

independent SERVICE CENTRE
ROTAX®
AIRCRAFT ENGINES

BRP

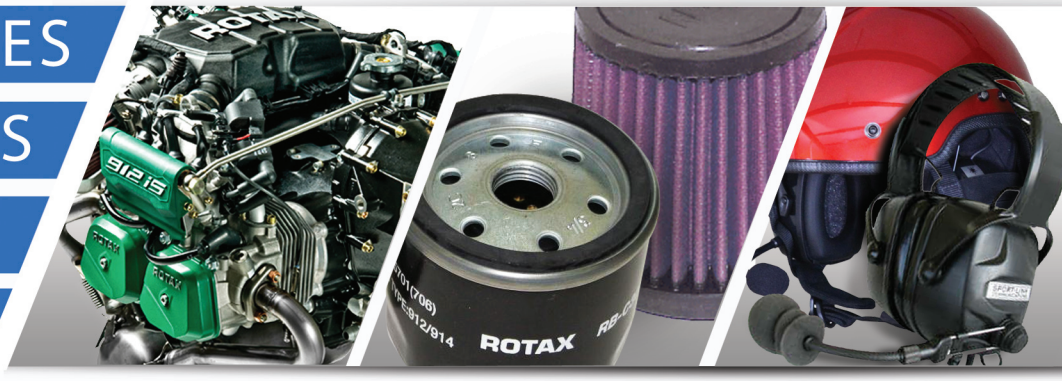
2013 CATALOG

SALES

PARTS

SERVICE

TRAINING





CALIFORNIA POWER SYSTEMS • CORONA, CA

TOLL FREE CUSTOMER SERVICE

Phone Customer Service **1-800-AIRWOLF**

Email Customer Service **info@800-airwolf.com**

When placing an order every customer is assigned a specific customer identification number. When following up on an order or placing a new order, it is very helpful if you can provide your assigned customer number for our reference. If the status of an order is required contact our Customer Service Dept. either by phone, fax or email giving the name under which the order was placed and the approximate date of the order. The more information you can provide our Customer Service agents the faster we will be able to locate your order and resolve any concern you may have. We pride ourselves on providing 100% Customer Satisfaction. You also have the convenience of checking order status online at www.800-airwolf.com.

OUR PRICING POLICY—THE LOWEST OVERALL PRICES IN THE BUSINESS

We take great pride in offering customers the lowest overall prices in the industry. We print our catalog only once a year and in the interim we receive many cost increases from the manufacturers we represent. Due to our competitive pricing policy we must pass many of these increases along in the form of price changes. We will ship at current prices unless customer requests notification of price changes prior to shipment. We will continue to do our best to minimize increases and offer all of our products at the best possible prices. All prices are subject to change without notice.

NOTE: Freight costs can vary greatly depending on actual package size,weight and the destination. Our Order Department has no way to accurately estimate freight at the time order is placed and California Power Systems will not be responsible for any additional freight costs on any shipment. All prices are FOB Corona, CA and customer is responsible for actual freight costs as billed on invoice or shipped freight collect. **All catalog and website prices are in U.S. dollars.**

5 EASY WAYS TO PAY

1) Credit Card - We accept payment on VISA, MasterCard, Discover and American Express. Credit card number, expiration date and billing address of the cardholder are required. In order to prevent credit card fraud, we reserve the right not to accept payment by credit card on orders for certain types of products as well as from those who are not established customers. We also reserve the right to approve shipment of credit card orders only to the address on the credit card account.

2) C.O.D. - Orders may be shipped COD via United Parcel Service within the United States. Please note some restriction may apply to COD shipments. A handling fee is added to all COD orders to cover special documentation required.

3) Check - Customers may choose to pay by check by mailing in their order and enclosing a check. Customers may call ahead of time for current pricing and freight estimates.

4) Bank Transfer - International customers may wish to pay by bank transfer. Contact us for bank information to arrange transfer of funds.

5) PayPal



HOW TO ORDER TOLL-FREE

Call the California Power Systems toll-free order line 1-800-AIRWOLF, servicing the continental United States and portions of Canada. We have an experienced order desk staff who are pleased to assist you with your order. You may also fax your order at 951-372-0555.

CONVENIENT ORDER DESK HOURS

Monday – Friday: 6:00AM to 6:00PM (Pacific Time)
Saturday: 7:00AM to 3:30PM (Pacific Time)

EASY ORDERING 24-HOURS A DAY

Communicating with us has never been easier. Place your orders, request quotations and submit your inquiries 24 hours a day by fax, e-mail or via the California Power Systems Website.

Fax: California Power Systems 951-372-0555
E-mail: info@800-airwolf.com
Internet: www.800-airwolf.com

SAME DAY SHIPMENT

We strive to ship all orders placed by 4:00 p.m. warehouse local time, the same day the order is placed. Our experienced staff can offer various shipping options that will insure delivery of the order within your time requirements. Freight charges are invoiced based upon the warehouse from which the order is shipped. Same day shipment can be guaranteed on in stock, off-the-shelf products and not on orders for wood, metals, foams, fabrics and other products requiring cutting, as well as special order items. Count on California Power Systems to provide immediate shipment of the aircraft parts or pilot supplies you need.

FREE SHIPPING ON ORDERS OVER $500.00

Most orders over $500.00, shipping within the 48 contiguous United States, will be shipped prepaid, with California Power Systems paying the shipping costs! This only applies to orders shipped UPS ground and which are more economical shipping by UPS than by motor freight. California Power Systems pays the freight, but any additional fees assessed by UPS (such as COD fees, hazardous materials, additional handling, etc) will be billed at time of shipment. Please refer to the UPS Service Guide for further details of additional charges that may apply. Orders that contain 5 gallon containers, cases of oil, and packages measuring more than 84 inches length and girth or 60 inches long are excluded. Core charges, hazardous materials fees, box charges, and insurance are not considered part of the $500.00 value of an order. Our Free shipping offer does apply to orders for tires and batteries! Please inquire at time of order for clarification on whether an order will qualify for the new prepaid policy. Our exclusive prepaid policy is one more advantage you have in placing your order with California Power Systems.

QUICK INDEX

A complete and detailed index can be found at the back of this book.

Welcome!



California Power Systems was founded in 1981 by Mike Stratman and has been the western U.S. regional Rotax Service Center for many years, offering Rotax engines, parts, and other ultra-light and LightSport products to aviators around the world. We acquired CPS in November 2011 and moved the company from San Leandro, CA to Corona, CA where CPS operates in a 62,000 sq. ft. facility. CPS also maintains a maintenance shop and a Rotax engine training facility nearby at Chino (CNO) Airport. Our family has been in the aircraft parts business for nearly 60 years, and we are pleased to offer this new 2013 edition of the CPS catalog. We look forward to serving you soon!

Jim & Nanci Irwin
California Power Systems

ORDER DESK HOURS (PST)
Mon. - Fri.: 5:00am - 6:00pm, Sat.: 7:00am–3:30pm

TOLL-FREE ORDER LINE / CUSTOMER SERVICE
1-800-AIR WOLF or 1-800-247-9653

SHOP ON-LINE
www.800-airwolf.com

225 Airport Circle, Corona, CA 92880-2527
Phone: (951) 549-7786 • Fax: (951) 372-0555

CUSTOMER SERVICE HOURS (Pacific Time)
Mon. thru Fri.: 5:00am–4:00pm • Saturday: 7:00am–3:30pm

STORE HOURS
Mon. thru Fri.: 8:00am–6:00pm • Saturday: 7:00am–3:00pm

CAN'T FIND WHAT YOU NEED? LET US HELP!

While we try to offer everything you might need for your aircraft, there are some products that you may not find listed in this catalog. Let us help! Just give our Sales Department a call on our Toll Free number and provide our Sales representative with as much information as possible on the parts you need. They will source the product for you and provide a quotation and lead time for the product as quickly as possible.

NOTICE! Many parts in this catalog are NOT FAA approved.
Unless our catalog specifically indicates a part has a PMA (Parts Manufacturers Approval), that part may not be certified or approved for aviation use. The selling of a part should not be construed as a representation that the part is certified or approved for aviation use, nor can California Power Systems. include instructions for use or warnings unless provided by the manufacturer or distributor. Any concerns the purchaser may have about the suitability of a part for aviation use, instructions for use or warnings, should be promptly directed to the manufacturer.

WAIVER OF LIABILITY AND INDEMNIFICATION AGREEMENT

In as much as California Power Systems has no opportunity to supervise the manufacture, installation or maintenance of the parts supplied by it, nor any opportunity to participate in the design or manufacture of the various certificated and homebuilt aircraft in which its parts are utilized, the purchaser by placing this order and accepting said merchandise from California Power Systems agrees that all materials purchased will be used solely at purchaser's risk and that purchaser will indemnify and hold California Power Systems, its owners and employees, free and harmless from all loss, liability or damage resulting from claims brought by reasons of any alleged failure or defect of any part or parts supplied by California Power Systems.

ROTAX ENGINES & PARTS – Pg. 3-83
Performance Graphs, 447 UL Engine, 503 UL Engine
582 UL Engine, 618 UL Engine, 912 / 914 Engine

ENGINE PARTS (EP) – Pg. 84-91
Magnetos, Carburetors, Starters, Generators, Alternators, Spark Plugs, Engines, Engine Mounts, Air & Oil Filters, Maintenance Items, Replacement Parts

AIRFRAME PARTS (AP) – Pg. 92-109
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TOOLS (TO) – Pg. 152
Test Equipment, Oil Can Cutters, Wire Twisters, Tire Gauges, Rivet Guns, Calipers

PILOT SUPPLIES (PS) – Pg. 153
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Instructional DVDs, Sport Pilot Log Books, Procedure Books

NAME: _____

CUSTOMER #: _____

CALIFORNIA POWER SYSTEMS
EXPERTS IN LIGHTSPORT AVIATION

ON THE COVER:
Photo Courtesy of Flight Design USA

THE CALIFORNIA POWER SYSTEMS CATALOG FREE ON REQUEST



We want all aviators to have access to the wide range of products and services offered by California Power Systems. Just give us a call on our toll free order line, send us a request for a catalog by fax, mail, or e-mail, and we'll have a complimentary copy of our catalog on the way to you the same day. Our catalog is also available on CD, or for download in pdf format at www.800-airwolf.com. If you know of someone who needs a catalog, please let us know.

Print Catalog ..... **FREE**

VISIT THE CALIFORNIA POWER SYSTEMS STORE



Stop by our store to view and purchase the many items listed in the California Power Systems catalog. The California Power Systems West store is open Monday thru Friday 8:00am to 6:00pm, and Saturday 7:00am to 3:00pm. Call the office ahead of time to place your order and we will have it ready for pick-up upon your arrival.

CALIFORNIA POWER SYSTEMS ONLINE



California Power Systems Online provides customers with up to the minute account and order status utilizing their own personal computers. The California Power Systems Web Site provides information on many of the products contained in this catalog, real time access to account information, open order status and filled order history available daily. Confirm order on line in real time as they are processed, and view backorder status and product availability. In addition, our partnership with UPS provides you with up to the minute shipping information including package status, scheduling, and delivery exception.

http://www.800-airwolf.com

PRODUCT WARRANTY

In cooperation with the manufacturers we represent, California Power Systems warrants for a period of one year (on most products) from the date of original purchase its products to be free from defects in material and workmanship. California Power Systems obligation under this warranty is limited to repair or replacement of the purchased product only, and under no circumstances shall California Power Systems be liable for any loss, damage, injury, cost of repair or consequential damages of any kind in connection with the sale, use or repair of any product purchased from California Power Systems Products sold are subject to manufacturer's warranty policy. Defective merchandise or out of box failure of product is repaired or replaced at manufacturer's option. Avionics, electrical, instruments, or similar products that are defective are subject to manufacturer's warranty only, and will not be replaced immediately from California Power Systems inventory.

WAIVER OF LIABILITY AND INDEMNIFICATION AGREEMENT

Inasmuch as California Power Systems has no opportunity to supervise the manufacture, installation or maintenance of the parts supplied by it, nor any opportunity to participate in the design or manufacture of the various certificated and homebuilt aircraft in which its parts are utilized, the purchaser by placing an order and accepting said merchandise from California Power Systems agrees that all materials purchased will be used solely at purchaser's risk and that purchaser will indemnify and hold California Power Systems, its owners and employees, free and harmless from all loss, liability or damage resulting from claims brought by any reason of any alleged failure or defect of any part or parts supplied by California Power Systems.

OUR BIODEGRADABLE PACKING PEANUTS

The packing "peanuts" that we use to fill product boxes for protection during shipping are 100% biodegradable, clean and hygienic, non-static, odorless, recyclable and non-polluting. They are a starch mixture made from potato or wheat and are water soluble; just dispose of them in the sink with water, hose them away, put in a garbage disposal, or flushed down a drain or toilet. They do not pollute groundwater. This material is the best we have found as an economical way to insure maximum protection of the contents of our shipping boxes.

CLOSING THE TRANSACTION

For our customer's convenience we enclose a copy of the invoice covering the order with each order shipped except those shipped to a third party.

If the order is paid by check and the check did not cover the full amount of the invoice, the amount of underpayment will be sent C.O.D. for the balance due plus C.O.D. fee of $10.50 rather than delay the order.

If you have overpaid by check, the overpayment will be credited to your account or refunded. C.O.D. shipments are considered "paid" as soon as we receive payment from UPS, and credit card orders are paid automatically at time of shipment. We look forward to your next order!

WHEN YOU RECEIVE YOUR ORDER

Upon receipt, the package should be opened promptly and material checked against the packing slip enclosed. Items out-of-stock at time of shipment will be marked as "back-ordered – to follow." These items will not be charged on the invoice enclosed with the package and will be forwarded as soon as delivery is received from our suppliers. The back-ordered items will not be charged until shipped. About 90% of the items featured in our catalog are carried in stock. Special items of hardware, bearings, unusual fittings and slow moving items are special ordered as required. However, even with the large inventory we carry, it is not uncommon to "come up short" on some items. If an item is missing and not marked "backordered", please advise us immediately by mail or call our Customer Service Dept.

BACKORDERS

Although we make every effort to ship all orders "complete," it is often necessary to backorder one or more items if we are out of stock. When the partial order is shipped and invoiced, you are not charged for the backordered item(s) until these items are shipped. You are billed only for what is shipped. A backorder is created and shipped as soon as the items arrive. The backorder is then invoiced and any overpayment from the first invoice is applied to it. If you do not wish to have any items backordered, or wish to cancel an existing backorder, just let us know. We will do so immediately if the backorder has not been shipped. We are working continuously to keep all items in stock to preclude backorders. If a backorder is necessary, we do appreciate your patience. California Power Systems pays the shipping costs within the 48 contiguous United States by surface shipping on backorders when the backordered items could have been shipped via UPS inside the first package at no additional freight cost. Except when the backordered items are oversize, hazardous, contain one gallon or larger, or COD shipments. We will continue to strive to maintain stock of all our products to keep the necessity for backordering parts to a minimum.

RETURNED MERCHANDISE

Merchandise may be returned for credit or refund within 30 days from date of purchase if received in resalable condition—packed in original manufacturer's box, complete with instructions and all components (if applicable). A copy of the original order showing purchase or information stating the invoice number and date of purchase, with reason for return must accompany the article. Do not mail purchase information in letter form under separate cover. Do not return any products C.O.D. as it cannot be accepted by our warehouse. All returns must be made to California Power Systems West in Corona, CA. Certain items may not be eligible for return (e.g. books, videos, DVDs software, special order items, cut materials, etc). Call first for a return authorization number and instructions to retun the product.

Call California Power Systems customer service for a RMA Number Before Returning any Product

DAMAGE OR SHORTAGE

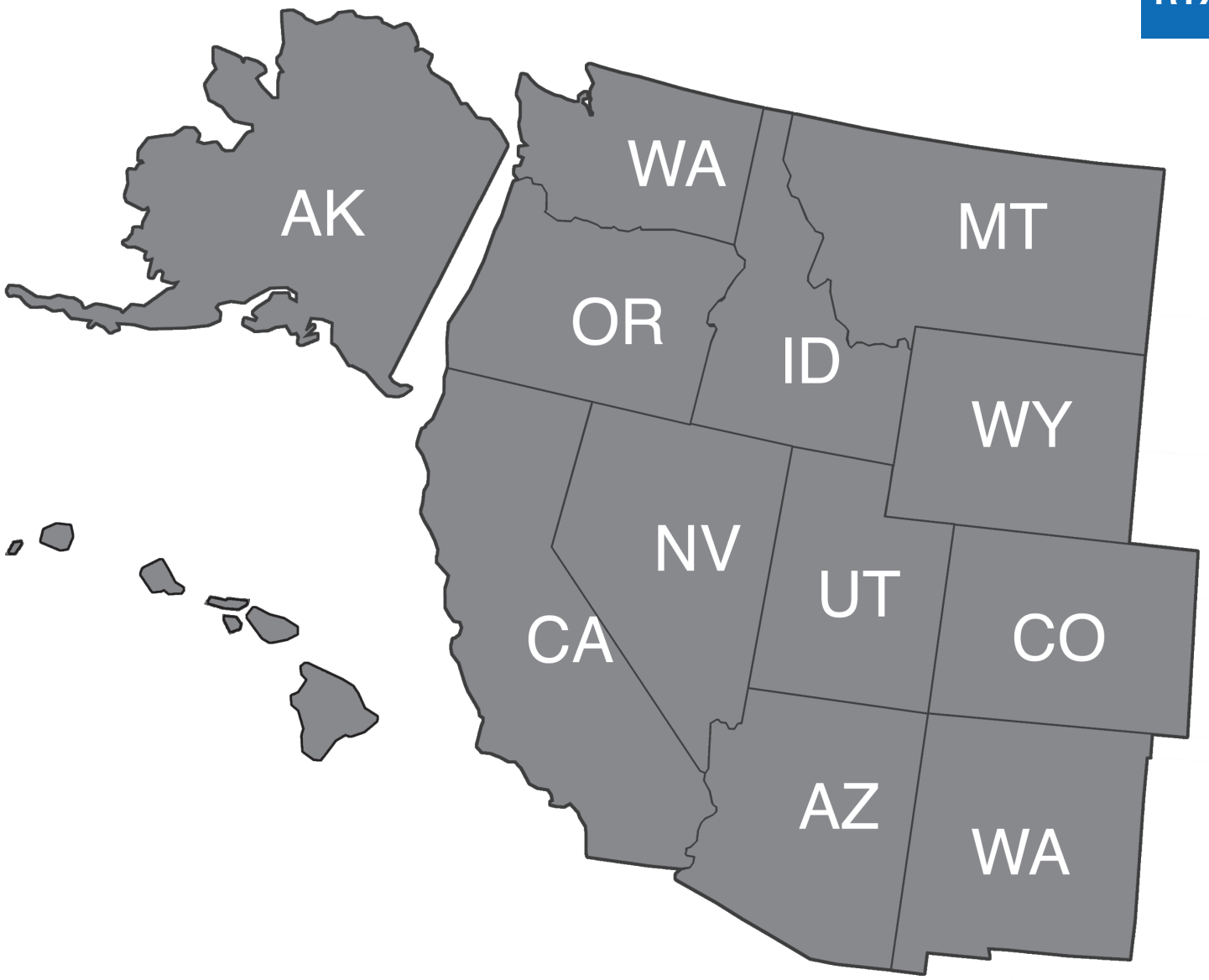
Open and examine all packages promptly. Notify the California Power Systems Customer Service Department of any discrepancies in the order. If the merchandise is received in damaged condition or the carrier fails to deliver the entire shipment as shown on the Bill of Lading covering motor freight delivery, make note of the damage or shortage on the Bill of Lading and ask the driver to sign it. Then call the terminal office of the carrier and institute a claim for the loss or damage. If a package delivered by UPS arrives damaged, report this to the driver immediately. UPS will issue a report on the damage to California Power Systems at which time a replacement shipment can be made.



CALIFORNIA POWER SYSTEMS WILL NOT BE UNDER SOLD!

California Power Systems works hard to bring you the lowest prices on every product we carry. If you have found a better price for an item at another authorized dealer, we will do everything possible to **beat** that price. Our Lowest Price Guaranteed is only applicable to identical conditions of sale. The item must be in stock at the other authorized dealer (not a floor sample, "open box" item, refurbished or demo piece). This offer applies to new purchases only.

iRC REPAIR CENTRES



California Power Systems can supply all the parts you require worldwide. However, if you need service in the Western United States we manage a network of ROTAX factory trained technicians, or Independent Repair Centers (iRC). To find a local certified technician, please visit our website at **www.800-airwolf.com/cpsrepairstations**, or call our technical support line 951-549-7786.

ROTAX FACTORY APPROVED TRAINING COURSES:

CPS holds classes throughout the year at our facility in Chino California, for more information about the classes and the current schedule visit www.800-airwolf.com/classes.

HOW TO BECOME AN INDEPENDENT REPAIR CENTER:

For information about becoming a certified ROTAX iRC or trained technician, contact Kevin Kane at 800-247-9653 x302, or kevinkane@cps-parts.com.

ROTAX OVERHAUL SERVICES

RTX

582 UL ENGINES

2 Stroke Engines					
Engine	**CPS PN**	**Price**	**Exhaust**	**Carburetors**	**Gearbox**
582UL w/ Sidemount Exhaust	15-08209-1	**$5,348.00**	881-636	2	Not included with purchase of engine,
582UL w/ Straight Exhaust	15-08209-2	**$5,348.00**	881-631	2	choose from B, C, or E. Each gearbox has
582UL w/ 90° (Eipper Exhaust)	15-08209-3	**$5,348.00**	881-634	2	multiple gear ratios to choose from.

B-Gearbox	CPS PN	Price
1:2.00	15-07767	**$944.00**
1:2.24	15-07774	**$1,019.52**
1:2.58	15-05343	**$943.95**

C-Gearbox	CPS PN	PRICE
1:2.62	15-07811	**$1,499.00**
1:3.00	15-07812	**$1,499.00**
1:3.47	15-07813	**$1,499.00**
1:4.00	15-07814	**$1,499.00**

E-Gearbox	CPS PN	PRICE
1:2.62	15-07815	**$2,138.00**
1:3.00	15-07816	**$2,140.00**
1:3.47	15-07817	**$2,140.00**
1:4.00	15-07818	**$2,140.00**

912 / 914 UL ENGINES

Engine	CPS PN	Price	Exhaust	Carburetors	Gearbox	Expansion Tank	Oil Tank	CHT Sensors	Oil Temp Sensor	Oil Press Sensor	Ring Mount
912UL, 80 Horsepower	15-07717	**$16,710.00**	No	Yes	Yes, 2.27:1, w/o Clutch	Yes	Yes	2	1	1	No
912ULS, 100 Horsepower	15-07722	**$18,578.00**	No	Yes	Yes, 2.43:1 with Clutch	Yes	Yes	2	1	1	No
912iS, 100 Horsepower Fuel Injected	15-08253	**$24,958.00**	Yes	Fuel Injected	Yes, 2.43:1 with Clutch	Yes	Yes	4	1	1	Yes
914UL, 115 Horsepower, Turbocharged	15-07723	**$31,679.00**	Yes	Yes	Yes, 2.43:1 with Clutch	Yes	Yes	2	1	1	Yes

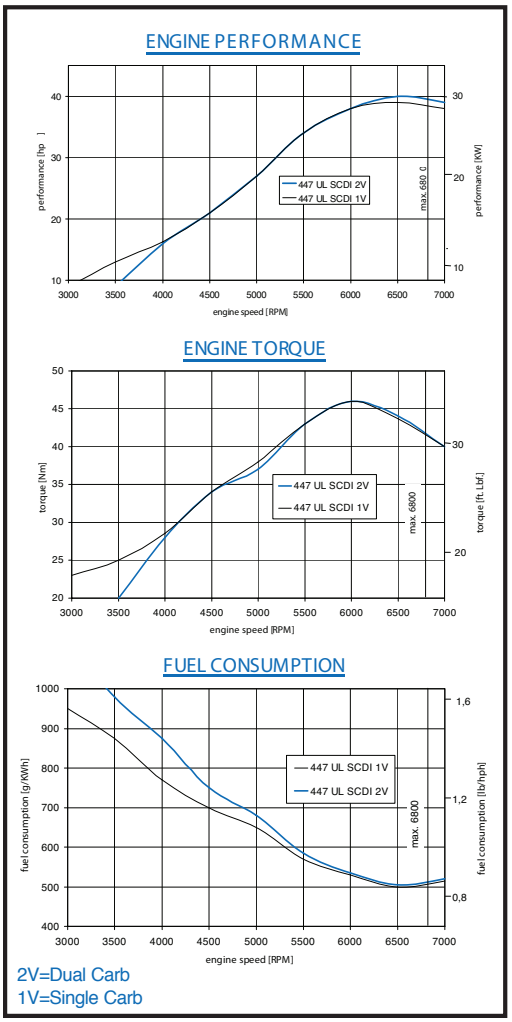
OVERHAUL SERVICES

	150 Hour Inspection			300 Hour Overhaul			
	Gasket Set	Labor	Estimated Total Cost	Gasket Set	Crankshaft Assembly	Labor	Estimated Total Cost
447UL	994-869 **$167.95**	7 Hours **$689.50**	**$856.99**	994-869 **$167.95**	887-380 **$1,092.38**	7 Hours **$689.50**	**$1,949.37**
503UL	994-236 **$178.01**	7 Hours **$689.50**	**$867.51**	994-236 **$178.01**	996-441 **$984.31**	7 Hours **$689.50**	**$1,851.82**
582UL/90	886-230 **$259.00**	8 Hours **$788.00**	**$1,055.21**	886-230 **$259.00**	887-051 **$1,413.83**	8 Hours **$788.00**	**$2,469.04**
582UL/99	886-232 **$310.13**	8 Hours **$788.00**	**$1,098.13**	886-232 **$310.13**	887-051 **$1,413.83**	8 Hours **$788.00**	**$2,511.96**
618UL	886-238 **$347.09**	9 Hours **$886.50**	**$1,233.59**	886-238 **$347.09**	886-631 **$1,419.69**	9 Hours **$886.50**	**$2,653.28**

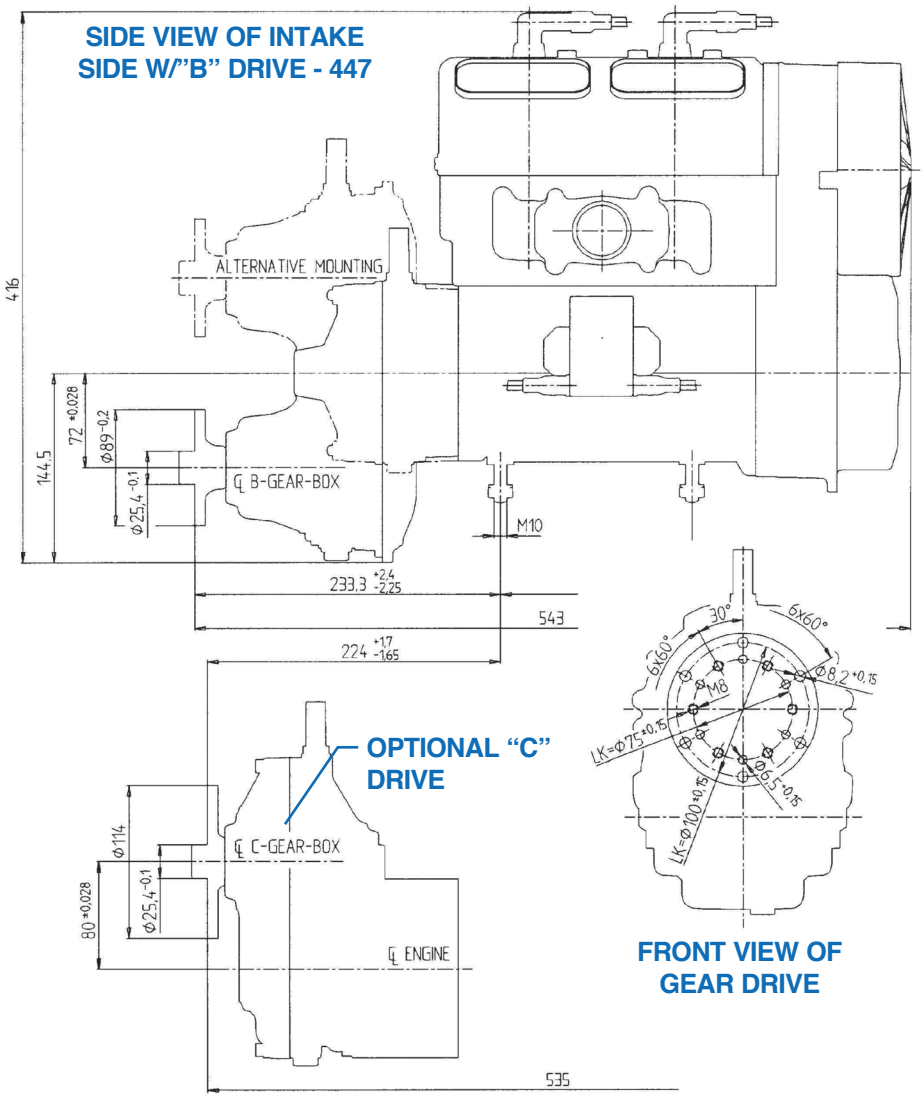
PISTONS AND CYLINDERS

	Nominal			1st Overside Boring			2nd Overside Boring			Re-Sleeve Service
	Piston w/ Rings	Cylinder		Piston w/ Rings	Cylinder		Piston w/ Rings	Cylinder		Nominal Only
447UL	67.450mm	67.505mm		67.700mm	67.755mm		67.950mm	68.005mm	68.005mm	67.450mm
	886-050	823-908 (PTO)	823-899 (MAG)	886-051	9737 (PTO)	9739 (MAG)	886-052	9738 (PTO)	9740 (MAG)	9711 (PTO) 9709 (MAG)
	$273.33	**$662.86**	**$662.86**	**$286.99**	**$662.86**	**$662.86**	**$286.99**	**$662.86**	**$662.86**	**$375.00**
503UL	71.930mm	72.005mm		72.180mm	72.255mm		72.430mm	72.505mm		76.005mm
	996-245	923-010		996-246	9741		996-247	9742		9713
	$200.47	**$733.16**		**$212.38**	**$7.95**		**$212.38**			**$375.00**
582UL /90	75.94mm	76.005mm		76.19mm	76.255mm		76.44mm	76.505mm		76.005mm
	888-590	913-448		888-591	9743		888-592	9749		9717
	$210.95	**$1,206.30**		**$226.74**	**$99.50**		**$226.74**	**$99.50**		**$402.00**
582UL /99	75.94mm	76.005mm		76.19mm	76.265mm		76.44mm	76.515mm		76.005mm
	888-590	913-448		888-591	9743		888-592	9749		9717
	$210.95	**$1,206.30**		**$226.74**	**$99.50**		**$226.74**	**$99.50**		**$402.00**
618UL	75.94mm	76.005mm		76.19mm	76.265mm		**2nd Oversize Not Permited on 618UL**			76.005mm
	888-590	913-440		888-591	9745					9718
	$210.95	**CALL***		**$226.74**	**$6.95**					**$402.00**

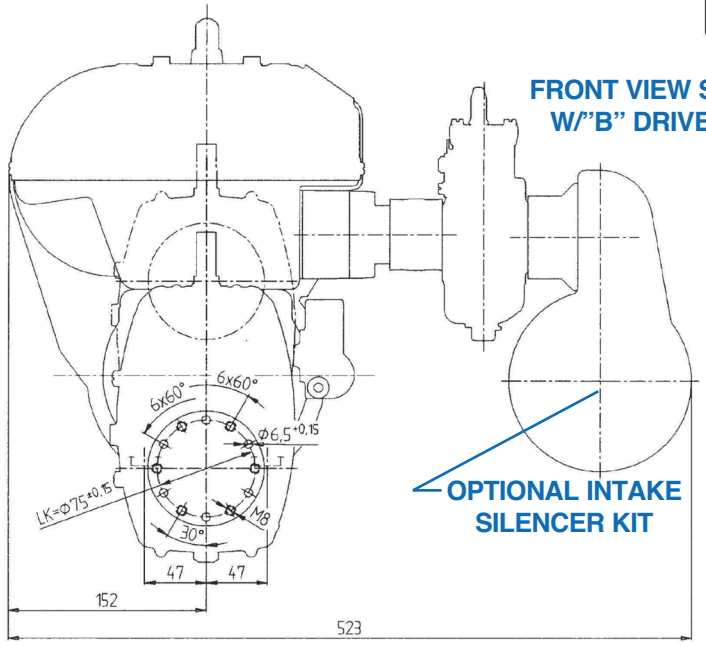
PERFORMANCE GRAPHS



2V=Dual Carb
1V=Single Carb



FRONT VIEW OF GEAR DRIVE



FRONT VIEW SHOWN W/"B" DRIVE - 447

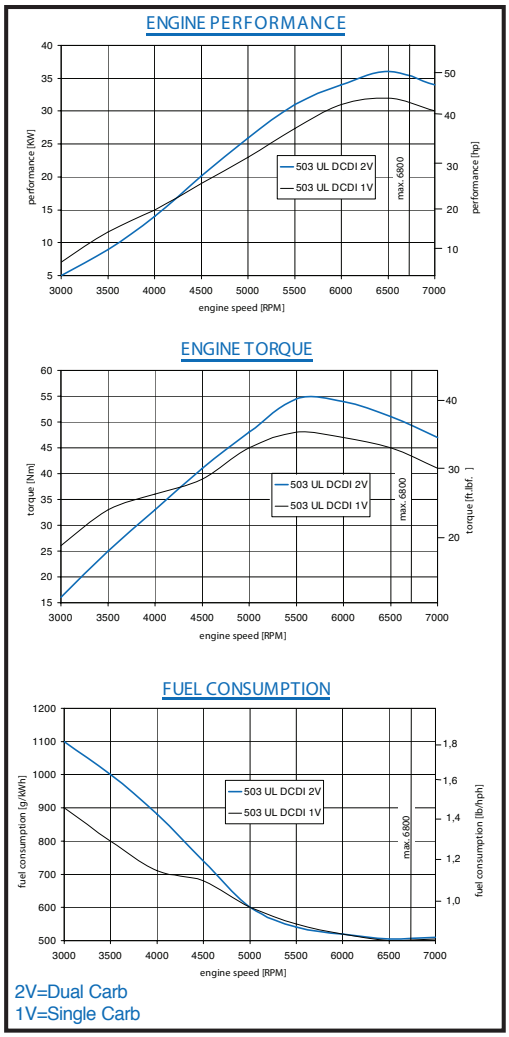
OPTIONAL INTAKE SILENCER KIT

ALL DIMENSIONS ARE IN MM.

THE 447 ROTAX ENGINE IS NO LONGER AVAILABLE, HOWEVER ROTAX WILL CONTINUE TO MANUFACTURE PARTS FOR THIS ENGINE.

VERSION	PERFORMANCE			TORQUE			MAX RPM
	kW	HP	RPM	Nm	ft. lb.	RPM	RPM
447 UL-SCDI single carb	29.5	39.6	6500	46	34.0	6000	6800
447 UL-SCDI dual carb	31.0	41.6	6500	47	34.7	6000	6800

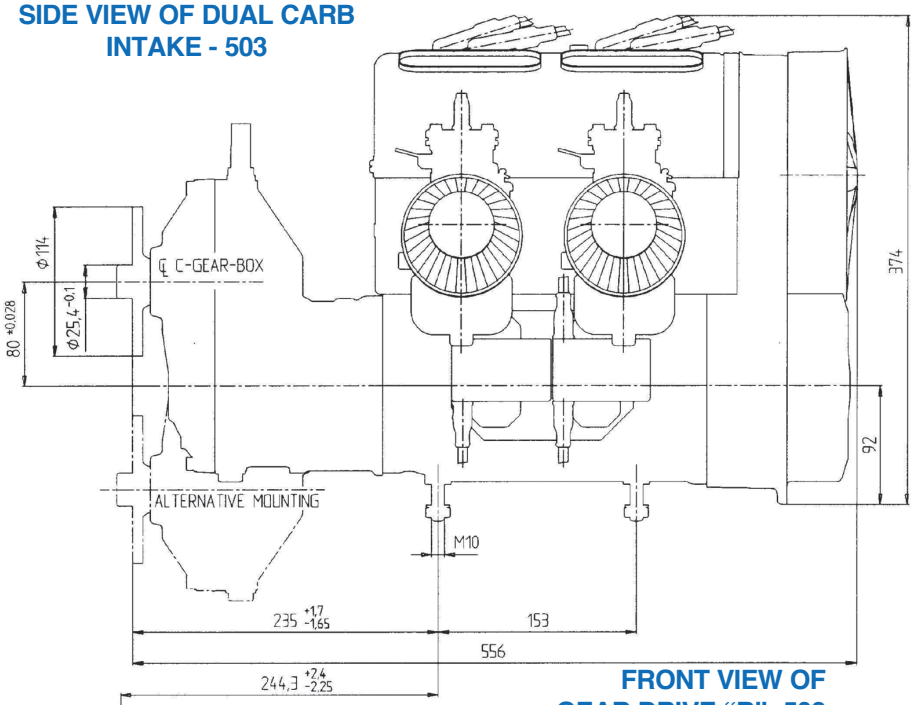
BORE		STROKE		DISPLACEMENT	DISPLACEMENT		
67.5 mm	2.66 in	61 mm	2.40 in	436.5 cm^3	26.64 cu. in.	th: 9.6	ef: 6.3



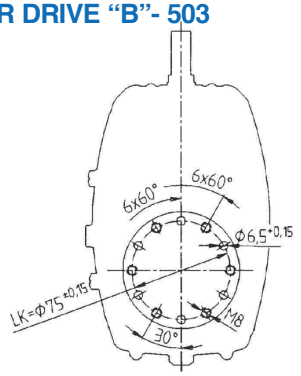
2V=Dual Carb
1V=Single Carb

PERFORMANCE GRAPHS

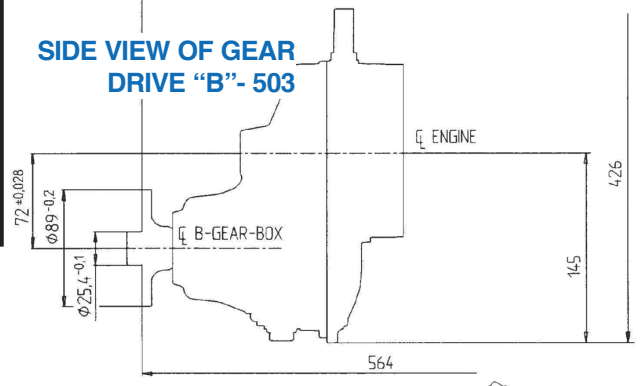
SIDE VIEW OF DUAL CARB INTAKE - 503



FRONT VIEW OF GEAR DRIVE "B"- 503

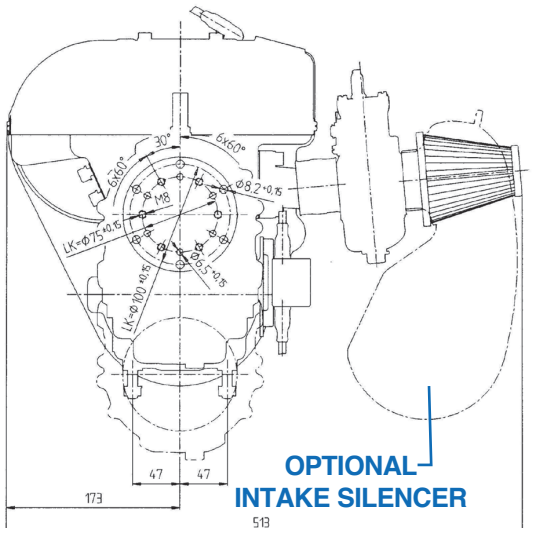


SIDE VIEW OF GEAR DRIVE "B"- 503



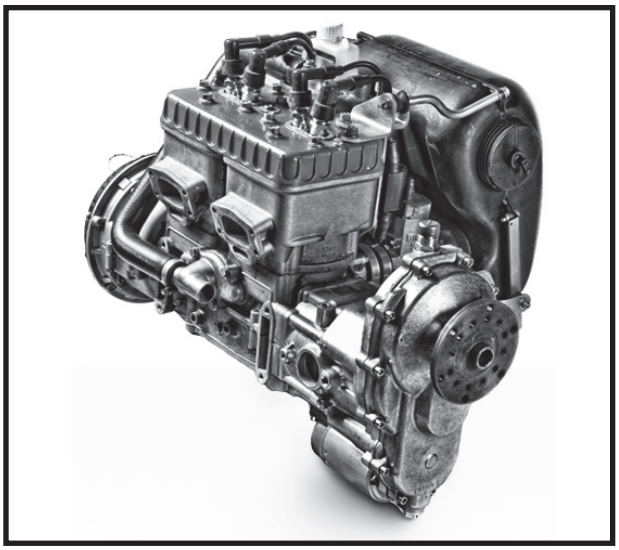
THE 503 ROTAX ENGINE IS NO LONGER AVAILABLE, HOWEVER ROTAX WILL CONTINUE TO MANUFACTURE PARTS FOR THIS ENGINE.

ALL DIMENSIONS ARE IN MM.



VERSION	PERFORMANCE			TORQUE			MAX RPM
	kW	HP	RPM	Nm	ft. lb.	RPM	RPM
503 UL-DCDI single carb	34.0	45.6	6500	51	37.6	6000	6800
503 UL-DCDI dual carb	37.0	49.6	6500	56	41.3	6000	6800

BORE		STROKE		DISPLACEMENT	DISPLACEMENT		
72 mm	2.84 in	61 mm	2.40 in	496.7 cm³	30.31 cu. in.	th: 10.8	ef: 6.2



582 UL DCDI ENGINE

DESCRIPTION

- 2-cylinder
- 2-stroke liquid cooled engine with rotary valve intake
- dual electronic ignition
- integrated water pump and thermostat
- exhaust system
- carburetors

582UL w/ Sidemount Exhaust **$5,348.00**
582UL w/ Straight Exhaust **$5,348.00**
582UL w/ 90° (Eipper Exhaust) ... **$5,348.00**

FACTS

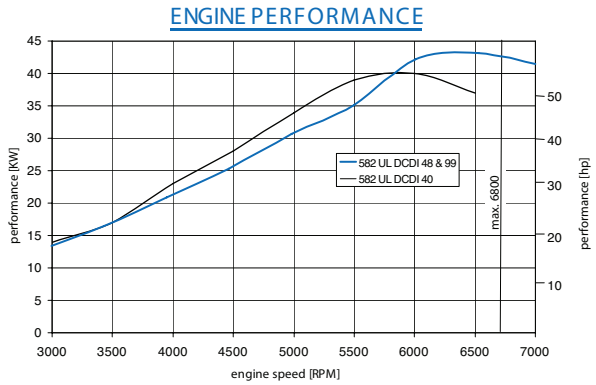
Over 30.000 units of this popular Rotax 2-stroke engine have been sold. This engine type is well regarded for its easy maintenance and robustness.

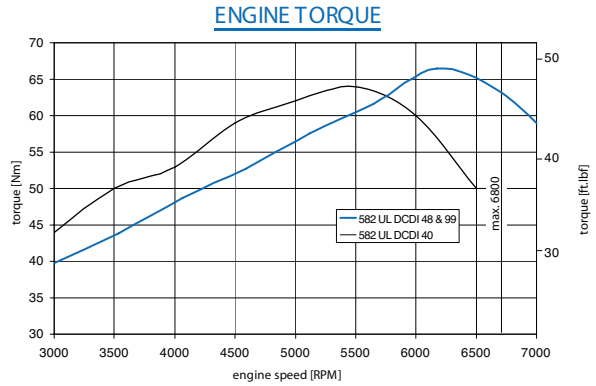
VERSION	PERFORMANCE			TORQUE			MAX RPM
kW ft. lb. 1/min 582 Mod. 99	kW 48	ft. lb. 65	1/min 6500	Nm 75	ft. lb. 55.3	1/min 6000	1/min 6800

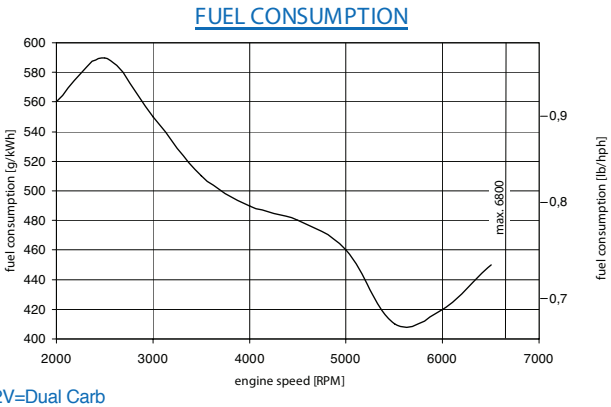
BORE		STROKE		DISPLACEMENT	
76 mm	2.99 in	64 mm	2.52 in	580 cm³	35.4 cu. in.

FUEL	2 SUPER STROKE - MOTOROIL	MIXING RATIO
min. MON 83 RON 91* min. AKI 87*	I-TC-Classification	1:50 or optional with fresh oil pump

* leaded, unleaded, AVGAS 100LL or Ethanol 10



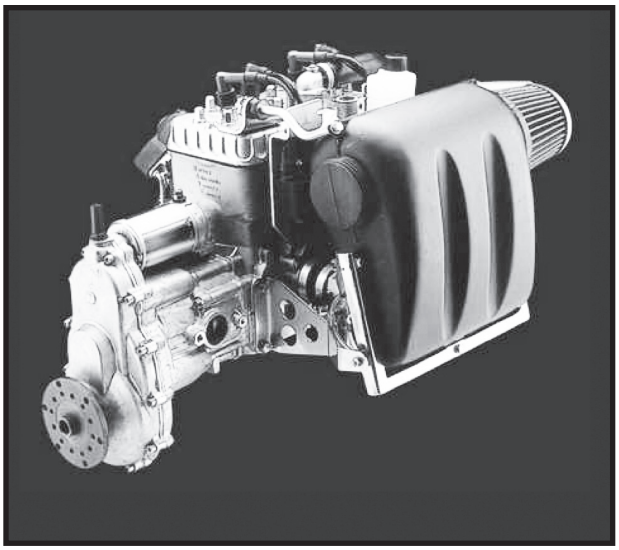




2V=Dual Carb
1V=Single Carb

PERFORMANCE GRAPHS

WEIGHT	kg	lb
engine	29.1	64.0
2 carburetors	1.8	4.0
exhaust system	5.1	11.2
electric starter	3.5	7.7
propeller speed reduction unit “B“ / i = 2.58	4.5	9.9
propeller speed reduction unit “C“ / i = 2.62/3.0/3.47/4.0	8.0	17.6
propeller speed reduction unit “E“ / i = 2.62/3.0/3.47/4.0	11.2	24.7



618 UL DCDI ENGINE

DESCRIPTION

- 2-cylinder
- 2-stroke liquid cooled engine with rotary valve intake
- dual electronic ignition
- integrated water pump and thermostat
- exhaust system
- carburetors

FACTS

Over 30.000 units of this popular Rotax 2-stroke engine have been sold. This engine type is well regarded for its easy maintenance and robustness.

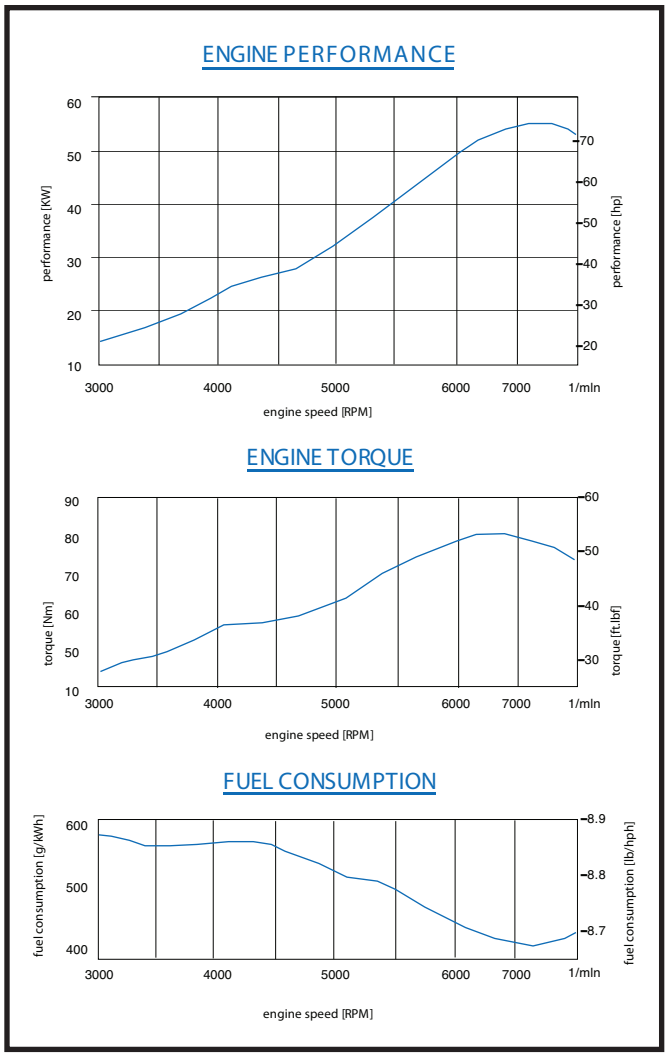
THE 618 ROTAX ENGINE IS NO LONGER AVAILABLE, HOWEVER ROTAX WILL CONTINUE TO MANUFACTURE PARTS FOR THIS ENGINE.

VERSION	PERFORMANCE			TORQUE			MAX RPM
kW ft. lb. 1/min 582 Mod. 99	kW 48	ft. lb. 65	1/min 6500	Nm 75	ft. lb. 55.3	1/min 6000	1/min 6800

BORE		STROKE		DISPLACEMENT	
76 mm	2.99 in	64 mm	2.52 in	580 cm^3	35.4 cu. in.

FUEL	2 SUPER STROKE - MOTOROIL	MIXING RATIO
min. MON 83 RON 91* min. AKI 87*	API-TC-Classification	1:50 or optional with fresh oil pump

* leaded, unleaded, AVGAS 100LL or Ethanol 10



PERFORMANCE GRAPHS

WEIGHT	kg	lb
engine	29.1	64.0
2 carburetors	1.8	4.0
exhaust system	5.1	11.2
electric starter	3.5	7.7
propeller speed reduction unit “B“ / i = 2.58	4.5	9.9
propeller speed reduction unit “C“ / i = 2.62/3.0/3.47/4.0	8.0	17.6
propeller speed reduction unit “E“ / i = 2.62/3.0/3.47/4.0	11.2	24.7

- Generally the fasteners on a ROTAX® engine are tightened with a torque wrench. Please look up the proper torque value in the appropriate maintenance manual.
- Each screw connection which has to be secured additionally (i.e. LOCTITE) is marked with a drop and symbol that corresponds to a list on each illustration. See fig. 1
- If safety wire is required it will be listed as a part number in the illustration.
- If the quantity is in brackets it indicates that the part is not absolutely necessary but optional on the respective engine type. See fig. 2
- A small letter added to the number refers to information at the end of the section. See fig. 2
- No number in the column parts per assembly indicates that this part is not planned for the respective engine.

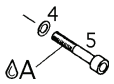


Fig. 1

Explanations of symbols and statements in part number charts:

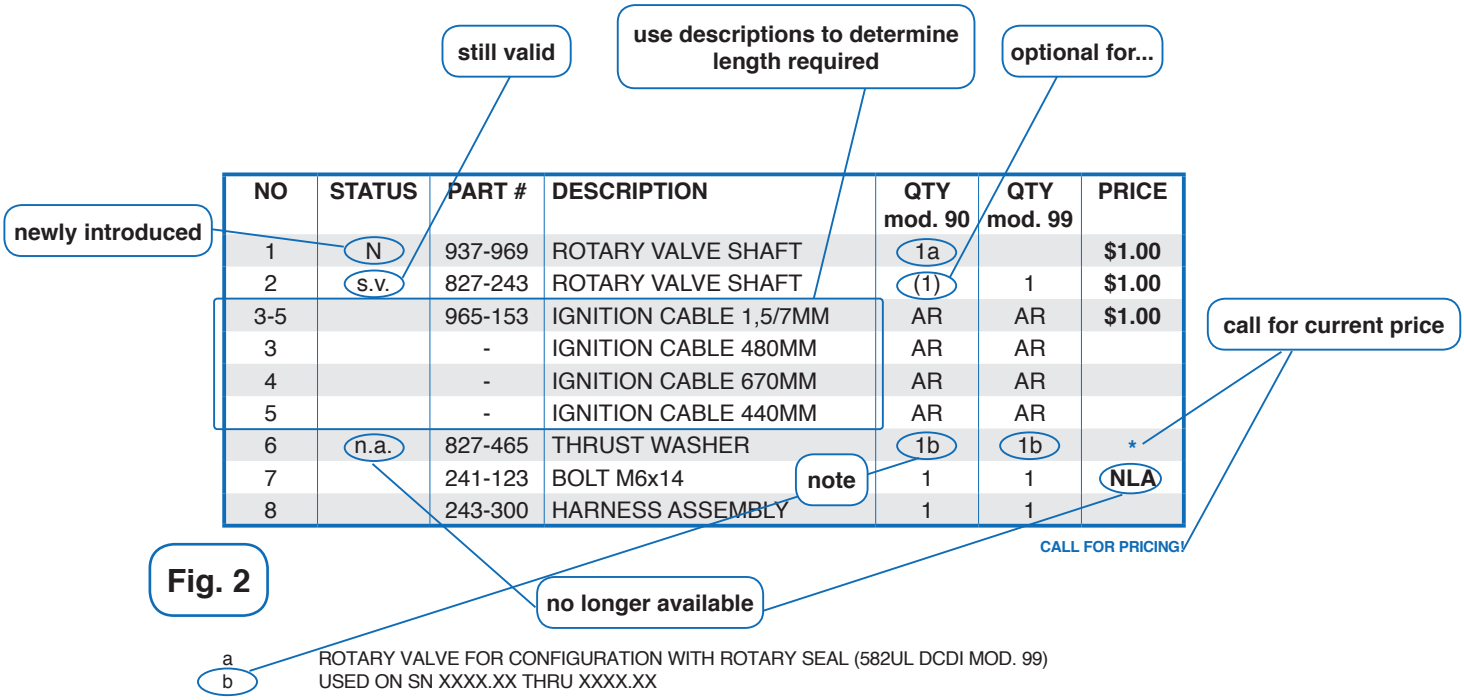
N = Newly introduced part.

s.v. = Still valid. Part was replaced by compatible component and can not be supplied any longer by the producer. Existing stock may be used.

AR = As required. This generally refers to shims, hose, wires, and cable. Measure the amount you need before ordering. Many times there will be multiple listings of different lengths with the same part number. Use the individual part descriptions to determine the proper length needed.

n.a. or NLA = No longer available, no replacement from Rotax. Part is no longer available due to incompatibility to current production or unavailability of part.

CALL = Please call for price, **800-247-9653**.



NO	STATUS	PART #	DESCRIPTION	QTY mod. 90	QTY mod. 99	PRICE
1	N	937-969	ROTARY VALVE SHAFT	1a		$1.00
2	s.v.	827-243	ROTARY VALVE SHAFT	(1)	1	$1.00
3-5		965-153	IGNITION CABLE 1,5/7MM	AR	AR	$1.00
3		-	IGNITION CABLE 480MM	AR	AR	
4		-	IGNITION CABLE 670MM	AR	AR	
5		-	IGNITION CABLE 440MM	AR	AR	
6	n.a.	827-465	THRUST WASHER	1b	1b	*
7		241-123	BOLT M6x14	1	1	NLA
8		243-300	HARNESS ASSEMBLY	1	1	

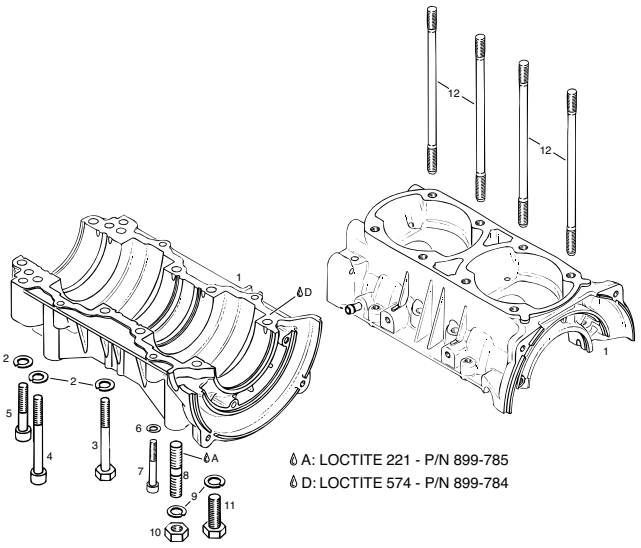
Fig. 2

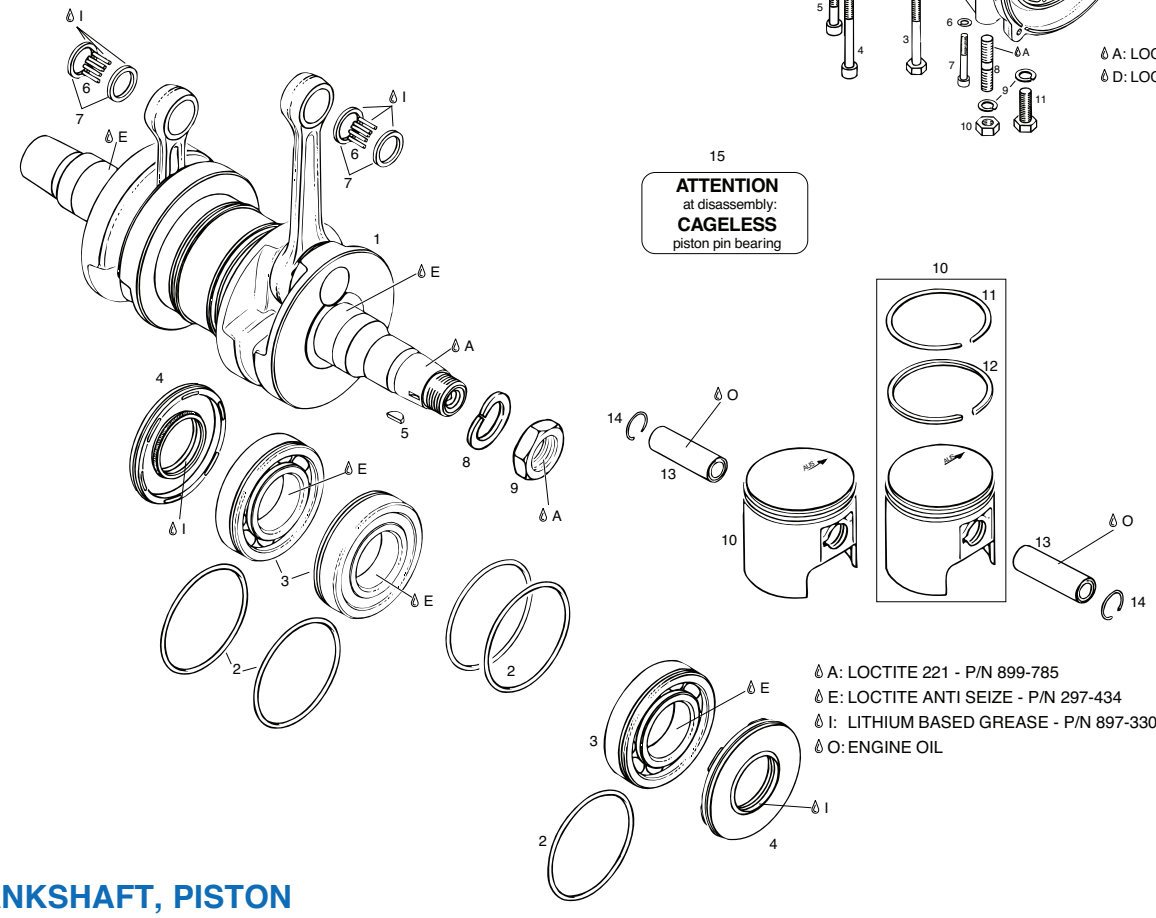
a ROTARY VALVE FOR CONFIGURATION WITH ROTARY SEAL (582UL DCDI MOD. 99)
b USED ON SN XXXX.XX THRU XXXX.XX

THE ILLUSTRATIONS IN THIS PARTS CATALOG ARE DUPLICATED FROM THE CURRENT ROTAX© MANUALS AT THE TIME OF PRINTING AND ARE INTENDED FOR REFERENCE ONLY. THIS CATALOG IS NOT TO BE USED AS AN INSTRUCTION GUIDE FOR MAINTENANCE, ASSEMBLY, OR REPAIR TO ANY AIRCRAFT OR AIRCRAFT COMPONENT. PLEASE ENSURE YOU ARE USING THE MOST RECENT ROTAX© MANUALS BY VISITING OUR WEBSITE AT **www.800-airwolf.com/enginemanuals.html**.

CRANKCASE

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1-7		887-786	CRANKCASE ASSY.	1	$1,015.72
2		945-752	LOCK WASHER A8	10	$0.18
3		841-201	HEX. SCREW M8X70	6	$2.62
4		841-831	ALLEN SCREW M8X75	2	$3.15
5		640-611	ALLEN SCREW M8X45	2	$1.71
6		945-751	LOCK WASHER A6 DIN 128	4	$0.16
7		241-816	ALLEN SCREW M6X40 DIN 912	4	$1.34
8		940-190	STUD M10X29/20	4	$4.54
8		840-290	STUD M10X18/18	4	$4.38
8		940-190	STUD M10X29/20	4	$4.54
9		945-753	LOCK WASHER A10	4	$0.27
10		242-091	HEX.NUT M10	4	$1.18
11		940-326	HEX. SCREW M10X30	4	$1.87
12		841-149	STUD M8X167	8	$17.33



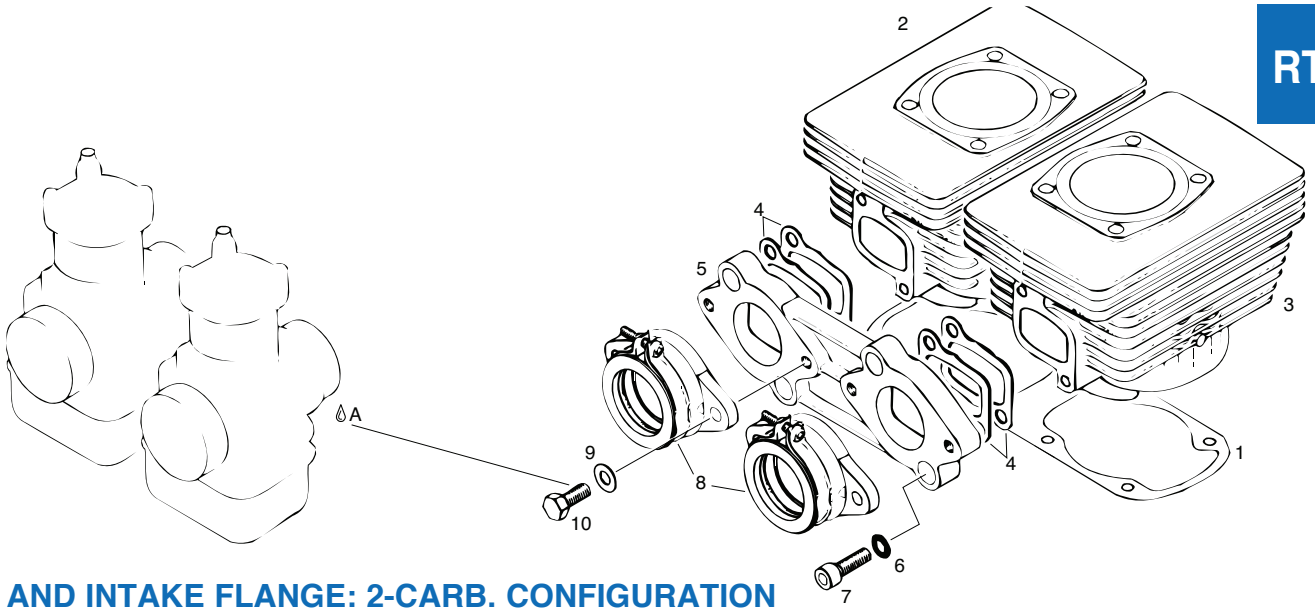


CRANKSHAFT, PISTON

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1-7		887-380	CRANKSHAFT ASSY.,	1	$1,092.38
2		250-165	O-RING 64-2	5	$5.09
3		832-231	B. BEARING 6207N TNH C3 35-72-17	3	$79.38
4		831-950	OIL SEAL 35X72X7/8,5	2	$37.50
5		246-055	WOODRUFF KEY 3X3,7 DIN 6888	1	$3.54
6-7		832-325	CAGEL. NEEDLE BEARING 18X22X21,8	2	$50.24
7	N.A.	827-465	THRUST WASHER 18/21,7/2,5	4	$13.47
8		945-759	LOCK WASHER 22	1	$1.68
9		842-239	HEX. NUT M22X1,5	1	$12.25
10-12		886-050	PISTON ASSY. 67,45/67,46 MM	2a	$273.33
10-12		886-051	PISTON ASSY. 67,70/67,71	2b	$286.99

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
10-12		886-052	PISTON ASSY., 67,95/67,96 MM	2c	$286.99
11		915-960	RECTANGULAR RING 67,5 MM	2d	$58.62
11		915-961	RECTANGULAR RING 67,75 MM	2e	$64.97
11		915-962	RECTANGULAR RING 68,0 MM	2f	$64.97
12		915-845	SEMI-TAPEZ RING 67,5 MM	2d	$79.38
12		915-846	SEMI-TRAPEZ RING 67,75 MM	2e	$85.73
12		915-847	SEMI-TRAPEZ RING 68,0 DIA.	2f	$85.73
13		916-136	PISTON PIN 18X11X53,7	2	$45.85
14		945-735	CIRCLIP 18	2g	$0.48
15		897-280	CAGELESS-LABEL	2	$1.68

a WITH 2 RINGS, STANDARD RED 67,45 MM / GREEN 67,46 MM
b WITH 2 RINGS, 1ST OVERSIZE RED 67,70 MM / GREEN 67,71 MM
c WITH 2 RINGS, 2ND OVERSIZE RED 67,95 MM / GREEN 67,96 MM
d STANDARD SIZE
e 1ST OVERSIZE
f 2ND OVERSIZE
g NOTICE USE ONLY ONCE!



CYLINDER AND INTAKE FLANGE: 2-CARB. CONFIGURATION

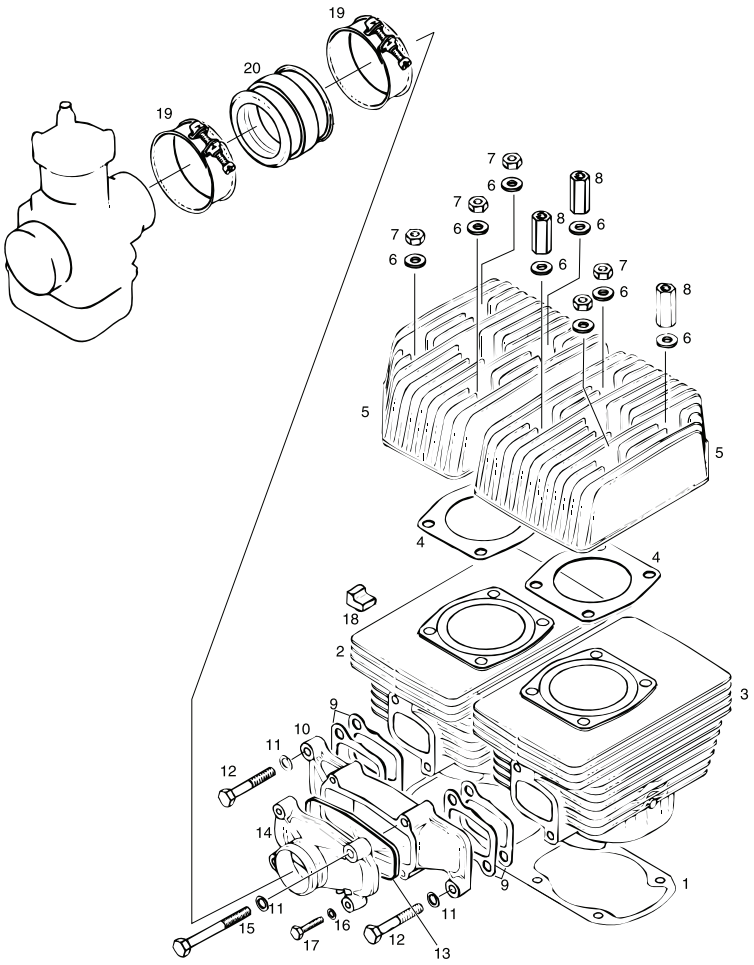
NO	STATUS	PART #	DESCRIPTION	QTY	PRICE	NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		430-351	DOUBLE GASKET 0,4 MM	1	**$8.01**	6	N.A.	845-085	FRICTION WASHER VS8	4	**$0.71**
2	N	823-899	CYLINDER WITH SLEEVE,P.T.O. SIDE	1ab	**$662.86**	7		240-081	ALLEN SCREW M8X25 DIN 912	4	**$1.18**
3	N	823-908	CYLINDER WITH SLEEVE, MAGN. SIDE	1ac	**$662.86**	8	N	867-389	CARBURETOR SOCKET ASSY.,	2	**$108.00**
4		831-866	INTAKE GASKET 1,0 MM	4	**$5.98**	9		250-311	WASHER 8,4 DIN 125	4	**$0.39**
5		867-610	INTAKE FLANGE	1	**$301.23**	10		940-591	HEX.SCREW M8X20	4	**$1.16**

a RED 67,50 MM - 67,51 MM
GREEN 67,51 MM - 67,52 MM
b CYLINDER P.T.O SIDE.
c CYLINDER MAGNETO-SIDE.

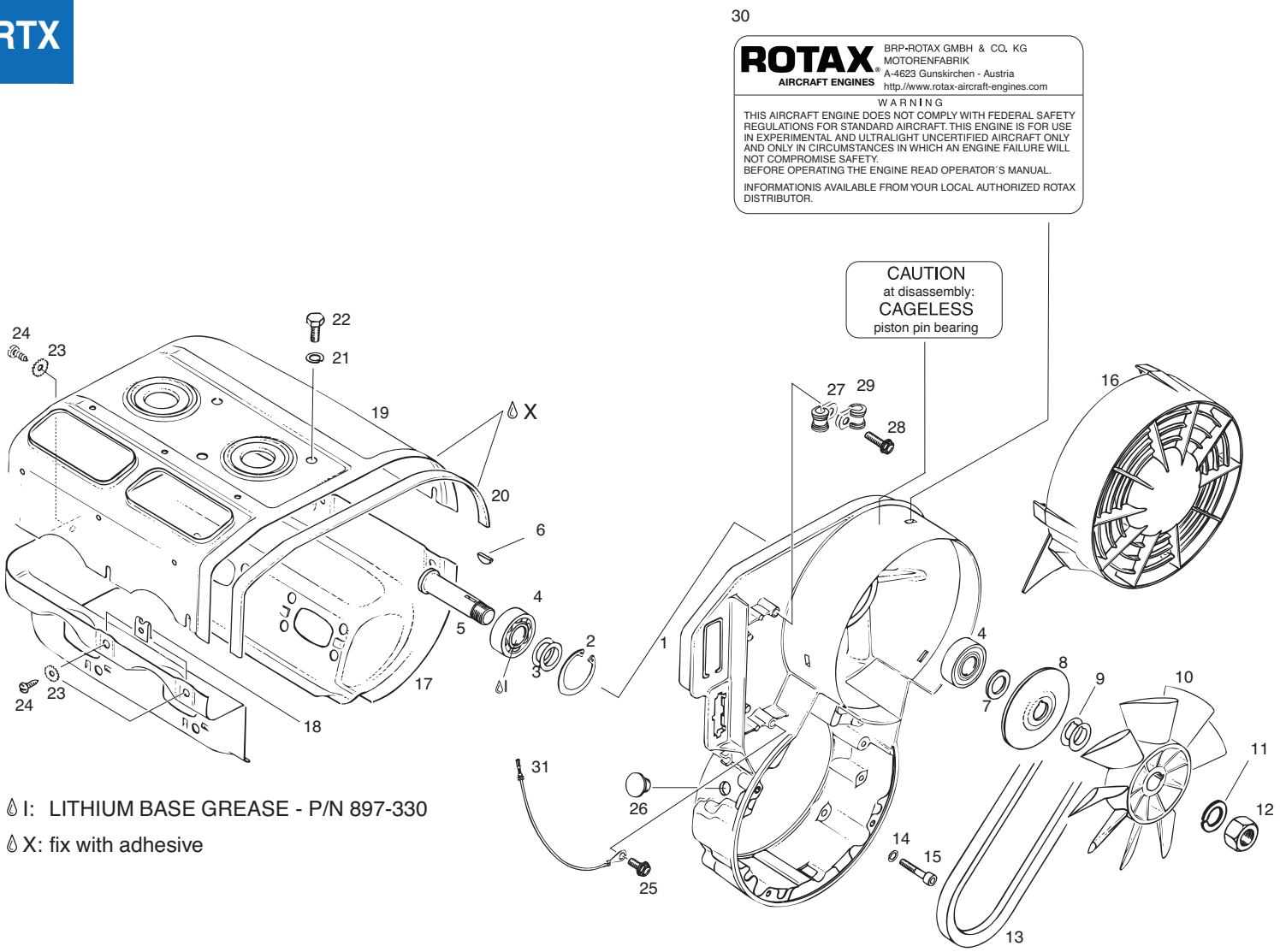
CYLINDER, CYLINDER HEAD AND INTAKE MANIFOLD: 1-CARB. CONFIGURATION

a RED 67,50 MM - 67,51 MM
GREEN 67,51 MM - 67,52 MM
b CYLINDER P.T.O SIDE.
c CYLINDER MAGNETO-SIDE.

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		430-351	DOUBLE GASKET 0,4 MM	1	**$8.01**
2		823-899	CYLINDER WITH SLEEVE,P.T.O. SIDE	1ab	**$662.86**
3		823-908	CYLINDER WITH SLEEVE, MAGN. SIDE	1ac	**$662.86**
4		850-136	GASKET	2	**$10.30**
5		823-828	CYLINDER HEAD	2	**$222.39**
6		250-311	WASHER 8,4 DIN 125	8	**$0.39**
7		242-209	HEX. NUT M8 DIN 934	5	**$0.53**
8		242-660	DISTANCE NUT M8X33	3	**$6.71**
9		831-866	INTAKE GASKET 1,0 MM	4	**$5.98**
10		867-435	INTAKE MANIFOLD ASSY.	1	**$112.50**
11		945-752	LOCK WASHER A8	4	**$0.18**
12		940-616	HEX. SCREW M8X40	2	**$1.52**
13		850-190	RUBBER RING 78X1,5X3,5	1	**$3.34**
14		867-445	INTAKE COVER	1	**$86.84**
15		841-311	HEX. SCREW M8X75	2	**$2.81**
16		945-751	LOCK WASHER A6 DIN 128	2	**$0.16**
17		240-036	HEX. SCREW M6X25 DIN 933	2	**$0.81**
18		860-060	SUPPORT DAMPER	1	**$2.81**
19		951-510	HOSE CLAMP 52	2	**$10.30**
20		867-484	RUBBER SOCKET	1	**$35.50**



RTX

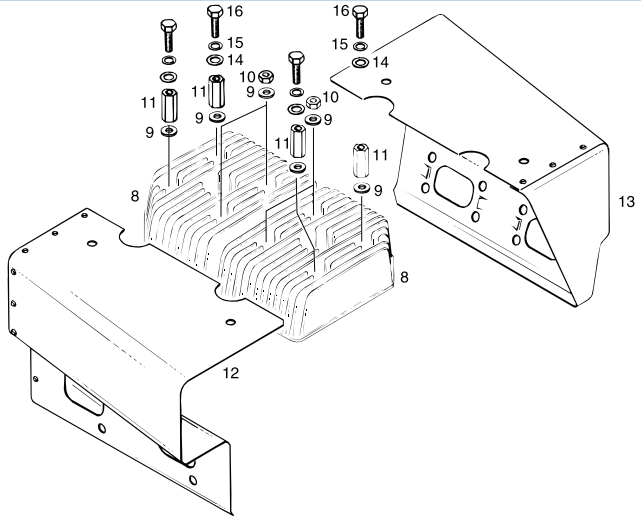


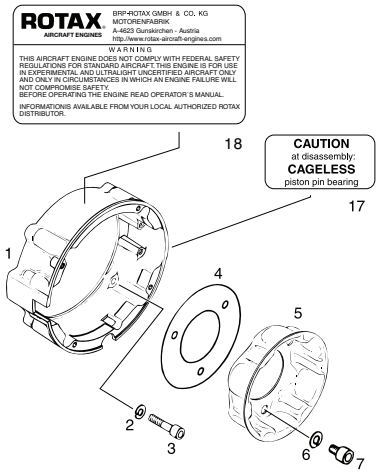
I: LITHIUM BASE GREASE - P/N 897-330

X: fix with adhesive

FAN HOUSING, CYLINDER COWLS, FAN, V-BELT

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE	NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		811-265	FAN HOUSING	1	**$511.14**	15		840-880	ALLEN SCREW M6X30 DIN 912	4	**$0.51**
2		945-880	RETAINING RING 40X1,75	1	**$3.05**	16		975-740	FAN COVER	1	**$34.64**
3		244-585	SHIM 17,5/24/1,0	2	**$1.52**	17		910-054	CYLINDER COWL, LOWER HALF	1	**$295.65**
4		832-161	BALL BEARING 6203-2RS C3	2	**$35.80**	18		842-390	SPRING NUT V 4,8	6	**$1.34**
5		937-940	FAN SHAFT	1	**$90.88**	19		912-027	CYLINDER COWL ASSY.	1	**$281.03**
6		246-015	WOODRUFF KEY 3X5	1	**$3.15**	20		960-961	SEALING STRIP 440 MM	1	**$7.94**
7		827-650	DISTANCE SLEEVE 17,3/28/2,8	1	**$9.08**	21		945-752	LOCK WASHER A8	3	**$0.18**
8		980-496	PULLEY HALF	1	**$12.25**	22		940-580	HEX. SCREW M8X16 DIN 933	3	**$0.99**
9		827-080	SHIM 17,5/27/0,5	4	**$1.50**	23		845-330	WASHER 5,1X16X1,2	6	**$0.81**
9		827-080	SHIM 17,5/27/0,5	AR	**$1.50**	24		841-495	SELF-TAPPING SCREW 4.8X16	6	**$0.35**
9		827-082	SHIM 17,5/27/0,2	1	**$1.68**	25		240-385	TAPTITE-SCREW M6X12	1	**$1.47**
9		827-082	SHIM 17,5/27/0,2	AR	**$1.68**	26		960-270	PLUG	1	**$4.72**
10		866-295	FAN	1	**$103.06**	27		853-412	CABLE CLAMP	2	**$5.44**
11		945-756	LOCK WASHER 16	1	**$1.18**	28		941-250	TAPTITE-SCREW M6X20	1	**$1.52**
12		942-285	HEX. NUT M16X1,5	1	**$6.81**	29		897-280	CAGELESS-LABEL	AR	**$1.68**
13		980-436	V-BELT 10X6X590	1	**$31.15**	30		897-501	RED WARNING LABEL	AR	**$6.31**
14		945-751	LOCK WASHER A6 DIN 128	4	**$0.16**	31		865-992	MASS CABLE ASSY.	1	**$6.36**

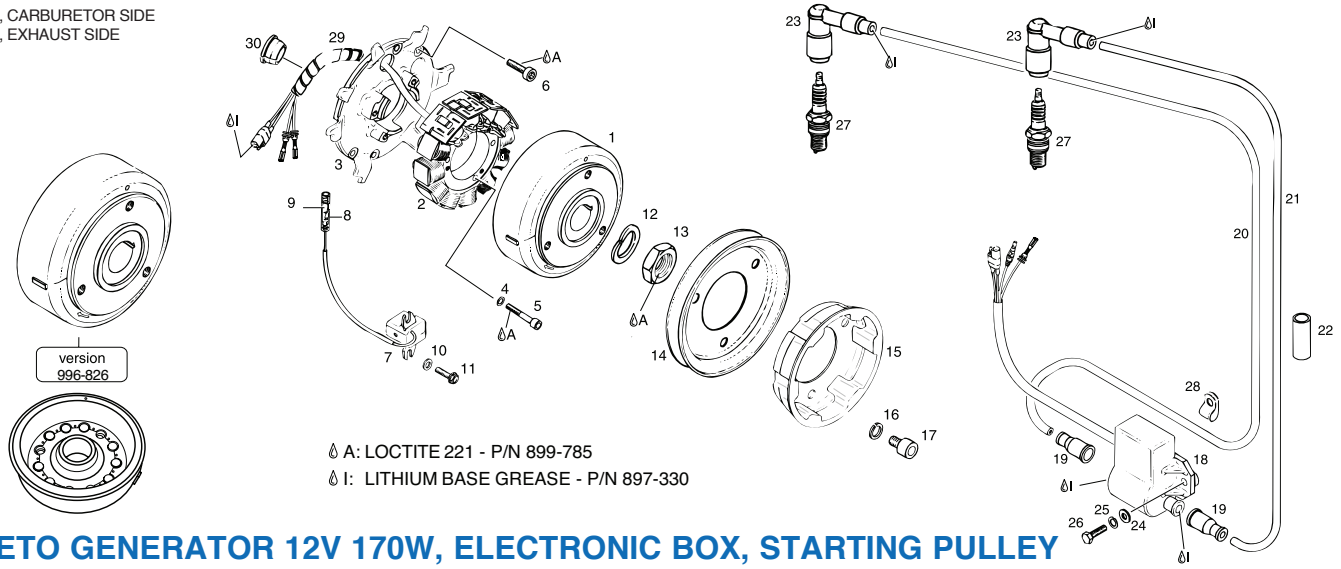




IGNITION HOUSING, AIR GUIDES: CONFIGURATION FREE AIR COOLED

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE	NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		910-418	IGNITION HOUSING	1	$328.13	10		242-209	HEX. NUT M8 DIN 934	4	$0.53
2		945-751	LOCK WASHER A6 DIN 128	4	$0.16	11		242-660	DISTANCE NUT M8X33	4	$6.71
3		840-880	ALLEN SCREW M6X30 DIN 912	4	$0.51	12		910-645	CYLINDER COWL RIGHT ASSY.,	1a	NLA
4		827-286	PLUG WASHER 55/107	1	$35.01	13		910-635	CYLINDER COWL LEFT ASSY.,	1b	NLA
5		852-412	STARTING PULLEY	1	$38.72	14		250-311	WASHER 8,4 DIN 125 4	4	$0.39
6		845-310	LOCK WASHER VHZ 8	3	$0.39	15		945-752	LOCK WASHER A8	4	$0.18
7		841-520	ALLEN SCREW M8X12	3	$1.29	16		940-580	HEX. SCREW M8X16	4	$0.99
8		823-828	CYLINDER HEAD	2	$222.39	17		897-280	CAGELESS-LABEL	AR	$1.68
9		250-311	WASHER 8,4 DIN 125	8	$0.39	18		897-501	RED WARNING LABEL	AR	$6.31

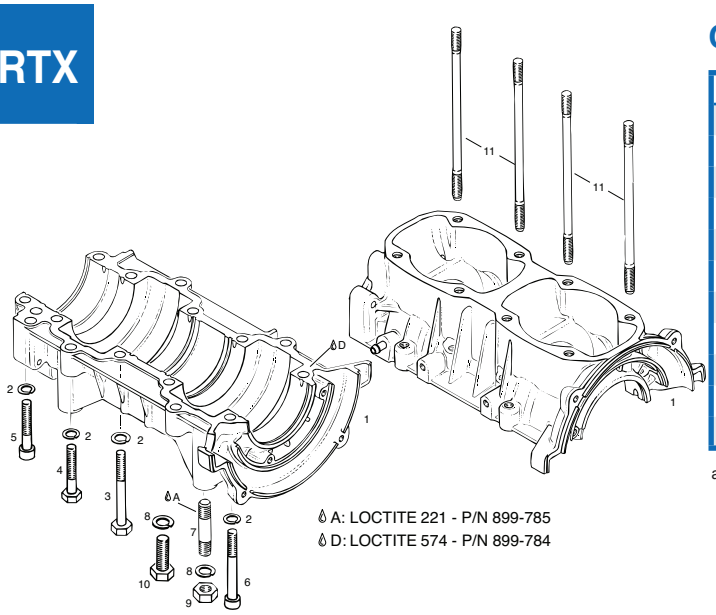
a AIR GUIDE, CARBURETOR SIDE
b AIR GUIDE, EXHAUST SIDE



MAGNETO GENERATOR 12V 170W, ELECTRONIC BOX, STARTING PULLEY

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE	NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		996-826	TRIGGER WHEEL ASSY.,	1c	$612.47	19		960-550	PROTECTION CAP	4	$3.05
2		996-849	STATOR ASSY.	1	$713.80	20-21		965-153	IGNITION CABLE 1,5/7 MM	ARb	$14.95
3		966-207	STATOR PLATE	1	$172.89	20		965-153	IGNITION CABLE 730 MM	1	$14.95
4		945-750	LOCK WASHER A5	5	$0.14	20		965-153	IGNITION CABLE 560 MM	1A	$14.95
5		940-880	ALLEN SCREW M5X30	3	$0.86	21		965-153	IGNITION CABLE 500 MM	1	$14.95
6		641-521	TORX-ZYLINDER HEAD SCREW M5X16	2c	$2.00	21		965-153	IGNITION CABLE 560 MM	1A	$14.95
7-9		965-761	PICKUP ASSY.,	1	$149.62	22		830-962	PROTECTION HOSE 12X16X40	1	$2.15
8		964-072	INSULATION SHEATH	1	$2.15	23		866-705	SUPPRESSED SPARK PLUG CONNECTOR	2	$25.09
9		964-067	FASTON CONNECTOR 3,96	1	$2.15	24		244-211	WASHER 6,4 DIN 134	2	$0.18
10		827-800	WASHER A 5,5 DIN 6902	2	$0.39	25		945-751	LOCK WASHER A6 DIN 128	2	$0.16
11		941-925	TAPTITE SCREW M5X16	2	$1.18	26		940-561	HEX.SCREW M6X20	2	$0.63
12		945-759	LOCK WASHER 22	1	$1.68	27		897-055	SPARK PLUG 14 MM, NGK BR 8 ES	2	$2.45
13		842-230	HEX. NUT M22X1,5	1	$12.25	28		853-415	CABLE CLAMP	1A	NLA
14		980-486	V-BELT PULLEY	1	$56.67	29		966-060	SPIRAL HOSE 6, 5X8, 5X0, 6	ARb	$10.25
15		852-412	STARTING PULLEY	1	$38.72	29		966-060	SPIRAL HOSE 70 MM	1	$10.25
16		845-310	LOCK WASHER VHZ 8	3	$0.39				THIS ITEM CAN USE 11-12316(SOLD PER FOOT)		
17		841-520	ALLEN SCREW M8X12	3	$1.29	30		860-962	CABLE GROMMET 24, 5/11	1	$8.39
18		966-467	ELECTRONIC BOX	1	$372.95						

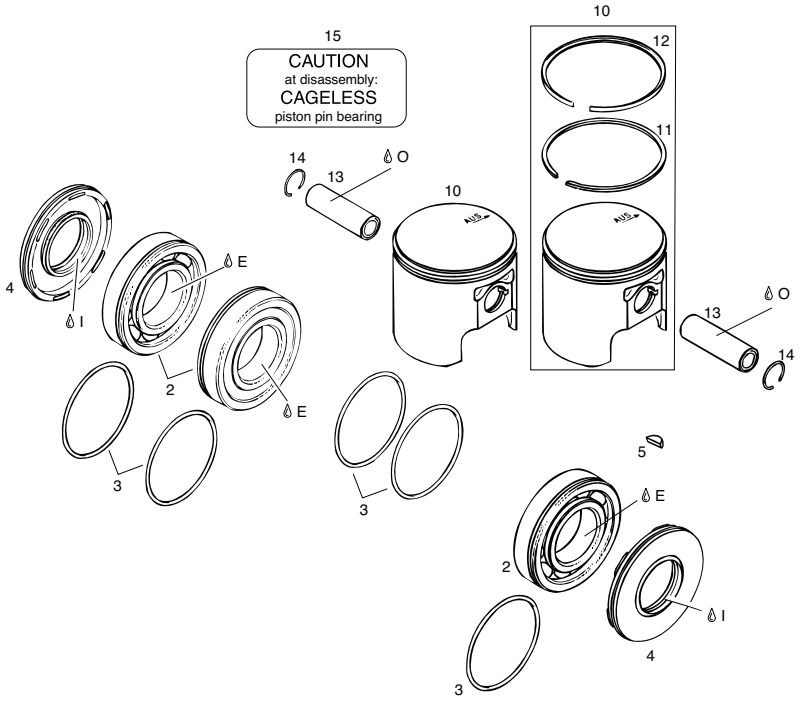
a FOR CONFIGURATION FREE-AIR-COOLED
b IN A ROLL
c FOR MAGNETO FLYWHEEL NEW VERSION (WITH CLOSED CAGE), TORX SCREW ALSO VALID FOR OLD VERSION. AT DISASSEMBLY AND REASSEMBLY OF THE SCREW THE THREAD HAS TO BE CLEANED OF THE REMAINING COATING AND SECURED WITH LOCTITE 221. AS AN ALTERNATIVE A NEW SCREW CAN BE USED.

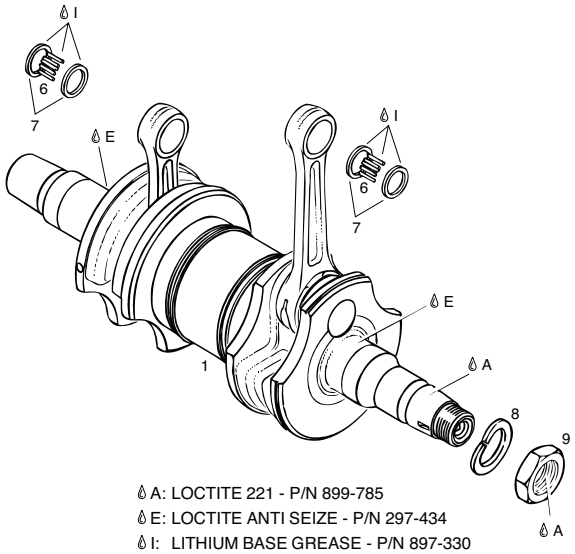


CRANKCASE

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1-6		887-796	CRANKCASE ASSY.	1a	**$1,084.75**
2		945-752	LOCK WASHER A8	14	**$0.18**
3		841-201	HEX. SCREW M8X70	6	**$2.62**
4		940-631	HEX.SCREW M8X45 DIN 931	4	**$1.68**
5		640-611	ALLEN SCREW M8X45	2	**$1.71**
6		841-841	ALLEN SCREW M8X65 DIN 912	2	**$2.28**
7		940-190	STUD M10X29/20	4	**$4.54**
8		945-753	LOCK WASHER A10	4	**$0.27**
9		242-091	HEX.NUT M10	4	**$1.18**
10		940-326	HEX. SCREW M10X30	4	**$1.87**
11		840-556	STUD M8X173,5	8	**$18.41**

a FROM ENGINE S/N: 4,795.397

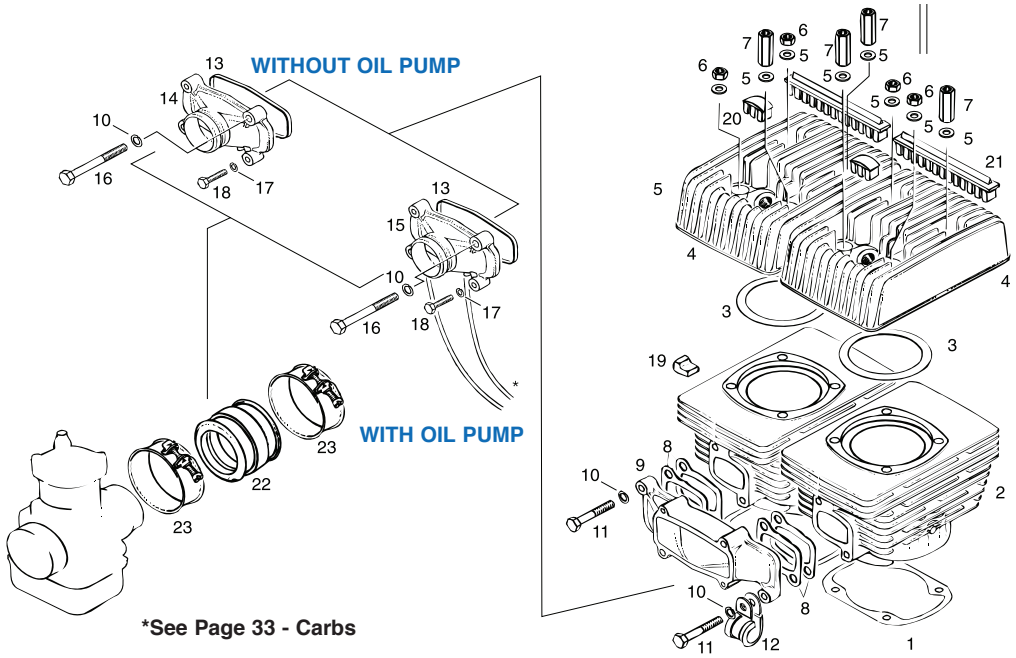




CRANKSHAFT, MAIN BEARINGS, PISTONS

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1-7		996-441	CRANKSHAFT ASSY.	1	**$984.31**
2		832-231	B. BEARING 6207N TNH C3 35-72-17	3	**$79.38**
3		250-165	O-RING 64-2	5	**$5.09**
4		831-950	OIL SEAL 35X72X7/8,5	2	**$37.50**
5		246-055	WOODRUFF KEY 3X3,7 DIN 6888	1	**$3.54**
6-7		832-320	CAGEL. NEEDLE BEARING 18X22X23	2	**$54.32**
7	N.A.	827-465	THRUST WASHER 18/21,7/2,5	4	**$13.47**
8		945-759	LOCK WASHER 22	1	**$1.68**
9		842-239	HEX. NUT M22X1,5	1	**$12.25**
10-12		996-245	PISTON ASSY. 71,93/71,94 MM	2a	**$200.47**
10-12		996-246	PISTON ASSY. 72,18/72,19 MM	2b	**$212.38**
10-12		996-247	PISTON ASSY. 72,43/72,44 MM	2c	**$212.38**
11		915-850	RECTANGULAR RING 72,00 MM	2d	**$52.87**
11		915-851	RECTANGULAR RING 72,25 MM	2e	**$59.22**
11		915-852	RECTANGULAR RING 72,50 MM	2f	**$59.22**
12		215-235	SEMI-TRAPEZ RING 72,00 MM	2d	**$80.83**
12		215-236	SEMI-TRAPEZ RING 72,25 MM	2e	**$87.18**
12		215-237	SEMI-TRAPEZ RING 72,50 M	2f	**$87.18**
13		916-186	PISTON PIN 18X11X58,7	2	**$48.33**
14		945-735	CIRCLIP 18	4g	**$0.48**
15		897-280	CAGELESS-LABEL	1	**$1.68**

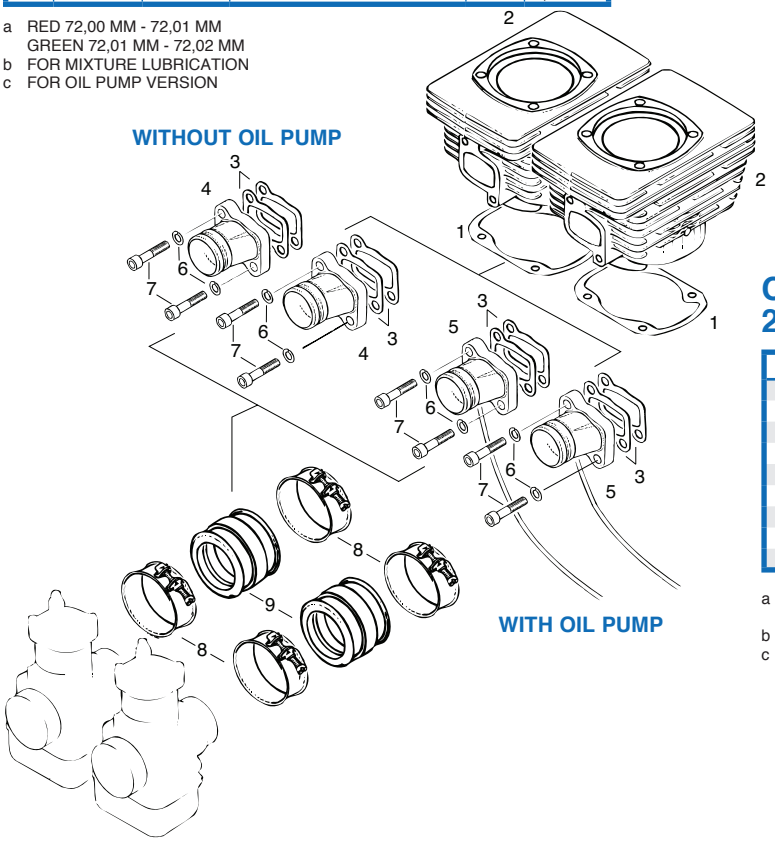
a WITH 2 RINGS, STANDARD — RED 71,93 MM / GREEN 71,94 MM
b WITH 2 RINGS, 1ST OVERSIZE — RED 72,18 MM / GREEN 72,19 MM
c WITH 2 RINGS, 2ND OVERSIZE — RED 72,43 MM / GREEN 72,44 MM
d STANDARD SIZE
e 1ST OVERSIZE
f 2ND OVERSIZE
g NOTICE USE ONLY ONCE!



CYLINDER, CYLINDER HEAD AND INTAKE MANIFOLD: 1-CARB. CONFIGURATION

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE	NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		831-855	GASKET 0,4 MM	2	$4.33	13		850-151	RUBBER RING 83X1, 5X3, 5	1	$5.69
2		923-010	CYLINDER WITH SLEEVE	2a	$733.16	14		867-465	INTAKE COVER	1b	$86.84
3		831-881	GASKET	2	$10.95	15		867-462	INTAKE COVER	1c	$93.40
4		823-668	CYLINDER HEAD	2	$449.00	16		841-301	HEX. SCREW M8X65	2	$1.87
5		250-311	WASHER 8,4 DIN 125	8	$0.39	17		945-751	LOCK WASHER A6 DIN 128	2	$1.87
6		242-209	HEX. NUT M8	4	$0.53	18		941-501	HEX.SCREW M6X30	2	$0.94
7		842-050	DISTANCE NUT M8X37	4	$6.81	19		860-060	SUPPORT DAMPER	1	$2.81
8		831-866	INTAKE GASKET 1,0 MM	4	$5.98	20		860-096	NOISE DAMPER, SHORT	8	$11.43
9		867-450	INTAKE MANIFOLD	1	$110.45	21		860-091	NOISE DAMPER, LONG	2	$20.00
10		945-752	LOCK WASHER A8	4	$0.18	22		867-484	RUBBER SOCKET	1	$35.50
11		940-616	HEX. SCREW M8X40	2	$1.52	23		951-510	HOSE CLAMP 52	2	$10.30
12		851-100	CABLE CLAMP 18	1	$12.34						

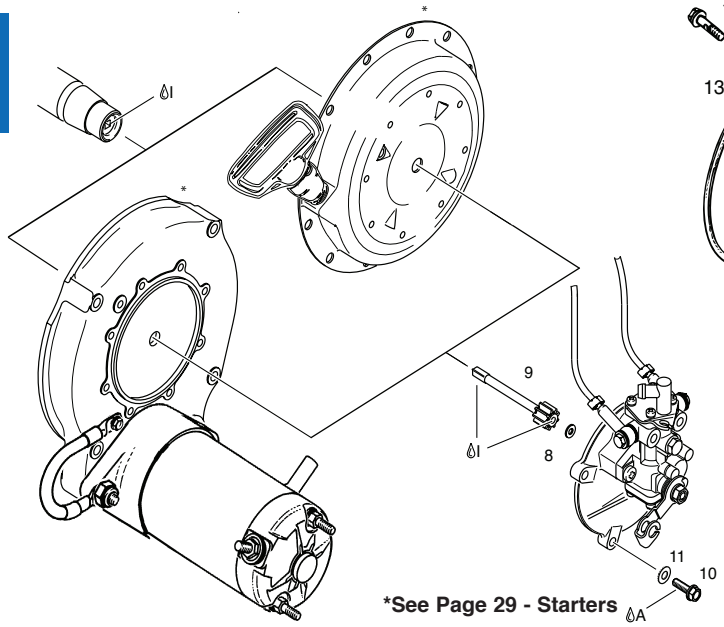
a RED 72,00 MM - 72,01 MM
GREEN 72,01 MM - 72,02 MM
b FOR MIXTURE LUBRICATION
c FOR OIL PUMP VERSION



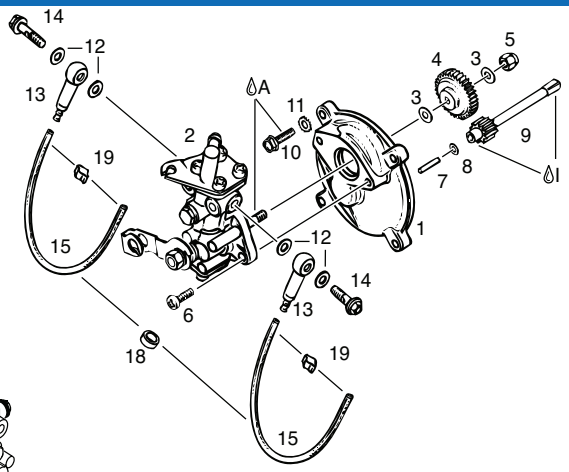
CYLINDER AND INTAKE SOCKET FOR 2-CARBURETOR CONFIGURATION

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		831-855	GASKET 0,4 MM	2	$4.33
2	N	923-010	CYLINDER WITH SLEEVE	2a	$733.16
3		831-866	INTAKE GASKET 1,0 MM	4	$5.98
4		867-400	INTAKE SOCKET	2b	$70.05
5		867-407	INTAKE SOCKET	2c	$72.87
6		945-752	LOCK WASHER A8	4	$0.18
7		840-681	ALLEN SCREW M8X40 DIN 912	4	$1.68
8		951-510	HOSE CLAMP 52	4	$10.30
9		867-484	RUBBER SOCKET	2	$35.50

a RED 72,00 MM - 72,00 MM
GREEN 72,00 MM - 72,00 MM
b FOR MIXTURE LUBRICATION.
c FOR OIL PUMP VERSION.



*See Page 29 - Starters

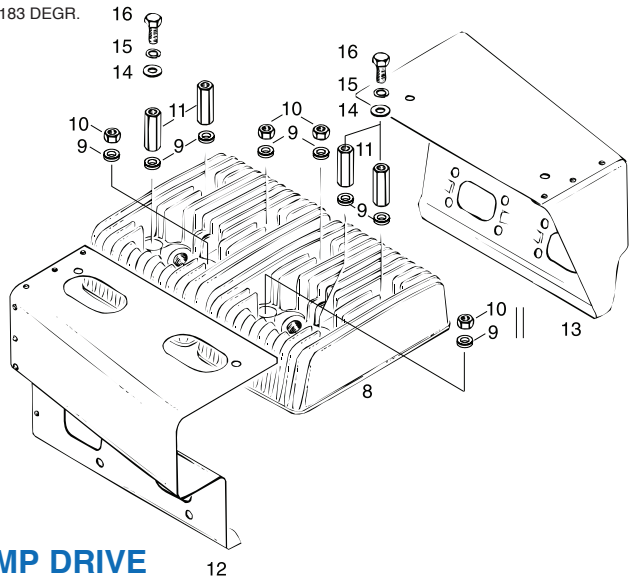


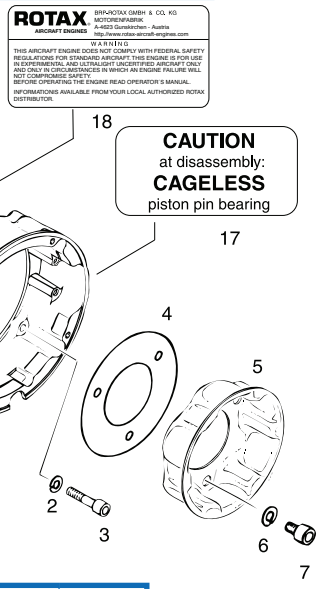
A: LOCTITE 221 - P/N 899-785
I: LITHIUM BASE GREASE - P/N 897-330

IGNITION HOUSING, AIR GUIDES, FOR CONFIGURATION: FREE AIR COOLED

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE	NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		910-418	IGNITION HOUSING E.,	1a	$328.13	10		242-209	HEX. NUT M8 DIN 934	4	$0.53
2		945-751	LOCK WASHER A6 DIN 128	4	$0.16	11		842-050	DISTANCE NUT M8X37	4	$6.81
3		840-880	ALLEN SCREW M6X30 DIN 912	4	$0.51	12		910-727	AIR GUIDE ASSY.,	1b	$407.66
4		827-286	PLUG WASHER 55/107	1	$35.01	13		910-707	AIR GUIDE ASSY.	1c	$407.66
5		852-412	STARTING PULLEY	1	$38.72	14		250-311	WASHER 8,4 DIN 125	4	$0.39
6		845-310	LOCK WASHER VHZ 8	3	$0.39	15		945-752	LOCK WASHER A8	4	$0.18
7		841-520	ALLEN SCREW M8X12	3	$1.29	16		940-580	HEX. SCREW M8X16	4	$0.99
8		823-668	CYLINDER HEAD	2	$449.00	17		897-280	CAGELESS LABEL	AR	$1.68
9		847-475	CONE SLEEVE 8,4/15/4	8	$7.43	18		897-501	RED WARNING LABEL	AR	$6.31

a FOR E-STARTER POSITION 93 OR 183 DEGR.
b AIR GUIDE, CARBURETOR SIDE
c AIR GUIDE, EXHAUST SIDE



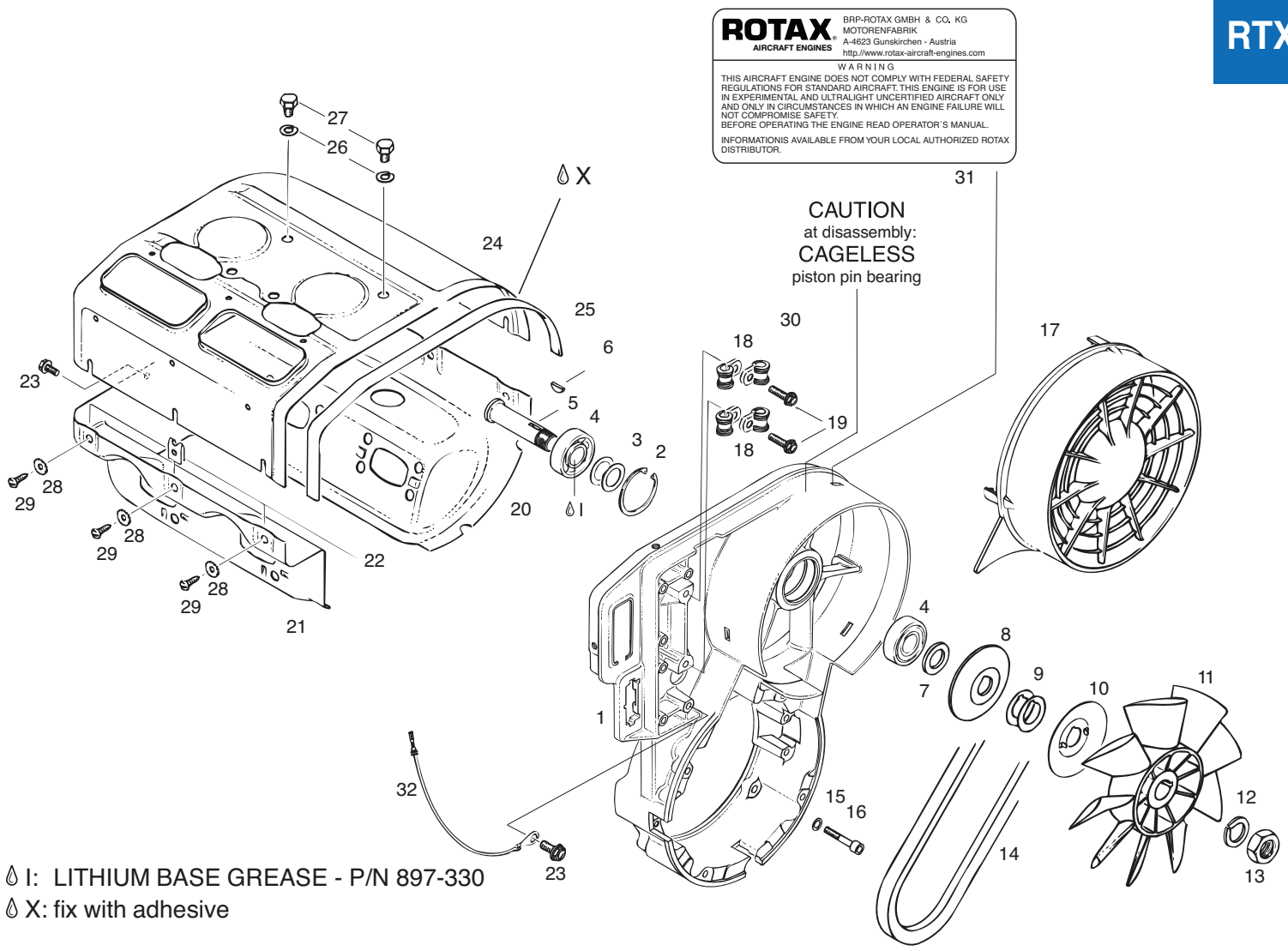


OIL PUMP, OIL PUMP DRIVE

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE	NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		910-160	PUMP MOUNTING FLANGE	1	$90.88	13		956-010	CHECK VALVE ASSY.	2	$24.28
2		886-096	OIL PUMP ASSY.,	1e	$285.14	14		241-830	BANJO BOLT M6X16	2	$6.66
3		927-945	WASHER 6, 2/12/1	2	$1.47	15-17		960-040	OIL LINE 2,2+/-0,1X4,3+0,4	AR	$4.62*
4		935-930	OIL PUMP GEAR 27 T.,	1	$14.87				960-040 SOLD IN 1 METER LENGTHS. FOR CORRECT LENGTHS NEEDED, SEE DESCRIPTION OF INDIVIDUAL PARTS BELOW.		
5		842-042	LOCK NUT M6	1	$2.52						
6		841-971	PLASTITE SCREW 5, 5X16	2	$1.80						
7		832-260	NEEDLE PIN B4X17, 8	1	$1.52	15		960-040	OIL LINE 335 MM	ARbc	*
8		244-073	WASHER 4,3	1	$0.18	16		960-040	OIL LINE 380 MM	ARbd	*
9		935-970	GEAR 9 T.	1	$17.46	17		960-040	OIL LINE 300 MM	ARbd	*
9		935-972	GEAR 9 T.	1a	$17.46	18		960-700	RUBBER RING 7X1,5X5	2	$1.47
10		941-925	TAPTITE SCREW M5X16	4	$1.18	19		853-840	CLAMP 3-5 MM	4	$2.15
11		945-530	FRICTION WASHER A 5, 3	4	$0.53						
12		227-500	GASKET RING 6,2/12/1	4	$1.39						

*** CALL FOR PRICING!**

a FOR ELECTRIC STARTER CONFIGURATION MAGNETO-SIDE OR PTO SIDE.
b IN A ROLL
c FOR 1-CARBURETOR VERSION
d FOR 2-CARBURETOR VERSION
e RETROFITABLE FROM ENGINE S/N: 4,103.549



I: LITHIUM BASE GREASE - P/N 897-330

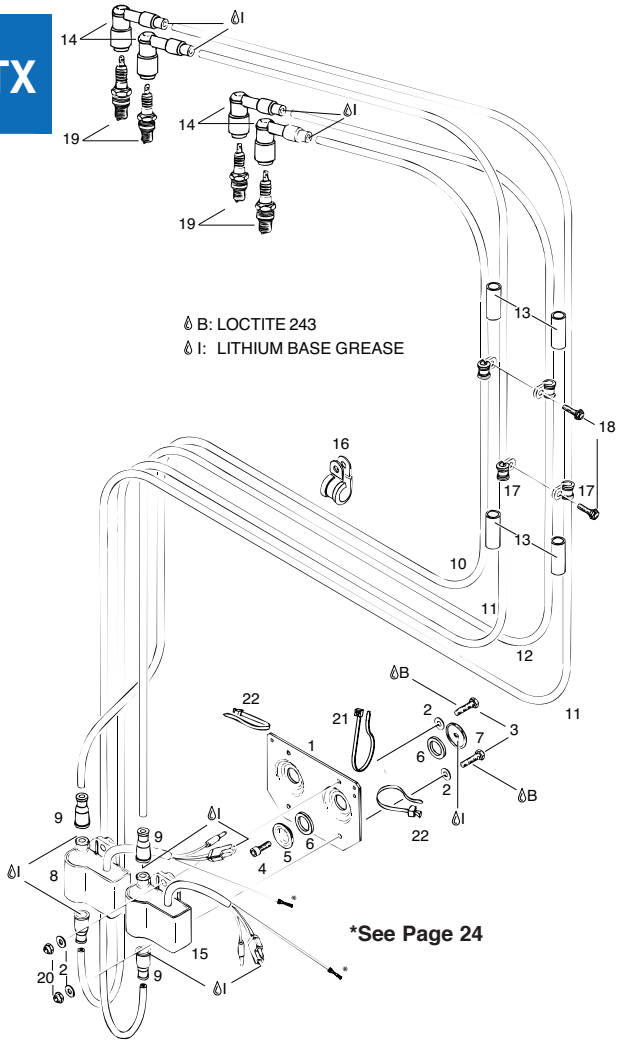
X: fix with adhesive

FAN HOUSING, CYLINDER COWLS, FAN, V-BELT

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		912-205	FAN HOUSING	1	**$35.50**
2		945-880	RETAINING RING 40X1, 75	1	**$3.05**
3		244-585	SHIM 17, 5/24/1,0	2	**$1.52**
4	N	832-161	BALL BEARING 6203-2RS C3, 17-40-12	2	**$35.80**
5		937-940	FAN SHAFT	1	**$90.88**
6		246-015	WOODRUFF KEY 3X5	1	**$3.15**
7		827-650	DISTANCE SLEEVE 17, 3/28/2, 8	1	**$9.08**
8		980-496	PULLEY HALF	1	**$12.25**
9		827-080	SHIM 17, 5/27/0, 5	AR	**$1.50**
9		827-082	SHIM 17, 5/27/0, 2	AR	**$1.68**
10		980-523	PROTECTION WASHER	1	**$10.15**
11		866-292	FAN	1	**$116.66**
12		945-756	LOCK WASHER 16	1	**$1.18**
13		942-289	HEX. NUT M16X1,5	1	**$6.81**
14		980-518	V-BELT 10X6X610	1	**$35.85**
15		945-751	LOCK WASHER A6 DIN 128	4	**$0.16**
16		840-880	ALLEN SCREW M6X30 DIN 912	4	**$0.51**

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
17		975-695	FAN-COVER	1	**$40.22**
18		853-412	CABLE CLAMP	4	**$5.44**
19		941-250	TAPTITE-SCREW M6X20	2	**$1.52**
20		810-273	CYLINDER COWL, LOWER HALF LEFT	1	**$207.47**
21		810-270	CYLINDER COWL, LOWER HALF RIGHT	1	**$207.47**
22		842-390	SPRING NUT V 4,8	8	**$1.34**
23		240-385	TAPTITE-SCREW M6X12	2	**$1.47**
24		912-215	CYLINDER COWL ASSY., UPPER HALF	AR	**$353.52**
25		960-961	SEALING STRIP 440 MM	1	**$7.94**
26		945-752	LOCK WASHER A8	4	**$0.18**
27		940-580	HEX. SCREW M8X16	4	**$0.99**
28	N	845-330	WASHER 5, 1X16X1, 2	8	**$0.81**
29		841-495	SELF-TAPPING SCREW 4.8X16	8	**$0.35**
30		897-280	CAGELESS LABEL	AR	**$1.68**
31		897-501	RED WARNING LABEL	AR	**$1.68**
32		865-992	MASS CABLE ASSY.,	1	**$6.36**

a IN A ROLL

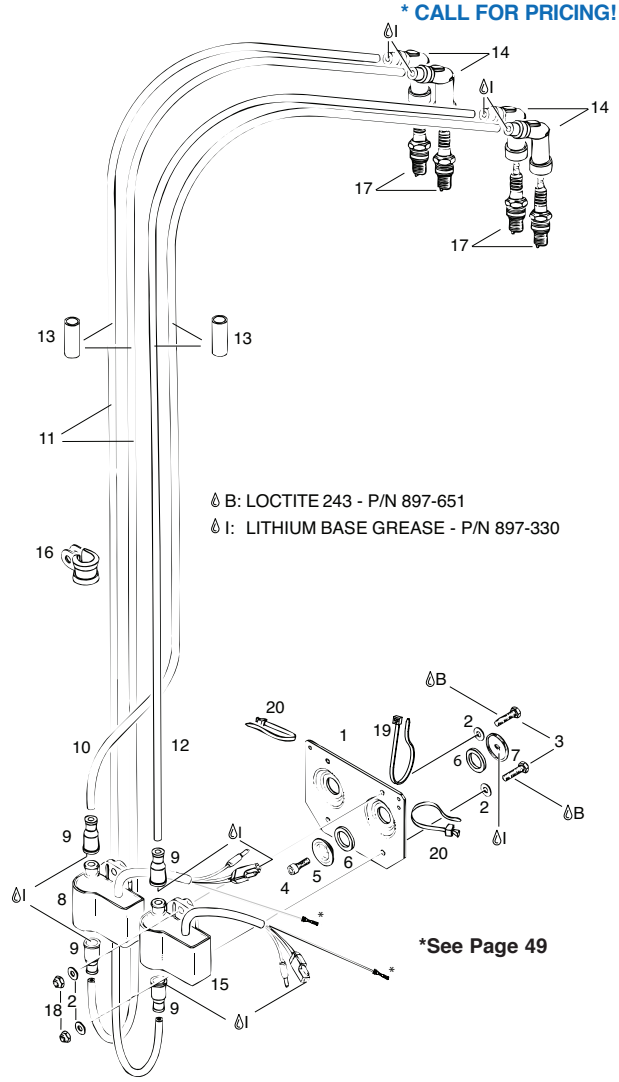


*See Page 24

ELECTRONIC BOXES AND SUPPORTING PLATE FOR CONFIGURATION: FREE AIR-COOLED

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		851-040	MOUNTING PLATE	1	$60.93
2		244-211	WASHER 6,4 DIN 134	8	$0.18
3		240-036	HEX. SCREW M6X25 DIN 933	4	$0.81
4		241-236	ALLEN SCREW M6X16	2	$0.63
5		827-815	DISTANCE CAP	2	$9.39
6		960-865	RUBBER WASHER 18/26/3	4	$1.81
7		944-090	SHIM 6,05	2	$9.53
8		966-462	ELECTRONIC BOX	1	$361.94
9		960-550	PROTECTION CAP	4	$3.05
10-12		965-153	IGNITION CABLE 1,5/7 MM	ARa	$14.95*
			965-153 SOLD IN METER LENGTHS. FOR CORRECT LENGTHS NEEDED, SEE DESCRIPTION OF INDIVIDUAL PARTS BELOW.		
10		965-153	IGNITION CABLE 600MM	ARa	*
11		965-153	IGNITION CABLES 875MM	ARa	*
12		965-153	IGNITION CABLE 560MM	ARa	*
13		830-962	PROTECTION HOSE 12X16X40	4	$2.15
14		866-702	SUPPRESSED SPARK PLUG CONNECTOR	4	$32.55
15		966-467	ELECTRONIC BOX	1	$372.95
16		851-100	CABLE CLAMP 18	1	$12.34
17		897-055	SPARK PLUG 14 MM, NGK BR 8 ES	4	$2.45
18		842-042	LOCK NUT M6	4	$2.52
19		251-920	CLAMP 279X3,6 MM	1	$1.85
20		866-710	CLAMP 142X2,5 MM	2	$1.18
21		251-920	CLAMP 279X3,6 MM	1	$1.85
22		866-710	CLAMP 142X2,5 MM	2	$1.18
23		964-072	INSULATION SHEATH	2	$2.15

* CALL FOR PRICING!



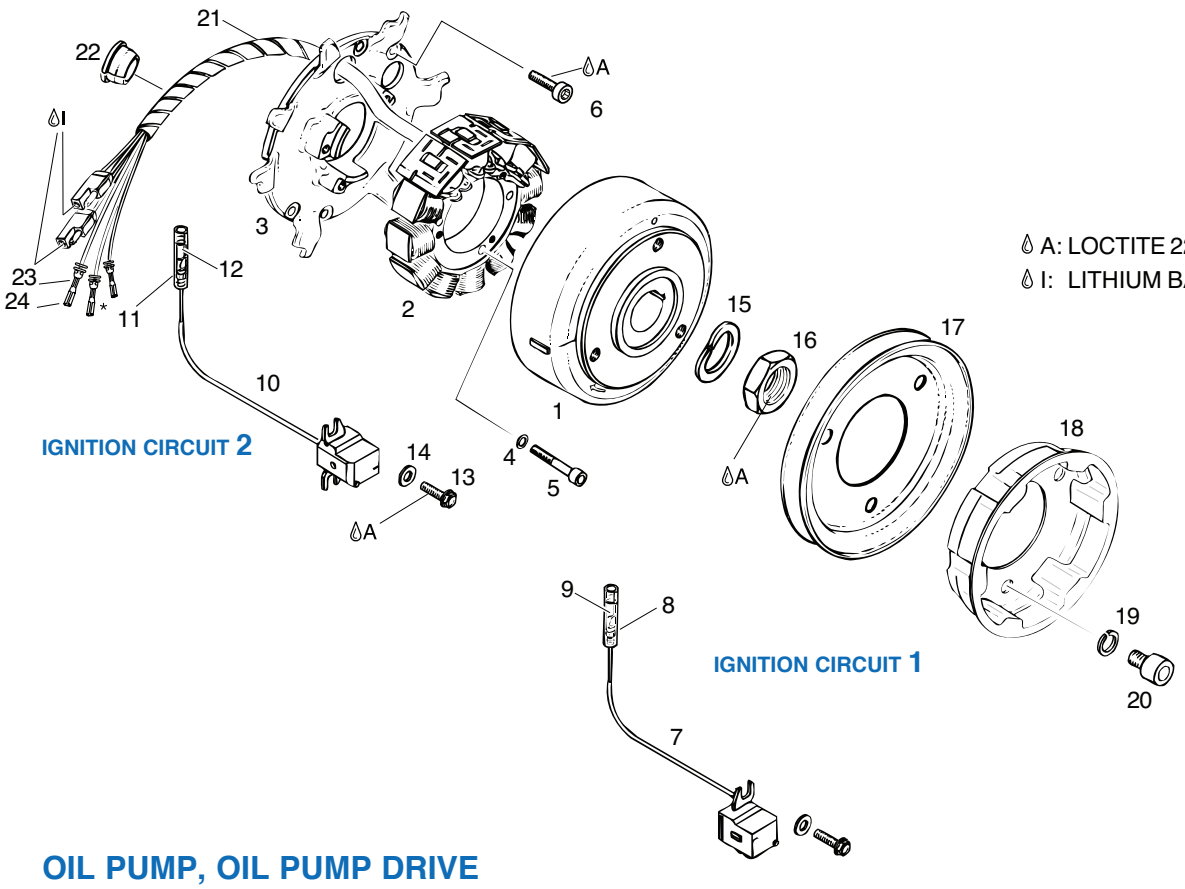
*See Page 49

ELECTRONIC BOXES, SUPPORTING PLATE

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		851-040	MOUNTING PLATE	1	$60.93
2		244-211	WASHER 6,4 DIN 134	8	$0.18
3		240-036	HEX. SCREW M6X25 DIN 933	4	$0.81
4		241-236	ALLEN SCREW M6X16	2	$0.63
5		827-815	DISTANCE CAP	2	$9.39
6		960-865	RUBBER WASHER 18/26/3	4	$1.81
7		944-090	SHIM 6,05	2	$9.53
8		966-462	ELECTRONIC BOX	1	$361.94
9		960-550	PROTECTION CAP	4	$3.05
10-12		965-153	IGNITION CABLE 1,5/7 MM	ARa	$14.95
			965-153 SOLD IN METER LENGTHS. FOR CORRECT LENGTHS NEEDED, SEE DESCRIPTION OF INDIVIDUAL PARTS BELOW.		
10		965-153	IGNITION CABLE 600MM	ARa	*
11		965-153	IGNITION CABLES 875MM	ARa	*
12		965-153	IGNITION CABLE 560MM	ARa	*
13		830-962	PROTECTION HOSE 12X16X40	4	$2.15
14		866-702	SUPPRESSED SPARK PLUG CONNECTOR	4	$32.55
15		966-467	ELECTRONIC BOX	1	$372.95
16		851-100	CABLE CLAMP 18	1	$12.34
17		853-412	CABLE CLAMP	4	$5.44
18		941-250	TAPTITE-SCREW M6X20	2	$1.52
19		897-055	SPARK PLUG 14 MM, NGK BR 8 ES	4	$2.45
20		842-042	LOCK NUT M6	1	$2.52
21		251-920	CLAMP 279X3,6 MM	1	$1.85
22		866-710	CLAMP 142X2,5 MM	2	$1.18
23		964-072	INSULATION SHEATH	2	$2.15

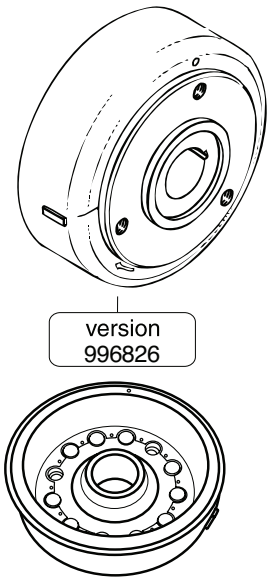
a IN A ROLL

* CALL FOR PRICING!



A: LOCTITE 221 - P/N 899-785

I: LITHIUM BASE GREASE - P/N 897-330



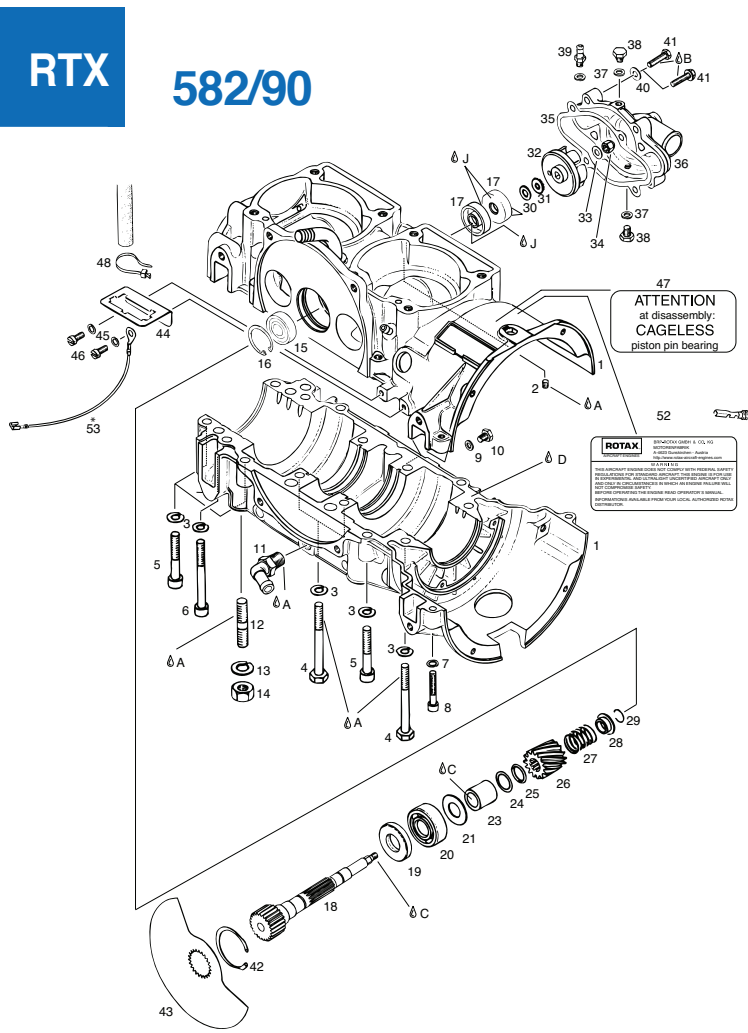
OIL PUMP, OIL PUMP DRIVE

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1	N	996-826	MAGNETO FLYWHEEL ASSY.	1e	**$612.47**
2		996-849	COIL KIT	1	**$713.80**
3		966-207	STATOR PLATE	1	**$172.89**
4		945-750	LOCK WASHER A5	5	**$0.14**
5		940-880	ALLEN SCREW M5X30	3	**$0.86**
6		641-521	TORX-ZYLINDER HEAD SCREW M5X16	2e	**$2.00**
7-9		965-769	PICK UP ASSY.	1a	**$161.11**
8		964-072	INSULATION SHEATH	1	**$2.15**
9		964-067	FASTON CONNECTOR 3,96	1	**$2.15**
10-12		965-761	PICKUP ASSY.,	1b	**$149.62**
11		964-072	INSULATION SHEATH	1	**$2.15**
12		964-067	FASTON CONNECTOR 3,96	1	**$2.15**
13		941-925	TAPTITE SCREW M5X16	4	**$1.18**
14		827-800	WASHER A 5,5 DIN 6902	4	**$0.39**
15		945-759	LOCK WASHER 22	1	**$1.68**
16	N	842-239	HEX. NUT M22X1,5	1	**$12.25**
17		980-486	V-BELT PULLEY	1	**$56.67**
18		852-412	STARTING PULLEY	1	**$38.72**
19		845-310	LOCK WASHER VHZ 8	3	**$0.39**
20		841-520	ALLEN SCREW M8X12	3	**$1.29**
21		966-060	SPIRAL HOSE 6,5X8,5X0,6	ARd	**$10.25**
			THIS ITEM CAN USE 11-12316(SOLD PER FOOT)		
21		966-060	SPIRAL HOSE 70 MM	1	*
22	N	860-962	CABLE GROMMET 24, 5/11	1c	**$8.39**
23		260-130	CABLE GROMMET		**$2.15**
24		265-275	FASTON CONNECTOR		**$2.33**

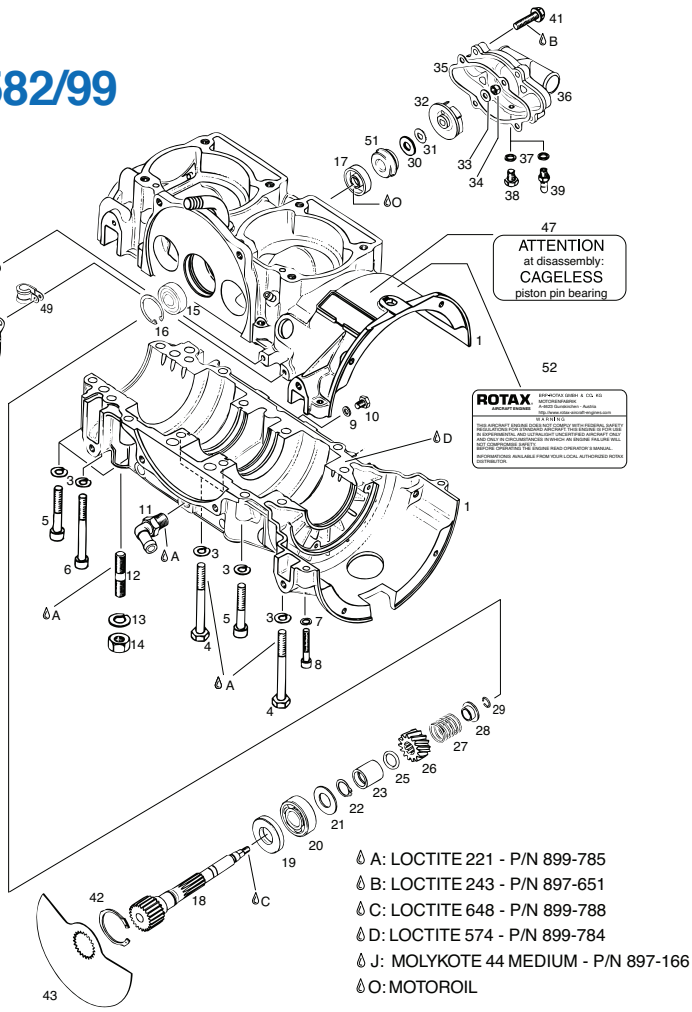
*** CALL FOR PRICING!**

a FOR IGNITION CIRCUIT 1
b FOR IGNITION CIRCUIT 2
c FROM ENGINE S/N: 4,795.397
d IN A ROLL
e MAGNETO FLYWHEEL NEW VERSION (WITH CLOSED CAGE), TORX SCREW ALSO VALID FOR OLD VERSION. AT DISASSEMBLY AND REASSEMBLY OF THE SCREW THE THREAD HAS TO BE CLEANED OF THE REMAINING COATING AND SECURED WITH LOCTITE 221. AS AN ALTERNATIVE A NEW SCREW CAN BE USED.

582/90



582/99



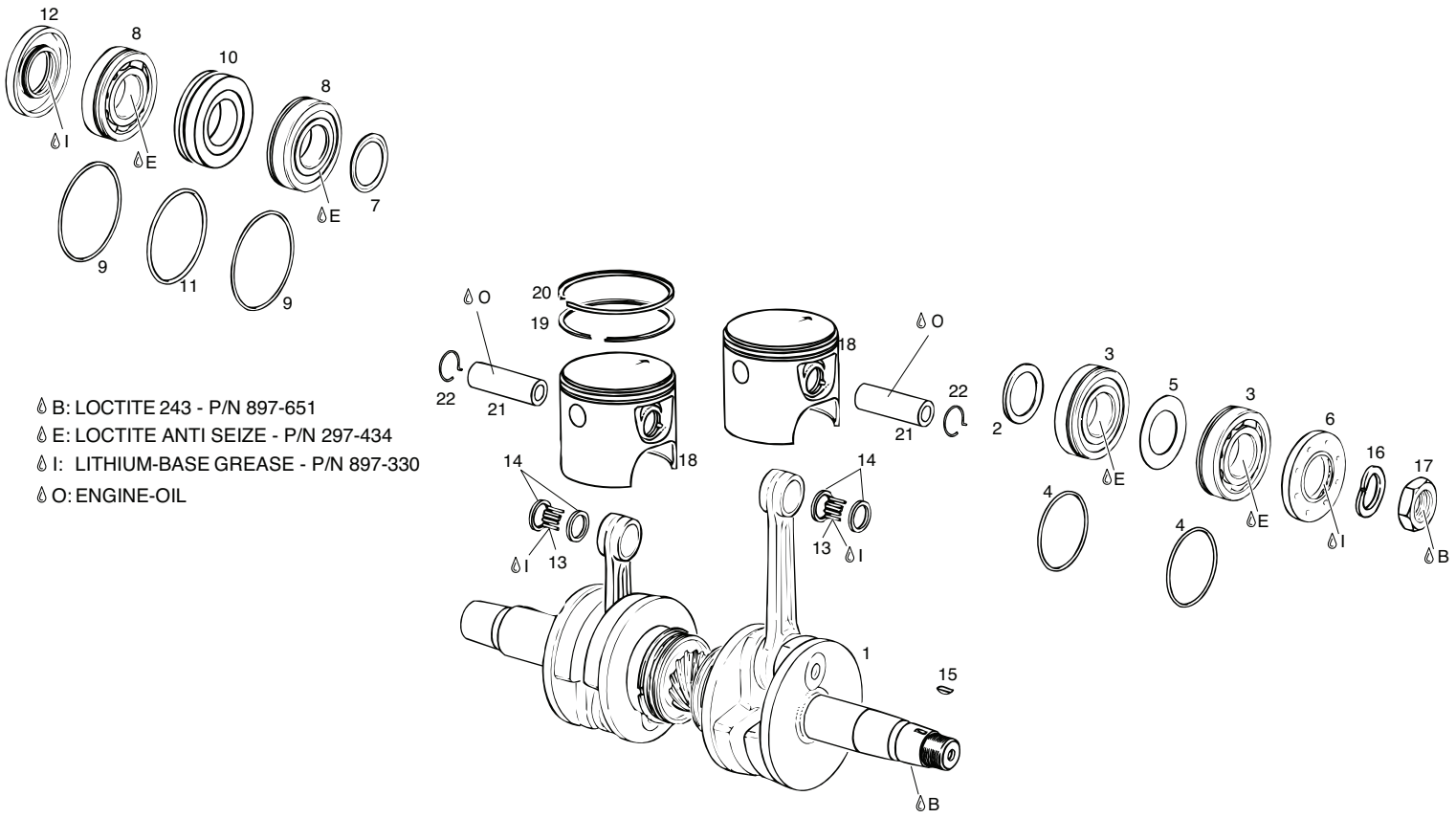
A: LOCTITE 221 - P/N 899-785
B: LOCTITE 243 - P/N 897-651
C: LOCTITE 648 - P/N 899-788
D: LOCTITE 574 - P/N 899-784
J: MOLYKOTE 44 MEDIUM - P/N 897-166
O: MOTOROIL

CRANKCASE, ROTARY VALVE DRIVE, WATER PUMP

NO	STATUS	PART #	DESCRIPTION	QTY mod.90	QTY mod.99	PRICE
1-12		888-471	CRANKCASE-ASSY.		1	$1,475.23
1-29,42		888-476	CRANKCASE-ASSY. W/ROTARY VALVE DR.	1e	1e	$1,641.31
2		940-900	SCREW M5X6		1	$1.68
3		945-752	LOCK WASHER A8	14	14	$0.18
4		841-301	HEX. SCREW M8X65	6	6	$1.87
5		841-561	ALLEN SCREW M8X45	6	6	$0.37
6		841-831	ALLEN SCREW M8X75	2	2	$3.15
7		945-751	LOCK WASHER A6 DIN 128	2	2	$0.16
8		241-811	ALLEN SCREW M6X35 DIN 912	2	2	$0.53
9		230-415	GASKET RING A 6X10 DIN 7603	1	1	$1.34
10		240-771	HEX.SCREW M6X10	1	1	$0.53
11	N	922-242	ANGULAR TUBE 1/4-18NPT	1	1	$16.97
12		940-190	STUD M10X29/20	4	4	$4.54
13		945-753	LOCK WASHER A10	4	4	$0.27
14		242-091	HEX.NUT M10	4	4	$1.18
15		932-797	B. BEARING 6201-Z, 12-32-10	1	1	$25.25
16		245-420	RETAINING RING 32X1,2	1	1	$1.97
17		850-711	OIL SEAL 10X30X8	2	1	$23.23
18		937-969	ROTARY VALVE SHAFT	1		$185.12
18		837-243	ROTARY VALVE SHAFT		1a	$193.47
19		930-580	OIL SEAL 20X40X7	1	1	$24.62
20		932-032	BALL BEARING 6203 TVH C3,17-40-12	1	1	$31.41
21		827-510	SHIM 15,3/32,5/0,5	1		$1.63
21		227-439	SHIM 17,2/32,5/1,5		1	$4.20
23		847-280	SPACER 15,2/22/24,5	1		$13.52
23		847-282	SPACER		1	$14.09
24		927-440	SHIM 15,1/22,5/0,5	1		$1.81
26		935-731	ROTARY VALVE GEAR 14 T.	1		$110.84
26		935-736	ROTARY VALVE GEAR 14 T.		1	$96.70

NO	STATUS	PART #	DESCRIPTION	QTY mod.90	QTY mod.99	PRICE
27		938-810	COMPRESSION SPRING 25,1 MM	1	1	$8.86
28		827-430	SPRING HOLDING CUP	1	1	$11.37
29		845-160	CIRCLIP 12	1	1b	$1.63
30		227-945	THRUST WASHER 8,1/15/0,5	1	1	$1.81
31		227-155	FRICTION WASHER	1	1	$9.39
32		922-036	IMPELLER	1	1	$23.23
33		244-211	WASHER 6,4 DIN 134	1	1	$0.18
34		842-042	LOCK NUT M6	1	1	$2.52
35		831-616	GASKET	1	1	$8.70
36		222-388	WATER PUMP HOUSING	1		$219.53
36		922-503	WATER PUMP HOUSING		1	$242.14
37		230-415	GASKET RING 6,2/8,9/1	2	1	$1.34
38		841-580	HEX. SCREW M6X8	2	1	$0.53
39	N	940-551	HOSE NIPPLE M6	1	1	$16.70
41		841-540	TAPTITE-SCREW M6X25	4c		$1.63
41		240-036	HEX. SCREW M6X25 DIN 933	4d		$0.81
41		240-031	HEX. SCREW M6X25	4		$1.68
42		945-880	RETAINING RING 40X1,75	1	1	$3.05
43		924-504	ROTARY VALVE 132 DEGR.,	1	1	$64.07
44		853-322	RECEPTACLE	1		$23.85
45		945-750	LOCK WASHER A5	2	2	$0.14
46		840-511	ALLEN SCREW M5X16	2	2	$0.48
47		897-280	CAGELESS-LABEL	1	1	$1.68
48		866-710	CLAMP 142X2,5 MM	1		$1.18
49		851-111	CABLE CLAMP 8/M5		1	$11.30
50		851-113	CLUMP 18/M5		1	$11.18
51		650-370	ROTARY SEAL		1	$43.32
52		897-501	RED WARNING LABEL	1	1	$6.31
53		865-993	MASS CABLE	1		$10.21
54	N.A.		MASS CABLE ASSEMBLY		1	NLA

a ROTARY VALVE FOR CONFIGURATION WITH ROTARY SEAL (582 UL DCDI MOD. 99).
b THE CIRCLIP MUST BE POSITIONED AT THE INNER GROOVE ONLY (582 UL DCDI MOD. 99).
c UP TO ENGINE S/N
582 UL MOD. 90: 4,172.691 (SEE ALSO SI-08-1994)
d FROM ENGINE S/N
582 UL MOD. 90: 4,172.692
(SEE ALSO SI-08-1994)
e CRANKCASE INCLUDING ROTARY VALVE DRIVE, CONFIGURATION WITH ROTARY SEAL MODEL 99



B: LOCTITE 243 - P/N 897-651
E: LOCTITE ANTI SEIZE - P/N 297-434
I: LITHIUM-BASE GREASE - P/N 897-330
O: ENGINE-OIL

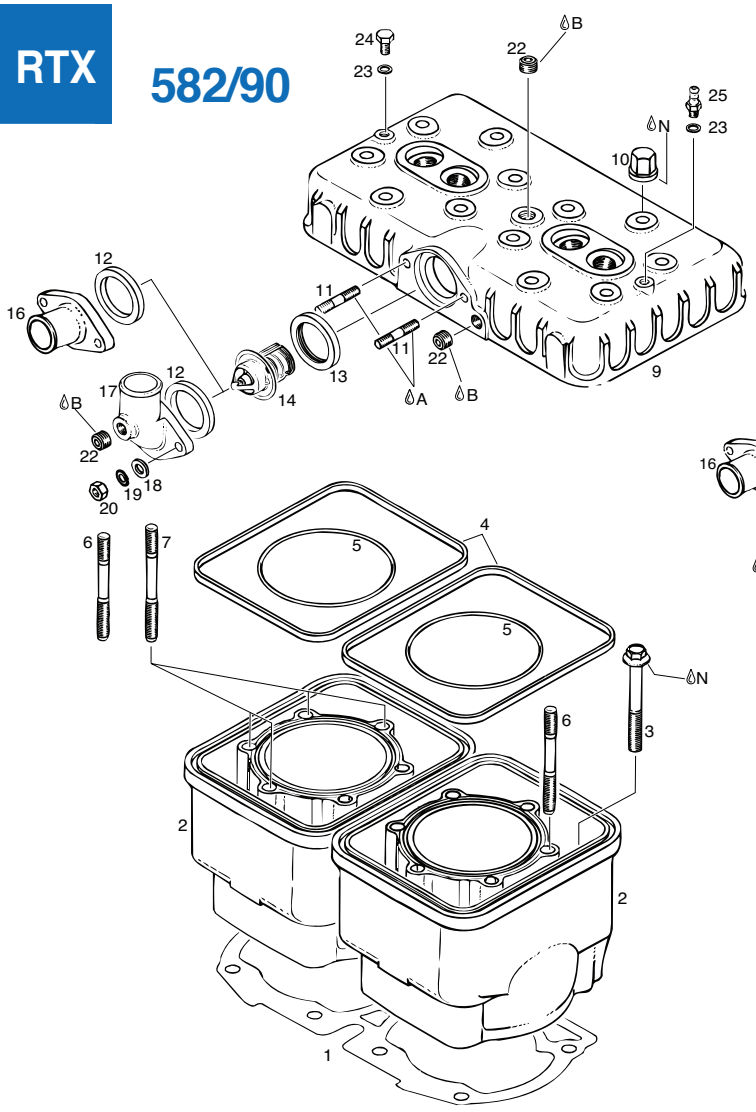
CRANKCASE, MAIN BEARINGS, PISTONS

NO	STATUS	PART #	DESCRIPTION	QTY mod.90	QTY mod.99	PRICE	NO	STATUS	PART #	DESCRIPTION	QTY mod.90	QTY mod.99	PRICE
1-15		887-051	CRANKSHAFT ASSY.	1	1	**$1,413.83**	15		246-055	WOODRUFF KEY 3X3,7 DIN 6888	1	1	**$3.54**
2	N	827-441	SPACER RING 30,5/42/2	1	1	**$7.94**	16		945-759	LOCK WASHER 22	1	1	**$1.68**
3		832-209	B. BEARING 6206 N TVH, 30-62-16	2	2	**$68.50**	17	N	842-239	HEX. NUT M22X1,5	1	1	**$12.25**
4		830-355	O-RING 49,2-1,8	2	2	**$5.26**	18-20		888-590	PISTON ASSY. 75,94/75,95 MM	2ab	2ab	**$210.95**
5		827-715	STOP SHIM 30,4/51/1	1	1	**$3.15**	18-20		888-591	PISTON ASSY. 76,19/76,20 MM	2ac	2ac	**$226.74**
6		830-748	OIL SEAL 30X62X7/7,5	1	1	**$34.94**	18-20		888-592	PISTON ASSY. 76,44/76,45 MM	2ad	2ad	**$226.74**
7		827-760	DISTANCE RING 35,5/47/2	1	1	**$6.71**	19		215-200	RECTANGULAR RING 76,00 MM	2e	2e	**$56.81**
8		832-231	B. BEARING 6207N TNH C3 35-72-17	2	2	**$79.38**	19		215-201	RECTANGULAR RING 76,25 MM	2f	2f	**$63.16**
9		250-165	O-RING 64-2	2	2	**$5.09**	19		215-202	RECTANGULAR RING 76,5 MM	2g	2g	**$63.16**
10		830-293	LABYRINTH SLEEVE	1	1	**$58.64**	20		915-820	SEMI-TRAPEZ RING 76,0 MM	2e	2e	**$88.29**
11		830-370	O-RING 63-2,5	1	1	**$6.66**	20		915-821	SEMI-TRAPEZ RING 76,25 MM	2f	2f	**$94.64**
12		831-950	OIL SEAL 35X72X7/8,5	1	1	**$37.50**	20		915-822	SEMI-TRAPEZ RING 76,5 MM	2g	2g	**$94.64**
13-14		832-320	CAGEL. NEEDLE BEARING 18X22X23	2	2	**$54.32**	21		916-136	PISTON PIN 18X11X53,7	2	2	**$45.85**
14		827-465	THRUST WASHER 18/21,7/2,5	4	4	**$13.47**	22		845-540	MONOHOOK CIRCLIP 18	4hi	4hi	**$1.87**

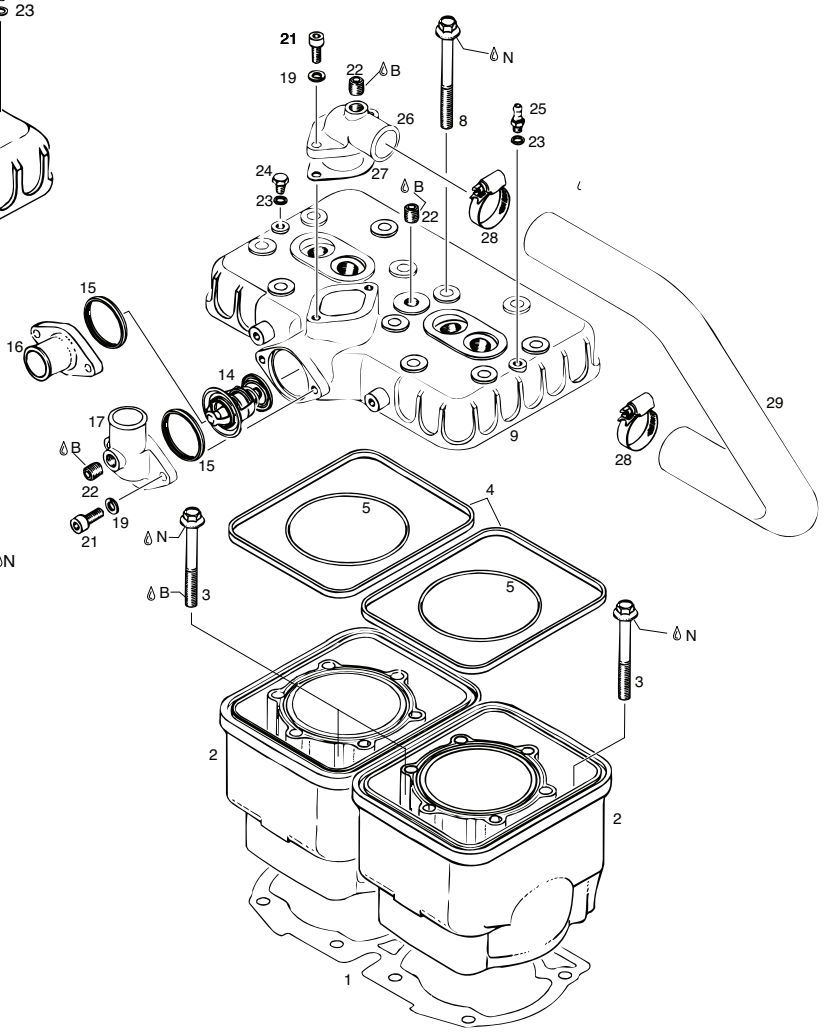
a FROM ENGINE S/N 582 UL MOD. 90: 5,236.549 PISTON FOR MONOHOOK CIRCLIP CONFIGURATION (SEE ALSO SI-2ST-001)
b WITH 2 RINGS, STANDARD RED 75,94 MM GREEN 75,95 MM
c WITH 2 RINGS, 1ST OVERSIZE RED 76,19 MM GREEN 76,20 MM
d WITH 2 RINGS, 2ND OVERSIZE RED 76,44 MM GREEN 76,45 MM
e STANDARD SIZE
f 1ST OVERSIZE
g 2ND OVERSIZE
h IN USE WITH PISTON PART NO. 888590 (SEE ALSO SI-2ST-001)
i NOTICE USE ONLY ONCE.

RTX

582/90



582/99



A: LOCTITE 221 - P/N 899-785
B: LOCTITE 243 - P/N 897-651
N: MULTI-PURPOSE GREASE LZ

CYLINDERS, CYLINDER HEAD

NO	STATUS	PART #	DESCRIPTION	QTY mod.90	QTY mod.99	PRICE
1		850-775	DOUBLE GASKET 0,5 MM	1	1	$23.99
2		913-448	CYLINDER WITH SLEEVE	2a	2a	$1,206.30
3		640-951	COLLAR HEX.SCREW M8X68,5 SW 11	8	8	$5.01
4		850-040	RUBBER RING 152,5X2,5X5	2	2	$7.66
5		850-540	O-RING 83X2	2	2	$24.49
6		941-390	STUD M8X79	12b		$6.99
6		941-390	STUD M8X79	8c		$6.99
7		240-490	STUD M8X84	4c		$10.21
8		841-308	COLLAR HEX.SCREW M8X65 SW11		12d	$6.86
9		913-310	CYLINDER HEAD	1		$795.42
9		913-845	CYLINDER HEAD		1	$795.42
10		842-471	COLLAR CAP NUT M8	12		$7.11
11		941-080	STUD M6X20/10	2		$5.37
12		230-980	GASKET	1		$5.75
13-14		222-014	THERMOSTAT WITH GASKET	1		$130.85
13		230-800	GASKET	1		$26.09

NO	STATUS	PART #	DESCRIPTION	QTY mod.90	QTY mod.99	PRICE
14-15		922-511	THERMOSTAT WITH GASKET		1	$95.96
16		922-025	WATER OUTLET SOCKET	1	1	$32.37
17		922-061	BENT OUTLET SOCKET	1	1	$51.94
18		244-211	WASHER 6,4 DIN 134	2		$0.18
19		945-751	LOCK WASHER A6 DIN 128	2	2	$0.16
20		242-211	HEX.NUT M6	2	2	$0.39
21	N	241-939	ALLEN SCREW M6X20 DIN 912		2	$1.16
22		240-483	PLUG SCREW 1/8-27NPT	3	3	$7.88
23		230-415	SEALING RING A 6X10 DIN 7603	2	2	$1.34
24		841-580	HEX. SCREW M6X8	1	1	$0.53
25	N	940-551	HOSE NIPPLE M6	1	1	$16.70
26		922-061	BENT OUTLET SOCKET		1	$51.94
27		850-338	GASKET		1	$7.11
28		951-880	CLAMP 20-32		2	$5.98
29		922-521	MOLDED HOSE_25/180 DEGREE		1	$72.75

a RED 76,00 MM - 76,01 MM
GREEN 76,01 MM - 76,02 MM
b FOR CONFIGURATION WITHOUT 2-PIECE RADIATOR.
c FOR CONFIGURATION WITH 2-PIECE RADIATOR.
d USABLE FOR CONFIGURATION WITH- AND WITHOUT 2-PIECE RADIATOR.

CPS CALIFORNIA POWER SYSTEMS

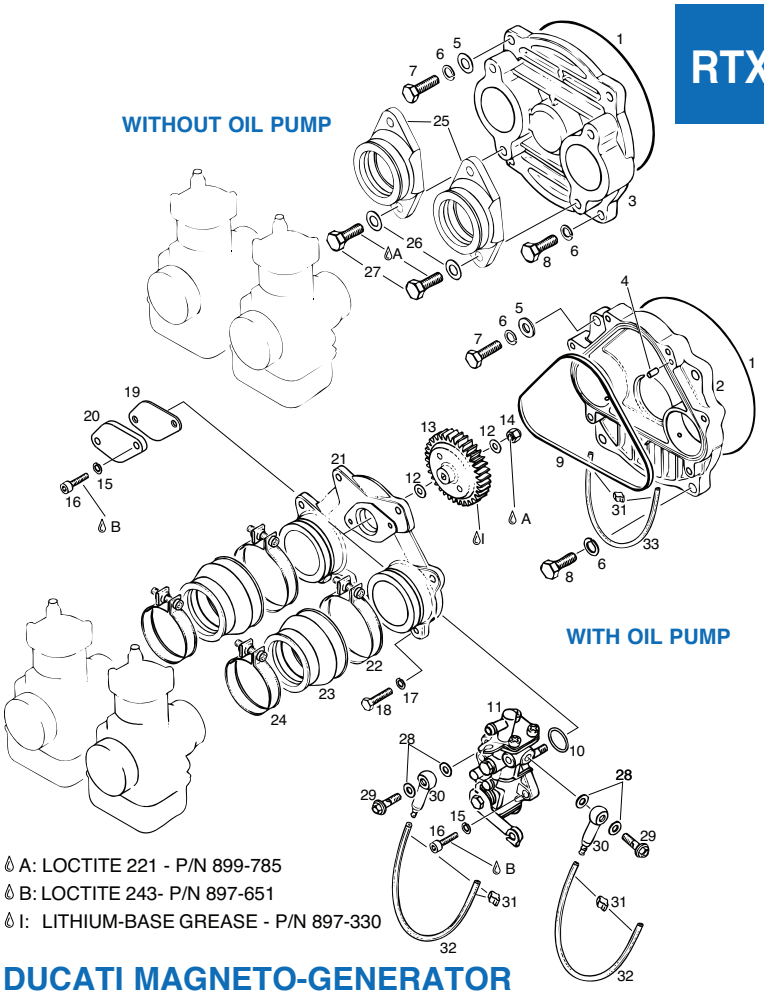
RTX

ROTARY VALVE COVER, OIL PUMP DRIVE, OIL PUMP

NO	STATUS	PART #	DESCRIPTION	QTY mod.90	QTY mod.99	PRICE
1		831-360	O-RING 132-1,7	1	1	$14.87
2		811-940	ROTARY VALVE COVER ASSY.	1c	1c	$337.26
3		912-949	ROTARY VALVE COVER	1a		$408.50
4		929-560	DOWEL TUBE 2X8	1	1	$3.11
5		250-311	WASHER 8,4 DIN 125	2	2	$0.39
6		945-752	LOCK WASHER A8	4	4	$0.18
7		240-276	HEX. SCREW M8X25	2	2	$1.18
8		940-591	HEX.SCREW M8X20	2	2	$1.16
9		831-700	RUBBER RING 126X1,5X3,5	1	1	$5.44
10		230-370	O-RING 18-1,3	1	1	$3.05
11		995-527	OIL PUMP ASSY.,	1	1	$245.05
12		927-945	WASHER 6,2/12/1	2	2	$1.47
13		935-940	OIL PUMP GEAR 44 T.,	1	1	$25.35
14		842-042	LOCK NUT M6	1	1	$2.52
15		945-750	LOCK WASHER A5	2	2	$0.14
16		240-761	SLOTTED HEAD SCREW M5X16	2		$0.14
16		940-561	HEX.SCREW M6X20		2	$0.63
17		945-751	LOCK WASHER A6 DIN 128	7	7	$0.16
18		940-561	HEX.SCREW M6X20	7	7	$0.16
19		931-566	GASKET	1a	1a	$5.44
20		810-825	COVER PLATE	1a	1a	$17.84
21		910-320	PUMP MOUNTING FLANGE	1	1	$192.36
22		851-065	CLAMP 62	2	2	$10.76
23		867-696	CARBURETOR SOCKET	2	2	$28.43
24		951-400	HOSE CLAMP 53	2	2	$10.30
25		267-785	RUBBER FLANGE CPL.	2		$112.24
26		250-311	WASHER 8,4 DIN 125	4		$0.39
27		940-591	HEX.SCREW M8X20	4		$1.16
28		227-500	GASKET RING 6,2/12/1	4	4	$1.39
29		241-830	BANJO BOLT M6X16	2	2	$6.66
30		956-010	CHECK VALVE ASSY.,	2	2	$24.28
31		853-840	CLAMP 3-5 MM	AR	AR	$2.15
32-33		960-040	OIL LINE 2,2+/-0,1X4,3+0,4	ARb	ARb	$4.62*
			960-040 SOLD IN METER LENGTHS. FOR CORRECT LENGTHS NEEDED, SEE DESCRIPTION OF INDIVIDUAL PARTS. SEE BELOW.			
32		960-040	OIL LINE 170 MM	2b	2b	*
33		960-040	OIL LINE 120 MM	1b	1b	*

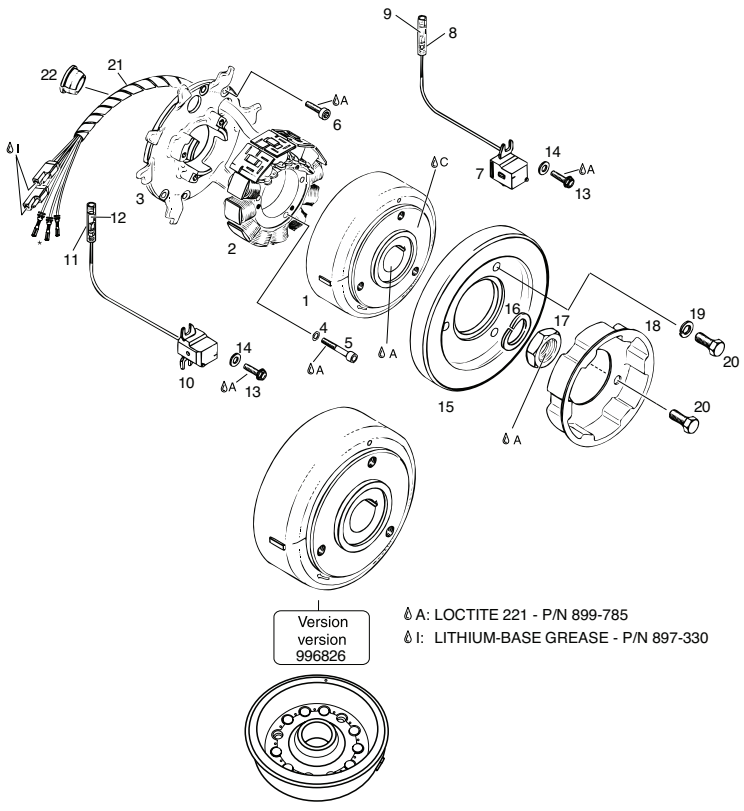
a FOR CONFIGURATION WITHOUT OILPUMP
b IN A ROLL
c FROM ENGINE S/N: 5,381.289

*** CALL FOR PRICING!**



A: LOCTITE 221 - P/N 899-785
B: LOCTITE 243- P/N 897-651
I: LITHIUM-BASE GREASE - P/N 897-330

DUCATI MAGNETO-GENERATOR 12V 170W, STARTING PULLEY



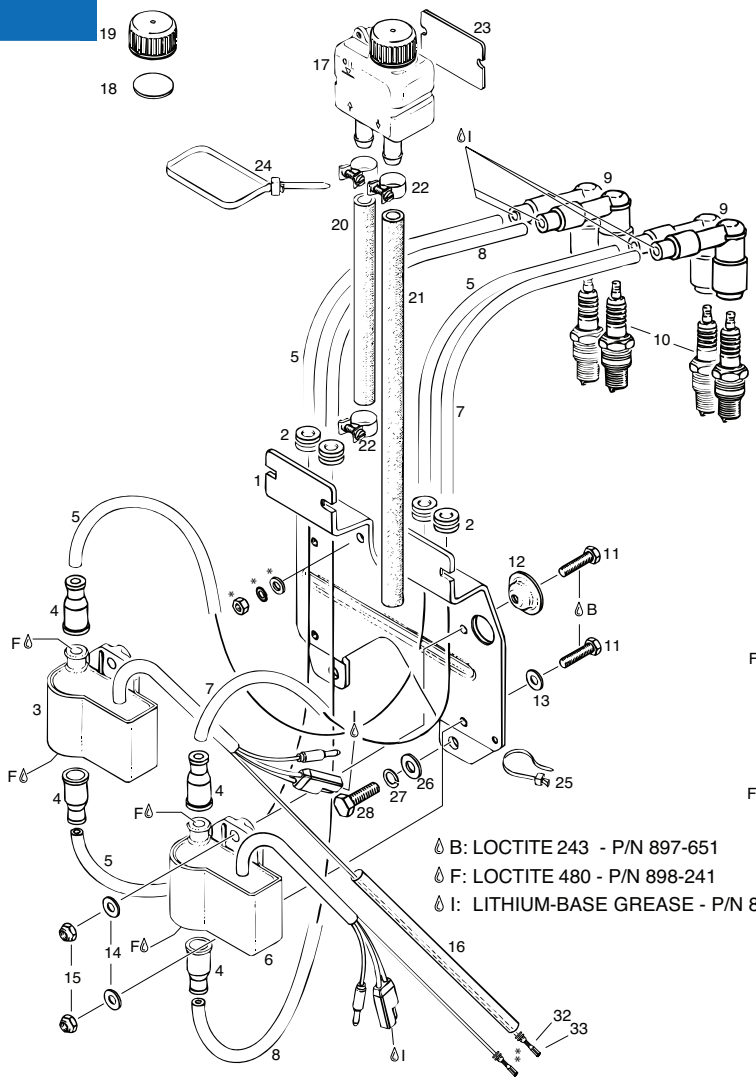
A: LOCTITE 221 - P/N 899-785
I: LITHIUM-BASE GREASE - P/N 897-330

NO	STATUS	PART #	DESCRIPTION	QTY mod. 90	QTY mod. 99	PRICE
1		996-826	MAGNETO FLYWHEEL P12W170	1	1	$612.47
2		996-849	COIL KIT	1	1	$713.80
3		966-207	STATOR PLATE	1	1	$172.89
4		945-750	LOCK WASHER A5	2	2	$0.14
5		940-880	ALLEN SCREW M5X30	3	3	$0.86
6		641-521	TORX-ZYLINDER HEAD SCREW M5X16	2g	2g	$2.00
7-9		965-769	PICKUP ASSY.	1b	1b	$161.11
8		964-072	INSULATION SHEATH	1	1	$2.15
9		964-067	FASTON CONNECTOR 3,96	1	1	$2.15
10-12		965-761	PICK UP	1c	1c	$149.62
11		964-072	INSULATION SHEATH	1	1	$2.15
12		964-067	FASTON CONNECTOR 3,96	1	1	$2.15
13		941-925	TAPTITE SCREW M5X16	4	4	$1.18
14		827-800	WASHER A 5,5 DIN 6902	4	4	$0.39
15		965-497	HYDRO DAMPER ASSY.,	1a	1a	$360.07
16		945-759	LOCK WASHER 22	1	1	$1.68
17		842-239	HEX. NUT M22X1,5	1	1	$12.25
18		852-422	STARTING PULLEY	1d		$38.72
18		852-410	STARTING PULLEY	1e		$38.72
18		852-411	STARTING PULLEY		1	$38.72
19		945-752	LOCK WASHER A8	3g		$0.18
20		940-580	HEX.SCREW M8X16 DIN 933	3d		$0.99
20		940-591	HEX.SCREW M8X20	3e	3	$0.99
21		966-060	SPIRAL HOSE 6,5X8,5X0,6	ARf	ARf	$10.25*
			THIS ITEM CAN USE 11-12316(SOLD PER FOOT)			
22		960-288	CABLE GROMMET 20,5/11	1	1	$9.03

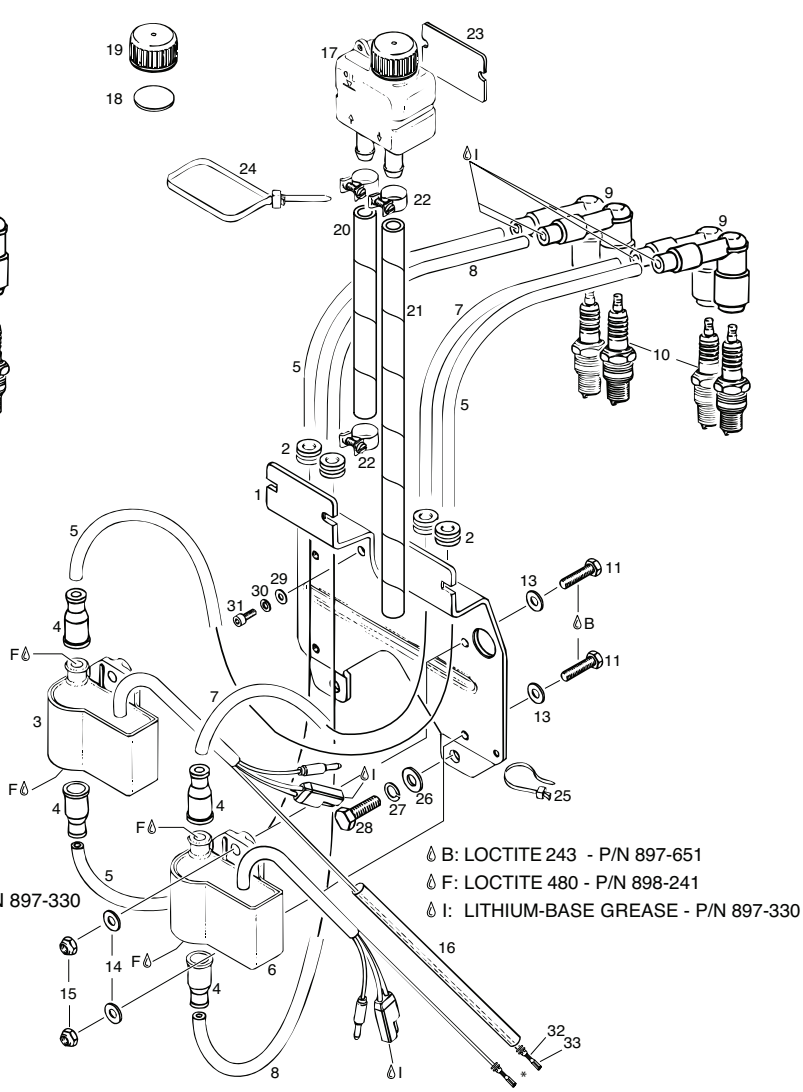
a FROM ENGINE S/N
582 UL DCDI MOD. 90: 4,015.239
582 UL DCDI MOD.99:
AT SERIAL PRODUCTION
b FOR IGNITON CIRCUIT 1
c FOR IGNITON CIRCUIT 2
d UP TO ENGINE S/N
582 UL DCDI MOD. 90: 4,015.238
e FROM ENGINE S/N
582 UL DCDI MOD. 90: 4,015.239
f IN A ROLL.
g WITHOUT REWIND STARTER

RTX

582/90



582/99



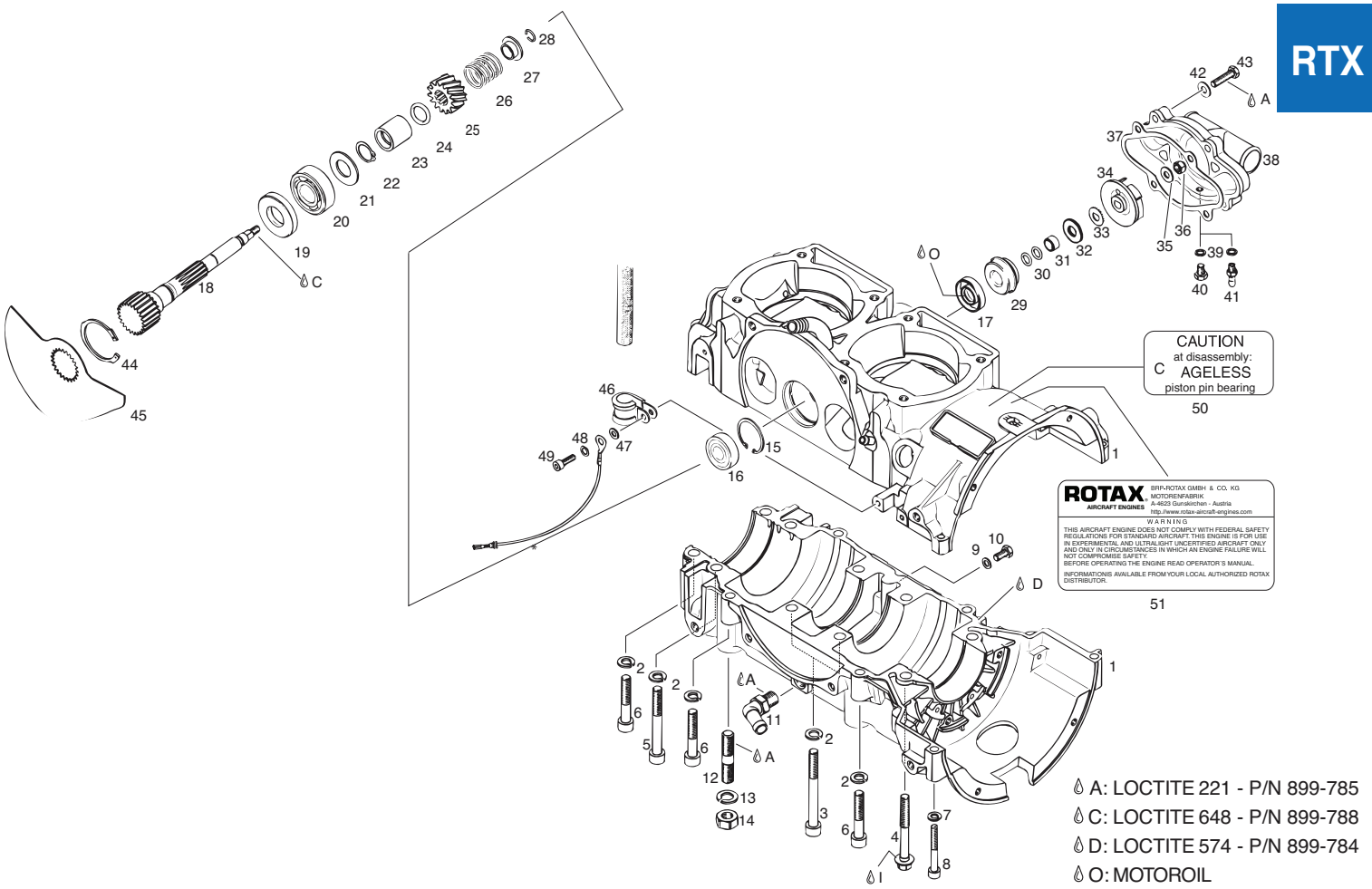
OIL TANK, IGNITION COILS, SUPPORT PLATE

NO	STATUS	PART #	DESCRIPTION	QTY mod.90	QTY mod.99	PRICE
1		951-615	SUPPORTING PLATE	1		$130.20
1		951-617	SUPPORTING PLATE		1	$180.52
2		960-445	GROMMET	4	4	$4.72
3		966-462	ELECTRONIC BOX	1a	1a	$361.94
4		960-550	PROTECTION CAP	4	4	$3.05
5,7,8		965-153	IGNITION CABLE 1,5/7 MM	ARd	ARd	$14.95
			965-153 SOLD IN METER LENGTHS. FOR CORRECT LENGTHS NEEDED, SEE DESCRIPTION OF INDIVIDUAL PARTS BELOW.			
5		965-153	IGNITION CABLE 360 MM	2ad	2ad	*
6		966-467	ELECTRONIC BOX	1b	1b	$372.95
7			IGNITION CABLE 180 MM	1bd	1bd	*
8			IGNITION CABLE 440 MM	1bd	1bd	*
9		866-705	SUPPRESSED SPARK PLUG CONNECTOR	4	4	$25.09
10		897-055	SPARK PLUG 14 MM, NGK BR 8 ES	4	4	$2.45
11		240-036	HEX. SCREW M6X25 DIN 933	4	4	$0.81
12		827-815	DISTANCE CAP	1		$9.39
13		244-211	WASHER 6,4 DIN 134	2	4	$0.18
14		244-211	WASHER 6,4 DIN 134	4	4	$0.18
15		842-042	LOCK NUT M6	4	4	$2.52
16		960-187	PROTECTION HOSE 170 MM	1	1	$2.52
17-19		956-240	OIL TANK ASSY.,	1	1	$75.46
18		850-350	RUBBER GASKET 26,5 MM	1	1	$4.20
19		956-250	OIL TANK CAP S 103/2D	1	1	$10.97

NO	STATUS	PART #	DESCRIPTION	QTY mod.90	QTY mod.99	PRICE
20-21		956-230	LOW PRESSURE HOSE GC 9X14	ARd		$51.29
20			OIL HOSE 155 MM	1d		$51.29
21			OIL HOSE 360 MM	1d		$51.29
20-21		956-140	LOW PRESSURE HOSE OLN(E)		ARd	$67.41
			956-140 SOLD IN METER LENGTHS. FOR CORRECT LENGTHS NEEDED, SEE DESCRIPTION OF INDIVIDUAL PARTS BELOW.			
20		956-140	HOSE 155 MM		1d	*
21		956-140	HOSE 360 MM		1d	*
22		951-260	CLAMP 14	4		$4.72
22		853-726	CLAMP MINI 16 W1		4	$4.72
23		860-425	RUBBER SPACER	1	1	$4.72
24		951-500	CLAMP 381X4,8 MM	1	1	$5.04
25		866-710	CLAMP 142X2,5 MM	1c	1c	$1.18
26		250-311	WASHER 8,4 DIN 125	2	2	$0.39
27		945-752	LOCK WASHER A8	2	2	$0.18
28		240-276	HEX. SCREW M8X25	2	2	$1.18
29		244-211	WASHER 6,4 DIN 134		2	$0.18
30		945-751	LOCK WASHER A6 DIN 128		2	$0.16
31		241-236	ALLEN SCREW M6X16		2	$0.63
32		260-130	CABLE GROMMET		2	$2.15
33		265-275	FASTON CONNECTOR		2	$2.33

a IN A ROLL
b THE FIX THE CABLE HARNESS
c FOR IGNITON CIRCUIT 1
d FOR IGNITON CIRCUIT 2

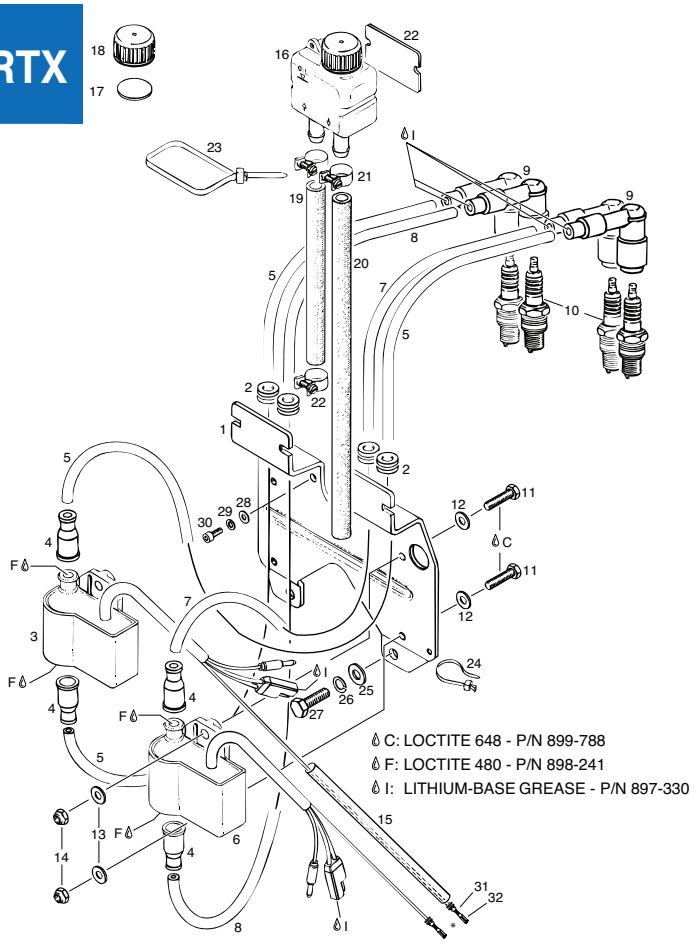
*** CALL FOR PRICING!**



CRANKCASE, ROTARY VALVE DRIVE, WATER PUMP

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1	N.A.	886-406	CRANCASE ASSY.,	1	**NLA**
2		945-752	LOCK WASHER A8	12	**$0.18**
3		841-831	ALLEN SCREW M8X75	4	**$3.15**
4		841-306	COLLAR HEX. SCREW M8X65 SW 11	2	**$5.01**
5		841-841	ALLEN SCREW M8X65 DIN 912	2	**$2.28**
6		841-561	ALLEN SCREW M8X45	6	**$0.37**
7		945-751	LOCK WASHER A6 DIN 128	2	**$0.16**
8		241-821	ALLEN SCREW M6X45 DIN 912	2	**$0.63**
9		230-415	GASKET RING A 6X10 DIN 7603	1	**$1.34**
10		240-771	HEX.SCREW M6X10	1	**$0.53**
11		922-242	ANGULAR TUBE 1/4-18NPT	1	**$16.97**
12		940-190	STUD M10X29/20	4	**$4.54**
13		945-753	LOCK WASHER A10	4	**$0.27**
14		242-091	HEX.NUT M10	4	**$1.18**
15		845-150	RETAINING RING 30X1,2	1	**$1.81**
16		932-330	BALL BEARING 16101-Z	1	**$37.40**
17		850-975	OIL SEAL A 12X30X7 NBR	1	**$29.33**
18		837-246	ROTARY VALVE SHAFT	1	**$245.49**
19		930-580	OIL SEAL 20X40X7	1	**$24.62**
20		932-032	BALL BEARING 6203 TVH C3,17-40-12	1	**$31.41**
21		227-439	SHIM 17, 2/32, 5/1, 5	1	**$4.20**
22		845-450	RETAINING RING 17X1	1	**$1.16**
23		847-282	SPACER	1	**$14.09**
24		831-500	O-RING 14-3	1	**$4.62**
25		935-736	ROTARY VALVE GEAR 14 T.	1	**$96.70**
26		938-810	COMPRESSION SPRING 25,1 MM	1	**$8.86**

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
27		827-430	SPRING HOLDING CUP	1	**$11.37**
28		845-160	CIRCLIP 12	1	**$1.63**
29		850-942	ROTARY SEAL	1	**$80.83**
30		430-800	O-RING 8X2	2	**$5.25**
31		847-810	ROTARY SEAL SLEEVE	1	**$20.58**
32		944-382	SHIM 12,1/18, 5/0, 5	1	**$1.47**
33		227-155	FRICTION WASHER	1	**$9.39**
34		922-036	IMPELLER	1	**$23.23**
35		244-211	WASHER 6,4 DIN 134	1	**$0.18**
36		842-042	LOCK NUT M6	1	**$2.52**
37		831-616	GASKET	1	**$8.70**
38		922-503	WATER PUMP HOUSING	1	**$242.14**
39		230-415	GASKET RING 6, 2/8, 9/1	1	**$1.34**
40		841-580	HEX. SCREW M6X8	1	**$0.53**
41		940-551	HOSE NIPPLE M6	1	**$16.70**
42		244-211	WASHER 6,4 DIN 134	4	**$0.18**
43		240-036	HEX. SCREW M6X25 DIN 933	4	**$0.81**
44		945-880	RETAINING RING 40X1,75	1	**$3.05**
45	N.A.	924-507	ROTARY VALVE 151 DEGR.	1	**$64.07**
46		851-250	CABLE CLAMP 15/M5	1	**$6.49**
47		827-800	WASHER A 5,5 DIN 6902	1	**$0.39**
48		945-750	LOCK WASHER A5	1	**$0.14**
49		840-511	ALLEN SCREW M5X16	1	**$0.48**
50		897-280	CAGELESS-LABEL	1	**$1.68**
51		897-501	RED WARNING LABEL	1	**$6.31**



OIL TANK, IGNITION COILS, SUPPORT PLATE

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		951-617	SUPPORTING PLATE	1	$180.52
2		960-445	GROMMET	4	$4.72
3		966-462	ELECTRONIC BOX ASSY.,	1c	$361.94
4		960-550	PROTECTION CAP	4	$3.05
5,7,8		965-153	IGNITION CABLE 1,5/7 MM 965-153 SOLD IN METER LENGTHS. FOR CORRECT LENGTHS NEEDED, SEE DESCRIPTION OF INDIVIDUAL PARTS BELOW.	ARa	$14.95*
5		965-153	IGNITION CABLE 360 MM	2	*
7		965-153	IGNITION CABLE 440 MM	1	*
8		965-153	IGNITION CABLE 180 MM	1	*
6		966-467	ELECTRONIC BOX ASSY.,	1d	$372.95
9		866-705	SUPPRESSED SPARK PLUG CONNECTOR	4	$25.09
10		897-055	SPARK PLUG 14 MM, NGK BR 8 ES	4	$2.45
11		240-036	HEX. SCREW M6X25 DIN 933	2	$0.81
12		244-211	WASHER 6,4 DIN 134	2	$0.18
13		244-211	WASHER 6,4 DIN 134	4	$0.18
14		842-042	LOCK NUT M6 WAS - 842-040	4	$2.52
15		960-187	PROTECTION HOSE 170 MM	1	$2.52
16-18		956-240	OIL TANK ASSY.,	1	$75.46
17		850-350	RUBBER GASKET 26,5 MM	1	$4.20
18		956-250	OIL TANK CAP S 103/2D	1	$10.97
19-20		956-230	OIL PRESSURE HOSE GC 9X14 956-230 SOLD IN METER LENGTHS. FOR CORRECT LENGTHS NEEDED, SEE DESCRIPTION OF INDIVIDUAL PARTS BELOW.	ARa	$51.29*
19		956-230	OIL HOSE 165 MM	1a	$51.29
20		956-230	OIL HOSE 360 MM	1a	$51.29
21		951-260	CLAMP 14	4	$4.72
22		860-425	RUBBER SPACER	1	$4.72
23		951-500	CLAMP 381X4,8 MM	1	$5.04
25		250-311	WASHER 8,4 DIN 125	2	$0.39
26		945-752	LOCK WASHER A8	2	$0.18
27		240-276	HEX. SCREW M8X25	2	$1.18
28		244-211	WASHER 6,4 DIN 134	2	$0.18
29		945-751	LOCK WASHER A6 DIN 128	2	$0.16
30		241-236	ALLEN SCREW M6X16	2	$0.63
31		964-072	INSULATION SHEATH	2	$2.15
32		964-067	FASTON CONNECTOR 3,96	2	$2.15

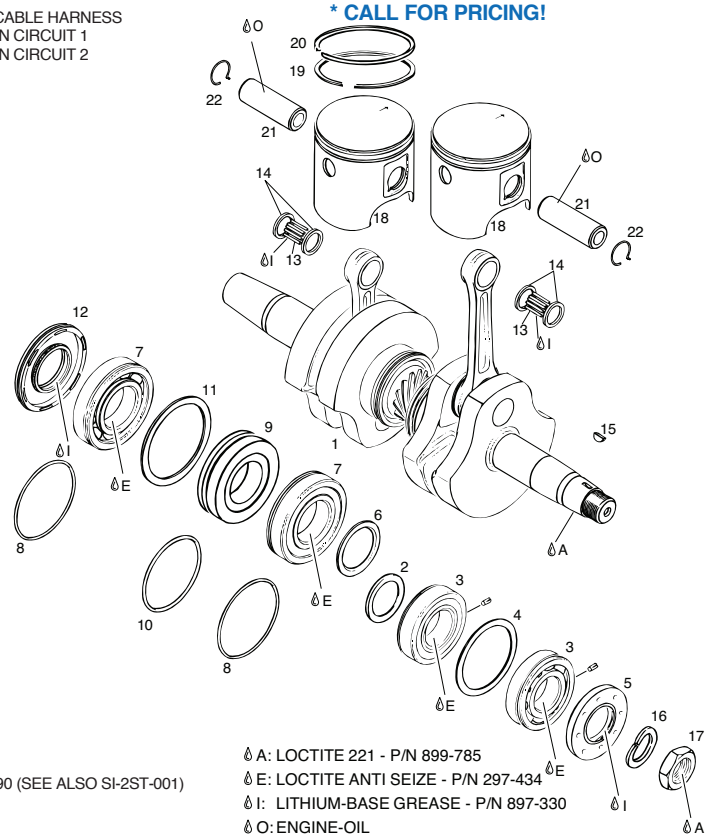
a IN A ROLL
b TO FIX THE CABLE HARNESS
d FOR IGNITION CIRCUIT 1
d FOR IGNITION CIRCUIT 2

CRANKSHAFT, BEARINGS, PISTON

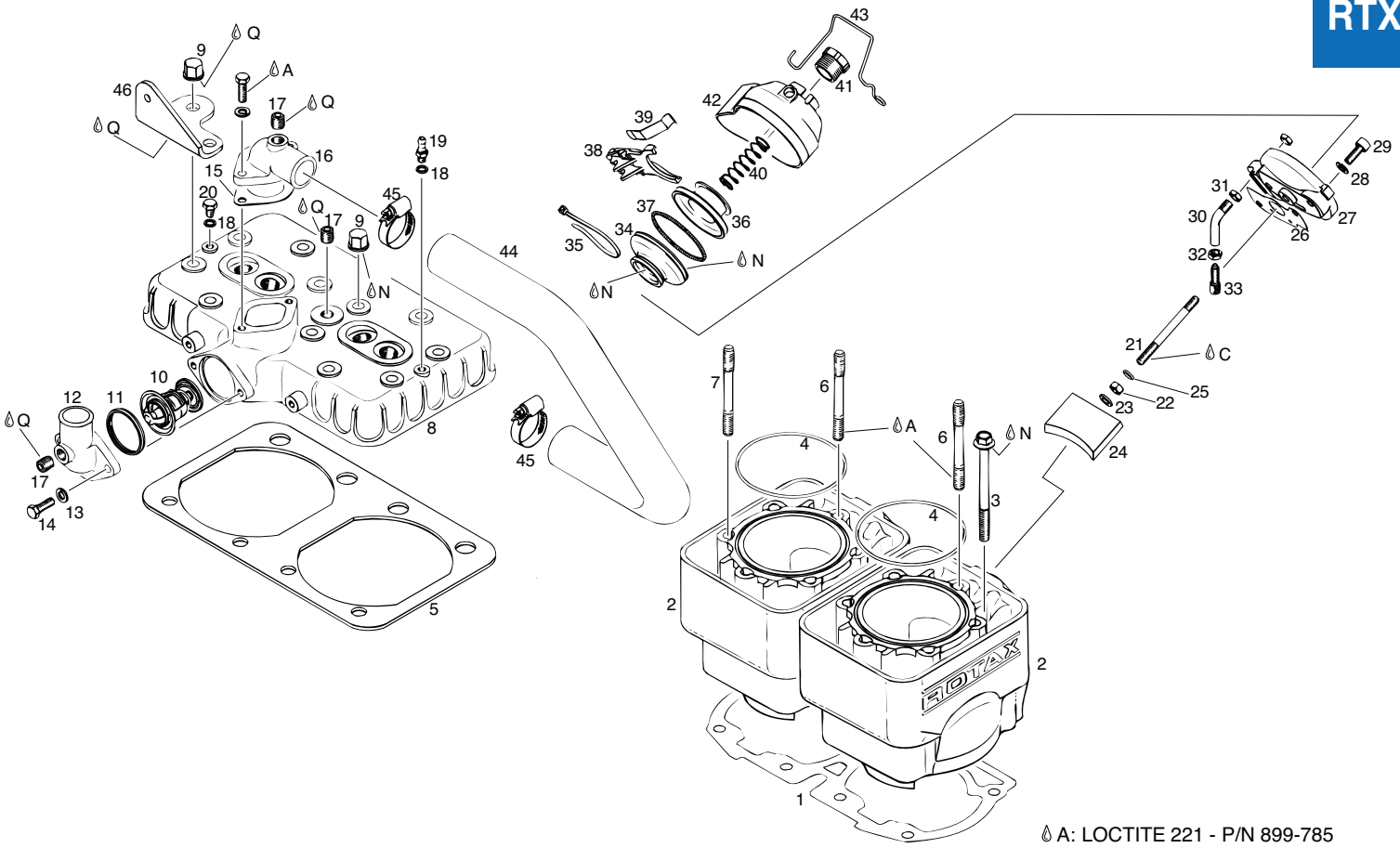
NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1-15	N.A.	886-631	CRANKSHAFT ASSY.	1	$1,419.69
2		827-445	DISTANCE RING 31/42/1, 5	1	$8.31
3		832-538	BALL BEARING 6206 TVH C4M ASSY.,	1	$69.79
4		827-050	RETAINING DISK 55/65/1,5	1	$5.71
5		830-748	OIL SEAL 30X62X7/7,5	1	$34.94
6		827-767	DISTANCE RING 35,5/47/1,5	1	$6.09
7		832-231	B. BEARING 6207N TNH C3 35-72-17	2	$79.38
8		250-165	O-RING 64-2	2	$5.09
9		830-296	LABYRINTH SLEEVE	1	*
10		830-370	O-RING 63-2,5	1	$6.66
11		927-710	RETAINING DISK 64/75/2	1	$5.98
12		831-950	OIL SEAL 35X72X7/8,5	1	$37.50
13-14		832-320	CAGEL. NEEDLE BEARING 18X22X23	2	$54.32
14		827-465	THRUST WASHER 18/21,7/2,5	4	$13.47
15		246-015	WOODRUFF KEY 3X5	1	$3.15
16		945-759	LOCK WASHER 22	1	$1.68
17		842-239	HEX. NUT M22X1,5	1	$12.25
18-20		888-590	PISTON ASSY. 75,94/75,95 MM	2ab	$210.95
18-20		888-591	PISTON ASSY. 76,19/76,20 MM	2ac	$226.74
19		215-200	RECTANGULAR RING 76,00 MM	2e	$56.81
19		215-201	RECTANGULAR RING 76,25 MM	2f	$63.16
19		215-202	RECTANGULAR RING 76,5 MM	2g	$63.16
20		915-820	SEMI-TRAPEZ RING 76,0 MM	2e	$88.29
20		915-821	SEMI-TRAPEZ RING 76,25 MM	2f	$94.64
20		915-822	SEMI-TRAPEZ RING 76,5 MM	2g	$94.64
21		916-137	PISTON PIN 18X10X53,7	2	$85.17
22		845-540	MONOHOOK CIRCLIP 18	4hi	$1.87

*** CALL FOR PRICING!**

*** CALL FOR PRICING!**



a PISTON FOR MONOHOOK CIRCLIP CONFIGURATION SEE SI-2ST-001
b WITH 2 RINGS, STANDARD RED 75,94 MM GREEN 75,95 MM
c WITH 2 RINGS, 1ST OVERSIZE RED 76,19 MM GREEN 76,20 MM
NOTICE 2ND OVERSIZE NOT PERMITTED (SEE SI-08-1996)
e STANDARD SIZE
f 1ST OVERSIZE
g 1ST OVERSIZE
h IN USE WITH PISTON PART NO. 888590 (SEE ALSO SI-2ST-001)
i USE ONLY ONCE.



CYLINDER, CYLINDER HEAD, EXHAUST VALVE

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE	NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		931-181	DOUBLE GASKET 0,5 MM	1	**$20.06**	24	N.A.	854-058	EXHAUST VALVE 76 MM	2	**$221.78**
2	N.A.	913-400	CYLINDER WITH SLEEVE	2a	**NLA**	25		230-260	O-RING 6X3	2	**$4.07**
3		440-366	COLLAR HEX. SCREW M8X90 A/F 11	8	**$5.22**	26		230-256	GASKET	2	**$4.07**
4		850-540	O-RING 83X2	2	**$24.49**	27		253-367	VALVE ROD HOUSING	2	**$202.76**
5		850-560	RUBBER GASKET	1	**$56.02**	28		845-020	SPRING WASHER B6	4	**$0.39**
6	N.A.	841-881	STUD M8X75	2	**$8.61**	29		241-236	ALLEN SCREW M6X16	4	**$0.63**
7		240-490	STUD M8X84	10	**$10.21**	30	N.A.	268-935	PIPE BEND	2	**$34.68**
8	N.A.	913-840	CYLINDER HEAD	1	**NLA**	31		942-810	HEX. SCREW M7X0,75	4	**$1.97**
9		842-471	COLLAR CAP NUT M8	12	**$7.11**	32		942-541	HEX. NUT M6X0,75 HIGHT 3 MM	2	**$1.03**
10-11		922-511	THERMOSTAT WITH GASKET	1	**$95.96**	33		241-440	ADJUSTMENT SCREW M6X0,75	2	**$3.85**
11	S.V.	931-270	THERMOSTAT GASKET	1	**$17.59**	34		260-723	BELLOWS	2	**$51.60**
12		922-061	BENT OUTLET SOCKET	1	**$51.94**	35		866-710	CLAMP 142X2,5 MM	2	**$1.18**
13		945-751	LOCK WASHER A6 DIN 128	4	**$0.16**	36		854-440	EXHAUST VALVE PISTON	2	*
14		940-561	HEX.SCREW M6X20	4	**$0.63**	37		239-043	HOSE SPRING 134-2,3-0,4-0,0	2	**$10.76**
15		850-338	GASKET	1	**$7.11**	38	N.A.	248-245	VALVE LEVER	2	**$54.21**
16		922-061	BENT OUTLET SOCKET	1	**$51.94**	39	N.A.	239-995	SPRING	2	**$14.30**
17		240-480	PLUG SCREW 1/8-27NPT	3	**$5.22**	40	N.A.	239-946	COMPRESSION SPRING 42 / 1,O MM	2	*
18		230-415	SEALING RING A 6X10 DIN 7603	2	**$1.34**	41		241-220	ADJUSTMENT SCREW	2	**$15.07**
19		940-551	HOSE NIPPLE M6	1	**$16.70**	42	N.A.	210-335	VALVE COVER	2	**$51.07**
20		841-580	HEX. SCREW M6X8	1	**$0.53**	43	N.A.	239-035	SPRING CLIP	2	**$21.08**
21	N.A.	253-242	VALVE ROD	2	**$30.08**	44		922-521	MOLDED HOSE_25/180 DEGREE	1	**$72.75**
22		242-031	HEX.NUT BM6	2	**$0.81**	45		951-880	CLAMP 20-32	2	**$5.98**
23		244-211	WASHER 6,4 DIN 134	2	**$0.18**	46		851-129	INTAKE SILENCER BR	1	**$35.70**

a RED 76,00 MM - 76,01 MM
GREEN 76,01 MM - 76,02 MM

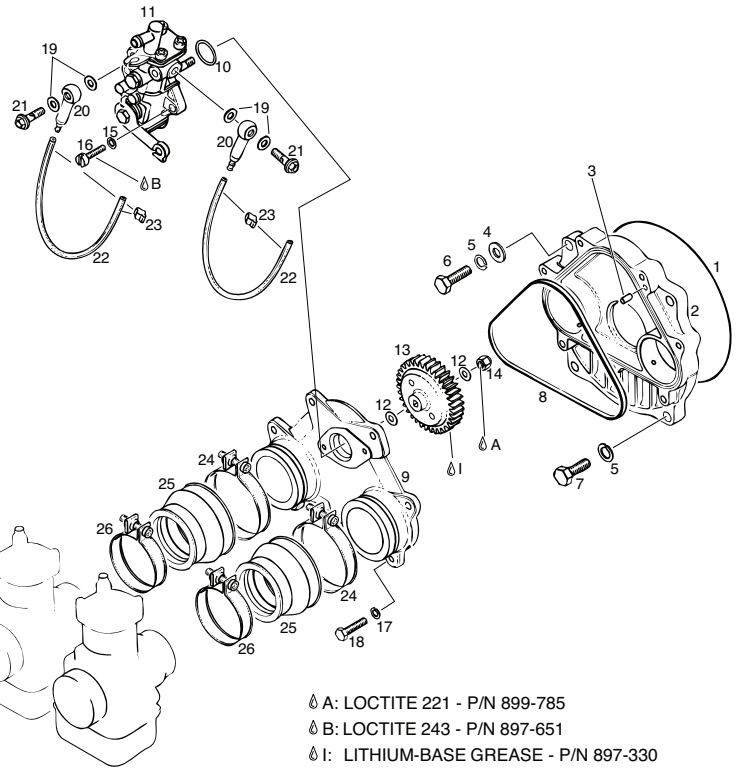
*** CALL FOR PRICING!**

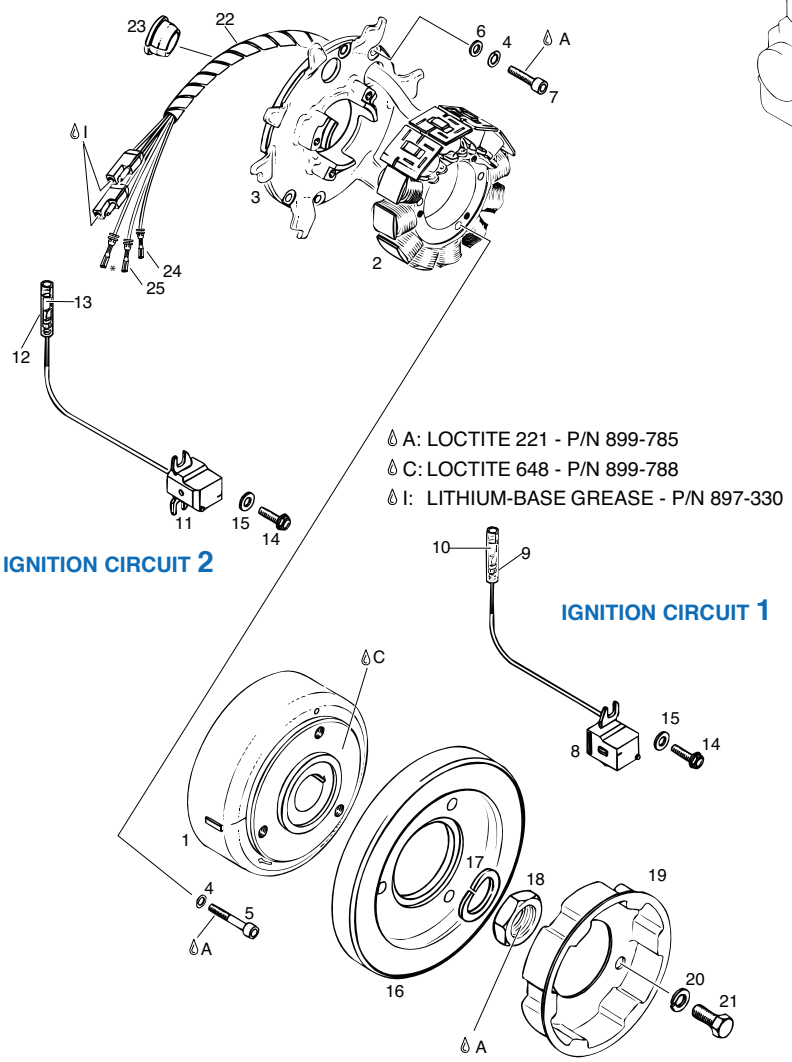
RTX

ROTARY VALVE COVER, OIL PUMP DRIVE, OIL PUMP

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1		831-360	O-RING 132-1,7	1	$14.87
2	N.A.	910-318	ROTARY VLAVE COVER ASSY.,	1	$335.65
3		929-650	DRIVE PIN 5X10 DIN 1474	1	$1.16
4		250-311	WASHER 8,4 DIN 125	2	$0.39
5		945-752	LOCK WASHER A8	4	$0.18
6		240-276	HEX. SCREW M8X25	2	$1.18
7		940-591	HEX.SCREW M8X20	2	$1.16
8		831-700	RUBBER RING 126X1,5X3,5	1	$5.44
9		910-320	PUMP MOUNTING FLANGE	1	$192.36
10		230-370	O-RING 18-1,3	1	$3.05
11		995-527	OIL PUMP ASSY.,	1	$245.05
12		927-945	WASHER 6,2/12/1	2	$1.47
13		935-940	OIL PUMP GEAR 44 T.,	1	$25.35
14		842-042	LOCK NUT M6	1	$2.52
15		945-750	LOCK WASHER A5	2	$0.14
16		240-761	SLOTTED HEAD SCREW M5X16	2	$0.53
17		945-751	LOCK WASHER A6 DIN 128	7	$0.16
18		940-561	HEX.SCREW M6X20	7	$0.63
19		227-500	GASKET RING 6,2/12/1	4	$1.39
20		956-010	CHECK VALVE ASSY.,	2	$24.28
21		241-830	BANJO BOLT M6X16	2	$6.66
22		960-040	OIL LINE 2,2+/-0,1X4,3+0,4	ARa	$4.62
23		853-840	CLAMP 3-5 MM	4	$2.15
24		851-065	CLAMP 62	2	$10.76
25		867-696	CARBURETOR SOCKET	2	$28.43
26		951-400	HOSE CLAMP 53	2	$10.30

a IN A ROLL

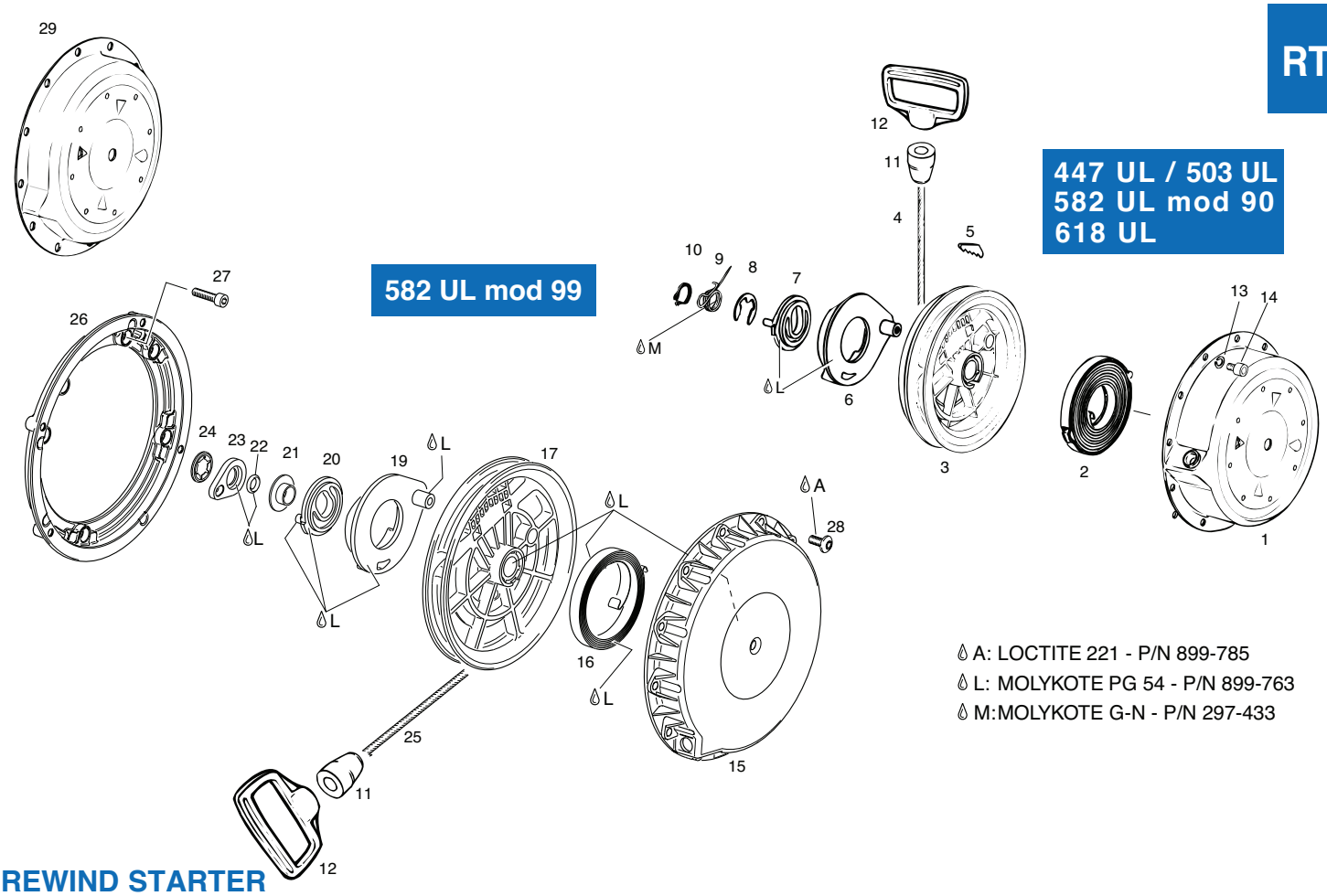




DUCATI MAGNETO-GENERATOR 12V 200W, STARTING PULLEY

NO	STATUS	PART #	DESCRIPTION	QTY	PRICE
1-2	N.A.	886-621	MAGNETO GENERATOR P12W200	1	NLA
1	N.A.	996-827	MAGNETO FLYWHEEL P12W200	1	$572.26
2	N.A.	996-848	COIL KIT P12W200	1	NLA
3		966-207	STATOR PLATE	1	$172.89
4		945-750	LOCK WASHER A5	5	$0.14
5	N.A.	841-506	ALLEN SCREW M5X35	3	$1.29
6		927-571	WASHER 5,3	2	$0.18
7	N.A.	840-515	ALLEN SCREW M5X18	2	$0.94
8-10		965-769	PICKUP ASSY.	1a	$161.11
9		964-072	INSULATION SHEATH	1	$2.15
10		964-067	FASTON CONNECTOR 3,96	1	$2.15
11-13		965-761	PICKUP ASSY.,	1b	$149.62
12		964-072	INSULATION SHEATH	1	$2.15
13		964-067	FASTON CONNECTOR 3,96	1	$2.15
14		941-925	TAPTITE SCREW M5X16	4	$1.18
15		827-800	WASHER A 5,5 DIN 6902	4	$0.39
16		965-497	HYDRO DAMPER ASSY.,	1	$360.07
17		945-759	LOCK WASHER 22	1	$1.68
18		842-239	HEX. NUT M22X1,5	1	$12.25
19		852-410	STARTING PULLEY	1	$38.72
20		945-752	LOCK WASHER A8	3	$0.18
21		940-591	HEX.SCREW M8X20	3	$1.16
22		966-060	SPIRAL HOSE 6,5X8,5X0,6 *THIS ITEM CAN USE 11-12316(SOLD PER FOOT)	ARc	$10.25*
22			SPIRAL HOSE 70 MM	1	$10.25
23		960-289	CABLE GROMMET 20,5/13	1	$9.03
24		260-130	CABLE GROMMET	2	$2.15
25		265-275	FASTON CONNECTOR	2	$2.33

a FOR IGNITION CIRCUIT 1
b FOR IGNITION CIRCUIT 2
c IN A ROLL



REWIND STARTER

NO	STATUS	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-12		994-839	REWIND STARTER ASSY.,	1a	1a	1a		1a	$367.05
1-12		995-583	REWIND STARTER ASSY.	1d	1d	1d		1d	$381.26
2	N	939-078	REWIND SPRING ASSY.,	1	1	1		1	$47.42
3		852-283	ROPE SHEAVE	1	1	1		1	$75.19
4		852-094	STARTER ROPE 5,5X30000	ARf	ARf	ARf		ARf	$1.00
4			STARTER ROPE 5,5X1700 MM	1a	1a	1a		1a	*
4			STARTER ROPE 5,5X2600 MM	1b	1b	1b		1b	*
4			STARTER ROPE 5,5X3200 MM	1c	1c	1c		1c	*
4			STARTER ROPE 5,5X3700 MM	1d	1d	1d		1d	*
5		852-070	KEY CLAMP	1	1	1		1	$4.15
6		852-290	PAWL	1	1	1		1	$25.03
7		852-305	PAWL LOCK	1	1	1		1	$14.82
8		845-300	RETAINING RING 15	1	1	1		1	$2.15
9		938-986	LOCKING SPRING	1	1	1		1	$2.15
10		945-770	SNAP RING AV 17	1	1	1			$1.29
11		960-415	RUBBER BUFFER	1	1	1	1	1	$9.98
12	N	852-177	STARTER GRIP	1	1	1	1	1	$28.21
13		945-751	LOCK WASHER A6 DIN 128	4	4	4	4		$0.16
14		241-236	ALLEN SCREW M6X16	4	4	4	4		$0.63

NO	STATUS	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
11,12,15-25	N	892-800	REWIND STARTER SET				1eg		*
11,12	N	892-802	REWIND STARTER SET				1dg		$343.41
15-25	N	939-078	REWIND SPRING ASSY.,	1	1	1		1	$47.42
15	N	910-251	STARTER HOUSING				1		$106.96
16	N	939-115	REWIND SPRING				1		$47.42
17		852-286	ROPE SHEAVE				1g		$66.19
19	N	852-630	PAWL				1		*
20	N	852-304	PAWL LOCK				1		*
21	N	847-926	STEP COLLAR				1		$11.80
22		250-400	O-RING 12X3,5				1		$3.15
23		852-520	LOCK LEVER				1		$4.02
24		845-560	LOCKING ELEMENT				1		$2.28
25		852-094	STARTER ROPE 5,5X30000				ARf		$1.00
25			STARTER ROPE 5,3X2200				1e		*
25			STARTER ROPE 5,5X3700 MM				1d		*
26		810-866	CONNECTING FLANGE				1		$101.36
27		241-231	ALLEN SCREW M6X16				4		$1.34
28		941-256	TAPTITE SCREW M6X20 T				4		$1.98
29	S.V.	810-380	IGNITION COVER	1	1	1	1	1	$88.29

a STARTER ROPE 1700 MM
b STARTER ROPE 2600 MM
c STARTER ROPE 3200 MM
d STARTER ROPE 3700 MM
e STARTER ROPE 2200 MM
f IN METERWARE IN A ROLL.
g MODIFIED ROPE FIXATION: KNOT INSTEAD OF KEY CLAMP (FROM S/N 5.742.150)

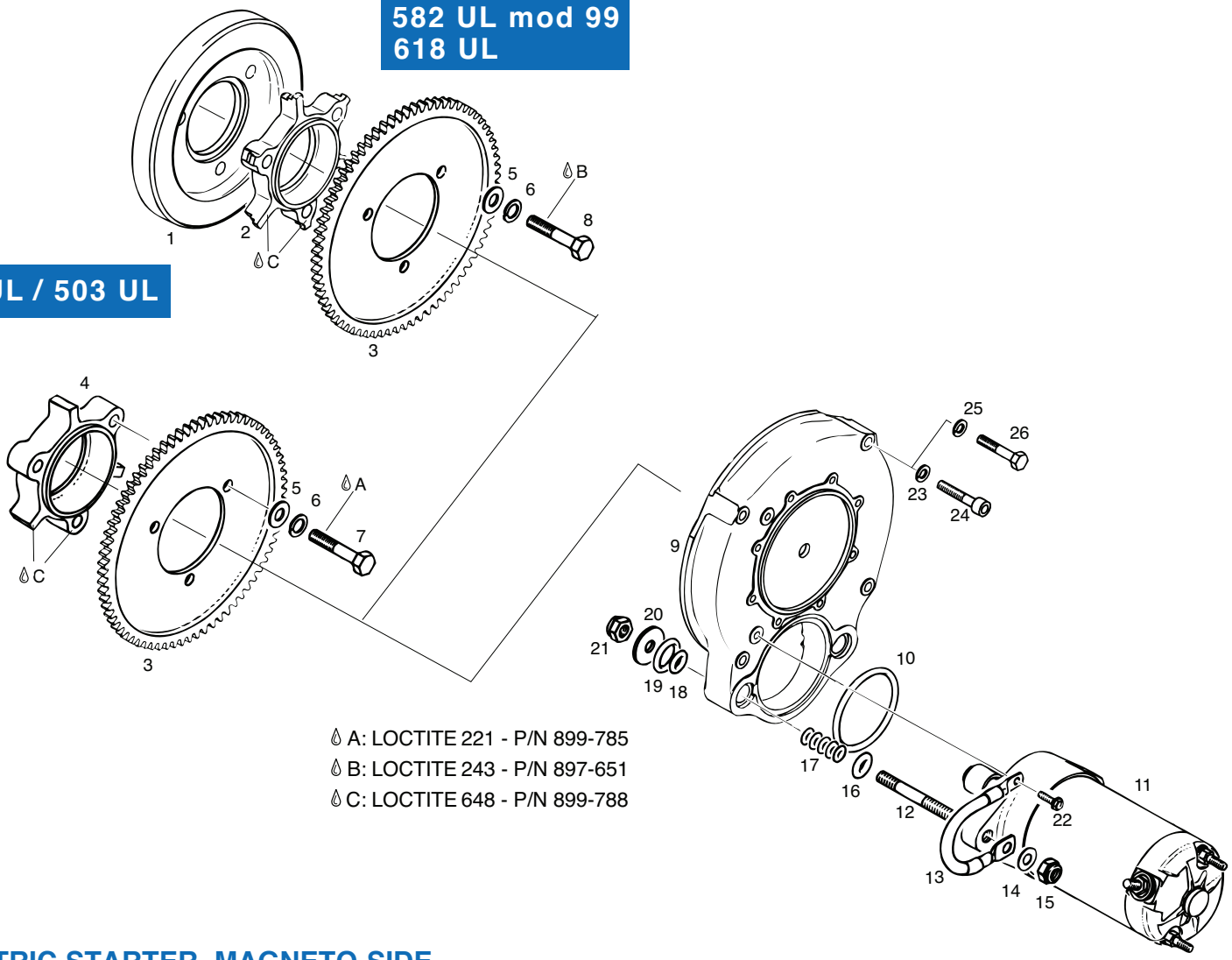
*** CALL FOR PRICING!**

NOTICE WHEN USING NEW REWIND STARTER WITTHOUT KNOT USE NEW ROPE SHEAVE (17)

RTX

582 UL mod 90
582 UL mod 99
618 UL

447 UL / 503 UL



A: LOCTITE 221 - P/N 899-785
B: LOCTITE 243 - P/N 897-651
C: LOCTITE 648 - P/N 899-788

ELECTRIC STARTER, MAGNETO-SIDE

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE	NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	965-497	HYDRO DAMPER ASSY.,			1a	1b	1b	$360.07	13	966-031	MASS CABLE 80 MM ASSY.,	1	1	1	1	1	$35.27
2	852-374	STARTER GEAR ADAPTER			1d			$129.95	14	944-038	WASHER 8,4/14/1	1	1	1	1	1	$1.34
2	852-378	STARTER GEAR ADAPTER			1a	1b	1b	$129.95	15	942-030	LOCK NUT M8	2c	2c	2c	2c	2c	$2.28
3	834-053	STARTER GEAR 61 T.,	1	1	1	1	1	$290.48	16	850-585	O-RING 8X5	2	2	2	2	2	$4.38
4	852-370	STARTER GEAR ADAPTER	1	1				$129.95	17	230-260	O-RING 6X3	10	10	10	10	10	$4.07
5	250-311	WASHER 8,4 DIN 125	3	3	3	3	3	$0.39	18	850-580	O-RING 8X4	2	2	2	2	2	$4.20
6	945-752	LOCK WASHER A8	3	3	3	3	3	$0.18	19	850-590	O-RING 16-4	2	2	2	2	2	$5.01
7	940-490	HEX.SCREW M8X35	3	3				$1.47	20	827-910	WASHER 8,2/26,3/2	2	2	2	2	2	$3.67
8	940-616	HEX. SCREW M8X40			3	3	3	$1.52	21	942-030	LOCK NUT M8	2c	2c	2c	2c	2c	$2.28
9-22	995-920	ELECTRIC STARTER SET	1	1	1	1	1	$1,294.03	22	941-935	TAPTITE SCREW M5X8	1	1	1	1	1	*
9	910-731	STARTER COVER	1	1	1	1	1	$421.74	23	945-751	LOCK WASHER A6 DIN 128		4				$0.16
10	850-390	O-RING 60-4	1	1	1	1	1	$9.39	24	241-816	ALLEN SCREW M6X40 DIN 912		4				$1.34
11	995-430	ELECTRIC STARTER ASSY.,	1	1	1	1	1	$787.22	25	445-331	LOCK WASHER VHZ 6	4		4	4	4	$0.53
12	841-950	STUD M8X43/23	2	2	2	2	2	$10.76	26	240-631	HEX.SCREW M6X40	4		4	4	4	$1.16

a AB MOTORNUMMER FROM ENGINE S/N
582 UL MOD. 90: 4,015.239
b FROM BEGINNING OF SERIAL PRODUCTION
c TIGHTEN TO LEAVE 1MM DISTANCE BETWEEN STARTER COVER AND ELECTRIC STARTER
d AT 582UL MOD. 90 TUNIL ENGINE S/N 4.015.238 (WITHOUT HYDRO DAMPER ASSY.)

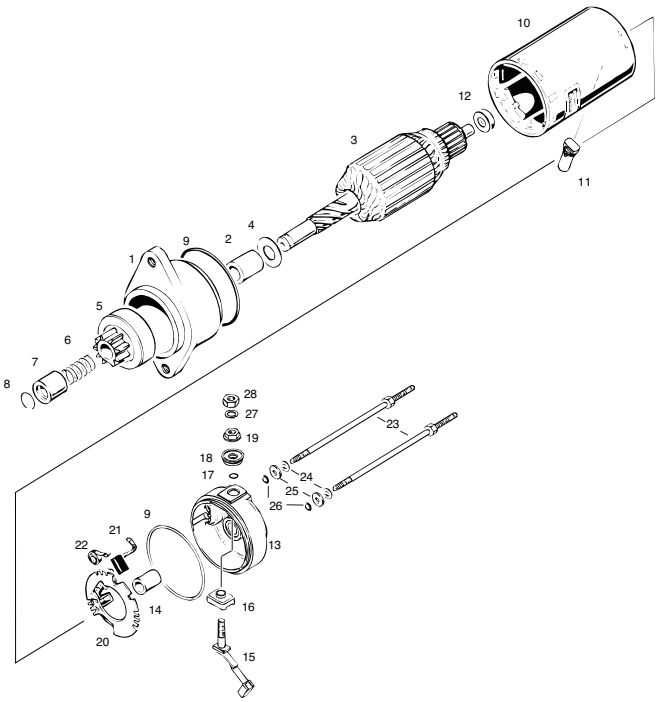
*** CALL FOR PRICING!**

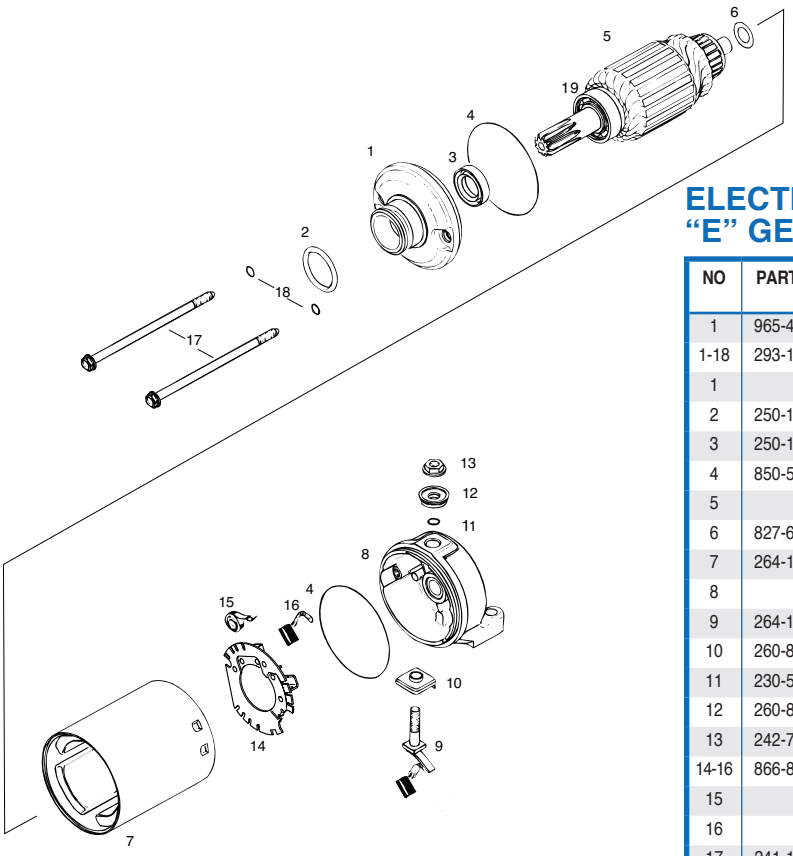
RTX

ELECTRIC STARTER-SINGLE PARTS, MAGNETO-SIDE

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-26	995-430	ELECTRIC STARTER ASSY.,	1	1	1	1	1	$787.22
1-2	866-880	DRIVE HOUSING ASSY.,	1	1	1	1	1	$187.91
2		BUSHING	1a	1a	1a	1a	1a	NLA
3	866-870	ROTOR ASSY.,	1	1	1	1	1	$463.74
4	927-057	THRUST WASHER 15,3/24/1	1	1	1	1	1	$5.09
5	866-850	OVERRUNNING-CLUTCH DRIVE ASSY.,	1	1	1	1	1	$322.15
6	939-030	SPRING	1	1	1	1	1	$16.34
7	927-040	STOP COLLAR	1	1	1	1	1	$35.06
8	845-360	CIRCLIP	1	1	1	1	1	$4.38
9	850-500	O-RING 62-1,5	2	2	2	2	2	$10.85
10	866-860	YOKE ASSY.,	1	1	1	1	1	$297.70
11	860-600	VENTING RUBBER	1	1	1	1	1	$10.48
12	827-600	SHIM	AR	AR	AR	AR	AR	$4.72
13		END FRAME WITH SLEEVE	1b	1b	1b	1b	1b	NLA
14		BUSHING	1c	1c	1c	1c	1c	NLA
15	866-892	CARBON BRUSH WITH SCREW	1	1	1	1	1	$70.65
16	260-820	ISOLATING BUSHING	1	1	1	1	1	$9.20
17	230-530	O-RING 6X1,7	1	1	1	1	1	$2.81

a BUSHING, NOT AVAILABLE AS SPARE PART, USE DRIVE HOUSING ASSY. 866880.
b END FRAME WITH SLEEVE, NOT AVAILABLE AS SPARE PART, USE END FRAME ASSY. 866900.
c BUSHING, NOT AVAILABLE AS SPARE PART, USE DRIVE HOUSING ASSY. 866900.
d BRUSH, NOT AVAILABLE AS SPARE PART, USE BRUSH HOLDER ASSY. 866890.
e SPRING, NOT AVAILABLE AS SPARE PART, USE BRUSH HOLDER ASSY. 866890.





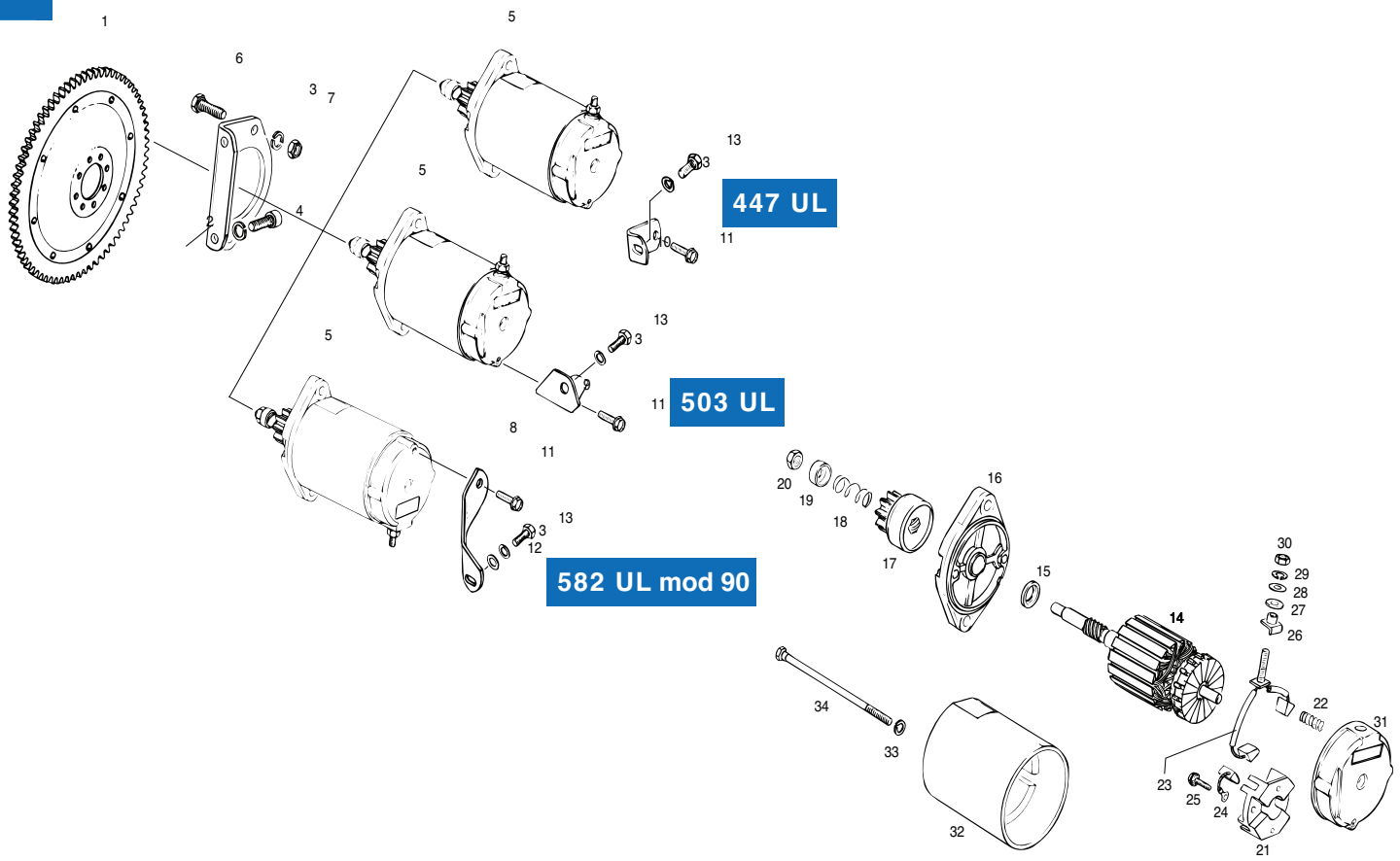
ELECTRIC STARTER-SINGLE PARTS, "E" GEARBOX

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	965-497	HYDRO DAMPER ASSY.,			1a	1b	1b	$360.07
1-18	293-153	ELECTRIC STARTER ASSY.	1	1	1	1	1	$739.41
1		SUPPORT	1	1	1	1	1	*
2	250-140	O-RING DIN 3771-24,4X3,1-N NBR70	1	1	1	1	1	$6.81
3	250-130	OIL SEAL 15X24X5 NBR	1	1	1	1	1	$21.86
4	850-500	O-RING 62-1,5	2	2	2	2	2	$10.85
5		ROTOR ASSY.,	1	1	1	1	1	*
6	827-600	SHIM	AR	AR	AR	AR	AR	$4.72
7	264-151	STATOR YOKE ASSY.	1	1	1	1	1	$249.12
8		ROTOR SUPPORT ASSY.	1	1	1	1	1	*
9	264-184	CARBON BRUSH ASSY.	1	1	1	1	1	$104.82
10	260-810	CONNECTOR SHEATH	1	1	1	1	1	$9.20
11	230-530	O-RING 6X1,7	1	1	1	1	1	$2.81
12	260-800	CONNECTOR SHEATH	1	1	1	1	1	$7.94
13	242-780	COMBINED NUT M6	1	1	1	1	1	$3.86
14-16	866-891	BRUSH HOLDER WITH SPRING	1	1	1	1	1	$70.65
15		SPRING	1a	1a	1a	1a	1a	NLA
16		BRUSH	1a	1a	1a	1a	1a	NLA
17	241-137	HEX. COLLAR SCREW M5X100	2	2	2	2	2	$15.83
18	850-510	O-RING 4,7X1,4	2	2	2	2	2	$5.23
19	232-260	B. BEARING R6002 Z	1	1	1	1	1	$26.73

a BRUSH, NOT AVAILABLE AS SPARE PART, USE BRUSH HOLDER ASSY. 866891.

*** CALL FOR PRICING!**

RTX



ELECTRIC STARTER-SINGLE PARTS, PTO-SIDE

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE	NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	935-828	STARTER GEAR 86 T. ASSY.			1a			NLA	14-34	992-805	ELECTRIC STARTER ASSY.,	1	1	1			NLA
1	935-821	STARTER GEAR 86 T.,			1b			$308.65	14	866-165	ROTOR ASSY.,	1	1	1			NLA
1	935-957	STARTER GEAR 77 T. ASSY.,	1a	1a				NLA	18-20	866-672	PINION SPRING SET	1	1	1			NLA
1	935-810	STARTER GEAR 77 T.,	1b	1b				NLA	21-31	866-555	END FRAME ASSY.,	1	1	1			NLA
2	853-735	STARTER BRACKET			1			$70.34	21		BRUSH HOLDER	1c	1c	1c			NLA
2	853-765	STARTER BRACKET		1				NLA	22		SPRING	4c	4c	4c			NLA
2	853-760	STARTER BRACKET	1					$66.09	23		BRUSH WITH SCREW ASSY.	1c	1c	1c			NLA
3	945-752	LOCK WASHER A8	5	5	5			$0.18	24		CARBON BRUSH	1c	1c	1c			NLA
4	240-081	ALLEN SCREW M8X25 DIN 912	2	2	2			$1.18	25		COMBINED SCREW	2c	2c	2c			NLA
5	992-805	ELECTRIC STARTER ASSY.,	1	1	1			$1.18	26	866-540	ISOLATING PLATE	1	1	1			NLA
6	240-276	HEX. SCREW M8X25	2	2	2			$1.18	27		INSULATING WASHER	1c	1c	1c			NLA
7	242-209	HEX. NUT M8	2	2	2			$0.53	28	244-211	WASHER 6,4 DIN 134	1c	1c	1c			$0.18
8	951-175	STARTER SUPPORT			1			$18.74	29	945-751	LOCK WASHER A6 DIN 128	1	1	1			$0.16
9	853-775	STARTER SUPPORT		1				*	30	842-430	HEX. NUT 1/4	1	1	1			$21.33
10	853-890	STARTER SUPPORT	1					$19.73	31		CAP AND BEARING ASSY.	1c	1c	1c			NLA
11	841-510	TAPTITE SCREW 1/4-20UNCX3/4	1	1	1			$2.00	32	866-175	YOKE ASSY.,	1	1	1			$96.50
12	250-311	WASHER 8,4 DIN 125		1				$0.39	33	945-751	LOCK WASHER A6 DIN 128	2	2	2			$0.16
13	940-580	HEX. SCREW M8X16	1	1	1			$0.99	34	841-395	HEX.	2	2	2			$8.61

a WITH RING GEAR HOLDER
b WITHOUT RING GEAR HOLDER
c BRUSH HOLDER, NOT AVAILABLE AS SPARE PART, USE END FRAME ASSY. 866555.

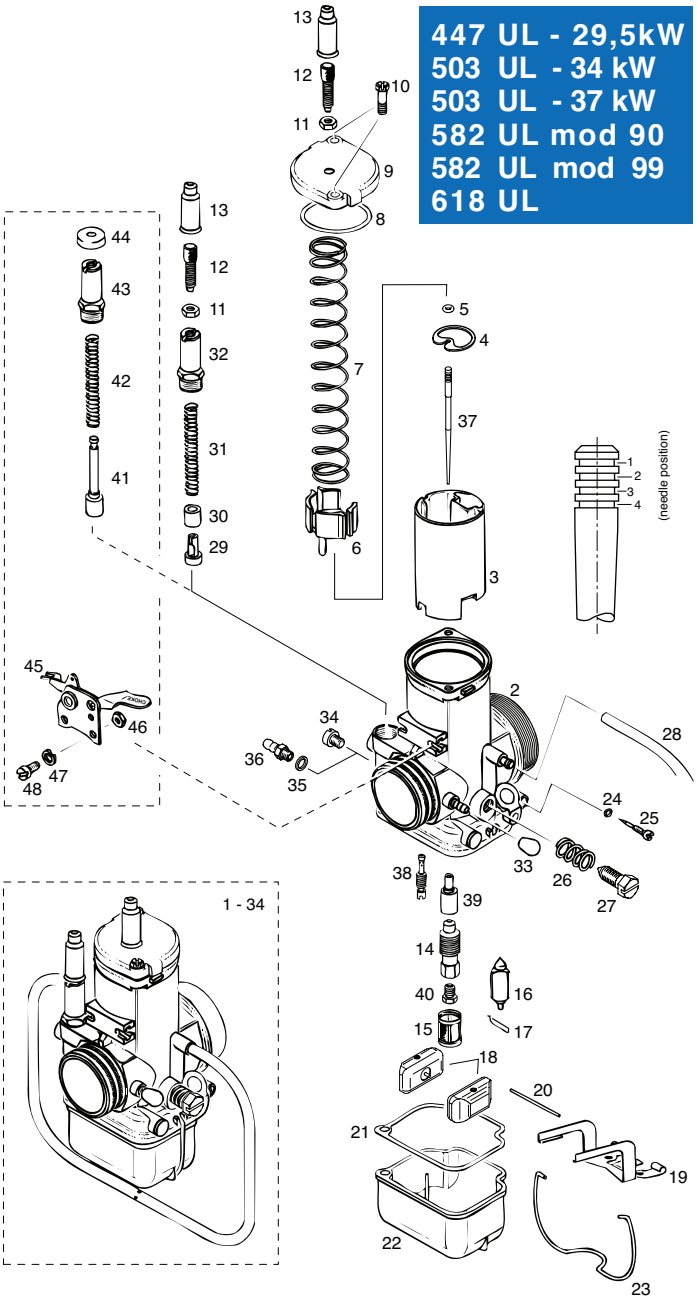
*** CALL FOR PRICING!**

BING DOUBLE-FLOAT CARBURETOR 36 MM, MODEL 96

RTX

447 UL - 29,5kW
503 UL - 34 kW
503 UL - 37 kW
582 UL mod 90
582 UL mod 99
618 UL

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-34	887-823	CARBURETOR 54/36/20	1a	1a				$434.00
1-34	887-838	CARBURETOR 54/36/21			1b	1b	1b	$532.01
2		CARBURETOR HOUSING	1c	1c	1c	1c	1c	*
3	963-679	CARBURETOR PISTON	1	1	1	1	1	$123.26
4	963-500	NEEDLE CLIP	1	1	1	1	1	$8.21
5	950-430	O-RING 2,5X1,5	1	1	1	1	1	$2.68
6	827-347	SPRING CUP	1	1	1	1	1	$15.07
7	938-655	CARBURETOR PISTON SPRING 1,25/141	1	1	1	1	1	$6.04
8	831-450	RUBBER RING	1	1	1	1	1	$6.75
9	963-721	COVER PLATE WITH PIN	1	1	1	1	1	$30.83
10	241-430	HEX. SCREW M5X12	2	2	2	2	2	$1.68
11	942-541	HEX. NUT M6X0,75 HIGHT 3 MM	2	2	2	2	2	$1.03
12	241-440	ADJUSTMENT SCREW M6X0,75	2	2	2	2	2	$3.85
13	260-370	RUBBER GROMMET	2	2	2	2	2	$3.38
14	963-700	MIXING TUBE	1	1	1	1	1	$21.41
15	261-625	SIEVE SLEEVE	1	1	1	1	1	$10.15
16	261-705	FLOAT NEEDLE VALVE W. VITON TIP	1	1	1	1	1	$56.33
17	261-710	FLOAT NEEDLE CLIP	1	1	1	1	1	$1.53
18	861-184	FLOAT (PAIR)	1	1	1	1	1	$107.25
19	861-192	FLOAT BRACKET	1	1	1	1	1	$43.31
20	929-702	PIN	1	1	1	1	1	$2.10
21	830-720	GASKET	1	1	1	1	1	$10.53
22	261-010	FLOAT CHAMBER ASSY.,	1	1	1	1	1	$103.11
23	963-180	SPRING CLIP	1	1	1	1	1	$7.95
24	831-713	O-RING 3,2X1,8	1	1	1	1	1	$3.90
25	963-155	AIR REGULATING SCREW	1	1	1	1	1	$13.02
26	938-640	SPRING	1	1	1	1	1	$3.28
27	963-167	ADJUSTMENT SCREW	1	1	1	1	1	$18.74
28	861-940	AIR VENT LINE	1	1	1	1	1	$2.92
29	963-740	CHOKE PISTON WITH GASKET	1	1	1	1	1	$10.85
30	268-850	SLEEVE	1	1	1	1	1	$4.15
31	661-050	COMPRESSION SPRING	1	1	1	1	1	$2.15
32	963-750	CHOKE HOUSING	1	1	1	1	1	$18.06
33	860-610	RUBBER CAP	1	1	1	1	1	$2.15
34	640-220	SLOTTED HEAD SCREW M6X5	1	1	1	1	1	$7.48
35	230-415	SEALING RING A 6X10 DIN 7603	1h	1h	1h	1h	1h	$1.34
36	940-551	HOSE NIPPLE M6	1h	1h	1h	1h	1h	$16.70
37		JET NEEDLE	1d	1d	1d	1d	1d	*
38		IDLE JET	1e	1e	1e	1e	1e	*
39		NEEDLE JET	1f	1f	1f	1f	1f	*
40		MAIN JET	1g	1g	1g	1g	1g	*
41-48	995-667	HAND LEVER CHOKE SET	1	1	1	1	1	$103.92
41	268-847	CHOKE PISTON WITH GASKET	1	1	1	1	1	$27.81
42	239-730	COMPRESSION SPRING	1	1	1	1	1	$4.31
43	261-770	CHOKE HOUSING	1	1	1	1	1	$18.86
44	260-490	RUBBER CAP	1	1	1	1	1	$5.71
45	261-755	CHOKE LEVER ASSY.,	1	1	1	1	1	$29.96
46	261-200	HEX. NUT M5	2	2	2	2	2	$1.68
47	945-750	LOCK WASHER A5	2	2	2	2	2	$0.18
48	240-791	SLOTTED HEAD SCREW M5X10	2	2	2	2	2	$0.48



*** CALL FOR PRICING!**

FOR PROPER JETTING, SEE CHART ON FOLLOWING PAGE.

a NOTICE CARBURETOR WITHOUT CALIBRATION.
AB MOTORNUMMER
FROM ENGINE S/N
447 UL: 3,940.675
503 UL: 4,795.201

b NOTICE CARBURETOR WITHOUT CALIBRATION.
AB MOTORNUMMER
FROM ENGINE S/N
582 UL MOD. 90: 4,656.088
582 UL MOD. 99: AB STARTING WITH SERIAL PRODUCTION
618 UL : 4,380.198

c CARBURETOR HOUSING, NOT AVAILABLE AS SPARE PART, USE CARBURETOR ASSY.
d JET-NEEDLE, SEE CARBURETOR CALIBRATION SHEET
e IDLE-JET, SEE CARBURETOR CALIBRATION SHEET
f NEEDLE-JET, SEE CARBURETOR CALIBRATION SHEET
g MAIN-JET, SEE CARBURETOR CALIBRATION SHEET
h ONLY NECCESSARY ON HIGHT ALTITUDE COMPENSATION KIT
(NOT AVAILABLE ANYMORE)

RTX

	447 UL SCD1				503 UL DCD1							
VERSION	447 - 29,5KW				503 - 34KW				503 - 37KW			
	STANDARD				STANDARD				STANDARD			
VERSION		**PRICE**		**PRICE**		**PRICE**		**PRICE**		**PRICE**		**PRICE**
WITH INTAKE SILENCER	YES		NO		YES		NO		YES		NO	
PART NO.	887-815	**$573.61**	887-812		887-825	**$573.61**	887-820	**$573.61**	887-829		887-826	**$434.00**
PART NO. STANDARD 1	887-800	**NLA**	887-800	**NLA**	887-800	**NLA**	887-800	**NLA**	887-800	**NLA**	887-800	**NLA**
MAIN JET	HD 155		HD 165		HD 165		HD 185		HD 148		HD 158	
IDLE JET	LD 45		LD 45		LD 45		LD 45		LD 45		LD 45	
NEEDLE JET	ND 2,70		ND 2,70		ND 2,70		ND 2,72		ND 2,68		ND 2,70	
JET NEEDLE	DN 15K2		DN 15K2		DN 15K2		DN 15K2		DN 11K2		DN 11K2	
NEEDLE POSITION	NP 2		NP 2		NP 3		NP 3		NP 2		NP 2	
COLD START JET	SD 150		SD 150		SD 150		SD 150		SD 150		SD 150	
IDLE AIR ADJUSTING SCREW	LS 0,5		LS 0,5		LS 0,5		LS 0,5		LS 1		LS 0,5	

	582 UL DCDI								618 UL DCDI									
VERSION	582-40KW				582-48KW				618-55KW									
	STANDARD				STANDARD				OPTIONAL[2]				OPTIONAL[2]				STANDARD	
VERSION		**PRICE**		**PRICE**		**PRICE**		**PRICE**		**PRICE**		**PRICE**		**PRICE**		**PRICE**		**PRICE**
WITH INTAKE SILENCER	YES		NO		YES		NO		YES	YES	NO	NO	YES		NO		YES	
PART NO.	887-836	**$532.02**	887-832		887-838	**$532.01**	887-834		887-846	**$500.55**	887-848		887-841	**$500.55**	887-843		886-087	**NLA**
PART NO. STANDARD 1)	887-805	**$532.01**	887-805	**$532.01**	887-805	**$532.01**	887-805	**$532.01**	887-805	**$532.01**	887-805	**$532.01**	887-805	**$532.01**	887-805	**$532.01**	887-805 887-805	**$532.01**
MAIN JET	HD 145		HD 160		HD 145		HD 165		HD 135		HD 145		HD 160		HD 170		HD 135	
IDLE JET	LD 55		LD 55		LD 55		LD 55		LD 50		LD 50		LD 50		LD 50		LD 55	
NEEDLE JET	ND 2,68		ND 2,72		ND 2,68		ND 2,72		ND 2,68		ND 2,68		ND 2,68		ND 2,68		ND 2,70	
JET NEEDLE	DN 15K2		DN 11G2		DN 15K2		DN 11G2		DN 9M10J		DN 9M10J		DN 9M10J		DN 9M10J		DN 15E5U	
NEEDLE POSITION	NP 3		NP 3		NP 3		NP 3		NP 2		NP 2		NP 2		NP 2		NP 3	
COLD START JET	SD 150		SD 150		SD 150		SD 150		SD 150		SD 150		SD 150		SD 150		SD 150	
IDLE AIR ADJUSTING SCREW	LS 1		LS 1		LS 1		LS 1		LS 1		LS 1		LS 1,5		LS 1,5		LS 1	
FLOAT NEEDLE VALVE	NS 1,5		NS 1,5		NS 1,5		NS 1,5		NS 1,5		NS 1,5		NS 1,5		NS 1,5		NS 1,5	
STARTING BORE	SB 2,0																	

1) CARBURETOR WITHOUT JETTING
2) STANDARD FOR SHIPPMENT SINCE ENGINE NUMBER 4,380.198

MAIN JET	PART #	PRICE
HD 125	268-978	**$8.50**
HD 130	268-979	**$15.92**
HD 135	268-980	**$8.70**
HD 138	268-998	**$8.25**
HD 140	268-981	**$8.25**
HD 142	268-994	**$15.92**
HD 145	268-982	**$8.75**
HD 148	268-995	**$8.75**
HD 150	268-983	**$8.70**
HD 155	268-984	**$8.85**
HD 158	268-996	**$9.50**
HD 160	268-985	**$8.95**
HD 162	268-990	**$8.95**
HD 165	268-986	**$8.95**
HD 170	268-987	**$8.90**
HD 175	268-988	**$8.95**
HD 180	268-989	**$8.95**
HD 185	261-080	**$8.75**
HD 190	261-084	**$8.75**
HD 195	268-992	**$8.25**
HD 200	261-082	**$8.25**
HD 205	261-087	**$7.95**
HD 210	261-083	**$15.92**

IDLE JET	PART #	PRICE
LD 45	963-144	**$24.70**
LD 50	963-140	**$27.60**
LD 55	963-147	**$24.75**

NEEDLE JET	PART #	PRICE
ND 2,68	963-691	**$14.25**
ND 2,70	963-698	**$14.50**
ND 2,72	963-697	**$14.50**
ND 2,74	963-699	**$21.14**

JETNEEDLE	PART #	PRICE
DN 8L2	963-714	**$13.50**
DN 6G1	261-642	**$16.02**
DN 9	961-047	**$20.06**
DN 11G2	961-043	**$13.50**
DN 11K2	961-044	**$12.85**
DN 15E5U	961-046	**$19.08**
DN 15K 2	963-718	**$12.90**

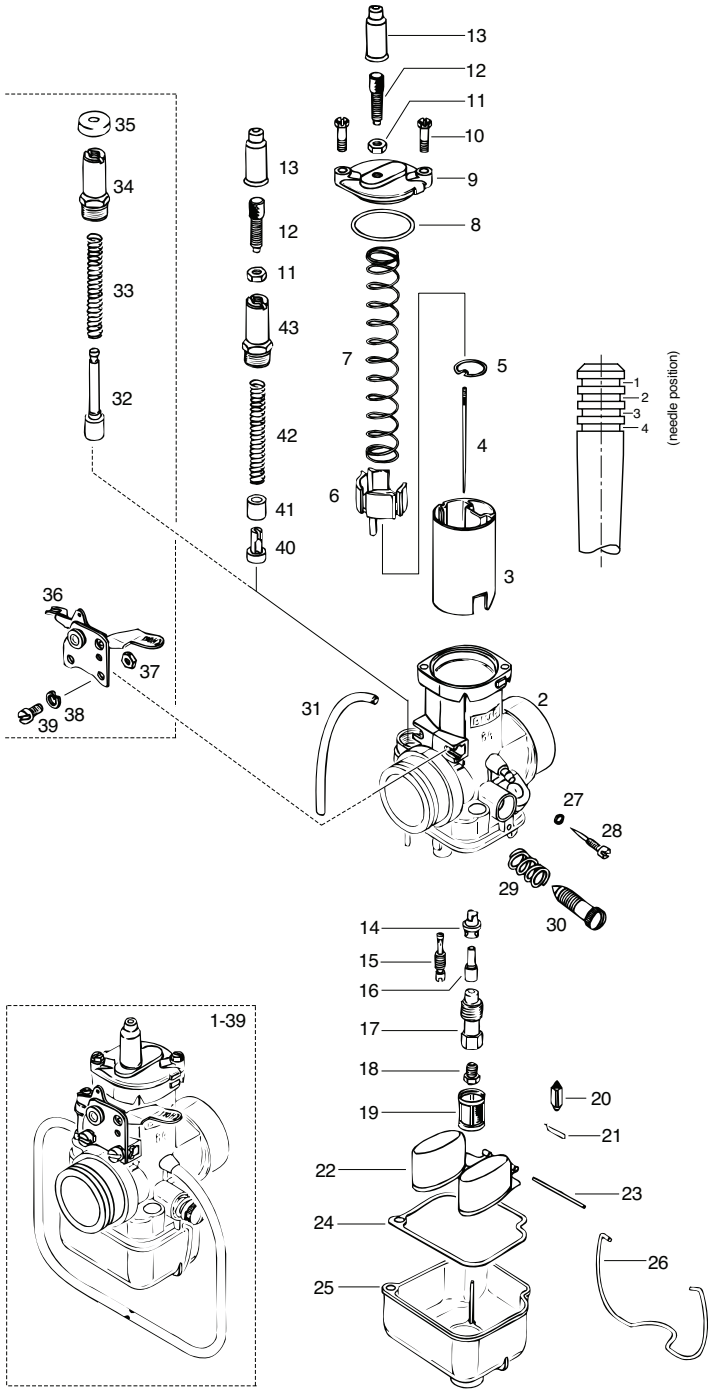
CPS
CALIFORNIA POWER SYSTEMS
EXPERTS IN LIGHTSPORT AVIATION

SAME DAY SHIPMENT!
GUARANTEED LOWEST PRICES!
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BING DOUBLE-FLOAT CARBURETOR 32 MM

447 UL - 31kW

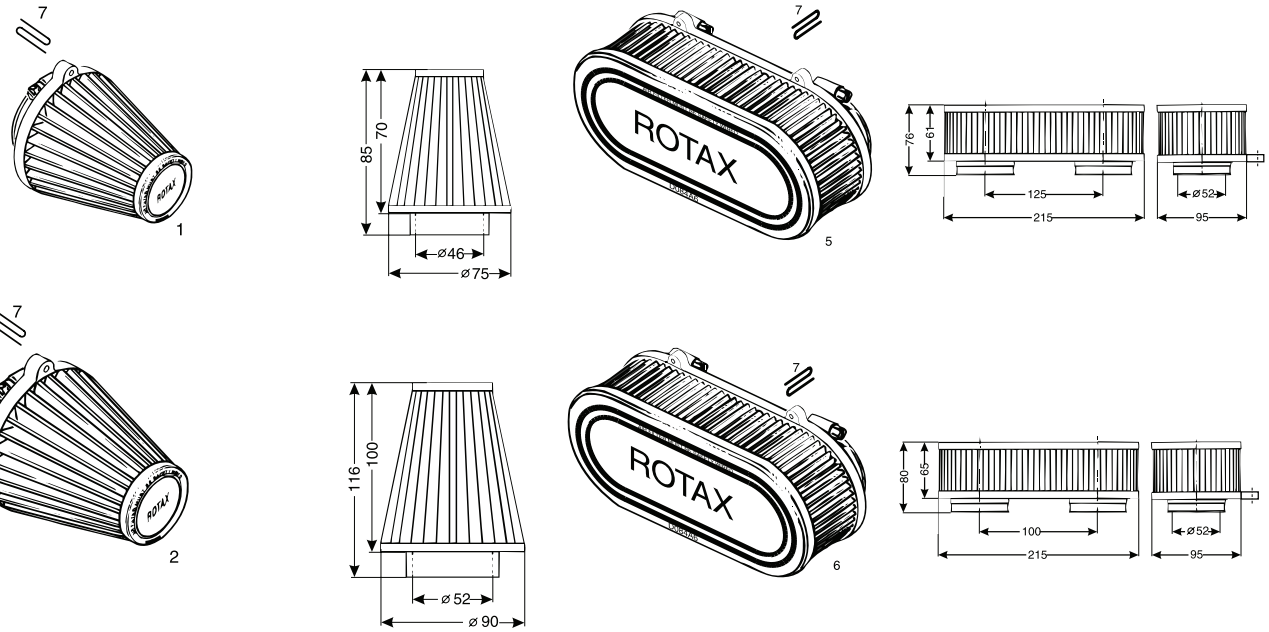
NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-39	292-357	BING CARBURETOR 84/32/3437	1a					NLA
1-43	292-359	BING CARBURETOR 84/32/3437	1bd					$538.82
2		CARBURETOR HOUSING	1c					NLA
3	261-635	CARBURETOR PISTON	1					$83.17
4	261-642	JET NEEDLE 6G1	1					$16.02
5	261-650	HOLDING PLATE	1					$9.03
6	227-635	SPRING CUP	1					$9.39
7	239-700	THROTTLE VALVE SPRING	1					$6.86
8	261-670	RUBBER RING	1					$9.48
9	261-600	COVER PLATE	1					*
10	241-430	HEX. SCREW M5X12	2					$1.47
11	942-541	HEX. NUT M6X0,75 HIGHT 3 MM	2					$1.03
12	241-440	ADJUSTMENT SCREW M6X0,75	2					$3.85
13	260-370	RUBBER GROMMET	2					$3.38
14	261-692	DIFFUSER	1					NLA
15	963-140	IDLE JET 50	1					$27.60
16	261-608	NEEDLE JET 2,70	1					$14.50
17	963-130	MIXING TUBE	1					$17.50
18	268-980	MAIN JET 135	1					$8.25
19	261-625	SIEVE SLEEVE	1					$10.15
20	261-704	FLOAT NEEDLE VALVE W. VITON TIP	1					$56.33
21	261-710	FLOAT NEEDLE CLIP	1					$1.53
22	963-192	FLOAT	1					$79.09
23	929-702	PIN	1					$2.10
24	830-720	GASKET	1					$10.53
25	963-170	FLOAT CHAMBER						$35.50
26	963-180	SPRING CLIP	1					$7.95
27	831-713	O-RING 3,2X1,8	1					$3.90
28	963-155	AIR REGULATING SCREW	1					$13.02
29	938-640	SPRING	1					$3.28
30	963-160	ADJUSTMENT SCREW	1					$9.08
31	861-940	AIR VENT LINE	1					$18.74
32	268-847	CHOKE PISTON WITH GASKET	1					$27.81
33	239-730	COMPRESSION SPRING	1					$4.31
34	261-770	CHOKE HOUSING	1					$18.86
35	260-490	RUBBER CAP	1					$5.71
36	261-750	CHOKE LEVER ASSY.,	1					$23.85
37	261-200	HEX. NUT M5	2					$1.68
38	945-750	LOCK WASHER A5	2					$0.18
39	240-791	SLOTTED HEAD SCREW M5X10	2					$0.48
40	963-740	CHOKE PISTON WITH GASKET	1					$10.85
41	268-850	SLEEVE	1					$4.15
42	661-050	COMPRESSION SPRING	1					$2.15
43	963-750	CHOKE HOUSING	1					$18.06



*** CALL FOR PRICING!**

a WITH HAND LEVER CHOKE, FOR CONFIGURATION WITHOUT INTAKE SILENCER.
b FOR CABLE BOWDEN CHOKE, FOR CONFIGURATION WITHOUT INTAKE SILENCER.
c CARBURETOR HOUSING, NOT AVAILABLE AS SPARE PART, USE CARBURETOR ASSY.
d PARTS 32 - 39 ARE NOT INCLUDED.

RTX



AIR FILTER (SINGLE/DOUBLE)

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	825-555	AIR FILTER	2a					**$137.21**
2	825-551	AIR FILTER	1a	1/2a	2	2	2	**$24.90**
3	825-711	AIR FILTER	1a	1/2a	2	2	2	**$54.75**
4	825-511	AIR FILTER	1b	1b	1b	1b	1b	**$40.46**
5	825-721	AIR FILTER		1a				**$47.84**
6	825-723	AIR FILTER				1d	1d	**$47.84**
7	01-15725	SAFETY WIRE .032 25 FT.						**$1.25**

a FOR SPECIFIC USE SEE FILTER INSTALLATION SHEET.
b USE AT INTAKE SILENCER VERSION.
c FOR 582 UL MOD. 90 WITHOUT FRESH OIL INJECTION.
d WITH FRESH OIL INJECTION.
e NOT AVAILABLE AS SPARE PART.

FILTER INSTALLATION SHEET:

	447 UL SCDI		503 UL DCDI		582 UL DCDI mod.90/99		618 UL DCDI
	447 Single Carb	447 Dual Carb	503 Single Carb	503 Dual Carb	582 UL 90/99 w/Injection Pump	582 UL 90/99 w/o Injection Pump	
SINGLE	825-551 825-711	825-555	825-551 or 825-711				
DOUBLE				825-721	825-723		
(with intake silencer)	825-511						

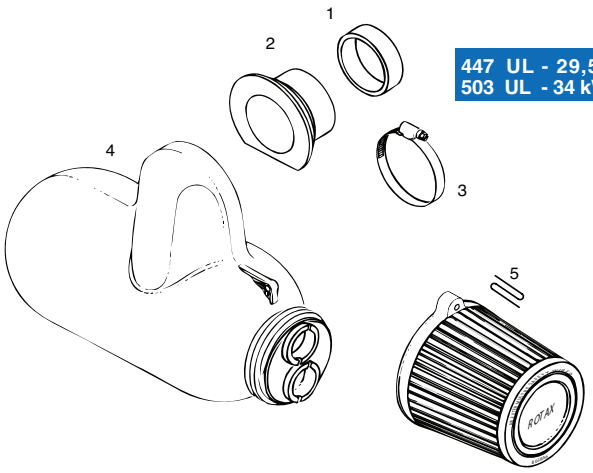
FOR K & N AIR FILTERS AND CLEANERS SEE PAGES 88 & 89

INTAKE SILENCER FOR 447 UL AND 503 UL

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-4	825-760	INTAKE SILENCER SET 1-V	1	1				$99.99
1	860-160	ADAPTOR RING	1	1				$10.65
2	825-440	ADAPTOR	1	1				$49.33
3	951-791	CLAMP 50-70	1	1				$9.07
4	825-337	INTAKE SILENCER ASSY.,	1	1				*
5	01-15725	SAFETY WIRE .032 25 FT.	AR	AR				$1.25

*** CALL FOR PRICING!**

447 UL - 29,5 kW
503 UL - 34 kW

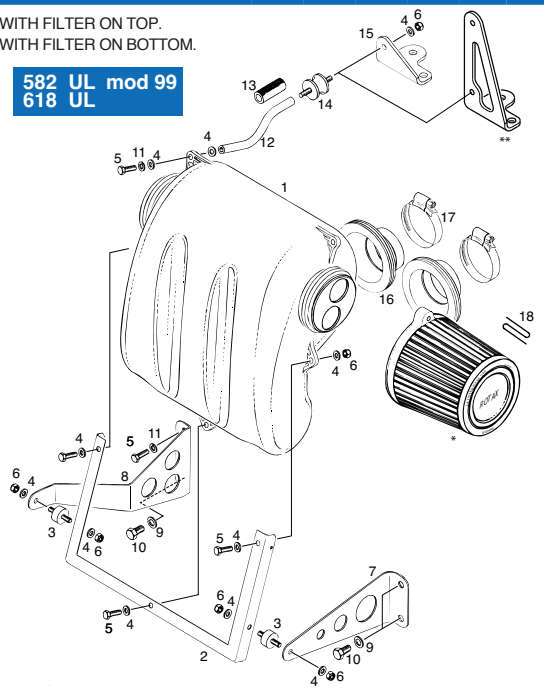


INTAKE SILENCER FOR 503 UL AND 582 UL 90/99

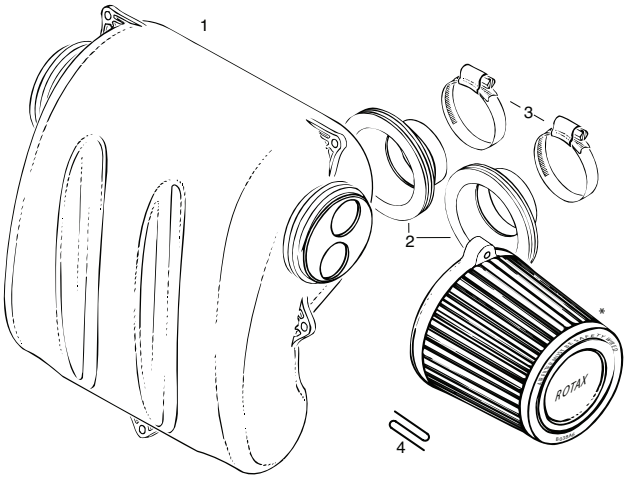
NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-3	825-762	INTAKE SILENCER SET 2-V		1a	1a	1a		$163.99
1-3	825-764	INTAKE SILENCER SET 2-V		1b	1b	1b		$210.07
1	825-657	INTAKE SILENCER ASSY.,		1a	1a	1a		$218.37
1	825-659	INTAKE SILENCER ASSY.,		1b	1b	1b		$218.37
2	825-662	SILENCER SOCKET		2	2	2		$49.33
3	951-791	CLAMP 50-70		2	2	2		$9.07
4	01-15725	SAFETY WIRE .032 25 FT.		ARc	ARc	ARc		$1.25

a IF INSTALLED WITH FILTER ON TOP.
b IF INSTALLED WITH FILTER ON BOTTOM.

582 UL mod 99
618 UL



INTAKE SILENCER FOR 582 UL 99 AND 618 UL



NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-17	825-743	INTAKE SILENCER SET 2-V				1	1	$269.99
1-6	825-740	INTAKE SILENCER W/ FRAME				1	1	$351.13
1	825-656	INTAKE SILENCER ASSY.,				1	1	NLA
2	953-151	FRAME				1	1	$130.70
3	860-700	RUBBER 20X10XM6				2	2	$22.25
4	244-213	WASHER 6,4				13	13	$0.94
5	940-563	HEX. SCREW M6X20				5	5	$2.62
6	842-042	LOCK NUT M6				8	8	$2.52
7	953-166	INTAKE SILENCER BRACKET MS				1	1	$66.47
8	953-163	INTAKE SILENCER BRACKET AS				1	1	$73.62
9	845-382	LOCK WASHER A8				3	3	$1.16
10	940-583	HEX.SCREW M8X16 STAINLESS STEEL				3	3	$3.05
11	845-381	LOCK WASHER A6				2	2	$0.53
12	847-608	DISTANCE BAR				1	1	$95.42
13	956-236	PROTECTION HOSE				1	1	$6.17
14	260-657	RUBBER BUFFER 25X20XM6				1	1	$25.19
15	851-129	INTAKE SILENCER BRACKET				1	1	$35.70
16	825-662	SILENCER SOCKET				2	2	$49.33
17	951-791	CLAMP 50-70				2	2	$9.07
18	01-15725	SAFETY WIRE .032 25 FT.				ARa	ARa	$1.25

a NOT AVAILABLE AS SPARE PART.

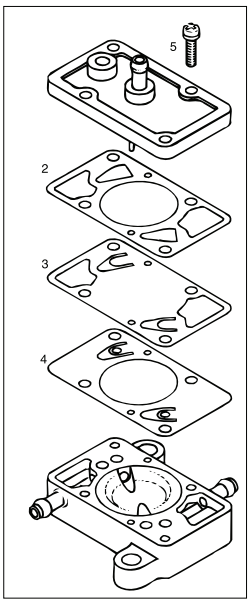
SINGLE CARBURETOR FUEL PUMP AND PRIMER

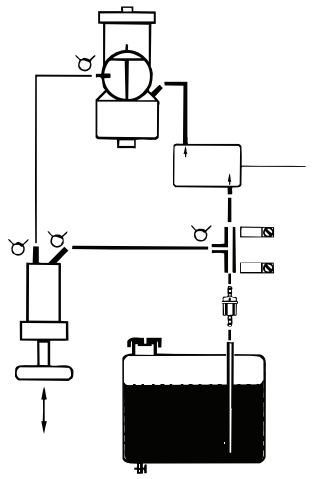
NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-5	994-483	MIKUNI-FUEL PUMP DF 44-210	1a	1a				$56.75
2	831-936	COVER GASKET	1	1				$7.43
3	861-137	PUMP DIAPHRAGM	1	1				$5.54
4	861-135	PUMP CASE GASKET	1	1				$21.96
5	841-460	COMBINED SCREW M4X16	4	4				$1.71
6-10	861-620	PRIMER KIT	1	1				$104.75
6	861-630	PRIMER PUMP	1	1				$108.69
7	874-211	FUEL LINE 3000 MM	1	1				$32.37
8	938-195	CLAMP 5	8	8				$4.62
9	974-832	REDUCTION T-PIECE 5-3-5	1	1				$12.85
10	951-898	CLAMP 7-11	2	2				$8.26

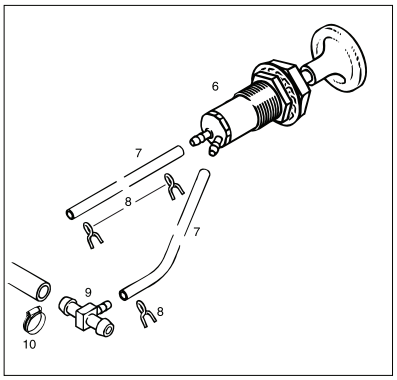
a SUITABLE FOR 1- AND 2 CARBURETOR CONFIGURATION.

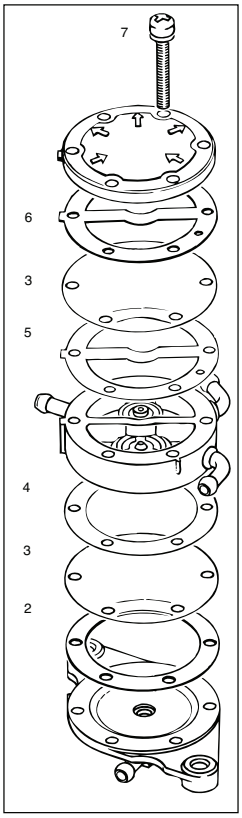
REBUILD KIT - 07-01011

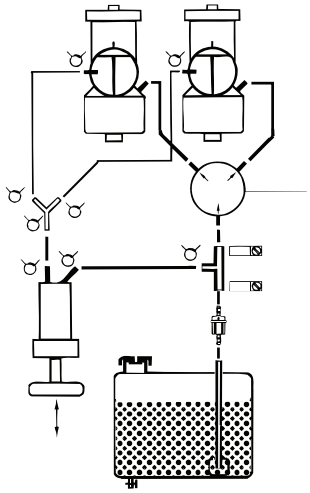
447 UL - 29,5 kW
503 UL - 34 kW

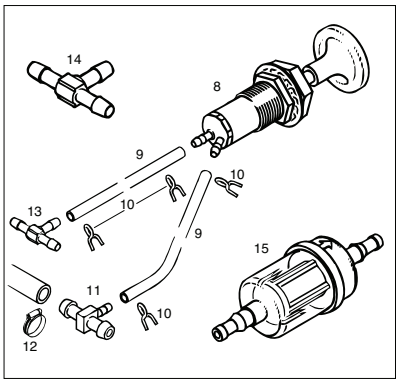












DUAL CARBURETOR FUEL PUMP AND PRIMER

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-7	994-486	FUEL PUMP DF 52-48	1	1	1	1	1	$43.15
2	850-441	GASKET	1	1	1	1	1	$6.09
3	861-210	DIAPHRAGM	2	2	2	2	2	$24.72
4	850-445	GASKET	1	1	1	1	1	$6.09
5	850-447	GASKET	1	1	1	1	1	$8.86
6	850-451	GASKET	1	1	1	1	1	$6.19
7	841-035	COMBINED SCREW M4X28	6	6	6	6	6	$1.97
8-14	861-620	PRIMER KIT	1	1	1	1	1	$104.75
8	861-630	PRIMER PUMP	1	1	1	1	1	$108.69
9	874-211	FUEL LINE 3000 MM	1	1	1	1	1	$32.37
10	938-195	CLAMP 5	8	8	8	8	8	$4.62
11	974-832	REDUCTION T-PIECE 5-3-5	1	1	1	1	1	$12.85
12	951-898	CLAMP 7-11	2	2	2	2	2	$8.26
13	974-837	T-PIECE 3-3-3	1	1	1	1	1	$7.88
14	974-830	T-PIECE 5-5-5	1	1	1	1	1	$7.88
15	7133	K&N FUEL FILTER	ARa	ARa	ARa	ARa	ARa	$8.75

a MASH SIZE 0,15 MM (0,006 IN)

REBUILD KIT - 07-01011

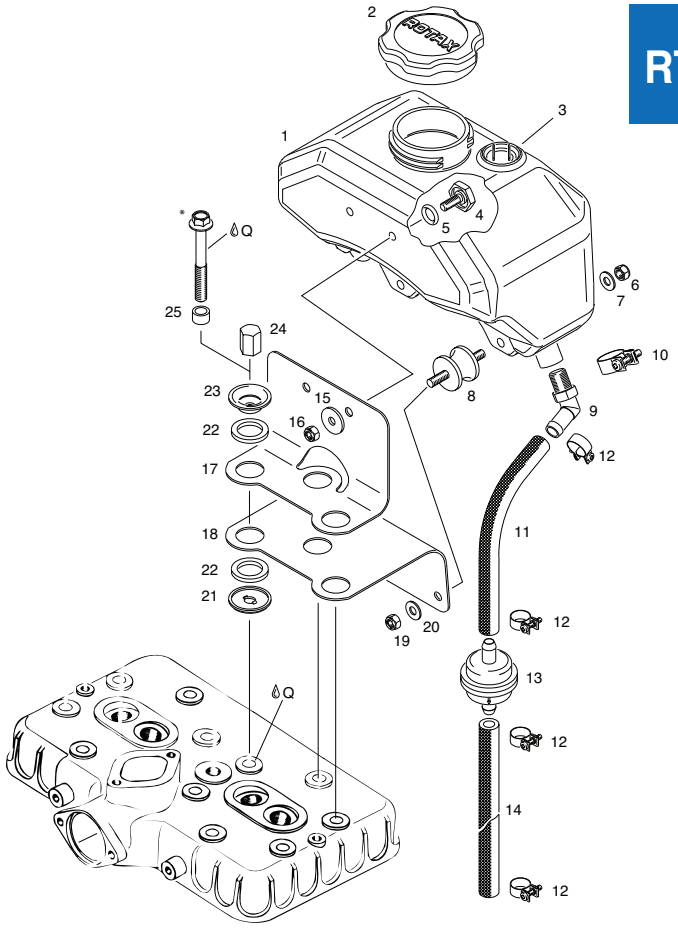
FOR ELECTRIC FUEL PUMPS AND FUEL SYSTEM ACCESSORIES - SEE PAGE 86

2 STROKE OIL TANK FOR OIL INJECTION

OIL TANK ASSEMBLY

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-25	881-465	OIL TANK SET WITH BRACKETS			1	1	1	$174.95
1-16	881-460	OIL TANK SET			1	1	1	$150.99
2	874-106	TANK CAP ASSY.			1	1	1	$24.40
3	956-360	OIL LEVEL INDICATOR			1	1	1	$39.31
4	840-160	TIGHTENING SCREW			2c	2c	2c	$11.70
5	430-020	O-RING 9,3X2,4			2c	2c	2c	$5.26
6	842-042	LOCK NUT M6			2	2	2	$2.52
7	244-211	WASHER 6,4 DIN 134			2	2	2	$0.18
8	260-657	RUBBER BUFFER 25X20XM6			2	2	2	$25.19
9	922-242	ANGULAR TUBE 1/4-18NPT			1	1	1	$16.97
10	853-726	CLAMP MINI 16 W1			1	1	1	$4.72
11	956-231	OIL LINE 140 MM			1	1	1	$10.43
12	951-260	CLAMP 14			4	4	4	$4.72
13	956-330	OIL FILTER			1	1	1	$28.49
14	956-233	OIL LINE 450 MM			1	1	1	$25.88
15	227-900	WASHER 6,2/20/2			2	2	2	$4.38
16	842-042	LOCK NUT M6			2	2	2	$2.52
17	851-230	OIL TANK BRACKET UPPER HALF			1	1	1	$52.87
18	851-235	OILTANK BRACKET LOWER HALF			1	1	1	$52.87
19	842-042	LOCK NUT M6			2	2	2	$2.52
20	244-211	WASHER 6,4 DIN 134			2	2	2	$0.18
21	944-092	SHIM 8,2			3	3	3	$9.53
22	960-865	RUBBER WASHER 18/26/3			2	2	2	$1.81
23	827-817	CUP WASHER			3	3	3	$12.34
24	842-324	CAP NUT M8			3a		3a	$5.01
25	847-796	SPACER 8,4/12/7,5				3b		$10.52

a USE AT 582 UL MOD 90 AND 618 UL.
b USE AT 582 UL MOD 99
c NOT AVAILABLE AS SPARE PART, USE 881460.



Q: SILASTIC 732 RTV - P/N 297-386

OVERVIEW OF THE EXHAUST SYSTEMS

OVERVIEW SHEET

		EXHAUST MANIFOLD ASSY.				CONNECTING ELBOW ASSY.				MUFFLER ASSY.				
	VERSION	YES		NO		YES		NO		YES		YES [1]	NO	
447 UL SCD1	SIDEMOUNT	979-380	$247.03	–		973-182	$188.50	973-180	$154.68	973-198	$525.22	–	973-274	$579.55
	1 X 90° [2]					973-182	$188.50			973-275	$579.55			
	STRAIGHT					973-182	$188.50			973-191	$579.55			
503 UL DCD1	SIDEMOUNT	831-849	$9.26	–		973-182	$188.50			973-198	$525.22		973-274	$579.55
	1 X 90° [2]					973-182	$188.50			973-275	$579.55			
	STRAIGHT					973-182	$188.50			973-191	$579.55			
582 UL 40KW	–	973-123	$243.98	973-121	$239.54	973-182	$188.50			–	–	–	973-255	NLA
582 UL DCD1 MO.90/99 DCDI 48KW	SIDEMOUNT									973-197	$525.22		973-274	$579.55
	1 X 90° [2]									973-275	$579.55			
	STRAIGHT									973-192	$579.55			
618 UL DCD1	SIDEMOUNT	979-210	NLA	–						978-840	NLA	–	–	
	1 X 90° [2]									978-845	$1,135.71			

1) DOUBLE WALL, NOISE REDUCED VERSION)
2) WITH CONNECTING ELBOW

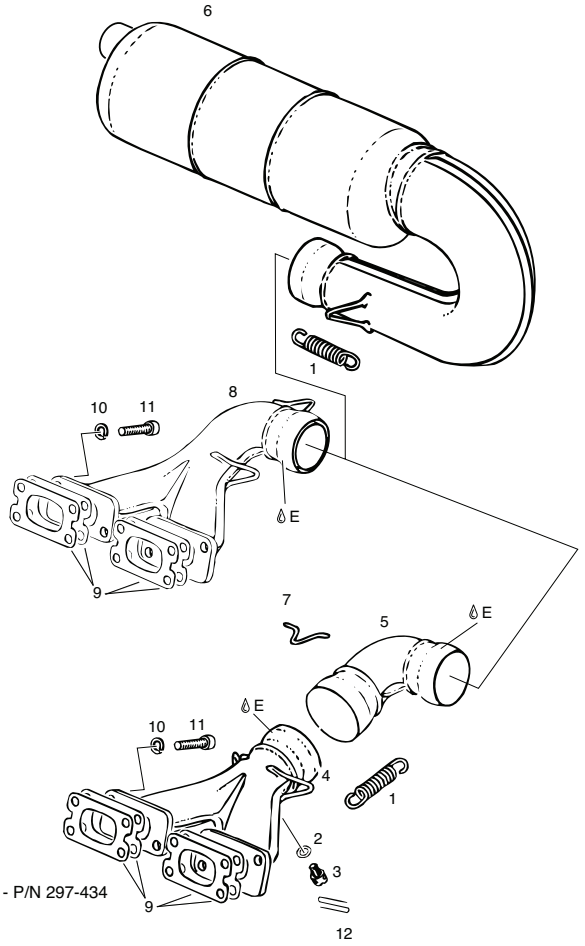
	SPRING		EXHAUST GASKET		GASKET RING A8X13		CAPSTAN SCREW M8X1X10	
447 UL SCD1	938-795	$3.28	850-114	$8.76	950-141	$1.45	941-615	$8.76
503 UL DCD1			831-849	$9.26				
582 UL 40KW	938-790	$7.62	850-633	$12.07				
582 UL DCD1 MO.90/99 DCDI 48KW								
618 UL DCD1			850-552	$10.15				

RTX

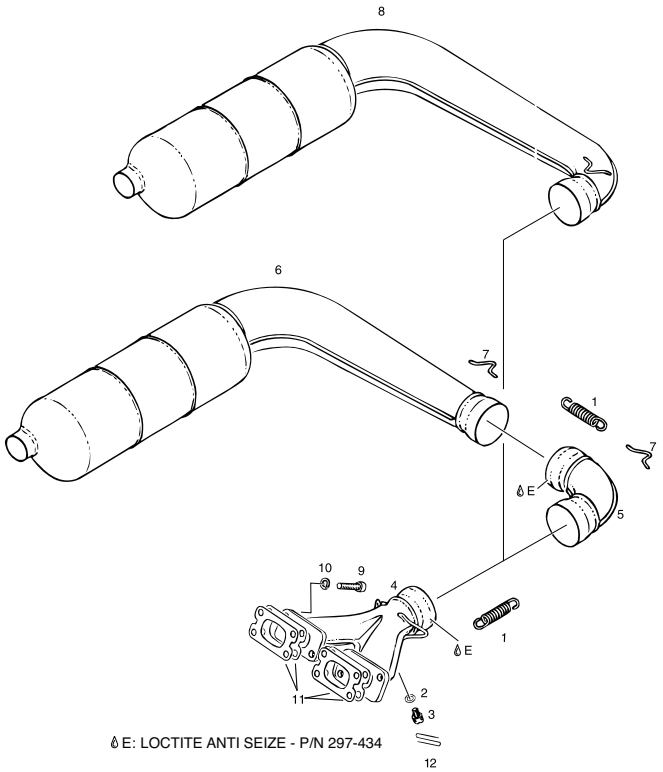
EXHAUST SYSTEMS CONFIGURATION SIDEMOUNT

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-6	881-652	EXHAUST ASSORTMENT	1					$428.95
1-6	881-662	EXHAUST ASSORTMENT		1				$460.73
1-7	881-632	EXHAUST ASSORTMENT			1	1		$703.38
1-7	881-636	EXHAUST ASSORTMENT			1	1		$498.86
1	938-795	SPRING 66 MM	6	6				$3.28
1	938-790	RETURN SPRING			6	6		$7.62
2	950-141	GASKET RING A 8X13 DIN 7603	2	2	2	2		$1.45
3	941-615	CAPSTAN SCREW M8X1X10	2	2	2	2		$8.76
4	979-380	EXHAUST MANIFOLD ASSY.,	1b					$247.03
4	878-937	EXHAUST MANIFOLD ASSY.		1b				$199.75
4	973-121	EXHAUST MANIFOLD ASSY.			1a	1a		$239.54
4	973-123	EXHAUST MANIFOLD ASSY.			1b	1b		$243.98
5	973-180	CONNECTING ELBOW ASSY.,	1a	1a	1a	1a		$154.68
5	973-182	CONNECTING ELBOW ASSY.,	1b	1b	1b	1b		$188.50
6	973-198	MUFFLER ASSY.,	1b	1b				$525.22
6	973-197	MUFFLER ASSY.,			1a	1a		$525.22
7	853-355	HOOK	AR	AR	AR	AR		$1.81
8	N.A.	EXHAUST MANIFOLD ASSY.,		1d				NLA
9	850-114	GASKET 1,0 MM						$8.76
9	831-849	GASKET 1,0 MM						$9.26
9	850-633	GASKET						$12.07
10	945-752	LOCK WASHER A8						$0.18
11	840-991	ALLEN SCREW M8X30						$1.34
12	01-15725	SAFETY WIRE .032 25 FT.	AR	AR	AR	AR		$1.25

a WITHOUT HOOKS
b WITH HOOKS
c SEE ALSO SI-2ST-002
d NO LONGER IN AVAILABLE



E: LOCTITE ANTI SEIZE - P/N 297-434



E: LOCTITE ANTI SEIZE - P/N 297-434

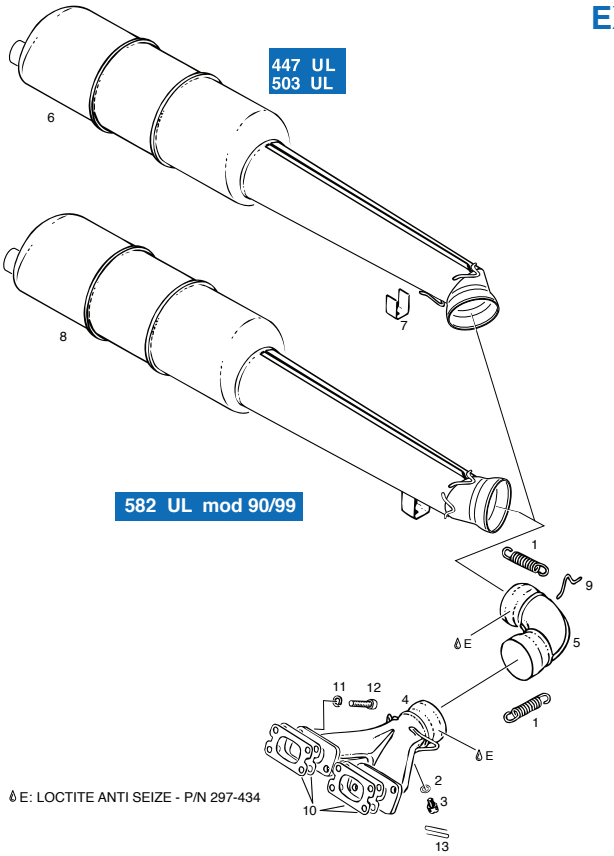
a HOOKS (PART NO. 853355) ATTACHED, NOT WELDED.
b HOOKS (PART NO. 853355) ALREADY WELDED.
c WITHOUT HOOKS
d SEE ALSO SI-2ST-002

EXHAUST SYSTEMS CONFIG.: 1 X 90° WITH CONNECTING ELBOW AND 2 X 90°

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-6	881-650	EXHAUST ASSORTMENT	1a					$428.95
1-7	881-651	EXHAUST ASSORTMENT	1b					$428.95
1-6	881-660	EXHAUST ASSORTMENT		1a				$460.73
1-7	881-661	EXHAUST ASSORTMENT		1b				$460.73
1-6	881-634	EXHAUST ASSORTMENT			1b	1b		$498.86
1-7	881-633	EXHAUST ASSORTMENT			1a	1a		$498.86
1	938-795	SPRING 66 MM	6	6				$3.28
1	938-790	RETURN SPRING			6	6		$7.62
2	950-141	GASKET RING A 8X13 DIN 7603	2	2	2	2		$1.45
3	941-615	CAPSTAN SCREW M8X1X10	2	2	2	2		$8.76
4	979-380	EXHAUST MANIFOLD ASSY.,	1b					$247.03
4	878-937	EXHAUST MANIFOLD ASSY.		1b				$199.75
4	973-121	EXHAUST MANIFOLD ASSY.			1a	1a		$239.54
4	973-123	EXHAUST MANIFOLD ASSY.			1b	1b		$243.98
5	973-180	CONNECTING ELBOW ASSY.,	1c	1c	1c	1c		$154.68
5	973-182	CONNECTING ELBOW ASSY.,			1b	1b		$188.50
5	973-182	CONNECTING ELBOW ASSY.,	1b	1b				$188.50
6	973-274	MUFFLER ASSY.,	1c	1c	1c	1c		$579.55
6	973-275	MUFFLER ASSY.,	1b	1b	1b	1b		$579.55
7	853-355	HOOK	AR	AR	AR	AR		$1.81
8	973-195	MUFFLER ASSY.,	1b	1b	1b	1b		NLA
9	840-991	ALLEN SCREW M8X30	4	4	6	6		$1.34
10	945-752	LOCK WASHER A8	4	4	6	6		$0.18
11	850-114	GASKET 1,0 MM	4					$8.76
11	831-849	GASKET 1,0 MM		4				$9.26
11	850-633	GASKET			2d	2d		$12.07
12	01-15725	SAFETY WIRE .032 25 FT.	AR	AR	AR	AR		$1.25

RTX

EXHAUST SYSTEM CONFIGURATION: STRAIGHT



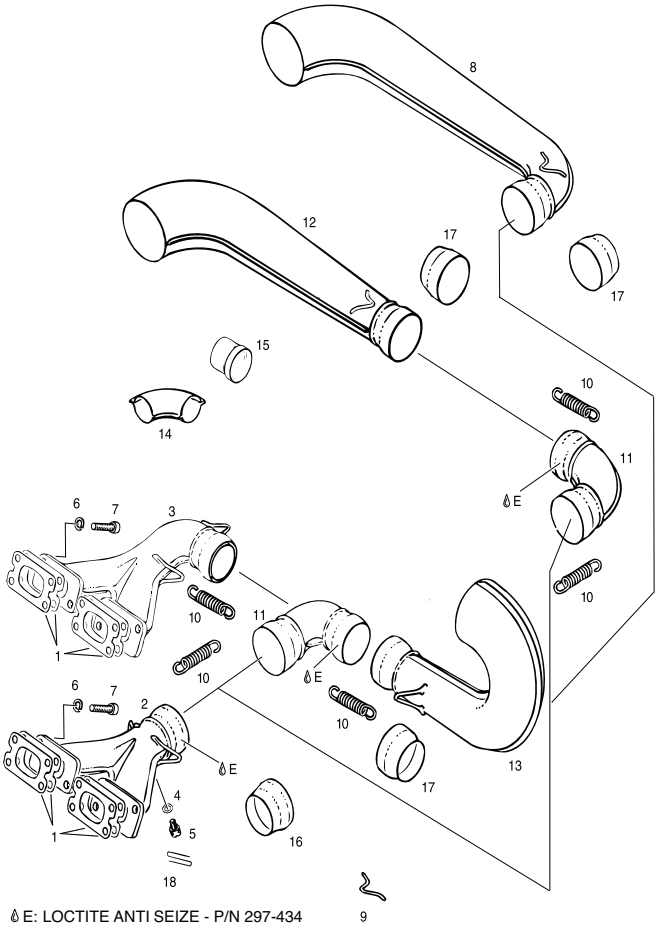
NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-6	881-653	EXHAUST ASSORTMENT	1					$428.95
1-6	881-663	EXHAUST ASSORTMENT		1				$460.73
1-5,8	881-631	EXHAUST ASSORTMENT			1	1		$703.38
1	938-795	SPRING 66 MM	6	6				$3.28
1	938-790	RETURN SPRING			6	6		$7.62
2	950-141	GASKET RING A 8X13 DIN 7603	2	2	2	2		$1.45
3	941-615	CAPSTAN SCREW M8X1X10	2	2	2	2		$8.76
4	979-380	EXHAUST MANIFOLD ASSY.,	1b					$247.03
4	878-937	EXHAUST MANIFOLD ASSY.		1b				$199.75
4	973-121	EXHAUST MANIFOLD ASSY.			1a	1a		$239.54
4	973-123	EXHAUST MANIFOLD ASSY.			1b	1b		$243.98
5	973-180	CONNECTING ELBOW ASSY.,	1a	1a	1a	1a		$154.68
5	973-182	CONNECTING ELBOW ASSY.,	1b	1b	1b	1b		$188.50
6	973-191	MUFFLER ASSY.,	1b	1b				$579.55
7	951-150	BRACKET	2	2				$11.30
8	973-192	MUFFLER ASSY.,			1a	1a		$579.55
9	853-355	HOOK	AR	AR	AR	AR		$1.81
10	850-114	GASKET 1,0 MM	4					$8.76
10	831-849	GASKET 1,0 MM		4				$9.26
10	850-633	GASKET			2c	2c		$12.07
11	945-752	LOCK WASHER A8	4	4	6	6		$0.18
12	840-991	ALLEN SCREW M8X30	4	4	6	6		$1.34
13	01-15725	SAFETY WIRE .032 25 FT.	AR	AR	AR	AR		$1.25

a WITHOUT HOOKS
b WITH HOOKS
c SEE SI-2ST-002

EXHAUST SYSTEMS SINGLE PARTS

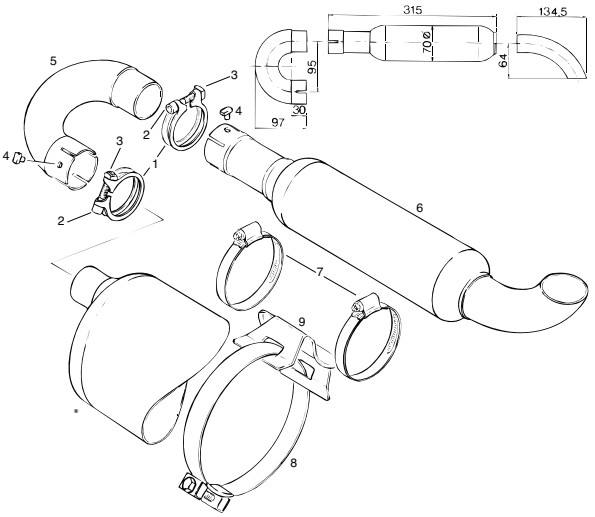
NO	STATUS	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1		850-114	GASKET 1,0 MM	4					$8.76
1		831-849	GASKET 1,0 MM		4				$9.26
1		850-633	GASKET			2f	2f		$12.07
2		979-380	EXHAUST MANIFOLD ASSY.,	1b					$247.03
2		878-937	EXHAUST MANIFOLD ASSY.		1b				$199.75
2		973-121	EXHAUST MANIFOLD ASSY.			1a	1a		$239.54
2		973-123	EXHAUST MANIFOLD ASSY.			1b	1b		$243.98
3	s.v.		EXHAUST MANIFOLD ASSY.,		1g				NLA
4		950-141	GASKET RING A 8X13 DIN 7603	2	2	2	2		$1.45
5		941-615	CAPSTAN SCREW M8X1X10	2	2	2	2		$8.76
6		945-752	LOCK WASHER A8	4	4	6	6		$0.18
7		840-991	ALLEN SCREW M8X30	4	4	6	6		$1.34
8	s.v.	973-546	INLET CONE ASSY.,	1b,g,h	1b,g,h				$218.37
8	s.v.	973-546	INLET CONE ASSY.,	1a,g,i	1a,g,i				$218.37
9		853-355	HOOK	AR	AR	AR	AR		$1.81
10		938-795	SPRING 66 MM	AR	AR				$3.28
10		938-790	RETURN SPRING			AR	AR		$7.62
11		973-180	CONNECTING ELBOW ASSY.,	1a	1a	1a	1a		$154.68
11		973-182	CONNECTING ELBOW ASSY.,	1b	1b				$188.50
12		973-546	INLET CONE ASSY.,			1b	1b		$218.37
13		973-542	INLET CONE ASSY.,	1b	1b				NLA
13		973-544	INLET CONE ASSY.,			1a	1a		$218.95
14		879-920	OUTLET ELBOW ASSY.,	1	1	1	1		$64.35
15		978-640	OUTLET TUBE	1c	1c	1c	1c		$13.37
16		878-660	BALL JOINT	1d	1d	1d	1d		$16.64
17		878-666	BALL JOINT	1e	1e	1e	1e		$16.87
18		01-15725	SAFETY WIRE .032 25 FT.	AR	AR	AR	AR		$1.25

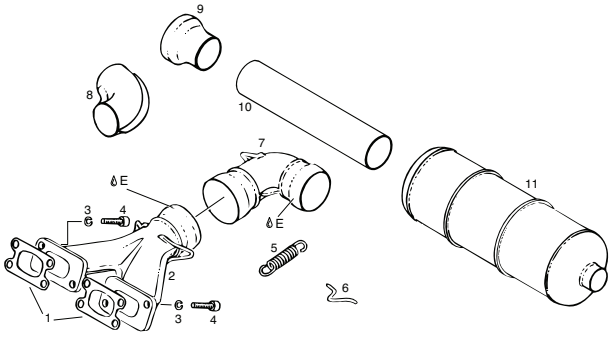
a WITHOUT HOOKS
b WITH HOOKS
c FOR CONFIGURATION WITH CLAMPED AFTER MUFFLER.
d FOR EXHAUST MANIFOLD
e FOR INLET CONES
f SEE ALSO-SI-2ST-002
g NO LONGER IN PRODUCTION
h REPLACED BY PART NO. 973546 + 973182
i REPLACED BY PART NO. 973546 + 973180, HOOKS HAVE TO BE ORDERED SEPARATELY



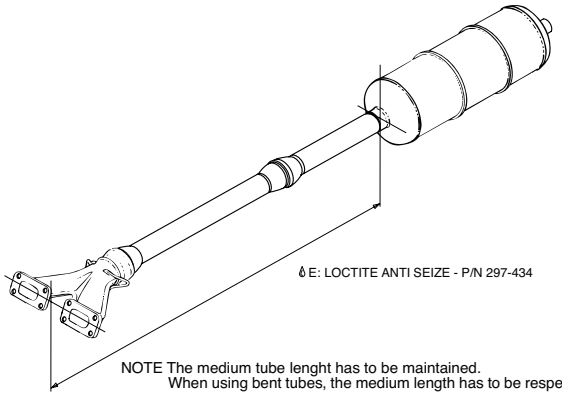
AFTER-MUFFLER ASSEMBLY

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-9	978-650	AFTER MUFFLER KIT (NEW)	1	1	1	1		$105.17
1	953-251	CLAMP 42	2	2	2	2		$11.37
2	241-811	ALLEN SCREW M6X35 DIN 912	2	2	2	2		$0.53
3	942-991	SQUARE NUT M6	2	2	2	2		$0.53
4	929-921	SECURITY BOLT	2	2	2	2		$9.03
5	878-407	ELBOW ASSY.,	1	1	1	1		$106.88
6	878-967	AFTER-MUFFLER ASSY.	1	1	1	1		$227.26
7	851-130	CLAMP 60-80	2	2	2	2		$11.16
8	851-140	HOSE CLAMP 140	1	1	1	1		$37.50
9	851-150	MUFFLER HOLDER	1	1	1	1		$73.73





Medium tube length 660 mm for engine type 582 UL DCDI mod. 90/99 40 kW



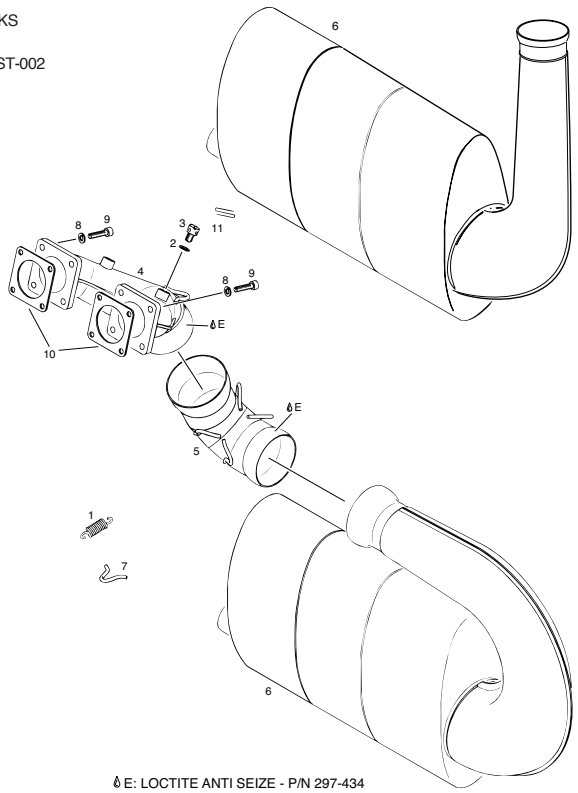
E: LOCTITE ANTI SEIZE - P/N 297-434

NOTE The medium tube lenght has to be maintained.
When using bent tubes, the medium length has to be respected!

EXHAUST SYSTEM FOR ENGINE TYPE 582 UL MOD 90/99 40 KW

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	850-633	GASKET			2c	2c		$12.07
2	973-121	EXHAUST MANIFOLD ASSY.			1a	1a		$239.54
2	973-123	EXHAUST MANIFOLD ASSY.			1b	1b		$243.98
3	945-752	LOCK WASHER A8			6	6		$0.18
4	840-991	ALLEN SCREW M8X30			6	6		$1.34
5	938-790	RETURN SPRING			8	8		$7.62
6	853-355	HOOK			16	16		$1.81
7	973-180	CONNECTING ELBOW ASSY.,			1a	1a		$154.68
7	973-182	CONNECTING ELBOW ASSY.,			1b	1b		$188.50
8	878-677	BENT TUBE ASSY.,			2	2		$52.82
9	878-666	BALL JOINT			1	1		$16.87
10	973-282	INLET TUBE 500 MM			1	1		$45.92
11	973-255	MUFFLER ASSY. 60 MM			1a	1a		NLA

a WITHOUT HOOKS
b WITH HOOK
c SEE ALSO-SI-2ST-002



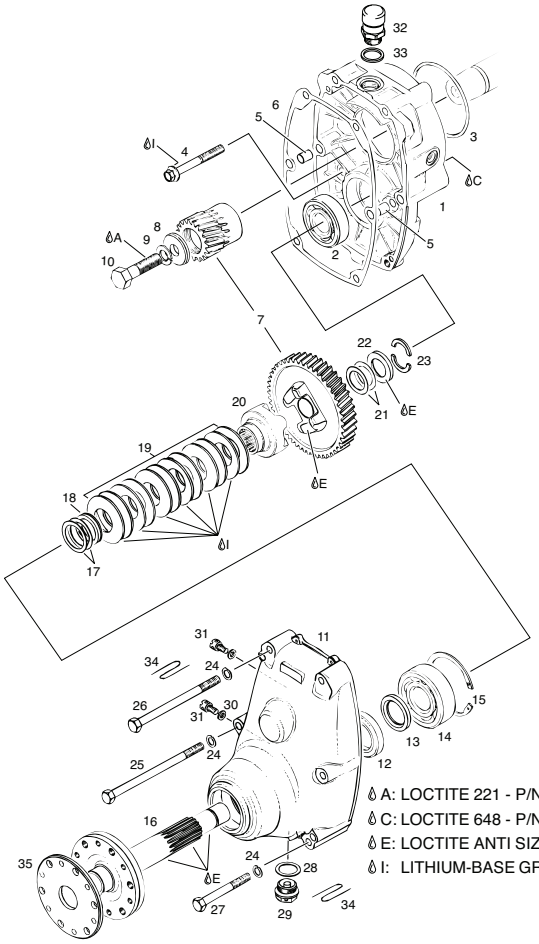
E: LOCTITE ANTI SEIZE - P/N 297-434

EXHAUST SYSTEM 618 UL

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-7	978-843	EXHAUST SYSTEM 180 DEGR.					1	*
1-7	978-848	EXHAUST SYSTEM 90 DEGR.					1	*
1	938-795	SPRING 66 MM					6	$3.28
2	950-141	GASKET RING A 8X13 DIN 7603					2	$1.45
3	941-615	CAPSTAN SCREW M8X1X10					2	$8.76
4	979-210	EXHAUST MANIFOLD ASSY.,					1	NLA
5	973-183	CONNECTING ELBOW ASSY.,					1b	$199.75
6	978-840	MUFFLER ASSY.,					1b	NLA
6	978-845	MUFFLER ASSY.					1a	$1,135.71
7	853-355	HOOK					16	$1.81
8	945-751	LOCK WASHER A6 DIN 128					8	$0.16
9	840-861	ALLEN SCREW					8	$1.05
10	850-552	GASKET					2c	$10.15
11	01-15725	SAFETY WIRE .032 25 FT.						$1.25

a WITHOUT HOOKS
b WITH HOOK
c SEE ALSO-SI-2ST-002

*** CALL FOR PRICING!**



REDUCTION GEARBOX "B" : I=2,00, I=2,24 OR I=2,58

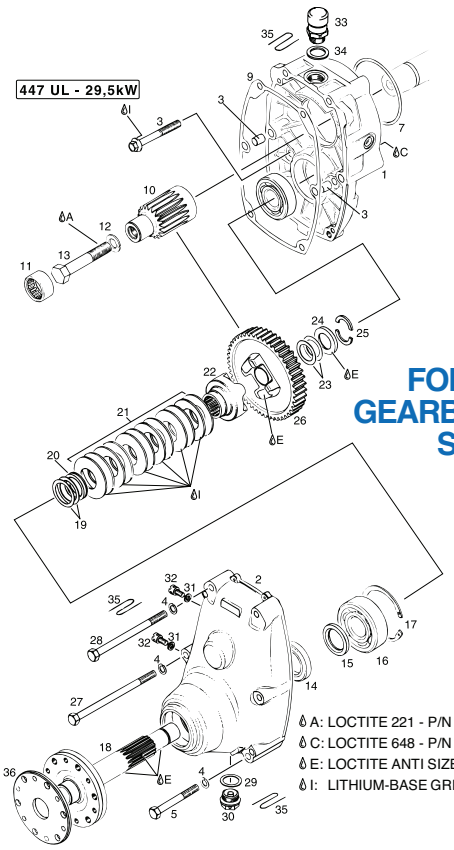
NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-35	15-07767	B GEARBOX ASSEMBLY 1: 2.00	1	1	1	1		$944.00
1-35	15-07774	B GEARBOX ASSEMBLY 1: 2.24	1	1	1	1		$1,019.52
1-35	15-05342	B GEARBOX ASSEMBLY 1: 2.53	1	1	1	1		$943.95
1 N	810-109	GEAR HOUSING	1	1	1	1		$375.53
2	932-091	BALL BEARING 6304 C3, 20-52-15	1	1	1	1		$43.32
3	850-430	O-RING 75-2,5	1	1	1	1		$14.87
4	841-306	COLLAR HEX. SCREW M8X65 SW 11	2	2	2	2		$5.01
5	929-671	DOWEL 10X13	2	2	2	2		$23.97
6	930-536	GASKET	1	1	1	1		$10.25
7	886-200	GEAR SET 2,58	1a	1a	1a	1a		$349.82
7	886-202	GEAR SET 2,24	1b	1b	1b	1b		$367.34
7	886-204	GEAR SET 2,00	1c	1c	1c	1c		$494.09
8	827-786	WASHER 13/34/5	1	1	1	1		$14.57
9	945-765	LOCK WASHER VHV 13	1	1	1	1		$0.99
10	841-656	HEX. SCREW 1/2-2OUNFX2	1	1	1	1		$9.03
11	910-373	GEAR COVER	1	1	1	1		$370.46
12	850-055	OIL SEAL 30X47X7/7,5	1	1	1	1		$30.02
13	827-851	DISTANCE RING 26/36/4,5	1	1	1	1		$19.08
14	932-820	BALL BEARING 6305 C3 / 25-62-17	1	1	1	1		$57.00
15	445-070	RETAINING RING 62X2	1	1	1	1		$4.72
16	837-024	PROPELLER SHAFT	1	1	1	1		$351.56
17	944-470	SHIM 25,5/34/O,2	AR	AR	AR	AR		$2.15
17	944-471	SHIM 25,5/34/O,3	AR	AR	AR	AR		$1.81
17	944-472	SHIM 25,5/34/O,5	AR	AR	AR	AR		$1.81
17	944-473	SHIM 25,5/34/1	AR	AR	AR	AR		$1.81
17	944-474	SHIM 25,5/34/0,1	AR	AR	AR	AR		$1.81
18	847-621	DISTANCE RING 25,2/33/4,5	1	1	1	1		$16.57
19	939-020	DISK SPRING B50	12	12	12	12		$5.44
20	958-771	DOG HUB	1	1	1	1		$130.82
21	944-469	THRUST WASHER 20,5/30/0,8	2	2	2	2		$2.15
22	827-841	ANGULAR RING	1	1	1	1		$19.96
23	827-862	RING HALF	2	2	2	2		$29.12
24	945-752	LOCK WASHER A8	6	6	6	6		$0.18
25	941-350	HEX. SCREW M8X125	2	2	2	2		$6.09
26	941-171	HEX. SCREW M8X110	2	2	2	2		$3.28
27	841-301	HEX. SCREW M8X65	2	2	2	2		$1.87
28	552-280	GASKET RING 18,2/24/1	1	1	1	1		$2.62
29	840-270	MAGNETIC PLUG M18X1,5	1	1	1	1		$28.07
30	230-415	GASKETRING A 6X10 DIN 7603	2	2	2	2		$1.34
31	841-781	CAPSTAN SCREW M6X10	2	2	2	2		$5.37
32	941-115	AIR VENT SCREW M18X1,5	1	1	1	1		$17.29
33	931-200	GASKET RING 18,2/22/2	1	1	1	1		$3.01
34	01-15725	SAFETY WIRE .032 25 FT.	AR	AR	AR	AR		$1.25
35	827-830	COVER WASHER	1	1	1	1		$47.04

a EXCHANGE DRIVE GEAR 19 T AND DOG GEAR 49 T ONLY TOGETHER.
b EXCHANGE DRIVE GEAR 21 T AND DOG GEAR 47 T ONLY TOGETHER.
c EXCHANGE DRIVE GEAR 20 T AND DOG GEAR 40 T ONLY TOGETHER.

REDUCTION GEARBOX "B" : I=3,00

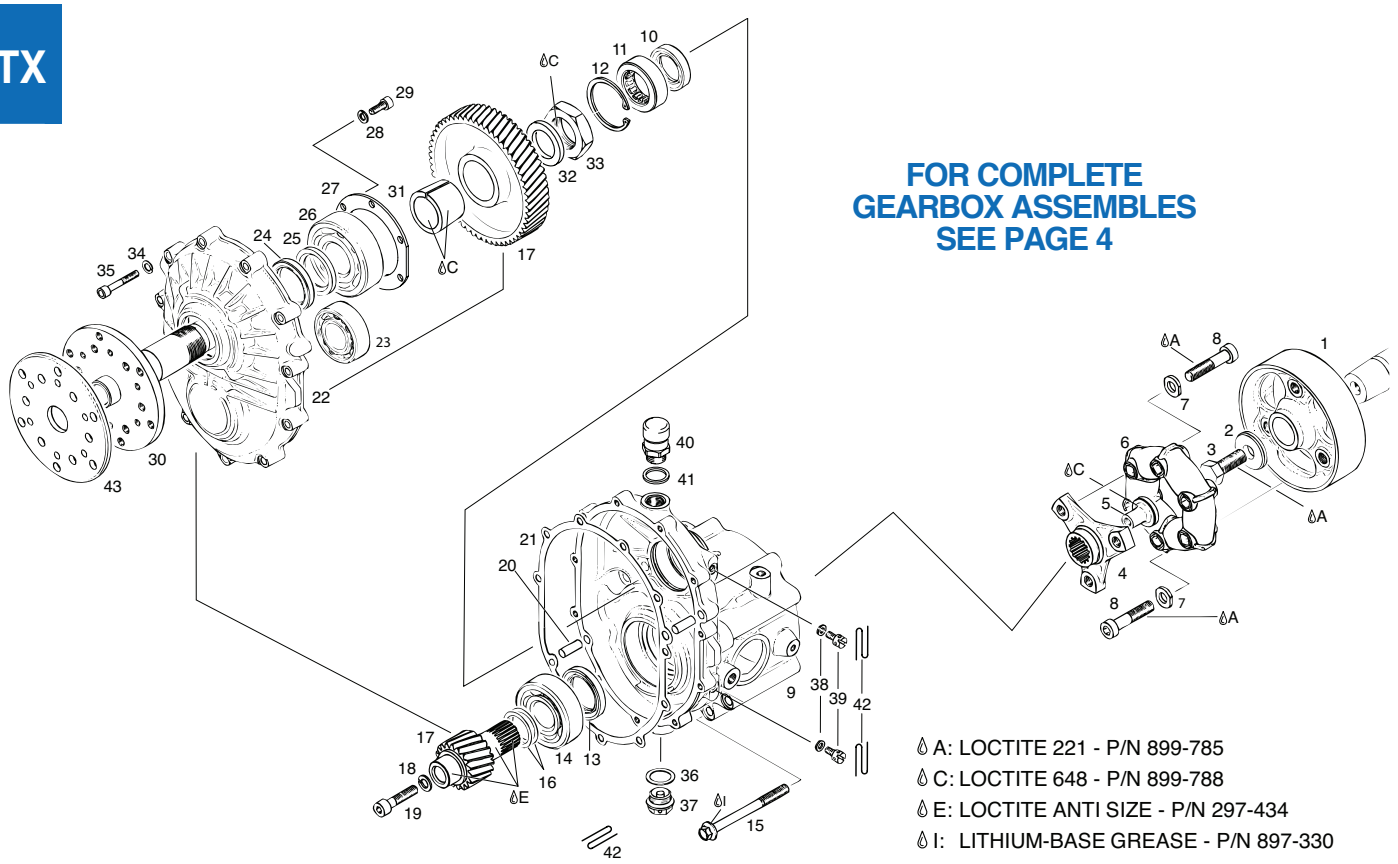
NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-5	N.A.	GEAR HOUSING SET	1	1	1	1		NLA
1	N.A.	GEAR HOUSING	1a	1	1	1		NLA
2	N.A.	GEAR COVER	1a	1	1	1		NLA
3	929-671	DOWEL 10X13	2					$23.97
4	945-752	LOCK WASHER A8	6					$0.18
5	841-301	HEX. SCREW M8X65	2					$1.87
6	932-091	BALL BEARING 6304 C3, 20-52-15	1					$43.32
7	850-430	O-RING 75-2,5	1					$14.87
8	841-306	COLLAR HEX. SCREW M8X65 SW 11	2					$5.01
9	930-536	GASKET	1					$10.25
10	834-025	DRIVE GEAR 18 T.,	1					NLA
11	832-300	NEEDLE BEARING 25X32X16	1					$36.81
12	945-765	LOCK WASHER VHV 13	1					$0.99
13	941-051	HEX. SCREW 1/2-2OUNFX3	1					$16.84
14	850-055	OIL SEAL 30X47X7/7,5	1					$30.02
15	827-851	DISTANCE RING 26/36/4,5	1					$19.08
16	932-820	BALL BEARING 6305 C3 / 25-62-17	1					$57.00
17	445-070	RETAINING RING 62X2	1					$4.72
18	837-024	PROPELLER SHAFT	1					$351.56
19	944-470	SHIM 25,5/34/O,2	AR					$2.15
19	944-471	SHIM 25,5/34/O,3	AR					$1.81
19	944-472	SHIM 25,5/34/O,5	AR					$1.81
19	944-473	SHIM 25,5/34/1	AR					$1.81
19	944-474	SHIM 25,5/34/0,1	AR					$1.81
20	847-621	DISTANCE RING 25,2/33/4,5	1					$16.57
21	939-020	DISK SPRING B50	12					$5.44
22	958-771	DOG HUB	1					$130.82
23	944-469	THRUST WASHER 20,5/30/0,8	2					$2.15
24	827-841	ANGULAR RING	1					$19.96
25	827-862	RING HALF	2					$29.12
26,10 N	886-205	GEAR SET I 3.0	1					$442.37
27	941-350	HEX. SCREW M8X125	2					$6.09
28	941-171	HEX. SCREW M8X110	2					$3.28
29	552-280	GASKET RING 18,2/24/1	1					$2.62
30	840-270	GASKET RING 6,2/8,9/1	1					$28.07
31	230-415	SEALING RING A 6X10 DIN 7603	2					$1.34
32	841-781	CAPSTAN SCREW M6X10	2					$5.37
33	941-115	AIR VENT SCREW M18X1,5	1					$17.29
34	931-200	GASKET RING 18,2/22/2	1					$3.01
35	01-15725	SAFETY WIRE .032 25 FT.	AR					$1.25
36	827-830	COVER WASHER	1					$47.04

a NOT AVAILABLE AS SPARE PART, USE GEAR HOUSING SET 996182.



FOR COMPLETE GEARBOX ASSEMBLES SEE PAGE 4

RTX



FOR COMPLETE GEARBOX ASSEMBLES SEE PAGE 4

- A: LOCTITE 221 - P/N 899-785
- C: LOCTITE 648 - P/N 899-788
- E: LOCTITE ANTI SIZE - P/N 297-434
- I: LITHIUM-BASE GREASE - P/N 897-330

REDUCTION GEARBOX "C": I=2,62, I=3,00, I=3,47 OR I=4,00

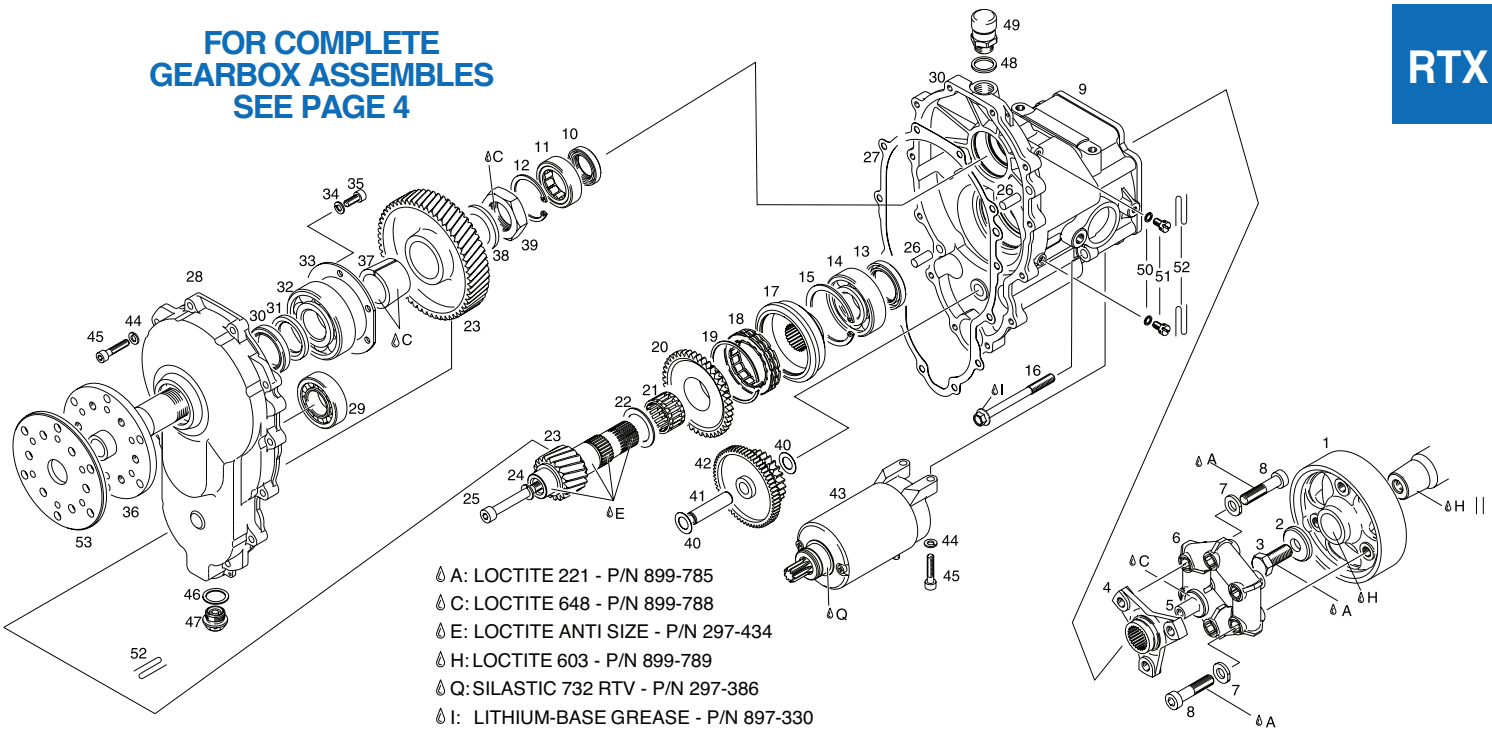
NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-43	15-07811	C GEARBOX ASSEMBLY 1: 2.62		1	1	1	1	$1,499.00
1-43	15-07812	C GEARBOX ASSEMBLY 1: 3.00		1	1	1	1	$1,499.00
1-43	15-07813	C GEARBOX ASSEMBLY 1: 3.47		1	1	1	1	$1,499.00
1-43	15-07814	C GEARBOX ASSEMBLY 1: 4.00		1	1	1	1	$1,499.00
1	958-981	FLY WHEEL		1	1	1	1	$199.96
2	827-786	WASHER 13/34/5		1	1	1	1	$14.57
3	841-651	HEX. SCREW 1/2-2OUNFX1 3/16		1	1	1	1	$6.81
4	958-971	COUPLING FLANGE		1f	1f	1f	1f	$227.89
5	842-661	NUT M8		1	1	1	1	$27.19
6	958-964	RUBBER COUPLING		1	1	1	1	$182.11
7	944-120	WASHER		6	6	6	6	$4.33
8	841-820	ALLEN SCREW M10X45		6	6	6	6	$4.15
9	810-012	GEAR BOX HOUSING		1	1	1	1	$444.56
10	930-675	OIL SEAL 25X38X7		1	1	1	1	$24.73
11	232-285	ROLLER BEARING 26,5-47-14		1	1	1	1	$109.97
12	945-690	RETAINING RING 47X1,75		1	1	1	1	$3.67
13	950-084	OIL SEAL A 32X47X7		1g	1g	1g	1g	$71.56
13	950-084	OIL SEAL 32X47X7		1f	1f	1f	1f	$71.56
14	932-820	BALL BEARING 6305 C3 / 25-62-17		1	1	1	1	$57.00
15	440-366	COLLAR HEX. SCREW M8X90 A/F 11		8	8	8	8	$5.22
16	427-021	SHIM 26,5/34/0,2		AR	AR	AR	AR	$1.68
17	886-280	GEAR SET I 2,62		1ah	1ah	1ah	1ah	$531.88
17	886-282	GEAR SET I 3,0		1bh	1bh	1bh	1bh	$531.88
17	886-284	GEAR SET I 3,47		1ch	1ch	1ch	1ch	$531.88
17	886-286	GEAR SET I 4,00		1dh	1dh	1dh	1dh	*
18	845-310	LOCK WASHER VHZ 8		1	1	1	1	$0.39

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
19	841-591	ALLEN SCREW M8X35		1	1	1	1	$1.34
20	929-940	PIN 8X20		2	2	2	2	$3.86
21	950-211	GASKET		1	1	1	1	$13.79
22	810-021	GEAR COVER		1	1	1	1	$626.34
23	932-420	BALL BEARING 6205 C3, 25-52-15		2	2	2	2	$38.88
24	930-715	OIL SEAL 35X47X7		1	1	1	1	$30.02
25	944-111	DISTANCE RING 31/44/4,5		1	1	1	1	$24.20
26	932-570	BALL BEARING 6306 C3, 30-72-19		1	1	1	1	$68.54
27	944-106	SHIM		1	1	1	1	$26.47
28	445-330	LOCK WASHER VHZ 6		4	4	4	4	$0.39
29	241-236	ALLEN SCREW M6X1		6	6	6	6	$0.63
30	837-185	PROPELLER SHAFT		1	1	1	1	$418.72
31	847-757	SPLITTED CONE SLEEVE 10		1h	1h	1h	1h	$122.49
32	926-200	MASSIVE WASHER 30		1	1	1	1	$6.99
33	842-579	HEX. NUT M30X1.5 12MM, LH		1e	1e	1e	1e	$16.34
34	945-751	LOCK WASHER A6 DIN 128		11	11	11	11	$0.16
35	840-880	ALLEN SCREW M6X30 DIN 912		11	11	11	11	$0.51
36	552-280	GASKET RING 18,2/24/1		1	1	1	1	$2.62
37	840-270	MAGNETIC PLUG M18X1,5		1	1	1	1	$28.07
38	230-415	SEALING RING A 6X10 DIN 7603		2	2	2	2	$1.34
39	841-781	CAPSTAN SCREW M6X10		2	2	2	2	$5.37
40	941-115	AIR VENT SCREW M18X1,5		1	1	1	1	$17.29
41	931-200	GASKET RING 18,2/22/2		1	1	1	1	$3.01
42	01-15725	SAFETY WIRE .032 25 FT.		AR	AR	AR	AR	$1.25
43	944-140	COVER WASHER		1	1	1	1	$70.65

*** CALL FOR PRICING!**

a REPLACE LAYSHAFT GEAR 55 T AND PINION SHAFT 21 T ONLY TOGETHER.
b REPLACE LAYSHAFT GEAR 57 T AND PINION SHAFT 19 T ONLY TOGETHER.
c REPLACE LAYSHAFT GEAR 59 T AND PINION SHAFT 17 T ONLY TOGETHER.
d REPLACE LAYSHAFT GEAR 60 T AND PINION SHAFT 15 T ONLY TOGETHER.
e NOTICE LEFT-HAND THREAD.
f COUPLING-FLANGE 958971 AND OIL-SEAL 950084 HAS TO BE USED TOGETHER!
g COUPLING-FLANGE 958970 AND OIL-SEAL 950085 HAS TO BE USED TOGETHER!
h GEAR SET AND SPLITTED CONE SLEEVE 847757 HAS TO BE USED TOGETHER!
SEE ALSO SI-2ST-007

FOR COMPLETE GEARBOX ASSEMBLES SEE PAGE 4



REDUCTION GEARBOX "E" : I=2,62, I=3,00, I=3,47 OR I=4,00

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-53	15-07815	E GEARBOX ASSEMBLY 1: 2.62		1	1	1	1	$2,138.00
1-53	15-07816	E GEARBOX ASSEMBLY 1: 3.00		1	1	1	1	$2,140.00
1-53	15-07817	E GEARBOX ASSEMBLY 1: 3.47		1	1	1	1	$2,140.00
1-53	15-07818	E GEARBOX ASSEMBLY 1: 4.00		1	1	1	1	$2,140.00
1	958-981	FLY WHEEL		1	1	1	1	$199.96
2	827-786	WASHER 13/34/5		1	1	1	1	$14.57
3	841-651	HEX. SCREW 1/2-2OUNFX1 3/16		1	1	1	1	$6.81
4	958-971	COUPLING FLANGE		1f	1f	1f	1f	$227.89
5	842-661	NUT M8		1	1	1	1	$27.19
6	958-964	RUBBER COUPLING		1	1	1	1	$182.11
7	944-120	WASHER		6	6	6	6	$4.33
8	841-820	ALLEN SCREW M10X45		6	6	6	6	$4.15
9	810-351	GEARBOX HOUSING		1	1	1	1	$1,315.61
10	930-675	OIL SEAL 25X38X7		1	1	1	1	$24.73
11	232-285	ROLLER BEARING 26,5-47-14		1	1	1	1	$109.97
12	945-690	RETAINING RING 47X1,75		1	1	1	1	$3.67
13	950-084	OIL SEAL 32X47X7		1g	1g	1g	1g	$71.56
13	950-084	OIL SEAL 32X47X7		1f	1f	1f	1f	$71.56
14	932-820	BALL BEARING 6305 C3 / 25-62-17		1	1	1	1	$57.00
15	445-070	RETAINING RING 62X2		1	1	1	1	$4.72
16	440-366	COLLAR HEX. SCREW M8X90 A/F 11		8	8	8	8	$5.22
17	852-430	SPRAG CLUTCH HOUSING		1	1	1	1	$263.52
18	259-077	SPRAG CLUTCH 45,665X62,332X13		1	1	1	1	$273.49
19	245-620	SNAPRING 62		1	1	1	1	$5.14
20	834-280	FREE WHEEL GEAR 42 T		1	1	1	1	$253.99
21	832-410	NEEDL CAGE K 28X34X20H		1	1	1	1	$57.28
22	427-236	THRUST WASHER 28,25/39,8/1,5		1	1	1	1	$3.43
23	886-751	GEAR SET I 2,62		1ah	1ah	1ah	1ah	$596.57
23	886-753	GEAR SET I 3,0		1bh	1bh	1bh	1bh	$596.57
23	886-755	GEAR SET I 3,47		1ch	1ch	1ch	1ch	$596.57
23	886-757	GEAR SET I 4,0		1dh	1dh	1dh	1dh	$596.57

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
24	845-310	LOCK WASHER VHZ 8		1	1	1	1	$0.39
25	440-217	ALLEN SCREW M8X80 DIN 912		1	1	1	1	$2.68
26	929-940	PIN 8X20		2	2	2	2	$3.86
27	950-215	GASKET		1	1	1	1	$16.00
28	810-361	GEAR COVER		1	1	1	1	$782.46
29	232-242	ZR-BEARING NJ 205 E JP1		1	1	1	1	$125.84
30	930-715	OIL SEAL 35X47X7		1	1	1	1	$30.02
31	944-111	DISTANCE RING 31/44/4,5		1	1	1	1	$24.20
32	932-570	BALL BEARING 6306 C3, 30-72-19		1	1	1	1	$68.54
33	944-106	SHIM		1	1	1	1	$26.47
34	445-330	LOCK WASHER VHZ 6		6	6	6	6	$0.39
35	241-236	ALLEN SCREW M6X16		6	6	6	6	$0.63
36	837-185	PROPELLER SHAFT		1	1	1	1	$418.72
37	847-757	SPLITTED CONE SLEEVE 10		1h	1h	1h	1h	$122.49
38	926-200	MASSIVE WASHER 30		1	1	1	1	$6.99
39	842-579	HEX. NUT M30X1.5 12MM, LH		1e	1e	1e	1e	$16.34
40	227-450	THRUST WASHER 12,5/21,5/0,5		2	2	2	2	$3.01
41	837-301	IDLE GEAR SHAFT		1	1	1	1	$25.82
42	834-290	IDLE GEAR 62/25 Z		1	1	1	1	$282.15
43	293-153	ELECTRIC STARTER ASSY.		1	1	1	1	$739.41
44	945-751	LOCK WASHER A6 DIN 128		14	14	14	14	$0.16
45	840-880	ALLEN SCREW M6X30 DIN 912		14	14	14	14	$0.51
46	552-280	GASKET RING 18,2/24/1		1	1	1	1	$2.62
47	840-270	MAGNETIC PLUG M18X1,5		1	1	1	1	$28.07
48	931-200	GASKET RING 18,2/22/2		1	1	1	1	$3.01
49	941-115	AIR VENT SCREW M18X1,5		1	1	1	1	$17.29
50	230-415	SEALING RING A 6X10 DIN 7603		2	2	2	2	$1.34
51	841-781	CAPSTAN SCREW M6X10		2	2	2	2	$5.37
52	01-15725	SAFETY WIRE .032 25 FT.		AR	AR	AR	AR	$1.25
53	944-140	COVER WASHER		1	1	1	1	$70.65

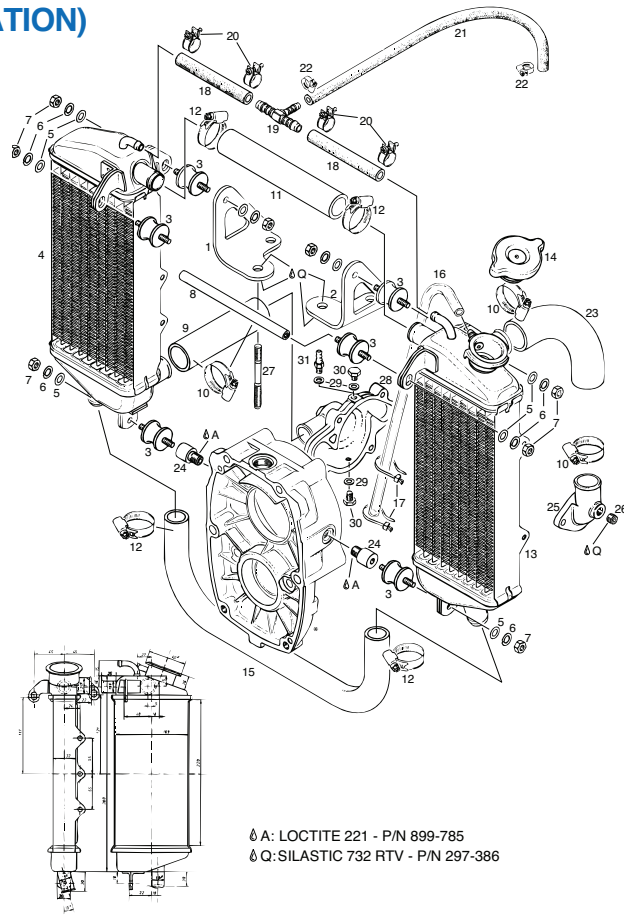
a REPLACE LAYSHAFT GEAR 55 T AND PINION SHAFT 21 T ONLY TOGETHER.
b REPLACE LAYSHAFT GEAR 57 T AND PINION SHAFT 19 T ONLY TOGETHER.
c REPLACE LAYSHAFT GEAR 59 T AND PINION SHAFT 17 T ONLY TOGETHER.
d REPLACE LAYSHAFT GEAR 60 T AND PINION SHAFT 15 T ONLY TOGETHER.
e NOTICE LEFT-HAND THREAD.
f COUPLING FLANGE 958971 AND SEALING RING 950084 HAS TO BE USED AS A SET.
g COUPLING FLANGE 958970 AND SEALING RING 950085 HAS TO BE USED AS A SET.
h GEAR SET AND SPLITTED CONE SLEEVE 847757 HAS TO BE USED TOGEATHER!
NOTE: INCLUDED STARTER RELAY.

RTX

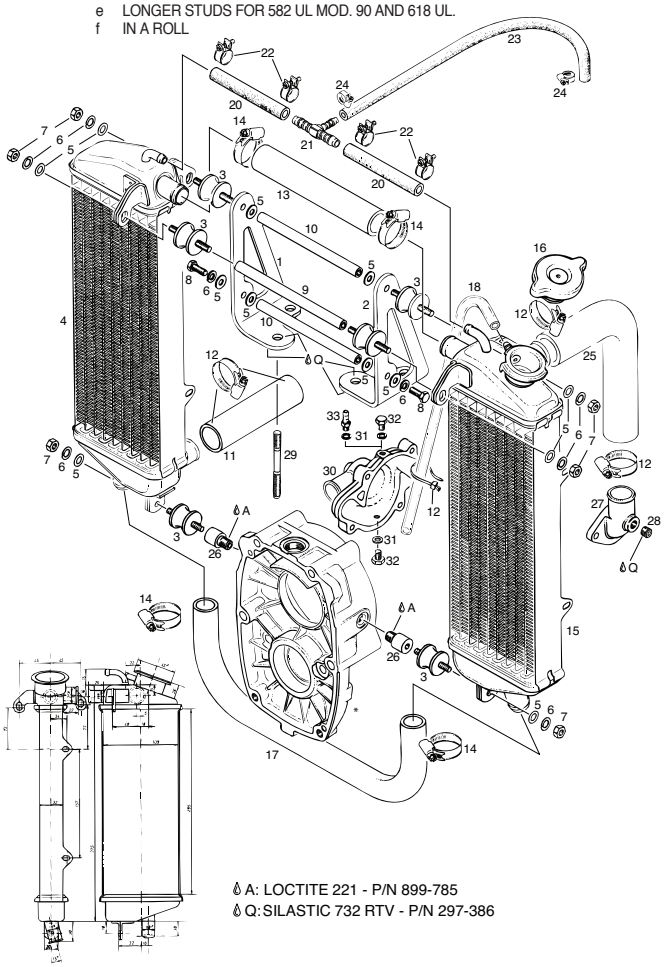
2-PIECE RADIATOR SET (LOW CONFIGURATION)

NO	PART #	DESCRIPTION	582 m90	582 m99	618	PRICE
1-23	881-433	RADIATOR SET (WAS 881-410)	1	1		$750.00
1	851-120	RADIATOR BRACKET RIGHT	1	1		$40.58
2	851-125	RADIATOR BRACKET LEFT	1	1		$40.58
3	260-657	RUBBER BUFFER 25X20XM6	6	6		$25.19
4	995-912	RADIATOR WITHOUT FILLER CAP	1a	1a		$366.21
5	244-211	WASHER 6,4 DIN 134	8	8		$0.18
6	945-751	LOCK WASHER A6 DIN 128	8	8		$0.16
7	242-211	HEX.NUT M6	8	8		$0.39
8	847-600	DISTANCE TUBE	1	1		$43.56
9	922-115	CONNECTING HOSE 110 MM	1	1		$29.96
10	951-880	CLAMP 20-32	4	4		$5.98
11	922-124	CONNECTING HOSE 150 MM	1	1		$19.96
12	951-870	CLAMP 16-25	4	4		$5.71
13	995-917	RADIATOR WITH FILLER CAP	1a	1a		$366.21
14	922-075	RADIATOR CAP WITH GASKET 1,2 BAR	1	1		$46.25
15	922-193	WATER TUBE	1	1		$86.84
16	974-530	FUEL HOSE A5X8	ARf	ARf		$1.65
16	974-542	FUEL TUBE 250 MM	1	1		$12.65
17	866-710	CLAMP 142X2,5 MM	2	2		$1.18
18	956-260	LOW PRESSURE HOSE GC 7,5X12,5	ARf	ARf		$47.56
18	956-262	RADIATOR HOSE 95 MM	2	2		$7.88
19	974-839	REDUCTION T-PEACE 8-6-8	1	1		$15.92
20	951-241	CLAMP 12	4	4		$4.62
21	860-300	LOW PRESSURE HOSE GC 6X11	ARf	ARf		$53.75
21	860-303	LOW PRESSURE HOSE 335 MM	1	1		$19.96
22	951-898	CLAMP 7-11	2	2		$8.26
23	922-113	BENT HOSE	1	1		$43.56
24	847-760	THREADED SPACER M6/M10	2b	2b		$5.26
24	847-730	SPACER 6,5/18/9	2c	2c		$15.87
25	922-061	BENT OUTLET SOCKET	1	1		$51.94
26	240-480	PLUG SCREW 1/8-27NPT	1	1		$5.22
27	240-490	STUD M8X84	4e			$10.21
28	222-388	WATER PUMP HOUSING	1			$219.53
28	922-502	WATER PUMP HOUSING		1		$170.87
29	230-415	SEALING RING A 6X10 DIN 7603	2	2		$1.34
30	841-580	HEX.SCREW M6X8	2	2		$0.53
31	940-551	HOSE NIPPLE	1d	1d		$16.70

a COOLING SURFACE 2,4 DM² (37.2 IN²)
b FROM ENGINE S/N: 3,916.823
c UP TO ENGINE S/N: 4,916.822
d FOR EVACUATION OF AIR, AT INSTALLATION OF ENGINE WITH SPARK PLUGS DOWN.
e LONGER STUDS FOR 582 UL MOD. 90 AND 618 UL.
f IN A ROLL



A: LOCTITE 221 - P/N 899-785
Q: SILASTIC 732 RTV - P/N 297-386

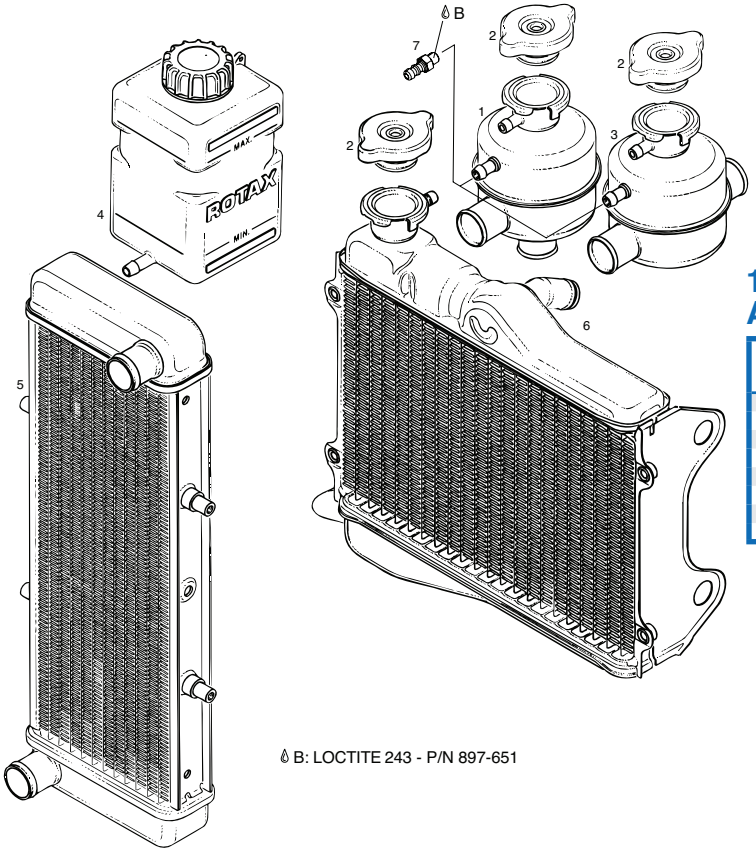


A: LOCTITE 221 - P/N 899-785
Q: SILASTIC 732 RTV - P/N 297-386

2-PIECE RADIATOR SET (HIGH CONFIGURATION)

NO	PART #	DESCRIPTION	582 m90	582 m99	618	PRICE
1-25	881-433	RADIATOR SET	1	1	1	$750.00
1	851-122	RADIATOR BRACKET RIGHT	1	1	1	$66.47
2	851-127	RADIATOR BRACKET LEFT	1	1	1	$66.47
3	260-657	RUBBER BUFFER 25X20XM6	6	6	6	$25.19
4	995-914	RADIATOR WITHOUT FILLER CAP	1a	1a	1a	$455.45
5	244-211	WASHER 6,4 DIN 134	12	12	12	$0.18
6	945-751	LOCK WASHER A6 DIN 128	8	8	8	$0.16
7	242-211	HEX.NUT M6	6	6	6	$0.39
8	241-186	HEX.SCREW M6X16	2	2	2	$0.48
9	847-600	DISTANCE TUBE	1	1	1	$43.56
10	847-605	DISTANCE BOLT	2	2	2	$43.56
11	922-115	CONNECTING HOSE 110 MM	1	1	1	$29.96
12	951-880	CLAMP 20-32	4	4	4	$5.98
13	922-124	CONNECTING HOSE 150 MM	1	1	1	$19.96
14	951-870	CLAMP 16-25	4	4	4	$5.71
15	995-919	RADIATOR WITH FILLER CAP	1a	1a	1a	$455.45
16	922-070	RADIATOR CAP WITH GASKET 1,2 BAR	1	1	1	$44.70
17	922-193	WATER TUBE	1	1	1	$86.84
18	974-530	FUEL HOSE A5X8	ARf	ARf	ARf	$1.65
18	974-542	FUEL TUBE 250 MM	1	1	1	$12.65
19	866-710	CLAMP 142X2,5 MM	1	1	1	$1.18
20	956-260	LOW PRESSURE HOSE GC 7,5X12,5	ARf	ARf	ARf	$47.56
20	956-202	RADIATOR HOSE 95 MM	2	2	2	$7.88
21	974-839	REDUCTION T-PEACE 8-6-8	1	1	1	$15.92
22	951-241	CLAMP 12	4	4	4	$4.62
23	860-300	LOW PRESSURE HOSE GC 6X11	ARf	ARf	ARf	$53.75
23	862-303	LOW PRESSURE HOSE 365 MM	1	1	1	$19.96
24	951-898	CLAMP 7-11	2	2	2	$8.26
25	922-381	BENT HOSE 25/90 DEGR.	1	1	1	$69.56
26	847-760	THREADED SPACER M6/M10	1	1	1	$5.26
26	847-730	SPACER 6,5/18/9		2c		$15.87
27	922-061	BENT OUTLET SOCKET	1	1	1	$51.94
28	240-480	PLUG SCREW 1/8-27NPT	1	1	1	$5.22
29	240-490	STUD M8X84	4e		4e	$10.21
30	222-388	WATER PUMP HOUSING	1			$219.53
30	922-503	WATER PUMP HOUSING		1	1	$242.14
31	230-415	SEALING RING A 6X10 DIN 7603	2	2	2	$1.34
32	841-580	HEX. SCREW M6X8	2	2	2	$0.53
33	940-551	HOSE NIPPLE M6	1d	1d	1d	$16.70

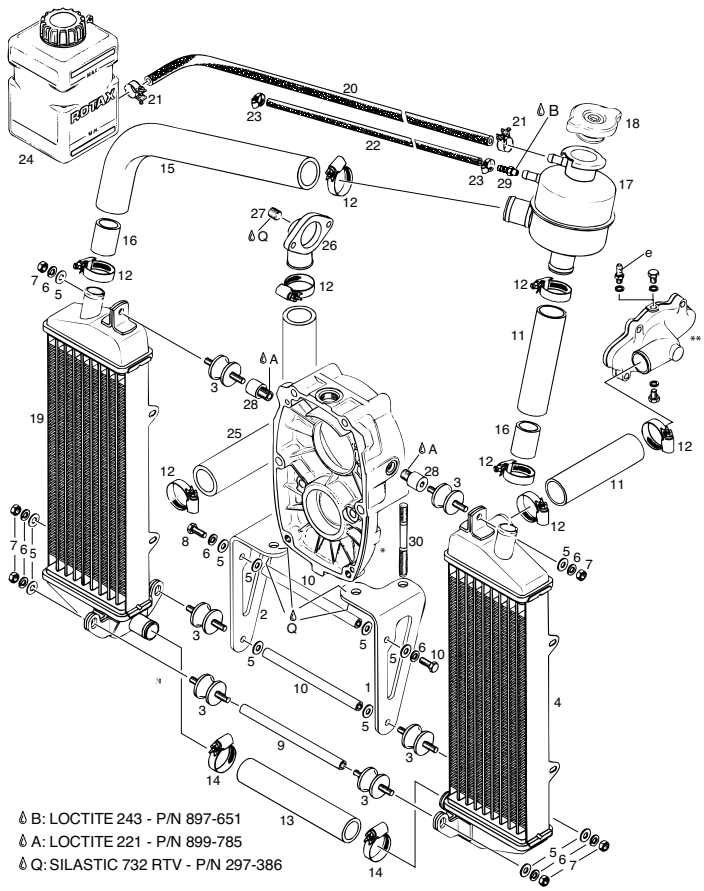
a COOLING SURFACE 3,2 DM² (49,6 IN)
b FROM ENGINE S/N: 3,916.823
c UP TO ENGINE S/N: 4,916.822
d FOR EVACUATION OF AIR, AT INSTALLATION OF ENGINE WITH SPARK PLUGS DOWN.
e LONGER STUDS FOR 582 UL MOD. 90 AND 618 UL
f IN A ROLL.



B: LOCTITE 243 - P/N 897-651

1-PIECE RADIATOR, OVERFLOW BOTTLE AND EXPANSION TANK

NO	PART #	DESCRIPTION	582 m90	582 m99	618	PRICE
1-2	922-312	EXPANSION TANK ASSY. 90 DEGREE	1	1	1	$134.00
2-3	922-317	EXPANSION TANK ASSY. 180 DEGREE	1	1	1	$134.00
2	922-070	RADIATOR CAP WITH GASKET 1,2 BAR	1	1	1	$44.70
3	922-317	EXPANSION TANK 180 DEGR.,	1	1	1	$134.00
4	922-327	OVERFLOW BOTTLE WITH CAP	1	1	1	$39.99
5	997-080	RADIATOR	1	1	1	$464.58
6	995-699	RADIATOR	1	1	1	$439.00
7	940-551	HOSE NIPPLE M6	1	1	1	$16.70



B: LOCTITE 243 - P/N 897-651
A: LOCTITE 221 - P/N 899-785
Q: SILASTIC 732 RTV - P/N 297-386

2-PIECE RADIATOR SET FOR INVERTED ENGINE INSTALLATION

NO	PART #	DESCRIPTION	582 m90	582 m99	618	PRICE
1	851-122	RADIATOR BRACKET RIGHT	1	1	1	$66.47
2	851-127	RADIATOR BRACKET LEFT	1	1	1	$66.47
3	260-657	RUBBER BUFFER 25X20XM6	6	6	6	$25.19
4	995-913	RADIATOR WITHOUT FILLER CAP	1a	1a	1a	$609.10
5	244-211	WASHER 6,4 DIN 134	12	12	12	$0.18
6	945-751	LOCK WASHER A6 DIN 128	6	6	6	$0.16
7	242-211	HEX.NUT M6	2	2	2	$0.39
8	241-186	HEX.SCREW M6X16	1	1	1	$0.48
9	847-600	DISTANCE TUBE	2	2	2	$43.56
10	847-605	DISTANCE BOLT	2	2	2	$43.56
11	922-115	CONNECTING HOSE 110 MM	8	8	8	$29.96
12	951-880	CLAMP 20-32	1	1	1	$5.98
13	922-124	CONNECTING HOSE 150 MM	2	2	2	$19.96
14	951-870	CLAMP 16-25	1	1	1	$5.71
15	922-111	BEND HOSE	2	2	2	$63.66
16	922-121	ADAPTER HOSE 30 MM	1f	1f	1f	$10.30
17-18	922-312	EXPANSION TANK 90 DEGR.	1	1	1	$134.00
18	922-070	RADIATOR CAP WITH GASKET 1,2 BAR	1	1	1	$44.70
19		RADIATOR WITHOUT FILLER CAP	1ag	1ag	1ag	NLA
20	956-260	LOW PRESSURE HOSE GC 8X12	ARf	ARf	ARf	$47.56
20		RADIATOR HOSE 1000 MM	2	2	2	*
21	951-241	CLAMP 12	1	1	1	$4.62
22	860-300	LOW PRESSURE HOSE GC 6X11	ARf	ARf	ARf	$53.75
22		LOW PRESSURE HOSE 280 MM	2	2	2	*
23	951-898	CLAMP 7-11	2	2	2	$8.26
24	922-327	OVERFLOW BOTTLE WITH CAP	1	1	1	$39.99
25	922-381	BENT HOSE 25/90 DEGR.	1	1	1	$69.56
26	922-061	BENT OUTLET SOCKET	1	1	1	$51.94
27	240-480	PLUG SCREW 1/8-27NPT	1	1	1	$5.22
28	847-760	THREADED SPACER M6/M10	2b			$5.26
28	847-730	SPACER 6,5/18/9		2c		$15.87
29	940-551	HOSE NIPPLE M6	1	1	1	$16.70
30	240-490	STUD M8X84	1e		1e	$10.21

*** CALL FOR PRICING!**

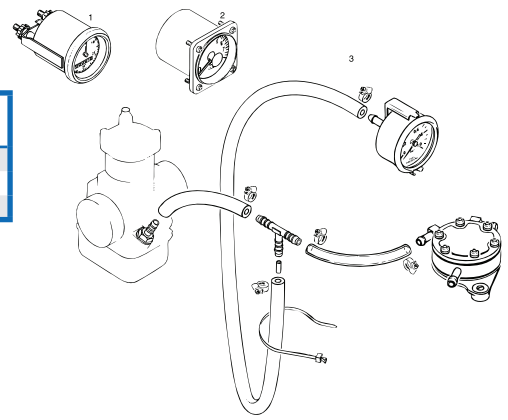
a COOLING SURFACE 3,2 DM2 (49,6 IN2)
b FROM ENGINE S/N: 3,916.823
c UP TO ENGINE S/N: 4,916.822
d FOR EVACUATION OF AIR, AT INSTALLATION OF ENGINE WITH SPARK PLUGS DOWN.
e LONGER STUDS FOR 582 UL MOD. 90 AND 618 UL
f IN A ROLL.
g NO LONGER AVAILABLE

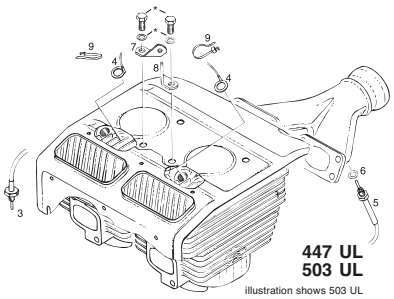
RTX

INSTRUMENTS

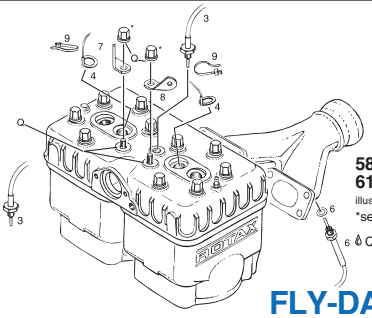
NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	966-075	HOUR METER	1	1	1	1	1	$330.85
2	966-405	REVOLUTION COUNTER 0-8000 R.P.M.	1	1	1	1		$219.99
3	874-230	FUEL PRESSURE GAUGE	1a	1a	1a	1a	1a	$204.12

a WITHOUT CARBURETOR AND PUMP

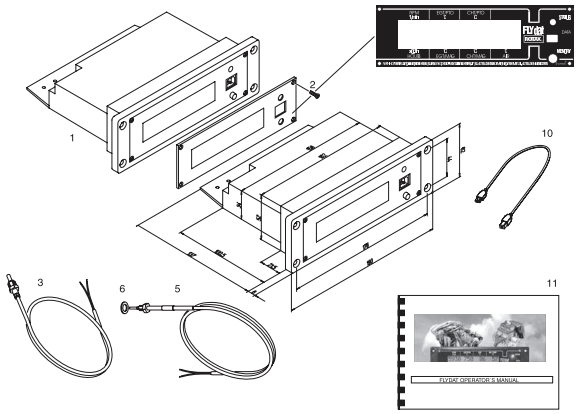




447 UL
503 UL
illustration shows 503 UL
*see chapter 5.6 - 6.7



582 UL mod 90/99
618 UL
illustration shows 582 UL mod. 90
*see chapter 7.4 - 8.4
Q: SILASTIC 732 RTV - P/N 297-386



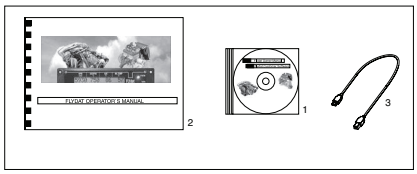
FLY-DAT UNIT

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	886-858	FLYDAT ASSY. ENGLISH	1ae	1ae	1ae	1ae	1ae	*
2	941-710	COUNTER SUNK SCREW M2,5X10	4	4	4	4	4	NLA
3-9	886-972	SENSOR SET AC	AR	AR	AR			$978.48
3-9	886-970	SENSOR SET AC	AR	AR	AR			$978.48
3	966-381	RESISTANCE SENSOR 1/8-27NPT	1b	1b	2b	2b	2b	$252.23
4	966-375	SPARK PLUG THERMO COUPLE	2c	2c	2c	2c	2c	$140.63
5	966-370	THERMO COUPLE NICR-NI K	2d	2d	2d	2d	2d	$232.57
6	950-141	GASKET RING A 8X13 DIN 7603	2	2	2	2	2	$1.45
7	851-266	IGNITION COIL BRACKET 3	1	1	1	1	1	$10.76
8	851-268	BRACKET	1	1	1	1	1	$10.76
9	866-710	CLAMP 142X2,5 MM	2	2	2	2	2	$1.18
10		PC-CONNECTING CABLE	1f	1f	1f	1f	1f	NLA
11		OPERATOR´S MANUAL	1aef	1aef	1aef	1aef	1aef	NLA

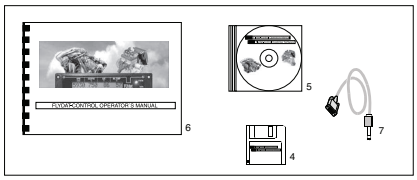
a IN ENGLISH LANGUAGE
b SENSOR FOR WATER-AND AIR TEMPERATURE.
c SENSOR FOR CYLINDERHEAD TEMPERATURE.
d SENSOR FOR EXHAUST GAS TEMPERATUR.
e NEW FLYDAT VERSION/ PART FOR NEW FLYDAT, WITH USB INTERFACE
f NOT AVAILABLE AS A SPARE PART. IS IN THE SCOPE OF SUPPLY OF THE FLYDAT MONITORING SET.

*** CALL FOR PRICING!**

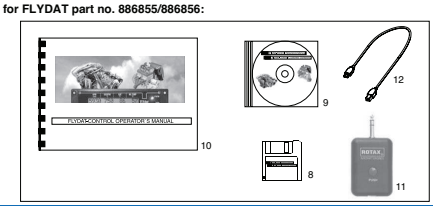
for FLYDAT part no 886858:



for FLYDAT part no. 886857:



for FLYDAT part no. 886855/886856:

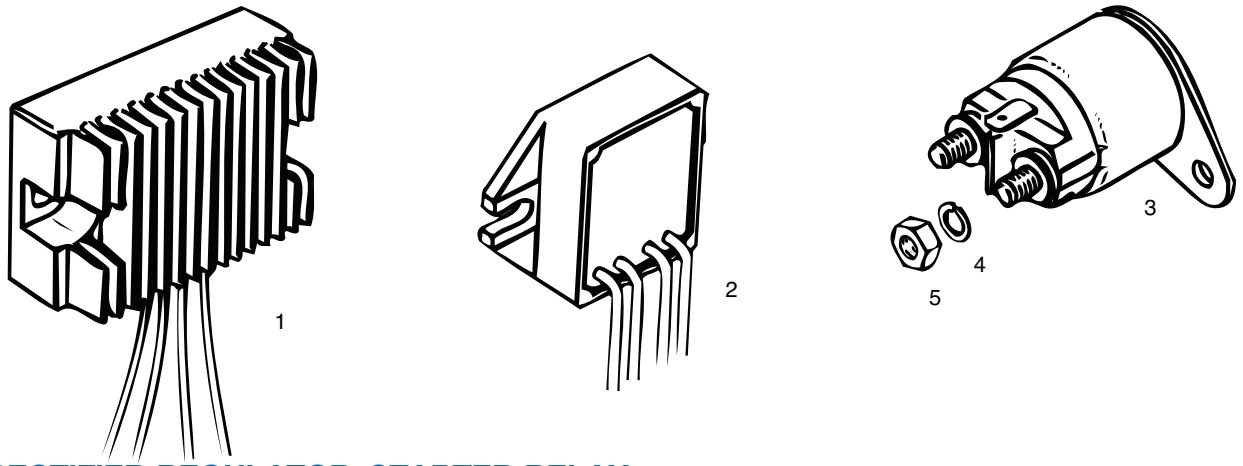


FLYDAT MONITORING/ COMMUNICATION SET

NO	PART#	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	N.A.	CD-ROM, MANUAL, SOFTWARE	1a	1a	1a	1a	1a	NLA
2	N.A.	OPERATORS MANUAL	1a	1a	1a	1a	1a	NLA
3	N.A.	COMMUNICATION CABLE USB 2.0 A TO B	1a	1a	1a	1a	1a	NLA
4	N.A.	DISQUETTE 3 1/2" MANUAL A. SOFTWARE	1b	1b	1b	1b	1b	NLA
5	N.A.	CD-ROM, MANUAL, SOFTWARE	1b	1b	1b	1b	1b	NLA
6	N.A.	OPERATOR'S MANUAL	1b	1b	1b	1b	1b	NLA
7	898-380	PC-CONNECTING CABLE	1	1	1	1	1	$101.61
8-12	891-315	FLYDAT-MONITORING-SET	1	1	1	1	1	$832.33
8-12		FLYDAT-COMMUNICATION-SET	1d	1d	1d	1d	1d	*
8	N.A.	DISQUETTE 3 1/2" MANUAL A. SOFTWARE	1c	1c	1c	1c	1c	NLA
9	N.A.	CD-ROM, MANUAL, SOFTWARE	1c	1c	1c	1c	1c	NLA
10	N.A.	OPERATORS MANUAL	1c	1c	1c	1c	1c	NLA
11	N.A.	FLYDAT CONTROL UNIT	1c	1c	1c	1c	1c	NLA
12	N.A.	COMMUNICATION CABLE USB 2.0 A TO B	1c	1c	1c	1c	1c	NLA

a NOT AVAILABLE AS SPARE PART. IS IN THE SCOPE OF SUPPLY OF THE FLYDAT ASSY. PART NO. 886-858.
b NOT AVAILABLE AS SPARE PART. IS IN THE SCOPE OF SUPPLY OF THE FLYDAT ASSY. PART NO. 886-857.
c NOT AVAILABLE AS SPARE PART. IS IN THE SCOPE OF SUPPLY OF THE FLY DAT MONITORING SET
d ONLY AVAILABLE FOR AUTHORIZED DISTRIBUTORS.

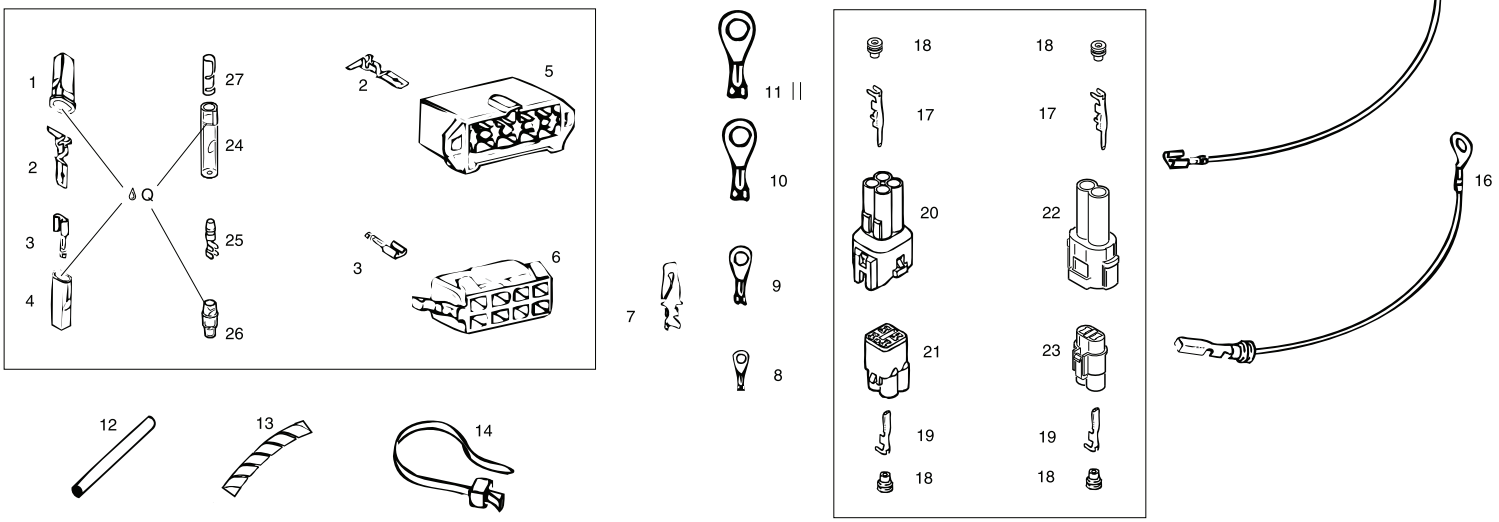
*** CALL FOR PRICING!**



RECTIFIER-REGULATOR, STARTER-RELAY

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	264-870	RECTIFIER-REGULATOR	1a	1a	1a	1a	1a	$73.68
2	866-080	TYMPANIUM RECTIFIER-REGULATOR	1b	1b	1b	1b	1b	$37.50
3	992-819	STARTER RELAY ASSY.,	1c	1c	1c	1c	1c	$193.47
4	945-751	LOCK WASHER A6 DIN 128	2	2	2	2	2	$0.16
5	242-211	HEX.NUT M6	2	2	2	2	2	$0.39

a NO MINIMUM LOAD REQUIRED.
b REQUIRES MINIMUM LIAD 12 W (1A) TO REGULATE.
c FOR USE AT MAGNETO SIDE STARTER AND E-TYPE GEARBOX STARTER.



Q: SILASTIC 732 RTV - P/N 297-386

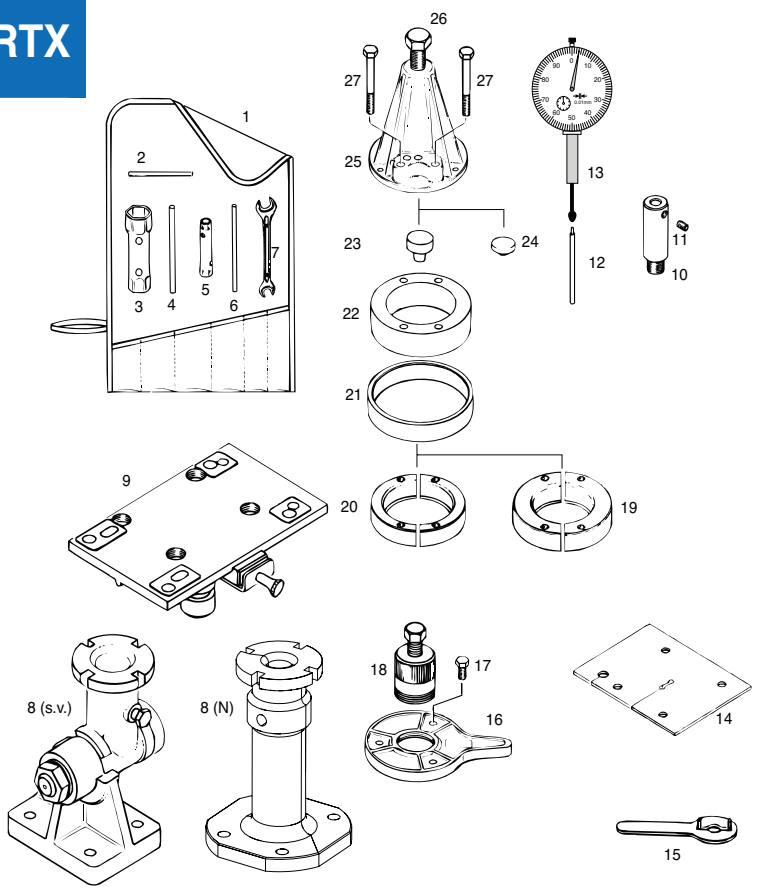
WIRING ACCESSORIES

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	960-970	CONNECTOR SHEATH, YELLOW	AR	AR	AR	AR	AR	$1.34
2	866-300	FASTON CONNECTOR 6,3X0,8	AR	AR	AR	AR	AR	$2.52
3	864-011	FASTON CONNECTOR 6,3X0,8	AR	AR	AR	AR	AR	$1.34
4	960-719	CONNECTOR SHEATH	AR	AR	AR	AR	AR	$0.63
5	866-025	CONNECTOR HOUSING	AR	AR	AR	AR		$9.02
6	866-010	CONNECTOR HOUSING	AR	AR	AR	AR		$17.33
7	866-305	FASTON CONNECTOR 6,3X0,8	AR	AR	AR	AR	AR	$4.33
8	965-706	CABLE SHOE M3	AR	AR	AR	AR	AR	$0.81
9	965-700	CABLE SHOE M4	AR	AR	AR	AR	AR	*
10	964-055	CABLE TERMINAL M5	AR	AR	AR	AR	AR	$0.81
11	964-052	CABLE TERMINAL M6	AR	AR	AR	AR	AR	*
12	860-621	SHRINK HOSE 40 MM	AR	AR	AR	AR	AR	$5.22
13	966-060	SPIRAL HOSE 6,5X8,5X0,6				AR		$10.25
14	866-710	CLAMP 142X2,5 MM	AR	AR	AR	AR	AR	$1.18

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
15	865-992	MASS CABLE ASSY., 420MM	1	1				$6.36
15	865-993	MASS CABLE ASSY., 170MM			1		1	$10.21
16	N.A.	MASS CABLE ASSY., 170MM				1		*
17	265-210	FLAT PIN TERMINAL				AR		$1.81
18	260-130	CABLE GROMMET				AR		$2.15
19	265-275	FASTON CONNECTOR				AR		$2.33
20	265-262	CONNECTOR HOUSING 4-POLE				AR		$13.47
21	265-260	CONNECTOR HOUSING 4-POLE				AR		$6.21
22	265-200	CONNECTOR HOUSING 2-POLE				AR		$14.09
23	265-205	CONNECTOR HOUSING 2-POLE				AR		$9.58
24	964-072	INSULATION SHEATH	AR	AR	AR	AR	AR	$2.15
25	964-067	FASTON CONNECTOR 3,96	AR	AR	AR	AR	AR	$2.15
26	964-077	INSULATION SHEATH	AR	AR	AR	AR	AR	$2.39
27	964-062	FASTON CONNECTOR 3,96	AR	AR	AR	AR	AR	$2.15

*** CALL FOR PRICING!**

RTX



GENERAL REPAIR-TOOLS

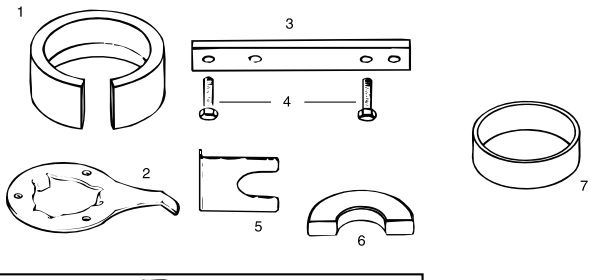
NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1-7	876-932	REPAIR TOOLS	1	1	1	1	1	NLA
1	876-197	TOOL BAG 230X160	1	1	1	1	1	$12.70
2	876-640	CRANKSHAFT FIXATION BOLT	1	1	1	1	1	$2.28
3	876-210	SOCKET WRENCH 21X26 MM	1	1	1	1	1	$10.61
4	977-420	HAND LEVER 8X130-10	1	1	1	1	1	$3.15
5	876-227	SOCKET WRENCH 10X13 MM	1	1	1	1	1	$7.03
6	977-425	HAND LEVER 6X130	1	1	1	1	1	$2.86
7	276-065	FORK WRENCH 10X13 MM	1	1	1	1	1	$7.16
8-9S.V.	876-740	TRESTLE ASSY.,	1a	1a	1a	1a	1a	$1,147.68
8	877-930	TRESTLE SUPPORT ASSY.,	1a	1a	1a	1a	1a	$686.45
9	876-746	MOUNTING PLATE WITH DETENT	1a	1a	1a	1a	1a	$517.62
10	876-940	GAUGE ADAPTER	1b	1b	1b	1b	1b	$73.60
11	841-771	SET SCREW M6X8	1b	1b	1b	1b	1b	$1.68
12	876-945	GAUGE PIN	1b	1b	1b	1b	1b	$27.04
13	876-950	PRECISION DIAL GAUGE	1b	1b	1b	1b	1b	$250.54
14	877-031	RUBBER PROTECTION MAT	1c	1c	1c	1c	1c	$30.02
15	277-905	WRENCH		1d	1d	1d	1d	$30.38
16	876-081	PULLER PLATE	1e	1e	1e	1e	1e	$84.84
17	940-591	HEX.SCREW M8X20	3	3	3	3	3	$1.16
18	876-065	PULLER M42X1,5 ASSY.,	1f	1f	1f	1f	1f	$76.95
19	276-025	RING HALF			1g	1g	1g	$150.55
20	977-475	RING HALF	1h	1h	1h	1h	1h	$107.42
21	977-490	RING	1i	1i	1i	1i	1i	$68.17
22	876-569	DISTANCE RING 72/105/28	1j	1j	1j	1j	1j	$135.44
23	876-552	PROTECTION MUSHROOM	1k	1k	1k	1k	1k	$7.58
24	876-557	PROTECTION MUSHROOM	1l	1l	1l	1l	1l	$16.87
25-27N	877-636	PULLER ASSY.	1m	1m	1m	1m	1m	$217.00
26	940-755	HEX. SCREW M16X1,5X150	1	1	1	1	1	$36.16
27	841-201	HEX. SCREW M8X70	4	4	4	4	4	$2.62

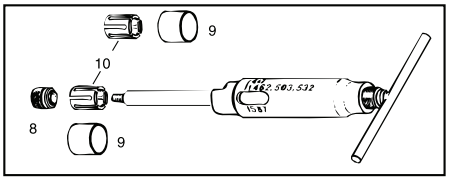
a USEABLE FOR ENGINE TYPE 447 UL, 503 UL, 582 UL 90/99 AND 618 UL
b FOR ADJUSTMENT AND CONTROLL OF THE IGNITION TIMING.
c TO COVER THE CRANKCASE.
d TO HOLD THE OILPUMP GEAR.
e TO HOLD THE MAGNETO FRYWHEEL.
f FOR MAGNETO FLYWHEEL.
g FOR BALL BEARING 6206, CRANKSHAFT MAGNETO SIDE.
h FOR BALL BEARING 6207, CRANKSHAFT.
i FOR RING HALVES.
j FOR PULLER
k FOR CRANKSHAFT P.T.O. SIDE.
l FOR CRANKSHAFT MAGNETO SIDE.
m FOR BALL BEARING

REPAIR TOOLS AND GASKET SET: 447 UL AND 503 UL

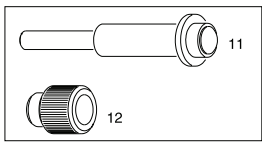
NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	876-975	PISTON RING SPANNER 67,5 MM	1a					NLA
2	876-357	FAN HOLDER	1c	1c				$20.46
3	876-171	CYLINDER ALIGNING TOOL	1d	1d				$75.95
4	240-275	HEX. SCREW M8X25 DIN 933	2	2				$1.18
5	876-620	DISTANCE GAUGE	1e	1e				NLA
6	876-822	DISTANCE GAUGE	1f					$78.22
6	876-824	DISTANCE GAUGE P.T.O. SIDE		1f				$105.89
7	876-920	CENTERING RING	1g					$83.30
8-10	877-091	PISTON PIN EXTRACTOR ASSY.	1h	1h				$415.10
8	877-155	EXTRACTING NUT ASSY.,	1	1				$76.95
9 S.V.	877-180	LOCATING SLEEVE	2	2				$5.98
10	877-040	EXPANSION SLEEVE	2	2				$126.25
11-12	877-015	CIRCLIP INSTALLATION TOOL ASSY.,	1i	1i				$167.30
11	877-020	CIRCLIP INSTALLATION SLEEVE	1	1				$87.13
12	877-010	CIRCLIP INSTALLATION PUSHER	1	1				$87.79
13	994-869	GASKET SET	1j					$167.95
13	994-236	GASKET SET ENGINE	1j					$178.01

a FOR INSTALLATION OF CYLINDER ON THE PISTON 67,5 MM.
b FOR INSTALLATION OF CYLINDER ON THE PISTON 72 MM.
c TO HOLD THE FAN.
d FOR ALIGNING OF CYLINDERS AT THE INTAKE FLANGE.
e FOR CRANKSHAFT BEARING P.T.O. SIDE.
f FOR POSITIONING OF CRANKSHAFT BEARING P.T.O. SIDE.
g FOR CENTERING OF THE STATOR PLATE.
h FOR PISTON PIN 18 MM.
i FOR INSTALLATION OF PISTON PIN CIRCLIP 18 MM.
j FOR THE ENGINE.
WITHOUT IGNITION AND EXTERNALS.



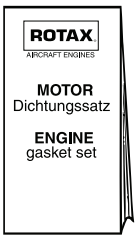


8 - 10

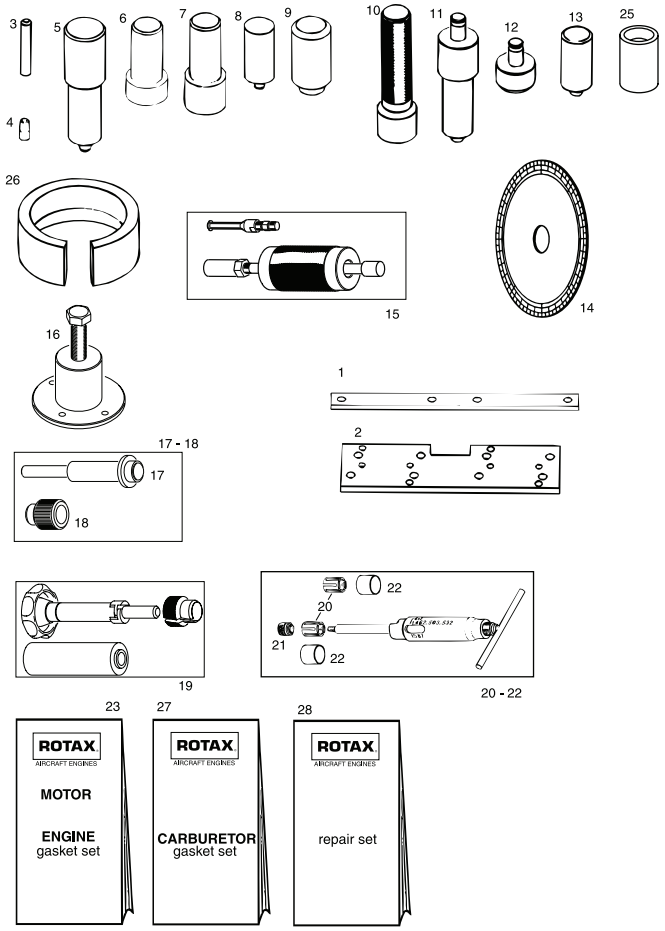


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13



RTX



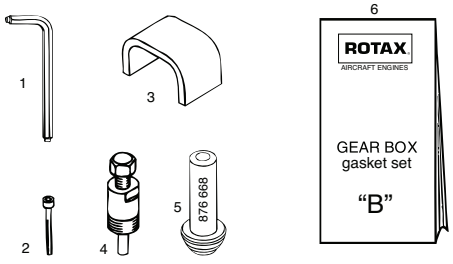
REPAIR TOOLS AND GASKET SET: 582 UL AND 618 UL

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	876-572	ALIGNING TOOL			1a	1a		$49.26
1		ALIGNING TOOL					1a	NLA
2	876-904	ALIGNING TOOL			1b	1b	1b	$102.47
3	876-612	EXTRUSION JIG			1c	1c	1c	$40.46
4	876-980	GUIDE SLEEVE			1c	1c		$22.55
4	876-982	GUIDE SLEEVE					1c	$32.37
5	876-500	INSERTION JIG			1d	1d		$67.48
6 S.V.	876-607	INSERTION JIG (WAS 876-602)			1e	1e		$64.23
7	876-607	INSERTION JIG			1f	1f	1f	$64.23
8	876-512	INSERTION JIG			1g	1g		$56.64
9	877-054	INSERTION JIG			1h			$39.79
10	877-650	HANDLE FOR INSERTION JIG					1	$126.25
11	876-502	INSERTION JIG					1d	NLA
12	877-255	INSERTION JIG					1ir	$83.30
13	876-510	INSERTION JIG					1g	$50.60
14	277-150	DEGREE DISK			1j	1j	1j	$96.16
15	877-860	PULLER ASS'Y				1k		$547.00
16	877-825	INSERTION JIG				1i		$339.27
17-18	877-015	CIRCLIP INSTALLATION TOOL ASSY.,			1l		1l	$167.30
17	877-010	CIRCLIP INSTALLATION PUSHER			1		1	$87.79
18	877-020	CIRCLIP INSTALLATION SLEEVE			1		1	$87.13
19	877-805	CIRCLIP INSTALLATION TOOL				1m	1m	$586.02
20-22	877-091	PISTON PIN EXTRACTOR ASSY.			1	1	1	$415.10
20	877-040	EXPANSION SLEEVE			1	1	1	$126.25
21		EXTRACTING NUT ASSY.,			1	1	1	*
22	877-180	LOCATING SLEEVE			1	1	1	$5.98
23	886-230	GASKET SET			1n			$259.00
23	886-232	GASKET SET				1		$310.13
23	886-238	GASKET SET					1o	$347.09
25	877-900	INSERTION JIG					1q	$86.14
26		PISTON RING SPANNER 76 MM			1	1		*
27	996-949	GASKET SET CARBURETOR 2 STROKE			1st	1st	1st	*
28 N	881-030	REPAIR SET				1u		$1,737.53

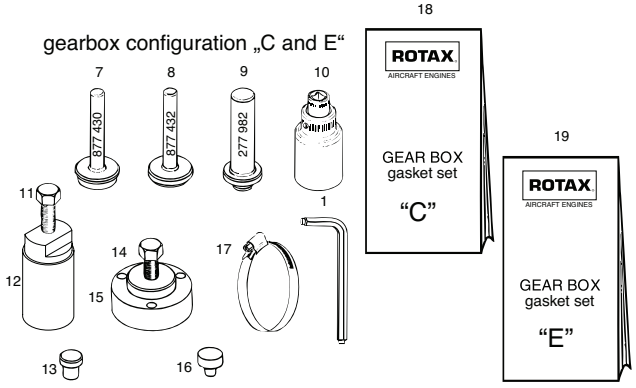
*** CALL FOR PRICING!**

a FOR CYLINDER
b FOR CYLINDER EXHAUST-FLANGE.
c FOR ROTARY VALVE SHAFT.
d FOR BALL BEARING, ROTARY VALVE SHAFT.
e FOR OIL SEAL ROTARY VALVE SHAFT (WITHOUT OIL PUMP), INTAKE-SIDE.
f FOR OIL SEAL ROTARY VALVE SHAFT (WITH OIL PUMP), INTAKE-SIDE.
g FOR INNER OIL SEAL ROTARY VALVE SHAFT, WATERPUMP SIDE.
h FOR OUTER OIL SEAL ROTARY VALVE SHAFT, WATERPUMP SIDE.
i TO PRESS IN THE ROTARY SEAL.
j FOR ROTARY VALVE TIMING.
k TO PULL OUT THE ROTARY SEAL- THE INNER STEEL BUSHING OF THE ROTARY SEAL HAS TO BE REMOVED BEFORE DEMOUNTING!
l FOR FITTING OF PISTON PIN CIRCLIP.
m FOR FITTING OF PISTON PIN CIRCLIP. (MONOHOOK-CIRCLIP).
n FOR ENGINE 582 UL DCDI MOD.90.
o FOR ENGINE AND RAVE.
p FROM ENGINE S/N 5.305.901
q TO PRESS IN THE ROTARY SEAL 850942 (PAGE 8.2-4) WITH THE INSERTION JIG (16)
r ONLY FOR ROTARY SEAL (618 UL)
s FOR INCLUDED PARTS SEE 9.3.1
t FOR CARBURETOR 36 MM
u 23 (GASKET SET) + SPARK PLUG CAPS, CARBURATOR SOCKETS, CLAMP 62, CLAMP 53, CRANKSHAFT, PISTONS, SPARK PLUGS

gearbox configuration „B“



gearbox configuration „C and E“



REPAIR TOOLS AND GASKET SET: B, C & E GEARBOXES

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	277-817	ALLEN KEY WITH PILOT, 8 MM	1a	1a	1a	1a	1a	$13.47
2	241-875	ALLEN SCREW M6X70/45	1b	1b	1b	1b		$12.85
3	876-880	MOUNTING YOKE	1c	1c	1c	1c		$40.46
4	276-808	PULLER ASSY. M 28X1	1d	1d	1d	1d		$188.74
5	876-668	INSERTION JIG ASSY.,	1e	1e	1e	1e		$160.63
6	995-781	GASKET SET	1f	1f	1f	1f		$61.25
7	877-430	INSERTION JIG ASSY.,	1g	1g	1g	1g	1g	$89.73
8	877-432	INSERTION JIG ASSY.,	1h	1h	1h	1h	1h	$89.73
9	277-982	INSERTION JIG ASSY.,	1i	1i	1i	1i	1i	$105.89
10	877-445	SOCKET WRENCH ASSY. 41X12,5	1	1	1	1	1	$339.27
11-12	877-379	PULLER ASSY.,	1i	1i	1i	1i	1i	$137.74
11	940-755	HEX. SCREW M16X1,5X150	1j	1j	1j	1j	1j	$36.16
13	877-415	PROTECTION MUSHROOM	1	1	1	1	1	$33.10
14-15	877-425	FLYWHEEL PULLER ASSY.,	1k	1k	1k	1k	1k	$189.38
14	941-680	HEX.SCREW M16X1,5X56	1	1	1	1	1	$24.44
16	876-552	PROTECTION MUSHROOM	1	1	1	1	1	$7.58
17	851-160	CLAMP 90-110	1l	1l	1l	1l	1l	NLA
18	995-775	GASKET SET	1m	1m	1m	1m	1m	$101.36
19	995-776	GASKET SET	1n	1n	1n	1n	1n	$103.46

a FOR INTERNAL HEX. SCREW
b TO REMOVE THE GEAR COVER.
c TO COMPRESS THE DOG GEAR.
d FOR DRIVE GEAR, I=2,00; I=2,24; I=2,58.
e FOR OIL SEAL 850 055
f FOR GEARBOX CONFIGURATION „B“
g FOR OIL SEAL 930715
h FOR OIL SEAL 950085 AND 950084
i FOR OIL SEAL 933675
j TO REMOVE THE LAYSHAFT-GEAR.
k TO REMOVE THE FLYWHEEL.
l FOR MOUNTING THE HARDY DISK.
m FOR GEARBOX CONFIGURATION „C“
n FOR GEARBOX CONFIGURATION „E“

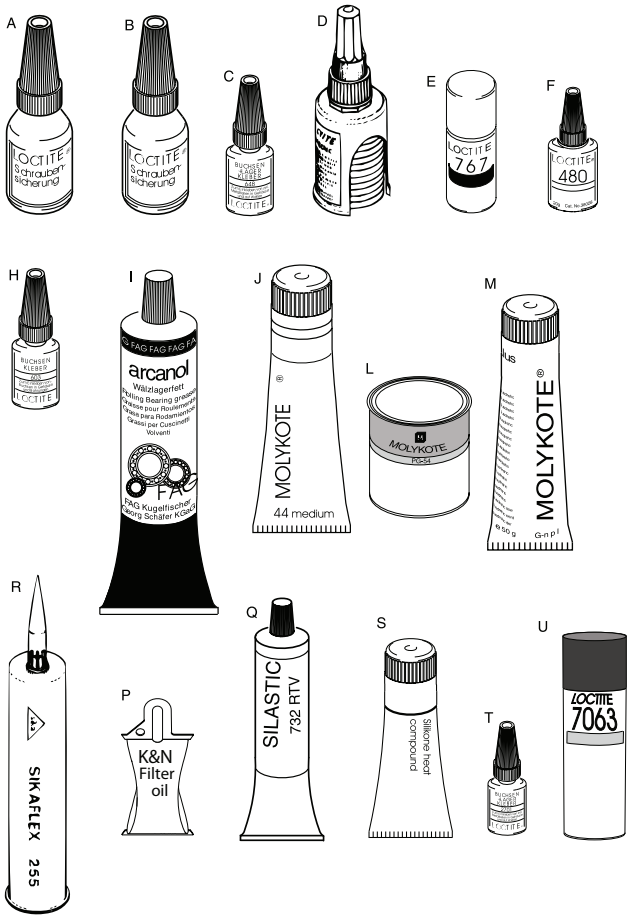
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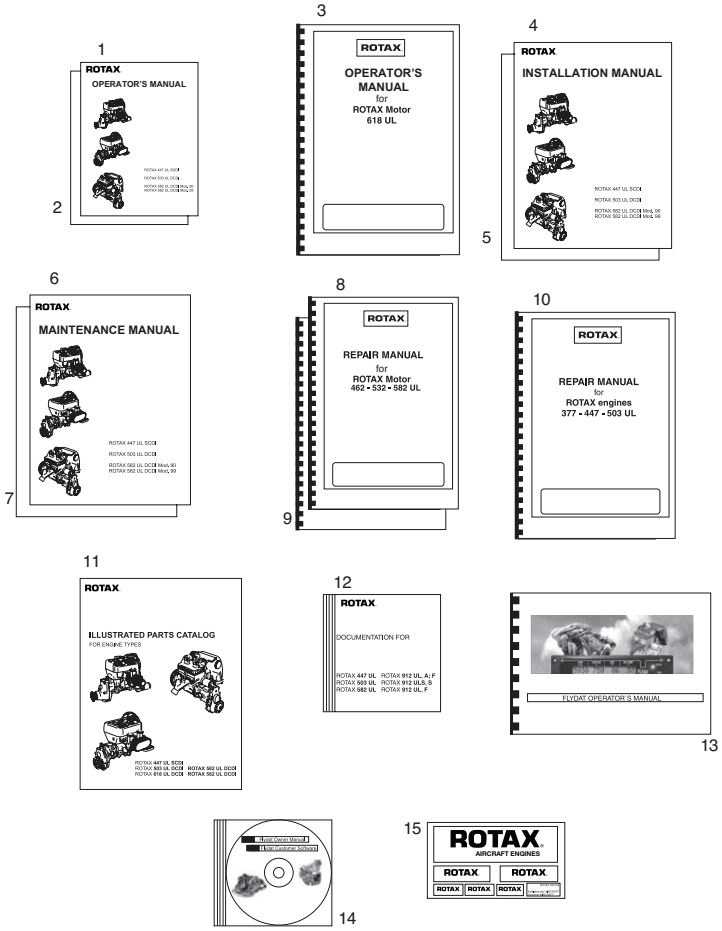
LUBRICANT ADHESIVES AND SEALING COMPOUND

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
A	899-785	LOCTITE 221 VIOLET, 10 CC.,	ARa	ARa	ARa	ARa	ARa	NLA
B	897-651	LOCTITE 243 BLUE, 10 CC.	ARb	ARb	ARb	ARb	ARb	$16.65
C	899-788	LOCTITE 648 GREEN, 5 GR.,	ARc	ARc	ARc	ARc	ARc	$28.50
D	899-784	LOCTITE 574 ORANGE 50 CC.,	ARd	ARd	ARd	ARd	ARd	$111.76
E	297-434	LOCTITE ANTI SEIZE 1537 8 50 ML.,	ARe	ARe	ARe	ARe	ARe	$29.71
F	898-241	LOCTITE 480 BLACK, GLUE 20 ML.,	ARf	ARf	ARf	ARf	ARf	$67.90
H	899-789	LOCTITE 603 GREEN, 10 CC.	ARg	ARg	ARg	ARg	ARg	$34.97
I	897-330	LITHIUM-BASE GREASE, 250 GR.,	ARh	ARh	ARh	ARh	ARh	$60.93
J	897-166	MOLYKOTE 44 MEDIUM, 100 GR.,	ARi	ARi	ARi	ARi	ARi	$132.79
L	899-763	MOLYKOTE PG 54	ARi	ARi	ARi	ARi	ARi	$50.48
M	297-433	MOLYKOTE G-N, SLIDE PASTE 50 GR.	AR	AR	AR	AR	AR	$92.94
N	9559	MULTI PURPOSE GREASE LZ	AR	AR	AR	AR	AR	$6.85
O	7777	AV-9 ENGINE OIL	AR	AR	AR	AR	AR	$7.65
P	897-870	INTAKE FILTER OIL 14,8 ML.	ARj	ARj	ARj	ARj	ARj	$24.66
Q	297-386	SILASTIC 732 RTV, 100 GR.,	ARk	ARk	ARk	ARk	ARk	$50.72
R	297-711	PU-GLUE	ARl	ARl	ARl	ARl	ARl	$107.27
S	897-186	SILICONE HEAT COMPOUND	ARm	ARm	ARm	ARm	ARm	$158.78
T	898-441	LOCTITE 2701	ARn	ARn	ARn	ARn	ARn	$30.46
U	898-450	DEGREASER LOCTITE 7063	ARo	ARo	ARo	ARo	ARo	*

*** CALL FOR PRICING!**

a LOW STRENGHT BOND; 10 CC.
b MEDIUM STRENGHT BOND; 10 CC.
c HIGH STRENGHT BOND; 5 GR.
d SEALING COMPOUND; 50 CC.
e TO PREVENT METAL GALLING; 50 CC.
f INSTANT ADHESIVE INCREASED FLEXIBILITY; 20CC.
g HIGH STRENGHT BOND; 10 CC.
h TO PREVENT LEAKAGE CURRENT; 250 GR.
i SILICON GREASE; 100 GR.
j BLISTER WITH 14,8 ML.
k 100 GR.
l FOR VIBRATION DAMPING, 310 CC.
m FOR BETTER HEAT TRANSFER FROM THE SPARK PLUGS
n HIGH STRENGTH BOND 5 ML
o DEGREASING FLUID



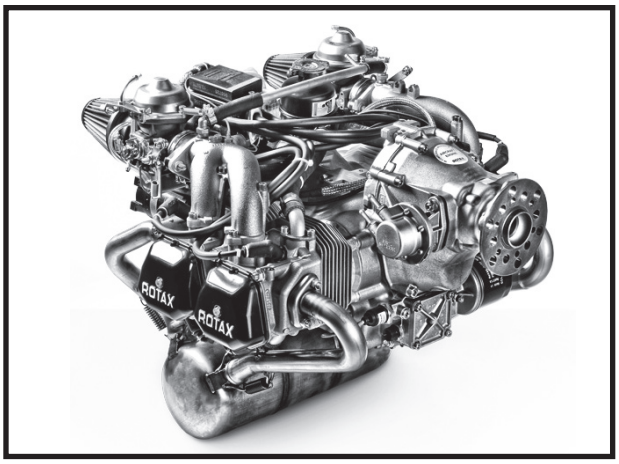


MANUALS AND DOCUMENTATION

NO	PART #	DESCRIPTION	447	503	582 m90	582 m99	618	PRICE
1	899-121	OPERATOR'S-MANUAL	1a	1a	1a	1a		*
2	899-120	OPERATOR'S-MANUAL	1b	1b	1b	1b	NBb	*
3		OPERATORS MANUAL					1cb	$28.50
4	899-483	INSTALLATION-MANUAL	1a	1a	1a	1a		$48.62
5	899-482	INSTALLATION-MANUAL	1b	1b	1b	1b		$47.74
6	899-485	MAINTENANCE-MANUAL	1a	1a	1a	1a		$47.60
7	899-484	MAINTENANCE-MANUAL	1b	1b	1b	1b		NLA
8	899-080	REPAIR-MANUAL			1a	1a		$173.76
9	899-081	REPAIR MANUAL			1b	1b		$173.76
10		REPAIR MANUAL	1b	1b				*
11	899-147	ILLUSTRATED PARTS CATALOG	1d	1d	1d	1d	1d	*
12	899-745	DOCUMENTATION CD-ROM	1e	1e	1e	1e		$41.19
13		OPERATOR'S MANUAL, ENGLISH	1bfg	1bfg	1bfg	1bfg	1bfg	*
14	897-732	CD-ROM, MANUAL, SOFTWARE	1	1	1	1	1	*
15	580-766	ROTAX STICKER KIT AIRCRAFT	1	1	1	1	1	$3.06

*** CALL FOR PRICING!**

a IN GERMAN LANGUAGE.
b IN ENGLISH LANGUAGE.
c PRELIMINARY VERSION.
d GERMAN AND ENGLISH COMBINED.
e CONCLUDES 1, 4, 6 AND 2, 5, 7, 11.
f NOT AVAILABLE AS SPARE PART. IS IN THE SCOPE OF SUPPLY OF THE FLYDAT ASSY. NEW.
g AVAILABLE AS SOFTWARE FILE ONLY



ENGINE TYPE 912 UL | 80 hp

DESCRIPTION

- 4-cylinder
- 4-stroke liquid/air-cooled engine with opposed cylinders
- dry sump forced lubrication with separate oil tank, automatic adjustment by hydraulic valve tappet
- 2 carburetors
- mechanical fuel pump
- dual electronic ignition
- electric starter
- propeller speed reduction unit

912UL..... **$16,710.00**

FACTS

This series was BRP's first Rotax engine dedicated for aircraft application only. The Rotax 912 series is well regarded for its reliability and efficiency and is primarily targeted as the entry level engine in the light aviation industry. The 80 hp version of the Rotax 912 series offers a time between overhauls of 2.000 hours and is available as non-certified (Rotax 912 UL) as well as certified version according to FAR 33 (Rotax 912 F) and JAR 22 (Rotax 912 A).

VERSION	PERFORMANCE			TORQUE			MAX RPM
	kW	ft. lb.	1/min	Nm	ft. lb.	1/min	1/min
912 UL[1]/F[2]/A[3]	59.6	80	5800	103	75.9	4800	5800

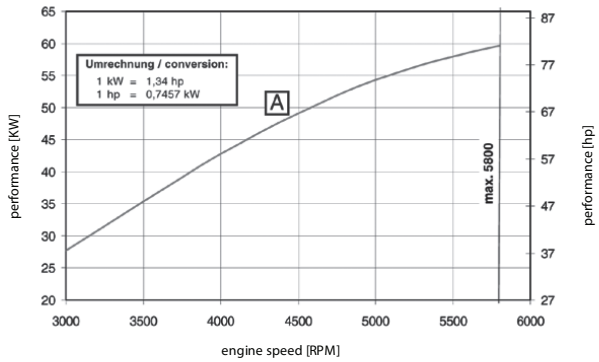
Limited for max. 5 min.

BORE		STROKE		DISPLACEMENT		FUEL
79.5 mm	3.13 in	61 mm	2.4 in	1211.2 cm³	73.91 cu.in.	min. MON 83 RON 91* min. AKI 87*

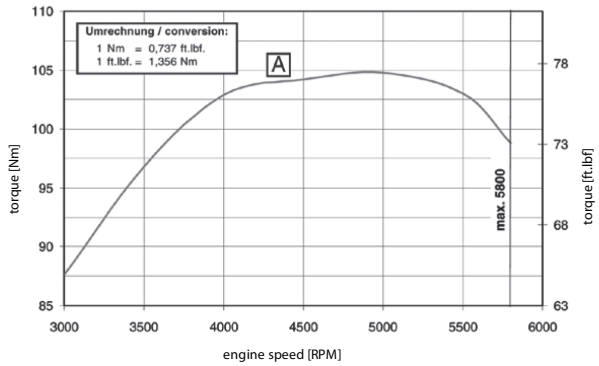
* leaded, unleaded, AVGAS 100LL or Ethanol 10

1) UL = non certified | 2) F = certified acc. to FAR 33 | 3) A = certified acc. to JAR 22

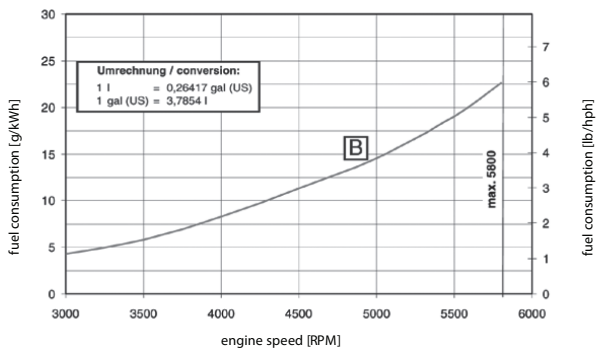
ENGINE PERFORMANCE



ENGINE TORQUE

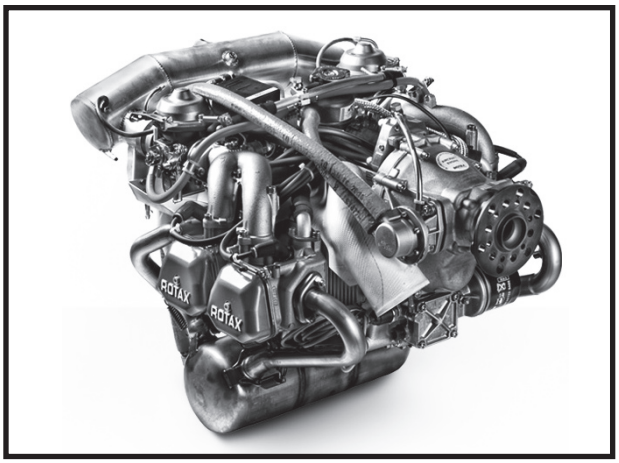


FUEL CONSUMPTION



PERFORMANCE GRAPHS

WEIGHT	kg	lb
engine with propeller speed reduction unit i = 2.27 (opt. i = 2.43)	55.4	122.0
overload clutch	1.7	3.7
exhaust system	4.0	8.8
external alternator	3.0	6.6
engine suspension frame	2.0	4.4
air guide hood	0.8	1.8
airbox	1.3	2.8



ENGINE TYPE 912 ULS I 100 hp

DESCRIPTION

- 4-cylinder
- 4-stroke liquid/air-cooled engine with opposed cylinders
- dry sump forced lubrication with separate oil tank, ... automatic adjustment by hydraulic valve tappet
- 2 carburetors
- mechanical fuel pump
- dual-electronic ignition
- electric starter
- propeller speed reduction unit
- air intake system

912ULS..... **$18,578.00**

FACTS

In comparison to the 80 hp version of the Rotax 912 series the 100 hp product line offers more power while keeping the weight. This engine series offers a time between overhauls of 2.000 hrs and the best power to weight ratio in its class - no surprise that this engine is the best selling 4-stroke engine. This series is available as non-certified (Rotax 912 ULS) and certified engine (Rotax 912 S) according to FAR33.

VERSION	PERFORMANCE			TORQUE			MAX RPM
	kW	ft. lb.	1/min	Nm	ft. lb.	1/min	1/min
912 ULS[1]/S[2]	73.5	100	5800	128	94	5100	5800

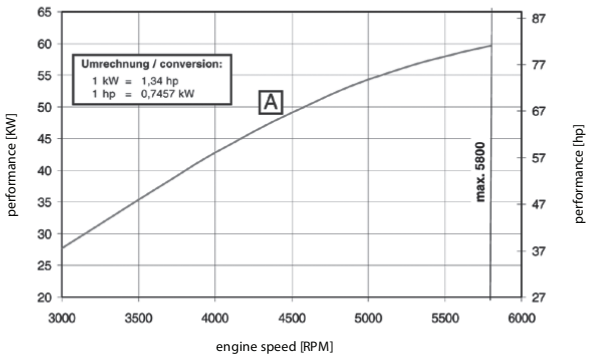
Limited for max. 5 min.

BORE		STROKE		DISPLACEMENT		FUEL
84 mm	3.31 in	61 mm	2.4 in	1352 cm³	82,6 cu. in.	min. MON 85 RON 95* min. AKI 91*

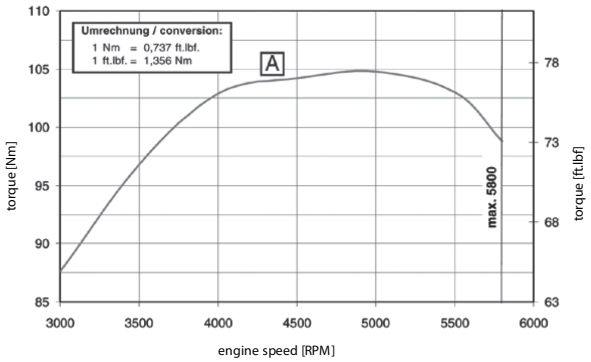
* leaded, unleaded, AVGAS 100LL or Ethanol 10

1) ULS = non certified | 2) S = certified acc. to FAR 33

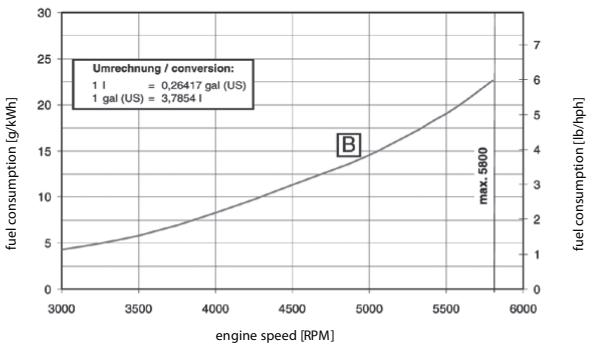
ENGINE PERFORMANCE



ENGINE TORQUE

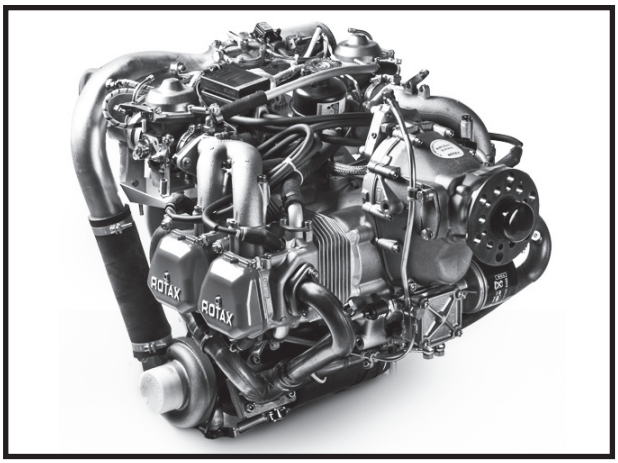


FUEL CONSUMPTION



PERFORMANCE GRAPHS

WEIGHT	kg	lb
engine with propeller speed reduction unit i = 2.43	56.6	124.5
overload clutch	1.7	3.7
exhaust system	4.0	8.8
external alternator	3.0	6.6
engine suspension frame	2.0	4.4
air guide hood	0.8	1.8
airbox	1.3	2.8



ENGINE TYPE 914 UL I 115 hp

DESCRIPTION

- 4-cylinder
- 4-stroke liquid/air-cooled engine with opposed cylinders
- with turbo charger
- with automatic waste gate control
- dry sump forced lubrication with separate oil tank
- automatic adjustment by hydraulic valve tappet
- 2 carburetors
- dual electronic ignition
- electric starter
- propeller speed reduction unit
- engine mount assembly
- air intake system
- exhaust system

914UL..... **$31,679.00**

FACTS

The turbo charged Rotax 914 series offers more performance at high altitudes while keeping weight at a low level. This series offers a time between overhauls of 2.000 hrs and is available as certified (Rotax 914 F) according to FAR 33 and JAR-E and non-certified version (Rotax 914 UL).

VERSION	PERFORMANCE			TORQUE			MAX RPM
	kW	ft. lb.	1/min	Nm	ft. lb.	1/min	1/min
914 UL[1]/S[2]	84.5	100	5800	144	106	4900	5800

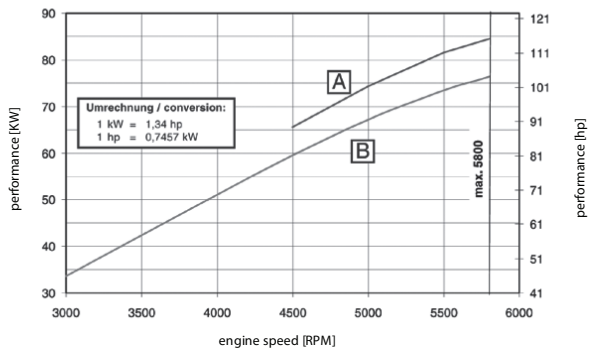
Limited for max. 5 min.

BORE		STROKE		DISPLACEMENT		FUEL
79.5 mm	3.31 in	61 mm	2.4 in	1211.2 cm³	73.91 cu. in.	min. MON 85 RON 95* min. AKI 91*

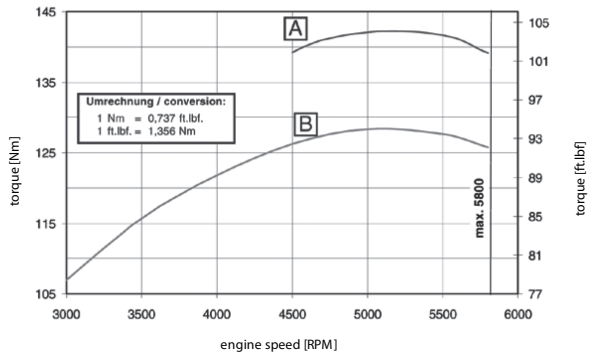
* leaded, unleaded, AVGAS 100LL or Ethanol 10

1) ULS = non certified | 2) S = certified acc. to FAR 33

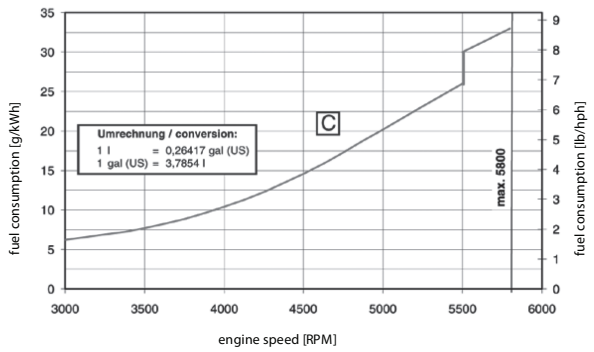
ENGINE PERFORMANCE



ENGINE TORQUE

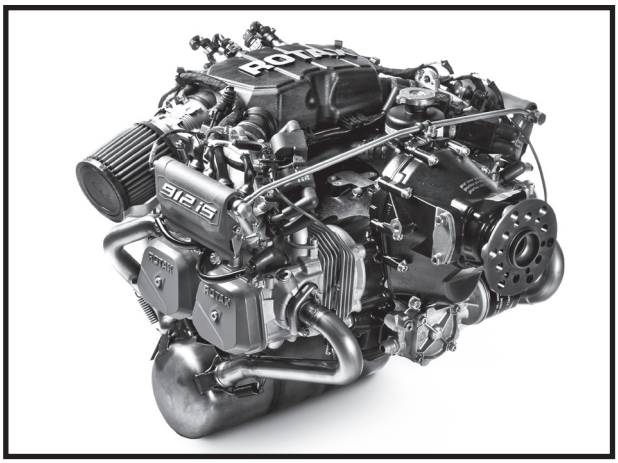


FUEL CONSUMPTION



PERFORMANCE GRAPHS

WEIGHT	kg	lb
engine with propeller speed reduction unit i = 2,43	64.0	140.8
exhaust system	4.0	8.8
engine suspension frame	2.0	3.7
overload clutch	1.7	3.7
external alternator	3.0	6.6
air guide hood	0.8	1.8



ENGINE TYPE 912 iS I 100 hp

DESCRIPTION

- 4-cylinder
- 4-stroke liquid-/air-cooled engine with opposed cylinders
- Dry sump forced lubrication with separate oil tank, automatic adjustment by hydraulic valve tappet
- Redundant electronic fuel injection
- Engine management system
- Electric starter
- Propeller speed reduction

912 iS..... **$24,958.00**

FACTS

Based on the proven concept of the Rotax 912 S/ULS engine the new 912 iS engine offers all well known advantages of the Rotax 4-stroke engine series complemented by additional features, e.g. engine management system. The complete package presents the latest technology in the aircraft engine industry and will enhance the flying and ownership experience of pilots.

The Rotax 912 iS engine offers a TBO (time between overhauls) of 2.000 hrs.

VERSION	PERFORMANCE			TORQUE			MAX RPM
	kW	ft. lb.	1/min	Nm	ft. lb.	1/min	1/min
912 iS1 / iSc2	73.5	100	5800	121	89	5800	5800

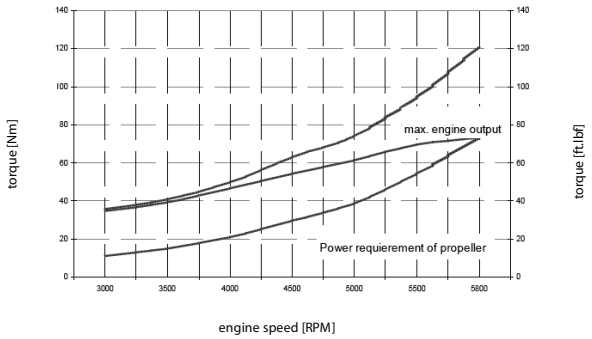
Limited for max. 5 min.

BORE		STROKE		DISPLACEMENT		FUEL
84.0 mm	3.31 in	61 mm	2.4 in	1352 cm³	82.6 cu. in.	min. MON 85 RON 95* min. AKI 91*

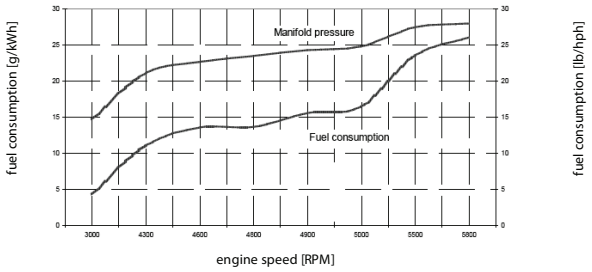
* leaded, unleaded, AVGAS 100LL or Ethanol 10

Providing engine speed over 5500 rpm is restricted to 5 minutes.

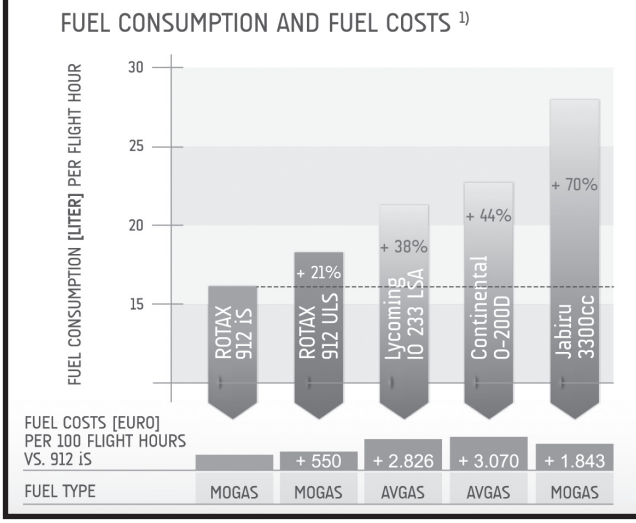
ENGINE TORQUE



FUEL CONSUMPTION



PERFORMANCE GRAPHS



WEIGHT	kg	lb
Engine with propeller speed reduction unit i = 2.43 with overload clutch	63.6	140.2
Exhaust system	4.3	9.5
Air guide hood	0.4	0.8
External alternator	3.0	6.6
Fuel pumps assy	1.6	3.5
Engine mount	2.0	4.4

- Generally the fasteners on a ROTAX® engine are tightened with a torque wrench. Please look up the proper torque value in the appropriate maintenance manual.
- Each screw connection which has to be secured additionally (i.e. LOCTITE) is marked with a drop and symbol that corresponds to a list on each illustration. See fig. 1
- If safety wire is required it will be listed as a part number in the illustration.
- If the quantity is in brackets it indicates that the part is not absolutely necessary but optional on the respective engine type. See fig. 2
- A small letter added to the number refers to information at the end of the section. See fig. 2
- No number in the column parts per assembly indicates that this part is not planned for the respective engine.

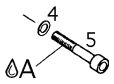
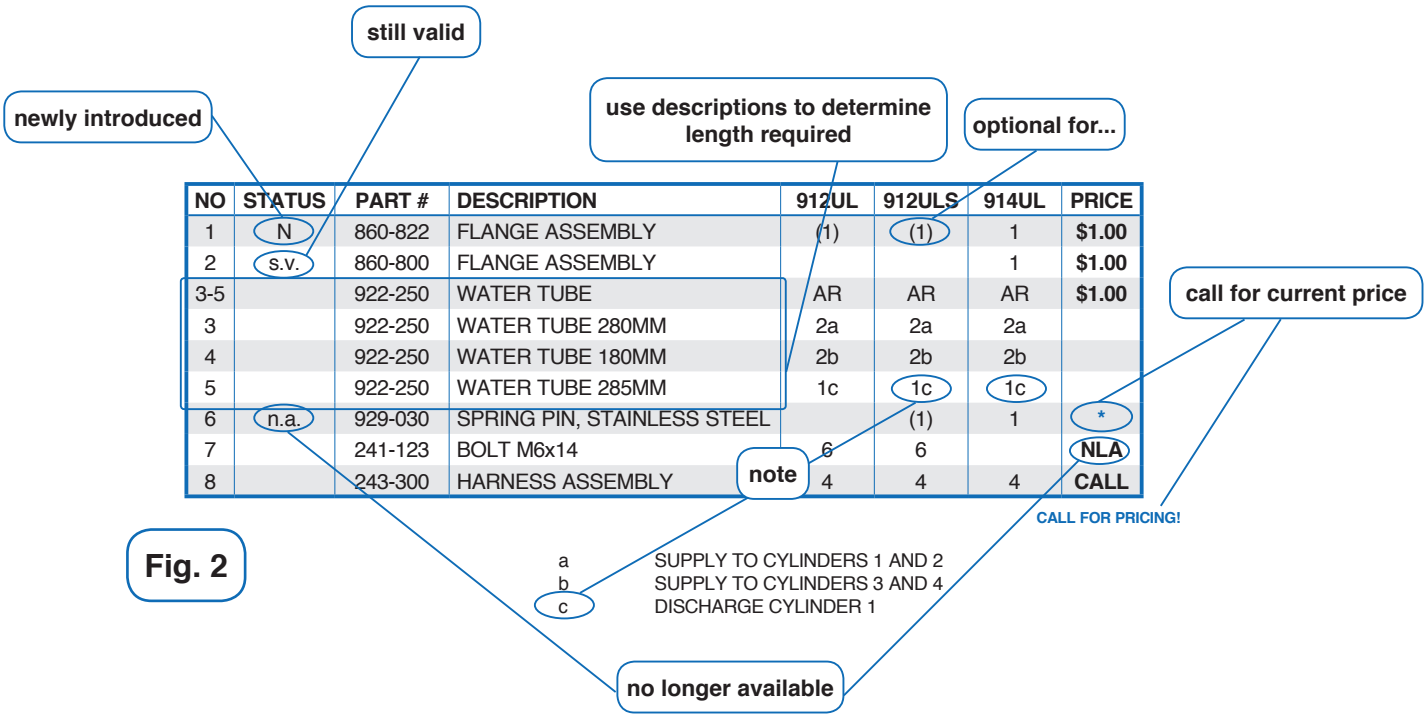


Fig. 1

Explanations of symbols and statements in part number charts:

N = Newly introduced part.
s.v. = Still valid. Part was replaced by compatible component and can not be supplied any longer by the producer. Existing stock may be used.
AR = As required. This generally refers to shims, hose, wires, and cable. Measure the amount you need before ordering. Many times there will be multiple listings of different lengths with the same part number. Use the individual part descriptions to determine the proper length needed.
n.a. or NLA = No longer available, no replacement from Rotax. Part is no longer available due to incompatibility to current production or unavailability of part.
CALL = Please call for price, **800-247-9653**.



NO	STATUS	PART #	DESCRIPTION	912UL	912ULS	914UL	PRICE
1	N	860-822	FLANGE ASSEMBLY	(1)	(1)	1	$1.00
2	s.v.	860-800	FLANGE ASSEMBLY			1	$1.00
3-5		922-250	WATER TUBE	AR	AR	AR	$1.00
3		922-250	WATER TUBE 280MM	2a	2a	2a	
4		922-250	WATER TUBE 180MM	2b	2b	2b	
5		922-250	WATER TUBE 285MM	1c	1c	1c	
6	n.a.	929-030	SPRING PIN, STAINLESS STEEL		(1)	1	*
7		241-123	BOLT M6x14	6	6		NLA
8		243-300	HARNESS ASSEMBLY	4	4	4	CALL

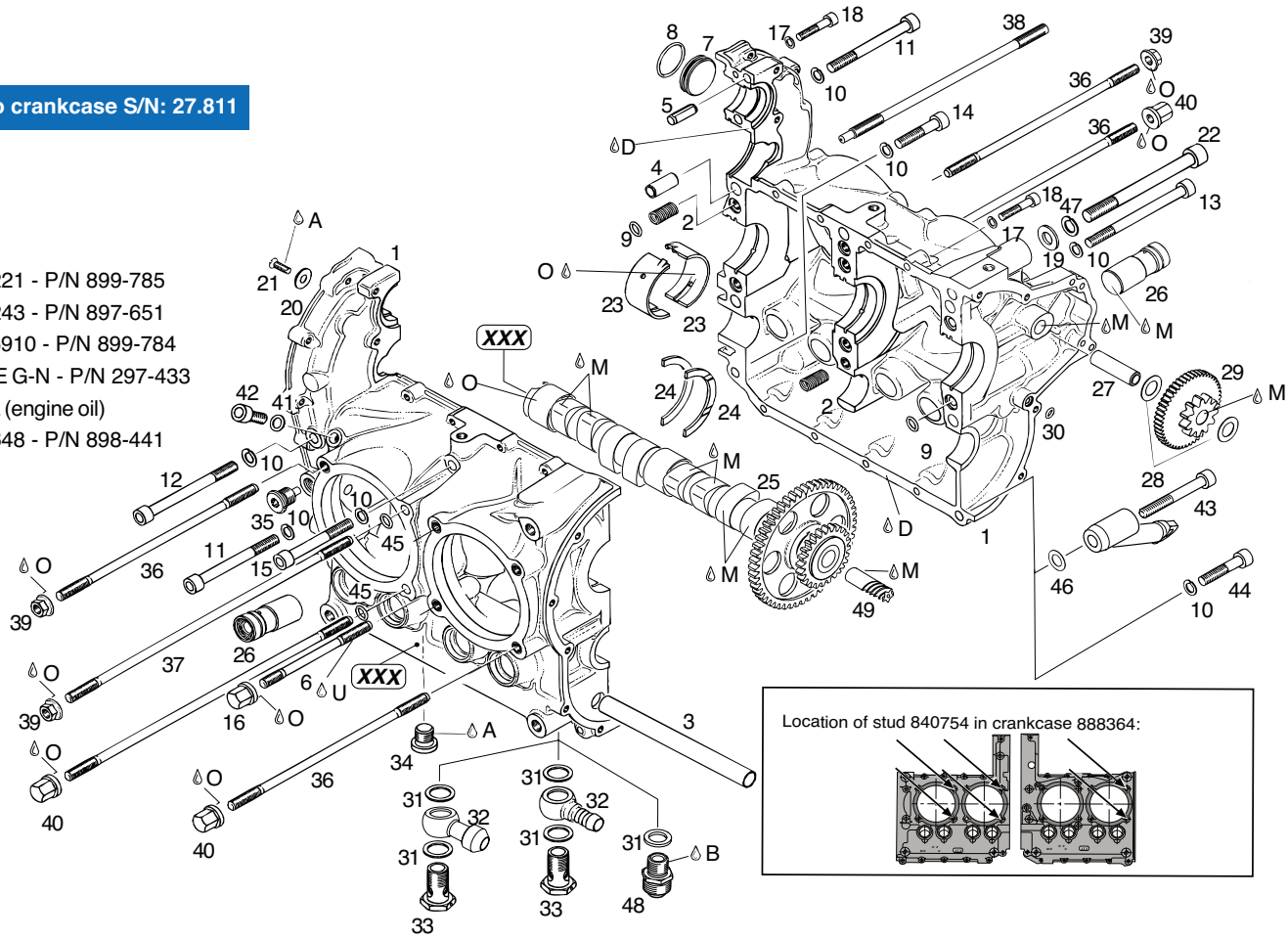
Fig. 2

THE ILLUSTRATIONS IN THIS PARTS CATALOG ARE DUPLICATED FROM THE CURRENT ROTAX© MANUALS AT THE TIME OF PRINTING AND ARE INTENDED FOR REFERENCE ONLY. THIS CATALOG IS NOT TO BE USED AS AN INSTRUCTION GUIDE FOR MAINTENANCE, ASSEMBLY, OR REPAIR TO ANY AIRCRAFT OR AIRCRAFT COMPONENT. PLEASE ENSURE YOU ARE USING THE MOST RECENT ROTAX© MANUALS BY VISITING OUR WEBSITE AT **www.800-airwolf.com/enginemanuals.html**.

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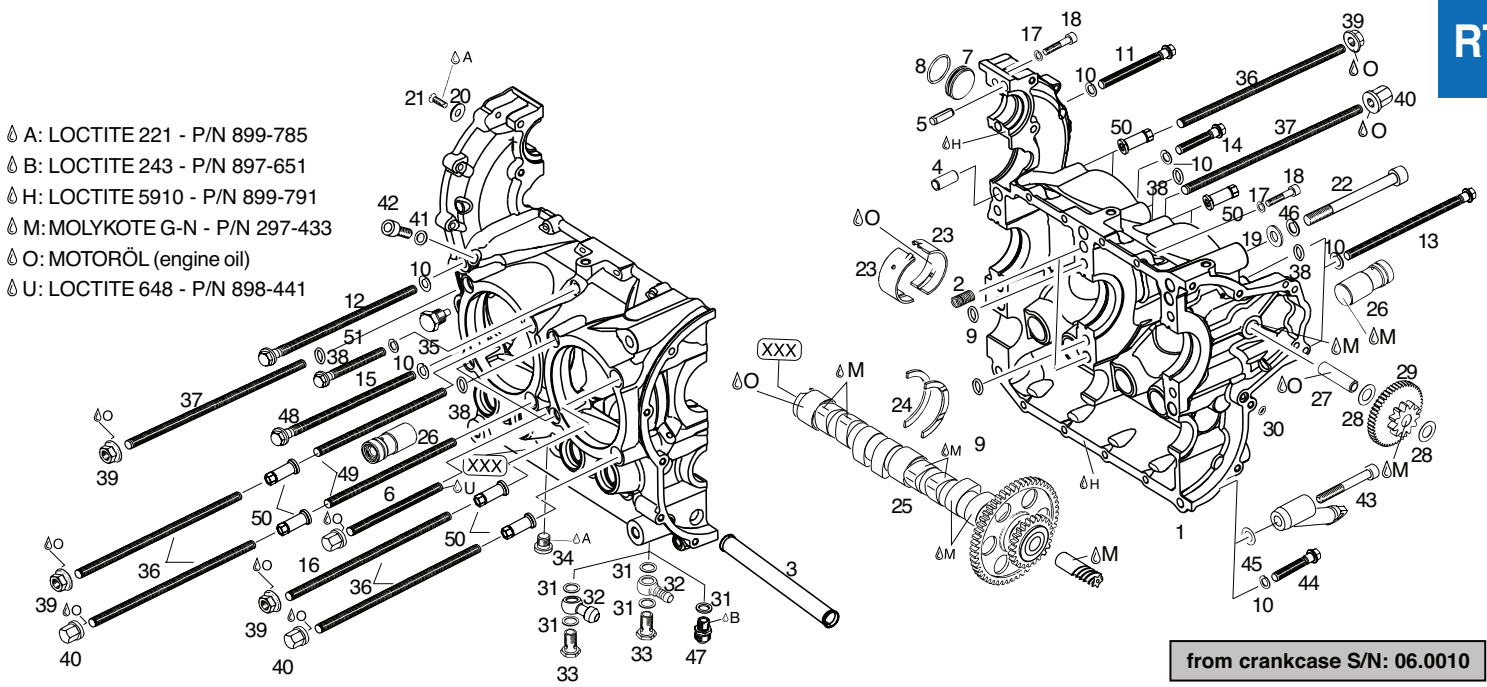
up to crankcase S/N: 27.811

- A: LOCTITE 221 - P/N 899-785
- B: LOCTITE 243 - P/N 897-651
- D: LOCTITE 5910 - P/N 899-784
- M: MOLYKOTE G-N - P/N 297-433
- O: MOTORÖL (engine oil)
- U: LOCTITE 648 - P/N 898-441



CRANKCASE, CAMSHAFT HYDRAULIC VALVE TAPPETS

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1	N.A.		CRANKCASE SET 1A	1a	1a	1a	NLA
2		842-650	HELI-COIL THREAD INSERT M8X20	8	8	8	$9.48
3		924-451	1 OIL TUBE	1	1	1	$14.57
4	S.V.	929-950	DOWEL 10.8X25	5	5	5	$9.08
4	N	929-951	DOWEL 10.8X25	5	5	5	$9.08
5		929-845	PIN D8X20	1	1	1	$7.35
6		840-191	STUD M8X105 / TORQUE: 8 NM / 70 IN.LB.	1f	1f	1f	$12.25
7		944-222	BLINDING SHIM	1b	1b	1b	$13.36
8		430-060	O-RING 26.7X1.8	1b	1b	1b	$6.49
9		850-902	O-RING 9X2	7	7	7	$9.53
10		945-752	LOCK WASHER A8	8	8	7	$0.18
11		440-217	2 ALLEN SCREW M8X80 / TORQUE: 30 NM / 22 FT.LB.	2	2	2	$2.68
12		640-932	ALLEN SCREW M8X90 / TORQUE: 30 NM / 22 FT.LB.	1	1	1	$2.92
13		440-427	ALLEN SCREW M8X100 / TORQUE: 30 NM / 22 FT.LB.	2	2	2	$3.12
14		640-942	ALLEN SCREW M8X45 / TORQUE: 30 NM / 22 FT.LB.	1f	1f	1f	$1.84
15		841-847	ALLEN SCREW M8X65 / TORQUE: 30 NM / 22 FT.LB.	1f	1f	1f	$2.39
16		842-471	COLLAR CAP NUT M8 / TORQUE: 30 NM / 22 FT.LB.	1	1	1	$7.11
17		945-751	LOCK WASHER A6	9	9	9	$0.16
18		840-887	9 ALLEN SCREW M6X30 / TORQUE: 12 NM / 105 IN.LB.	9f	9f	9f	$0.66
19		927-410	WASHER 10,5	1	1	1	$0.53
20		227-280	THRUST WASHER	1	1	1	$7.31
21		940-315	COUNTERSUNK SCREW M5X12	1	1	1	$0.53
22		941-487	ALLEN SCREW M10X110 / TORQUE: 35 NM / 26 FT.LB.	1	1	1	$6.31
22		941-557	ALLEN SCREW M10X150 / TORQUE: 40 NM / 30 FT.LB.	(1)	(1)		$9.83
23	N	933-327	PLAIN BEARING "C"	6cf	6cf	6cf	$60.34
23	N	933-871	PLAIN BEARING "D"	6df	6df	6df	$69.75
24		933-335	RING HALF	2	2	2	$30.43
25		837-196	CAM SHAFT 227 DEGR. ASSY.	1ak		1ak	$1,520.81
25		837-418	CAM SHAFT 230 DEGR. ASSY.		1ak		$1,520.81
26		881-832	HYDRAULIC VALVE TAPPET SET	1h	1h	1h	$49.90
27		837-102	IDLE GEAR SHAFT	1	1	1	$26.78
28		827-261	THRUST WASHER 12.5/21.5/1	2	2	2	$3.01
29		834-156	IDLE GEAR 50/11 T	1	1	1	$199.75
30		831-929	O-RING 5X2	1	1	1	$4.33
31		430-622	GASKET RING A 16X22	2	2	2	$2.39
32		956-315	HOSE NIPPLE 10	1	1	1	$35.37
32		956-050	HOSE NIPPLE 16	1o	1o	1o	$81.02
33		940-879	BANJO BOLT M16X1.5X28 / TORQUE: 30 NM / 22 FT.LB.	1	1	1	$23.24
34		240-234	PLUG SCREW M16X1.5 / TORQUE: 35 NM / 26 FT.LB.	1	1	1	$10.30
35		241-785	MAGNETIC DRAIN PLUG M12X1,5 / TORQUE: 25 NM / 222 IN.LB.	1	1	1	$53.99
36		840-752	STUD M8X201 / TORQUE: 3 NM / 26 IN.LB.	14e	14e	14e	$13.98
37		840-757	STUD M8X291 / TORQUE: 3 NM / 26 IN.LB.	2	2	2	$17.14
38		840-754	STUD M8X210 / TORQUE: 3 NM / 26 IN.LB.	6e	6e	6e	$20.78
39		842-610	HEX. NUT M8 / TORQUE: 22 NM / 195 IN.LB.	8	8	8	$4.15
40		842-471	COLLAR CAP NUT M8 / TORQUE: 22 NM / 195 IN.LB.	8	8	8	$7.11
41		950-141	GASKET RING A 8X13	1	1	1	$1.45
42		240-071	ALLEN SCREW M8X20 / TORQUE: 15 NM / 135 IN.LB.	1	1	1	$1.16
43		440-107	ALLEN SCREW M8X50 / TORQUE: 30 NM / 22 FT.LB.			1	$1.89
44		640-942	ALLEN SCREW M8X45 / TORQUE: 30 NM / 22 FT.LB.	1	1		$1.84
45		830-415	2G O-RING 7X2	2g	2	2g	$6.38
46		926-400	WASHER 8.4/15/0.5			AR	$3.01
46		926-401	WASHER 8.4/15/1			AR	$3.20
46		926-402	WASHER 8.4/15/1.5			AR	$3.43
47		945-753	LOCK WASHER A10	1	1	1	$0.27
48		956-651	ADAPTOR 3/4-16 UNF/ M16 X 1.5 / TORQUE: 25 NM / 19 FT.LB.	1	1	1	$69.12
49		834-181	WORM GEAR 5T	1j	1j	1j	$116.18



from crankcase S/N: 06.0010

CRANKCASE

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		892-654	CRANKCASE SET	1m	1m	1m	$4,506.35
2		842-650	HELI-COIL THREAD INSERT M8X20	2	2	2	$9.48
3		924-451	OIL TUBE	1	1	1	$14.57
4		929-950	DOWEL 10.8X25	5	5	5	$9.08
4		929-951	DOWEL 10.8X25	5	5	5	$9.08
5		929-845	PIN D8X20	1	1	1	$7.35
6		840-191	STUD M8X105 / TORQUE: 8 NM / 70 IN.LB.	1	1	1	$12.25
7		944-222	1 BLINDING SHIM	1b	1b	1b	$13.36
8		430-060	O-RING 26.7X1.8	1b	1b	1b	$6.49
9		850-902	O-RING 9X2	2l	2l	2l	$9.53
10		944-131	WASHER 8	8f	8f	7f	*
11		840-061	ALLEN SCREW M8X80	2f	2f	2f	$8.69
12		840-091	HEX. COLLAR SCREW M8X140 / TORQUE: 15 NM +270° / 135 IN.LB. +270°	1f	1f	1f	$5.22
13		840-101	HEX. COLLAR SCREW M8X150	2f	2f	2f	$1.29
14		940-071	HEX. SCREW M8X45 / TORQUE: 30 NM / 22 FT.LB.	1f	1f	1f	$0.94
15		440-406	HEX. COLLAR SCREW M8X65	1f	1f	1f	$2.38
16		842-471	COLLAR CAP NUT M8	1f	1f	1f	$7.11
17		945-751	LOCK WASHER A6	9	9	9	$0.16
18		840-887	ALLEN SCREW M6X30 / TORQUE: 12 NM / 105 IN.LB.	9f	9f	9f	$0.66
19		927-410	WASHER 10.5	1	1	1	$0.53
20		227-280	THRUST WASHER	1	1	1	$7.31
21		940-315	COUNTERSUNK SCREW M5X12	1	1	1	$0.53
22		941-487	ALLEN SCREW M10X110 / TORQUE: 35 NM / 26 FT.LB.	1	1	1	$6.31
22		941-557	ALLEN SCREW M10X150 / TORQUE: 40 NM / 30 FT.LB.	(1)	(1)		$9.83
23	N	933-327	PLAIN BEARING "C"	6cf	6cf	6cf	$60.34
23	N	933-871	PLAIN BEARING "D"	6df	6df	6df	$69.75
24		933-330	RING HALF	2	2	2	$30.43
25		837-196	CAM SHAFT 227 DEGR. ASSY.	1ak		1ak	$1,520.81
25		837-418	CAM SHAFT 230 DEGR. ASSY.		1ak		$1,520.81
26		881-832	HYDRAULIC VALVE TAPPET SET	1h	1h	1h	$49.90
27		837-102	IDLE GEAR SHAFT	1	1	1	$26.78
28		827-261	THRUST WASHER 12.5/21.5/1	2	2	2	$3.01
29		834-156	IDLE GEAR 50/11 T,	1	1	1	$199.75
30		831-929	O-RING 5X2	1	1	1	$4.33
31		430-622	GASKET RING A 16X22	2	2	2	$2.39
32		956-315	HOSE NIPPLE 10	1	1	1	$35.37
32		956-050	HOSE NIPPLE 16	1o	1o	1o	$81.02
33		940-879	BANJO BOLT M16X1.5X28 / TORQUE: 30 NM / 22 FT.LB.	1	1	1	$23.24
34		240-234	PLUG SCREW M16X1.5 / TORQUE: 35 NM / 26 FT.LB.	1	1	1	$10.30
35		241-785	MAGNETIC DRAIN PLUG M12X1,5 / TORQUE: 25 NM / 222 IN.LB.	1	1	1	$53.99
36		840-141	STUD M8X186	8	8	8	$8.66
37		840-171	STUD M8X200	8	8	8	$8.66
38		431-570	O-RING 10.82X1.78	ARm	ARm	ARm	$0.63
38		431-411	GASKET	ARm	ARm	ARm	$5.98
39		842-610	HEX. NUT M8 / TORQUE: 10 NM +180° / 90 IN.LB +180°	8	8	8	$4.15
40		842-471	COLLAR CAP NUT M8 / TORQUE: 10 NM +180° /90 IN.LB +180°	8	8	8	$7.11
41		950-141	GASKET RING A 8X13	1	1	1	$1.45
42		240-071	ALLEN SCREW M8X20 / TORQUE: 15 NM / 135 IN.LB.	1	1	1	$1.16
43		440-107	ALLEN SCREW M8X50 / TORQUE: 30 NM / 22 FT.LB.			1F	$1.89
44		940-071	HEX. SCREW M8X45 / TORQUE: 30 NM / 22 FT.LB.	1	1		$0.94
45		926-400	WASHER 8.4/15/0.5			AR	$3.01
45		926-401	WASHER 8.4/15/1			AR	$3.20
45		926-402	WASHER 8.4/15/1.5			AR	$3.43
46		945-753	LOCK WASHER A10	1	1	1	$0.27
47		956-651	ADAPTOR 3/4-16 UNF/ M16 X 1.5 / TORQUE: 25 NM / 19 FT.LB.	1	1	1	$69.12
48		440-686	HEX. COLLAR SCREW M8X130 / TORQUE: 15 NM +270° / 135 IN.LB. +270°	1	1	1	$1.18
49		840-131	STUD M8X138	2f	2f	2f	$1.52
50		929-116	THREAD SLEEVE M8 / TORQUE: 15 NM +270° / 135 IN.LB. +270°	8f	8f	8f	$35.09
51		834-181	WORM GEAR 5 T	1j	1j	1j	$116.18
52		881-120	SCREW SET-CRANKCASE	1f	1f	1f	$270.18

*** CALL FOR PRICING!**

a MARKED WITH S/N
b ONLY FOR MODEL 2 AND 4
c TOLERANCE GROUP „C" 1,820 - 1,829 MM
d TOLERANCE GROUP „D" 1,830 - 1,839 MM
e DEPENDING ON CONFIGURATION USE 14 STUDS PART NO. 840752 M8X201 OR 8 STUDS M8X201 AND 6 STUDS PART NO. 840754 M8X210.
f SEE OVERHAUL MANUAL OF THE RESPECTIVE ENGINE TYPE, CURRENT ISSUE.
g ONLY FOR USE WITH NEW CYLINDERS 913221WITH COUNTERSUNK. WITH THE CYLINDER 913225 THE COUNTERSUNK WAS ALREADY INTRODUCED STARTING FROM BEGINNING OF THE PRODUCTION.
h HYDRO VALVE TAPPET PREFILLED.
j FOR REV COUNTER-HOUR-METER. SEE HEAVY MAINTENANCE MANUAL OF THE RESPECTIVE ENGINE TYPE, CURRENT ISSUE.
k WITHOUT WORM GEAR
l WITHOUT O-RING FROM S/N 06.0010 TO 07.5000 2X O-RING STARTING WITH S/N 07.5001
m FOLLOWING SERVICE INSTRUCTION HAS TO BE NOTIZED: SI-914-021
o FOLLOWING SERVICE INSTRUCTION HAS TO BE NOTIZED: SI-914-005

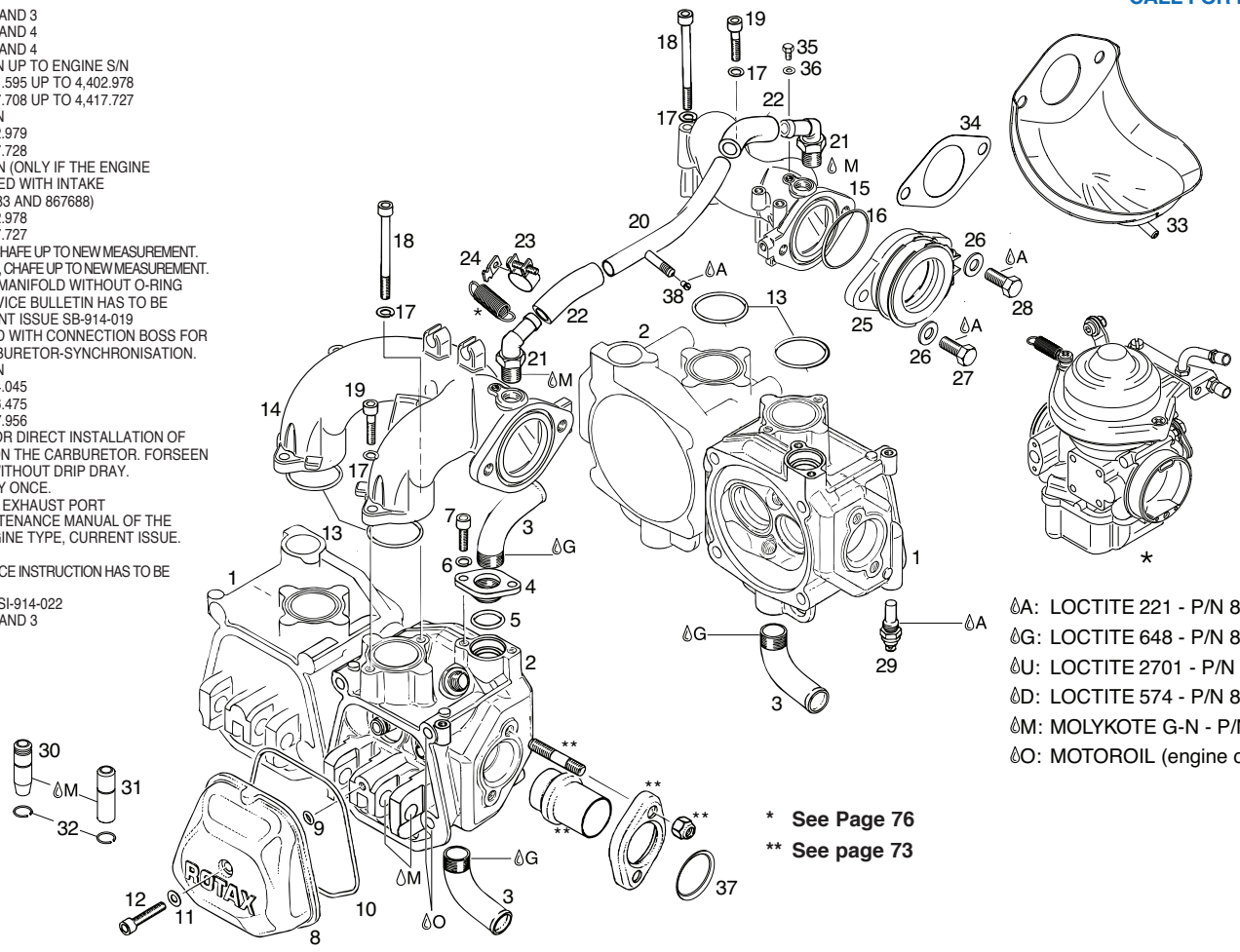
RTX

CYLINDER HEAD, VALVE COVER, INTAKE MANIFOLD

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		623-682	CYLINDER HEAD 2/3 ASSY.	2a		2a	$1,555.86
1		623-687	CYLINDER HEAD 2/3 ASSY.		2a		$1,718.66
2		623-692	CYLINDER HEAD 1/4 ASSY.	2b		2b	$1,558.40
2		623-697	CYLINDER HEAD 1/4 ASSY.		2b		$1,718.69
3		922-230	BENT SOCKET 80 DEGREES	8	8	8	$17.01
3		922-232	BENT SOCKET 45 DEGREES	(8)	(8)	(8)	$17.50
4		922-303	FLANGE	4	4	4	$53.83
5		950-180	O-RING 19X2	4	4	4	$12.85
6		945-751	LOCK WASHER A6	8	8	8	$0.16
7		241-930	ALLEN SCREW M6X20	8	8	8	$0.53
8		612-181	VALVE COVER BLACK	4			$190.72
8		612-182	VALVE COVER RED			4	$190.71
8		612-183	VALVE COVER GREEN		4		$190.72
8		612-180	VALVE COVER BLUE		4		$176.08
9		430-205	O-RING 6.4X1.8	4	4	4	$5.01
10		250-285	O-RING 105X2.5	4	4	4	$28.00
11		927-941	WASHER 6.0/12/1	4	4	4	$0.66
12		840-887	ALLEN SCREW M6X30	4	4	4	$0.66
13		230-910	O-RING 34X2	4	4	4	$11.37
14		867-932	INTAKE MANIFOLD	1ck	1ck	1ck	$423.01
15		867-935	INTAKE MANIFOLD	1sk	1sk	1sk	*
16		230-290	O-RING 44X2	2d		2d	$7.88
16		230-300	O-RING 47X2	2e	2	2e	$6.31
17		945-751	LOCK WASHER A6	8	8	8	$0.16
18		241-871	ALLEN SCREW M6X70	4f		4f	$1.81
18		241-871	ALLEN SCREW M6X70	4f		4f	$1.81
18		240-531	ALLEN SCREW M6X75	4e	4	4e	$1.81
19		840-861	ALLEN SCREW M6X25	4	4	4	$1.05
20		924-541	COMPENSATING TUBE ASSY.	1p	1p	1p	$110.84
21		922-242	ANGULAR TUBE 1/4-18NPT	2	2	2	$16.97
22		956-143	TUBE 66 MM	2p	2p	2p	$6.66
22		956-390	TUBE 81 MM	1p	1p	1p	*
22		956-140	TUBE	2o	2o	2o	$67.41
23		853-515	CLAMP 16/9	2	2	2	$4.81
24		953-400	BRACKET	2	2	2	$4.33
25		267-789	RUBBER FLANGE ASSY. / TORQUE: 2,5 NM / 22 IN.LB.	2j	2j	2j	$102.33
26		250-311	WASHER 8.4	4	4	4	$0.39
27		240-276	HEX. SCREW M8X25 / TORQUE: 15 NM / 135 IN.LB.	2p	2p	4	$1.18
28		940-481	HEX. SCREW M8X30 / TORQUE: 15 NM / 135 IN.LB.	2p	2p		$1.34
29		965-531	TEMPERATURE SENSOR / TORQUE: 7 NM / 62 IN.LB.	2	2	2	$186.29
30		253-114	INLET VALVE GUIDE	4g	4g	4g	$26.00
31		854-223	VALVE GUIDE	4h	4h	4h	$85.40
32		245-440	RETAINING RING A12	8m	8m	8m	$0.53
33		874-300	DRIP TRAY	(2l)	(2l)	2	$99.23
34		931-640	GASKET	2i		2i	$13.29
35		641-071	HEX-SCREW M6X6	2	2	2	$1.36
36		230-415	GASKET A 6X10	2	2	2	$1.34
37		931-920	GASKET RING	ARn	NBn	NBn	$60.93
38		940-980	SCREW M3.5	1p	1p	1p	*

*** CALL FOR PRICING!**

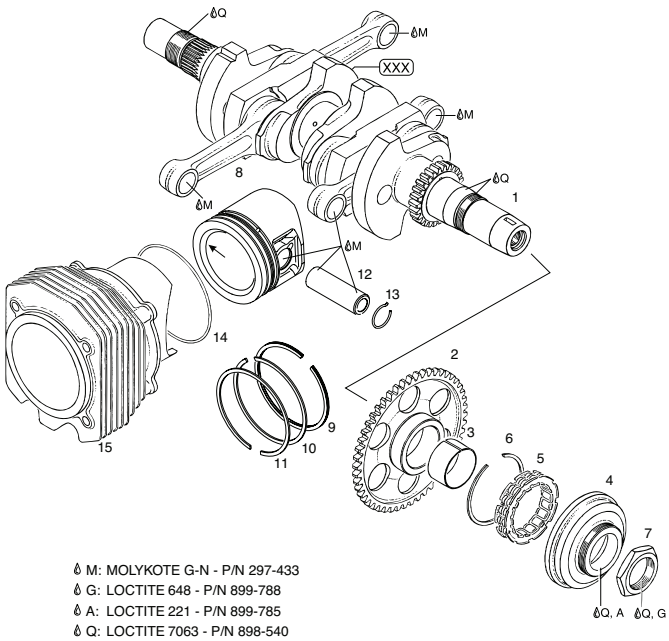
a FOR CYLINDER 2 AND 3
b FOR CYLINDER 1 AND 4
c FOR CYLINDER 2 AND 4
d FROM ENGINE S/N UP TO ENGINE S/N
912 UL: 4,401.595 UP TO 4,402.978
914 UL: 4,417.708 UP TO 4,417.727
e FROM ENGINE S/N
912 UL: 4,402.979
914 UL: 4,417.728
f UP TO ENGINE S/N (ONLY IF THE ENGINE WAS NOT REFITTED WITH INTAKE MANIFOLDS 867683 AND 867688)
912 UL: 4,402.978
914 UL: 4,417.727
g FOR INLET VALVE, CHAFE UP TO NEW MEASUREMENT.
h FOR OUTLET VALVE, CHAFE UP TO NEW MEASUREMENT.
i ONLY AT INTAKE MANIFOLD WITHOUT O-RING
j FOLLOWING SERVICE BULLETIN HAS TO BE NOTIZED: CURRENT ISSUE SB-914-019
k INTAKE MANIFOLD WITH CONNECTION BOSS FOR PNEUMATIC CARBURETOR-SYNCHRONISATION. FROM ENGINE S/N
912 UL: 4,404.045
912 ULS: 4,426.475
914 UL: 4,417.956
l NOT SUITABLE FOR DIRECT INSTALLATION OF THE AIR FILTER ON THE CARBURETOR. FORSEEN FOR AIRBOXES WITHOUT DRIP DRAY.
m NOTICE USE ONLY ONCE.
n FOR REWORK OF EXHAUST PORT SEE HEAVY MAINTENANCE MANUAL OF THE RESPECTIVE ENGINE TYPE, CURRENT ISSUE.
o IN A ROLL
p FOLLOWING SERVICE INSTRUCTION HAS TO BE NOTICED: CURRENT ISSUE SI-914-022
q FOR CYLINDER 1 AND 3



ΔA: LOCTITE 221 - P/N 899-785
ΔG: LOCTITE 648 - P/N 899-788
ΔU: LOCTITE 2701 - P/N 898-441
ΔD: LOCTITE 574 - P/N 899-784
ΔM: MOLYKOTE G-N - P/N 297-433
ΔO: MOTOROIL (engine oil)

* See Page 76
** See page 73

CRANKSHAFT, PISTON, CYLINDER, SPRAG CLUTCH:



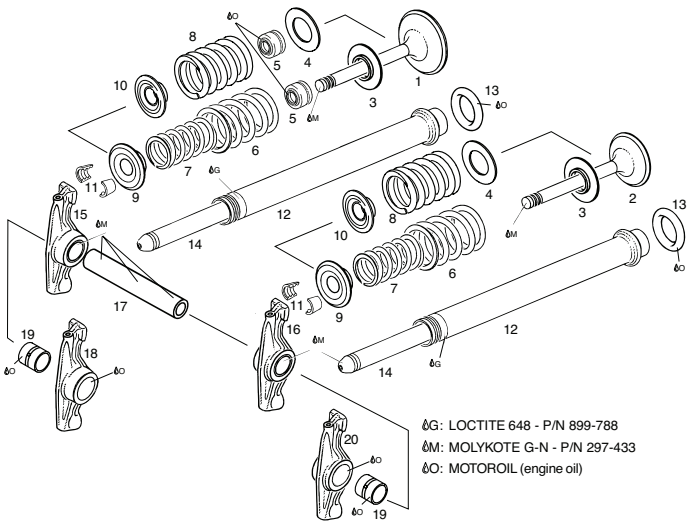
◊ M: MOLYKOTE G-N - P/N 297-433
◊ G: LOCTITE 648 - P/N 899-788
◊ A: LOCTITE 221 - P/N 899-785
◊ Q: LOCTITE 7063 - P/N 898-540

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		996-583	CRANKSHAFT SET	1aj		1aj	$4,479.57
1		888-164	CRANKSHAFT SET	1hj	1hj	1hj	$4,479.57
2		834-120	FREE WHEEL GEAR 50 T.	1	1	1	$368.70
3		933-311	BEARING BUSHING	1	1	1	$77.98
4		852-405	SPRAG CLUTCH HOUSING	1k	1k	1k	$258.18
5		958-856	SPRAG CLUTCH 51.710X68.377X13	1	1	1	$367.75
6		845-425	CIRCLIP 70	1	1	1	$7.26
7		842-574	HEX. NUT M34X1,5 LH / TORQUE: 120 NM / 88 FT.LB.	1	1	1	$68.21
8-11		996-549	PISTON ASSY. 79.50/79.51 MM	4b		4b	$306.02
8-11		888-381	PISTON ASSY. 84/84.01 MM		4c		$363.40
9		215-400	OIL SCRAPER RING 79.5 MM	4		4	$48.05
9		815-230	OIL SCRAPER RING		4		$64.35
10		215-420	TAPERED COMPRESSION RING 79.5 MM	4		4	$29.71
10		815-280	TAPERED COMPRESSION RING		4g		$45.31
11		215-590	RECTANGULAR RING 79.5/72.9X1.5	4		4	$56.69
11		815-251	RECTANGULAR RING 84/77X1.5		4g		$78.84
12		916-420	PISTON PIN 20X12X56			4j	$132.69
12		916-356	PISTON PIN 20X12X55.3	4j	4j	4j	$77.40
13		845-106	MONOHOOK CIRCLIP 20	8d	8d	8d	$2.49
14		250-510	O-RING 87X2	4	4	4	$25.25
15		913-222	CYLINDER	4ei		4ei	$483.23
15		913-226	CYLINDER		4fi		$507.63

a STROKE 61 MM, MARKED WITH S/N.
USE ONLY UP TO FOLLOWING ENGINE S/N:
912 UL: 4,404.342
914 UL: 4,417.790
b RED 79.50 MM, GREEN 79.51 MM, EK 2236
c RED 84.00 MM, GREEN 84.00 MM, EK 2200/4;
d CAUTION: USE ONLY ONCE;
e A 79.50 - 79.512, B 79.513 - 79.524
f A 84.00 - 84.012, B 84.012- 84.024
g AT 912 ULS THE COMPLETE PISTON WITH RINGS HAS TO BE EXCHANGED UP TO S/N 4,425.123.
h STROKE 61 MM, MARKED WITH S/N.
INTRODUCED AS PER ENGINE S/N AS FOLLOWS:
912 UL: 4,404.343
912 ULS: STARTING WITH SERIAL PRODUCTION
914 UL: 4,417.791
i WITH COUNTERSUNK FOR O-RING 830415.
INTRODUCED AS PER ENGINE S/N AS FOLLOWS:
912 UL: 4,403.679
912 ULS: STARTING WITH SERIAL PRODUCTION
914 UL: 4,417.868
j FOLLOWING SERVICE LETTER HAS TO BE NOTIZED CURRENT ISSUE SL-914-002
k WITH EXPANDED SPACE OF SPRAG CLUTCH
INTRODUCED AS PER ENGINE S/N AS FOLLOWS:
912 UL: 4,409.089
912 ULS: 5,650.835

VALVE TRAIN

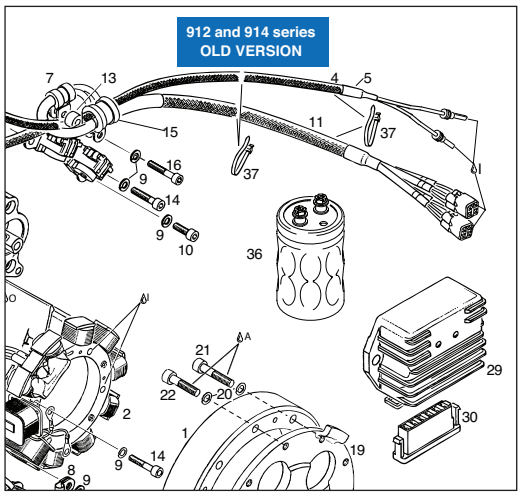
NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		854-106	INTAKE VALVE 38 MM	4	4	4	$179.49
2		854-116	EXHAUST VALVE 32 MM	4	4	4	$289.54
3	N.A.		VALVE SPRING SUPPORT	8a		8a	NLA
4		926-210	SHIM 16/27.4/1	8b	8	8b	$3.54
5		230-810	VALVE STEM SEAL	4	4	4	$9.58
6	N.A.		VALVE SPRING 37 MM	8a		8a	NLA
7	N.A.		VALVE SPRING 35 MM	8a		8a	NLA
8		838-155	VALVE SPRING	8b	8	8b	$27.25
9	N.A.		VALVE SPRING RETAINER	8a		8a	NLA
10		854-186	VALVE SPRING RETAINER	8	8	8	$20.83
11		253-090	VALVE COTTER	16	16	16	$3.54
12		924-440	OIL RETURN TUBE	8	8	8	$37.71
13		850-930	O-RING 16X5	8	8	8	$8.38
14		854-861	VALVE PUSH-ROD ASSY.	8	8	8	$166.61
15	N.A.	854-385	ROCKER ARM LEFT ASSY.	4c	4c	4c	$287.56
16	N.A	854-395	ROCKER ARM RIGHT ASSY.	4c	4c	4c	$287.56
17	S.V.	854-193	ROCKER ARM SHAFT	4	4	4	$38.88
17		854-193	ROCKER ARM SHAFT	4	4	4	$38.88
17		854-197	ROCKER ARM SHAFT	(4)d	(4)d	(4)d	$70.88
18		854-383	ROCKER ARM LEFT ASSY.	4e	4e	4e	$287.56
19		933-396	BUSHING VESPEL	8e	8e	8e	$49.65
19		933-397	BUSHING VESPEL	(8)d	(8)d	(8)d	NLA
20		854-393	ROCKER ARM RIGHT ASSY.	4e	4e	4e	$287.56

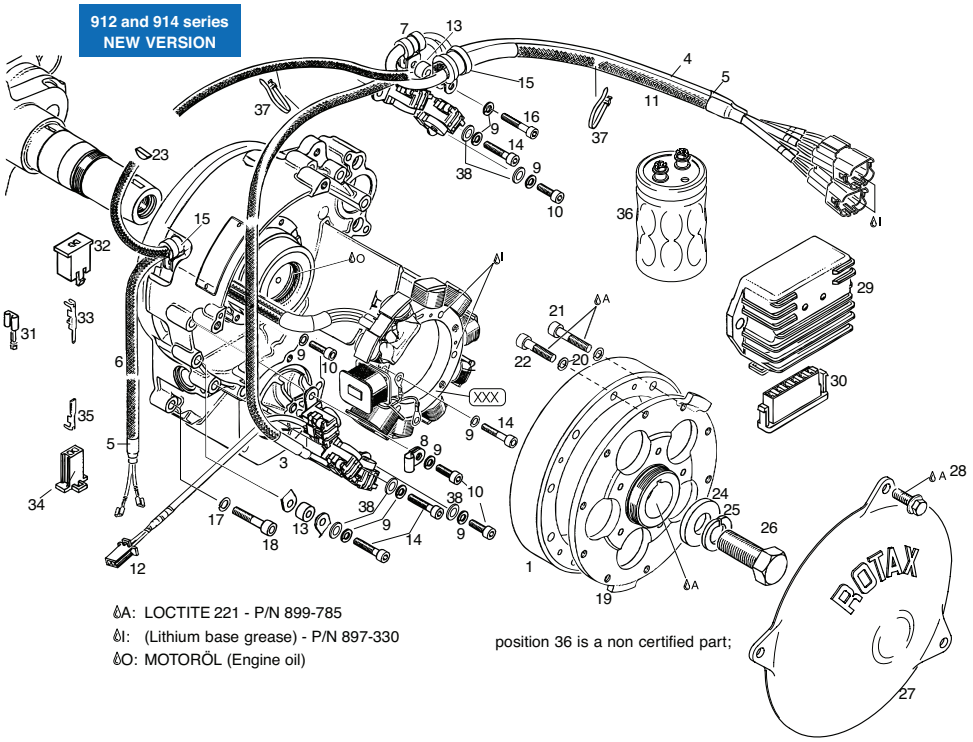


◊G: LOCTITE 648 - P/N 899-788
◊M: MOLYKOTE G-N - P/N 297-433
◊O: MOTOROIL (engine oil)

a UP TO ENGINE S/N
912 UL: 4,401.879
914 UL: 4,417.597
SINGLE VALVE SPRINGS AND DOUBLE VALVE SPRINGS IF REQUIRED ARE ALLOWED TO BE MOUNTED IN ONE ENGINE;
b FROM ENGINE S/N
912 UL: 4,401.880
914 UL: 4,417.598
c WITH SINTERED BRONZE BUSHING
d OVERSIZE + 0,2 MMB
e ROCKER ARM VERSION WITH VESPEL BUSHING FROM ENGINE S/N
912 UL: 4,404.621
912 ULS: 4,427.487
914 UL: 4,418.104

RTX





ΔA: LOCTITE 221 - P/N 899-785
ΔI: (Lithium base grease) - P/N 897-330
ΔO: MOTORÖL (Engine oil)

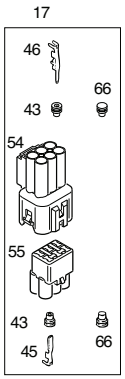
position 36 is a non certified part;

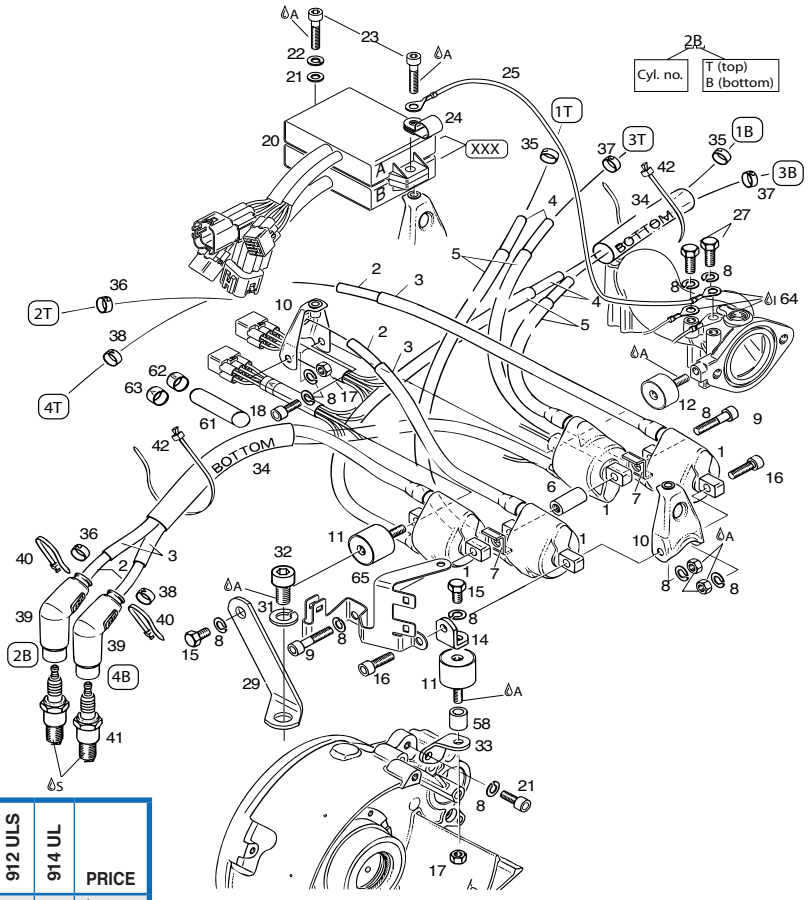
MAGNETO- GENERATOR, PICK UP, RECTIFIER REGULATOR

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE	NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		965-192	MAGNETO RING	1	1	1	**$876.82**	19		966-872	FLY WHEEL HUB	1b	1b		**$350.47**
2-6		888-671	STATOR ASSY.		1		**$1,376.50**	19		966-877	FLY WHEEL HUB				**$481.26**
2-6		888-675	STATOR ASSY.	1a		1a	**$1,376.50**	20		845-381	LOCK WASHER A6	10	10	10	**$0.53**
2-6		891-095	STATOR ASSY.	1c	1c	1c	**$1,105.82**	21		840-883	ALLEN SCREW M6X30	5	5	5	**$1.39**
3		860-531	SHRINK HOSE 25 MM	2	2	2	**$3.01**	22		840-863	ALLEN SCREW M6X25	5	5	5	**$1.36**
4		965-623	SCREENING METAL BRAID 460 MM	1	1	1	**$55.47**	23		246-570	WOODRUFF KEY 4X5	1	1	1	**$2.52**
5		860-533	SHRINK TUBE 40 MM	2	2	2	**$4.49**	24		944-072	WASHER 17/36/5	1	1	1	**$23.80**
6		965-626	SCREENING METAL BRAID 640 MM	1	1	1	**$69.43**	25		945-768	LOCK WASHER 16	1	1	1	**$1.34**
7		851-111	CABLE CLAMP 8/M5	1	1	1	**$11.30**	26		841-601	HEX. SCREW M16X1.5X40 / TORQUE: 33.2 FT.LB. + 180°	1	1	1	**$11.80**
8		851-117	CABLE CLAMP 7/M5	1	1	1	**$5.44**	27		810-980	IGNITION COVER	(1)	1	1	**$75.81**
9		945-750	LOCK WASHER A5	12	12	12	**$0.18**	28		640-171	HEX.SCREW M6X16 / TORQUE: 5 NM / 44 IN.LB.	(3)	3	3	**$0.81**
10		840-511	ALLEN SCREW M5X16 / TORQUE: 5 NM / 44 IN.LB.	4	4	4	**$0.48**	29-30		965-349	RECTIFIER REGULATOR	1	1	1	**$170.45**
11		965-176	TRIGGER COIL KIT	1e	1e	1e	**$965.81**	30		965-335	CONNECTOR HOUSING	1	1	1	**$23.23**
11		965-179	TRIGGER COIL ASSY.	1d	1d	1d	**$761.41**	31		864-011	FASTON CONNECTOR 6.3X0.8	AR	AR	AR	**$1.34**
12		264-087	TRIGGER COIL ASSY.	1f	1f	1f	**$196.34**	32		265-252	CONNECTOR HOUSING, TWO-POLE	AR	AR	AR	**$6.21**
13		847-660	SPACER 5.2/12/7.4	4	4	4	**$6.31**	33		265-272	FASTON CONNECTOR	AR	AR	AR	**$2.33**
14		240-186	ALLEN SCREW M5X25 / TORQUE: 5 NM / 44 IN.LB.	7	7	7	**$0.52**	34		265-250	CONNECTOR HOUSING, TWO-POLE	AR	AR	AR	**$8.31**
15		851-250	CABLE CLAMP 15/M5	2	2	2	**$6.49**	35		265-270	FASTON CONNECTOR	AR	AR	AR	**$3.67**
16		940-881	ALLEN SCREW M5X30	1	1	1	**$0.53**	36		966-590	CAPACITOR, 22000 MYF 25V	1	1	1	**$139.33**
17		945-751	LOCK WASHER A6	7	7	7	**$0.16**	37		866-710	CLAMP 142X2.5 MM	3	3	3	**$1.18**
18		840-880	ALLEN SCREW M6X30	7	7	7	**$0.51**	38		827-800	WASHER A 5,5 DIN 6902	5g	5g	5	**$0.39**

a STATOR RETROFIT KITS
SEE ALSO CURRENT ISSUE SB-914-014
b STATT 4° VOR OT - 3° NACH OT
c SI-912-013 / SI-914-016 STANDARDIZATION OF THE IGNITION UNIT
FROM ENGINE SERIAL NO.
912 UL 4,406.291
912 ULS 5,643.680
914 UL 4,418.712
d TRIGGER COIL KIT WITH ELONGATED HOLE FOR ADJUSTMENT AND 6-POLE CONNECTOR
FROM ENGINE S/N:
912 UL 4,407.200
912 ULS 5,644.871
914 UL 4,419.037
e 4 POLE CONNECTOR AND TRIGGER COIL WITHOUT ALIGNMENT. REPLACED TRIGGER COIL KIT PART NO. 965-177
SEE HEAVY MAINTENANCE MANUEL OF THE RESPECTIVE ENGINE TYPE, CURRENT ISSUE.
f TRIGGER COIL FOR REV. COUNTER TO PART NO. 965-176 AND PART NO. 965-179

912 and 914 series
NEW VERSION





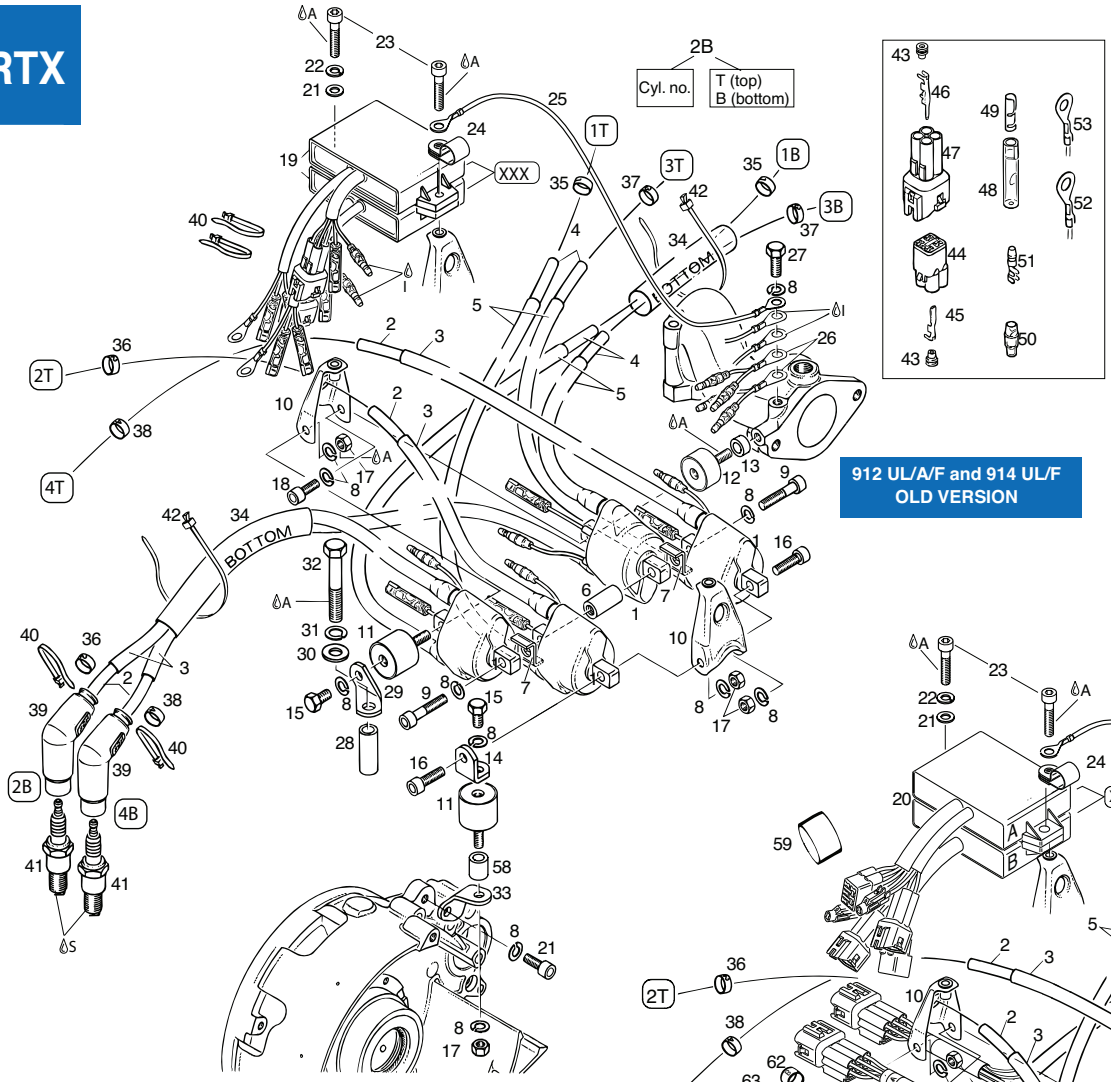
A: LOCTITE 221 - P/N 899-785
I: (Lithium base grease) - P/N 897-330
S: (Silicone heat compound) - P/N 897-186

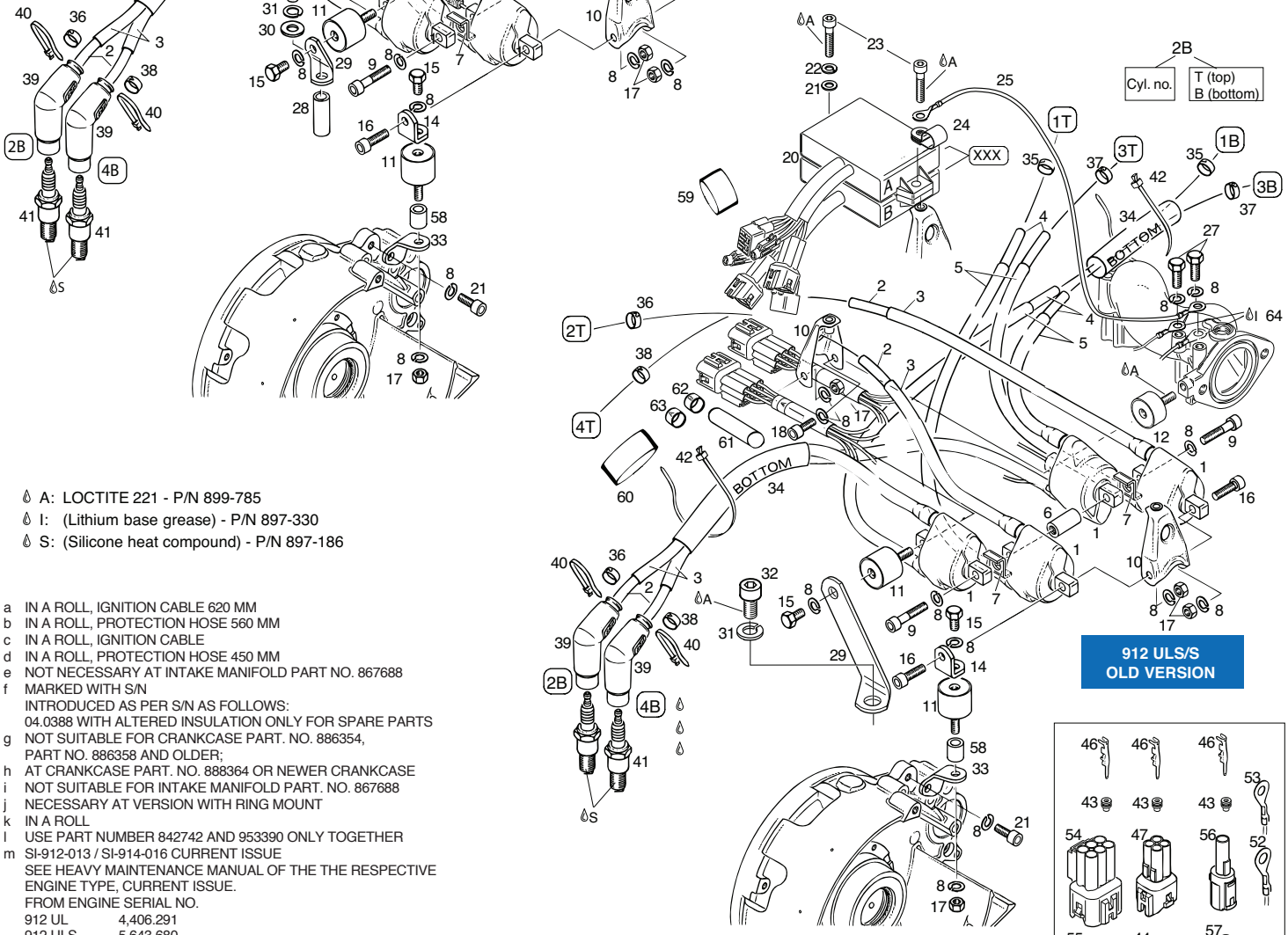
DOUBLE IGNITION COIL ASSY, SMD- ELECTRONIC MODULE

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1-5		966-215	DOUBLE IGNITION COIL	4		4	$299.46
1-5		966-218	DOUBLE IGNITION COIL ASSY.	4M	4M	4M	$299.46
2		865-710	IGNITION CABLE 7 MM	ARa	ARa	ARa	$33.72
3		860-990	PROTECTION HOSE 8X1	ARb	ARb	ARb	$16.34
4		865-710	IGNITION CABLE 7 MM	ARc	ARc	ARc	$33.72
5		860-990	PROTECTION HOSE 8X1	ARd	ARd	ARd	$16.34
6		842-740	DISTANCE NUT M6X24	1			$13.35
6		842-742	DISTANCE NUT M6X22.5	(1)L	1	1	$11.77
7		953-390	SEPARATING PLATE	(2)L	2	2	$5.12
8		945-751	LOCK WASHER A6	10P	11P	10P	$0.16
9		840-883	ALLEN SCREW M6X30	2	2	2	$1.39
10		953-127	IGNITION COIL BRACKET ASSY.	2	2	2	$71.71
11		860-710	RUBBER BUFFER 25X19XM6	2	2	2	$32.82
12		960-060	RUBBER BUFFER 25X15XM6	1	1	1	$27.48
12		860-710	RUBBER BUFFER 25X19XM6	1	1	1	$32.82
13		247-700	SPACER 6.4/10/5	ARe	ARe	ARe	$3.15
14		851-260	IGNITION COIL BRACKET 1	1	1	1	$10.76
15		240-771	HEX.SCREW M6X10	2	2	2	$0.53
16		241-930	ALLEN SCREW M6X20	2	2	2	$0.53
17		242-211	HEX. NUT M6	4	4	4	$0.39
18		241-236	ALLEN SCREW M6X16	2	2	2	$0.63
19		965-358	SMD-ELECTRONIC MODULE	2	2	2	$924.00
20		966-721	SMD-ELECTRONIC MODULE		2F		$1,044.42
20		966-726	SMD-ELECTRONIC MODULE	2m	2m	2m	$925.86
20		966-727	SMD-ELECTRONIC MODULE	2o	2o	2o	$765.86
21		827-800	WASHER A 5.5	1	1	1	$0.39
22		945-750	LOCK WASHER A5	1	1	1	$0.18
23		240-186	ALLEN SCREW M5X25 / TORQUE: 2.5 NM / 22 IN.LB.	2	2	2	$0.52
24		851-118	CABLE CLAMP 11.3/M5	1	1	1	$6.29
25		965-788	MASS CABLE ASSY.	1	1	1	$12.70
26		965-781	MASS CABLE ASSY.	2		2	$41.36
27		241-186	HEX.SCREW M6X16	1	2	1	$0.48
28		847-792	SPACER 8.4/12/30	1g	1g	1g	$13.29
29		851-266	BRACKET	1g	1g	1g	$10.76
29		851-481	BRACKET	1H	1H	1H	$10.76
30		250-311	WASHER 8.4	1g	1g	1g	$0.39
31		945-752	LOCK WASHER A8	1g	1g	1g	$0.18
32		240-281	HEX. SCREW M8X50	1g	1g	1g	$1.81
32		440-191	ALLEN SCREW M8X16	1H	1H	1H	$1.05
33		851-267	BRACKET	1	1	1	$10.76
34		860-734	GLASS FIBER-SILICON SHEATING 120	2	2	2	$7.96
35		860-741	MARKING SLEEVE 1	2	2	2	$0.99
36		860-742	MARKING SLEEVE 2	2	2	2	$0.99

* CALL FOR PRICING!

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
37		860-743	MARKING SLEEVE 3	2	2	2	$0.99
38		860-744	MARKING SLEEVE 4	2	2	2	$0.99
39		265-248	SUPPRESSED SPARK PLUG CONNECTOR	8	8	8	$53.34
40		866-710	CLAMP 142X2.5 MM	8	8	8	$1.18
41		897-255	SPARK PLUG 12 MM / TORQUE: 20 NM / 180 IN.LB.	8			$3.80
41		08-01228	SPARK PLUG 12 / TORQUE: 20 NM / 180 IN.LB.		8		$3.65
41		897-257	SPARK PLUG 12 / TORQUE: 20 NM / 180 IN.LB.			8	$9.30
42		251-920	CLAMP 279X3.6 MM	2	2	2	$1.85
43		260-130	CABLE GROMMET	AR	AR	AR	$2.15
44		265-260	CONNECTOR HOUSING 4-POLE	AR	AR	AR	$6.21
45		265-275	FASTON CONNECTOR	AR	AR	AR	$2.33
46		265-210	FLAT PIN TERMINAL	AR	AR	AR	$1.81
47		265-262	CONNECTOR HOUSING 4-POLE	AR	AR	AR	$13.47
48		964-072	INSULATION SHEATH	AR		AR	$2.15
49		964-067	FASTON CONNECTOR 3.96	AR		AR	$2.15
50		964-077	INSULATION SHEATH	AR		AR	$2.39
51		964-062	FASTON CONNECTOR 3.96	AR		AR	$2.15
52		964-059	CABLE SHOE M6	AR	AR	AR	$1.16
53		964-055	CABLE TERMINAL M5	AR	AR	AR	$0.81
54		265-269	CONNECTOR HOUSING 6-POLE	AR	AR	AR	$16.34
55		265-265	CONNECTOR HOUSING 6-POLE	AR	AR	AR	$9.03
56		265-204	CONNECTOR HOUSING 1-POLE	AR	AR	AR	$12.65
57		265-207	CONNECTOR HOUSING 1-POLE	AR	AR	AR	$9.58
58		847-701	SPACER 6,5/10/11	(1)j	(1)j	1	*
59		960-260	SHRINK TUBE COATED		ARl		$101.01
59			SHRINK TUBE 20 MM		1k		*
60		960-300	SHRINK TUBE COATED 48/16		ARk		$103.67
60			SHRINK TUBE 20 MM		1K		*
61	N.A.		PROTECTION HOSE 60 MM	2	2	2	*
62		960-010	SHRINKABLE HOSE IMPRINTED A	1	1	1	$8.53
63		960-015	SHRINKABLE HOSE IMPRINTED B	1	1	1	$8.53
64		965-784	MASS CABLE ASSY.	2	2	2	$20.01
64		965-784	MASS CABLE ASSY.	2m	2m	2m	$20.01
65		853-125	CONNECTOR BRACKET	1m	1m	1m	$66.40
66		260-135	DUMMY PLUG	1m	1m	1m	$1.76
67		881-280	SOFT START SET	1q	1q	1q	$913.50

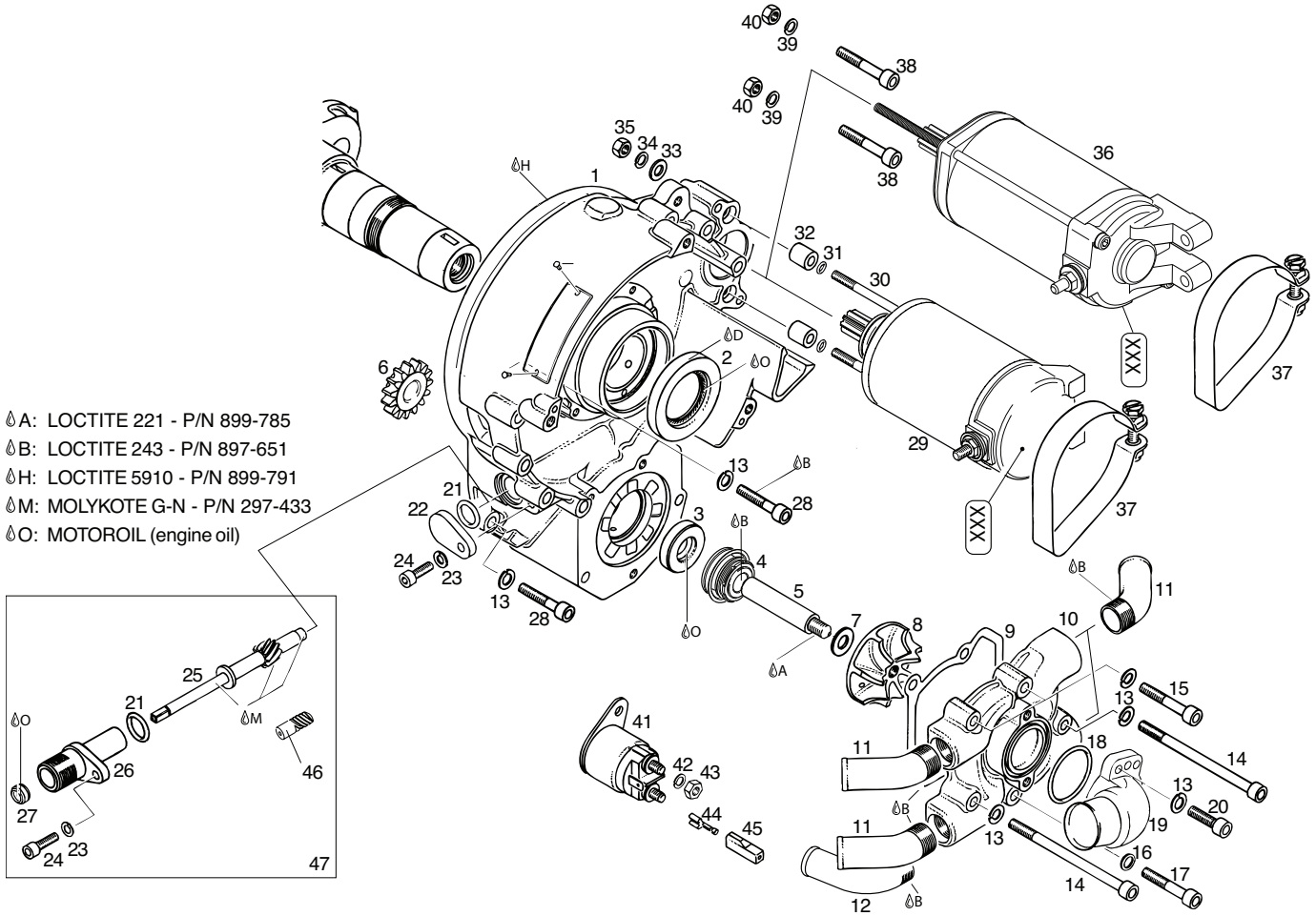




A: LOCTITE 221 - P/N 899-785
I: (Lithium base grease) - P/N 897-330
S: (Silicone heat compound) - P/N 897-186

a IN A ROLL, IGNITION CABLE 620 MM
b IN A ROLL, PROTECTION HOSE 560 MM
c IN A ROLL, IGNITION CABLE
d IN A ROLL, PROTECTION HOSE 450 MM
e NOT NECESSARY AT INTAKE MANIFOLD PART NO. 867688
f MARKED WITH S/N
INTRODUCED AS PER S/N AS FOLLOWS:
04.0388 WITH ALTERED INSULATION ONLY FOR SPARE PARTS
g NOT SUITABLE FOR CRANKCASE PART. NO. 886354,
PART NO. 886358 AND OLDER;
h AT CRANKCASE PART. NO. 888364 OR NEWER CRANKCASE
i NOT SUITABLE FOR INTAKE MANIFOLD PART. NO. 867688
j NECESSARY AT VERSION WITH RING MOUNT
k IN A ROLL
l USE PART NUMBER 842742 AND 953390 ONLY TOGETHER
m SI-912-013 / SI-914-016 CURRENT ISSUE
SEE HEAVY MAINTENANCE MANUAL OF THE THE RESPECTIVE
ENGINE TYPE, CURRENT ISSUE.
FROM ENGINE SERIAL NO.
912 UL 4,406.291
912 ULS 5,643.680
914 UL 4,418.712
m IN A ROLL, SILICONE HOSE 120 MM
o SI-912-020 / SI-914-022 CURRENT ISSUE
p 1X LOCK WASHER A6 PART.NO. 945751 IS NOT NEEDED AFTER
PRODUCTION-YEAR 2010 ON POSITION BETWEEN THE
BRACKET 2 PART.NO. 851267 AND THE HEX. NUT M6.
q WITHOUT MAGNETO WHEEL CONSISTING OF 21, 22, 23, 43, 45

A: LOCTITE 221 - P/N 899-785
I: (Lithium base grease) - P/N 897-330
S: (Silicone heat compound) - P/N 897-186

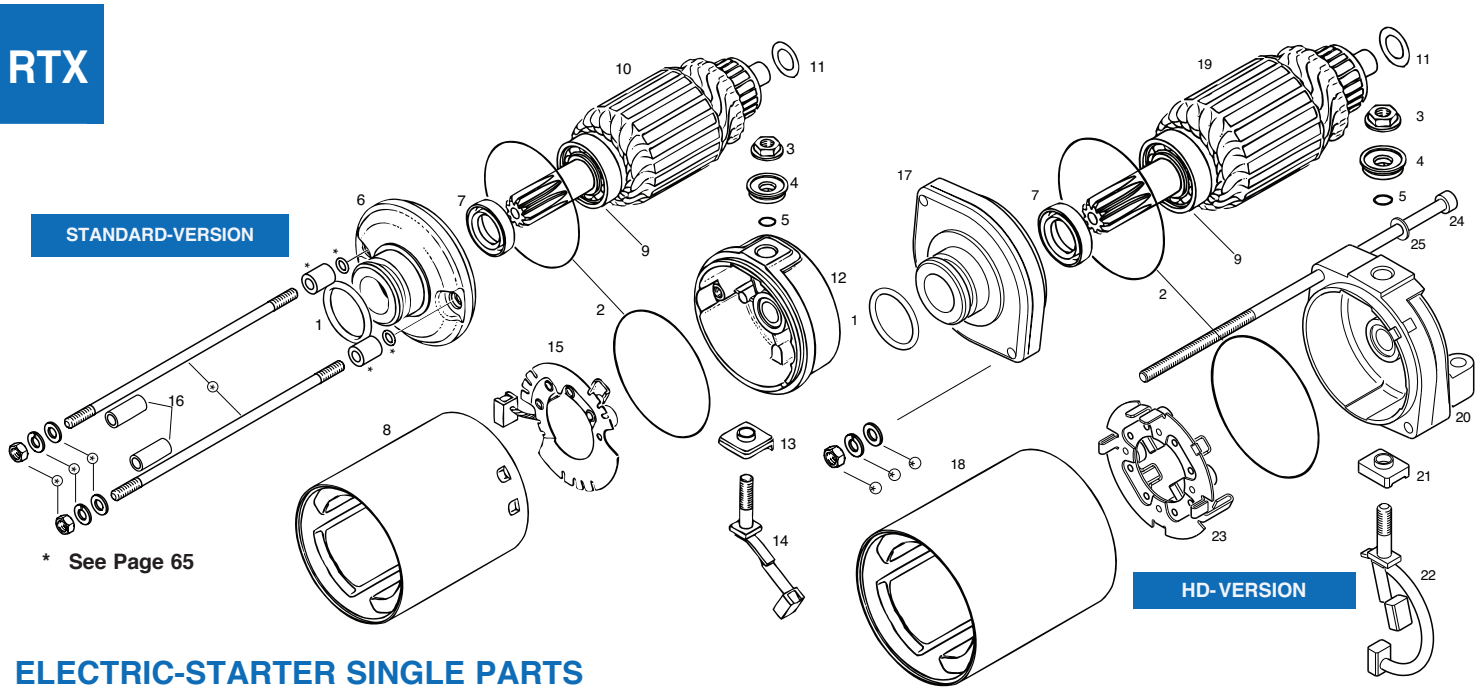


IGNITION HOUSING, WATER PUMP, REV COUNTER DRIVE, ELECTRIC STARTER

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		612-047	IGNITION HOUSING ASSY.	1d	1d	1d	$1,632.15
1		612-046	IGNITION HOUSING ASSY.	1g	1g	1g	$1,632.15
2		850-965	OIL SEAL 32X52X7	1	1	1	$103.32
3		850-977	OIL SEAL A 12X30X7 FPM	1	1	1	$34.06
4		850-945	ROTARY SEAL	1c	1c	1c	$80.83
5		837-111	PUMP SHAFT	1	1	1	$82.26
6		834-135	WATER PUMP GEAR 15 T	1	1	1	$102.60
7		926-274	WASHER 8.2/12.5/1.5	1ac	1ac	1ac	$10.76
8		922-224	IMPELLER / TORQUE: 15 NM /135 IN.LB.	1	1	1	$87.13
9		850-981	GASKET	1	1	1	$11.75
10		922-202	WATER PUMP HOUSING	1	1	1	$381.11
11		922-232	BENT SOCKET 45 DEGREES	3	3	3	$17.50
12		922-230	BENT SOCKET 80 DEGREES	1b	1b	1b	$17.01
13		945-751	LOCK WASHER A6	13	13	13	$0.16
14		241-481	ALLEN SCREW M6X90	2	2	2	$2.28
15		241-811	ALLEN SCREW M6X35	2	2	2	$0.53
16		230-415	GASKET RING A 6X10	1	1	1	$1.34
17		241-813	ALLEN SCREW M6X35, STAINLESS	1a	1a	1a	$1.39
18		230-020	O-RING 32X2	1	1	1	$9.48
19		922-218	WATER INLET ELBOW	1	1	1	$357.06
20		241-930	ALLEN SCREW M6X20	2	2	2	$0.53
21		230-880	O-RING 13.3-2.4	1	1	1	$6.66
22		810-620	COVER PLATE	1	1	1	$8.31
23		945-750	LOCK WASHER A5	1	1	1	$0.18
24		840-511	ALLEN SCREW M5X16	1	1	1	$0.48
25		837-150	REV COUNTER SHAFT	1	1	1	$178.05
26		912-191	REV COUNTER HOUSING	1h	1h	1h	$158.72
27		930-500	OIL SEAL 6X11X3/4.5	1	1	1	$18.24
28		840-880	ALLEN SCREW M6X30	7	7	7	$0.51
29-35,37		293-152	ELECTRIC STARTER SET	1	1	1	$752.78
30		840-635	STUD M5X150/16	2	2	2	$19.63
31		950-420	O-RING 5X1.5-N	2	2	2	$6.50
32		847-248	SPACER 5.4/10/12	2	2	2	$5.07
33		927-571	WASHER 5.3	2	2	2	$0.18
34		945-750	LOCK WASHER A5	2	2	2	$0.18
35		242-071	HEX.NUT M5	2	2	2	$0.39
36-40		889-751	ELECTRIC STARTER SET	1e	1e	1e	$655.95
37		851-020	CLAMP 76 / TORQUE: 2,5 NM / 22 IN.LB.	1h	1h	1h	$26.30
38		941-791	ALLEN SCREW M5X45	2	2	2	$1.05
39		945-750	LOCK WASHER A5	2	2	2	$0.18
40		842-030	LOCK NUT M5	2	2	2	$1.63
41		992-819	STARTER RELAY ASSY.	1	1	1	$193.47
42		945-751	LOCK WASHER A6	2	2	2	$0.16
43		242-211	HEX.NUT M6 / TORQUE: 4 NM / 35 IN.LB.	2	2	2	$0.39
44		960-719	CONNECTOR SHEATH	1	1	1	$0.63
45		864-011	FASTON CONNECTOR 6.3X0.8	1	1	1	$1.34
46		834-181	WORM GEAR 5 T.,	1f	1f	1f	$116.18
47+1-8,13,28		881-692	MECH.REV COUNTER DRIVE RETROFIT KIT	(1f)	(1f)	(1f)	$1,290.28

a STAINLESS
b OPTIONAL FOR ENGINE SUSPENSION FRAME
c THE ROTARY SEAL WAS INTRODUCED FROM FOLLOWING S/N. UP TO THIS S/N THE ROTARY SEAL HAS TO BE EXCHANGED TOGEHTER WITH PART NO. 850945, 926273, 922224:
912 UL: 4,403.283
912 ULS: STARTING WITH SERIAL PRODUCTION
914 UL: 4,417.783
d FOR MECH. REV COUNTER DRIVE WITHOUT CENTERING BORE FOR PICK UP. FOR ENGINES WITHOUT MECH. REV COUNTER DRIVE PART NO. 230880, 945750 AND PART NO. 840511 HAS TO BE MOUNTED ADDITIONAL.
e SEE THEREFORE / CURRENT ISSUE SB-914-023
f SEE HEAVY MAINTENANCE MANUAL OF THE RESPECTIVE ENGINE TYPE, CURRENT ISSUE
g WITHOUT PROCESSING FOR MECH. REV COUNTER DRIVE
h WILL BE DELIVERED IN CIRCLE SHAPE

RTX

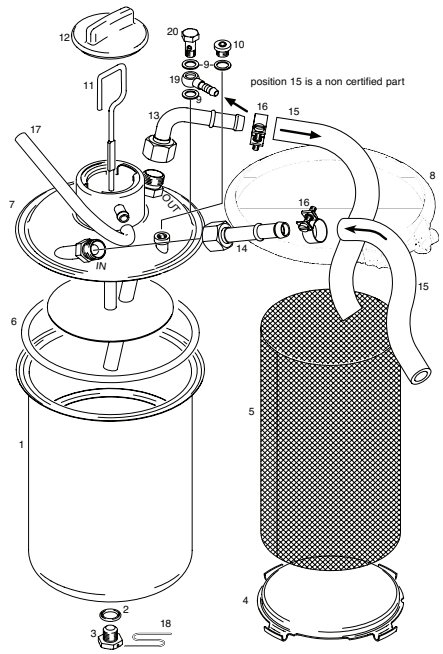


ELECTRIC-STARTER SINGLE PARTS

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		250-140	O-RING 24.4X3.1	1	1	1	$6.81
2		850-500	O-RING 62-1.5	2	2	2	$10.85
3		242-780	COMBINED NUT M6 / TORQUE: 4 NM / 35 IN.LB.	1	1	1	$3.86
4		260-800	CONNECTOR SHEATH	1	1	1	$7.94
5		230-530	O-RING 6X1.7	1	1	1	$2.81
6		264-135	SUPPORT	1	1	1	$228.14
7		250-130	OIL SEAL 15X24X5	1	1	1	$21.86
8		264-150	STATOR YOKE ASSY.	1	1	1	$300.53
9		232-260	BALL BEARING 6002 Z / 15-32-9	1	1	1	$26.73
10		264-140	ROTOR ASSY.	1	1	1	$482.72
11		827-600	SHIM	AR	AR	AR	$4.72
12		264-170	ROTOR SUPPORT ASSY.	1	1	1	$146.78
13		260-810	CONNECTOR SHEATH	1	1	1	$9.20
14		264-180	CARBON BRUSH ASSY.	1	1	1	$46.14
15		866-890	BRUSH HOLDER WITH SPRINGS	1	1	1	$70.65
16		974-524	DISTANCE HOSE 45 MM	1a	1a	1a	*
17	N.A.		SUPPORT	1	1	1	NLA
18	N.A.		STATOR YOKE ASSY.	1	1	1	NLA
19	N.A.		ROTOR ASSY.	1	1	1	NLA
20-23		294-354	ELECTRIC STARTER REPAIR KIT	1	1	1	$261.63
20			ROTOR SUPPORT ASSY.	1b	1b	1b	*
21			CONNECTOR SHEATH	1b	1b	1b	*
22			CARBON BRUSH ASSY.	1b	1b	1b	*
23			BRUSH HOLDER WITH SPRINGS	1b	1b	1b	*
24		440-586	ALLEN SCREW M5X180	2	2	2	$27.99
25		927-571	WASHER 5.3	2	2	2	$0.18

a ONLY FOR TRANSPORT
b NOT AVAILABLE AS SINGLE SPARE PART. USE ELECTRIC STARTER KIT PART NO. 294354.

* CALL FOR PRICING!

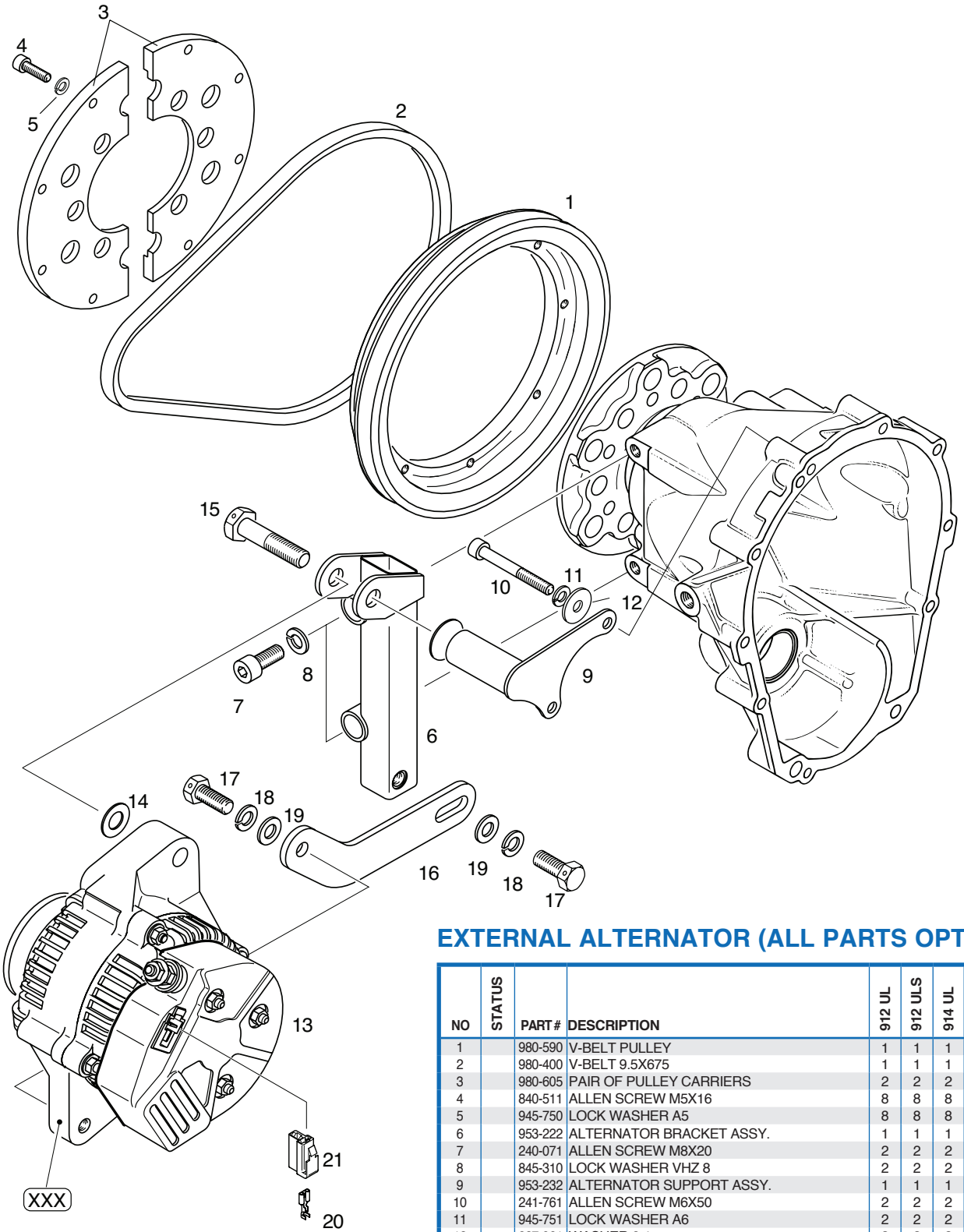


OIL TANK

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1 - 12		956-503	OIL TANK ASSY.	1e	1e	1e	$719.04
1 - 12		956-508	OIL TANK ASSY.	1b	1b	1b	$746.65
1			OIL TANK ASSY WITH BAFFLE INSERT	1a	1a	1a	NLA
2		250-010	GASKET RING C 12X18	1	1	1	$1.63
3		241-403	HEX. SCREW M12X12 / TORQUE: 25 NM / 18 FT.LB.	1	1	1	$37.83
4			PARTITION 2	1a	1a	1a	NLA
5		956-204	BAFFLE INSERT	1	1	1	$64.07
6		850-491	O-RING 145X6	1	1	1	$30.65
7			OIL TANK COVER ASSY.	1a	1a	1a	NLA
8		951-817	PROFILE CLAMP 163	1	1	1	$69.15
9		230-150	GASKET RING 10X14	1	1	2	$0.99
10		641-733	PLUG SCREW M10X1 / TORQUE: 17 NM / 150 IN.LB.	1	1		$10.21
11		956-151	OIL DIPSTICK	1d	1d	1d	$17.84
12		974-647	OIL TANK COVER, WITHOUT VENTING	1	1	1	$30.65
13		956-585	BENT SOCKET ASSY. / TORQUE: 25 NM / 18 FT.LB.	1e	1e	1e	*
14		956-610	HOSE NIPPLE WITH UNION NUT / TORQUE: 25 NM / 18 FT.LB.	1e	1e	1e	$19.96
15		956-390	OIL TUBE	ARc	ARc	ARc	$60.48
16		853-726	CLAMP SP 17/9	4	4	4	$4.72
17		0585-107	POLYU. TUBING 1/2X3/8	AR	AR	AR	$2.10
18		297-555	SAFETY WIRE 0.8 MM	AR	AR	AR	*
19		956-314	HOSE NIPPLE 4/6			1	$22.72
20		940-874	BANJO BOLT M10X1X19 / TORQUE: 17 NM / 150 IN.LB.			1	$13.35

a NOT AVAILABLE AS SPARE PART, USE OIL TANK ASSY.
b WITH UNF ADAPTORS, THREAD SIZE3/4-16 UNF SEE CURRENT ISSUE SI-914-005
c IN A ROLL
d NEW OIL-DIPSTICK / SEE CURRENTISSUE SB-914-026
e WITH METRICAL THREAD ADAPTOR M18X1,5

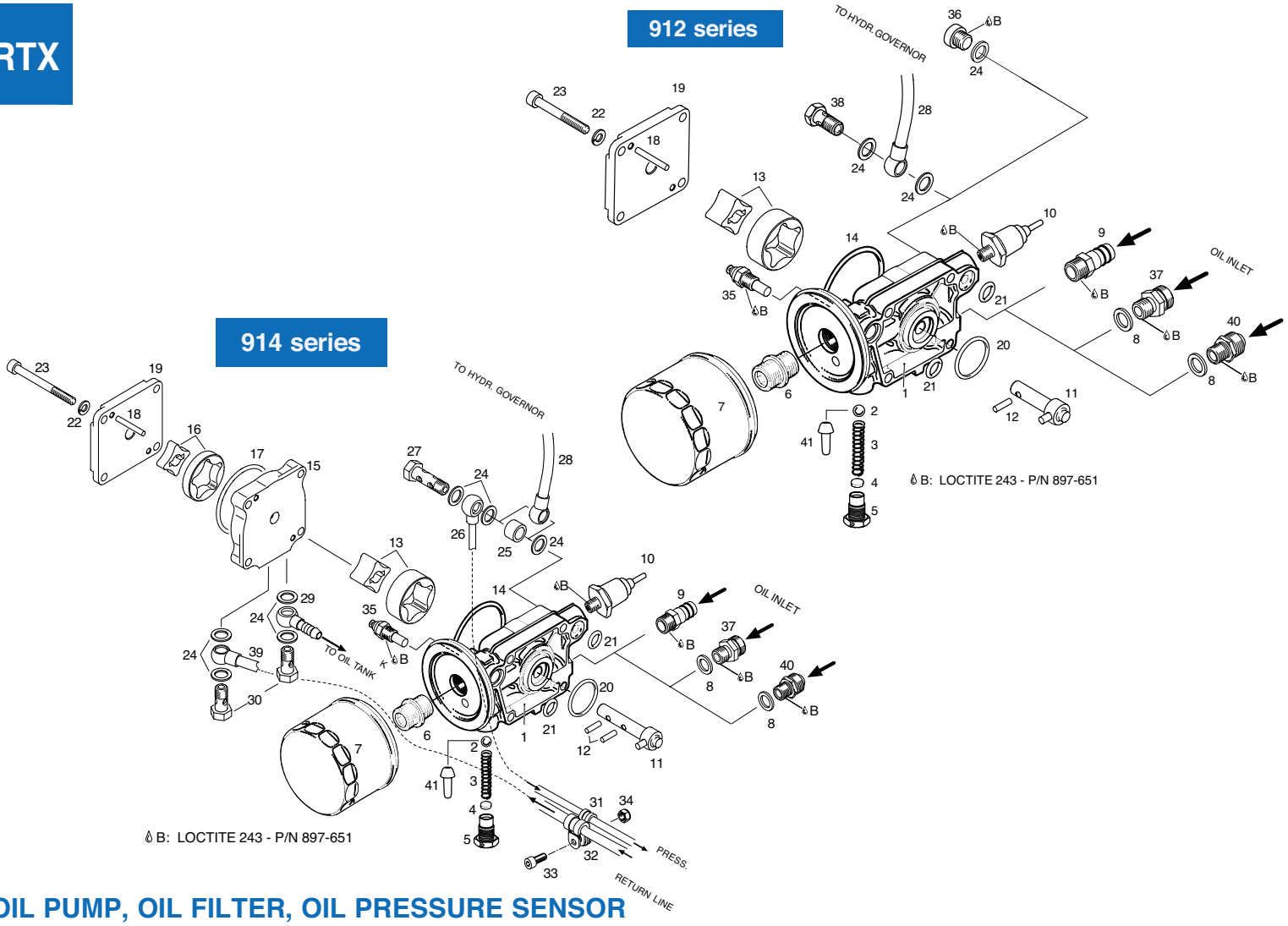
* CALL FOR PRICING!



EXTERNAL ALTERNATOR (ALL PARTS OPTIONAL)

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		980-590	V-BELT PULLEY	1	1	1	$376.30
2		980-400	V-BELT 9.5X675	1	1	1	$29.81
3		980-605	PAIR OF PULLEY CARRIERS	2	2	2	$231.01
4		840-511	ALLEN SCREW M5X16	8	8	8	$0.48
5		945-750	LOCK WASHER A5	8	8	8	$0.18
6		953-222	ALTERNATOR BRACKET ASSY.	1	1	1	$418.24
7		240-071	ALLEN SCREW M8X20	2	2	2	$1.16
8		845-310	LOCK WASHER VHZ 8	2	2	2	$0.39
9		953-232	ALTERNATOR SUPPORT ASSY.	1	1	1	$232.12
10		241-761	ALLEN SCREW M6X50	2	2	2	$0.81
11		945-751	LOCK WASHER A6	2	2	2	$0.16
12		827-961	WASHER 6.4	2	2	2	$0.29
13		887-251	ALTERNATOR F3A	1a	1a	1A	$1,509.84
14		927-952	THRUST WASHER 10.1/20/0.5	1	1	1	$4.54
15		941-636	HEX. SCREW M10X45 / TORQUE: 40 NM / 30 FT.LB.	1	1	1	$13.07
16		953-240	TENSION BAR	1	1	1	$49.86
17		940-596	HEX. SCREW M8X20 / TORQUE: 22 NM / 195 IN.LB.	2	2	2	$10.93
18		945-752	LOCK WASHER A8	2	2	2	$0.18
19		227-935	WASHER 8.4	2	2	2	$1.68
20		864-011	FASTON CONNECTOR 6.3X0.8	2	2	2	$1.34
21		265-255	CONNECTOR HOUSING 2-POLE	1	1	1	$7.48
21-21		887-254	ALTERNATOR SET	1	1	1	$1,398.00

a MARKED WITH S/N



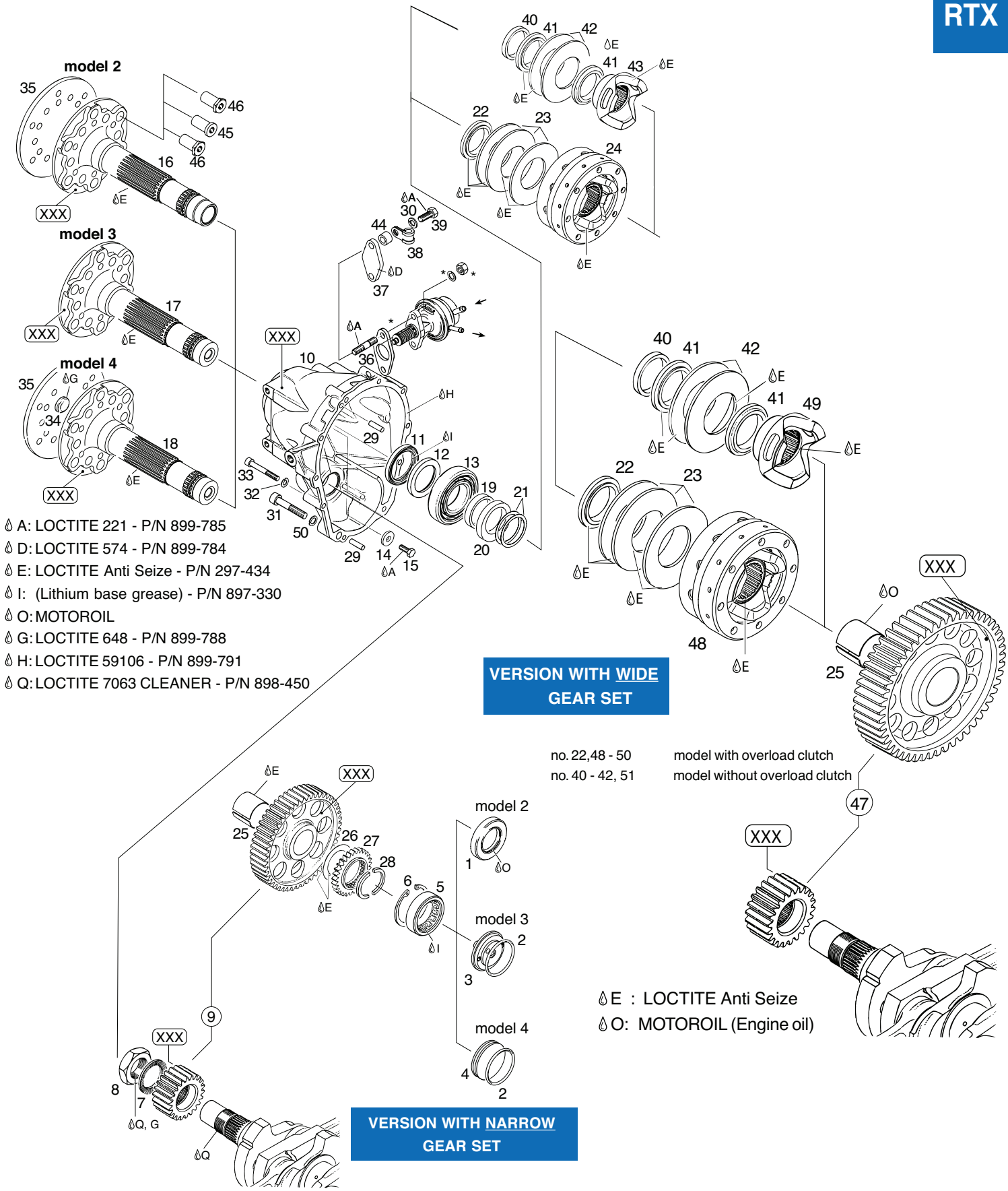
OIL PUMP, OIL FILTER, OIL PRESSURE SENSOR

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		911-815	OIL PUMP HOUSING ASSY.	1	1	1	$658.54
2		432-680	BALL 8.5 MM	1	1	1	$1.18
3		838-122	PRESSURE SPRING DM 7.1 D 0.9 L 39.5	1	1	1	$7.81
4		227-055	SHIM 8.2X1.5	AR	AR	AR	$0.63
5		841-983	PLUG SCREW M12X1 / TORQUE: 25 NM / 18 FT.LB.	1b	1b	1b	$31.41
			THREAD: 15 NM / 135 IN.LB.	AR	AR	AR	$6.21
6		924-423	OIL FILTER NIPPLE / TORQUE: 60 NM / 44 FT.LB.	1a	1a	1a	*
7		825-012	OIL FILTER	1	1	1	$19.95
8		230-387	GASKET RING 14.2/18/2	1	1	1	$1.47
9		840-461	NIPPLE 13.2/9.5-M14X1.5 / TORQUE: 15 NM / 135 IN.LB.	1	(1)	(1)	*
10	S.V.	956-413	PRESSURE SENSOR ASSY. / TORQUE: 15 NM / 135 IN.LB.	1	1	1	NLA
10	N	956-413	OIL PRESSURE SENSOR ASSY. / TORQUE: 15 NM / 135 IN.LB.	1c	1c	1c	NLA
11		837-127	OIL PUMP SHAFT ASSY.			1	$135.37
11		837-129	OIL PUMP SHAFT ASSY.	1	1		$109.16
12		232-730	NEEDLE PIN 4X15.8 G3	1	1	2	$1.63
13		956-278	SUCTION INNER AND OUTER ROTOR ASSY.	1	1	1	*
14		430-405	O-RING 57X3	1	1	1	$13.98
15		810-592	OIL PUMP HOUSING			1	$314.58
16		256-345	PRESSURE INNER AND OUTER ROTOR			1	$110.75
17		430-175	O-RING 46X3			1	$13.69
18		232-430	NEEDLE PIN B 4X29.8 G5			2	$3.01
18		232-730	NEEDLE PIN 4X15.8 G3	2	2		$1.63
19		911-711	OIL PUMP COVER	1	1	1	$95.96
20		950-410	O-RING 30X2.5	1	1	1	$12.38
21		250-460	O-RING 11-2.7	2	2	2	$5.66
22		945-751	LOCK WASHER A6	4	4	4	$0.16
23		241-261	ALLEN SCREW M6X65			4	$1.39
23		241-761	ALLEN SCREW M6X50	4	4		$0.81
24		230-150	GASKET RING 10X14	2	2	7	$0.99
25		847-227	SPACER 10.5/15/10			1	$13.07
26		956-476	TURBO PRESSURE OIL LINE			1	$185.41
27		940-873	BANJO BOLT M10X1X30 / TORQUE: 17 NM / 150 IN.LB.			1	$15.52
			THREAD: 12 NM / 105 IN.LB.				
28		956-460	PRESSURE OIL LINE ASSY.	1	1	1	$250.75
29		956-314	HOSE NIPPLE 4/6			1	$22.72
30		940-874	BANJO BOLT M10X1X19 / TORQUE: 12 NM / 105 IN.LB.	1	1	2	$13.35
31		851-111	CABLE CLAMP 8/M5			2	$11.30
32		851-116	CABLE CLAMP 5/M5			2	$12.65
33		241-841	ALLEN SCREW M5X12			2	$0.66
34		942-020	LOCK NUT M5			2	$1.05
35		965-531	TEMPERATURE SENSOR / TORQUE: 7 NM / 62 IN.LB.	1	1	1	$186.29
36		641-733	PLUG SCREW M10X1 / TORQUE: 10 NM / 90 IN.LB.	1	1		$10.21
37		956-577	ADAPTOR M18X1.5/M14X1.5 / TORQUE: 25 NM / 18 FT.LB.	(1)	(1)	(1)	$47.50
38		940-874	BANJO BOLT M10X1X19 / TORQUE: 17 NM / 150 IN.LB.	1	1	2	$13.35
			TORQUE - OILED / THREAD: 12 NM / 105 IN.LB.				
39		956-470	TURBO OIL SUCTION LINE			1	$158.05
40		956-641	ADAPTOR 3/4-16 UNF/M14 X 1.5 / TORQUE: 25 NM / 18 FT.LB.	1	1	1	$69.12
41	N	857-230	VALVE PISTON	1d	1d	1d	$29.39

a THREAD 3/4-16 UNF FOR OIL FILTER 3 MM EXTENDED. INTRODUCED AS PER ENGINE S/N AS FOLLOWS:
912 A: 4,410.660 912 ULS: 5,644.742
912 F: 4,412.888 912 ULSFR: 4,430.116
912 S: 4,923.163 914 F: 4,420.471
912 UL: 4,407.160 914 UL: 4,419.026

b WITH OPTIMIZED SPRING ROUTING
c SEE SI-912-020 914-022 /CURRENT ISSUE
d OPTIONAL

*** CALL FOR PRICING!**


model 2
model 3
model 4
XXX
A: LOCTITE 221 - P/N 899-785
D: LOCTITE 574 - P/N 899-784
E: LOCTITE Anti Seize - P/N 297-434
I: (Lithium base grease) - P/N 897-330
O: MOTOROIL
G: LOCTITE 648 - P/N 899-788
H: LOCTITE 59106 - P/N 899-791
Q: LOCTITE 7063 CLEANER - P/N 898-450
VERSION WITH WIDE GEAR SET
VERSION WITH NARROW GEAR SET
no. 22,48 - 50
no. 40 - 42, 51
model with overload clutch
model without overload clutch
E : LOCTITE Anti Seize
O: MOTOROIL (Engine oil)

RTX

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		950-200	OIL SEAL 30X52X7	1	1	1	$95.71
2		430-175	O-RING 46X3	1	1	1	$13.69
3		810-301	OIL INLET FLANGE	1	1	1	$180.75
4		810-306	OIL INLET FLANGE	1	1	1	$68.84
5		232-240	ROLLER BEARING 205E C3 25-52-15	1	1	1	$120.42
6		945-820	RETAINING RING 52X2	1	1	1	$4.33
7		845-430	FRICTION WASHER VS30	1	1	1	$9.20
8		842-575	HEX.NUT M30X1.5 12MM, LH / TORQUE: 200 NM / 148 FT.LB.	1	1	1	$16.34
9		886-125	GEAR SET I 2.27 NARROW	1a			$818.10
9		886-517	GEAR SET I 2.43 NARROW	(1)h		1h	$941.05
10		811-956	GEAR COVER ASSY.	1n	1n	1n	$934.42
11		950-470	OIL SEAL AS 40X55X7	1	1	1	$67.62
12		926-022	SPACER RING 36/50/5.5	1	1	1	*
13		832-235	BALL BEARING 6207E TNH, 35-72-17	1	1	1	$83.38
14		944-320	WASHER 7.2/18.8/3	4	4	4	$2.97
15		941-760	HEX. SCREW M7X16 / TORQUE: 15 NM / 135 IN.LB.	4	4	4	$1.34
16		837-285	PROPELLER SHAFT	1c	1c	1c	$386.08
17		837-284	PROPELLER SHAFT	1d	1d	1d	*
18		837-289	PROPELLER SHAFT SEALED	1e	1e	1e	$852.01
19		847-687	SPACER 35.2/42/8	1	1	1	*
20		848-225	ECCENTER	1	1	1	$91.36
21		927-401	SHIM 35.4/43/0.2	AR	AR	AR	$2.50
21		927-402	SHIM 35.4/43/0.5	AR	AR	AR	$2.50
21		927-403	SHIM 35.4/43/1.0	AR	AR	AR	$2.84
22		847-785	STEP COLLAR	1	1	1	$38.40
23		838-215	DISK SPRING B80, 80X41X3	3	3	3	$22.51
24		996-885	OVERLOAD CLUTCH ASSY. NARROW	(1)m		1fhm	$956.00
22-24,28		996-888	CLUTCH ASSY. RETROFIT KIT NARROW	1f		1fh	$956.00
25		933-362	BUSHING 31X33X29.8	1	1	1	$51.86
26		827-992	THRUST WASHER 33.2/51/1.2	1	1	1	$69.43
27		834-232	DRIVE GEAR 29 T.,	1	1	1	$197.72
28		926-035	RING HALF	2	2	2	$41.91
29		429-230	DOWEL 6X20	2	2	2	$2.39
30		945-752	WASHER A8	2	2	2	$0.18
31		841-561	ALLEN SCREW M8X45	2	2	2	$0.37
32		945-751	LOCK WASHER A6	8	8	8	$0.16
33		241-821	ALLEN SCREW M6X45	8	8	8	$0.63
34		244-980	SEALING COVER	1	1	1	$5.01
35		827-837	COVER DISK	AR	AR	AR	$111.13
36		940-361	STUD M8X23/14	2	2		$3.86
37		926-151	COVER				$24.89
38		853-418	CABLE CLAMP	1j	1j	1j	$23.35
39		940-591	HEX. SCREW M8X20 / TORQUE: 15 NM / 135 IN.LB.			2k	$1.16
40		847-689	SPACER 35.2/42/6	1	1	1	$46.52
41		847-785	STEP COLLAR	2	2	2	$38.40
42		838-215	DISK SPRING B80, 80X41X3	2	2	2	$22.51
43		958-891	DOG HUB NARROW	1f,l		1f,l	$375.20
44		847-223	DISTANCE SLEEVE 8.4/15/6			1k	*
45		842-634	ROUND-NECK NUT SET M8	1i	1i	1i	$62.47
46		842-638	HEX.NECK NUT SET 5/16-24UNF	1i	1i	1i	*
46		842-639	HEX.NECK NUT SET 5/16-20UNF	1i	1i	1i	$62.47
47		886-518	GEAR SET I 2,43 WIDE, 7°		1b	1b	$941.05
48		996-910	OVERLOAD CLUTCH ASSY WIDE, 7°		(1)gm	(1)gm	$1,455.30
22,23,48,28		996-889	CLUTCH ASSY RETROFIT KIT WIDE, 7°		1g	1gb	$956.00
49		958-893	DOG HUB WIDE, 7°		1g,l	1g,l	$375.20
50		944-131	WASHER 8	2	2	2	*

GEARBOX ASSY´S WITHOUT POS 1 - 8

*** CALL FOR PRICING!**

A FOR VERSION 2 WITH SLIM DOG GEAR (22 MM)
B FOR VERSION 3 WITH SLIM DOG GEAR (22 MM)
C FOR VERSION 4 WITH SLIM DOG GEAR (22 MM)
D FOR VERSION 2 WITH WIDE DOG GEAR (27 MM);
FOR 914 USE ONLY FROM FOLLOWING ENGINE S/N:
• 914 F : 4,420.164 • 914 UL: 4,417.791
E FOR VERSION 3 WITH WIDE DOG GEAR (27 MM); FOR 914 USE ONLY FROM FOLLOWING ENGINE S/N:
• 914 F : 4,420.164 • 914 UL: 4,417.791
F FOR VERSION 4 WITH WIDE DOG GEAR (27 MM); FOR 914 USE ONLY FROM FOLLOWING ENGINE S/N:
• 914 F : 4,420.164 • 914 UL: 4,417.791
G REPLACEMENT FOR 887701 WITH WIDE DOGGEAR
H REPLACEMENT FOR 887711 WITH WIDE DOGGEAR
I REPLACEMENT FOR 887711 WITH WIDE DOGGEAR
J REPLACEMENT FOR 887680 WITH WIDE DOGGEAR
K REPLACEMENT FOR 888565 WITH WIDE DOGGEAR

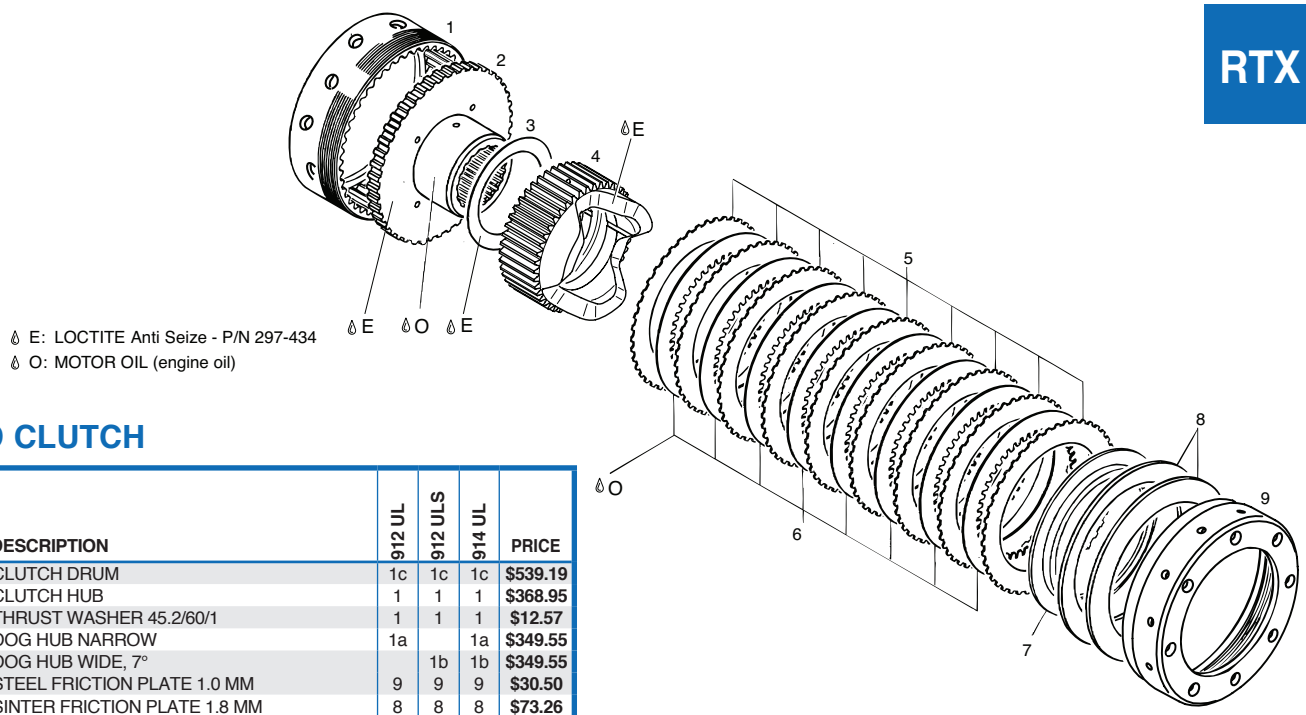
PROPELLER GEAR ASSEMBLY

NO	STATUS	PART #	DESCRIPTION		912 UL	912 ULS	914 UL	PRICE
GEARBOX ASSY'S WITHOUT POS 1 - 8			I=2,27					
		887-281	GEARBOX WITH CLUTCH 2.27-2	NARROW	1A	1A	1A	$3,991.31
		887-271	GEARBOX WITH CLUTCH 2.27-3	NARROW	1B	1B	1B	$3,916.94
		887-286	GEARBOX WITH CLUTCH 2.27-4	NARROW	1C	1C	1C	$3,991.31
		996-605	GEARBOX WITHOUT CLUTCH I 2.27-2	NARROW	1A			$2,848.14
		996-609	GEARBOX WITHOUT CLUTCH I 2.27-4	NARROW	1C			$2,848.14
GEARBOX ASSY'S WITHOUT POS 1 - 8			I=2,24					
		888-560	GEARBOX WITHOUT CLUTCH I 2.43-2	WIDE		1D	1D	$2,848.14
		887-708	GEARBOX WITH CLUTCH I 2.43-3	WIDE		1E	1E	$3,991.31
		888-565	GEARBOX WITHOUT CLUTCH I 2.43-4	WIDE		1F	1F	$2,848.14
		887-703	GEARBOX WITH CLUTCH I 2.43-2	WIDE		1D	1D	$3,991.31
		887-713	GEARBOX WITH CLUTCH I 2.43-4	WIDE		1F	1F	$3,991.31

GEARBOX ASSEMBLY

NO	STATUS	PART #	DESCRIPTION		912 UL	912 ULS	914 UL	PRICE
GEARBOX ASSY'S WITHOUT POS 1 - 8			I = 2.43					
	S.V.	887-701	GEARBOX WITH CLUTCH 2.43-2	NARROW	(1)o	1A	1A	$3,991.31
	N	887-703	GEARBOX WITH CLUTCH 2.43-2	NARROW	(1)o	1G	1G	$3,991.31
	S.V.	887-706	GEARBOX WITH CLUTCH 2.43-3	NARROW	(1)o	1B	1B	$3,991.31
	N	887-708	GEARBOX WITH CLUTCH 2.43-3	NARROW	(1)o	1H	1H	$3,991.31
	S.V.	887-711	GEARBOX WITH CLUTCH 2.43-4	NARROW	(1)o	1C	1C	$3,991.31
	N	887-713	GEARBOX WITH CLUTCH 2.43-4	NARROW	(1)o	1I	1I	$3,991.31
	S.V.	887-680	GEARBOX WITHOUT CLUTCH I 2.43-2	NARROW			1A	$2,848.14
	N	888-560	GEARBOX WITHOUT CLUTCH I 2.43-2	NARROW			J	$2,848.14
	S.V.	887-685	GEARBOX WITHOUT CLUTCH I 2.43-4	NARROW			1C	$2,848.14
	N	888-565	GEARBOX WITHOUT CLUTCH I 2.43-4	NARROW			K	$2,848.14

a DRIVE GEAR 22 Z. AND REDUCTION GEAR 50 Z. ARE PAIRED AND MUST BE REPLACED TOGETHER AND MARKED WITH S/N. SEE SL-912-002 RESP. SL-914-002.
b DRIVE GEAR 21 T. AND REDUCTION GEAR 51 T. ARE PAIRED AND MUST BE RE PLACED TOGETHER AND MARKED WITH S/N. WITH WIDE DOG GEAR (27 MM); SEE SL-912-002 RESP. SL-914-002; FOR 914 USE ONLY FROM FOLLOWING ENGINE S/N:
• 912 S: AB SERIENBEGINN / STARTING WITH SERIAL PRODUCTION
• 914 F : 4,420.164
• 912 ULS: AB SERIENBEGINN / STARTING WITH SERIAL PRODUCTION
• 914 UL: 4,417.791
c FOR MODEL 2 MARKED WITH S/N
d FOR MODEL 3 MARKED WITH S/N
e FOR MODEL 4 MARKED WITH S/N
f FOR GEAR SET PART NO.: 886125, PART NO.: 886517; (NARROW VERSIONS);
• 914 F : 4,420.164 • 914 UL: 4,417.791
g FOR GEAR SET PART NO.: 886518; (WIDE VERSION);
h DRIVE GEAR 21 T. AND REDUCTION GEAR 51 T. ARE PAIRED AND MUST BE REPLACED TOGETHER AND MARKED WITH S/N. WITH THIN DOG GEAR (22 MM); SEE SL-912-002 RESP. SL-914-002; FOR 914 USE ONLY UP TO S/N:
• 914 F : 4,420.163 • 914 UL: 4,417.790
i DO NOT USE AT VERSION WITH AUXILIARY ALTERNATOR; ONLY AVAILABLE AS A SET (INCLUDES 6 PIECES).
j ONLY WHEN A GOVERNOR IS USED;
k VERSION WITHOUT GOVERNOR: 2X940.591;
VERSION WITH GOVERNOR: 1X240.276, 1X940.591, 1X847.224;
l DOG HUB WITH EXTENDED HUB.
m WITH ADDITIONAL BORES TO DRAIN LEAD
n INCREASED SUPPORT BEARING DIAMETER
o SEE SL-912-002 CURRENT ISSUE



E: LOCTITE Anti Seize - P/N 297-434
O: MOTOR OIL (engine oil)

OVERLOAD CLUTCH

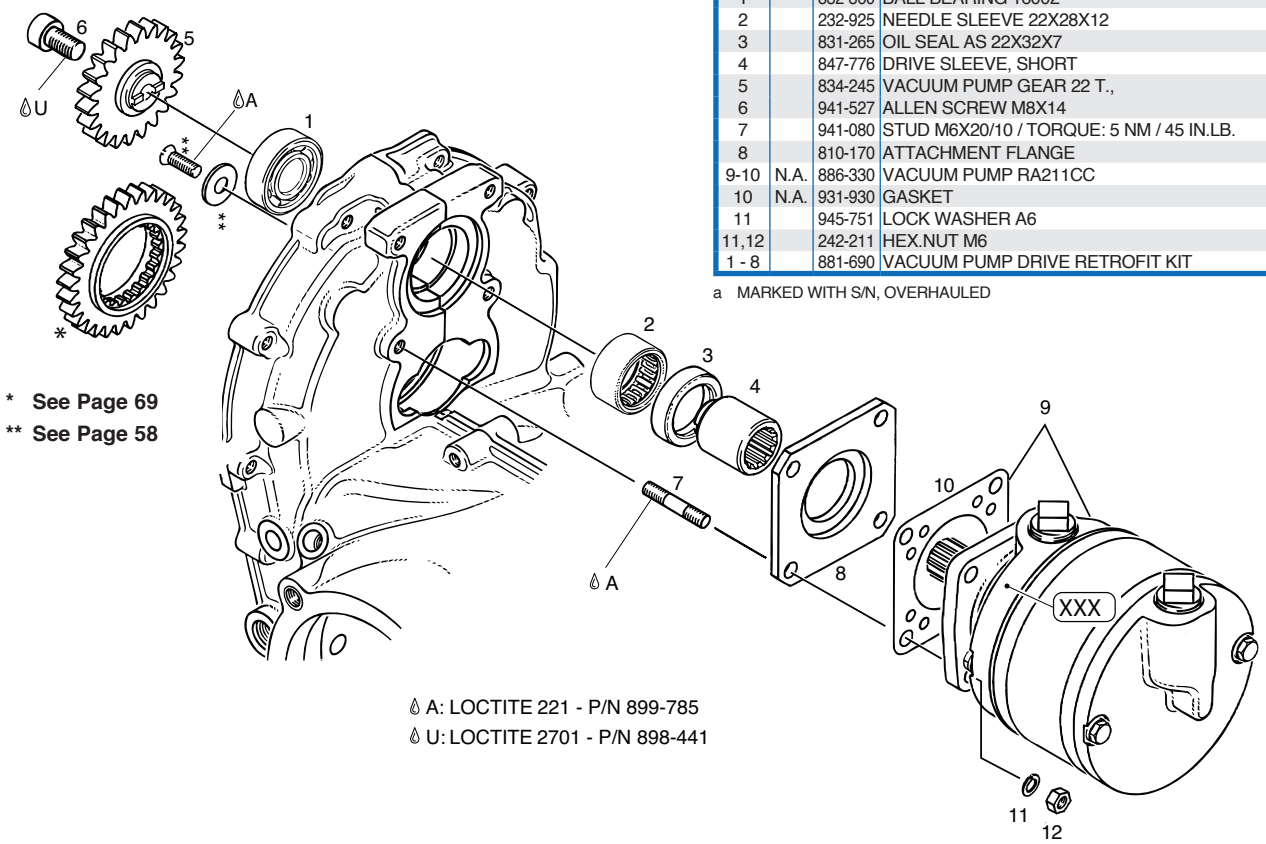
NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		958-912	CLUTCH DRUM	1c	1c	1c	$539.19
2		958-905	CLUTCH HUB	1	1	1	$368.95
3		944-080	THRUST WASHER 45.2/60/1	1	1	1	$12.57
4		958-920	DOG HUB NARROW	1a		1a	$349.55
4		958-924	DOG HUB WIDE, 7°		1b	1b	$349.55
5		958-931	STEEL FRICTION PLATE 1.0 MM	9	9	9	$30.50
6		958-944	SINTER FRICTION PLATE 1.8 MM	8	8	8	$73.26
7		958-951	SUPPORT RING	1	1	1	$104.67
8		838-161	DISK SPRING 100X76X2.7	2	2	2	$69.11
9		842-643	COLLAR NUT M102X1.5	1c	1c	1c	$259.75

a FOR GEAR SETS PART NO. 886125, 886517; THIN DOG GEAR (22 MM);
b FOR GEAR SET PART NO. 886518; WIDE DOG GEAR (27 MM);
c WITH ADDITIONAL BORES TO DRAIN LEAD

VACUUM PUMP WITH DRIVE (ALL PARTS OPTIONAL)

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		832-360	BALL BEARING 16002	1	1	1	$39.93
2		232-925	NEEDLE SLEEVE 22X28X12	1	1	1	$35.11
3		831-265	OIL SEAL AS 22X32X7	1	1	1	$47.21
4		847-776	DRIVE SLEEVE, SHORT	1	1	1	$281.88
5		834-245	VACUUM PUMP GEAR 22 T.,	1	1	1	$202.15
6		941-527	ALLEN SCREW M8X14	1	1	1	$24.66
7		941-080	STUD M6X20/10 / TORQUE: 5 NM / 45 IN.LB.	4	4	4	$5.37
8		810-170	ATTACHMENT FLANGE	1	1	1	$149.88
9-10	N.A.	886-330	VACUUM PUMP RA211CC	1a	1a	1a	NLA
10	N.A.	931-930	GASKET	1	1	1	NLA
11		945-751	LOCK WASHER A6	4	4	4	$0.16
11,12		242-211	HEX.NUT M6	4	4	4	$0.39
1 - 8		881-690	VACUUM PUMP DRIVE RETROFIT KIT	AR	AR	AR	$731.00

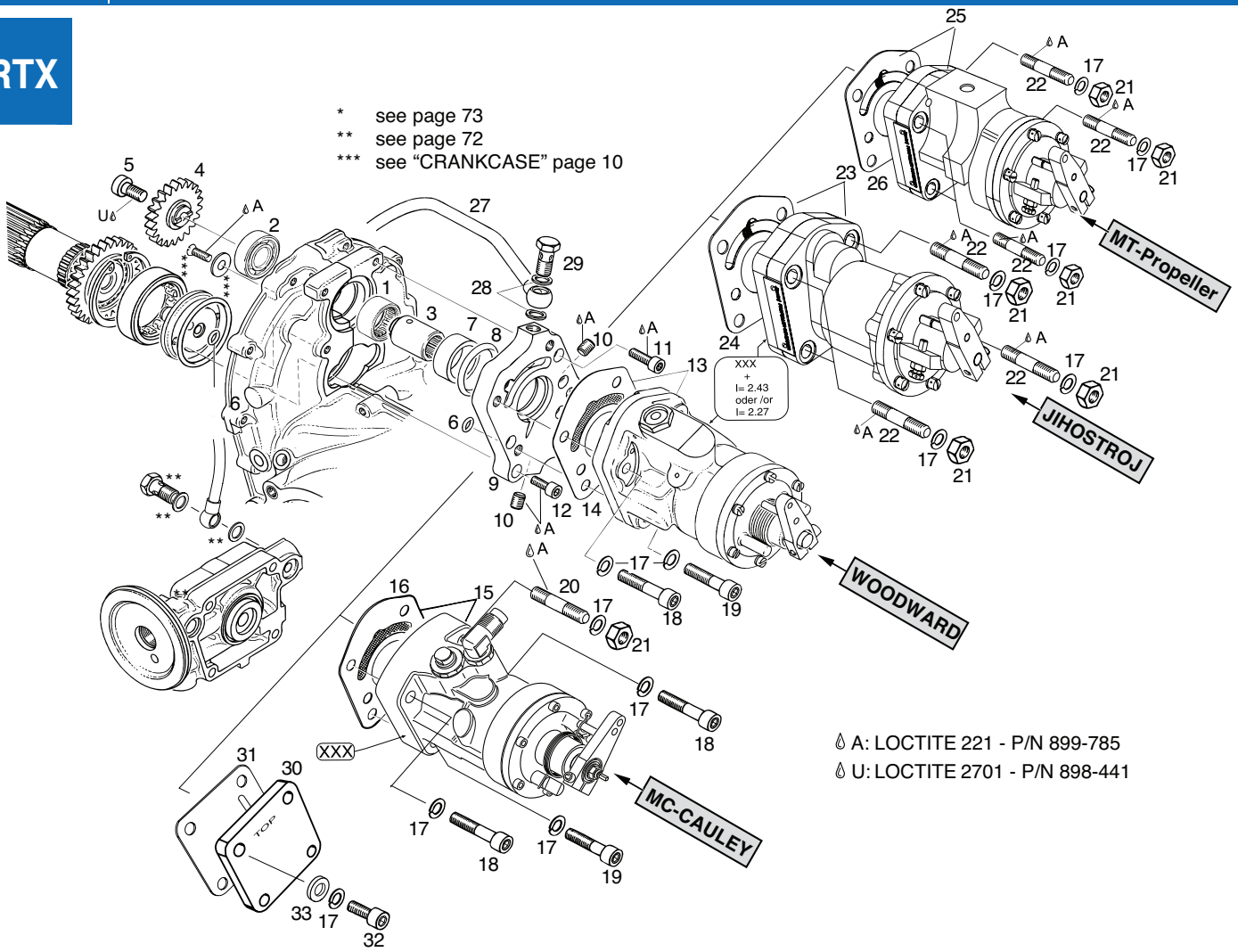
a MARKED WITH S/N, OVERHAULED



* See Page 69
** See Page 58

A: LOCTITE 221 - P/N 899-785
U: LOCTITE 2701 - P/N 898-441

RTX

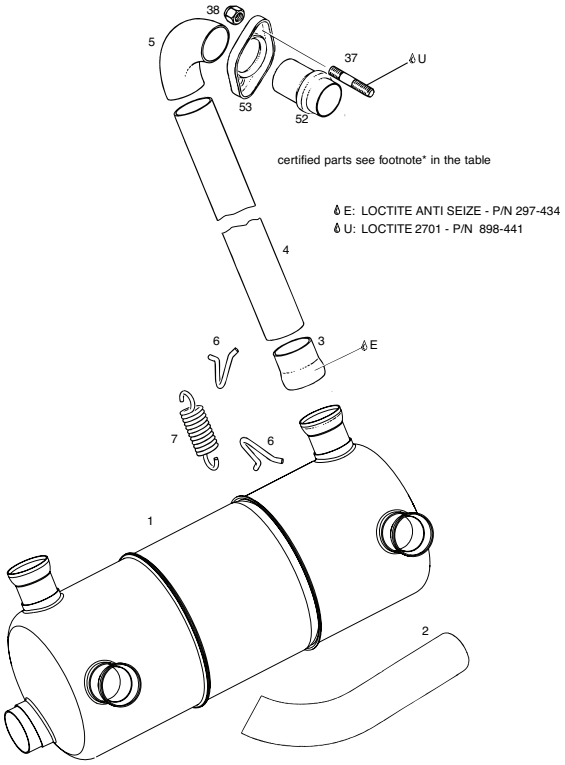


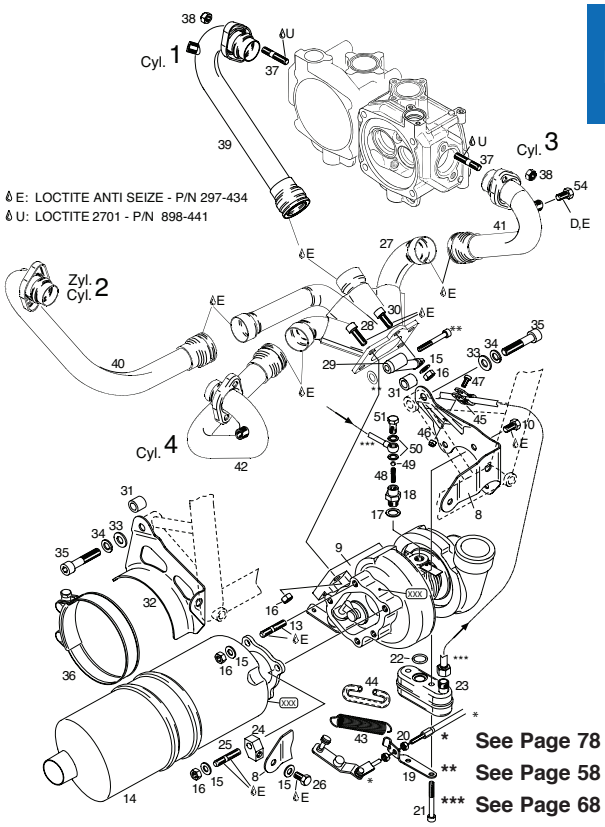
HYDRAULIC GOVERNOR ARRANGEMENT FOR CONSTANT SPEED PROPELLER,GOVERNOR

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		232-925	NEEDLE SLEEVE 22X28X12	1	1	1	$35.11
2		832-360	BALL BEARING 16002	1	1	1	$39.93
3		847-778	DRIVE SLEEVE, LONG	1	1	1	$311.67
4		834-245	VACUUM PUMP GEAR 22 T.,	1	1	1	$202.15
5		941-521	ALLEN SCREW M8X16	1	1	1	$1.18
6		830-415	O-RING 7X2	2	2	2	$6.38
7		847-802	SPACER 25/31.95/13	1	1	1	$21.86
8		950-380	O-RING 32X4	1	1	1	$11.08
9		810-293	GOVERNOR FLANGE	1	1	1	$536.31
10		941-611	SCREW PLUG M8X1 / TORQUE: 10 NM / 90 IN.LB.	2	2	2	$5.37
11		241-930	ALLEN SCREW M6X20	4	4	4	$0.53
12		241-236	ALLEN SCREW M6X16	2	2	2	$0.63
13-14	N.A.	886-730	GOVERNOR A210786	1a			$6,141.90
13-14	N.A.	886-735	GOVERNOR A210786	1b	1b	1b	$6,893.96
14		931-372	GASKET	1	1	1	$181.33
15-16	N.A.	888-500	GOVERNOR	1c	1c	1c	*
15-16	N.A.	888-502	GOVERNOR	1e	1e	1e	*
15-16	N.A.	888-505	GOVERNOR	1d	1d	1d	*
15-16	N.A	888-507	GOVERNOR	1f	1f	1f	*
16		931-372	GASKET	1	1	1	$181.33
17		945-752	LOCK WASHER A8	4	4	4	$0.18
18		840-681	ALLEN SCREW M8X40	3	3	3	$1.68
19		841-591	ALLEN SCREW M8X35				$1.34
20		940-301	STUD M8X37	1k	1k	1k	$3.45
21		942-674	HEX. NUT M8	1d	1d	1d	$1.89
22		840-711	STUD M8X21	4	4	4	*
23	N.A.	889-795	GOVERNOR JIHOSTROJ	1g	1g	1g	*
23	N.A.	889-790	GOVERNOR JIHOSTROJ	1h	1h	1h	*
24		931-372	GASKET	1	1	1	$181.33
25	N.A.		GOVERNOR MT-PROPELLER	1i	1i	1i	*
25	N.A.		GOVERNOR MT-PROPELLER	1j	1j	1j	*
26		931-372	GASKET	1	1	1	$181.33
27		956-460	PRESSURE OIL LINE ASSY.	1	1	1	$250.75
28		230-150	GASKET RING 10X14				$0.99
29		940-874	BANJO BOLT M10X1X19 / TORQUE: 17 NM / 150 IN.LB. TORQUE - OILED / THREAD: 12 NM / 110 IN.LB.	1	1	1	$13.35
30		926-231	COVER PLATE	1	1	1	$113.03
31		931-770	GASKET	1	1	1	$12.38
32		240-071	ALLEN SCREW M8X20	4	4	4	$1.16
33		250-311	WASHER 8.4	4	4	4	$0.39
		881-702	PROP. SHAFT CONFIG. 3 RETROFIT KIT	AR	AR	AR	$1,855.92
		881-700	GOVERNOR DRIVE RETROFIT KIT	AR	AR	AR	$1,451.00

*** CALL FOR PRICING!**

a WOODWARD GOVERNOR MARKED WITH S/N, AND GEAR RATIO 2.27
b WOODWARD GOVERNOR MARKED WITH S/N, AND GEAR RATIO 2.43
c MC-CAULEY GOVERNOR MARKED WITH S/N, AND GEAR RATIO 2.27
d MC-CAULEY GOVERNOR MARKED WITH S/N, AND GEAR RATIO 2.43
e MC-CAULEY GOVERNOR FOR FEATHER POSITION MARKED WITH S/N, AND MODIFIED FOR GEAR RATIO 2.27
f MC-CAULEY GOVERNOR FOR FEATHER POSITION MARKED WITH S/N, AND MODIFIED FOR GEAR RATIO 2.43
g JIHOSTROJ GOVERNOR MARKED WITH S/N, AND GEAR RATIO 2.27
h JIHOSTROJ GOVERNOR MARKED WITH S/N, AND GEAR RATIO 2.43
i MT- PROPELLER GOVERNOR MARKED WITH S/N, AND GEAR RATIO 2.27
j MT- PROPELLER GOVERNOR MARKED WITH S/N, AND GEAR RATIO 2.43
k WRENCH SIZE 11 MM (0.44 INCH)





* See Page 78
** See Page 58
*** See Page 68

MUFFLER, TURBOCHARGER, OIL SUMP CONTAINER

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		978-060	MUFFLER ASSY STANDARD	(1)			$908.06
1		978-063	MUFFLER ASSY STAINLESS	(1)			*
1		973-674	MUFFLER ASSY. STAINLESS	(1)	(1)		$1,082.79
1-7		978-489	EXHAUST ASSORTMENT STAINLESS STEEL	(1)			$1,160.35
1-7		973-676	EXHAUST ASSORTMENT STAINLESS STEEL	(1)	(1)		$769.00
2		978-600	EXHAUST ELBOW, STANDARD	(1)	(1)		$43.49
2		978-601	EXHAUST ELBOW, STAINLESS	(1)	(1)		$93.11
3		978-520	BALL JOINT, MALE	(4)			$16.79
3		978-521	BALL JOINT, MALE STAINLESS	(4)	(4)		$27.69
4		978-997	EXHAUST TUBE 800 MM	(2)			$33.58
4		978-998	EXHAUST TUBE 800 MM, STAINLESS	(2)	(2)		$83.38
5		978-496	EXHAUST ELBOW ASSY. 1.5 MM, STAINL.	(2)a	(2)a		$137.24
6		853-355	HOOK	(16)			$1.81
6		853-356	HOOK, STAINLESS	(16)	(16)		$2.06
7		938-795	SPRING 66 MM	(8)	(8)		$3.28
8		851-293	TURBO BRACKET			1	*
9-12	N	887-129	TURBOCHARGER ASSY.			1b,i,j	$7,645.56
10		940-583	HEX. SCREW M8X16 STAINLESS STEEL / TORQUE: 25 NM / 18 FT.LB.			4	$3.05
11	N.A.	929-030	SPRING PIN, STAINLESS STEEL			1j	$14.47
12	N.A.	942-020	LOCK NUT M5			1j	$1.05
13		940-173	STUD M8X19.5/13			4c	$6.71
14		979-406	MUFFLER ASSY., STAINLESS STEEL			1bh	$1,491.29
15		250-313	WASHER 8.4 STAINLESS STEEL			7	$1.16
16		242-203	HEX.NUT M8 STAINLESS STEEL			10	$1.63
17		250-640	GASKET A 12X18-CU			1	$1.81
18		956-486	VALVE HOUSING / TORQUE: 25 NM / 18 FT.LB.			1	$69.75
19		851-392	CABLE SUPPORT			1	$97.42
20		242-211	HEX.NUT M6			2	$0.39
21		640-600	HEX.SCREW M6X55			2	$7.81
22		430-225	O-RING 15.9-2.3			1	$8.50
23		956-495	OIL SUMP ASSY.			1	$198.42
24		953-280	SUPPORT PLATE			1	$62.89

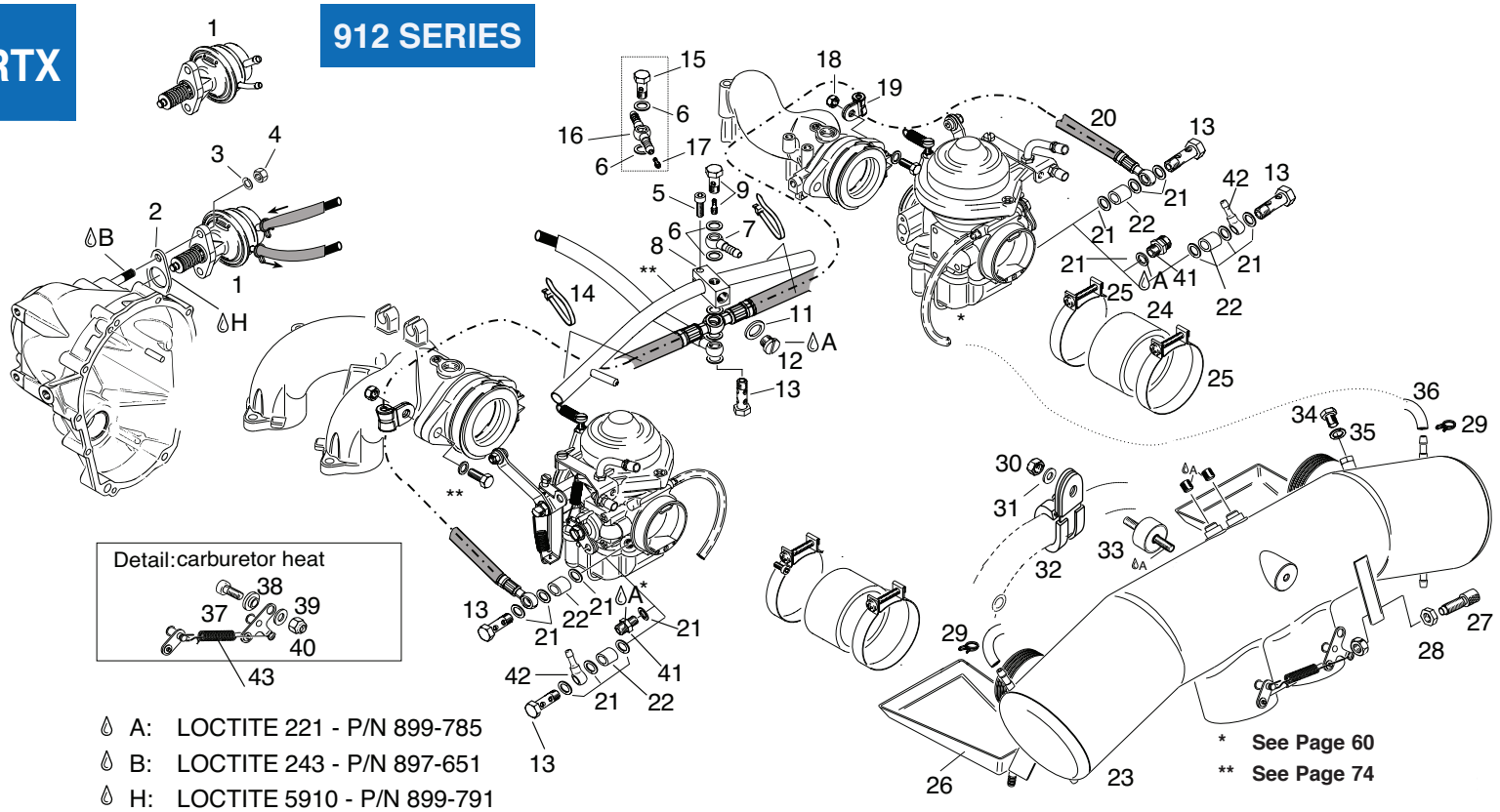
NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
25		641-343	STUD M8X30/13 / TORQUE: 6 NM / 55 IN.LB.			1c	$8.31
26		940-583	HEX. SCREW M8X16 STAINLESS STEEL / TORQUE: 25 NM / 18 FT.LB.			1	$3.05
27		979-414	EXHAUST MANIFOLD ASSY. STAINLESS			1g	$1,301.59
28		240-083	ALLEN SCREW M8X25 STAINLES / TORQUE: 25 NM / 18 FT.LB.			4	$3.01
29		953-303	MANIFOLD BRACKET ASSY. STAINLESS			1	$242.08
30		240-073	CYL. SCREW M8X20 STAINLESS STEEL / TORQUE: 25 NM / 18 FT.LB.			1	$1.52
31		847-840	SPACER 10.5/17/15			2	$8.61
32		851-302	EXHAUST BRACKET			1	$323.82
33		927-410	WASHER 10.5			2	$0.53
34		945-753	LOCK WASHER A10			2	$0.27
35		640-572	ALLEN SCREW M10X50 / TORQUE: 40 NM / 30 FT.LB.			2	$3.54
36		851-311	CLAMP 120 / TORQUE: 15 NM / 135 IN.LB.			1	$75.19
37		940-366	STUD M8X23/20 / TORQUE: 8 NM / 71 IN.LB.	8	8	8	$4.33
38		842-950	LOCK NUT M8 / TORQUE: 12 NM / 110 IN.LB.	8	8	8	$2.52
39		979-426	EXHAUST BEND CYL. 1 STAINLESS STEEL			1g	$733.20
40		979-436	EXHAUST BEND CYL. 2 STAINLESS STEEL			1g	$733.20
41		979-446	EXHAUST BEND CYL. 3 STAINLESS STEEL			1g	$752.00
42		979-456	EXHAUST BEND CYL. 4 STAINLESS STEEL			1g	$810.29
43		838-232	TENSION SPRING, STAINLESS STEEL			1	$13.02
44		960-080	SILICONE TUBE 5X8 ARDARD			ARd	$38.15
45		851-111	CABLE CLAMP 8/M5			1	$11.30
46		942-020	LOCK NUT M5			1	$1.05
47		241-841	ALLEN SCREW M5X12			1	$0.66
48		239-130	COMPRESSION SPRING 22.0			1	$4.86
49		232-440	BALL 5.556 MM			1	$0.63
50		950-141	GASKET RING A 8X13			2	$1.45
51	S.V.	941-783	BANJO BOLT M8X1X17 / TORQUE: 10 NM / 90 IN.LB.			1e	$51.46
51	N	840-730	BANJO BOLT M8X1X17 / TORQUE - OILED / THREAD: 8 NM / 71 IN.LB.			1e	$51.46
52		978-252	EXHAUST SOCKET	4	4		$30.78
53		978-243	EXHAUST FLANGE	4	4		$28.79
54	N.A.		HEX. SCREW M8X1X6			4	NLA

*** CALL FOR PRICING!**

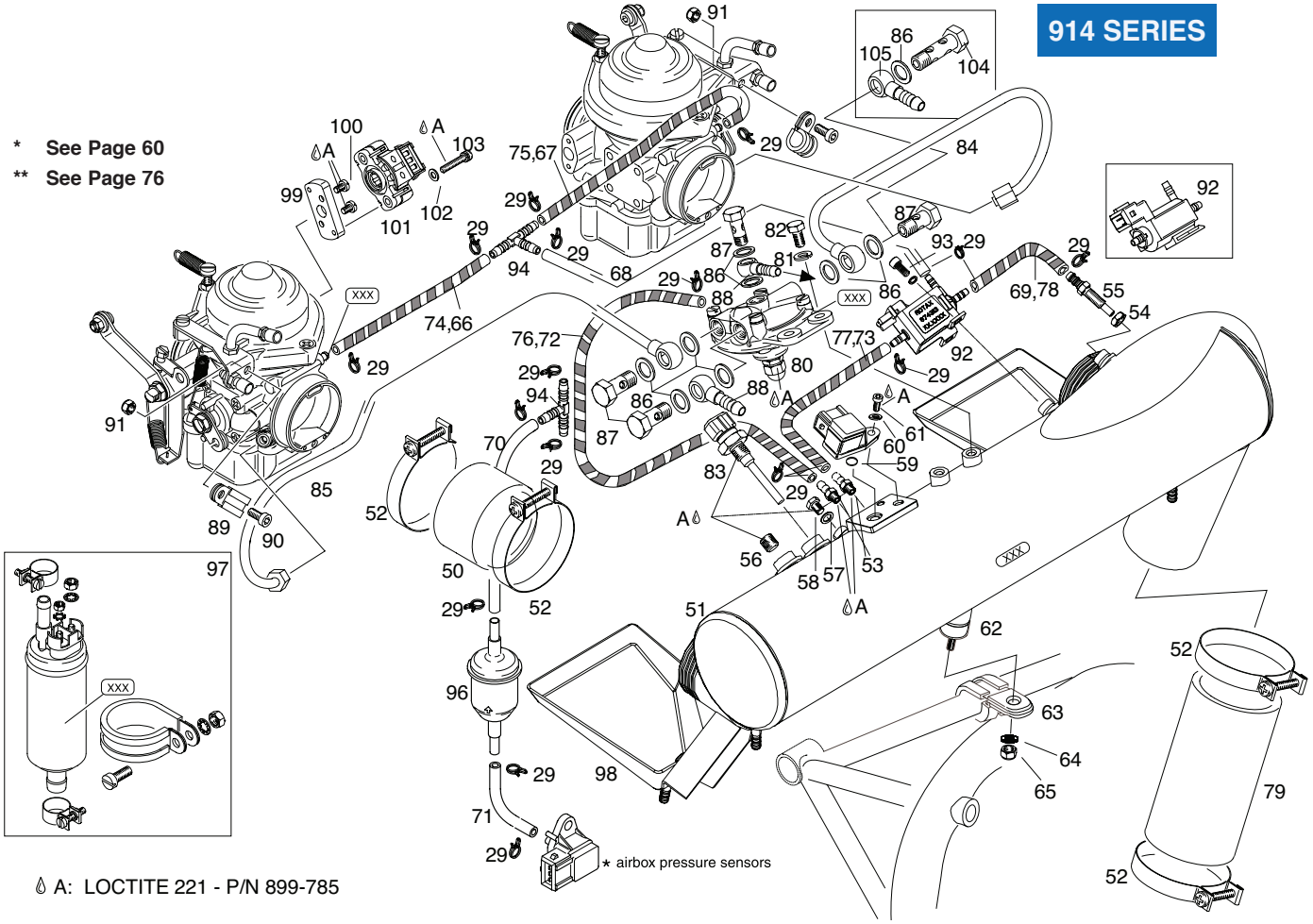
A 360° ANULAR RING (TORUS- SHAPED)
B MARKED WITH S/N
C STAINLESS
D IN A ROLL, TUBE 125 MM (4.92 IN.)
E WITH IMPRINTING „OIL“
F TYPE „LIESE“
G SEE SERVICE INSTRUCTION SI-914-022 CURRENT ISSUE
H WITH ADDITIONAL INTERNAL BRACKET FROM ENGINE S/N 914 F 4,420.437
I WITH LUBRICATION HOLE FOR WASTE GATE SHAFT
J ONLY AT TURBOCHARGER PART NR. 887123, ALL OTHER TURBOCHARGER REVISIONS HAVE THE SPRING PIN WELDED ONTO THE LEVER
* CERTIFIED PART

RTX

912 SERIES



914 SERIES



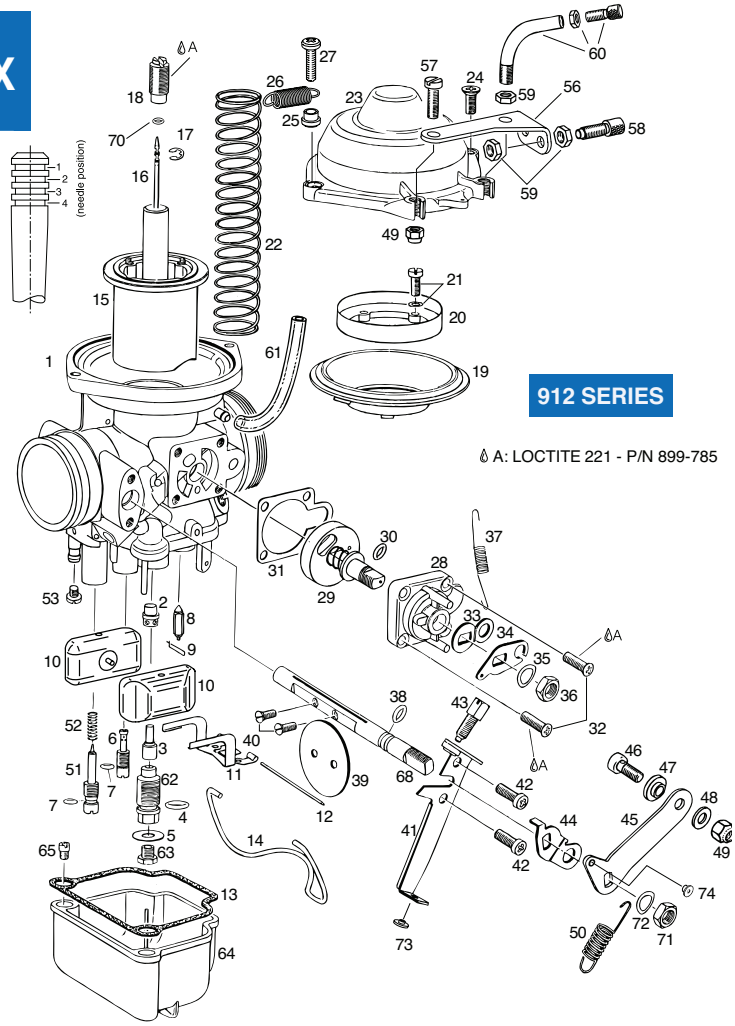
FUEL LINE, CARBS, AIR BOX

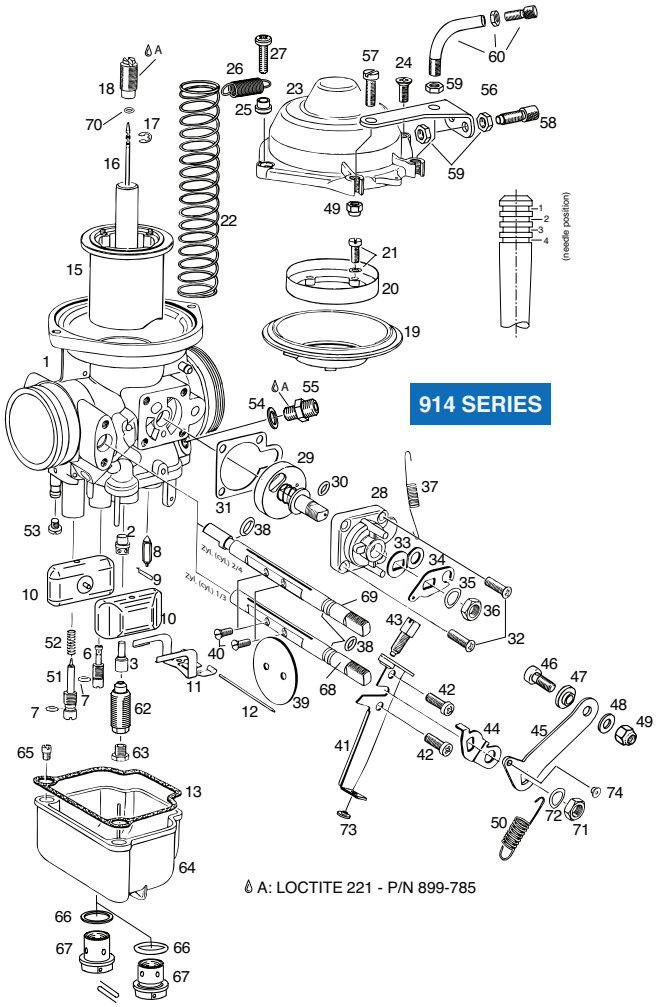
NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1	N	893-114	FUEL PUMP ASSY.	(1)a	(1)a		$511.13
1	N	893-110	FUEL PUMP ASSY.	1b	1b		$171.87
2		950-227	ISOLATING FLANGE	1	1		$38.19
3		945-752	LOCK WASHER A8	2	2		$0.18
4		242-209	HEX. NUT M8 / TORQUE: 15 NM / 133 IN.LB.	2	2		$0.53
5		840-518	ALLEN SCREW M5X16 / TORQUE: 6 NM / 55 IN.LB.	(1)	(1)		$0.94
6		950-143	GASKET RING A 8X13	(5)	(5)		$4.58
7		956-312	HOSE NIPPLE 3/4	(1)	(1)		$22.75
8		851-327	CLAMP BLOCK	(1)	(1)		$93.11
9		941-785	BANJO BOLT ASSY. / TORQUE: 10 NM / 90 IN.LB.	(1)d	(1)d		$63.18
11		230-150	GASKET RING 10X14	(1)	(1)		$0.99
12		641-733	SLOTTED HEAD SCREW M10X1X8 / TORQUE: 15 NM / 135 IN.LB.	(1)	(1)		$10.21
13		940-872	BANJO BOLT M8X1X27 / TORQUE: 10 NM / 90 IN.LB.	(3)	(3)		$18.86
14		866-716	CABLE TIE 550X8.0	(2)	(2)		$0.63
15		941-780	BANJO BOLT M8X1X17 / TORQUE: 10 NM / 90 IN.LB.	(1)	(1)		$9.98
16-17		956-602	DOUBLE HOSE NIPPLE ASSY.	(1)c	(1)c		$63.66
17		963-820	PILOT JET 35	(1)	(1)		$15.07
18		942-671	HEX. NUT M8	2	2		$1.89
19		651-430	CABLE CLAMP 12/M8	(2)	(2)		$21.68
20		874-911	FUEL HOSE ASSY.	(1)	(1)		$388.37
21		950-141	GASKET RING A 8X13	(6)	(6)		$1.45
22		847-796	DISTANCE SLEEVE 8.4/12/7.5				$10.52
23-26, 27-33		667-355	AIRBOX ASSY.	(1)br	(1)br		$932.00
36-40		667-355	AIRBOX ASSY.	(1)br	(1)br		$932.00
24		860-985	CONNECTING HOSE 35 MM	(2)	(2)		$10.85
25		853-595	CLAMP 59	(4)	(4)		$10.21
26		874-308	DRIP TRAY SET		(1m)		*
26		874-680	DRIP TRAY SET	(1l)	(1l)		$197.64
27		241-440	ADJUSTMENT SCREW M6X0.75	(1)	(1)		$3.85
28		942-541	HEX. NUT M6X0.75 HIGHT 3 MM	(2)	(2)		$1.03
29		851-370	CLAMP 8	(4)	(4)		$4.68
30		842-040	LOCK NUT M6	(1)	(1)		*
31		927-941	WASHER 6.0/12/1	(1)	(1)		$0.66
32		853-010	CABLE CLAMP 32/M6	(1)	(1)		$10.85
33		960-151	RUBBER PUFFER 20X15XM6	(1)	(1)		$58.05
34		240-771	HEX.SCREW M6X10	(1)	(1)		$0.53
35		230-415	SEALING RING A 6X10	(1)	(1)		$1.34
36		860-660	HOSE 4X7	(2)	(2)		$83.75
37		241-847	ALLEN SCREW M5X12	(1)	(1)		$15.59
38		847-740	GRADUATED SLEEVE	(1)	(1)		$15.20
39		827-800	WASHER A 5.5	(1)	(1)		$0.39
40		842-030	LOCK NUT M5	(1)	(1)		$1.63
41		941-853	FUEL LINE CONNECTOR			1T	$18.24
42		956-312	HOSE NIPPLE 3/4	2u	2u		$22.75
		881-980	RETROFIT KIT FLEX. FUEL LINES	1v	1v		$496.81
43		938-030	SPRING	(1)	(1)		*
29		851-370	CLAMP 8			15	$4.68
50		860-982	CONNECTINGHOSE 35 MM			(2)	$10.85
50		860-985	(2)CONNECTING HOSE 35 MM			(2)	$10.85
50-78, 95-96, 99,29		667-574	AIRBOX ASSY.			1bo	*
		667-574	AIRBOX ASSY.			1bo	*
51		667-574	AIRBOX			1	*
52		853-595	CLAMP 59			6	$10.21
53		940-551	HOSE NIPPLE M6 / TORQUE: 3 NM / 26 IN.LB.			2	$16.70
54		242-031	HEX.NUT BM6			1	$0.81
55		940-554	HOSE NIPPLE M6			1	$52.55
56		240-480	PLUG SCREW 1/8-27NPT			1	$5.22
57		230-415	SEALING RING A6X10			1	$1.34

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
58		641-071	HEX.SCREW M6X6-8.8			1	$1.36
59		430-205	O-RING 6.4X1.8			1	$5.01
60		244-216	WASHER 6.2/14/1			1	*
61		840-391	ALLEN SCREW M6X14			1	$0.94
62		960-151	RUBBER PUFFER 20X15XM6			1	$58.05
63		853-010	CABLE CLAMP 32/M6			1	$10.85
64		927-941	WASHER 6.0/12/1			3	$0.66
65		842-040	LOCK NUT M6			1	*
66-73		860-660	HOSE 4X7			AR	$83.75
66			IN A ROLL, HOSE 270 MM			1no	*
67			IN A ROLL, HOSE 310 MM			2p	*
67			IN A ROLL, HOSE 235 MM			1no	*
68			IN A ROLL, HOSE 110 MM			1p	*
68			IN A ROLL, HOSE 40MM			1no	*
69			IN A ROLL, HOSE 130 MM			1no	*
69			IN A ROLL, HOSE 180 MM			1no	*
70			IN A ROLL, HOSE 75 MM			2p	*
71			IN A ROLL, HOSE 1000 MM			ARp	*
72			IN A ROLL, HOSE 160 MM			1no	*
73			IN A ROLL, HOSE 130 MM			1p	*
73			IN A ROLL, HOSE 190 MM			1no	*
74 - 78		966-060	SPIRAL HOSE 6.5X8.5X0.6 AR AR			AR	*
74			IN A ROLL SPIRAL HOSE, 270 MM			1no	*
75			IN A ROLL SPIRAL HOSE, 225 MM			1no	*
76			IN A ROLL SPIRAL HOSE, 130 MM			1no	*
77			IN A ROLL SPIRAL HOSE, 165 MM			1no	*
78			IN A ROLL SPIRAL HOSE, 110 MM			1no	*
79		860-984	AIR INTAKE HOSE ± 3 MM			1	$53.89
80		887-130	FUEL PRESSURE REGULATOR ASSY.			1	$159.00
81		945-751	LOCK WASHER A6			2	$0.16
82		241-186	HEX.SCREW M6X16 / TORQUE: 8 NM / 70 IN.LB.			2	$0.48
83		966-435	RESISTANCE THERMOMETER / TORQUE: 15 NM / 135 IN.LB. TORQUE: 15 NM / 135 IN.LB.			1e	$254.19
83		966-430	RESISTANCE THERMOMETER / TORQUE: 15 NM / 135 IN.LB.			1f	$211.40
84		874-290	FUEL HOSE ASSY. 1/3			1h	$165.18
85		874-280	FUEL HOSE ASSY. 2/4			1g	$158.05
86		230-150	GASKET RING 10X14			9	$0.99
87		940-874	BANJO BOLT M10X1X19 / TORQUE: 15 NM / 135 IN.LB.			4	$13.35
88		956-314	HOSE NIPPLE 4/6			2	$22.72
89		851-115	CABLE CLAMP 5/M5			2	$5.44
90		241-841	ALLEN SCREW M5X12			2	$0.66
91		842-030	LOCK NUT M5			2	$1.63
92		874-310	3-WAY SOLENOID VALVE 12V			1	$402.59
92		874-313	3-WAY SOLENOID VALVE ASSY.			1s	$111.80
92		881-040	3-WAY SOLENOID VALVE RETROFIT KIT			1s	$241.54
93		840-391	ALLEN SCREW M6X14			2	$0.94
94		874-270	T-PEACE 6-6-6			2	$9.26
95		951-595	CLAMP 7.3			3	*
96		825-735	FILTER / WATER TRAP			1i	$16.07
97		996-738	FUEL PUMP			2j	$362.83
98		874-680	DRIP TRAY SET			(1l)	$197.64
99		861-931	ADAPTOR			1q	$198.42
100		640-181	SLOTTED HEAD SCREW M4X7			2k	$0.39
101		966-482	THROTTLE VALVE POSITION SENSOR			1q	$273.74
102		244-073	WASHER 4.3			2k	$0.18
103		841-030	COMBINED SCREW M4X22			2k	$1.97
104	N	940-879	BANJO BOLT M10X1X30			(1w)	$23.24
105	N	956-314	HOSE NIPPLE 4/6			(1w)	$22.72

a MARKED WITH S/N. INCLUSIVE SUCTION- AND PRESSURE LINE
b MARKED WITH S/N
c WITH FUEL PRESSURE GAUGE CONNECTION; AT CONVERSION FROM 956312 TO 956602 REMOVE JET 963820 FROM BANJO BOLT.
d MARKED WITH YELLOW DOT
e NOT FOR TCU- PART. NO. 966470
f ONLY FOR TCU- PART NO. 96647
g FOR CYLINDER 2/4
h FOR CYLINDER 1/3
i USED AS WATER TRAP
j WITH ATTACHEMENT KIT, MARKED WITH S/
k ALSO INCLUDED IN CARBURETOR FOR 914 CYL. 2/4.
l DRIP TRAY FOR AIR-BOX PART NO.: 867758, 667162 AND 667167
m DRIP TRAY FOR AIR-BOX PART NO.: 867758
n FOR USE OF AIR-BOX PART NO.: 667162 / SEE THEREFORE SI-914-013 CURRENT ISSUE
o FOR USE OF AIR-BOX PART NO.: 667167 SEE THEREFORE SI-914-015
p FOR USE OF AIR-BOX PART NO.: 867753
q NEW ADAPTER FLANGE USE ONLY TOGETHER WITH THROTTLE VALVE POSITION SENSOR. SEE THEREFORE SI-25-1997
r FOR RETROFITTING FOLLOWING SERVICE BULLETIN HAS TO BE NOTICED SB-912-044 / CURRENT ISSUE
s SEE SERVICE INSTRUCTION SI-914-022 CURRENT ISSUE
t OPTIONAL FOR STEEL FUEL LINES
u OPTIONAL WITH CONNECTION FLEXIBLE FUEL LINES
v SEE SI 912-020
w OPTIONAL FOR FUEL PRESSURE GAUGE CONNECTION

*** CALL FOR PRICING!**





carburetor calibration table for 912/914 series:

	912 UL/A/F		912 ULS/ULSF R/S		914 U L/F	
Version	59,6 kW (81 hp)		73.5 kW (100 hp)		84.5 kW (115 hp)	
	Carburetor part no.		Carburetor part no.		Carburetor part no.	
Location	1/3	2/4	1/3	2/4	1/3	2/4
airbox part no. 867756 BING no. main jet needle position	**892510** 64/32/416B-02 HD 155 [11] NP 3	**892515** 64/32/417B-02 HD 155 [11] NP 3				
airbox part no. 667355 BING no. main jet needle position	**892500** 64/32/416A-02 HD 158 [11] NP 3	**892505** 64/32/417A-02 HD 158 [11] NP 3	**892530** [4] 64/32/421A-02 HD 155 NP 3	**892535** [5] 64/32/422A-02 HD 155 NP 3		
airbox filter BING no. main jet needle position	**892500** [2] 64/32/416A-02 HD 158 NP 3	**892505** [3] 64/32/417A-02 HD 158 NP 3				
airbox part no. 867753 BING no. main jet needle position					**887093** [6] 64/32/418/01 HD 160 [10] NP 2	**887098** [7] 64/32/419/01 HD 164 [10] NP 2
airbox part no. 667162 BING no. main jet needle position					**887093** 64/32/418/01 HD 160 [10] NP 1	**887098** 64/32/419/01 HD 164 [10] NP 2
airbox part no. 667167 BING no. main jet needle position					**892520** [8] 64/32/418A-05 HD 156 [10] NP 2	**892525** [9] 64/32/419A-05 HD 158 [10] NP 2
airbox part no. 667574 BING no. main jet needle position					**892520** 64/32/418A-05 HD 156 [10] NP 2	**892525** 64/32/419A-05 HD 158 [10] NP 2
needle jet	ND 2,72		ND 2,70		ND 2,72	
diffusor	961200		961202		961200	
jet needle	961215					
idle jet	LD 35					
cold start jet	SD 85 [1]					
float needle	261706					
idle mixture screw	LS 1,5					

BING CONSTANT SPEED DEPRESSION CARBURETOR - SINGLE PARTS

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
AIRFILTER		892-500	CONSTANT DEPRESSION CARB: ASSY 1/3	1			$993.60
		892-505	CONSTANT DEPRESSION CARB: ASSY 2/4	1			$996.86
AIRBOX	S.V.	888-804	CONSTANT DEPRESSION CARB: ASSY 1/3	(1)i			$1,181.50
	S.V.	888-809	CONSTANT DEPRESSION CARB: ASSY 2/4	(1)i			$1,181.50
	N	892-500	CONSTANT DEPRESSION CARB: ASSY 1/3	(1)p			$993.60
	N	892-505	CONSTANT DEPRESSION CARB: ASSY 2/4	(1)p			$996.86
AIRBOX OR AIRFILTER		892-530	CONSTANT DEPRESSION CARB: ASSY 1/3		1		$995.00
		892-535	CONSTANT DEPRESSION CARB: ASSY 2/4		1		$995.00
AIRBOX		887-093	CONSTANT DEPRESSION CARB. ASSY 1/3			1e	$1,147.39
		887-098	CONSTANT DEPRESSION CARB. ASSY 2/4			1f	$1,426.36
		892-520	CONSTANT DEPRESSION CARB. ASSY 1/3			1e	$1,359.90
		892-525	CONSTANT DEPRESSION CARB. ASSY 2/4			1f	$1,690.53

a FOR CYLINDER 1/3
b FOR CYLINDER 2/4
c CARBURETOR HOUSING NOT AVAILABLE AS SPARE PART. USE CARBURETOR ASSY
d OPTIONAL FOR STEEL FUEL LINES
e 64/32/398F/06, FOR CYLINDER 1/3
SEE THEREFORE SI-914-015 CURRENT ISSUE
f 64/32/399F/06, FOR CYLINDER 2/4 INCL. THROTTLE POTENTIOMETER - SEE CHAPTER 21
SEE THEREFORE SI-914-015 CURRENT ISSUE
g REFER TO SERVICE INFORMATION SI-03-1998 CURRENT ISSUE
h WITH CLEARENCE FOR O-RING (USE ONLY TOGETHER WITH O-RING POS. 74 (PART NO. 950430)
i FOR AIR-BOX PART NO.: 867758 / PART NO. 867756
SEE THEREFORE SB-912-044
j SEE THEREFORE SI-912-012 / SI-914-014 CURRENT ISSUE
k FOR USE OF AIR-BOX PART NO.: 667167 / SEE THEREFORE SI-914-015 CURRENT ISSUE
FROM ENGINE SERIAL NO. 914 F 4,420.409 / 914 UL 4,418.634
l FOR USE OF AIR-BOX PART NO.: 867753 OR 667162 SEE THEREFORE SI-914-013 AND SI-914-002 CURRENT ISSUE
m CONSTANT DEPRESSION CARBURETOR WITHOUT FUEL SUPPLY LINE
n PACKAGE INCLUDING TWO FLOATS
o SPECIAL JETTING ACCORDING TO INSTRUCTIONS OF THE MANUFACTURER
p FOR AIR-BOX PART NO.: 667355 SEE THEREFORE SB-912-044
r AT CARBURETOR 1/3 ONLY 1 PIECE

CARB - SINGLE PARTS

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1			CARBURETOR HOUSING	1c	1c	1c	*
2		961-200	DIFFUSER	1		1	$14.74
2		961-202	DIFFUSER		1		$24.18
3		261-607	NEEDLE JET 2.72	1		1	$14.50
3		261-608	NEEDLE JET 2.70		1		$14.50
4		430-800	O-RING 8X2	1	1		$5.25
5		827-160	SHIM	1	1		$1.63
6		963-143	IDLE JET 35	1	1	1	$24.75
7		831-713	O-RING 3.2X1.8	2j	2j	2j	$3.90
8		261-708	FLOAT NEEDLE VALVE W. VITON TIP	1 j	1 j	1 j	$59.90
9		261-710	FLOAT NEEDLE CLIP	1	1	1	$1.53
10		861-184	FLOATS PAIR	1n	1n	1n	$107.25
11		861-192	FLOAT BRACKET	1	1	1	$43.31
12		929-702	PIN	1	1	1	$2.10
13		830-727	GASKET	1	1	1	$12.75
14		963-180	SPRING CLIP	1	1		$7.95
15		961-230	CARBURETOR PISTON	1	1	1	$194.85
16		961-215	JET NEEDLE	1	1	1	$13.00
17		945-785	CIRCLIP	1	1	1	$1.81
18		961-293	FIXATION SCREW	1h	1h	1h	$19.23
19		861-115	DIAPHRAGM	1	1	1	$88.75
20		961-240	RETAINING RING	1	1	1	$35.23
21		841-210	COMBINED SCREW M4X12	4	4	4	$1.87
22		938-365	THROTTLE VALVE SPRING	1	1	1	$20.13
23		961-250	CHAMBER TOP	1	1	1	$150.88
24		841-340	COUNTERSUNK SCREW M5X12	1	1	1	$0.99
25		847-910	DISTANCE SLEEVE	1	1	1	$20.06
26		838-242	SPRING	1	1	1	$13.98
27		640-250	PHILLIPS PAN-HEAD SCREW M5X20	1	1	1	$0.63
28		961-280	CHOKE HOUSING	1	1	1	$36.40
29		961-272	CHOKE VALVE ASSY. 1/3	1a,j	1a,j	1a,j	*
29		961-277	CHOKE VALVE ASSY. 2/4	1b,j	1b,j	1b,j	*
30		950-420	O-RING 5X1.5	1	1	1	$6.50
31		950-030	GASKET	1	1	1	$4.80
32		841-360	PHILLIPS HEAD SCREW M4X14	4	4	4	$1.39
33		848-240	CHOKE LEVER INSIDE	1	1	1	$2.62
34		848-245	CHOKE LEVER OUTSIDE	1	1	1	$6.53
35		845-035	SPRING WASHER 8.3/13.6/0.4	2	2	2	$5.86
36		942-290	HEX.NUT M8X1 / TORQUE: 6-7 NM / 55-62 IN.LB.	2	2	2	$2.33
37		938-287	RETURN SPRING	1	1	1	$11.88
38		950-020	O-RING 6X1.9	1	1	2r	$4.85
39		963-666	THROTTLE VALVE	1	1	1	$14.30
40		941-200	SLOTTED HEAD SCREW M3X6	2	2	2	$1.85
41		961-262	CABLE SUPPORT 1/3	1a,j	1a,j	1a,j	$28.04
41		961-267	CABLE SUPPORT 2/4	1b,j	1b,j	1b,j	$30.43
42		241-212	SLOTTED HEAD SCREW M4X10	2	2	2	$0.48
43		963-162	THROTTLE VALVE STOP SCREW	1	1	1	$6.61
44		848-232	STOP LEVER 2/4	1b	1b	1b	$7.88
44, 7		848-230	STOP LEVER 1/3	1a	1a	1a	$7.88
45, 74		963-026	THROTTLE VALVE LEVER 1/3	1a,j	1a,j	1a,j	$47.09
45, 74		963-021	THROTTLE VALVE LEVER 2/4	1b,j	1b,j	1b,j	$47.09
46		241-847	ALLEN SCREW M5X12	1	1	1	$15.59
47		847-740	GRADUATED SLEEVE	1	1	1	$15.20
48		827-800	WASHER A 5.5	1	1	1	$0.39
49		842-030	LOCK NUT M5	2	2	2	$1.63
50		938-289	RETURN SPRING	1	1	1	$13.60
51		961-222	IDLE MIXTURE SCREW	1	1	1	$31.62
52		239-463	COMPRESSION SPRING	1j	1j	1j	$2.33
53		941-740	SLOTTED HEAD SCREW M3.5X5	1	1	1	$1.39
54		950-141	GASKET RING A 8X13			1	$1.45
55		941-853	FUEL LINE CONNECTOR / TORQUE: 10 NM / 90 IN.LB.			1	$18.24
56		851-071	SUPPORT 1/3	1a	1a	1a	$46.52
56		851-074	SUPPORT 2/4	1b	1b	1b	$46.52
57		240-761	SLOTTED HEAD SCREW M5X16	1	1	1	$0.53
58		241-440	ADJUSTMENT SCREW M6X0.75	1	1	1	$3.85
59		942-541	HEX. NUT M6X0.75 HIGHT 3 MM	3	3	3	$1.34
60		861-640	BENT TUBE ASSY.	1	1	1	$32.65
61		256-035	AIR VENT LINE 120 MM	1	1		$2.75
62		963-130	MIXING TUBE	1	1		$17.50
62		963-135	MIXING TUBE			1	$64.97
63		268-985	MAIN JET 160		1o	1l	$8.95
63		268-993	MAIN JET 164			1b,l	$15.92
63		268-984	MAIN JET 155	(1)i	1		$8.85
63		268-997	MAIN JET 156			1k	$16.22
63		268-996	MAIN JET 158	1		1b,k	$9.50
64-65		963-176	FLOAT CHAMBER ASSY. 1/3			1	$102.81
64-65		963-178	FLOAT CHAMBER ASSY. 2/4			1	$102.81
64-65		963-230	FLOAT CHAMBER ASSY. 1/3	1	1		$104.71
64-65		963-232	FLOAT CHAMBER ASSY. 2/4	1	1		$104.72
65		268-758	JET 85	1	1	1	$15.07
65		268-762	JET 105	(1)g	(1)g	(1)g	$15.07
65		268-857	JET 120	(1)g	(1)g	(1)g	$13.95
65		268-763	JET 130	(1)g	(1)g	(1)g	$13.95
65		268-765	JET 140	(1)g	(1)g	(1)g	$13.95
66		631-771	O-RING 15.6X1.78			1j	$12.38
66-67		963-281	ATTACHMENT SCREW ASSY. / TORQUE: 5.5 NM / 48 IN.LB.			1j	$108.55
68		963-992	THROTTLE SHAFT	1	1	1a	$37.97
69		963-994	THROTTLE SHAFT (LONG)			1b	$93.11
70		950-430	O-RING 2.5X1.5-N	1	1	1	$2.68
71		942-290	HEX. NUT M8X1 / TORQUE: 5 NM / 44 IN.LB.	2	2	2	$2.33
72		845-035	SPRING WASHER 8.3/13.6/0.4	2	2	2	$5.86
73		963-010	SLEEVE	1	1	1	$6.90
74		963-015	SLEEVE	1	1	1	$2.95

*** CALL FOR PRICING!**

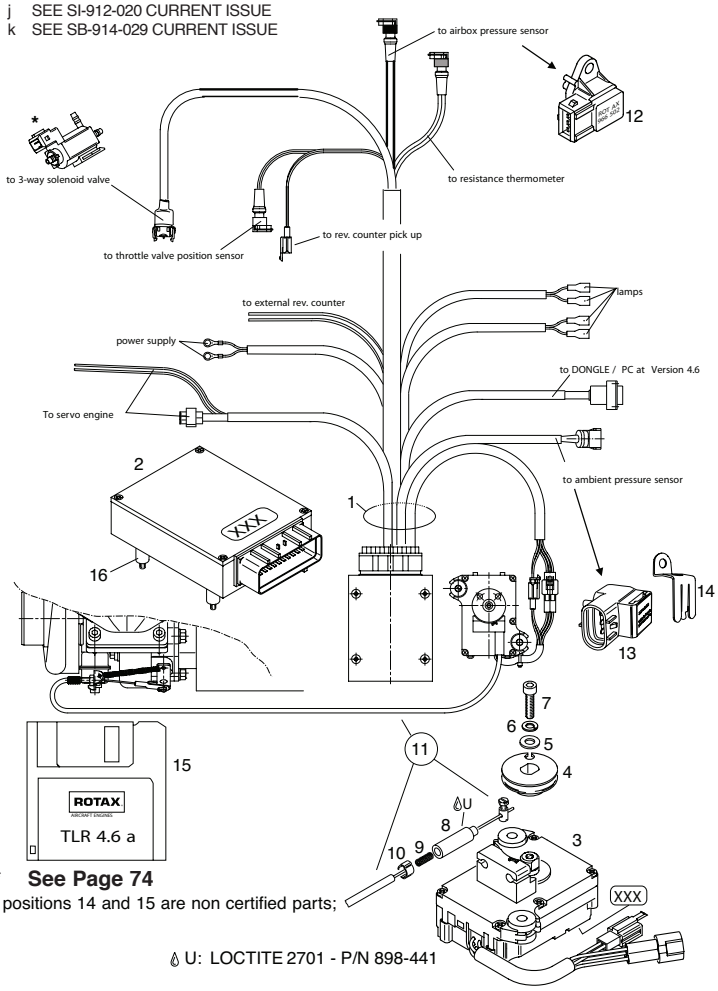
RTX

WATER CIRCUIT, EXPANSION TANK

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1-5		922-250	WATER TUBE	ARh	ARh	ARh	$58.19
1		922-362	WATER TUBE 280 MM	2a	2a	2a	*
2		922-360	WATER TUBE 180 MM	2b	2b	2b	$58.19
3		922-361	WATER TUBE 285 MM	1c	1c	1c	$58.19
4		922-363	WATER TUBE 200 MM	1f	1f	1f	$58.19
5		922-364	WATER TUBE 85 MM	1g	1g	1g	$58.19
6		922-192	FORM HOSE 90	1e	1e	1e	$50.48
7		860-650	PROTECTION TUBE (HEAT RESISTANT)			ARh	$212.59
8		851-645	SPRING TYPE CLAMP 25	16J	16J	16J	$6.81
9 -12		922-665	EXPANSION TANK ASSY.	1J	1J	1J	$357.95
10		922-070	RADIATOR CAP WITH GASKET 1.2 BAR	1J	1J	1J	$44.70
11		897-506	WARNING LABEL	1	1	1	$5.44
12		860-826	RUBBER PLATE	1	1	1	$11.37
13		922-268	WATER DISTRIBUTOR ASSY.	(1I)	(1I)	(1I)	$292.16
14		922-543	PROTECTION HOSE 30 MM	1D	1D	1D	$12.47
15		898-490	WARNING LABEL EVANS COOLANT	ARk	ARk	ARk	$0.29

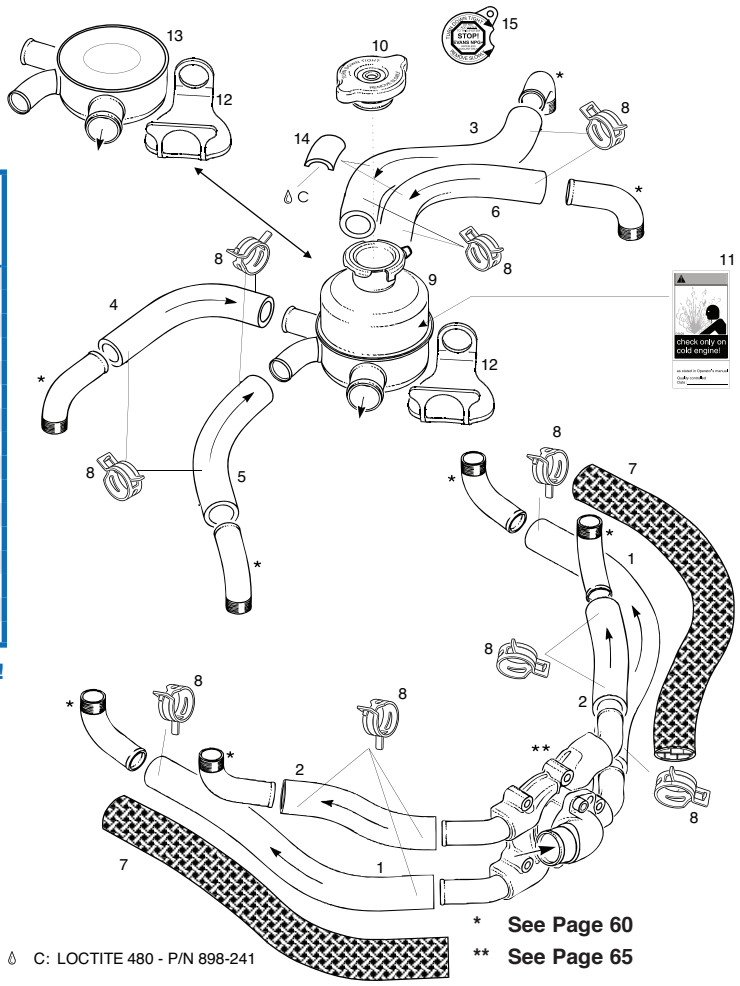
*** CALL FOR PRICING!**

a SUPPLY TO CYLINDER 1 AND 2
b SUPPLY TO CYLINDER 3 AND 4
c DISCHARGE CYLINDER 1
d AS SCRAB-PROTECTOR FOR VERSION 3
e DISCHARGE CYLINDER 3
f DISCHARGE CYLIDER 2
g DISCHARGE CYLINDER 4
h IN A ROLL USE.
i EXPANSION TANK FOR RADIATOR INSTALLATION ABOVE ENGINE
j SEE SI-912-020 CURRENT ISSUE
k SEE SB-914-029 CURRENT ISSUE



* See Page 74
positions 14 and 15 are non certified parts;

U: LOCTITE 2701 - P/N 898-441



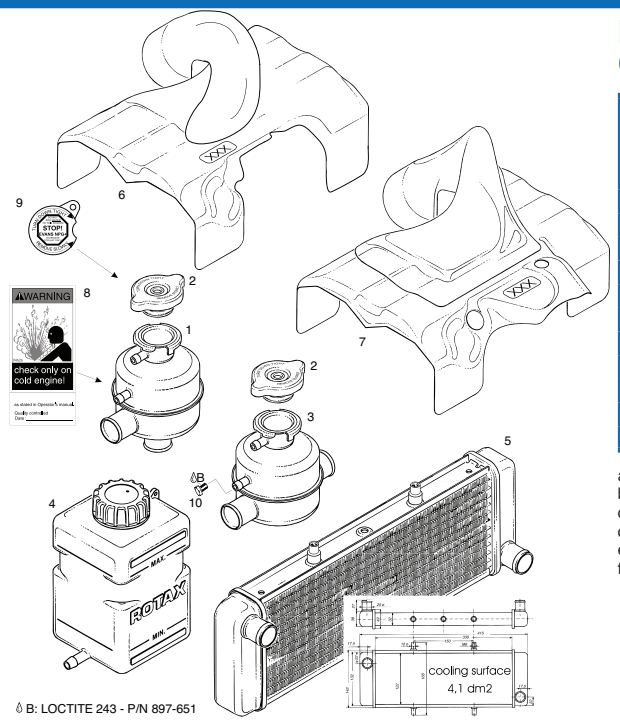
C: LOCTITE 480 - P/N 898-241

* See Page 60
** See Page 65

TURBOCHARGER CONTROL UNIT

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		966-494	WIRING HARNESS			1D	$546.21
2		966-741	TURBOCHARGER CONTROL UNIT (TCU) 4.6			1A	$2,742.51
3		295-410	SERVO MOTOR			1B	$455.07
4		280-086	ROPE SHEAVE			1	$56.54
5		926-180	WASHER A 5.2X14.8X1.5			1	$0.57
6		945-750	LOCK WASHER A5			1	$0.18
7	S.V.	240-181	ALLEN SCREW M5X20 / TORQUE: 6 NM / 53 IN.LB.			1	$0.48
7	N	441-341	ALLEN SCREW M5X20 / TORQUE: 6 NM / 53 IN.LB.			1	$0.48
8		847-881	CABLE RETAINER			1	$16.84
9		239-015	COMPRESSION SPRING 16.9			1	$4.07
10		853-845	CLAMP 5-7 MM			1	$4.72
11		897-941	CABLE BOWDEN ASSY.			1	$76.10
12		966-502	AIRBOX PRESSURE SENSOR			1C	$234.67
13		274-051	AMBIENT PRESSURE SENSOR			1D	$254.86
14		924-990	HOLDING BRACKET FOR 274051			1D	$7.02
15	N.A.	966-672	MONITORING-PROGRAM			1E	$19.19
16		660-771	RUBBER BUFFER 10X15XM4			4	$27.78
17		666-012	CONNECTOR CABLE			1G	$84.88

a VERSION 4.6; USED FROM FOLLOWING ENGINE S/N NUMBERS IN SERIAL PRODUCTION:
914 F: VON / FROMS/N 4,420.200
914 UL: VON / FROM S/N 4,417.849
RETROFIT AT OLDER ENGINES POSSIBLE ACCORDING SB/SI
MARKED WITH S/N
b MARKED WITH S/N
c AIRBOX PRESSURE SENSOR
d SEE SERVICE INSTRUCTION SI-914-022 CURRENT ISSUE
e ONLY FOR PART NO. 966741 (VERSION 4.6)
g CONNECTOR CABLE, WIRING HARNESS PART.NO. 966492
WITH SENSOR PART.NO. 274051 SEE SERVICE INSTRUCTION SI-914-022 CURRENT ISSUE



B: LOCTITE 243 - P/N 897-651

RADIATOR, EXPANSION TANK, OVERFLOW BOTTLE, COOLING AIR BAFFLE

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1-2		922-312	EXPANSION TANK ASSY. 90 DEGR.,	(1)	(1)	(1)	$134.00
2		922-070	RADIATOR CAP WITH GASKET 1.2 BAR	1c	1c	1c	$44.70
2-3		922-317	EXPANSION TANK ASSY. 180 DEGR.,	(1)	(1)	(1)	$134.00
4		922-327	OVERFLOW BOTTLE WITH CAP	(1)d	(1)d	(1)d	$39.99
5		997-080	RADIATOR - STANDARD	(1)f	(1)f	(1)f	$464.58
5		997-080	RADIATOR - ADVANCED	(1)f	(1)f	(1)f	$464.58
6		975-796	COOLING AIR BAFFLE	(1)a	(1)a	(1)a	$786.00
7		975-796	COOLING AIR BAFFLE	(1)b	(1)b	(1)b	$786.00
8		897-506	WARNING LABEL	1	1	1	$5.44
9		898-490	WARNING LABEL EVANS COOLANT	(AR)	(AR)	(AR)	$0.29
10		641-071	HEX.SCREW ISO M6X6	AR	AR	AR	$1.36

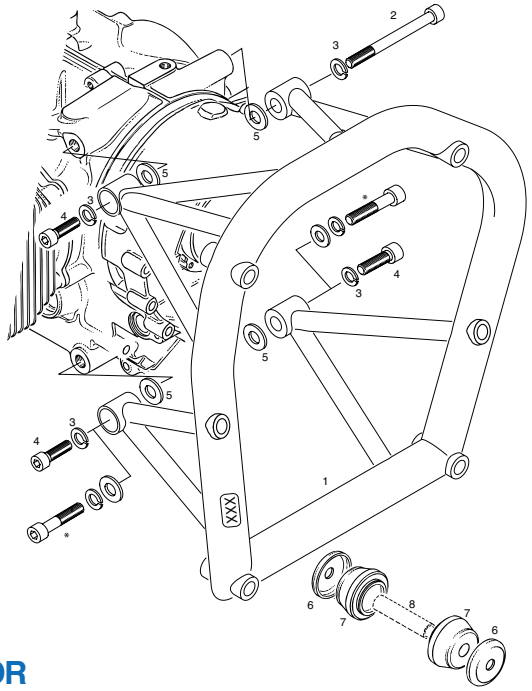
a SHORT VERSION; MARKED WITH S/N
b EDITION DIAMOND MARKED WITH S/N
c SEE SERVICE INSTUCTION SI-912-020 / SI-914-022 CURRENT ISSUE
d SEE SERVICE BULLETIN SB-912-039 SB-914-025 CURRENT ISSUE
e SEE SERVICE BULLETIN SB-912-043 SB-914-029 CURRENT ISSUE
f SAME OUTLINE DIMENSIONS AND BRACKETS, 997080 WITH IMPROVED COOLING PERFORMANCE.

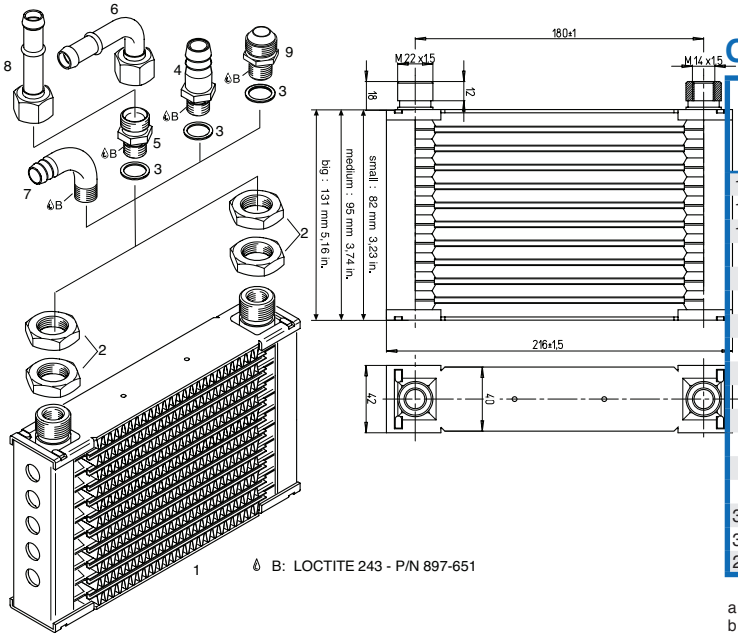
ENGINE SUSPENSION FRAME

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		886-561	ENGINE SUSPENSION FRAME ASSY.	(1a)	(1a)	1a	$986.00
2		941-487	ALLEN SCREW M10X110 / TORQUE: 40 NM / 30 FT.LB.	(1)	(1)	1	$6.31
3		945-753	LOCK WASHER A10	(4)	(4)	2	$0.27
4		840-947	ALLEN SCREW M10X35 / TORQUE: 40 NM / 30 FT.LB.	(3)	(3)	1	$4.02
5		927-952	THRUST WASHER 10.1/20/0.5	(AR)	(AR)	AR	$4.54
5		927-953	THRUST WASHER 10.1/20/1.0	(AR)	(AR)	AR	$4.68
6		944-240	CUP WASHER	(8)	(8)	(8)	$58.50
7		860-690	SHOCK MOUNT	(8)	(8)	(8)	$51.80
6 - 7		860-695	SHOCK MOUNT SET	(1)	(1)	(1)	$1,020.47
8			STRUT	(AR)	(AR)	(AR)	*
9		440-107					$1.89
10		641-071	HEX.SCREW ISO M6X6	AR	AR	AR	$1.36

a SEE ALSO SERVICE BULLETIN SB-912-028 / SB-914-016 CURRENT ISSUE

*** CALL FOR PRICING!**





B: LOCTITE 243 - P/N 897-651

OIL RADIATOR

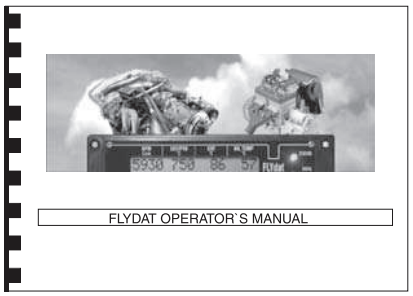
NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1 - 4		886-033	OIL RADIATOR-SET	(1)a			$214.00
1 - 4		886-033	OIL RADIATOR-SET	(1)b	(1)b		$214.00
1 - 4		886-036	OIL RADIATOR-SET	(1)c	(1)c	(1)c	$229.00
1		886-033	OIL RADIATOR	(1)a			$214.00
1		886-033	OIL RADIATOR	(1)b	(1)b		$214.00
1		886-036	OIL RADIATOR	(1)c	(1)c	(1)c	$229.00
2		242-871	HEX. NUT M22X1.5	(4)	(4)	(4)	$14.02
3		230-387	GASKET RING A 14.2/18/2	(2)	(2)	(2)	$1.47
4		840-461	NIPPLE 13.2/9.5-M14X1.5 / TORQUE: 22 NM / 195 IN.LB.	(2)	(2)	(2)	*
5		956-576	ADAPTOR M18X1.5/M14X1.5 / TORQUE: 35 NM / 26 FT.LB.	(2)	(2)	(2)	$31.00
6		956-580	BENT SOCKET ASSY. / TORQUE: 25 NM / 18 FT.LB.	AR	AR	AR	*
7		924-585	ANGULAR TUBE M14X1.5 / TORQUE: 22 NM / 195 IN.LB.	AR	AR	AR	$70.99
8		956-610	HOSE NIPPLE WITH UNION NUT / TORQUE: 25 NM / 18 FT.LB.	AR	AR	AR	$19.96
9		956-643	ADAPTOR 3/4-16 UNF/ M14 X 1.5 / TORQUE: 35 NM / 26 FT.LB.	(2)	(2)	(2)	$69.12
3,5,8		956-615	SCREW CONNECTION SET STRAIGHT	(1)	(1)	(1)	$110.56
3,5,6		956-585	SCREW CONNECTION SET BENT	(1)	(1)	(1)	$96.64
2,3,9		956-645	SCREW CONNECTION SET UNF	(1)	(1)	(1)	$110.56

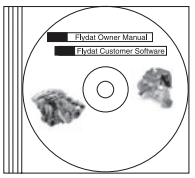
a COOLING AREA 125 CM2 (19.38 SQ IN)
b COOLING AREA 142 CM2 (22 SQ IN)
c COOLING AREA 234 CM2 (36.27 SQ IN)

*** CALL FOR PRICING!**

RTX

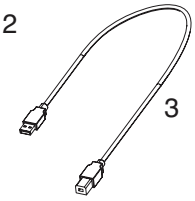
FOR FLYDAT PART NO. 886-858:





1

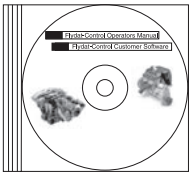
2



3

FOR FLYDAT PART NO. 886-857:



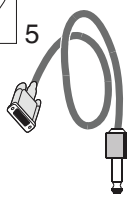


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6

4

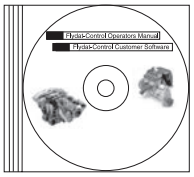


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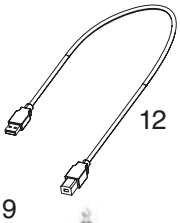
FOR FLYDAT PART NO. 886-855/886-856:



10



9



12



8



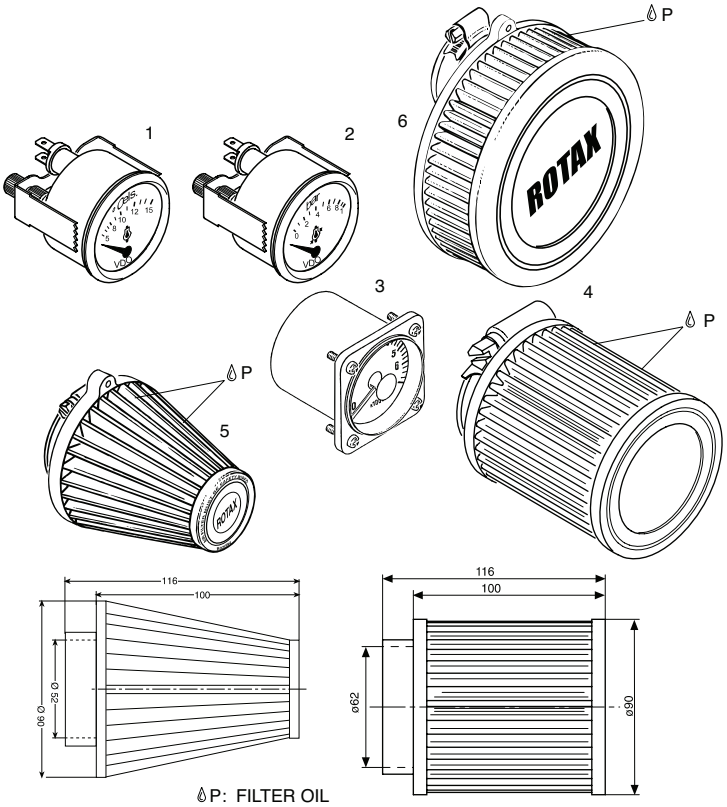
11

FLYDAT PARTS
CHAPTER INCLUDES NON-CERTIFIED PARTS

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1	N.A.		CD-ROM, MANUAL, SOFTWARE	1a	1a	1a	NLA
2	N.A		OPERATORS MANUAL	1a	1a	1a	NLA
3	N.A.		COMMUNICATION CABLE USB 2.0 A TO B	1a	1a	1a	NLA
4	N.A.		DISQUETTE 3 1/2" MANUAL A. SOFTWARE	1b	1b	1b	NLA
5	N.A.		CD-ROM, MANUAL, SOFTWARE	1b	1b	1b	NLA
6	N.A.		OPERATORS MANUAL	1b	1b	1b	NLA
7		898-380	PC-CONNECTING CABLE	1	1	1	$786.00
8-12		891-315	FLYDAT-MONITORING-SET	1	1	1	$786.00
8-12			FLYDAT-COMMUNICATION-SET	1d	1d	1d	*
8	N.A.		DISQUETTE 3 1/2" MANUAL A. SOFTWARE	1c	1c	1c	NLA
9	N.A.		CD-ROM, MANUAL, SOFTWARE	1c	1c	1c	NLA
10	N.A.		OPERATORS MANUAL	1c	1c	1c	NLA
11	N.A.		FLYDATCONTROL UNIT	1c	1c	1c	NLA
12	N.A.		COMMUNICATION CABLE USB 2.0 A TO B	1c	1c	1c	NLA

a NOT AVAILABLE AS SPARE PART. IS IN THE SCOPE OF SUPPLY OF THE FLYDAT ASSY. PART NO. 886858
b NOT AVAILABLE AS SPARE PART. IS IN THE SCOPE OF SUPPLY OF THE FLYDAT ASSY. PART NO. 886857
c NOT AVAILABLE AS SPARE PART. IS IN THE SCOPE OF SUPPLY OF THE FLYDAT MONITORING SET
d ONLY AVAILABLE FOR AUTHORIZED DISTRIBUTORS

*** CALL FOR PRICING!**

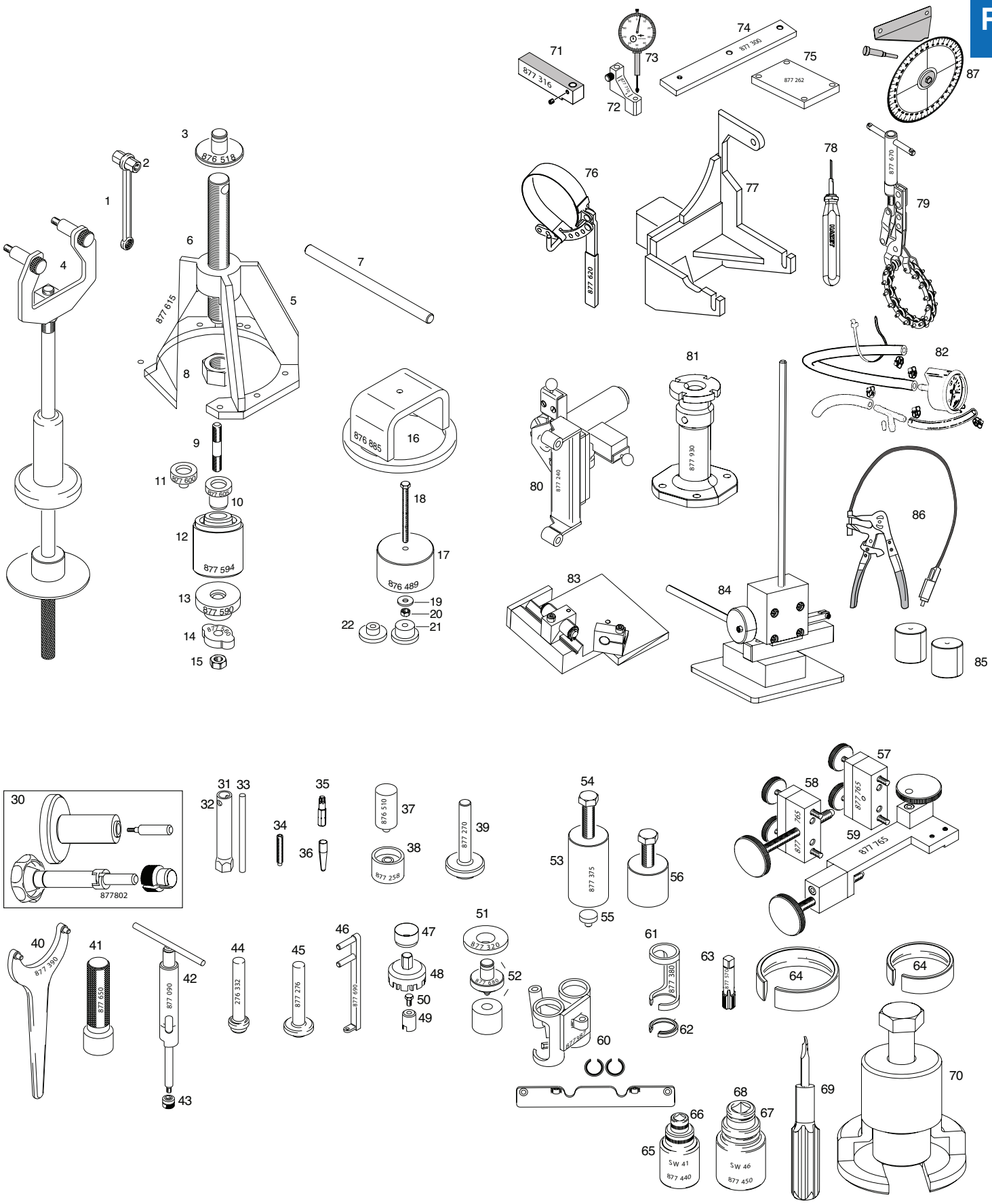


INSTRUMENTS, INTAKE FILTER
CHAPTER INCLUDES NON-CERTIFIED PARTS

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		956-525	TEMPERATURE GAUGE 50-150 DEG.	(1)a	(1)a	(1)a	$349.46
2		956-520	PRESSURE GAUGE 0-10 BAR	(1)b	(1)b	(1)b	$349.46
3		966-408	REV. COUNTER 0-7000 RPM	(1)d	(1)d	(1)d	$253.99
4		08-04977	AIR FILTER			1	$35.50
5		825-551	AIR FILTER	(2)	(2)		$24.90
6		825-711	AIR FILTER	(2)e	(2)e		$54.75

a FOR OIL TEMPERATURE AND / OR CYLINDER HEAD TEMPERATURE
b FOR OIL PRESSURE
c FOR FUEL PRESSURE
d FOR ENGINE SPEED
e FOLLOWING SERVICE INSTRUCTION HAS TO BE NOTARIZED SI-912-017 CURRENT ISSUE

Prices Subject to Change Without Notice


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876 518
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877 615
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876 510
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877 258
877 270
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877 390
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877 650
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877 090
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276 332
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SW 46
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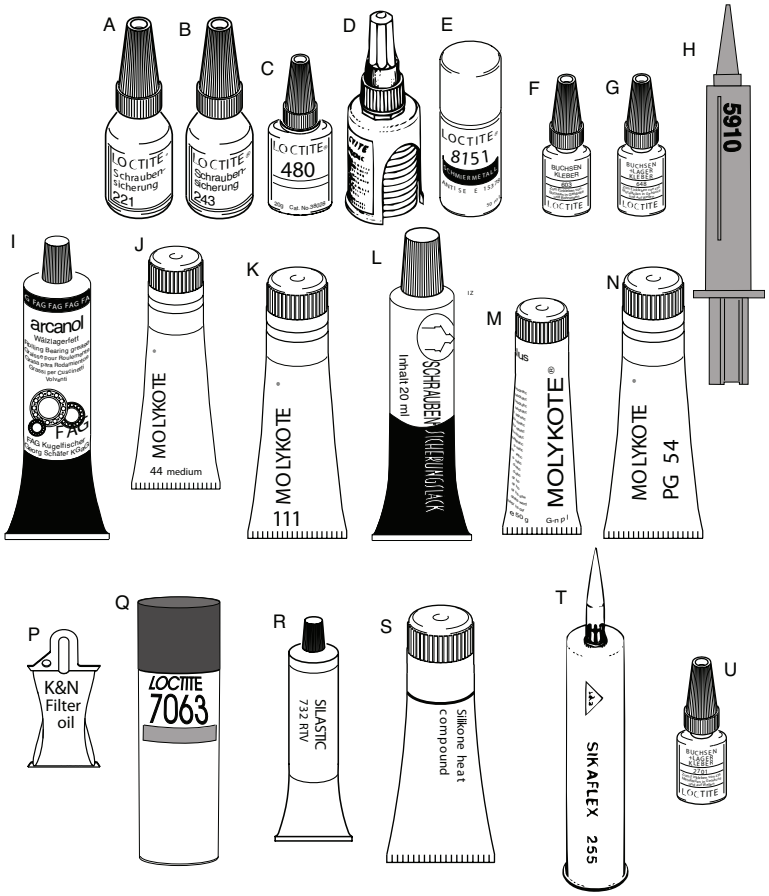
RTX

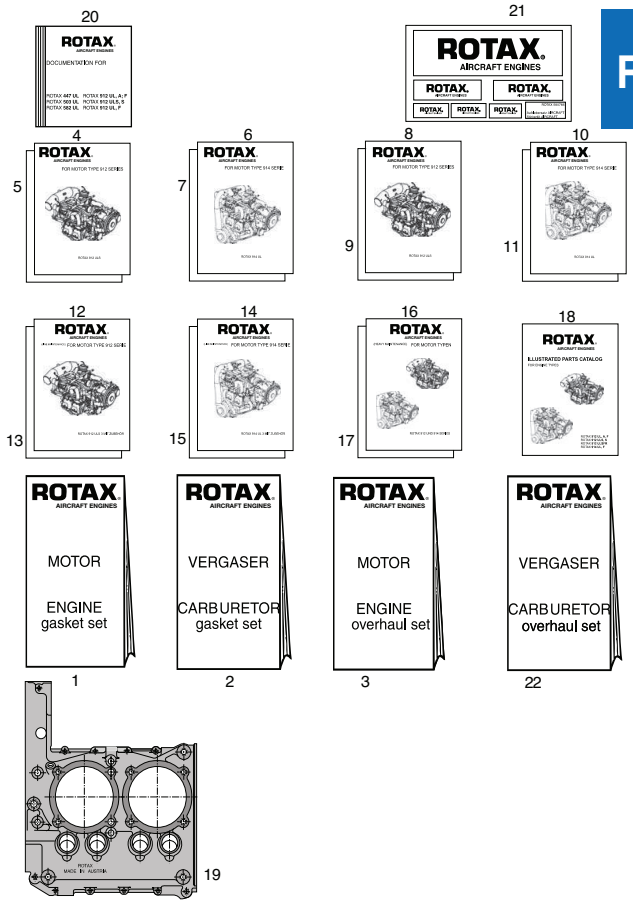
REPAIR TOOLS FOR GEARBOX

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		876-470	RING SPANNER 10/13	1	1	1	$14.09
2		242-661	DISTANCE NUT M8X33	1+	1+	1+	$6.71
3		876-518	INSERTION JIG	1h	1h	1h	$137.74
4		877-660	PULLER ASSY.	1M	1M	1M	$498.15
5,6,7,8		877-615	EXTRACTOR ASSY.	1O	1O	1O	$750.41
6		877-580	PULL-IN SPINDLE M24X1.5	1	1	1	$120.53
7		276-155	BOLT 12X250	1	1	1	$22.68
8		842-585	HEX.SCREW M24X1.5 - 19MM	1	1	1	$15.52
9		941-180	STUD M10X45/20	1P	1P	1P	$5.44
10		877-605	PRESS-OUT MUSHROOM	1Q	1Q	1Q	$60.74
11		877-600	PRESS-OUT MUSHROOM	1R	1R	1R	$63.32
12		877-594	PRESS-IN MUSHROOM	1S	1S	1S	$130.59
13		877-590	PRESS-IN MUSHROOM	1T	1T	1T	$63.32
14		877-561	PULL-OUT PLATE	1U	1U	1U	$143.47
15		242-091	HEX.NUT M10	1V	1V	1V	$1.18
16		876-885	MOUNTING YOKE	1N	1N	1N	$198.34
17-20		876-489	PULLER ASSY.	1W	1W	1W	$120.53
18		941-730	HEX.SCREW M6X80	1	1	1	$2.33
19		827-305	WASHER 6.2/18/2	1	1	1	$5.37
20		242-211	HEX.NUT M6	1	1	1	$0.39
21		877-597	PRESS-IN MUSHROOM	1X	1X	1X	$60.74
22		877-595	PRESS-IN MUSHROOM	1Y	1Y	1Y	$60.74
30		877-802	CIRCLIP INSTALLATION TOOL	1T	1T	1T	$586.02
31		276-282	SPARK PLUG WRENCH 16 MM	1	1	1	$13.02
32		276-280	SPARK PLUG WRENCH 18 MM	1	1	1	$13.02
33		977-420	HAND LEVER 8X130-10	1a	1a	1a	$3.15
34		240-880	THREAD BOLT M8X50	1	1	1	$6.38
35		877-890	TORX-BIT T40	1“	1“	1“	$31.74
36		877-110	GUIDE SLEEVE	1$	1$	1$	$75.82
37		876-510	INSERTION JIG	1b	1b	1b	$50.60
38		877-258	INSERTION JIG	1c	1c	1c	$70.47
39		877-270	INSERTION JIG ASSY.	1d	1d	1d	$83.30
40		877-390	NUT SPANNER A90	1F	1F	1F	$89.73
41		877-650	HANDLE FOR INSERTION JIG	1g	1g	1g	$126.25
42-43		877-091	PISTON PIN EXTRACTOR ASSY.	1u	1u	1u	$415.10
43		877-155	EXTRACTING NUT ASSY.	1v	1v	1v	$76.95
44		276-332	INSERTION JIG ASSY.	1f	1f	1f	$83.30
45		877-276	INSERTION JIG ASSY.	1e	1e	1e	$89.73
46		877-690	CHECK LEVER	1z	1z	1z	$126.25
47		877-360	GUIDE SLEEVE	1o	1o	1o	$35.06
48		877-295	IMPELLER WRENCH ASSY.	1p	1p	1p	$200.91
49-50		877-730	FLOAT LEVEL GAUGE ASSY.	1q	1q	1q	$200.91
50		240-381	HEX. SCREW M6X12	1r	1r	1r	$0.53
51		877-320	PRESS-IN RING	1i	1i	1i	$73.03
52		877-680	INSERTION JIG WITH SLEEVE	1j	1j	1j	$103.32
53-54		877-375	PULLER ASSY.,	1l	1l	1l	$137.74
54		940-755	HEX. SCREW M16X1.5X150	1m	1m	1m	$36.16
55		877-417	PROTECTION MUSHROOM	1k	1k	1k	$36.45
56		877-377	PULLER ASSY.	1n	1n	1n	$121.60
57-59		877-765	CRANK CASE SPLITTING TOOL ASSY.	1Z	1Z	1Z	$1,838.08
60		877-387	VALVE SPRING MOUNTING DEVICE	1y	1y	1y	$516.14
61		877-380	VALVE SPRING MOUNTING DEVICE	1y	1y	1y	$114.78
62		877-790	ADAPTER RING ASSY.	1	1	1	$70.47
63		877-570	TAPPING DRILL M18X1	1#	1#	1#	$149.15
64		876-978	PISTON RING SPANNER 79.5 MM	1w	1w	1w	$129.95
64		876-967	PISTON RING SPANNER 84 MM	1x	1x	1x	$134.86
65-66		877-445	SOCKET WRENCH ASSY. 41X12.5	1G	1G	1G	$339.27
65		877-440	SOCKET WRENCH A/F 41X20	1G	1G	1G	$281.86
66		877-460	REDUCING SOCKET 3/4”-1/2”	1J	1J	1J	$83.30
67		877-450	SOCKET WRENCH 46X20	1K	1K	1K	$323.56
68		877-465	REDUCING SOCKET 1”-3/4”	1L	1L	1L	$154.94
69		976-380	MONOHOOK CIRCLIP REMOVER	1	1	1	$183.69
70		877-190	PRESS-IN TOOL	1ß	1ß	1ß	$70.82
71		877-316	GRADUATED STRAIGHTEDGE ASSY.	1*	1*	1*	$183.63
72		877-710	DIAL GAUGE ADAPTER ASSY.	1	1	1	$214.02
73		876-950	PRECISION DIAL GAUGE	1	1	1	$250.54
74		877-300	ALIGNING PLATE	1	1	1	$80.95
75		877-262	CYLINDER ALIGNING TOOL	1A	1A	1A	$103.32
76		877-620	OIL FILTER WRENCH	1E	1E	1E	$132.02
77		877-245	TRESTLE ADAPTER ASSY.			1C	$2,946.21
78		877-500	PIN RELEASE TOOL	1§	1§	1§	$129.24
79		877-670	CUTTING TOOL	1D	1D	1D	$595.81
80		877-240	TRESTLE ADAPTER ASSY.	1	1		$2,216.25
81		877-930	TRESTLE SUPPORT ASSY.	1	1		$686.45
82		874-231	FUEL PRESSURE GAUGE	1	1	1	$287.29
83		976-140	DIAL GAUGE ADAPTER ASSY.	1-	1-	1-	$686.79
84		976-210	MEASURING FIXTURE	1#	1#	1#	*
85		976-995	CHECK WEIGHT	1-	1-	1-	*
86		877-840	SPRING CLAMP PLIERS	1&	1&	1&	$491.37
87		877-520	PROTRACTOR FOR INSPECTION OF CRANKSHAFT DISTORTION	1)	1)	1)	$207.46

*** CALL FOR PRICING!**

a FOR SPARK PLUG WRENCH
b FOR OIL SEAL 12X30X7 WATER PUMP SHAFT
c FOR ROTARY SEAL
d FOR OIL SEAL 32X52X7, CRANKSHAFT MAGNETO SIDE
e FOR OIL SEAL 22X32X7, VACUUM PUMP
f FOR PRESSING OUT NEEDLE SLEEVE 22X28X12 AND BALL BEARING 15X32X8 OF VACUUM PUMP
g FOR VARIOUS JIG INSERTS
h FOR OIL SEAL 40X55X7, GEARBOX COVER - USE WITH HANDLE FOR INSERTION JIG (PART NO. 877650)
i FOR BALL BEARING 35-72-17 OF PROPELLER SHAFT, USE TOGETHER WITH INSERTION JIG PART NO. 876518
j FOR OIL SEAL 6X11X3/ 4.5 OF REV COUNTER HOUSING
k FOR CRANKSHAFT MAGNETO SIDE
l FOR MAGNETO HUB
m FOR EXTRACTOR
n SLIM EDITION, FOR MAGNETO HUB
o FOR OIL SEAL 32X52X7, FOR CRANKSHAFT MAGNETO SIDE
p FOR WATER PUMP IMPELLER
q FOR CHECK OF FLOAT CHAMBER
r FOR FLOAT LEVEL GAUGE
s FOR CHECK OF VALVE SPRING FORCE
t FOR FITTING OF PISTON PIN CIRCLIPS
u FOR FITTING AND REMOVAL OF PISTON PIN
v FOR PISTON PIN EXTRACTING TOOL
w FOR PISTON 79.5 MM (3.13 IN) DIAMETER
x FOR PISTON DIAMETER 84.0 MM (3.3 IN)
y FOR REMOVAL AND INSTALLATION OF VALVE SPRINGS
z FOR CHECK OF VALVE SPRING FORCE
\+ FIXTURE FOR VACUUM PUMP DRIVE
A TO ALIGN CYLINDERS
B FOR ENGINE FIXATION
C FOR ENGINE FIXATION
D FOR OIL FILTER
E FOR OIL FILTER REMOVAL
F FOR OVERLOAD CLUTCH
G FOR HEX. NUT 21 A/F, CRANKSHAFT, P.T.O SIDE
J REDUCING SOCKET 3/4“-1/2“
K FOR HEX. NUT, CRANKSHAFT MAGNETO SIDE
L 1“ TO 3/4“, FOR SOCKET WRENCH
M FOR GEARBOX
N TO COMPRESS DOG GEAR
O FOR PROP SHAFT, ROLLER BEARING 25X52X15 AND OIL SEAL 30X52X7
P FOR ROLLER BEARING 25X25X15 AND OIL SEAL 30X52X7
Q FOR PROP SHAFT VERSION 2
R FOR PROP SHAFT VERSION 3 AND 4
S FOR ROLLER BEARING 25X52X15 AND OIL SEAL 30X52X7, VERSION 2
T FOR ROLLER BEARING 25X52X15 AND OIL INLET FLANGE FOR VERSION 3
U FOR ROLLER BEARING 25X52X15, OIL SEAL 30X52X7 AND OIL INLET COVER
V FOR ROLLER BEARING 25X52X15, OIL SEAL 30X52X7 AND OIL INLET COVER
W FOR BALL BEARING 15X32X8, NEEDLE BEARING 22X28X12, OIL INLET FLANGE AND OIL INLET COVER
X FOR NEEDLE BEARING 22X28X12, VACUUM PUMP AND GOVERNOR DRIVE
Y FOR BALL BEARING 15X32X8 VACUUM PUMP AND GOVERNOR DRIVE
Z FOR CRANKCASE
* TO CHECK PROTRUSION OF PLAIN BEARING
§ TO RELEASE THE CABLE ON ELECTR. CONNECTORS
„ FOR MAGNETIC DRAIN PLUG
= FOR OIL SEAL 12X30X7 WATER PUMP SHAFT
$ FOR O RING 3.2X1.8 IDLE MIXTURE SCREW AND IDLE JET 35
& FOR SPRING TYPE CLAMP 28
# MEASURING EQUIPMENT FOR VALVE SPRING
\- DIAL GAUGE ADAPTER ASSY. FOR VALVE SEAT INSPECT USED WITH CHECK WEIGHT PART NO. 976995
ß FOR PRESS IN OF WORM GEAR FOR MECH. REV COUNTER
1) SEE LINE MAINTENANCE MANUAL OF THE CORRESPONDING ENGINE TYPE - CHAP. 05-50-00 (PROPELLER STRIKE)





LUBRICANT ADHESIVES AND SEALING COMPOUND CHAPTER INCLUDES NON-CERTIFIED PARTS

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
A		899-785	LOCTITE 221 VIOLET, 10 CC.,	ARa	ARa	ARa	**NLA**
B		897-651	LOCTITE 243 BLUE, 10 CC.	ARb	ARb	ARb	**$16.65**
C		898-241	LOCTITE 480 BLACK, GLUE 20 ML.,	ARe	ARe	ARe	**$67.90**
D		899-784	LOCTITE 574 ORANGE 50 CC.,	ARc	ARc	ARc	**$111.76**
E		297-434	LOCTITE ANTI SEIZE 8151 50 ML.,	ARd	ARd	ARd	**$29.71**
F		899-789	LOCTITE 603 GREEN, 10 CC.	ARf	ARf	ARf	**$34.97**
G		899-788	LOCTITE 648 GREEN, 5 GR.,	ARm	ARm	ARm	**$28.50**
H		899-791	LOCTITE 5910 - 50 CC.	ARo	ARo	ARo	**$47.25**
I		897-330	LITHIUM-BASE GREASE, 250 GR.,	ARg	ARg	ARg	**$60.93**
J		897-166	MOLYKOTE 44 MEDIUM, 100 GR.,	ARh	ARh	ARh	**$132.79**
K		897-161	MOLYKOTE 111, 100 GR	ARh	ARh	ARh	**$132.79**
L		898-570	LOCKING PAINT	AR	AR	AR	*
M		297-433	MOLYKOTE G-N, SLIDE PASTE 100 GR.	AR	AR	AR	**$92.94**
N		899-763	MOLYKOTE PG 54, 100 GR.	ARh	ARh	ARh	**$50.48**
O			ENGINE OIL	AR	AR	AR	*
P		897-870	INTAKE FILTER OIL 14.8 ML.	ARi	ARi	ARi	**$24.66**
Q			LOCTITE 7063 CLEANER	AR	AR	AR	*
R		297-386	SILASTIC 732 RTV, 100 GR.RTV	ARj	ARj	ARj	**$50.72**
S		897-186	SILICONE HEAT COMPOUND	ARl	ARl	ARl	**$158.78**
T		297-711	PU-GLUE	ARk	ARk	ARk	**$107.27**
U		898-441	LOCTITE 2701 5 ML.,	ARm	ARm	ARm	**$30.46**
V			MULTI PURPOSE GREASE LZ	AR	AR	AR	*

*** CALL FOR PRICING!**

a LOW STRENGTH BOND 10 CC.
b MEDIUM STRENGTH BOND 10 CC.
c SEALING COMPOUND 50CC.
d TO PREVENT METAL GALLING; 50CC.
e INSTANT ADHESIVE INCREASED FLEXIBILITY, 20CC.
f HIGH STRENGTH BOND 10CC.
g TO PREVENT LEAKAGE CURRENT; 250 GR.
h SILICON GREASE 100 GR.
i BLISTER 14.8 ML
j 100 GR.
k FOR VIBRATION DAMPING; 310 CC.
l FOR BETTER HEAT TRANSFER FROM THE SPARK PLUGS
m HIGH STRENGTH BOND 5 ML.
n DEGREASING FLUID 10 L.
o REGULAR BODY/HIGH ADHESION FLEXIBLE FLANGE SEALANT

GASKET SET, DOCUMENTATIONS, BLOCK ENGINE

NO	STATUS	PART #	DESCRIPTION	912 UL	912 ULS	914 UL	PRICE
1		996-943	GASKET SET	1a	1a	1a	**$1,072.81**
2		996-947	GASKET SET CARBURETOR	1b	1b	1b	**$110.43**
3	N	888-304	OVERHAUL-KIT	1			**$7,194.00**
3	N	888-306	OVERHAUL-KIT		1		**$7,194.00**
3	N	888-308	OVERHAUL-KIT			1	**$11,423.74**
4		899-424	BETRIEBSHANDBUCH	1c	1c		*
5		899-374	OPERATORS-MANUAL	1d	1d		*
6		899-644	BETRIEBSHANDBUCH			1c	*
7		899-645	OPERATORS-MANUAL			1d	*
8		898-640	EINBAUHANDBUCH	1c	1c		*
9		898-642	INSTALLATION-MANUAL	1d	1d		**$29.95**
10		897-807	EINBAUHANDBUCH			1c	*
11		897-817	INSTALLATION-MANUAL			1d	**$29.95**
12		899-425	WARTUNGSHANDBUCH LINE	1c	1c		*
13		899-735	MAINTENANCE-MANUAL LINE	1d	1d		**$89.50**
14		899-607	WARTUNGSHANDBUCH LINE			1c	*
15		899-608	MAINTENANCE-MANUAL LINE			1d	*
16		899-602	WARTUNGSHANDBUCH HEAVY	1c	1c	1c	*
17		899-603	MAINTENANCE-MANUAL HEAVY	1d	1d	1d	**$59.95**
18		899-471	SPARE PARTS CATALOG	1c	1c	1c	**$184.71**
19		300091202	ENGINE BLOCK		AR		**$12,173.09**
19		300091401	ENGINE BLOCK	AR		AR	**$14,998.62**
20		899-745	DOCUMENTATION CD-ROM				**$41.19**
21		580-682	ROTAX STICKER KIT AIRCRAFT				*
2		996-947	CARBURETOR OVERHAUL SET				**$110.43**

a FOR THE COMPLETE ENGINE, WITHOUT STARTER WITHOUT CARBURETOR;
b FOR CARBURETOR
c IN GERMAN LANGUAGE
d IN ENGLISH LANGUAGE

*** CALL FOR PRICING!**



PISTON W/ RING

(Green Dot - 75.95mm) P/N 888-590 ..... **$210.95**
(Red Dot - 75.94mm) P/N 888-590 ..... **$210.95**
Includes both top semi-trapezoid and rectangular bottom ring. Standard piston dome is stamped with 75.95mm (Green Dot) or 75.94mm (Red dot)



TOP PISTON RING – STANDARD

Composite molybdenum semi-trapezoid ring located at the very top of the piston. Use only on standard 75.94 or 75.95 piston. P/N 915-820 ..... **$88.29**



BOTTOM PISTON RING – STANDARD

Rectangular ring located below top ring. Use only on standard 75.94 or 75.95 piston
P/N 215-200 ..... **$56.81**

582 COMPLETE GASKET SET

Includes all gaskets, seals, rubber and metal rings in the engine. Includes all the following items.
P/N 886-230 ..... **$259.00**

PART	DESCRIPTION	QTY	PRICE
850-540	O-Ring	2	**$24.49**
850-040	O-Ring	2	**$7.66**
850-775	Gasket	1	**$23.99**
850-633	Gasket	2	**$12.07**
930-580	Oil Seal	1	**$24.62**
850-711	Oil Seal	2	**$23.23**
850-890	Rubber Seal	1	**$3.05**
831-615	Gasket	1	**$8.70**
250-165	O-Ring	2	**$5.09**
830-370	O-Ring	2	**$6.66**
830-355	O-Ring	2	**$5.26**
230-980	Gasket Ring	1	**$5.75**
827-180	Washer	2	**$1.68**
850-565	Gasket	1	**$56.02**
831-360	O-Ring	1	**$14.87**
831-700	Ring	1	**$5.44**



OIL INJECTION TUBING

5/32" od Polyurethane Tubing for all oil injection lines. Natural clear tubing allows you to see flow of oil.
Sold by the foot. P/N 13523 .....**$$0.84/ft**.



CIRCLE CLAMP

Designed especially for use with oil injection tubing. Just crimp with side cutters or dykes pliers to secure tubing to barbs. Not reuseable.
P/N 853-840 ..... **$2.15**



#956-230 KEVLAR

Fire Resistant Hose.
Factory replacement for RV fluid lines. Excellent fire resistant qualities when exposed to open flame. Sold in one meter (39") lengths.
P/N 853-840 .....**$51.29/m**.



RV HOSE 3/8"ID

A non factory economical replacement for #956-230 RV Hose. No fire resistant qualities. Sold by the foot.
P/N 13525 .....**$0.58ft.**



CARB SOCKET

Vibration and sunlight deteriorates these flanges. Inspect for wear and/or cracks on a daily basis. Replace immediately if cracking can be found. Recommended annual replacement. 2 per engine.
P/N 867-696 ..... **$28.43**



ROTAX FACTORY SERVICE MANUAL

Contains complete details on maintenance and repair of Rotax liquid cooled motors. Hundreds of illustrations take you step by step through a complete rebuild. Includes full specifications on all critical measurements, adjustments, troubleshooting, Torquing specs, RV shaft service, schematics, specialty tools, and much more. Never before available procedures for measuring crankshafts, pistons, and cylinders for determining wear limits. A must for any serious mechanic. Full 170 pages. Spiral bond for easy shop use
P/N 1247 ..... **$14.95**



EXHAUST GASKETS

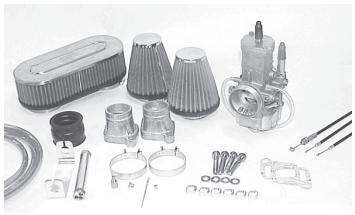
Checking rings for proper operation can be easily done through the exhaust ports. Replacing gaskets avoids messy exhaust leaks. 2 per engine.
P/N 850-633 ..... **$12.07**



METAL PLUG COVER

Shields spark plugs from heat and moisture. Snaps onto any NGK spark plug we carry. Ideal for use where RF suppression and low ohm resistance is needed. The industry standard for radio equipped aircraft. Screws directly onto solid wire plug wire.
P/N 9007 ..... **$14.75**

ROTAX 503 DUAL CARB KIT



This is the easiest way to convert your Rotax 503UL from 46 horsepower to 52 horsepower. We give you all the parts needed to complete the job, all you supply is the tools and time!

For engines without oil injection, select one of the following:

Complete Kit Includes the following Items:

1ea. 887-826 36mm Bing Carb
1ea. 867-484 Carb Socket
2ea. 951-510 Clamp
2ea. 831-865 Intake Gasket
1ea. #7738B 15" Cable
1ea. #7739 18.5" Cable
1ea. #7741 12" Oil injection Cable (oil injection kits only)
1ea. #7704 Junction Block
1ea. #7657 Mounting Bracket
4ea. 840-681 Screw 8x40
4ea. 945-752 Lockwasher 10mm
2ea. 867-400 Manifold (no oil injection) or...
2ea. 867-407 Manifold (oil injection)
1ea. #7007 Nylon Fuel Tee
5ft. #7011 Blue Fuel Line
6ea. #7311 Circle Clamps
1ea. #7415 1/16" Stop Swage
1ea. #2.70 Needle Jet
1ea. #158 Main Jet
1ea. #11K2 Jet Needle
2ea. 825-551 Single Carb Cone Air Filter, or... 1ea. 825-721 Oval Dual Carb Air Filter

For engines without oil injection, select one of the following:

Lever choke carburetor and oval air filter..... P/N 1224OL.. **$774.00**
Cable choke carburetor and oval air filter ..... P/N 1224OC . **$774.00**
Lever choke carburetor and 2 cone air filters ..... P/N 1224NL.. **$776.00**
Cable choke carburetor and 2 cone air filters ..... P/N 1224NC . **$776.00**

For engines with oil injection, select one of the following:

Lever choke carburetor and oval air filter..... P/N 1223OL.. **$783.00**
Cable choke carburetor and oval air filter ..... P/N 1223OC . **$783.00**
Lever choke carburetor and 2 cone air filters ..... P/N 1223NL.. **$784.00**
Cable choke carburetor and 2 cone air filters ..... P/N 1223NC . **$784.00**



COMPLETE CARBURETORS – TYPE 54

To Order, Specify:

1. Model indicated by engine number 277, 377, 447, 503, or 532.
2. With intake silencer or without intake silencer.
3. Single Carb or Dual Carb.
4. Hand Choke or Remote Choke.

Model # 54/36/2040

P/N 07-00303 ..... **$344.00**

TYPE 54 REBUILD KIT

#17 Top O Ring
#29 Bowl Gasket
#25 Hinge Pin
#21 Cable Grommet
#7 Air Screw O Ring
#26 Float Needle
#10 Sieve Sleeve (Screen)

P/N 07-00304..... **$34.75**

TYPE 54 FIX-IT KIT

#12 New Spring Cup
#56 Jet Needle O Ring
#11 Clip

P/N 07-00305 ..... **$13.75**



TYPE 84 COMPLETE CARBURETORS

To Order, Specify:

1. Model indicated by engine number 277, 377, 447, 503, or 532.
2. With intake silencer or without intake silencer.
3. Single Carb or Dual Carb.
4. Hand Choke or Remote Choke.

Model # 84/32/3437

P/N 07-00306..... **$334.95**

TYPE 84 REBUILD KIT

#17 Top O Ring
#29 Bowl Gasket
#25 Hinge Pin
#21 Cable Grommet
#7 Air Screw O Ring
#26 Float Needle
#10 Sieve Sleeve (Screen)

P/N 07-00307 ..... **$34.75**



ROTAX FLOAT & BOWL KIT

This float and bowl kit replaces a single float system. Includes clip float needle, float pin, float bracket, float chamber, and the float.

P/N 261-010..... **$86.75**

BING CARBURETOR ACCESSORIES

Bing Remote Choke Kit (w/8' cable) .... P/N 07-00308 .... **$48.75**
Bing Remote Choke Kit (w/o cable) ..... P/N 07-00309 .... **$27.50**
Bing Aircraft Parts manual ..... P/N 07-00310 .... **$13.95**
Bing Plastic Crossover Vent Tube - 280mm long. Used on Bing type 84 carbs..... P/N 07-01360 .... **$10.50**

CARBURETOR SYNCHRONIZATION

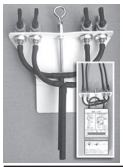


CARBMATE - Quick & easy synchronizing by direct comparison of a set of carbs / Fuel Injector throttle bodies. Range adjustable from 2 to 0,05cmHg per LED. Hook up 2 or 5 cylinder with the optional adapter kit. PN 07-01265 ..... **$109.95**



SYNCHROMATE - Precise synchronizing by direct comparison of a set of carbs / Fuel Injection throttle bodies. Fixed resolution of 0, 5cmHg. Includes absolute vacuum & 'wireless' RPM measurement. Hook up 3 or 4 cylinders with the optional adapter kit.

Synchromate ..... PN 07-01266 ..... **$221.95**
W/ Rotax Accessory Kit..... P/N 07-01892 ..... **$279.00**



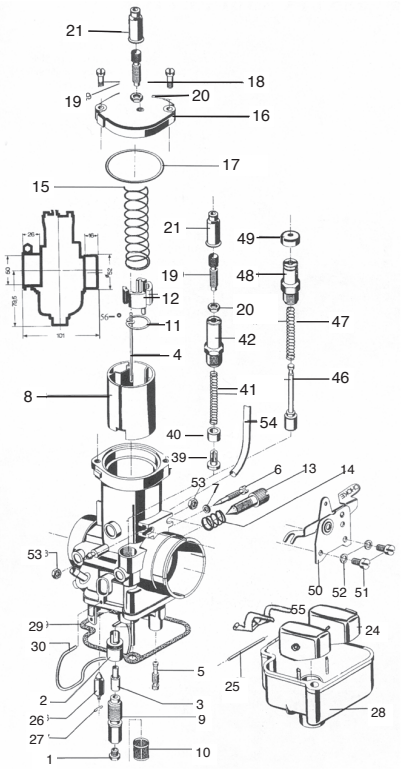
4-CHANNEL ADAPTER KIT

Converts the SynchroMate or CarbMate into a 4 carb/throttle valve synchroniser. This easy-to-mount & easy-to-use kit allows connection of SynchroMate's or CarbMate's 2 channels (tubes) to 4 carbs / throttle valves at once.

PN 07-01267 ..... **$57.50**

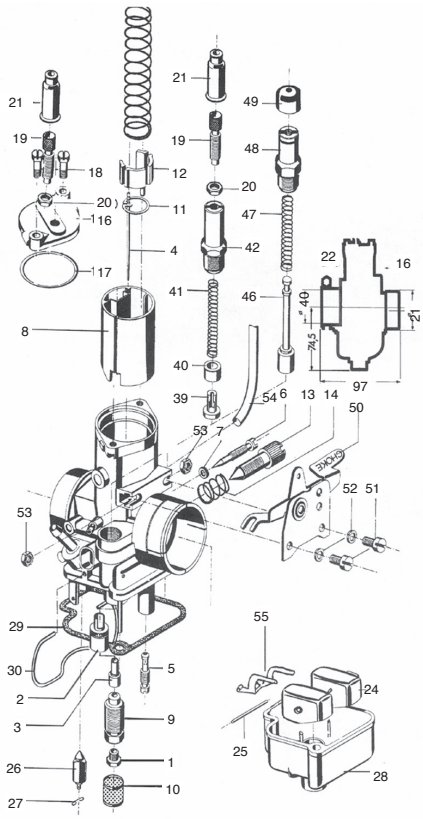
Accessories	Part No.	Price
4-Channel adapter kit TS-220	07-01267	$57.50
Rotax adapter w/ 2X6 ft hose TS-400	07-01889	$59.85
Rotax accessory kit TS-400 KIT	07-01890	$87.50
Rotax black nylon storage case TS-222	07-01893	$23.85
Rotax rubber black holster TS-223	07-01894	$8.95
Rotax replacement 6 ft rubber hose	07-01895	$13.85

REPLACEMENT PARTS – TYPE 54



No.	Part No.	Description	Price
1	268-978-998	Main Jet	$8.50
2	251-554	Atomizer	$19.75
3	963-691-699	Needle Jet	$14.25
4	963-711-719	Jet Needle	$13.50
5	963-140-147	Idler Jet	$27.60
6	963-155	Air Screw	$9.75
7	831-713	O Ring	$3.90
8	963-679	Piston	$83.75
9	963-700	Mixing Tube	$17.50
10	261-625	Sieve Sleeve	$7.90
11	963-500	Clip	$6.75
12	827-347	New Style Spring Cup	$6.50
13	963-160	Mix Screw	$7.25
14	938-640	Spring	$2.80
15	938-655	Slide Spring	$5.25
16	963-720	Cover Plate	$21.65
17	831-450	O Ring	$6.75
18	241-430	Screw	$1.47
19	241-440	Adjuster	$3.85
20	942-541	Nut	$1.03
21	260-370	Grommet	$2.26
24	861-181	Indep. Float	$29.75
25	929-700	Pivot Pin	$1.85
26	261-705	Float Needle	$29.75
27	261-710	Clip	$1.53
28	261-010	Bowl Kit (bowl,24-27,55) *Float Needle Valve not included	$86.75
29	830-720	Gasket	$8.25
30	963-180	Bowl Clip	$7.95
39	963-740	Piston	$8.50
40	268-850	Sleeve	$3.60
41	661-050	Spring	$1.70
42	963-750	Housing	$12.75
46	268-847	Piston	$20.75
47	239-730	Spring	$3.85
48	261-770	Housing	$9.75
49	260-490	Rubber Cap	$4.95
50	261-755	Choke Lever	$23.90
51	240-791	Screw(51) & Washer(52)	$2.40
52	945-750		
53	261-200	Nut	$1.11
54	256-035	Vent Tube	$2.75
55	861-190	Float Arm	$14.25
56	831-715	Jet Needle O Ring	$1.39

REPLACEMENT PARTS – TYPE 84

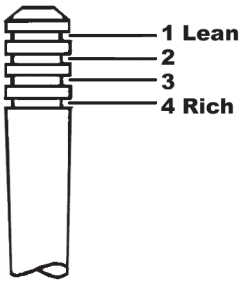


No.	Part No.	Description	Price
1	268-980	Main Jet 135	---
2	261-692	Atomizer	$23.50
3	261-606	Needle Jet 262	$12.25
4	261-643	Jet Needle 8H1	$13.50
5	963-140	Idler Jet 50	$27.60
6	963-155	Air Screw	$9.75
7	831-713	O Ring	$3.90
8	261-635	Piston	$68.50
9	963-130	Jet Stock	$17.50
10	261-625	Screen	$7.90
11	261-650	Holding Plate	$7.50
12	227-635	Spring Cup	$6.95
13	963-160	Mix Screw	$7.25
14	938-640	Spring	$2.80
15	239-700	Slide Spring	$6.50
16	261-660	Cover	$20.85
17	261-670	O Ring	$7.50
18	241-430	Screw	$1.47
19	241-440	Adjust. Screw	$3.85
20	942-541	Nut	$1.03
21	260-370	Grommet	$2.26
24	963-192	Float	$49.90
25	929-700	Pin	$1.85
26	261-705	Float Needle	$29.75
27	261-710	Clip	$1.53
28	963-170	Bowl	$35.50
29	830-720	Gasket	$8.25
30	963-180	Bowl Clip	$7.95
39	963-740	Piston	$8.50
40	268-850	Sleeve	$3.60
41	661-050	Spring	$1.70
42	963-750	Housing	$12.75
46	268-847	Piston	$20.75
47	239-730	Spring	$3.85
48	261-770	Housing	$9.75
49	260-490	Rubber Cap	$4.95
50	261-750	Lever	$17.00
51	240-791	Screw(51) & Washer(52)	$2.40
52	945-750		
53	261-200	Nut	$1.11
54	256-033	Vent Tube	$2.75

CARBURETOR JETTING CHART FOR ROTAX® UL ENGINES

Use this chart to identify part number you need, then use bottom chart to select correct part number to order.

ROTAX® ENGINE	MAIN JET	IDLER JET	NEEDLE JET	JET NEEDLE	CLIP POSITION	AIR SCREW
PRICES	$8.70	$23.50	$12.25	$11.50		
2771	148	45	2.72	8L2	2	1
2772	140	45	2.72	8L2	2	1
3771	165	45	2.70	8O2	2	.5
3772	155	45	2.70	8O2	2	.5
4471	165	45	2.70	15K2	2	.5
4472	155	45	2.70	15K2	2	.5
447DC1	135	50	2.70	6G1	3	1
447DC3	128	50	2.68	15K2	2	1
503SC1 Up to #3785371	180	45	2.74	8G2	3	.5
503SC2 Up to #3785371	158	45	2.74	6H2	3	.5
503SC1 From #3785372 Up	185	45	2.72	15K2	3	.5
503SC2 From #3785372 Up	165	45	2.70	15K2	3	.5
503DC1	158	45	2.74	8L2	1	.5
503DC3	148	45	2.68	11K2	2	1
532SC1	195	55	2.74	15K2	3	1
532SC3	170	55	2.74	15K2	3	1
532DC1	165	55	2.72	11G2	3	1
532DC3	145	55	2.68	15K2	3	1
5821	165	55	2.72	11G2	3	1
5823	145	55	2.68	15K2	3	1



1 = Without Rotax® intake silencer kit, with K&N RC1200 air filter, with or without Rotax® after muffler kit.

2 = With Rotax® intake silencer kit, with K&N CM0300 air filter, with or without Rotax® after muffler kit.

3 = With Rotax® dual intake silencer kit, with K&N RC1200 air filters, with or without Rotax® after muffler kit.

MAIN JET



125 = Part No. R268-978
128 = Part No. R261-085
130 = Part No. R268-979
135 = Part No. R268-980
138 = Part No. R268-998
140 = Part No. R268-981
145 = Part No. R268-982
148 = Part No. R268-995
150 = Part No. R268-983
155 = Part No. R268-984
158 = Part No. R268-996
160 = Part No. R268-985
162 = Part No. R268-990
165 = Part No. R268-986
170 = Part No. R268-987
175 = Part No. R268-988
180 = Part No. R268-989
185 = Part No. R261-080
190 = Part No. R261-084
195 = Part No. R268-992
200 = Part No. R261-082
205 = Part No. R261-087
220 = Part No. R261-081

IDLER JET



30 = Part No. R963-141
35 = Part No. R963-143
40 = Part No. R963-142
45 = Part No. R963-144
50 = Part No. R963-140
55 = Part No. R963-147
60 = Part No. R963-145
65 = Part No. R963-146

NEEDLE JET



2.62 = Part No. R261-606
2.68 = Part No. R963-691
2.70 = Part No. R963-698
2.72 = Part No. R963-697
2.74 = Part No. R963-699
2.76 = Part No. R963-693
2.78 = Part No. R963-696
2.80 = Part No. R963-695
2.82 = Part No. R963-694
2.94 = Part No. R961-022

JET NEEDLE



2H2 = Part No. R963-717
4E2 = Part No. R963-716
6G1 = Part No. R261-642
6H2 = Part No. R963-719
8G2 = Part No. R963-712
8H1 = Part No. R261-643
8L2 = Part No. R963-714
8O2 = Part No. R963-711
1O = Part No. R961-045
11G2 = Part No. R961-043
11K2 = Part No. R961-044
15K2 = Part No. R963-718

NEEDLE CLIP



P/N 07-00693 ..... **$6.75**

Lower numbers indicate smaller jet size or opening.
Low numbers = lean.
High numbers = rich.
First needle number denotes mixture above half-throttle.
Needle letter denotes mixture below half-throttle.



KWIK TUNE FOR ROTAX ENGINES

Kwik Tune helps remove and reinstall the aircraft throttle cable, cover, spring, and slide in a Bing carburetor..... P/N 08-05206 ..... **$9.95**

MIKUNI FUEL PUMP



Fuel Pump

Genuine Mikuni fuel pumps. Replace original parts on Rotax®, Hirth, & many other engines.
Single Pump ..... P/N 07-00777 ..... **$33.70**
Dual Pump ..... P/N 07-00778 ..... **$28.90**



Rebuild Kits

MIKUNI REBUILT KIT FOR SINGLE/DUAL FUEL PUMPS
Single Pump ..... P/N 07-01011 ..... **$9.50**
Dual Pump ..... P/N 07-01010 ..... **$14.75**

BING FUEL PUMP



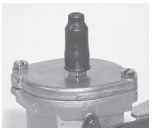
Bing High-capacity pump. Use when tank is more than 5' away or significantly lower than engine.
Bing High Capacity fuel pump P/N 07-00779 ... **$173.95**
Diaphragm Repair kit. ..... P/N 07-01007 ..... **$34.85**
Bing Low Vol. fuel pump..... P/N 07-01008 ... **$106.95**
Repair Kit for Low Vol pump..... P/N 07-01009 ..... **$38.50**

FACET ELECTRIC FUEL PUMPS



SOLID-STATE TYPE PUMPS - Measure less than 3" in any direction and weigh only 18 oz. Fuel is supplied as soon as the ignition is turned on so the engine will start faster at colder temperatures. Built-in pressure relief prevents flooding and assures fast re-starts on hottest days. The all-steel plated case is water tight. Mounts with two bolts. For best results, mount the pump close to the fuel tank and below the liquid level. The tank is self-priming to 18" fuel lift. Standard 12 V models require only 1 amp at max. delivery. All of the pumps shown feature a all nylon valve and plunger.

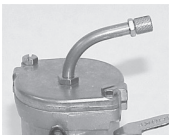
FACET NO. 40104 - 12V Neg. Ground, 4. - 1.5 PSI Max.,25GPH. 1/8 x 27 internal pipe ports..... P/N 40104..... **$33.85**
FACET NO. 40105 - 12V Negative Ground, 3.0 - 4.5 PSI Max., 30 GPH. 1/8 x 27 internal pipe ports..... P/N 40105..... **$33.50**
FACET NO. 40106 - 12V Negative Ground, 4.5 - 6 PSI Max., 30 GPH. 1/8 x 27 internal pipe ports..... P/N 40106..... **$33.65**
FACET NO. 40163 - 12V Neg. Ground, 2.5-1.5 PSI Max, 17 GPH, 1/8 x 27 internal pipe ports..... P/N 40163..... **$53.50**
FACET NO. 40164 - 24V Negative Ground, 4-C PSI Max, 30 GPH, 1/8 x 27 internal pipe ports..... P/N 40164..... **$42.85**
FACET NO. 40171 - 12V Neg. Ground, 3.5 - 2 PSI Max, 15 GPH, 1/8 x 27 internal pipe ports..... P/N 05-40171..... **$48.50**
FACET NO. 40288 - 12V Neg. Ground, 4.5 - 3.0 PSI Max, 30 GPH, 1/8 x 27 internal pipe ports..... P/N 05-06860..... **$35.75**
FACET NO. 40289 - 12V Neg. Ground, 0 GPH, 1/8 x 27 internal pipe ports..... P/N 05-06861..... **$35.75**
FACET NO. 40108/40154 - 12V and 24V electric fuel pumps which have AN-style 37° male "dash 6" fittings built into the fuel pump to provide a simpler fuel line hookup than with the internal pipe threads on the older Facet fuel pumps.
4-6 Psi ..... P/N 40108 (12V) **$44.75**
15 GPH. ..... P/N 40154 (24V) **$44.50**
Facet filter for solid-state pumps..... P/N 479735..... **$4.45**
Facet Gasket & Filter FEP 42370 ..... P/N 05-01019..... **$6.75**
The pumps above do not feature an anti-siphoning valve and fuel will flow through them in event of pump failure.



CARB GROMMET

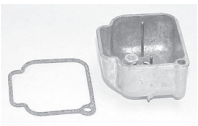
Stock strain relief rubber that guides and holds throttle cable into adjuster.

P/N 260-370.....**$2.26**



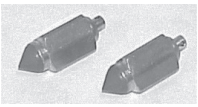
CARB TOP 90 DEGREE EXIT TUBE

Allows throttle cable to exit top at right angles. Cleans up the spaghetti associate with cable and choke cables. Includes adjuster sleeve and locknut. Requires different throttle cables because of extended length. P/N 13507.....**$32.65**



FLOAT BOWL GASKET

Genuine cork replacement gasket for all 36mm Bing Carbs. P/N 830-720.....**$10.53**



VALVE W/ VITON TIP

Controls fuel flow to float bowl. Replace if fuel is exiting vent tubes

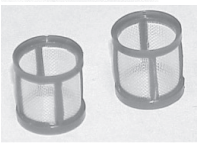
P/N 261-704.....**$56.33**



CARB FLOAT

New style concaved corner float assembly. Check post bushing for excessive wear. Replace if worn.

P/N 861-184.....**$107.25**



SCREEN FILTER

Filters and stabilizes fuel entering the main jet passage. Inspect for broken edges that could enter jet passage.

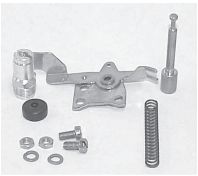
P/N 07-00390 .....**$7.90**



BING CARB CABLE CHOKE PARTS KIT

Includes all internal Carb parts as shown to convert Bing Carbs to remote cable operation. Plunger accepts #7417 solder swage. Order one per Carburetor.

P/N 995-665.....**$27.50**



BING LEVER CHOKE KIT

Includes all parts to convert cable choke Carbs to manual lever actuation. Includes all parts shown. Carb must have choke provision.

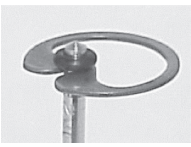
P/N 7658 ..... **$41.85**



E-CLIP

Fits any 36mm Bing Carb. Snaps onto Jet Needle. Can be moved for a quick change in mid-range fuel mixture. Inspect for rotational wear. Replace if not a tight fit. Use with #963-505 O-Ring

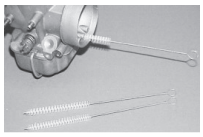
P/N 963-500..... **$6.75**



RETROFIT O-RING

Special o-ring fitted directly above e-clip. Prevents rotation wear of e-clip and pin.

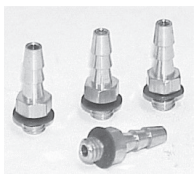
P/N 963-505.....**$1.60**



BING CARB CLEANING BRUSH

Ideal for cleaning of the small passages on Bing Carbs. Small diameter nylon and wire brush fits most passages for a thorough cleaning.

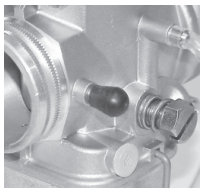
P/N 7660..... **$3.90ea**.



CARB ACCESS FITTING

If your Carburetor(s) is not equipped with a primer port, you can install this simple fitting in a matter of minutes. This straight 10-32 thread fitting has built-in gasket for a positive seal. Comes with instructions for locating, drilling, and tapping.

P/N 8617.....**$4.53**



PRIMER PORT CAP

if not using a plunger primer this passage must be securely capped to prevent air leakage and possible engine damage.

P/N 860-610.....**$2.15**



RUBBER SOCKET

Careful inspection of Carb sockets should be included with every pre-flight. Rubber can dry-out and crack due to direct sunlight and other elements. Always be prepared to replace these items immediately when cracking appears. Rotax 447-503 Carb Socket

P/N 867-484.....**$35.50**



CARBURETOR SOCKET

Careful inspection of Carb sockets should be included with every pre-flight. Rubber can dry-out and crack due to direct sunlight and other elements. Rotax 582-618 Carb Socket.

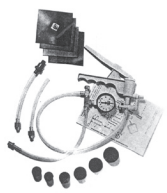
P/N 867-696 .....**$28.43**



BLACK SATIN COATING

The most advance exhaust system coating available. Black satin is an easy to apply ceramic reinforced coating. When properly applied it becomes the most effective thermal barrier coating available, increasing performance, while extending component life. Black satin has been tested to over 2000 degrees Fahrenheit without lifting, cracking or flaking. Unlike header wraps, Black satin does not hold potentially damaging heat around the part. Rather, the surface temperatures are actually reduced, extending the life of the part. In addition, as Black satin cures a very effective corrosion inhibiting film is formed that protects the part against oxidation and imparts excellent chemical resistance that further extends part life and enhances appearance. 4 oz. Bottle

P/N C515 .....**$21.75**



ENGINE VACUUM & PRESSURE TESTER

The easy to use pristol-grip type hand pump has two hose connector ports, one for pressure and the other for vacuum. The gauge will automatically read pressure or vacuum, depending on the ports you use. A manual shutoff valve is included for added control. The connector hose features a coupling and two interchangeable hose connectors. A spark plug adapter is attached to one hose and a gasket-to-hose adapter attaches to the other. Assorted neoprene plugs and sheets are provided for sealing engine parts. Complete instructions and parts list are included.

P/N A3800.....**$98.00**

EP

NGK SPARK PLUGS

Note: The spark plugs listed are not for aircraft application

DCPR7E

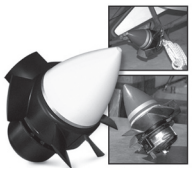


BR8EIX



Size	Description	Part No.	Price
10mm	CR5HSB	08-06263	**$2.25**
12 mm	DCPR7E	08-00504	**$3.80**
12 mm	DCPR8E (Removable Terminal Nut)	08-01228	**$3.65**
12 mm	DCPR8E (Solid Terminal Nut)	08-07044	**$3.35**
12 mm	DR8EA	08-00693	**$2.40**
14 mm	BR8EIX	08-00650	**$9.50**
14 mm	B8ES (Solid Terminal Nut)	08-00730	**$2.50**
14 mm	B8ES (Removable Terminal Nut)	08-07075	**$2.65**
14 mm	BR8ES	08-00736	**$2.45**
14 mm	B7ES	08-07039	**$2.35**
14 mm	B9ES	08-07040	**$2.15**
14 mm	BR7ES	08-07041	**$2.25**
14 mm	BR9ES	08-07042	**$2.47**
14 mm	BR7EIX	08-07045	**$6.85**
14 mm	BR9EIX	08-07046	**$7.95**
12mm	DP9EA-9	15-05219	**$2.85**
14mm	IK24	15-05204	**$12.95**

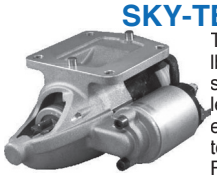
GENNIPOD WIND GENERATOR



The GenniPod wind generator has been designed and built for use on EXPERIMENTAL and Ultralight Aircraft. Utilizing a new solid state voltage regulation system, the GenniPod has been designed to target 13.5 volts at a 4 amp output. Final Phase testing demonstrated sufficient power for, Instrument panel gauges, GPS, Handheld NavCom, VW Ignition (point), and a fuel transfer Pump for those long cross country flights, (OSHKOSH!) Targeted airspeed for this unit was a cruise of 75 mph, and an aircraft Vne of 110 mph. Your GenniPod is delivered ready to mount on your airplane. Two wires, (Positive and Negative), will be linked to your electrical system. You will supply generator switch, 5 amp Breaker, and wiring to link the GenniPod to your system. A small motorcycle lead acid battery is also required These items are not supplied to allow you to build to your needs, and to keep our prices low. The GenniPod measures approximately 9" long, with a diameter of 7" at the prop. Weight will be approximately 3.5 pounds installed.

P/N 11-07182 ..... **$249.50**

SKY-TEC STARTER 122-LSA



The lightest Lycoming starter ever at just 6.3 lbs. The 122-LSA is Lycoming's factory OEM starter on the new O-233 LSA engine. An excellent 12V starter for O-235, O-290 and O-320 engines with 122-tooth ring gears. Plenty of torque, high cranking speed, low current draw. Features a precision machined housing specifically designed to mount the lightweight Plane-Power AL12-EI60 alternator - enabling the industry's lightest weight starter/alternator pairing at just 16.05 lbs. for both! Perfect for lightweight, Lycoming-powered LSA aircraft. Experimental.

Starter 122-LSA.....P/N 07-01806 ..... **$454.00**

122-LSA Starter & AL12-E160-L Alternator Kit

P/N 07-01806-1 ..... **$892.00**

SKY-TEC STARTER FOR ROTAX



Manufactured by Sky-Tec, these are direct replacements for electric starters on all Rotax 912 and 914 engines. High torque and lightweight, Sky-Tec Rotax starters crank 10% faster and draw less current than stock Rotax starters. Certified for use in many S-LSA certified aircraft and all experimental aircraft. 4.1 lbs. Not FAA PMA Approved.

Sky-Tec Starter for Rotax.....P/N 07-01263 ..... **$395.00**



K&N AIR FILTERS

Rubber end cap instead of chrome makes this filter less likely to create damage in the event of a prop strike. Also includes rubber boss for safety wire attachment.

K&N Air Filter # SP2704 ..... P/N 08-06098 .. **$24.90**
K&N Air Filter # SP2706 ..... P/N 08-06099 .. **$54.75**
K&N Air Filter # RC-2314..... P/N 08-07291 **$142.95**

See website for engine applications.



K&N AIR FILTER CLEANER & DEGREASER

This is the only cleaner formulated to clean K&N Filtercharger elements. The use of any other cleaning solution will void the filter's warranty, and quite possibly could damage the cotton material. K&N Cleaner works to dissolve the dirt build-up and old filter oil, and can be washed away with water. It is biodegradable and safe on paint, chrome, cast aluminum, plastic, rubber, and vinyl when used as directed. Complete instructions on the bottle.

NOTE: Do not use on polished or anodized aluminum.

12-fluid oz. squirt bottle ..... P/N F99-0606 ..... **$6.65**



K&N AIR FILTERS

Our K&N Filters are the industry standard in excellence. All filters are constructed with ultra-strong molded pliable rubber flanges which absorb vibration and provide secure attachment. These flanges can be stretched up to 1/8" (3mm) to fit in-between sizes. K&N Universal air filters are available in round, tapered, and oval designs, to fit just about any application. Use the dimensioned sketch and the selection chart to find the filter best suited to your application.

Part No.	K&N Part No.	Application	Throat	Length	Dia.	Style	Price
08-01053	FRV2440	Rotax®/Bing 36mm	2"	2"	5-3/8"	Round Straight	**$53.75**
08-01273	RU0600	Mikuni 32mm	2-1/4"	4"	3-1/2"	Round Straight	**$31.50**
08-04977	RU0800	Mikuni 34mm	2-1/2"	4"	3-1/2"	Round Straight	**$35.50**
08-04980	FRC0930	Kawasaki/Mikuni 32mm	2-3/4"	3"	5"	Round Straight	**$103.45**
08-04981	FRC1250	Mikuni 36mm	2-1/4"	4"	2"	Cone	**$36.99**
08-04978	RU2690	Rotax®/Bing 32mm	1-3/4"	2-1/2"	2"	Cone	**$35.85**
08-01274	RC1350	Rotax®/Bing 36mm	2-1/16"	4"	3"	Round Straight	**$32.75**
08-01275	RC1200	Rotax®/Bing 36mm	2-1/16"	4"	2"	Tapered	**$39.75**
08-04979	RC2820	Rotax® 532/582 Dual Carbs	2-1/16"	3"	8-1/2"	Dual Oval	**$48.95**
08-04976	RC2720	Rotax® 503 Dual Carbs	2-1/16"	3"	8-1/2"	Dual Oval	**$49.85**
08-04977	RU0800	Mikuni 34mm	2-7/16"	4"	3-1/2"	Straight	**$35.50**
08-01278	RU2790	Rotax® 503/532 Aerobatic carb.	3-1/2"	4-1/2"	3-1/2"	Cone	**$28.85**
08-01279	RA045V	Rotax® 912 Offset	2"	2"	5-7/8"	Round offset	**$48.50**
08-01280	RU0810	Rotax® 814 Rd. Center	2-7/16"	5"	3-1/2"	Round Centered	**$29.75**
08-04983	FRC1890	Rotax®/Bing 36mm	2-1/16"	3"	3"	Round Straight	**$44.80**
08-04984	FRC1150	Rotax®/Bing 36mm	2-1/16"	3"	3-1/2"	Round Straight	**$35.75**

K&N FILTER CHARGER OIL



K&N Air Filter Oil is the only oil specially formulated to work in combination with the cotton fabric in K&N Filtercharger elements, providing a superior air filtration system. When used as directed, it quickly penetrates the filter pleats, where it remains suspended in the cotton fabric. Saturation is maintained until the element is cleaned with K&N Air Filter Cleaner.

6.5 oz. aerosol can - red ..... P/N F99-0504 ..... **$5.95**
8 oz. squeeze bottle - red..... P/N F99-0533 ..... **$5.85**

K&N POWER KLEEN



K&N Air Filter Cleaner is the only cleaner recommended to clean K&N Air Filter elements. K&N Air Filter Cleaner works to dissolve dirt build up and old filter oil and can be washed away with water. It is environmentally friendly and safe on paint, chrome, cast aluminum, plastic, rubber and vinyl when used as directed (do not use on polished or anodized aluminum). Complete instructions on bottle.

12 oz. Spray..... P/N 05-01944 ..... **$6.65**
1 Gallon Refill..... P/N 15-05451 ..... **$26.50**
5 Gallon Pail..... P/N 08-07461 ..... **$81.40**

K&N AIR FILTER SEALING GREASE



K&N Sealing Grease provides an airtight fit around sealing surfaces on all types of air filter elements. It resists heat and will not melt or run off. K&N sealing grease is not to be used on clamp-on filter elements. 6 oz. Squeeze Tube. 8 oz. squeeze tube - black .....P/N 08-01093 .. **$9.50**

K&N RECHARGER KIT



K&N Recharger® kits contain K&N air filter cleaner and air filter oil for recharging any K&N Filtercharger® Air Filter. Restores air flow efficiency so your K&N air filter performs like new!

P/N 08-00722 ..... **$11.95**

E-Z HEAT 912 ENGINE PREHEATER



The E-Z Heat Engine Preheater system fits the Rotax motors and many other light sport aircraft on the market today. The system consists of two heater pads connected with a common “Light Bright” power cord. Installation is easy by peeling and sticking a pad on both the sump and on the oil tank to assure the engine gets the proper amount of heat. P/N 07-01860 ..... **$149.95**

REIFF PREHEATER FOR ROTAX 912/914



The Reiff preheat system for Rotax 912 and Rotax 914 aircraft engines is an engine-mounted electric preheat system designed for easier cold-weather starts. The preheat system consists of a 100-watt metal “hot strip” element, which is epoxied to the bottom of the crankcase, and a 50-watt band heater that is clamped to the oil tank. The Reiff is FAA-approved, and includes a thermostat to keep the oil from exceeding 150° F.

110V. ..... P/N 08-06219..... **$242.95**
220..... P/N 08-06219-1 ..... **$268.75**

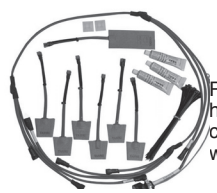
TANIS PREHEAT SYSTEM FOR ROTAX 912/914 SERIES ENGINES



Preheat system for Rotax 912/914 series engines. Kit contains heating elements for each cylinder, crankcase, and oil sump.

P/N 08-07395..... **$635.00**

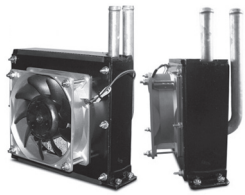
TANIS PREHEAT SYSTEM FOR JABIRU 3300 ENGINES



Preheat system for Jabiru 3300 engine. Includes heating elements for each cylinder and oil sump, complete wiring harness and installation hardware.

P/N 08-07088..... **$574.95**

NEAT HEATER



A neat and compact, powerful heater system for your Light Sport Aircraft! Never fly cold again. Installs quickly and easily in any aircraft with a liquid cooled power plant. Specifically Designed For the Rotax 912 and 582.

Features:
- Powerful 300 CFM Fan
- Draws Only 3.4 amps
- Simple on/off controls
- Completely Shut Coolant Off In Summer
- Tested, Proven Design to 250 Deg at 25 psi.
- Infinite Mounting Possibilities
- Safe and Reliable
- Easy to Install/Service
- One Year Parts Replacement Warranty

Specifications:
- Dimensions: 7.5” x 6.75” x 3.75”
- Weighs only 6 lbs pounds

Neat Heater..... P/N 08-07376 ..... **$415.00**
Neat Heater Install Kit ..... P/N 08-07377 ..... **$228.95**

TEMPEST ROTAX OIL FILTERS



The new filter has all the features which have made the Tempest oil filter so popular, including the magnetic secondary filtration system, and higher burst pressure. Full Can Thickness:.019”. Base Plate Thickness:.100”. Burst Pressure:275-325. Media Size:118 sq. in.

P/N 08-07226 ..... **$20.90**

K&N OIL FILTERS



K&N powersports oil filters are ‘TUV’ product endorsed and ‘TUV’ factory production monitored. This means every K&N oil filter is equal to or will exceed all OEM specifications. Our filters contain a modern synthetic filter media, designed for ultimate flow with less pressure drop, yet engineered for outstanding filtration to meet or exceed all OEM specifications. All K&N powersports ‘spin-on’ oil filters feature a heavy-duty metal can with a 17mm nut affixed onto the end that allows for easy installation and removal. The 17mm nut is crossed-drilled so racers can safety wire the filter to their bike.

K&N OIL FILTER KN-141..... P/N 08-06231 ..... **$9.75**
K&N OIL FILTER KN-142..... P/N 08-00691 ..... **$9.75**

SAF-AIR OIL DRAIN SUMP VALVES



S6250

Changing engine oil has never been easier. With the Saf-Air oil Drain Valve, no wrench is needed to remove the drain plug. A simple push and turn of the Saf-Air valve locks it in the open position. The valves are made completely from aluminum & stainless steel parts. FAA & PMA APPROVED

Part No.	Engine Application	Thread	Price
M12175	ROTAX 912, 914	12mm x 1.75	**$38.75**
S5020J	Jabiru 2200 / 3300	1/2”-20	**$38.75**
M20150	Subaru 2.2L / 2.5L	20-1.50mm	**$45.80**

CHALLENGER FAA/PMA LIFETIME OIL FILTER SYSTEM



The filter element is made from medical grade, type 304 stainless steel micronic filter cloth providing unmatched protection against oil contamination and resultant engine damage.

A rare earth magnet is installed in the top of the element for magnetic pre-filtering of the oil. The unique twist lock design allows for easy disassembly, inspection and cleaning. The quad-ring gasket doubles the seal between the filter and the engine . The filter housing is carved out of a solid piece of 6061 T6 billet aluminum with cooling fins, which not only looks good but aids in dissipating heat.

Features: • Cleanable and Reusable • High Flow Rate • Unique Twist Lock Design • Exteriors Fins • Unaffected by Water, Heat, or Pressure • Safety Wire Attachments 360 degrees • Environmentally Friendly.

Challenger	Replaces	Our P/N	Engine Model	Price
CP-9124C w/ relief valve	8245-706	08-07174	Bombardier-Rotax 912 F2, 912 F3, 912 F4, 912 S2, 912 S3, 912 S4, 914 F2, 914 F3, 914 F4	**$195.50**

CHALLENGER STAINLESS STEEL MICRONIC OIL FILTER FOR ROTAX 912/914 ENGINES

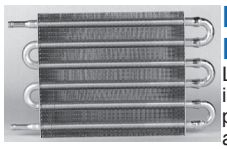


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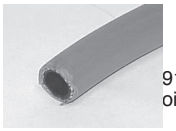
P/N 08-07174 .....**$195.50**



LIGHTWEIGHT OIL COOLER FOR HOMEBUILTS

Lightweight, compact oil cooler improves cooling in closely cowled homebuilts. Mounts in any position. Furnished with 4 ft. of 5/16" I.D. hose and 4 clamps. Size 7-1/2H x 12-3/4L x 3/4D.

P/N 403 .....**$56.50**



ROTAX 912 13MM OIL COOLER HOSE

912 Oil Cooler Hose 13mm high heat hose for 912-914 oil coolers. Sold by the foot.

P/N 15-06907 .....**$7.50**



AEROSHELL OIL SPORT PLUS 4

AeroShell Oil Sport Plus 4 is ideal; as it is extremely resistant to the immense sheer forces that occur in areas of high-pressure contact such as high-speed gearboxes, valve trains, bearings, pistons and liners. This is where the blend of base oil and additives is most crucial. AeroShell Oil Sport Plus 4 is made up of a blend incorporating synthetic technology and high performance additives to provide long lasting protection. In addition, detergents in the oil keep important areas, such as the pistons and cylinders, clear of carbon based particles that tend to adhere to these surfaces. So when you change your oil to new AeroShell Oil Sport Plus 4, you are not only removing dirt from your engine, you are also replenishing the additives used to protect your engine during normal operation. ***DO NOT use AeroShell Oil Sport Plus 4 in engines that are designed to use Ashless Dispersant aviation piston engine oils such as AeroShell W Oils. This includes air cooled Teledyne Continental Motors, Textron Lycoming and Jabiru engines.***

4 Cycle Sport Plus 4 Oil (Liter) .....P/N 08-07048 .....**$12.85**
4 Cycle Sport Plus 4 Oil (Case of 12).....P/N 08-07047 .....**$147.75**



GOLDEN SPECTRO 2-CYCLE ENGINE OIL

A modern synthetic blend that surpasses the lubrication and protection ability of petroleum oils. Formulated with clean-burning synthetics, it will not foul spark plugs. High film strength components ensure complete protection against piston seizure and scuffing due to inadequate lubrication. Special additives protect against rust and corrosion. Leaves your engine free of harmful deposits and offers essentially smoke-free operation when used at the recommended ratios. P/N GS001 .....**$8.75**



PENNZOIL OIL

Two-cycle oil for air-cooled engines. Recommended by engine manufacturers for air- *and* water-cooled engines.

8oz. Single Bottle..... P/N 08-06261 ..... **$1.95**
16 oz. Single Bottle ..... P/N 08-01240 ..... **$1.95**
Case of 24 8oz. Bottles ..... P/N 08-06260 ... **$39.95**

AEROSHELL GREASES

Mineral Grease #5 (MIL-G-3545C) ..... P/N 08-05455...**$6.60**
General Purpose Grease #6 (MIL-PRF-24139A).. P/N 08-05460...**$5.85**
Synthetic Grease #7 (MIL-PRF-23827C) ..... P/N 08-05475.**$13.90**
Mineral Grease/Helicopter #14 (MIL-G-25537C) .. P/N 08-05480...**$7.50**
Synthetic Grease #22 (MIL-PRF-81322G)..... P/N 08-05490.**$11.60**
Synthetic Lithium Grease #33 (MIL-PRF-23827C). P/N 08-00825.**$14.70**
Syn. High Pressure Grease #33MS(MIL-G-21164D). P/N 08-00824.**$15.50**



EVANS NPG + COOLANT FOR ROTAX ENGINES

NPG+ is new coolant providing dramatic improvements in heat transfer and viscosity that make the new fluid a "pour-in," not requiring changes to cooling system components. NPG+ waterless coolant virtually eliminates boil over in gasoline or diesels - the waterless coolant allows engines to tolerate running hotter, without boiling over, and allows the cooling system to run at very low or no pressure. Because there is no water in the system engines operating with NPG+ will be free from corrosion and electrolysis, and the engines will run well no matter how hard they are driven or how hot or cold the environment is. Specified coolant for Rotax Aircraft Engines, Type 912 and 914 (series). P/N 08-04535 .....**$38.50**



EVANS PREP FLUID

Evans Waterless Flush is used when systems cannot be drained properly of all the conventional water and antifreeze. Suggested to be used with experimental aircraft conversion and all motorcycle, ATV and import cars. Not intended to be used as a coolant.

P/N 08-04534 .....**$23.75**



AV-2 AVIATION 2-CYCLE OIL

AV-2 Aviation 2-Cycle Oil is a low-smoke formula specially formulated for Rotax Aircraft Engines.

For over 12 years, AV-2 has proven its formula to be superior, not by exaggerated claims or hyped advertising, but by literally millions of trouble free flight hours.

The custom blend of 50% high quality mineral base and 50% synthetic oils is designed to lubricate vital engine parts without leaving carbon deposits.

AV-2 also protects your engine against rust & corrosion even during prolonged storage, a protection not found in straight synthetic oils.

AV-2 is specially formulated for use in "Dykes" ring equipped Rotax Aircraft Engines.

AV-2 Oil - Gallon .....P/N 15-04992 ..... **$29.95**
5 Gallon Pail.....P/N 7533 ..... **$149.00**



AV-9 FOUR STROKE OIL 32 OZ. 10W40

Rotax 4 stroke, 4 cylinder engines require special protection from high temperatures and gear wear. The semi-synthetic blend of our AV-9 is specially formulated to handle the unique operating conditions found in Rotax 4 cylinder engines with built-in gearboxes. Gearbox components are protected from premature failure with blended additives found in AV-9. The semi-synthetic blend will also suspend lead from aviation fuels. Specially formulated and blended, AV-9 is the ideal choice for Rotax 4 cylinder 4 stroke engines.

P/N 15-04994 .....**$7.65**



LORD ENGINE MOUNTS FOR ULTRALIGHTS

All altitude mounts for vibration isolation and shock prevention in all directions. Available in soft, medium, or hard rubber.

Soft .....P/N 08-07049 .....**$15.75**
Medium .....P/N 08-01013 .....**$18.85**
Hard .....P/N 08-07050 .....**$10.75**
Snubbing Washer .....P/N 9810145-01804 .....**$1.24**



ROTAX EXHAUST SPRING 938-795

Genuine Rotax replacement spring for use with Rotax exhaust systems 277/377/447/503,618,912 UL,912 ULS. 66mm (2.60") hook distance. Part #938-795 Spring 2-1/4" with a 5/8" diameter. P/N 08-06101 .....**$3.28**

Prices Subject to Change Without Notice

LOCTITE THREADLOCKER



Loctite Threadlocker used on a standard fastener can eliminate expensive locking devices while you increase the reliability and quality of your assembly. One drop prevents loosening. 2 removable strengths for large & small applications and permanent strength for locking parts you never want to take apart.

#222 Threadlocker (permanent, for small screws)

10 ml..... P/N 09-42605..... **$14.50** 50 ml..... P/N 09-42610.. **$39.65**

#242 Threadlocker (removable, for large screws)

10 ml..... P/N 09-42615..... **$16.75** 50 ml..... P/N 09-42620.. **$39.90**

#262 Threadlocker (permanent, for large screws)

10 ml..... P/N 09-42625..... **$16.75** 50 ml..... P/N 09-42630.. **$43.65**

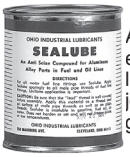
PARKER-O-LUBE



Excellent for use on exposed valve plungers, cylinder rods, and other o-rings. It lubricates without causing deterioration of rubber and is water resistant. Good for low pressure vacuum and pneumatic systems.

4 oz. tube..... P/N 05-00773..... **$7.90**

SEALUBE



Anti-seize sealer for threaded aluminum alloy parts exposed to gasoline, oil, water, air or vacuum. Good lubricating qualities. Will not harden or set. Will not freeze joints at low temperatures. Non-corrosive, insoluble in gasoline, oil or water.

1 Lb. Can ..... P/N 09-25200 ..... **$44.50**

LUBRIPLATE NO. 630AA



Multi-purpose lubricant. Forms a wearing film on working surfaces. Excellent protection against rust and corrosion. Recommended for controllable pitch props, wheel and magneto bearings, general greasing.

14 oz. Can..... P/N 09-25400 ..... **$13.75**

6 Lb.. Can..... P/N 09-25500 ..... **$64.75**

WD-40 PENETRANT/LUBRICANT



Displaces moisture on any metal surface, preventing rust, corrosion or oxidation of the surface. Used on switches pulleys, wheel housings, seam areas. Non-gumming, non-conductive—safe for all electrical systems. 12 oz. Spray P/N 09-00347..... **$8.70**

FAST DRYING GRAPHITE SPRAY 50605



Lubricates and protects - MCKAY Graphite Spray lubricates and leaves a fast drying graphite film on all automotive, marine and industrial parts before and after assembly. Keeps gears, valves, heads, shafts, rocker arms, engines, transmissions and all metal parts operating quietly and efficiently by reducing heat and friction. Keeps valves and valve seats carbon-free. Leaves a dark metal-like finish that adds a high quality look to all repair work. prevents rust, corrosion and shelf deterioration. Non-abrasive, non-flammable, non-corrosive, non-toxic. Harmless to Anti-freeze and coolants. 12 Oz. Spray P/N 09-25600..... **$4.35**

EZ TURN LUBRICANT (FUELUBE)



EZ Turn is a specialty lubricant/sealant used for fuel and oil line valves and is resistant to high temperatures. It is expecially effective where high octane fuels and aromatics are present. EZ Turn is also extremely efficient as a gasket paste and anti-seize agent. EZ Turn will not gum, crack or dry out. Each shipment is independently tested. Excellent for tapered plug valves, aircraft engine manufacturing, and marine applications. EZ Turn is the functional equivalent of fuel lube.

5 oz. tube..... P/N 09-00306..... **$11.85**

1 Lb. can..... P/N 09-00180..... **$22.75**

PERMATEX ANTI-SEIZE LUBRICANT



Prevents galling, seizing and corrosion of metal parts from 65°F to 2000°F. Acts as a low speed lubricant and maintains a corrosion-resistant coating at high temperatures. Makes aluminum and stainless steel joints disassemble quickly, easily. Excellent lubricant for press fit assembly. Works on industrial engine parts, boilers, outdoor motors, cables and internal combustion engines. Conforms to MIL-A-907D. Improves reliability at high temperatures. Saves time, labor. 1 oz. tube ..... P/N 09-28410..... **$4.50**

MICROLON PRECISION OILER



This oiler has the famous Microlon resin suspended in a lightweight oil to lubricate, penetrate and prevent rust. It is excellent for lubricating bearings, threaded parts, hinges, pocket knives, chains, rollers, fishing gear, chain saws, guns, garage doors..... just about anywhere that friction causes noise and resistance. Furnished in a handy pen size oiler with a pocket clip. .25 Fluid Ounces. P/N 09-00756..... **$7.95**

TRI-FLO TEFLON LUBRICANT



Penetrating lubricant with Teflon, corrosion inhibitors, moisture displacers and solvents to soften and remove dirt and corrosion. Will not cause corrosion. Use on aircraft cabin door hinges, landing gear hinges and struts. Loosens rusted bolts and other fasteners. 12oz. aerosol can P/N 09-42540..... **$16.90**

FOAMING SUPERIOR LUBRICANT



Tri-Flow is revolutionizing the way you clean, protect and lubricate all of your moving parts with the introduction of Foaming Superior Lubricant and Foaming Citrus Cleaner Degreaser. Tri-Flow's powerful foaming action clings to both horizontal and vertical surfaces to allow for deep penetration and accurate application. Tri-Flow Foaming products are ideal for use on bicycles, firearms, sporting equipment, manufacturing equipment, and more! P/N 09-02082..... **$12.50**

LIQUID WRENCH



A powerful blend of quick acting solvents to free parts frozen by rust, corrosion or paint. Harmless to metals. 11 oz. Aerosol

Spray..... P/N 09-25800..... **$3.65**

F-900 "TORQUE SEAL"



Inspection Lacquer is used in production on compression fittings, studs, nuts, parts, and assemblies after they are in proper torque or position. Widely used as "Anti-Sabotage Lacquer". Inspectors can visually detect any movement or tampering; Torque Seal becomes brittle and will crack. Excellent adhesion to all metals and to most other surfaces. Dries fast. Torque Seal is packaged in convenient 1/2 oz. poly squeeze tubes. Available in 6 high visibility colors.

Yellow..... P/N 09-25807 ..... **$1.97**
White ..... P/N 09-02411 ..... **$1.95**
Blue ..... P/N 09-25809 ..... **$1.95**
Green..... P/N 09-25808 ..... **$1.95**
Orange..... P/N 09-25810 ..... **$1.95**
Red..... P/N 09-02033 ..... **$1.95**

F-925 RESISTANT SEAL



F-925 "Skydrol" RESISTANT SEAL An inspection lacquer used in areas where aircraft hydraulic fluid (Skydrol) might come in contact with the seal. A fast drying material that has excellent adhesion to most substrates. It becomes hard and brittle so that visually any movement can be detected. Available in 1/2 oz. squeeze tubes. Color YELLOW and PINK

Yellow..... P/N 09-25811 ..... **$3.25**
Pink..... P/N 09-03486 ..... **$3.45**

F-1000 SENTRY SEAL



Used on compression fittings, studs, nuts, parts and assemblies after they have been set to proper tension or position. Service personnel or inspectors can quickly spot any changes or tampering with equipment. Sentry Seal has excellent adhesion to metals, including aluminum, magnesium, titanium, stainless and copper, and is non-corrosive to these metals. It is packaged in handy metal tubes. Squeeze the tube to extrude the Sentry Seal through the small hole to form a bead (narrow stripe) across the parts. The surface dries in about one minute, then it will start to polymerize and become brittle as it dries completely. Available in blue. P/N 09-28512..... **$4.90**

LOCTITE BLACK HIGH PERFORMANCE RTV SILICONE GASKET MAKER



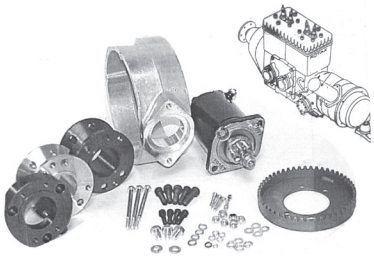
Loctite® 598™ Black High Performance RTV Silicone Gasket Maker retains high flexibility and oil resistance for longer gasket life. Temperature range is -75°F to 625°F (-59°C to 329°C) intermittent. Low odor, non-corrosive. Resistant to most chemicals and solvents. Fills gaps to 0.25". P/N 09-03532 ..... **$26.50**

LOCTITE QUICKSTIX C5-A COPPER ANTI-SEIZE



Loctite® QuickStix™ C5-A® Copper Grade Anti-Seize Stick provides a shield against high temperature seizing and galling. All mated parts, studs, bolts, flanges and gaskets, remove more easily and in cleaner and better condition. This product can be used on copper, brass, cast iron, steel, all alloys including stainless steel, all plastics and all non-metallic gasketing materials. Protects metal parts to 1800°F. Prevents rust, corrosion, seizing; eases disassembly. Fine or coarse threads. P/N 09-03533..... **$13.85**

GPL RIGHT ANGLE STARTER KITS

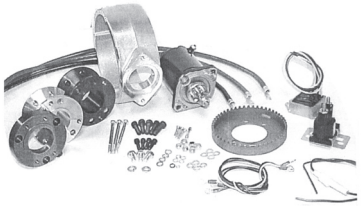


THE BASIC KIT:

The GPL Right Angle Starter is the ideal answer to many designs that have limited clearance on the starter end of the engine. Allows recoil starter to be re-installed and used as a back-up. Adds 4 1/2“ to overall length of engine. Can be used without recoil. Adds only 2 ½” when not using recoil. Recoil cover plate included. Adds minimal mass to crank preserving the cranks rotating characteristics. Spacer rings shown on left determine the engine type. Rotax 377,447,503,532 use blue inner spacer (flat) only when not reinstalling recoil. Add the silver outer spacer (tall standoff type) after the ring gear when using recoil starter.

For Rotax 582-618 use red inner spacer (flat) only when not reinstalling recoil. Add the red outer spacer (tall standoff type) when reinstalling the recoil starter. Total installed weight: 12 lbs. Notice: You must state engine & aircraft type when ordering.

Part #	Engine Type	Kit Type	Price
S113	For Rotax 377-447-503	Basic Kit	**$690.00**
S115	For Rotax 532-582-618	Basic Kit	**$689.00**



THE DELUXE KIT:

The Deluxe kit includes all parts shown including, voltage regulator, starter button, battery cables, solenoid, and more. Rotax 377,447,503,532 use blue inner spacer (flat) only when not reinstalling recoil. Add the silver outer spacer (tall standoff type) after the ring gear when using recoil starter. For Rotax 582-618 use red inner spacer (flat) only when not reinstalling recoil. Add the red outer spacer (tall standoff type) when reinstalling the recoil starter. Total installed weight: 12 lbs. Order 02-*53 or 02-54 extension nut for 503 oil injection. See parts listing below. Complete replacement parts available.

Part #	Engine Type	Kit Type	Price
S117	For Rotax 377-447-503	Deluxe Kit	**$829.95**
S119	For Rotax 532-582-618	Deluxe Kit	**$989.00**



5 GALLON SUPER-DUTY FUEL CONTAINER

Hard to find super fuel can includes thick wall polyurethane plastic container with oversize CNC machined screw-on cap. White color allows for easy viewing of fuel level. Includes rugged built-in handle and snap closed top venting port. Measures 9”x9”x21” high. Compact 9” square design allows for easy storage and transport of several cans at the same time. The last fuel container you will ever buy. Super-duty Fuel Container

P/N 13573 ..... **$41.50** ea.



Remove threaded plug in top of cap and install our custom shut-off valve and filler spout and fueling the most difficult high mounted fuel tank becomes and easy no-spill task.Custom filler spout with shut-off valve

P/N 13575 ..... **$19.75** ea.



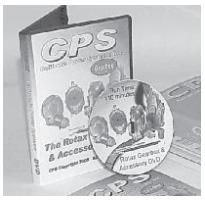
ACCU-MIX MIXING CONTAINER

This handy mixing can takes all the guess work out of fuel mixing. Just pour fuel in one side and fill with oil to the appropriate mark on the special side tank. Close both caps and turn the can on it’s side and the two chambers mix automatically. Constructed of durable white polyethylene for easy viewing. Measures any ratio from 15 to 1 to 50 to 1. One side marked in ounces and pints, the other side marked in quarts and gallons. Ideal for quick in the field refueling. No ratios to figure or messy mixing cups to clean. Capacity 1.5 US gallons.

P/N 8809 ..... **$19.95**

GPL REPLACEMENT PARTS

Part #	Description	Price
02-01	4” Cable Tie	**$0.10**
02-02	10” Cable Tie	**$0.30**
02-03	5/16”/8mm Hi Collar Split Lock Washer	**$0.50**
02-04	Black Rubber Insulating Boot	**$0.75**
02-05	6mm X 90mm Hex Head Cap Screw	**$2.35**
02-06	1/4” Hi Collar Split Lock Washer	**$0.50**
02-07	1/4-20 X 3/4” Socket Head Cap Screw	**$0.50**
02-08	1/4”/6mm Split Lock Washer	**$0.30**
02-09	5/16-18x 3/8” Hex Head Cap Screw	**$3.00**
02-10	5/16” Split Lock Washer	**$0.39**
02-11	8mm X 25mm Socket Head Cap Screw	**$1.59**
02-12	1/4-20 Nylock Hex Nut	**$0.50**
02-13	6mm Nylock Hex Nut	**$0.75**
02-14	5/16-18 X 7/8” Socket Head Cap Screw	**$1.18**
02-15	10-32 Phillips Head Pan Screw	**$0.40**
02-16	10-32 Nylock Hex Nut	**$0.49**
02-17	#10 Flat Washer	**$0.30**
02-18	6mm X 45mm Hex Head Cap Screw	**$1.43**
02-19	#16 Hose Clamps	**$4.75**
02-20	8-32 Hex Nut	**$0.30**
02-21	#8 Split Lock Washer	**$0.30**
02-22	Push Button Switch	**$19.95**
02-23	Rewind Starter Rope Guide Tube	**$7.81**
02-24	Battery Box Base	**$39.95**
02-25	Battery Box Cover	**$39.95**
02-26	Main Casting	**$165.00**
02-27	Ring Gear	**$82.50**
02-28	Inner Spacer	**$90.00**
02-29	Outer Spacer	**$121.00**
02-30	Starter Motor	**$285.00**
02-31	Wiring Harness W/Regulator	**$19.00**
02-32	Blue Wire	**$3.75**
02-33	26” Red Wire	**$12.75**
02-34	57” Red Wire	**$19.94**
02-35	37” Black Wire 4 Gauge	**$12.99**
02-36	10” Black Wire 14 Gauge	**$3.50**
02-37	Solenoid	**$19.50**
02-38	1” X 4” Inlet Hose Tube	**$5.75**
02-39	6mm X L2mm Hex Head Cap Screw	**$0.70**
02-40	Loctite 242 Threadlocker	**$2.35**
02-41	Copper-Shield Conductor	**$7.50**
02-42	Heat Shield	**$6.00**
02-43	Installation Instructions	**$7.00**
02-44	Regulator/Rectifier - 4 Wire	**$53.32**
02-47	Cover Plate	**$8.33**
02-48	11’ Red Wire 4 Gauge	**$49.04**
02-49	24” Blue 18 Gauge Wire	**$7.95**
02-50	24” Yellow 18 Gauge Wire	**$7.95**
02-51	12” Black Wire 4 Gauge	**$7.43**
02-52	24” Black Wire 4 Gauge	**$8.14**
02-53	503 oil injection nut w/ recoil	**$29.95**
02-57	503 oil injection nut w/o recoil	**$29.95**



ROTAX GEARBOX & ACCESSORY DVD VIDEO

This DVD is designed to illustrate how many of the systems on your powerplant are installed, maintained, and serviced. For individuals new to Rotax aircraft engines this DVD will offer a unique look into what goes into setting up and maintaining a trouble free powerplant. This video, the third in our series of instructional DVD's, takes you through the service, inspection, and installation of all popular Rotax Gearboxes, electric starters, carburetors, cabling, and fuel pumps.

We show you how to completely disassemble and service every part on all four Rotax gearboxes in a clear and concise presentation that only a video can provide. This includes a detailed illustration of what tools are needed to perform the work as well as ways to accomplish certain tasks with a minimum of first time frustration. Just the kind of inside knowledge you can't find in printed literature. If you are building a new aircraft or want to upgrade to another gearbox, we show you exactly how to install any drive using all proper torque valves, Loctites, and sealants.

The on-screen copy even gives you the wrench size you need for every step. After illustrating all popular gearboxes we show you how to install a Rotax electric starter.



DVD WITH NEW ENGINES

A CPS exclusive - installation DVD. Expert advice and details on how to set-up new engines.
75 minutes.Part # DVDInstall...94 min.....**$38.95**

CPS REBUILD VIDEOS



Our series of Rebuild DVD's detail every step in rebuilding Rotax 447-503 or 582 engines. A third video shows how to service, inspect, and install all Rotax gearboxes, Carburetors, Starters, Fuel pumps.
Part #DVD503 .....447-503...109 min **$39.95**
Part #DVD582 .....582...113 min.....**$39.95**
Part # DVDGB .....All Gearbox...116 min..**$29.50**
Part # DVDInstall..94 min.....**$38.95**

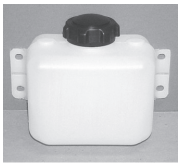
Features:
Easy Access: Navigating your DVD is easy with our handy chapter and scene index booklet showing every screen title in chronological order. On-screen menus guide you quickly to any subject matter with a push of your remote control. Our DVD's play on most any DVD player in any part of the world and are CSS Encrypted for piracy protection.

What's Included in the package:
1. All our DVD's include a chapter and scene index booklet showing every screen title in chronological order making navigation to a particular screen quick and easy. A Tool List gives you a detailed checklist of the items you need to do the work.
2. A 12" x 15" Heavy-duty plastic laminated checklist gives you all inspection tasks (Rotax Recommended Scheduled Maintenance and time intervals plus a handy pre-flight checklist.
3. An 8-1/2" x 11" Heavy-duty plastic laminated chart gives you every torque value in inch pounds, foot pounds, and Newton-Meters for any Rotax two-stroke. Wrench size, bolt size, Loctite, and sealant for every fastener is clearly listed. Both our durable plastic laminated checklists are ideal for shop or cockpit use.



ROTAX OIL INJECTION RESERVOIR WITH LOW LEVEL SENSOR

This all new Rotax factory designed part is ideal for mounting on firewall or with special brackets provided attached right to the cylinder head. Translucent white color easily shows fluid level.The 2.5 liter tank holds enough oil to mix with over 35 gallons of main tank supply. Fly for nearly 10 hours without refilling. When the level does get low a built-in sensor signals a dash light (not included) warning you it's time to refill. Sensor system uses 12 volts D/C. Available with mounting brackets for mounting to 532-582 directly over exhaust manifold. Can also be used on Rotax 503, but does require some user modifications. Reservoir must be located above the pump for gravity feed. Full kit includes reservoir, 24" of line, mounting hardware, in line filter, low-level sensor, and vented cap. Rotax
Reservoir System P/N 881-465 .....**$174.95**
Reservoir With Sensor, Tubing, Filter, Cap, And Mounting Studs Only
P/N 881-460 .....**$150.99**
Vented Replacement Cap only P/N 874-105 .....**$24.40**



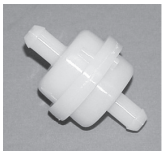
2 QUART RESERVOIR

This high density polyethylene tank is ideal for Oil Injection Reservoir or Coolant Overflow. Translucent white color easily shows fluid level. Tank is blown molded with a ¼" thick seamless construction and includes rugged mounting tabs that mount to any flat surface. Includes a threaded 2-1/4" vented cap with tether to prevent loss. Sealed tank without drain. Bottom access is easy for either push in fittings or threaded bulkheads with plenty of access thru large cap opening. Order separately. Tank measures approx. 5" high x 6' wide x 4" thick. Requires 8-1/2" wide flat surface for mounting.
Weight 8 oz. P/N 13581 .....**$21.85**
Replacement Cap P/N 30260 .....**$9.95**



4 QUART OIL OR WATER RESERVOIR

This high density polyethylene tank is ideal for Oil Injection Reservoir or Coolant Overflow. Translucent white color easily shows fluid level. Tank is blown molded with a ¼" thick seamless construction and includes rugged mounting tabs that mount to any flat surface. Includes a threaded 2-1/4" vented cap with tether to prevent loss. Sealed tank without drain. Bottom access is easy for either push in fittings or threaded bulkheads with plenty of access thru large cap opening. Order separately. Tank measures approx. 8-1/2" high x 6' wide x 4" thick. Requires 8-1/2" wide flat surface for mounting.
Weight 20 oz P/N 13583 .....**$31.50**
Replacement Cap P/N 30260 .....**$9.95**



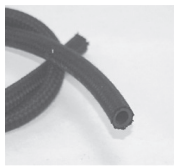
GENUINE ROTAX OIL INJECTION FILTER

Genuine Rotax factory replacement filter for Rotax injection system #881-465. Fits 956-230 Injection hose perfectly.
P/N 956-330 .....**$28.49**



COOLANT RECOVERY – OIL INJECTION RESERVOIR

This white plastic tank and steel rack holder is ideal for coolant recovery. Translucent white color easily shows fluid level.Wire mounting cage cradles tank securely, while offering a wide range of mounting options. See through feature allows fluid level to be seen easily. Can also be used as an oil injection reservoir. Side port accepts 3.8" i.d. tubing.
P/N 1609 ..... **$14.95**



KEVLAR COVERED FIRE-RESISTANT HOSE

Genuine Rotax factory replacement for oil injection supply line. Also used on Rotary Valve supply lines. Completely fire-resistant. Sold in one meter lengths only. Beware of cheap imitations
P/N ..... **$51.29/m.**



2-1/2 GALLON FUEL TANK

This high density polyethylene tank is ideal for Fuel Tank in tight places. Tank is blown molded with a ¼" thick seamless construction. Translucent white color easily shows fluid level. Includes a threaded 2-1/4" vented cap with tether to prevent loss. Sealed tank without drain. Bottom access is easy for either push in fittings or threaded bulkheads with plenty of access thru large cap opening. Order separately. Tank measures approx. 8" high x 13 " long x 6" thick.
Weight: 30 oz. P/N 13585 .....**$48.90**

SAFETY WIRE



Available in Type 302/304 stainless steel (soft temper) per MS20995. Also, in soft annealed brass per specification QQ-W-321, Type A.Stainless steel safety wire furnished in convenient 1 lb. dispensing container. Annealed brass safety wire is furnished in a convenient 1 lb. dispensing container.

Wire Dia. In.	Wire Type	Part No.	Price Per lb.
.020	Stainless Steel	05-02684	**$9.85**
.025	Stainless Steel	05-06831	**$8.75**
.032	Stainless Steel	05-02685	**$7.95**
.032	Brass	05-02686	**$18.75**
.041	Stainless Steel	05-02687	**$7.95**
.041	Brass	05-06600	**$18.65**

Less 10% on orders for 10 spools, 15% on 25 spools, 20% on 50 spools or more. May be assorted.

A-700 BUTTON LOCK DASH CONTROL
(7/16-20 UNF-2A THREADS / SOLID WIRE END)



Provides a 10-lb. locking force for light and medium service applications. Black or Red anodized aluminum knob with aluminum release button. Has .062" dia. stainless steel wire core in flexible metal casing. May be shortened as req. Max. travel 3-1/2". Order by Part No.

Knob Color	Length 6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-13172	05-13184	05-13196	05-13120
Red	05-13272	05-13284	05-13296	05-13220
Price	**$53.95**	**$54.85**	**$55.50**	**$63.75**

Replacement Ball Bearing for A-700 Controls
P/N 05-02618 ..... **$2.00**

A-730 GLIDE FREE CONTROL
(SOLID WIRE END)



Simple design for push-pull operation with low friction characteristics. Has .050" dia. stainless steel wire core in flexible metal casing with polyethylene liner. May be shortened as required. Max. travel 3-1/2". Available with black or red plastic knob. Order by Part No.

Knob Color	Length 6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-13672	05-13684	05-13696	05-13620
Red	05-13772	05-13784	05-13796	05-13720
Price	**$29.75**	**$30.50**	**$31.75**	**$36.65**

A-740 RATCHET CONTROL
(SOLID WIRE END)



Ratchet design provides detented positions under vibration conditions. Simple push-pull operation. Has .050" dia. stainless steel wire Core in flexible metal casing with polyethylene liner. May be shortened as required. Max. travel 3-1/2". Available with black or red plastic knob. Order by Part No.

Knob Color	Length 6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-14072	05-14084	05-14096	05-14020
Red	05-14172	05-14184	05-14196	05-14120
Price	**$31.50**	**$32.50**	**$33.50**	**$38.85**

A-920 PUSH-PULL CONTROL
(10-32 THREADED END)



This control has 10-32 threaded ends with 8° swivel & 3-3/8" stroke. It has Teflon casing liner for use in high-temperature areas such as engine compartments, & .078" dia. stainless steel inner cable to minimize back-lash. Stocked in the following lengths. Order by Part No.

Control Length	Part No.	Price	Control Length	Part No.	Price
36"	05-12736	$42.50	96"	05-12796	**$49.75**
48"	05-12748	$44.75	108"	05-127108	**$51.65**
60"	05-12760	$45.50	120"	05-127120	**$56.90**
72"	05-12772	$46.90	132"	05-127132	**$58.75**
84"	05-12784	$48.65	144"	05-127144	**$59.65**

BUTTON TYPE DASH CONTROL



Button Type Dash Control designed for use with many control system applications. Easily installed. Operates smoothly. All adjustable parts are metal. 7/8" Dural button on 3/16" diameter shaft. Maximum travel is 2". Furnished in 5 ft. and 8 ft. length. May be shortened. Order Inserts separately.
5 Ft. Dash Control .....P/N 05-14200 ..... **$17.70**
8 Ft. Dash Control .....P/N 05-14300 ..... **$21.55**



INSERTS ONLY - Round pressure-sensitive labels, 3/4" dia. White lettering on black background. Order by part number. Basic P/N is 05-144. Last two digits of P/N are as shown in above illustration.
Example: 05-14460 is "Starter" ..... **$0.55 Ea**

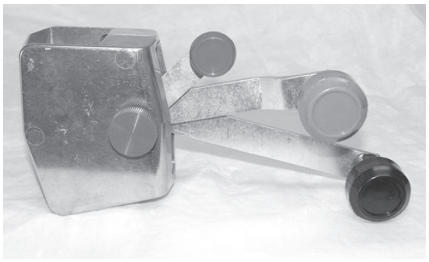
ROTAX DUAL CARBURETOR THROTTLE CONTROLS



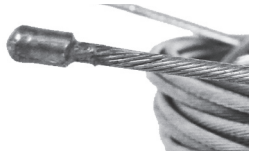
Allows a neat, clean throttle installation without a clunky splitter box. Supersmooth friction lock, heavy duty 0.062 inch stainless steel inner wires. Standard knob is egg shape and ball knob is sphere shape.

Description	Part No.	Price	Description	Part No.	Price
4' Std Knob	05-04385	**$147.95**	6' Std Knob	05-04386	**$145.95**
6' Std Knob	05-04387	**$156.85**	4' Ball Knob	05-04388	**$139.95**
6' Ball Knob	05-04389	**$147.95**	8' Ball Knob	05-04390	**$156.85**

ACS THROTTLE QUADRANTS



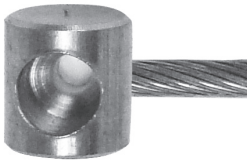
Available in two lever designs. The 2-lever control has black plastic "Throttle" knob and red "Mixture" knob. The 3-lever control has blue "Prop" knob in addition to the throttle and mixture knobs. Built-in friction lock. Levers have 2-1/2" travel. Quadrants fit on left or right side of cockpit and can be used in tandem. Complete with aluminized Mylar knob inserts. Ends of throttle and prop levers have 3/16" dia. holes for attachment of push-pull controls with clevis terminals. End of mixture lever has .076" dia. hole to accept solid wire control such as Bowden cable. Made in the U.S.A.
Two-Lever Quadrant ..... P/N 05-00960..... **$39.85**
Three-Lever Quadrant (pictured)..... P/N 05-00961..... **$51.75**



10' THROTTLE OR CHOKE INNER WIRE

Measures .064" (1.5mm) diameter 1 x 19 construction. #7417 solder swage factory installed on one end only. Includes 1 @ extra #7417 and #7415 swages loose in package. Ideal for Bing or Mikuni Carbs. #7417 swage fits Carb slide or choke plunger perfectly. Length 120".

P/N 7407.....**$7.65**



ROTAX 912-914 10' CHOKE WIRE

Measures .064" (1.5mm) diameter 1 x 19 construction. #7416 solder swage factory installed on one end only. Includes 1 @ extra #7416 and #7415 swages loose in package. Ideal for Bing Carbs on 912 (order 2). #7416 swage fits 912-914 Carb choke arm perfectly.

P/N 7408.....**$6.50**



THROTTLE AND CHOKE WIRE

Measures .064" (1.5mm) diameter 1 x 19 construction. Same as #7407. Ready to accept solder swage #7417. Fits inside either #7403 or #7405 housing. Sold by the foot or in 50' rolls.

P/N 7409.....**$0.15** ft.



THROTTLE HOUSING

For #7407 or #7411 inner wire. Rectangular chrome steel wire core with abrasion resistant black cover. Measures .190" (5mm) od. by .090" i.d. Our most popular housing for throttle and chokes. Sold by the foot.

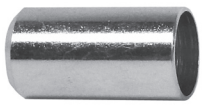
P/N 7403.....**$0.55** ft.



HEAVY-DUTY THROTTLE HOUSING

For #7407 or #7411 inner wire. Rectangular chrome steel core with nylon inner liner. Abrasion resistant black cover. Measures .215" (5.5mm) od. by .086" i.d. Sold by the foot.

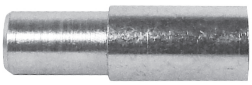
P/N 7405.....**$1.35** ft.



STEEL FERRULE

Slips over #7403 throttle housing. Can be crimped or rolled for a permanent installation. .220" od. by .445" long. Drilled for .064' wire.

P/N 7413.....**$0.56** ea.



STEP-DOWN STEEL END FERRULE

For use with #7405 heavy-duty housing. Small end fits all other fittings. Can be crimped or rolled for a permanent installation. Measures .787" long. Drilled for .064" wire.

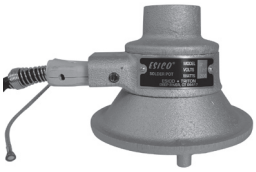
P/N 7414.....**$0.69** ea.



1/16" STOP SWAGE

For use with #7407 or #7411 Control wire. Can be installed with standard swaging tools. Made of a compressible copper alloy. Will not fit Card slide or choke plunger when swaged. See part #7417.

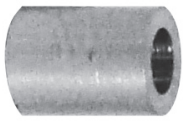
P/N 7415.....**$0.24** ea.



SOLDER POT

used for installing #7417 solder swages or any connector that needs to be dipped soldered. Just flux line with swage installed and dip for 10 seconds. Includes 48" 110 volt power cord. Draws under 250 watts. A must for the serious homebuilder.

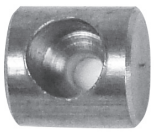
P/N 7425.....**$249.95**



1/16" SOLDER STOP SWAGE

For use with #7407 or #7411 inner control wire. Must be properly peened and dip soldered to create a secure bond. Requires solder pot, etc. for installation. See P/N 7425 above. Fits Mikuni and Bing Carb slides and choke plungers perfectly.

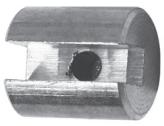
P/N 7417.....**$0.56** ea.



582-618 OILER SWAGE

Fits the oil injection pump arm precisely. .250" od. x .360" length. Drilled for #7411 inner wire.

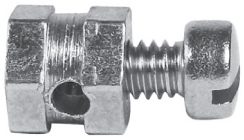
P/N 7416.....**$0.95** ea.



503 OILER SWAGE

Fits the oil injection pump arm precisely. 5/16" od. x 3/8" length. Drilled for #7411 inner wire.

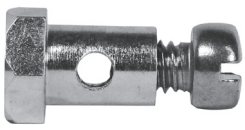
P/N 7418.....**$1.39** ea.



WIRE STOP

Is ideal for securing cable ends. Removable and completely reusable. For use on any size cable up to 3/32". Measures 1/4"OD x 6x32 threads x 3/8" long.

P/N A2360 .....**$0.85** ea.



WIRE SWIVEL

The same as above with end collar. Ideal swiveling anchor for brake or throttle cables up to 3/32" Measures 1/4" OD x 6x32 threads x 1/4" long.

P/N A2361 .....**$0.75** ea.



MIDWAY CABLE ADJUSTER

For use the #7403 cable housing. Measures 2.75" but extends to 3.375" to remove slack from cable housing. Positive locking nut maintains adjustment.

P/N 7421.....**$3.95**



CABLE ADJUSTER BULKHEAD

Adjuster accepts either #7403 or #7405 housing wiht ferrule installed. Used where cable meets oil injection pump or where an adjustable end is needed. Includes extra locking nut. Measures 1.675" long.

P/N 8121.....**$4.65**



BAR SOLDER

1 1/2 lbs. of the finest solder available to secure end fittings. Enough to last for years.

P/N 7427.....**$36.75**

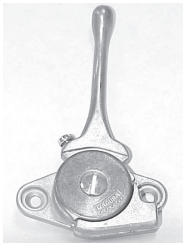


CABLE FLUX

For soldering cables. 3 oz. bottle enough for up to several hundred cables.

P/N 7429.....**$12.95**

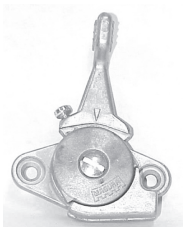
AP



CPS THROTTLE LEVER

The perfect answer to any throttle and choke operation. The compact cast aluminum control allows easy access for standard casing and 1/16" control wire. Eliminates the need for expensive and bulky quadrants that require special mounting and end fittings. Block is countersunk to accept throttle casing as shown. Inner wire wraps smoothly around wheel providing a full 2" travel (Bing Carbs need 1 1/2" travel) in less than 1/2 revolution of the handle. Set screw shown firmly anchors wire. Back up swage makes for a fail-safe and completely variable length and design. Precision tension adjusting makes for a throttle that positively stays where you set it. Mounts to any 3/16" or 6mm fasteners. Bolt centers are 1 7/8" Handle measures 3" long. A precision made control manufactured in Germany.

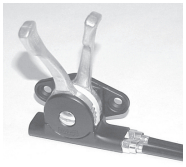
P/N 7109 ..... **$18.50**



COMPACT THROTTLE LEVER

This compact aluminum control allows easy access for standard casing and 1/16" control wire. Eliminates the need for expensive and bulky quadrants that require special mounting and end fittings. Block is countersunk to accept throttle casing as shown. Inner wire wraps smoothly around wheel providing a full 2" travel (Bing Carbs need 1 1/2" travel) in less than 1/2 revolution of the handle. Set screw shown firmly anchors wire. Back up swage makes for a fail-safe and completely variable length and design. Short handle controls precision tension adjuster that makes for a throttle that positively stays where you set it. Mounts to any 3/16" or 6mm fasteners. Bolt centers are 1 7/8" Handle measures 2" long. A precision made control manufactured in Germany.

P/N 7111 ..... **$18.75**



DUAL HANDLE DUAL CHOKE CONTROL

This lightweight aluminum control allows for precise control over both Carb chokes in a single compact unit. Uses precision gear driven movement that accepts #7403 or #7405 casing and 1/16" control wire. Uses #7417 solder swage to mate with internal gear slug. Center screw allows for precise tension control of levers. Ideal for an operators that knows how to diagnose an engine problem with choke controls. Provides ¾" travel range. Not designed for throttles. Mounts with any 3/16" or 6mm fasteners. Mounts to any flat vertical surface. Bolt centers are 1 7/8". Handle measures 2-1/2" long. A precision made control manufactured in Germany.

P/N 7115 ..... **$49.95**



SINGLE HANDLE DUAL CHOKE CONTROL

Similar to #7115 with single handle controlling both choke cables. Uses precision gear driven movement that accepts #7403 or #7405 casing and 1/16" control wire. Uses #7417 solder swage to mate with internal gear slug. Engaged with "Choke" .Provides 1" travel range. Not designed for throttles. Mounts with existing bolt thru center. Mounts to any flat vertical surface. Handle measures 1-1/2" long. A precision made control manufactured in Germany. P/N 7117 ..... **$29.75**



SHORT JUNCTION BLOCK

for dual carb linkage on any Rotax engine. Three gang outlet can be used dual carbs or with three way oil injection and dual carbs. Converts a single throttle line into as many as three lines. Measures 5/8" x 3 1/2" long. Provides 2" of slide travel...

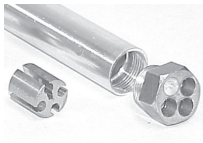
P/N 7703 ..... **$11.50**

CABLE LUBER SYSTEM

Don't take chances with sticking throttle, brake, and choke cables. Prevent cable freezing and extend cable life by lubricating cable with the "Cable Luber" system. Special precision machined lube block allows ease of lubrication between cable and housing without removing the cable. Just attach the Cable Luber to either end of the cable and insert nozzle from aerosol can. Specially designed seals in block force lube down inside cable housing. A must for the serious mechanic. Cable Life Aerosol lubricates and rustproofs moving parts even at temperatures far below -50 degrees.



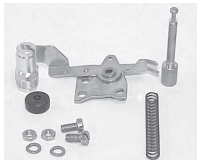
Luber Block..... P/N 7431… **$12.65**
6.5 oz Spray Can..... P/N 7433… **$4.00**
Complete Kit Part .... P/N 7435 ..... **$18.95**



LONG JUNCTION BLOCK

Same as above with new long reach. Same three gang design with a full 2 3/4" slide travel. Assures full throttle opening is not limited to slide travel. Custom mounting bracket is available for mounting to any flat surface. Measures 5/8" x 4 1/4" long.

P/N 7704 ..... **$12.50**



BING LEVER CHOKE KIT

Includes all parts to convert cable choke Carbs to manual lever actuation. Includes all parts shown. Carb must have choke provision.

P/N 7658 ..... **$41.85**



BING CARB CABLE CHOKE KIT W/ 8' CABLE

Includes all parts shown above plus 8' Cable Housing and inner wire with #7417 solder swage installed on one end. Ideal for single Carb applications. Does not include actuator handle. Order separately.

P/N 995-660 ..... **$81.40**



LONG JUNCTION BLOCK MOUNTING BRACKET

Lightweight Steel Bracket is ideal for mounting a single #7704 Long Junction Block to any flat surface. Firmly mounting junction block stabilizes linkage for more precise operation. Cables slip through the specially cut slots for easy access. End caps pass through bracket holes and thread into center barrel. An inexpensive and clean answer to throttle line tangle. Stamped from chromoly steel and burnished for a bright finish. Measures 3 3/4" between ears.

P/N 7657 ..... **$8.49**

HOOKS & CARABINERS

Plated Formed Steel Spring Loaded Hooks

Part #	B2440-7
Diameter Stock	7/16"
Overall Length	4 3/4"
Snap Opening	7/8"
Tensile Strength lbs.	2500
Price	**$1.84**



SS Rigid Eye Snaps

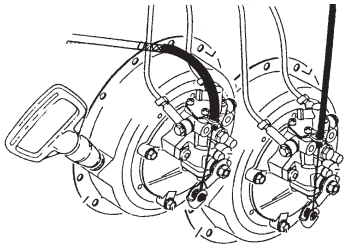
Part #	B249S-0	B249S-1
Size Eye	3/8"	5/8"
Length Overall	2 1/8"	2 3/4"
Snap Opening	3/16"	3/8"
Price	$3.30	$4.05
Price	**$1.84**	**$4.05**



Formed Stainless Steel Spring Hooks

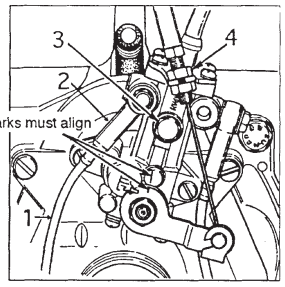
Part #	B2450-3	B2450-4	B2450-5	B2450-6	B2450-7
Size Eye	3/16"	1/4"	5/16"	3/8"	7/16"
Length Overall	2"	2 1/2"	3 1/8"	4"	4 3/4"
Snap Opening	1/4"	5/16"	3/8"	1/2"	5/8"
Tensile Strength lbs.	500	600	1200	1700	2125
Price	**$1.98**	**$2.20**	**$3.75**	**$6.50**	**$9.75**





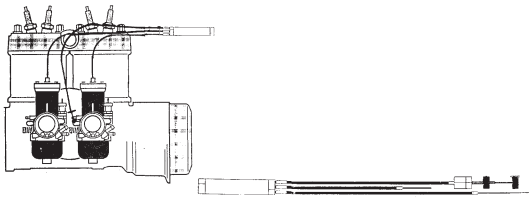
CPS THROTTLE & OIL INJECTION CABLES

Nearly all new Rotax engines will be equipped with oil injection pumps. These pumps require a dedicated cable actuator to move the regulator arm. Our cable sets are a finished product which means you have no lengths to estimate or ends to install. Rotax 503 oil injection pumps are mounted on the recoil or mag end electric starter cover as shown in the top illustrations. Rotax 582-618 engines have the pump located directly between both carbs as shown in the second illustration. These finished assemblies install in minutes and offer years of trouble free service. With our large selection of configurations, most any application can be accommodated with a minimum of cabling and tangle. Cables can be ordered as a matched set or any single cable separately.



The picture at the left shows the alignment marks which must be aligned at 3000 rpm. The Oil injection cables listed here are equipped with special adjusters that allow you to fine tune your system to exact factory specs.

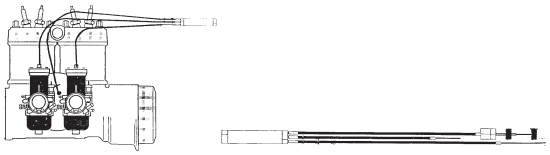
Our longer Junction Blocks provide extra cable travel insuring full open throttle is not limited by slide travel. The entire process of opening throttle slides and actuating the oil injection pump is smoothly transmitted down a single cable to the cockpit throttle handle.



ROTAX 582-618 SHORT REACH SYSTEM ENGINES W/ PLUGS UP

Short Reach System - Locates Slider Near Cylinder Head

#7705 Mag Carb Cable - 10.5" Housing **$8.95**
#7709 PTO Carb Cable - 12" Housing..... **$8.95**
#7761 Oil Injection Cable - 10.5" Housing **$12.95**
#7704 Long Junction Block - 4 1/4" **$3.85**
Complete System Part #7706 ..... **$42.50**



ROTAX 582-618 LONG REACH SYSTEM ENGINES W/ PLUGS UP

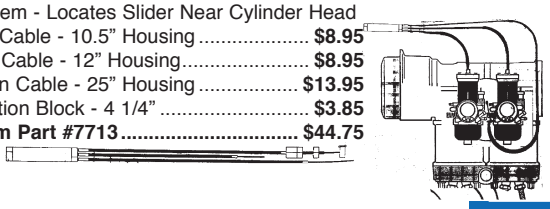
Long Reach System - Locates Slider Away From Engine Block

#7721 Mag Carb Cable - 18" Housing **$8.85**
#7723 PTO Carb Cable - 22" Housing..... **$8.65**
#7725 Oil Injection Cable - 19" Housing **$13.95**
#7704 Long Junction Block - 4 1/4" **$3.85**

ROTAX 582-618 ENGINES W/ PLUGS DOWN

Short Reach System - Locates Slider Near Cylinder Head

#7705 Mag Carb Cable - 10.5" Housing **$8.95**
#7709 PTO Carb Cable - 12" Housing..... **$8.95**
#7712 Oil Injection Cable - 25" Housing **$13.95**
#7704 Long Junction Block - 4 1/4" **$3.85**
Complete System Part #7713 ..... $44.75

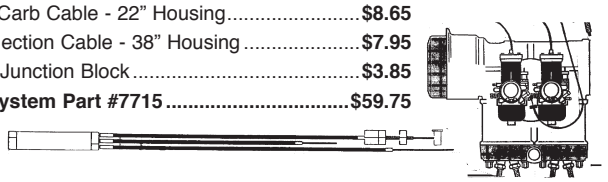


AP

ROTAX 582-618 ENGINES W/ PLUGS DOWN

Long Reach System - Locates Slider Away From Engine Block

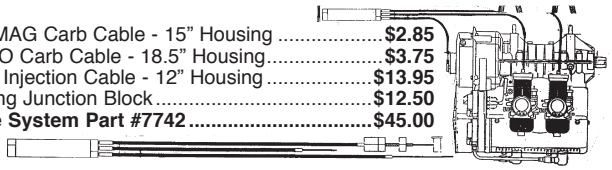
#7721 Mag Carb Cable - 18" Housing **$8.85**
#7723 PTO Carb Cable - 22" Housing..... **$8.65**
#7714 Oil Injection Cable - 38" Housing **$7.95**
#7704 Long Junction Block **$3.85**
Complete System Part #7715 ..... $59.75

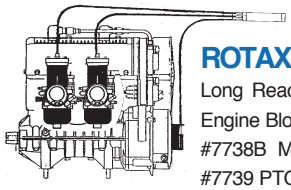


ROTAX 503 ENGINES W/ PLUGS UP

Long Reach System - Locates Slider Away From Engine Block

#7738B MAG Carb Cable - 15" Housing **$2.85**
#7739 PTO Carb Cable - 18.5" Housing..... **$3.75**
#7741 Oil Injection Cable - 12" Housing **$13.95**
#7704 Long Junction Block **$12.50**
Complete System Part #7742 ..... $45.00

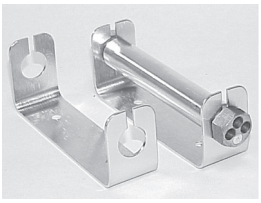




ROTAX 503 ENGINES W/ PLUGS UP

Long Reach System - Locates Slider Away From Engine Block

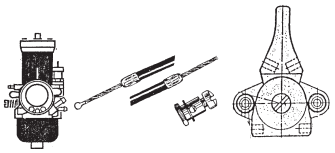
#7738B MAG Carb Cable - 15" Housing..... **$2.85**
#7739 PTO Carb Cable - 18.5" Housing..... **$3.75**
#7741 Oil Injection Cable - 12" Housing..... **$13.95**
#7704 Long Junction Block **$12.50**
Complete System Part #7742..... $45.00



LONG JUNCTION BLOCK MOUNTING BRACKET

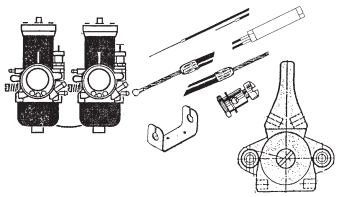
Lightweight Steel Bracket is ideal for mounting a single #7704 Long Junction Block to any flat surface. Firmly mounting junction block stabilizes linkage for more precise operation. Cables slip thru the specially cut slots for easy access. End caps pass thru bracket holes and thread into center barrel. An inexpensive and clean answer to throttle line tangle. Stamped from chromoly steel and burnished for a bright finish. Measures 3 3/4" between ears.

P/N 7657 ..... **$8.49**



CHOKE CABLE SYSTEMS

Being able to apply choke from the cockpit is an important tool used to diagnose engine problems. (See Part #10 "Tuning the Bing Carburetor" located in the rear of this Catalog.) In an effort to accommodate most any application our choke kits can extend to a full 10' and can be shortened to any length quickly and easily. Our dual direction control lever #7111 provides plenty of travel and makes for easy installation because it mounts to any flat surface and accepts a housing coming from either direction. Just trim outer housing to desired length, thread inner wire through handle, tighten locking screw and cut off excess wire. Available for single or dual Carbs to fit most any application. You can run both chokes from a single handle or activate both chokes separately for diagnostic purposes. Dual Carb systems use the standard junction block that can be mounted to any flat surface with the #7657 mounting brackets.



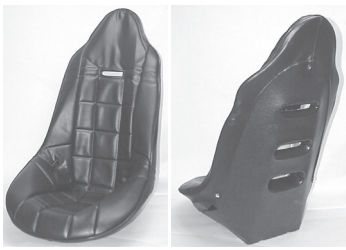
SINGLE CARB CHOKE W/ #7111 CONTROL

Order #995-665 separately for Carburetor internal parts. Ideal for single choke actuation for diagnostic purposes. Order two for dual Carb dual switch applications.
#7755 Kit includes the following:

1@ #7407 ..... 10' Inner wire with #7417 swage on one end
10' #7403 ..... Cable housing
2@ #7413 ..... Ferrule End Cap
1@ #7111 ..... Dual Direction Control
1@ #A2361 ..... Wire Stop Swivel
1@ #7415 ..... Stop Swage
P/N 7755 ..... 10' Cable Housing w/ Switch **$23.50**

DUAL CARB CHOKE

w/ Junction Block & #7111 Control
Runs both chokes from a single switch. Order #995-665 separately for Carburetor internal parts.
#7758 Kit includes the following:
1@ #7407 ..... 10' Inner wire with #7417 swage on one end
10' #7403 ..... Cable housing
2@ #7413 ..... Ferrule End Cap
1@ #7111 ..... Dual Direction Control
1@ #A2361 ..... Wire Stop Swivel
1@ #7415 ..... Stop Swage
1@ #7704 ..... Junction Block
1@ #7657 ..... Mounting Bracket
1@ - 12" ..... Cable with swage on both ends
1@ - 8" ..... Cable with swage on both ends
P/N 7758 ..... 10' Cable Housing w/ Switch & Slider .. **$47.75**



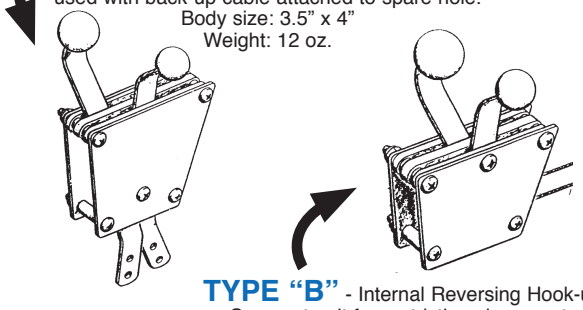
HIGH BACK MOLDED PLASTIC SEAT

These CPS seats are lightweight yet incredible strong. Contoured high back design gives excellent lower back support and rear head protection. The seats are made from double-walled, impact-absorbing plastic, so they can't rust. The seat color is molded in so it will not fade, peel, or scratch off. Internal molded openings on sides, top and bottom allow access for belt and shoulder beats making for an added degree of safety. Molded flat 10" x 13" bottom has six metal treaded bosses for easy mounting to any flat surface or cross tube. Matching thick padded seat cover has reinforced openings for lap, shoulder, and crotch belts. Measures 32" High, 20" wide, 22" deep. Weight is 11 lbs. Order seat cover separately. Available in black only.
P/N 13603 ..... High back Molded Plastic Seat ... **$46.75**
P/N 13605 ..... Padded Seat Cover Only ... **$45.00**

CPS THROTTLE QUADRANTS

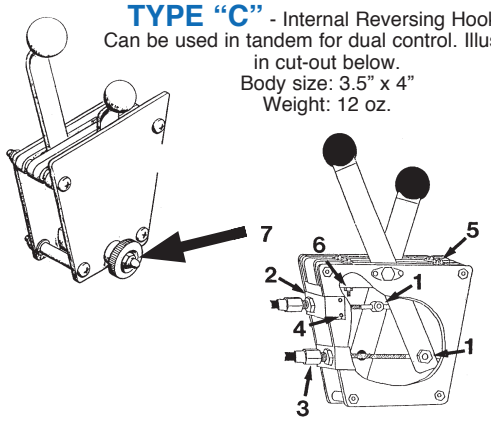
CPS offers a wide selection of throttle and choke quadrants to give you maximum flexibility to custom design your particular system. All plates and arms are constructed of light weight 0.125" 2024T-3 aluminum. Phonemic spacers provide for smooth operation and positive friction settings. Stop screws can easily be installed as shown for positive control of both forward and back stop positions. An optional Friction Control Knob (part #8129) can also be installed for easy in flight control of handles. Also available with optional U-shaped adapters that support cable end adjusters to support our standard cable and housing. Available in single handle or two handle units. Three handle units available on special request
Contact CPS Customer Service at 1-800-247-9653.

TYPE "A" - External Reversing Hook-up
Can be used in tandem for dual control. Can also be used with back-up cable attached to spare hole.
Body size: 3.5" x 4"
Weight: 12 oz.



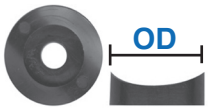
TYPE "B" - Internal Reversing Hook-up
Compact unit for restrictive placements
Body size: 3.5" x 4"
Weight: 10 oz.

TYPE "C" - Internal Reversing Hook-up
Can be used in tandem for dual control. Illustrated in cut-out below.
Body size: 3.5" x 4"
Weight: 12 oz.



Single Handle Type "A" ..... P/N 8103 ..... **$52.50**
Single Handle Type "B" ..... P/N 8105 ..... **$55.00**
Single Handle Type "C ..... P/N 8107 ..... **$85.00**
Two Handle Type "A ..... P/N 8109 ..... **$54.75**
Two Handle Type "B ..... P/N 8111 ..... **$64.75**
Two Handle Type "C ..... P/N 8113 ..... **$67.75**

Throttle Quadrant Accessories:
(2) Adapter U-Bracket - single handle ..... P/N 8117 ..... **$6.75**
(2) Adapter U-Bracket - two handle two required ..... P/N 8119 ..... **$2.95**
(3) Cable Adjuster bulkhead ..... P/N 8121 ..... **$4.65**
(4) Pop-rivet (four required) ..... P/N 8123 ..... **$0.06**
(5) screw 6-32 x 1 (four required) ..... P/N 4707 ..... **$0.10**
(6) 6-32 Locknut (four required) ..... P/N 4709 ..... **$0.03**
(7) Friction Control Knob add to any unit ..... P/N 8129 ..... **$7.50**
Single handle adapter kit (items 1-6) ..... P/N 8125 ..... **$12.50**
Two handle adapter kit (items 1-6) ..... P/N 8127 ..... **$34.75**
includes two brackets, two bulkheads, and attaching hardware



SUPER-TOUGH STANDOFF SADDLES -TYPE II

P/N	Max Air #	Fits	O.D.	Hole	HT	Price
05-02052	S01-14	1.000	1.000	.266	.188	**$1.73**
05-02055	S01-24	1.500	1.000	.266	.188	**$1.83**
05-02056	S01-84	1.625	1.000	.266	.188	**$1.83**
04-00922	S01-44	1.750	1.000	.266	.188	**$1.68**
05-02060	S01-74	1.875	1.000	.266	.188	**$1.83**
05-02062	S01-94	2.000	1.000	.266	.188	**$1.83**
05-02064	S04-94	2.000	1.000	.266	.440	**$1.73**



ULTRALIGHT SADDLES

SUPER-TOUGH SADDLES - TYPE I

P/N	Max Air #	Fits	OD	Hole		HT	Price
S4436	---	.875	0.875	.260		.125	**$1.83**
S4352	---	1.00	1.00	.260		.125	**$1.64**
S4350	---	1.00	1.00	.340		.125	**$1.59**
S4353	---	1.00	1.00	.260		.250	**$1.83**
S4326	---	1.125	1.00	.260		.125	**$1.75**

SUPER-TOUGH SADDLES -TYPE II

P/N	Max Air #	Fits	OD	Hole	HT	Price
S4451	S-24	1.500	1.375	.266	.188	**$1.16**
S4453	S-84	1.625	1.375	.266	.188	**$1.83**
S4456	S-44	1.750	1.375	.266	.188	**$1.83**
S4459	S-74	1.875	1.375	.266	.188	**$1.83**
S4460	S-74	1.875	1.375	.320	.188	**$1.90**
S4462	S-94	2.000	1.375	.266	.188	**$1.83**
S4482	S-94	1.750	1.000	.320	.188	**$0.73**

ALUMINUM SADDLES

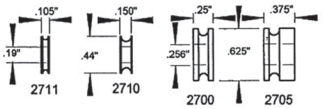
P/N-Type	Our P/N	Fits	Base OD	Hole	Height	Price
4300/I	04-00923	1.00	1.00	.266	.125	**$4.20**
4327/I	04-00924	1.13	1.00	.266	.125	**$4.20**
4328/I	04-00925	1.25	1.00	.266	.125	**$4.20**
4310/II	04-00926	1.50	1.00	.266	.250	**$5.25**
4315/I	04-00927	1.63	1.00	.266	.125	**$4.20**
4325/I	04-00929	1.88	1.00	.266	.125	**$4.20**
4329/I	04-00930	2.00	1.00	.266	.125	**$4.20**



TUBE CONNECTORS - NYLON

Fits 1 x .049 Tube .....P/N 05-02096 ...**$1.30**
Fits 1 x .049 (Maxair TC-1) ....P/N 05-02097 ...**$1.64**

CABLE FITTINGS



1/16" Cable, Steel, AN111-3
P/N CF2710.....**$2.50**
3/32" Cable, Aluminum
P/N CF2700.....**$2.45**
3/32" Cable, Aluminum
P/N CF2705.....**$2.25**
1/16" Cable, Stainless, AN111C-3 ... P/N CF2710S **$1.76**

REAR SPAR CONTOUR FITTING



Maxair#WT262, Contour
P/N 05-01936..... **$1.59**



POLY TIP RIB END FITTING

Maxair#PT-1
Poly Tip ..... P/N 05-01932..... **$0.63**



THREADED INSERTS

Inserts into tube connector (1" x .049 wall). 7/16" dia. Cross hole 3/16" Cad2 Type 2 Yellow Chromate. P/N 05-02071....**$2.95**

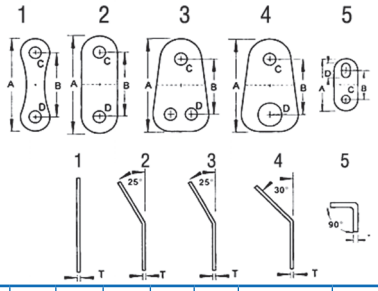


NYLON WASHERS

Model	P/N	O.D.	I.D.	Tkns	Each
NW2061	05-01971	1.000	.256	.125	**$1.12**
NW2059	05-01970	.875	.256	.031	**$0.52**
NW2055	05-01969	.256	.500	.060	**$0.52**
NW2045	05-01968	.875	.256	.062	**$0.32**
NW1540	05-01967	.440	.190	.062	**$0.18**
NWPW-3	05-01972	.625	.190	.062	**$0.24**
NWPW-4	05-01973	.625	.250	.062	**$0.39**

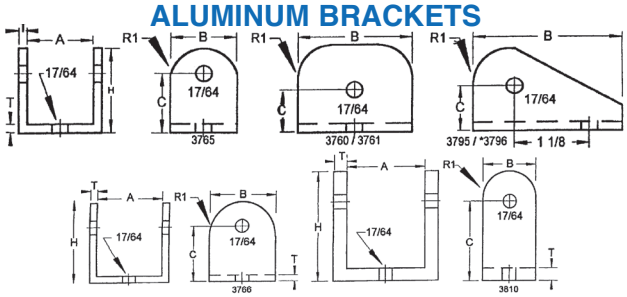
TANGS

Made of 304 stainless steel. All measurements are in inches.



No.	Maxair	Description	T	A	B	C	D	Part No.	Price
1	T12-HT4	Figure 8	14G	2.0	1.38	.26	.26	05-02076	**$1.13**
2	--	2-Hole Flat	16G	2.0	1.25	.26	.26	05-02072	**$1.31**
	T0-FT	2-Hole Flat	13G	2.0	1.25	.26	.26	05-02073	**$1.32**
	T2-FLAT	2-Hole Bent	13G	2.0	1.24	.26	.26	05-02074	**$1.56**
	--	2-Hole Bent	12G	2.0	1.24	.26	.26	05-02075	**$1.56**
3	T11-DFT	3-Hole Flat	14G	1.91	1.09	.26	.26	05-02077	**$2.60**
	T8-DFT	3-Hole Flat	12G	1.91	1.09	.32	.26	05-02078	**$3.75**
	T9-DAT	3-Hole Bent	14G	1.86	1.04	.26	.26	05-02079	**$2.60**
	T6-DAT	3-Hole Bent	12G	1.86	1.04	.32	.26	05-02080	**$2.84**
4	--	Anchor Tang	14G	1.91	1.19	.26	.50	05-02081	**$3.25**
5	--	SS EYE Bent	13G	1.13	.563	.188	--	05-04371	**$2.50**

ALUMINUM BRACKETS



Model	Part No.	A	B	C	H	T	R1	ALLOY	Each
B3772	05-01930	.500	.750	.500	.750	.125	---	6061-T6	**$4.20**
B3765	05-01928	1.000	1.000	.875	1.250	.125	.500	6063-T5	**$5.25**
B3760	05-01926	1.000	1.750	.625	1.250	.125	.500	6063-T5	**$5.90**
B3761	05-01927	1.000	1.750	.906	1.250	.125	.750	6063-T5	**$7.50**
B3795	---	1.000	2.250	.670	1.250	.125	.500	6063-T5	**--**
B3766	05-01929	1.250	1.250	1.062	1.500	.125	.750	6063-T5	**$6.30**
B3796	---	1.250	2.375	.875	1.500	.125	.500	6063-T5	**--**
B3810	05-01931	1.500	1.000	1.500	2.000	.250	.500	6061-T6	**$10.15**



STAINLESS STEEL BRACKETS

Fits	Model No.	Part No.	Price
1.000" Tub	B3740	05-01922	**$4.45**
1.125" Tube	B3742	05-01923	**$6.75**
Fits 1.250" Tube	B3744	05-01924	**$8.45**
Fits 1.375" Tube	B3746	05-01925	**$8.45**



PLASTIC ID TUBE CAPS

Model	Part No.	Fits Tube Size	Maxair	Each
TC4116	05-02093	1-1/2 x .083	---	**$1.66**
TC4115	05-02092	1-1/2 x .049	EC-6	**$0.96**
TC4100	05-02088	1-1/8 x .058	EC-4	**$0.96**
TC4080	04-00158	3/4" universal	14-209A	**$1.25**
TC4095	05-02084	1 x .083	EC-3	**$0.58**
TC4096	05-02085	1 x .058	EC-1	**$0.60**
TC4098	05-02087	1 x .049	EC-1	**$0.60**
TC4092	05-02083	7/8 x .049	EC-78	**$0.55**
TC4090	05-02082	5/8 x .058	---	**$0.44**
TC4097	05-02086	1 x .065	EC-2	**$0.60**
TC4106	05-02089	1-5/8 x .049	EC-7	**$1.10**
TC4110	05-02090	1-3/4 x .049	EC-8	**$1.90**
TC4112	05-02091	2 x .049	EC-10	**$2.50**



CONTROL CABLE FAIRINGS

Injection molded ABS plastic fairings used to cover hole in airframe where control cables emerge such as the rudder cables at the rear of the fuselage. May be installed on any airframe surface but is most normally used on fabric covered aircraft where they are bonded on with fabric cement and covered with a fabric patch. P/N 05-05750 ..... **$4.35 pair**

AP

MS21919 DG & WDG CLAMPS



Loop-type cushioned aluminum alloy clamp. Cushion (non-fuel resistant) is bonded to inner surface and edges of clamp. WDG clamps are cushion wedge type. Cushion assures tight fit and eliminates vibration, thus preventing line abrasion.

Tube Dia.	Dash No.	Price Each	Dash No.	Price Each	Tube Dia.	Dash No.	Price Each	Dash No.	Price Each
1/8	DG2	**$0.53**	WDG2	**$0.46**	1-5/16	DG21	**$1.17**	WDG21	**$1.37**
3/16	DG3	**$0.32**	WDG3	**$0.35**	1-3/8	DG22	**$1.39**	WDG22	**$1.17**
1/4	DG4	**$0.23**	WDG4	**$0.36**	1-7/16	DG23	**$1.77**	WDG23	**$1.39**
5/16	DG5	**$0.41**	WDG5	**$0.37**	1-1/2	DG24	**$1.06**	WDG24	**$1.20**
3/8	DG6	**$0.26**	WDG6	**$0.36**	1-9/16	DG25	**$2.76**	WDG25	**$1.40**
7/16	DG7	**$0.55**	WDG7	**$0.43**	1-5/8	DG26	**$1.46**	WDG26	**$1.18**
1/2	DG8	**$0.30**	WDG8	**$0.38**	1-3/4	DG28	**$1.51**	WDG28	**$1.24**
9/16	DG9	**$0.33**	WDG9	**$0.49**	1-7/8	DG30	**$1.63**		
5/8	DG10	**$0.36**	WDG10	**$0.44**	1-15/16	DG31	**$2.40**		
11/16	DG11	**$0.68**	WDG11	**$0.70**	2	DG32	**$1.21**		
3/4	DG12	**$0.40**	WDG12	**$0.62**	2-1/16	DG33	**$1.63**		
13/16	DG13	**$0.89**	WDG13	**$0.71**	2-1/8	DG34	**$1.59**		
7/8	DG14	**$0.64**	WDG14	**$0.66**	2-1/4	DG36	**$1.65**		
15/16	DG15	**$0.93**	WDG15	**$0.78**	2-3/8	DG38	**$2.28**		
1	DG16	**$0.49**	WDG16	**$0.66**	2-1/2	DG40	**$1.47**		
1-1/16	DG17	**$1.15**	WDG17	**$1.29**	2-5/8	DG42	**$1.77**		
1-1/8	DG18	**$0.99**	WDG18	**$0.90**	2-3/4	DG44	**$1.89**		
1-3/16	DG19	**$1.32**	WDG19	**$1.04**	2-7/8	DG46	**$3.40**		
1-1/4	DG20	**$1.11**	WDG20	**$0.86**	3	DG48	**$1.76**		
					3-1/8	DG50	**$2.95**		

Less 15% in lots of 50. May be assorted.

QS 200 HOSE CLAMPS

Aero-Seal



Aero-Seal stainless steel clamps are for industrial & aircraft applications. This tangential worm-screw type clamp is for use on fuel, oil, air & coolant lines. The worm drive provides uniform clamping pressure without distorting hose. Attach by pushing housing snugly around the hose to desired position on the band—the threads of the worm screw will drop into slots. Tighten slotted head with screwdriver.

QS200 Dash No.	Dia. Range (In.) Min.	Dia. Range (In.) Max.	Price Each	QS200 Dash No.	Dia. Range (In) Min.	Dia. Range (In) Max.	Price Each
-06H	7/16	25/32	**$1.39**	-44H	2-5/16	3-1/4	**$1.93**
-08H	1/2	29/32	**$1.38**	-48H	2-9/16	3-1/2	**$1.98**
-10H	9/16	1-1/16	**$1.45**	-52H	2-13/16	3-3/4	**$2.15**
-12H	11/16	1-1/4	**$1.43**	-56H	3-1/16	4	**$2.05**
-16H	13/16	1-1/2	**$1.40**	-60H	3-5/16	4-1/4	**$2.10**
-20H	13/16	1-3/4	**$1.42**	-64H	3-9/16	4-1/2	**$2.18**
-24H	1-1/16	2	**$1.47**	-72H	4-1/8	5	**$2.30**
-28H	1-5/16	2-1/4	**$1.48**	-80H	4-5/8	5-1/2	**$2.75**
-32H	1-9/16	2-1/2	**$1.49**	-88H	5-1/8	6	**$2.77**
-36H	1-13/16	2-3/4	**$1.56**	-96H	5-5/8	6-1/2	**$2.65**
-40H	2-1/16	3	**$1.88**	---	---	---	**---**

Less 15% in lots of 50. May be assorted.



SNAPPER CLAMPS

A quick ratchet closure provides specific take-up, eliminating excessive tightening which may mutilate the hose.

3/8" for 1/4" fuel line
P/N 05-00940..... **$0.22**
1", for radiator hose
P/N 05-00941..... **$0.37**

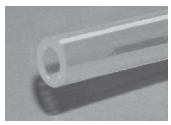
BING ALCOHOL RESISTANT FUEL LINE



This fuel line is blue in color and does not rot or deteriorate from the inside, clogging the carburetor or fuel system. It withstands 50 PSI and tensile strength is 8000 PSI. It is resistant to temperatures of -65° to 220°F without deterioration, features exceptional resistance to gasoline, oil, oxygen, and ozone, and has high elastic memory allowing use of Delrin or nylon barbed fittings in low pressure applications without the need for external clamps.

Description	ID	OD	Part No.	Price Per Ft.
Bing Alcohol Resistant Fuel Line	1/4	3/8	05-00500	**$1.48**
Bing Alcohol Resistant Fuel Line	1/8	1/4	05-00560	**$1.15**

SUPER HEAVY PULSE LINE



Super heavy wall clear polyurethane pulse line has an extra thick 3/32" wall that will not dampen crankcase pulse even on longer runs. Clear one piece urethane construction is not affected by fuel. Will not harden, crack, or become brittle with age. Can also be used as clear fuel line. Sold by the foot. Outside Diameter: 7/16". Inside Diameter: 1/4". Wall Thickness: 3/32" P/N 15-06094 ... **$0.99/ft.**

CLEAR BLUE FUEL LINE



Polyether-based Polyurethane Tubing offers excellent resistance to chemicals, kinking, abrasion, hydrolysis, oxidation, and ozone exposure. Our Polyether-based Polyurethane tubing excels in maintaining exceptional flexibility, high-impact strength, and above average performance in cold temperature.

O.D.	Description	Part Number	Price Per Ft.
1/4"	Clear Blue Polyurethane Fuel Line	15-04632	**$0.87**
3/16"	Clear Blue Polyurethane Fuel Line	15-04874	**$0.94**
1/4"	Clear Blue Polyurethane Fuel Line	15-04818	**$0.81**

PARKER SUPER-FLEX FL FUEL LINE HOSE



Parker's fuel line hose includes a new thermoplastic barrier that helps protect our atmosphere from harmful hydrocarbons that escape through the carcass of ordinary fuel hose. This new hose surpasses all of CARB's stringent permeation requirements and is similar to SAE30R7 specifications. The Super-Flex FL hose also features an abrasion and weather resistant cover to help protect from external application abuse. ***Approved for biodiesel fuels that meet ASTM D 6751 requirements per UL guidelines for Biodiesel compatibility.*** **4:1 Design factor**

Tube:	NBR with a thermoplastic barrier
Cover:	Black Hypalon
Reinforcement:	Braided Polyester
Temperature Range:	-30°F to +257°F (-34°C to +125°C)

Part No.	ID (in.)	Reinf. Braids	OD(in.)	OD(mm)	Approx. wt. per 100 ft.	Min. Bend Rad.	Max Rec. WP	Price Per Ft.
05-03597	1/4	1	0.500	12.7	9.7	-	100	**$4.75**
05-03598	3/8	1	0.625	15.9	1.30	-	100	**$4.95**
05-07223	5/16	1	0.0562	14.3	11.3	-	100	**$4.85**

MIL-DTL 6000D OIL AND COOLANT HOSE



Inside and out, MIL-DTL 6000D is designed to handle the effects of oil, alcohol, coolant, and water. The tube is oil resistant with a black cover reinforced with high strength mildew resistant yarns. It withstands extreme temperature conditions from -40°F to +250°F. Meets or exceeds U.S. military specs. Lightweight, flexible and easy-to-handle, making it the perfect hose for hard-to-get-to spots in tight engine compartments. Not recommended for fuel lines.

Part No.	Hose Dimensions I.D. (In.)	Hose Dimensions O.D. (In.)	Burst Pressure (PSI)	Wt./ Ft. (Lb.)	Price Per Ft.
6000-4	1/4	5/8	1,000	.14	**$4.95**
6000-5	5/16	11/16	1,000	.16	**$5.35**
6000-6	3/8	3/4	1,000	.18	**$5.50**
6000-8	1/2	7/8	1,000	.22	**$5.75**
6000-10	5/8	1	1,000	.26	**$6.75**
6000-12	3/4	1-1/8	1,000	.27	**$7.75**
6000-14	7/8	1-1/4	1,000	.32	**$8.65**
6000-16	1	1-3/8	1,000	.38	**$8.85**

MIL-DTL 6000D HOSE AVAILABLE IN 10 FT MAXIMUM LENGTHS
MIL-H-6000 IS SUPERCEDED BY MIL-DTL-6000C
*****NOT RECOMMENDED FOR FUEL LINES*****

CURTIS DRAIN VALVES

Curtis Superior Valve Co., Inc. Fuel and Oil Drain Valves have been the standard in the industry for over 60 years. Curtis valves are used in OEM applications and in the military aircraft. Most valves are made of high quality brass for resistance to corrosion and rusting ,giving them long service life and extended seal life. Most Curtis Valves have a spiral to open and twist to lock for easy fuel sampling and oil draining. Quick opening brass drain valve for aircraft oil or fuel systems. A slight twist opens valve. No safety wire needed in closed position. FAA approved. TSO-C76 Approved.



05-04045 CCA-1250 ***05-04046 CCA-1300*** ***05-04047 CCA-1350*** ***05-03060 CCA-1400*** ***05-01869 CCA-1550***



05-01870 CCA-1600 ***05-01871 CCA-1650*** ***05-01872 CCA-1700*** ***05-01935 CCA-3400***

****=TSO-C76, B= Brass, AA= Aluminum Alodine, A= Aluminum, BC= Brass/Cadmium Plated, SS= Stainless Steel***

Model Number	Thread Size	Installed Length	Material	Part No.	Price
CCA-1250	1/8" NPT	1.358"	B	05-04045	**$11.75**
CCA-1300	1/4" NPT	1.690"	B	05-04046	**$11.75**
CCA-1350	38" NPT	1.920"	B	05-04047	**$16.50**
CCA-1400 Valve*	1/2" NPT	1.685"	B	05-03060	**$24.50**
CCA-1550 Valve*	1/8" NPT	1.052"	B	05-01869	**$11.50**
CCA-1600 Valve*	1/4" NPT	1.340"	B	05-01870	**$11.75**
CCA-1650 Valve*	3/8" NPT	1.510"	B	05-01871	**$15.50**
CCA-1700 Valve*	1/2" NPT	1.685"	B	05-01872	**$24.50**
CCA-3400 Valve*	1/2" I.D. Hose	1.337"	B	05-01935	**$12.90**

SAF-AIR DRAIN VALVES

SAF-AIR push type fuel drain valves are close tolerance valves of simple design. These valves provide the most trouble free operation of any other line of valves in the industry. SAF-AIR valves are manufactured with an o-ring placed on the stem to seal against a flat seat on the body. This design eliminates an area where dirt can gather, thus putting an end to the main cause of fuel drain valve drip. FAA & PMA APPROVED.



CAV-110 ***CAV-110H-4*** ***CAV-160*** ***CAV-160H-4***

MODEL CAV-110 1/8" NPT - For Cessna 310 tip tanks; Mooney Mark 20 and 20A; all Ercoupe models; Bellanca, Taylorcraft model B; Stinson 108, 108-1, 108-2, 108-3; Voyager model 10 and 10A; Navion; Waco VK series and UPF; and Sea Bee. Fits all standard gascolators.

MODEL CAV-160 1/4" NPT - For Piper models J-3, J-4, PA-11, -12, -14, -25, -16, -17, -18, -20, -22, -23, and -15 Tri-Pacer; Apache; Champion; Aeronca; Cessna T-50 and earlier 120 and 140 models; and Beechcraft AT-11 and C-18S.

CAV-100H-4, CAV-160H-4
- All models come with 1/4" hose end.
Note: This application information is for reference only. Please verify thread size with your aircraft parts manual.

Part No.	Thread	Price
CAV-110	1/8" NPT	**$12.90**
CAV-110H4	1/8" NPT	**$17.85**
CAV-160	1/4" NPT	**$12.85**
CAV-160H-4	1/4" NPT	**$17.65**

Replacement Seals	Price Each
MS29513-006 Tip (all models)	**$0.24**
MS29513-011 Seat (CAV-180)	**$0.26**
MS29513-012 Seat (CAV-170)	**$0.26**



ACS GASCOLATOR

All-metal gascolator with S.S. screen, 1-7/8" dia. cadmium plated steel bowl w/quick drain. Top is CNC machined from 6061-T6 aluminum. Top casting has 1/4" pipe ports for 3/8" fuel line and one 1/8" pipe port for primer fitting. Wt: 8 oz. May be used with aviation and/ or auto fuel. Made in the U.S.A.
P/N 10580.....**$69.50**

Replacement Gaskets - For auto fuel 3/32" thick x 2-1/8" O.D. 10536-1 P/N 06-00441 .....**$5.85**

Replacement Screens -
120 Microns Stainless Steel..... P/N 10543-1 .....**$2.45**
74 Microns Stainless Steel..... P/N 05-03436 .....**$2.70**

ACS GASCOLATOR INSTALLATION BRACKET



Versatile bracket of .016 stainless steel accommodates gascolators with either metal or glass bowl. When mounted as illustrated, inlet and outlet connections are on sides. When bracket is inverted, one port of gascolator faces firewall for direct routing of fuel line through firewall. Fits gascolators sold after May 1, 1989. Made in the U.S.A.
P/N 10371.....**$17.90**

CURTIS FUEL SAMPLER CUP



This fuel sampler cup is designed for use with many popular fuel drain valves including the F391 drain valves used on many of today's productions aircraft. Wide bowl allows fuel sampling without fuel dripping onto the hands.
P/N 05-17300 ..... **$3.90**

FUEL FILTER



In-line, high-capacity, translucent filter with screen. Has standard 1/4" barb inlet and outlet tubes.
P/N 05-01030 .....**$3.85**

FUEL FILTER



In-tank type. Brass construction with fine-mesh screen. Has standard 1/4" barb inlet and outlet tubes. P/N 05-01031.....**$3.90**

3/8 INCH PLASTIC FILTER



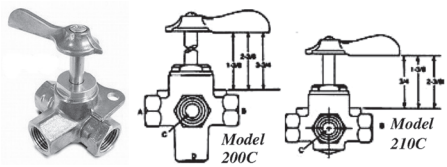
Plastic in-line fuel with 3/8" inlet & outlet - metal version is 33033 with hoses and camps. Style: Fuel Filter. Height: 3.543. Outer Diameter: 1.826. Nominal Micron Rating: 30
P/N 05-04701.....**$6.75**

SCREEN DISC FUEL FILTER



Compact 1" heavy duty disc filter uses fine mesh stainless steel screen. Excellent filtering qualities with an absolute minimum of flow restriction. Clear see-thru plastic body for easy inspection. Includes double barb ends for positive sealing to any 5/16" ID fuel line.
P/N 7134 ..... **$7.95**

HOMEBUILDERS SHUT-OFF VALVES



A full-flow plug valve with solid bottom and integral mounting bracket. Brass body and plug. Floating stem with O-ring prevents leakage. Packed with synthetic grease which resists gasoline and solvents. Indicating click on 3-port and 4-port valve (CN models) tells when handle is in full open or closed position. Tested to 30 PSI. Not FAA approved.

Part No.	Model No.	Imperial Equiv.	Valve Type	Pipe Thread	Price
6749	210-CL	108HD-04	3-Port*	1/4" Female x 1/4" Female	**$26.65**
05-01032	210-CN	108HD-06	3-Port*	3/8" Female x 3/8" Female	**$29.96**
05-01033	200-CL	114-HD-04	4-Port**	1/4" Female x 1/4" Female	**$29.90**
05-01034	200-CN	114HD-06	4-Port**	3/8" Female x 3/8" Female	**$35.35**

****For 2 tanks. Flow is from either side to branch.***
*****For 3 tanks. Flow is from any side to bottom outlet.***
Note: Order valve with 1/4" pipe threads for 3/8" dia. fuel line. Order valve with 3/8" pipe threads for 1/2" dia. fuel line. These pipe thread sizes are the ones normally associated with the indicated tube sizes.

MINIATURE FUEL VALVES



The lightest (4 oz.) smallest (1.5" long), easiest to operate ball type (not plug) on-off fuel valve available. Light operating force makes it ideal for remote operation. Not FAA approved. Forged brass with 1/4", 3/8", or 1/2" female pipe ends.
1/4" NPT valve ..... P/N 05-23325..... **$17.60**
3/8" NPT valve ..... P/N 05-23330..... **$19.65**
1/2" NPT valve ..... P/N 05-01026..... **$25.50**

WEATHERHEAD FUEL SHUT-OFF VALVE



These 3-way Weatherhead valves, with 1/4' female pipe ports feature a Delrin-spool design for smooth operation. Handle mounted on 1-1/4" long shaft. Not FAA approved.
Model No. 6749 3-Port Valve - Flow is from either side to middle port. P/N 6749 ..... **$26.65**
Model No. 6747 4-Port Valve - Flow is from any horizontal port to bottom port. P/N 6747 ..... **$24.90**

FUEL FLOW VALVE W/FILTER



Designed for tank installation, with built-in filter. 90° rotation for ON-OFF. Has standard 1/4" barb outlet tube.
P/N 05-01040 ..... **$14.80**

FUEL FLOW VALVE WITHOUT FILTER



Designed for tank installation. Similar to above but without built-in filter. 90° rotation for ON-OFF. Has standard 1/4" barb outlet tube. P/N 05-01041 ..... **$6.50**

FUEL FLOW VALVE - 3 POSITIONS



Twin-tank fuel selector valve. 3 positions: LEFT-OFF-RIGHT. LEFT and RIGHT positions are 90° either side of OFF. Panel mount.
P/N 05-01042 ..... **$7.50**

FUEL FLOW VALVE - 2 POSITIONS



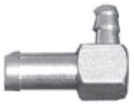
Panel mounted fuel on-off.
P/N 05-01043 ..... **$8.75**

BANJO FITTING



This can be rotated through 360° then tightened and safety locked. Excellent for applications where space was limited. It can really be described as an adjustable 90° elbow fitting. P/N 05-29565 ..... **$58.50**

FUEL FLOW ELBOW



Bushed 90° tank fitting with standard 1/4" barb outlet. Requires Rubber Bushing FTB01.
P/N 05-01045 ..... **$1.71**

FUEL LINE



Polyurethane tubing, translucent blue in color. 1/4" ID. A superior, premium grade of urethane, the optimum material for ultralight fuel line.
(Min. order, 4 ft.) P/N 05-01049 ..... **$1.25/ft.**

PRIMER BULB



05-01046

Install between fuel tank and engine. A few squeezes prime your engine for easy starting.

Primer Bulb 1/4" Tube Fit - Sm. (5" x 1-1/4") P/N 05-01046 ..... **$5.75**
Primer Bulb 1/4" Tube Fit - Lg. (7" x 2") ..... P/N 05-03690 ..... **$18.75**

QUICK-DISCONNECT FUEL LINE FITTINGS



05-01035



05-01036



05-01037



05-01038

Complete sets are furnished with both male and female units. Available in both panel mount (left) and in-line (center) styles, with or without internal automatic fuel shut-off. (1/4" tubing). The O-rings may not be compatible with some alcohol based auto fuels.

In-line with shut-off
P/N 05-01035 ..... **$13.90**

In-line without shut-off
P/N 05-01036 ..... **$5.50**

Panel mount with shut-off
P/N 05-01037 ..... **$17.75**

Panel mount without shut-off
P/N 05-01038 ..... **$15.75**

PRIMER KIT



05-01047

Everything you need to add a plunger-type primer system to your aircraft. The kit includes the plunger, a reducer "T" fitting, 1/8" barb "T" fitting, and 10 feet of 1/8" pink urethane fuel line.
P/N 05-01047 ..... **$19.85**

PRIMER LINE



Polyurethane tubing, translucent pink in color. 1/8" ID. For primer systems.
P/N 05-01050 ..... **$0.66/ft.**

PULSE LINE



Connects engine pulse outlet to fuel pump pulse inlet. Outside Diameter: 3/8". Inside Diameter: 1/4". Thickness of the Wall: 3/32"
P/N 05-01063 ..... **$0.99/ft.**

FUEL LINE SPLITTERS/JOINERS



Perfect for feeding from 2 tanks, or for feeding two carburetors from 1 tank. All have standard barbed ends. Made of Delrin. "T" type, 1/4" ..... P/N 05-01051 ..... **$1.15**
"Y" type, 1/4" ..... P/N 05-01052 ..... **$1.10**
"T" type, 1/8" ..... P/N 05-01053 ..... **$1.95**

RUBBER BUSHING



Required for installation of Fuel Flow Elbow described above. P/N 05-01039 ..... **$0.32**

FUEL FILTER FUNNELS



P/N 05-00026



P/N 05-01054



P/N 05-01055



P/N 05-01371

Mr. Funnel® Fuel Filters are simply amazing. Dirty fuel in.... pure fuel out. It's that easy. The specially designed filter removes water and dirt from gas, even 2-stroke mixtures. Ethanol attracts water more than regular gasoline. Never before has a fuel filter been more important.
Dirt and water are practically unavoidable in stored fuel, causing microbial growth, corrosive acids, electrolysis and rust. These contaminants can plug filters, corrode components, decrease efficient combustion and cause engine shutdown or system failure.
When fuel is poured through the Fuel Filter Funnel, water and debris will not pass through the filter's fluoropolymer-coated stainless steel filter. Only filtered fuel flows through to your engine, improving its efficiency, durability, and proper operation. The sump area collects the deflected water and debris for proper disposal. The Fuel Filter Funnel will filter gasoline, diesel, heating oil, kerosene and 2-cycle mixed gas.
The Fuel Filter Funnel is a heavy-duty, anti-static, and fast flow funnel with built-in filter technology.
Lawn mowers, tractors weed trimmer/blowers, dirt bikes/ATVs, boats, even airplanes... will have longer useful lives if owners filter their fuel!

Part No.	Height	Diameter	Flow Rate	Price
05-00026	6.00"	3.5"	2.5 gpm	**$14.95**
05-01054	8.75"	5.5"	3.5 gpm	**$19.90**
05-01055	10.00"	8.5"	5.as0 gpm	**$28.75**
05-01371	10.00"	8.5"	12-15 gpm	**$52.95**

WHIRLWIND ROTAX 912/914 PROPELLERS

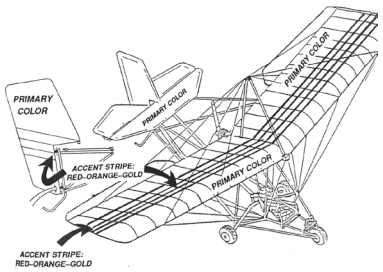


The WhirlWind GA propeller series are ground pitch adjustable aircraft propellers featuring advanced aerodynamic and composite design. The high gloss urethane surface shows off the quality craftsmanship and attention to detail. The blade design is optimized for maximum efficiency and minimum noise. The blade structure is manufactured from theromoset epoxy/graphite composite matrix. This advanced composite structure ensures high strength and blade accuracy in all flight environments. Only WhirlWind propellers come standard with electroformed Nickel leading edge shields for superior fit and abrasion protection. The hub is CNC machined from aerospace aluminum and is dimensionally certified; all hubs are surface treated with shot peen for increased strength and cycle life and then Anodized for corrosion protection.

Specifications: Engines: Rotax 912/914, Diameter: 2 blade - 68-70 in. 3 blade - 64-70 in., Weight: 2 blade - 8 lbs.3 blade - 11 lbs., HP/RPM: 115@5800

Description	Part No.	Price
2 Blade Prop	05-06851	**$1,550.00**
3 Blade prop	05-06850	**$1,528.00**
Accessories		
9" Spinner For Prop	05-06852	**$335.00**
9.75" Spinner For Prop	05-06853	**$335.00**
11.3" Spinner For Prop	05-06854	**$335.00**

TOP QUALITY REPLACEMENT SAILS FOR MOST POPULAR AIRCRAFT



Constructed of the highest quality imported 4.1 oz. Dacron fabric, these sails are guaranteed to meet or exceed the original manufacturers specifications for fit and fabric strength. All corners and stress points are double reinforced for extra long life. Where needed Velcro seams and closing fasteners are included to match the original design. All seams are double zigzag sewn so all joints exceed the strength of the surrounding fabric. Metal fasteners are nickel plated to guard against corrosion. All these features means your aircraft should look and fly like new.



BULK FABRIC BY THE YARD

Our fabric is also available in bulk by the yard (54" width) for repairs or prototype purposes. Fabric is only sold in one yard increments (one yard minimum). Colors as follows:

P/N 232 Hot Pink (54" width) ..... **$11.95** yd.
P/N 23305 ..... #310 Florescent Yellow (54" width)..... **$11.95** yd.
P/N 23007 ..... #332 Eagle Orange (54" width)..... **$11.95** yd.
P/N 23009 ..... #360 Key West Blue (54" width) ..... **$11.95** yd.
P/N 23011 ..... #370 Lime Green (54" width) ..... **$11.95** yd.
P/N 23015 ..... #1034 Santa Fe Red (54" width)..... **$11.95** yd.
P/N 23017 ..... #1068 Royal Blue (54" width)..... **$11.95** yd.
P/N 23019 ..... #1003 Glacier White (54" width)..... **$11.50** yd.
P/N 23021 ..... #1098 Jet Black (54" width)..... **$11.95** yd.
P/N 23025 ..... #1057 Harvest Gold (54" width) ..... **$13.25** yd.
P/N 23029 ..... #1051 Deep Purple (54" width) ..... **$11.95** yd.



FEED-THRU ANTENNA INSULATOR

Feed-Thru Insulator for lead-in wire from fixed antenna. Type 4125.
P/N 8613.....**$15.65**



PUSH-IN FUEL TANK VALVE

Standard replacement valve and grommet for plastic or Quicksilver type fuel tanks. Replaces Quicksilver #30280. Right angle valve shut-off with a 1/4 turn of the handle. Requires 33/64" hole in tank. Barb end accepts any 1/4" i.d. fuel line. Supplied with #7030 Grommet.
Weight 2 oz. P/N 7027 .....**$65.50**



PUSH-IN FUEL TANK VALVE

Same as #7027 valve above in a straight through configuration. Comes with #7030 grommet. Requires 33/64" hole in tank.
P/N 7028 .....**$7.50**



FUEL TANK VALVE W/ SCREEN

Same as #7027 except with in-tank screen. Filter screen is 150 mesh to filter larger particles before exiting tank. Vertical design prevents clogging even in extreme debris flows. Red handle stops flow with a 1/4 turn. Blind push-in design seals in tank with #7030 grommet (included). Requires 33/64" access hole in tank. Standard upgrade for many light aircraft. Weight 2.5 oz.
P/N 7241 .....**$15.25**



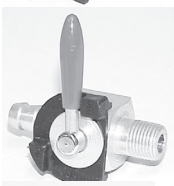
RUBBER TANK GROMMET

Snap-in fuel compatible rubber grommet for blind sealing of valves or fittings in fuel tanks. Requires 33/64" access hole in tank
P/N 7030 .....**$0.32**



TANK VALVE THREADED 1/8MPT 90 ELBOW

Tank Valve threads into bottom of tank. 1/8" male pipe threads. 90 degree elbow design accepts any 1/4" id fuel line. 1/4 turn shuts down fuel flow.
Weight 2 oz. P/N 8524 .....**$9.49**



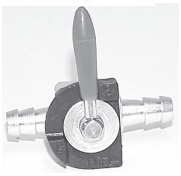
TANK VALVE THREADED 1/8MPT STRAIGHT

Tank Valve threads into bottom of tank. 1/8" male pipe threads. Straight thru design accepts any 1/4" id fuel line. 1/4 turn shuts down fuel flow.
Weight 2 oz. P/N 8522 .....**$9.49**



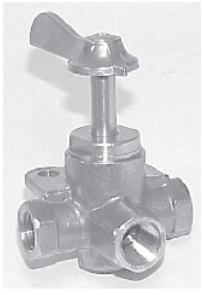
TANK VALVE THREADED 1/4MPT STRAIGHT

Tank Valve threads into bottom of tank. 1/4" male pipe threads. Straight through design accepts any 1/4" fuel line. 1/4 turn shuts down fuel flow.
Weight 2 oz. P/N 8523 .....**$9.49**



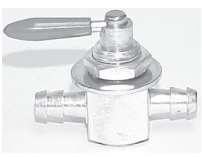
COMPACT IN-LINE SHUT OFF VALVE

Ideal for in-line fuel shut off. Handle indicates valve position. Hose barbs accept any 1/4" id fuel line. Must be used with clamps. Brass Construction. Weight 2 oz.
P/N 7215 .....**$7.50**



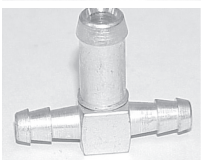
THREE WAY BRASS FUEL VALVE

A quarter turn of the handle quickly routes fuel from either of two fuel tanks to carb or can be turned again for a positive fuel shut off. Made of lightweight brass with directional handle as shown. Brass body incorporates built-in two bolt mounting bracket for easy installation. All ports are 1/4" female NPT threads. Ideal for positive flow switching from multiply fuel tanks.
P/N 7203 .....**$26.65**



FUEL SHUT OFF VALVE

In Line Fuel Valve for fuel shut off. Ideal for use on panel to cut off fuel flow in a single line. All barbs accept any 1/4" i.d. fuel line. Requires only 1/4 turn to off. Installs in panel thru 1/2" hole.
P/N 7031 .....**$11.00**



FUEL TANK ACCESS TEE

Ideal for two line access to bottom of fuel tank. Uses push in grommet(#7030) to seal blind installation. Hose barbs accept any 1/4" fuel line. Order Grommet separately.
P/N 7034 .....$4.49

¼ Turn Ball valves are the industry standard for fuel control. All valves are equipped with Buna-N o-rings and are completely fuel compatible. Available in blind tank push-in type, panel mount, or in-line hose barb.



SPARK PLUG CADDY

Handy case holds (2) 14mm spark plugs. Small enough to fit into your pocket.

P/N 13-03869 ..... **$2.95**



SPARK PLUG WRENCH

Loosen or tighten your spark plugs with this handy tool.

P/N 13-03921 ..... **$2.95**



PLASTIC STARTER HANDLE

Black flexible plastic heavy duty handle.Tested to –40°F

P/N 13-03865 ..... **$4.95**



SPARK PLUG JACK

Rivets or screws to any flat surface and holds two spare 14mm plugs. Tough polycarbonate plastic with spring-loaded plug anchors keeps plugs dry and protects gaps. P/N 13-03870 ..... **$5.50**



NYLON STARTER ROPE

The perfect replacement rope for worn-out manual starters. P/N 13-03922 ..... **$0.45 per ft.**



SPARK PLUG CAPS

Original NGK. Black. 5000 ohm resistance.
P/N 08-00737 is used on threaded type plugs.
P/N 08-04960 is used on solid top plugs.

P/N 08-00737 ..... **$2.60**
P/N 08-04960 ..... **$2.60**



SPARK PLUG WIRE

High-quality multi-strand copper core unshielded wire. 7mm diameter. For all Rotax® and most other engines. Replaces Rotax® Part No. 965-158.

P/N 11-04105 ..... **$1.17 per ft.**



FLEXDRIVE

PosiFlex coupler for Quicksilver®

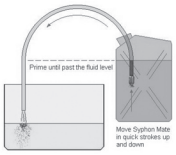
For 377/477 w/o high-thrust mod ..... P/N 05-01985 ..... **$249.95**
For all high-thrust mods ..... P/N 05-01986 ..... **$330.00**



RATIO-RITE CUP

Getting the right oil-to-gas ratio is no problem with this tough polypropylene cup. Just fill the cup with oil to the ratio level desired, and mix with gasoline. Ratios from 16:1 to 50:1. Graduated in ounces and CCs for filling chain cases, etc. 18 oz. capacity.

Cup ..... P/N 08-01091 ..... **$4.35**
Lid ..... P/N 08-03677 ..... **$1.70**



SYPHON MATE

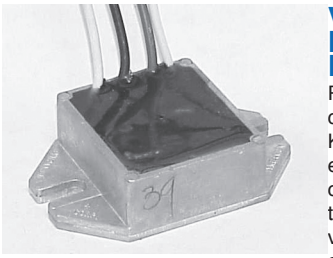
Here's a safe and easy method of fuel transfer. A simple jiggle of the Syphon Mate establishes the flow, and then air pressure maintains it. Never wears out, and it's guaranteed for three years. The outlet end is 1/2" standard pipe thread for easy attachment to a garden hose, if needed.

P/N 05-01018 ..... **$7.95**



AIR-TECH ROTAX GEAR BOX CLUTCH RK400

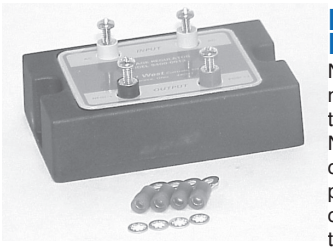
The primary purpose of the clutch is to disengage the prop from the engine allowing it to start and operate at idle without vibration. When the engine is idling (below 2350 RPM) the prop is not turning. Installation of the clutch replaces the gear box flywheel and the hardy disk. Added weight is approx. 3 Lbs. P/N 10-04811 ..... **$519.00**



VOLTAGE REGULATOR - RECTIFIER

Regulates and rectifies lighting coil output from most any Rotax, Kawasaki, or Cuyuna engine equipped with internal lighting coils. Charges 12 volt battery systems. Converts a/c lighting coil voltage to d/c current for charging an 16-20 amp battery (minimum). Easy four wire hook-up. Comes with complete instructions for any engine listed above. Solid state construction requires 1 amp minimum load. Measures: 3"x2"x7/8" weight: 4oz.

P/N 9103 ..... **$32.95**

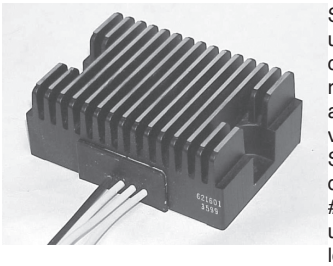


KW VOLTAGE REGULATOR

No battery? No problem! This all new voltage regulator provides up to 15 amps of pure 12 volts D/C. No voltage spikes and other "dirty" output properties. Can be used to power strobes, instruments, radios, and more. Can also be used to charge a battery system. Unlike other regulators, no minimum load is required. Designed especially for use with Rotax, Kawasaki, Cuyuna, and most other Ultralight engines. Super easy hook up includes labeled and Color coded screw terminals with crimp connectors. No dangle wires or splicing required. Compact size measures only: 3.5" x 2" x 1" Weights only 9 oz. Easy two hole mounting. Includes full schematic instructions.

P/N 9105 ..... **$57.75**

3 PHASE REGULATOR - RECTIFIER



Special 3 phase regulator/rectifier unit connects directly to lighting coil. Produces 12 volts d/c current. Ideal for charging batteries and other accessories requiring 12 volts d/c. Easy four wire hook-up. Special "fins" help dissipate heat during full load operations. Unlike #9103 single phase regulator this unit does not require a minimum load. Wire not used can be used as back-up circuit. Can be used to directly power gauges and other accessories requiring 12 volts d/c.

P/N 9251 ..... **$69.85**

COOLANOL - READY TO USE COOLANT



Mineral deposits from regular tap water can collect on the Rotary Valve Shaft causing the seals to leak. Avoid this costly repair with this ready to use coolant specially designed to meet factory specifications for Rotax liquid cooled engines. "Coolanol" is a pre-blended formulation of 50% premium antifreeze and 50% demineralized water. No need for mixing or diluting. Designed for use with aluminum block engines, Coolanol has a freezing point of -34F to a boiling point of +265F when used with a 15 psi radiator cap. Coolanol contains proven anti-foaming agents and anti-corrosion additives. Coolanol meets the tough new ASTM D-4340 aluminum engine hot surface test specifications which means reduced possibilities for water pump cavitation and overheating.

½ Gallon jug

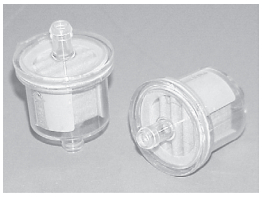
P/N 7535 ..... **$8.50**



MINIATURE FUEL FILTER

Compact fuel filter with Sintered Brass filter element that allows for maximum fuel flow. Includes double barb ends for positive sealing to any 1/4" ID fuel line. Clear see-thru plastic body for easy inspection. Measures only 2" long. Weight 1 oz. Made in USA. Our smallest and lightest fuel filter.

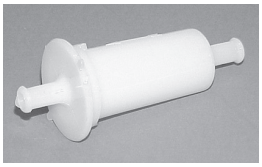
P/N 7131 ..... **$7.90**



PAPER SCREEN FUEL FILTER

Lightweight polymer treated paper filter element the filters out the smallest particles. Clear see-thru plastic body for easy inspection. Includes double barb ends for positive sealing to an 1/4" ID fuel line. Measures only 2" long x 1 1/2" diameter. Weight: 1 oz. Made in USA.

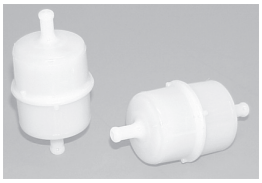
P/N 7135 ..... **$8.85**



HI-FLOW FUEL FILTER

Economical fuel filter for use with any 1/4" i.d. fuel line. Filters the smallest particles to protect fuel system. Constructed of white nylon.

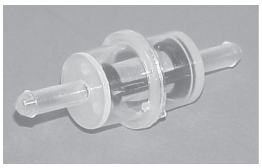
P/N 7035 ..... **$3.85**



LARGE FUEL FILTER - PAPER

Large diameter fuel filter fits any 1/4" fuel line. Corrugated paper element gives maximum protection and flow characteristics. Plastic housing allows for easy inspection. Our most popular filter.

P/N 7142 ..... **$3.85**
2-4 units..... **$4.75**
5 or more **$4.50**



COMPACT HI-FLOW FUEL FILTER

High flow heavy duty nylon fuel filter with fine mesh screen. Hose barb fits 1/4" ID fuel line. See thru design allows for easy inspection of non-replaceable filter element.

P/N 7125 ..... **$11.95**



PRO-FUEL FILTER – FULL SIZE

High performance glass view filter for any 1/4" ID fuel line. Chrome plated metal end clamps with wrench pads for easy disassembly and positive sealing. Precision sealed with O-rings on each end. 1.5" long replacement elements threads into place. Weight: 3 oz. Measures 4" long including barbs..

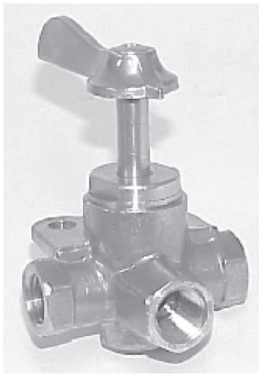
P/N 7351 ..... **$14.75**

same as above for 5/16" id Fuel Line Rotax 912

P/N 7355 ..... **$12.85**

Set of 3 Replacement Elements

P/N 7353 ..... **$10.50**



THREE WAY BRASS FUEL VALVE

A quarter turn of the handle quickly routes fuel from either of two fuel tanks to carb or can be turned again for a positive fuel shut off. Made of lightweight brass with directional handle as shown. Brass body incorporates built-in two bolt mounting bracket for easy installation. All ports are 1/4" female NPT threads. Ideal for positive flow switching from multiply fuel tanks.

P/N 7203 ..... **$26.65**



IN-TANK FUEL FILTER

Fine mesh metal screen fuel pick up. Will not seal on side of tank. Fits any 1/4" ID fuel line. Ideal for main or reserve fuel line pick up.

P/N 7129 ..... **$6.25**



FUEL-CHECK TESTER

Check for the alcohol in fuel in seconds with this handy fuel tester. Alcohol hardens and cracks seals, o rings, and other fuel system parts as well as readily attracts water into the fuel. Fuel-Check detects the presence of alcohol and the percentage in fuel.

P/N 8815 ..... **$5.75**

Notice: All filters must be inspected on a regular basis as part of a preventative maintenance plan. Gasoline additives and contaminants may cause corrosion or blockage. Inspect all filters and fuel pick ups on a regular basis.



FACET SOLID STATE ELECTRIC FUEL PUMPS

These pumps measure less than 3" in any direction and weigh only 18 oz. Fuel is supplied as soon as the ignition is turned on so the engine will start faster at colder temps. Built-in pressure relief prevents flooding and assures fast re-starts on hottest days. The all-steel plated case is water tight. Mounts with two bolts. For best results, mount the pump close to the fuel tank and below the liquid level.

The tank is self-priming to 18" fuel lift. Standard 12 V models require only 1 amp at max. delivery. Many models are available, but these are the ones recommended by Rutan Aircraft Factory, Stoddard Hamilton and many other aircraft designers. All of the pumps shown feature the all nylon valve and plunger as specified by Rutan Aircraft in the Canard Pusher newsletter.

P/N 05-00799 ..... **$33.85**
P/N 40105 ..... **$33.50**
P/N 40106 ..... **$33.65**
P/N 40163 ..... **$46.50**
P/N 40164 ..... **$42.85**
P/N 05-40171 ..... **$48.50**
P/N 05-06860 ..... **$35.75**
P/N 05-06861 ..... **$35.75**

CORROSION TREATMENT - PROPELLERS

ACF-50 ANTI-CORROSION COMPOUND



ACF-50 is a state-of-the-art compound for controlling corrosion on aircraft electrical and avionics systems and airframes. ACF-50 is designed for owners of strut equipped Piper aircraft to comply with new Piper bulletin 5280C requiring lift strut inspection. ACF-50 kills the corrosion process with just one application and will last for 24 months. Microswitches, cannon plugs, and relays will remain corrosion free. Plus, ACF-50 will easily free seized nuts, screws and bolts. ACF-50 is qualified under Mil-PRF-8130F, and manufactured under ISO 9000 Certified Processes. Try ACF-50, you will be truly amazed at the results.

13 oz. Spray Can(HAZMAT) ..... P/N 09-44350 ..... **$13.50**
32 oz. Bottle ..... P/N 09-00364 ..... **$29.85**
4 Liter can ..... P/N 09-44345 ..... **$99.75**
20 Liter Pail ..... P/N 09-00437 ..... **$429.00**

CORROSION X



Corrosion X is an excellent penetrant, lubricant, and corrosion filter which confirms to Mil-C-81309E and is perfect for extended corrosion protection of airframes. It is also highly effective in protection of all components in the electrical / avionics systems. On existing corrosion, it penetrates oxidation, displaces lectrolyte and stops electrolysis. On corrosion free surfaces provides an ultra-thin barrier to guard against moisture intrusion and corrosion attack. Treatment lasts 2 years or more, and Corrosion X is non-toxic. Corrosion X is a highly recommend treatment for extending the life of airframes.

16 oz. Aerosol ..... P/N 09-42220 ..... **$15.26**
16 oz. Trigger spray (can be shipped anywhere non-hazardous, unrestricted) ..... P/N 09-00296 ..... **$15.25**
1 gal./3.8 ltr. ..... P/N 09-44225 ..... **$84.15**

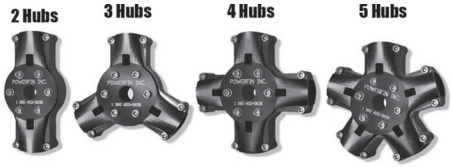
BOESHIELD™ T-9 CORROSION PROTECTANT



Developed this formula for long term protection of aircraft components. Penetrates to fasteners and fixtures, where it displaces moisture, and will even loosen rusted parts. Boeing recommends it for fuselage, wing, and tail structures, engines and cowlings, landing gear and gear wells, control linkages, and avionics. Dries to a clean waxy film. Lubricates and protects all metals for months. Safe on most paints, plastics & vinyls.

12 oz. Aerosol can ..... P/N 09-01623 ..... **$15.75**
4 oz Drip Can ..... P/N 09-00378 ..... **$7.85**
4 oz Spray Can ..... P/N 09-00379 ..... **$7.45**
Gallon Can ..... P/N 09-01622 ..... **$99.00**

POWERFIN COMPOSITE PROPELLER HUBS



To calculate the cost of a full propeller assembly, take the price for a single blade times the number of blades you need. Then add the cost of the hub you need.

For example: A three blade C-model propeller assembly will include three C-model blades and a standard three blade Apex hub. All hub assemblies* include mounting hardware, optional locknuts for Rotax engines, and a 1/4" dowel pin used for setting the pitch.

BLADES

Blade Model	Part No.	Single Blade Price
B-Model	05-06962	**$189.00**
C-Model	05-06963	**$179.00**
E-Model	05-06964	**$169.00**
F-Model	05-06965	**$229.95**

All propeller and hub assemblies include mounting hardware for the Rotax A, B, C, or E box or the Hirth gearbox.

HUB ASSEMBLIES

Hub Type	For Blade Models	Part No.	Price
Special Three Blade Apex	E	05-06973	**$289.95**
Standard Two Blade Apex	B, C, & F	05-06966	**$279.00**
Standard Three Blade Apex	B, C, & F	05-06967	**$299.95**
Standard Four Blade Apex	B, C, & F	05-06968	**$347.00**
Standard Five Blade Apex	B, C, & F	05-06969	**$350.00**
Rotax 912 Three Blade Apex	B, C, & F	05-06970	**$358.00**
Rotax 912 Four Blade Apex	B, C, & F	05-06971	**$350.00**
Rotax 912 Five Blade Apex	B, C, & F	05-06972	**$378.00**

Shipping a two or three blade propeller assembly is $20.00. These prices are for all U.S. customers excluding Alaska and Hawaii. Most international orders will ship U.P.S. International - Expedited Service. If you wish a quote on an international order, please supply an address with a postal code so we can quote shipping prices.

POWERFIN COMPOSITE PROPELLERS



Powerfin is the only composite propeller manufacturer in the U.S. to offer a true Clark-Y airfoil which optimizes surface airfoil for thrust. Powerfin also allows for infinite pitch range with any increment. The pitch alignment tool supplied with every Powerfin takes the guesswork out of pitching your prop. Simply set the stop screw, clamp the tool to the hub, and turn the blade to the stop. The process takes less than 10 minutes for a 3 bladed prop. Powerfin features include superior aerodynamics, noise reducing tips, superior composite construction, very strong low profile hub, durable finish, 2 and 3 blade configurations, fits Rotax 75MM bolt pattern, adapters for every bolt pattern, 32" to 72" diameter, leading edge protection, speed set hub and a two year factory warranty against defects. Weight is 6.5 lbs. for 2 bladed Powerfin and 9.0 lbs. for 3 bladed Powerfin. Complete brochure available on request.

MODEL B



General use propeller although specifically designed to run significantly smaller diameters than most other props. The B-Model runs very well on a 582/2.58 as a three blade 60" for example, and can out produce our competition even when running much smaller diameters. Maximum possible diameter with this model is 65".

P/N .....05-06962 ..... **$189.00**

MODEL C



Designed specifically for powered parachutes as a three blade 64" on a Rotax 582/2.58, this design works well on Rotax 447's through Rotax 618 as well as the Hirth engines that fall between 40 and 80 horsepower. This is the propeller being sold as standard equipment on 6 of the top 7 ppc's. Maximum possible diameter with this model is 69".

P/N .....05-06963 ..... **$179.00**

MODEL E



This is our smallest propeller - designed for engines between 15 and 30 horsepower. These narrow blades allow for a maximum possible diameter of 53". Backpack ppc's are the target of this design although the blade has been proven very efficient on many older, fixed wing airplanes with diameter restrictions. This is the ONLY pitch adjustable prop available to backpack units.

P/N ..... 05-06964 ..... **$169.00**

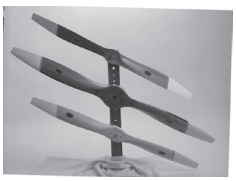
MODEL F



This is our largest propeller - designed for larger two-stroke engines that use the higher gear reduction ratios and horsepower up to 115. This prop runs beautifully on a Rotax 503/3.47 as a three blade 66"-70". A two place Kolb can't squeeze any more efficiency out of a 503/3.47 than with our F-model 68" prop. This prop is also the finest prop available for the Rotax 912, 912S, and 914 engines. Maximum possible diameter with this model is 75".

P/N ..... 05-06965 ..... **$229.95**

ULTRALIGHT PROPELLERS BY PROPS INC.



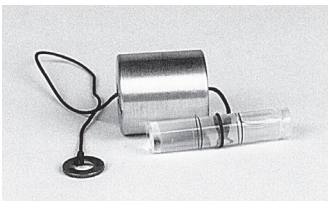
These high quality ultralight propellers are available in both birch and mahogany. The birch props are as split-resistant as mahogany but mahogany props with glass coating are 1/3 lighter than the birch. Mahogany props come with a glass coating - it is optional on birch props. Add $35.00 for leading edge protection on birch or mahogany props. Propeller reconditioning available on all ultralight props. Specify prop dia., pitch, bolt pattern, aircraft and engine type, birch or mahogany, and pusher or tractor configuration.

Allow 2-3 weeks for delivery. Prop drilling included in price. Additional $18.00 for packing and shipping.

Diameter (Specify)	Pitch (Specify)	Price for Plain Prop
36 thru 40	Any (to 36")	**Call for Quote**
41 thru 48	Any (to 46")	**Call for Quote**
49 thru 54	Any (to 46")	**Call for Quote**
55 thru 60	Any (to 46")	**Call for Quote**
61 thru 66	Any (to 46")	**Call for Quote**
67 thru 72	Any (to 46")	**Call for Quote**

Request quotation on prop pitch over 46"

BUZZ MASTER PROP BALANCER



This extremely simple and sensitive tool uses the plum-bob and bevel principle to balance props both vertically and horizontally. It can be carried in a small tool box for easy use in the field and balances props accurately for smooth operation. The precision machined hub works with any prop designed with standard 1" center hole. Illustrated instructions included.

P/N 13-17400 .....**$29.50**

WARP DRIVE ADVANCED COMPOSITE PROPELLERS



Warp Drive's Advanced Composite Carbon Fiber propeller has a structural strength near that of metal propellers. Because of the stiffness achieved by using carbon fibers, the prop will do very little coning (bending forward) under power. Proper fiber placement allows the prop to flex torsionally for maximum cruise efficiency. The strongly fixed position of the blades along with optimum torsional performance translates into more thrust than conventional propellers.

The interior structure of this new propeller is all carbon fiber - no fiberglass, no foam, no filler - an all carbon fiber matrix combined with top quality hybrid epoxies. Carbon fiber is one of the strongest building materials available. When properly engineered, carbon fiber can achieve the strength and stiffness of a metal part, as demonstrated by its wide range of industrial and aerospace uses.

WARP DRIVE PROPELLER BLADE TYPES

All propellers and blade types are available with Stainless Steel Leading Edge protection as an option at additional cost.

1. STANDARD ADVANCED COMPOSITE CARBON FIBER BLADES
   The Standard Carbon Fiber Blades can be used on Rotax, Arrow, VW and similar engines.
2. HIGH HORSE POWER ADVANCED COMPOSITE CARBON FIBER BLADES
   The Carbon Fiber HP Blades will be required for use on Lycoming, Continental and some auto conversion engines.

WARP DRIVE HUBS

Warp Drive offers two types of hubs of our propellers. First is our Standard Hub. This is an assembly of anodized aluminum plates and composite clamping blocks. It accommodates standard and custom hub bolt patterns of up to 3 1/8".

The second type of hub is the HP Hub. This hub consists of two halves machined from solid aluminum. It is the same weight as the standard hub assembly and can accommodate Rotax, Arrow, VW, SAE I Continental, SAE II Lycoming and custom bolt patterns.

STANDARD CARBON FIBER PROPELLER

2-Blade Std Carbon Fiber Propeller ..... 05-31920 ..... **$437.95**
3-Blade Std Carbon Fiber Propeller ..... 05-31925 ..... **$637.00**
4-Blade Std Carbon Fiber Propeller ..... 05-31930 ..... **$965.00**
Replacement Std Carbon Fiber Blade ..... 05-31935 ..... **$189.00**

WITH HP HUB

05-31940 ..... **$719.00**
05-31945 ..... **$924.00**

HIGH HORSE POWER CARBON FIBER PROP WITH HP HUB

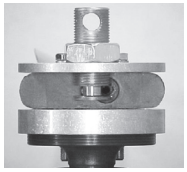
2-Blade Carbon Fiber H/P w/HP Hub ..... 05-31950 ..... **$883.00**
3-Blade Carbon Fiber HP w/HP Hub ..... 05-31955 ..... **$1,031.00**
Replacement Carbon Fiber HP ..... 05-31960 ..... **$328.95**
Mounting Hardware (Rotax) ..... 05-31965 ..... **$16.55**
Protractor ..... 05-31970 ..... **$39.75**
Non-Standard Hub Pattern ..... 05-31975 ..... **$40.60**
Spinner (Rotax Pattern) ..... 05-31980 ..... **$113.95**
"HP" Hub (purchased separately) ..... 05-31985 ..... **$307.00**

ORDERING A PROPELLER

We request all applicable information below when you are ordering:

1. Name, Address, Phone Number(s)
2. Vehicle - type, make, model, cruise speed, tractor/pusher,
3. Engine - make, horse power,
4. Reduction Drive - type, ratio. If there is no reduction drive, (State Prop RPM)
5. Hub Requirements - A) Bolt circle dia, B) Number of bolts, C) Bolt dims, D) Center hole dims, E) Drive lug dimensions (if applicable),
6. Propeller Description-rotation, diameter, structural limitation of diameter manufacturer's suggested prop description, no. of blades, tractor or pusher.

QUICK ADJUST SYSTEM IVOPROPS

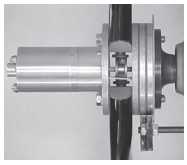


The Quick Adjust System Ivoprops allow you to adjust the pitch on the ground in a matter of seconds by turning the screw adjustor in the center of the prop. The supercams are welded on the end of the torsional rods. Each supercam fits into the groove in the screw adjustor. Turning the screw adjustor causes each cam to rotate and turn the torsional rod and thereby twist the blade therefore changing the pitch. Specify aircraft and engine make and model, and propeller diameter. * Ultralight Ivoprop (3.5" cord, 48" to 72" diameter) is for engines up to 100 hp. * Medium Ivoprop (4.5" cord, 52" to 74" diameter) is for engines around 100HP. * Magnum Ivoprop (5.5" cord, 58" to 76" diameter) is a high-horsepower version for engines up to 700 HP. * Magnum Paddle Ivoprop (5.5" constant cord, 58" to 84" diameter" is for high-horsepower air boats and bush planes.

Magnum 2-Blade Ivoprop ..... P/N 05-33240 ..... **$1,025.00**
Magnum 3-Blade Ivoprop ..... P/N 05-33250 ..... **$1,342.00**
Magnum 6-Blade Ivoprop ..... P/N 05-33260 ..... **$2,420.00**

IN-FLIGHT ADJUSTABLE PITCH IVOPROPS

The In-Flight Adjustable Pitch Ivoprop allows the pilot to change the propeller pitch in flight through a toggle switch mounted in the cockpit. Pressing the toggle switch one way sends an electric current through



the graphite brushes to the slip rings and finally to an electric motor. Torque from the electric motor is channeled to a planetary gear drive which turns the lead screw. Torsional rods transmit movement from the center of the prop to the outside section of the blades, causing the blade to twist therefore changing pitch. Total time for the full range of adjustment is about 5 seconds. Mounts directly to any Rotax gear box (B or C0 and can be adapted to VW, Subaru, Hirth, Arrow and smaller Lycoming and Continental engines. Older model Ivoprop ground adjustable props can be converted to the In Flight System with the Retrofit Kit. In Flight adjustable hub comes assembled with complete instructions. Weight of 3 blade 72" In Flight Adjustable Prop including all required parts (furnished) is 9 lbs. Specify aircraft and engine make and model, and propeller diameter (48" to 76"). Standard Ivoprop is for engines up to 100 hp. Medium Ivoprop is for engines around 100HP (52"-74" prop dia.). Magnum Ivoprops are a high-horsepower version with wider blades and a bigger hub for engines up to 700 HP (56"-76" prop. dia.).

Magnum 2-Blade Ivoprop Kit ..... P/N 05-33270 ..... **$2,451.00**
Magnum 3-Blade Ivoprop Kit ..... P/N 05-33280 ..... **$2,755.00**
Magnum 6-Blade Ivoprop Kit ..... P/N 05-33290 ..... **$3,849.00**
Magnum Retrofit Kit for Ground Adjustable Ivoprops
P/N 05-33295 ..... **$1,590.00**

LIGHT SPORT AVIATION SPINNERS



These high quality 8" and 9" spinners and bulkheads are made in the USA from 6061 aluminum and heat treated to T6 condition using Nadcap approved heat treat process. Meets or exceeds all physical and mechanical properties required to meet AMS 2770H and AMS4027. These spinners are highly polished and include standard prop cut-outs for Warp Drive, IVO, GSC 3 blade propellers and can be modified to accept other propellers. The spinners come coated with a protective finish that is easily peeled off after installation. The bulkheads are furnished predrilled to fit a Rotax 912 or 914 and Viking HF110 and can be modified for other engine applications.

Spinner 8" ..... P/N 05-06846 ..... **$198.00**
Bulkhead 8" ..... P/N 05-06847 ..... **$139.00**
Spinner 9" ..... P/N 05-06848 ..... **$215.00**
Bulkhead 9" ..... P/N 05-06849 ..... **$145.00**

ROTAX PROPELLER SPINNERS



For all props with standard Rotax® 75mm bolt pattern. Spinner bulk head is predrilled and installs between prop and gearbox flange. Spinner installs with single bolt.

4" Diameter
P/N 05-01129 ..... **$83.75**
5" Diameter
P/N 05-01131 ..... **$147.85**
6-3/4" Diameter
P/N 05-01132 ..... **$123.95**
7" Diameter
P/N 05-04447 ..... **$142.95**

AP

ULTRA-PROP



Select 2, 3, or 4 blade props. Each blade is moulded from a high strength glass-reinforced composite. High efficiency airfoil design means high thrust from a 59" diameter prop. One set of pitch blocks included, additional blocks available in 1° increments. Universal hubs made from high strength composite. Accommodates most popular bolt-mounting patterns. Each prop comes complete with all assembly and mounting hardware, and complete instructions. Black blades and hub are beautifully complemented by high impact polyester spinner. Blades can be trimmed to length, allowing custom prop diameters as small as 48".

Description	Part No.	Price	Description	Part No.	Price
Kit 2 Blade LH	UP102L	**$235.00**	Kit 2 Blade RH	UP102R	**$235.00**
Kit 3 Blade LH	UP103L	**$285.00**	Kit 3 Blade RH	UP103R	**$285.00**
Kit 4 Blade LH	UP104L	**$339.00**	Kit 4 Blade RH	UP104R	**$340.00**
Kit 5 Blade LH	05-06456	**$440.00**	Kit 5 Blade RH	05-06455	**$440.00**
Kit 6 Blade LH	05-06458	**$495.00**	Kit 6 Blade RH	05-06457	**$495.00**

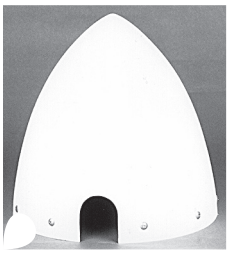
ACCESSORIES

Description	Part No.	Price	Description	Part No.	Price
Pitch Block Set 9 DG	UP9	**$8.50**	Pitch Block Set 10 DG	UP10	**$8.50**
Pitch Block Set 11 DG	UP11	**$8.50**	Pitch Block Set 12 DG	UP12	**$8.50**
Pitch Block Set 13 DG	UP13	**$9.50**	Pitch Block Set 14 DG	UP14	**$8.50**
Pitch Block Set 15 DG	UP15	**$8.50**	Pitch Block Set 16 DG	UP16	**$8.50**
Pitch Block Set 17 DG	UP17	**$8.50**	Pitch Block Set18 DG	UP18	**$8.50**
Bolt Sleeve Set	UPSLEEVE	**$3.85**	Hardware Pack	UPHDW	**$4.00**
Replace LH Blade	UP105P	**$73.50**	Replace Blade RH	UP105T	**$73.50**
Hub half 2 Blade	UP1072	**$35.00**	Hub Half 3 Blade	UP1073	**$35.00**
Hub Half 4 Blade	UP1074	**$35.00**			

ULTRA-PROP SPINNER - Kit includes white polyester spinner, mounting bracket, and all extra hardware for installation. Specify Quicksilver MX belt drive type with 1/4 inch mounting hardware or Rotax gear drive with 5/16 or 8 mm mounting hardware. Note: Designed for use on Ultra-Prop only.

1/4" MX..... P/N 05-04958 ..... **$59.95**
5/16" Rotax ... P/N 05-04959 ..... **$59.95**

UHS FIBERGLASS SPINNERS



UHS spinners are practical, attractive, and flight proven having enhanced the apperance of many different aircraft. The spinners are available in 8", 9", 10", 11", 12" & 14" diameters for various engine and propeller combinations. For GSC, Ivoprop, Warp Drive, and Power Fin propellers using Rotax, Lycoming, Cont. & Mosler engines, spinners are sent cut out and assembled.

For pre-drilled cut-outs we require the following information:

1. Make and size of engine.
2. Make of Propeller.
3. Number of Blades.
4. Size required.

Given adequate information, we can also fabricate spinners for many other propeller-engine combinations. Call with your requirements and we will assess your particular application.

Size	Description	P/N	Price	Size	Description	P/N	Price
8"	UHS Spinner	05-09000	**$161.95**	12"	UHS Spinner	05-09400	**$216.95**
9"	UHS Spinner	05-09100	**$192.95**	14"	UHS Spinner	05-09500	**$226.95**
10"	UHS Spinner	05-09200	**$201.95**	11.5"	Spinner Kit	05-09700	**$215.95**
11"	UHS Spinner	05-09300	**$216.95**	13.5"	Spinner Kit	05-09800	**$252.95**

SEAT BELT/HARNESS SET FOR HOMEBUILTS



Specially designed for the VariEze, this popular combination is also used in the Long-EZ, Quickie, Q2, Cozy, Sea Hawk and several other homebuilts. The belts are made to fit snugly, and the aluminum end fittings save weight. Order two sets for all above aircraft except Quickie which uses one set. Not FAA approved for certificated aircraft.

P/N 13-01300 ..... **$106.85 Set**

AERO-TUFF BELT & HARNESSES



H Loop Style



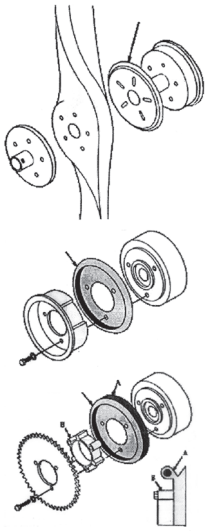
Y Fit Style

Aero-Tuff lap belts and shoulder harnesses are made from certified two inch wide webbing, all steel hardware pieces are chrome or cadmium plated. The end fitting have 5/16" bolt holes. Aero-Tuff restraint systems comply with ASTM Light Sport Aircraft standards. The units are for use in Light Sport, experimental and ultralight aircraft. These restraint systems shall not be used in certified aircraft.

Description	Part No.	Price
H Loop Black	05-04694	**$91.75**
H Loop Grey	05-04695	**$91.75**
H Fit Black	05-04696	**$101.75**
H Fit Grey	05-04697	**$107.85**
Y Fit Black	05-04698	**$97.75**
Y Fit Grey	05-04699	**$97.75**

SPECIAL ORDER COLORS ARE AVAILABLE. Use the part numbers listed below and specify color choice of: Red, Tan, Brown, Dark Brown, Dark Blue, Military Green, Charcoal, or White.

Description	Part No.	Price
H Loop Special Color	05-04746	**$119.95**
H Fit Special Color	05-04747	**$131.75**
Y Fit Speical Color	05-04748	**$141.75**



BALANCE MASTERS

Balance Master are patented, designed, manufactured and distributed in the U.S.A. and are easy-to-install devices for propellers and Rotax engines. These devices cut the vibration factor on Ultralight aircraft by as much as 50 percent when both balancers are installed. Balance Masters are weighted with a high-density liquid mass. The physical principles of centrifugal and gyroscopic forces explain the action of the Balance Masters. With the Balance Masters installed, the weighted liquid mass in the apparatus shifts during spinning, and adjusts to compensate for imbalances due to such factors as changes in flying conditions or warpage in the propeller, from nicks and rocks during takeoffs and landings. The Propeller Balance Masters mounts on the propeller shaft or gearbox in conjunction with the propeller. It is less than 7 inches in diameter.
Balance Master Instructions for all Propellers
Remove the prop from the gearbox or redrive. Place Balance Master on the prop box or hub so that the flat side of the Balance Master is against the prop. Put the prop back on the hub and snug the bolts. Torque your propeller to specification as desired by the propeller manufacturer and track the tips. Run the engine at full RPM for 1 minute and recheck the torque of the bolts. Also check the tracking of the tips one last time.

P/N 3871 ..... **$136.75**



ENGINE BALANCE MASTER

Made to fit most Rotax engines and bolts under the Starter Pulley on the Flywheel side of the engine. It is less than 5 inches in diameter. Each device weighs about 4 oz. Installation will take about 25-30 minutes using ordinary hand tools for each device. Balance Master is designed to fit most propeller bolt patterns and Rotax engines from 277FA through 582. We will need to know the manufacturer of your propeller and engine model to determine the right configuration.
Balance Master Instructions for Rotax Engines 277 / 532 / 582
Remove the 4 bolts from the recoil starter and set them aside. Remove 3 Allen head bolts from the starter engagement cup. Remove the starter cup and, if you have the Rotax 277, you will need to remove the dust cover (metal ring) located underneath the starter cup which will not be reinstalled. Place the starter cup inside the Balance Master, align the 3 holes and reinstall on the flywheel again, lining the 3 bolt holes. Sequentially tighten all 3 Allen head bolts, as this will press the Balance Master into place. Torque the 3 bolts to specification as directed by the engine manufacturer. Reinstall the recoil starter and torque the bolts to specification.
Rotax Electric Starter
Remove the starter housing from the engine; then remove the ring gear and spacer. Mount the flat side of the Balance Master against the flywheel and align the holes. Place the spacer and ring gear over the Balance Master. Reinstall the bolts and torque to specification. Reinstall the starter housing and retorque the bolts as directed by the engine manufacturer. Rotax 277 / 532 / 582 Balancer

P/N 3873 ..... **$119.00**

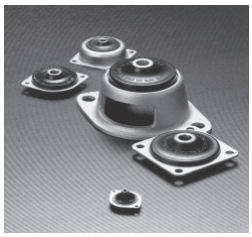
BALANCE MASTER INSTRUCTIONS FOR ROTAX ENGINES 377-447-503

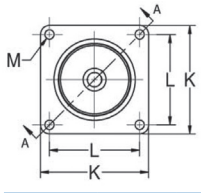
Remove the 4 bolts from the recoil starter and set them aside. Remove 3 Allen head bolts from the starter engagement cup. Remove the starter cup and fan pulley. You will no longer need the old pulley. Place the starter cup inside the new Balance Master pulley combination, lining up the 3 holes and reinstall the flywheel again, lining the 3 bolt holes. Sequentially tighten all 3 Allen head bolts as this will press the Balance Master into place. Torque the 3 bolts to specification as directed by the engine manufacturer. You may have to adjust the fanbelt tension. This requires a fan adjustment tool. Reinstall the recoil starter and torque the bolts to specification.
Rotax Electric Starter (Only)
Remove the starter housing from the engine; then remove the ring gear and spacer. Mount the flat side of the Balance Master against the flywheel and align the holes. Place the spacer and ring gear over the Balance Master. Reinstall the bolts and retorque the bolts as directed by the engine manufacturer. Rotax 377 / 447 / 503 Balancer

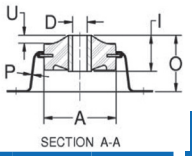
P/N 3875 ..... **$149.95**

LORD PLATE HOLDER MOUNT

Raised steel mount anchors to flat surface by means of four corner bolts or rivets. Commonly used on Quicksilver GT models. Available in two different configurations. Part #M7500 is load rated at 480 lbs./in. Part #M7502 is load rated at 720 lbs./in. See dimensions below.





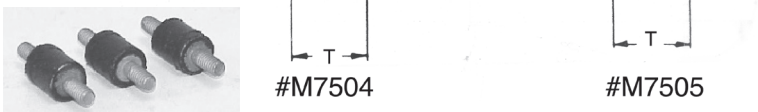


Part #	A	D	K	L
M7502	2.00	.391	3.00	2.50

Part #	M	O	P	U	Price
M7502	.257	2.475	.032	.22	**$77.75**

LORD INSTRUMENT PANEL MOUNTS

Miniature Sandwich mounts are ideal for vibration isolation of instrument panels. Available in two different sizes and styles. Body constructed of top quality Neoprene Rubber. See chart below for dimensional information.



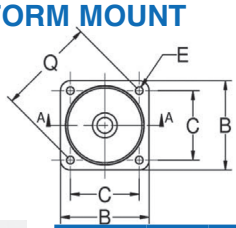


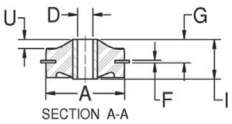
#M7504 #M7505

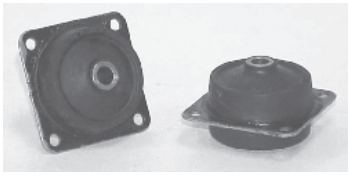
Part #	Shear Load	Compression	T	Stud Length #1	Threads	Stud Length #2	Threads	Price
M7504	1.5lbs.	10 lbs	.50”	.38”	8-32	.38”	8-32	**$6.75**
M7505	1.0 lbs.	6 lbs.	.50”	.38”	8-32		8-32	**$6.75**

HEAVY DUTY PLATE FORM MOUNT

One of the most common engine mounts on Ultralight aircraft. Used as standard equipment on many models. Mounts thru 1.5” diameter hole with four bolts or rivets in each corner.
See Chart Below for dimensions.







Part #	A	B	C	D	E
#3011	1.5	1.75	1.375	.257	.166

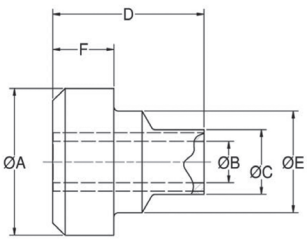
Part #	F	Q	R	U	Price
#3011	.050	1.945	.88	.18	**$38.95**

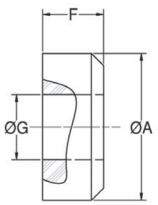
BARRY MOTOR MOUNTS

Two part configuration makes these mounts ideally suited for designing into either the support structure and isolated equipment. See Diagram. All Mounts listed are dimensionally identical with three different hardness indicated by part number. Commonly used on Hurricanes, Phantoms, Spitfires. See chart for dimensional information.



BOLT HOLE
15.391”





Part #	A	B	C Ref.	D	E	F	G	Hardness	Color Code	Price
3003	1.34/1.28	.407/.396	.58	1.28/1.22	.82/.76	.515/.455	.62/.58	Soft	Red-White	**$14.75**
3005	1.34/1.28	.407/.396	.58	1.28/1.22	.82/.76	.515/.455	.62/.58	Medium	Yellow-White	**$11.75**
3007	1.34/1.28	.407/.396	.58	1.28/1.22	.82/.76	.515/.455	.62/.58	Hard	Green-White	**$11.60**

AP

HEGAR WHEEL KITS



Spun aluminum wheel kit includes aluminum wheel halves, hubs,5/8 bearings, valve, tubeless kit and all necessary hardware, Compatible with Hegar brakes.

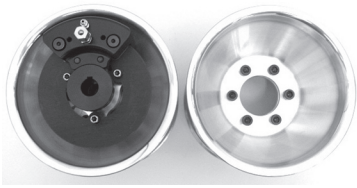
Note: Order tires separately.

4X6 Offset rim ..... P/N 06-00318 .. **$92.65**
4X6 Symmetrical(Quicksilver®)
P/N 06-00319 .. **$89.75**
5X6 Offset rim P/N 06-00320 .. **$89.75**
5X6 Symmetrical (Quicksilver®)
P/N 06-00321 .. **$89.75**
6X6 Offset rim ..... P/N 06-00322 .. **$97.25**
6X6 Symmetrical (Quicksilver® ..... P/N 06-00323 .. **$89.75**

The following Hegar wheels are designed to fit Quicksilver® nose gear allowing clearance for the steering fork.

3.5X5 MX(L) Nose Wheel ..... P/N 06-00324 **$111.95**
3.5X6 MX(L) Nose Wheel ..... P/N 06-00325 .. **$89.75**

HEGAR SPUN AND BILLET ALUMINUM WHEELS WITH BRAKES



6" SPUN ALUMINUM WHEEL Includes. 2 - 6" spun aluminum wheels. 2 - 5" calipers and 4-1/2" rotors. all lines and fittings. axles included 5/8" or 3/4". 5/8" precision ball bearings are 800 GVW. 3/4" precision ball bearings are 1100 GVW. Note: To be run tubeless, but tubes may be used. 3-3/4 lbs. per side wheel and brake.

6S X 5 - 5" Wide Wheel X 6" Diameter ..... P/N 06-01269 ..... **$588.00**
6S X 6 - 6" Wide Wheel X 6" Diameter ..... P/N 06-01270 ..... **$633.00**

5" BILLET ALUMINUM WHEEL - 5B X 5 W/ 6-3/8" Brake Assembly. kit includes. 2 - 5" billet aluminum wheels. 2 - calipers and 6-3/8" rotors. all lines and fittings. 1-1/4" precision ball bearings 1800 GVW per set. 3/4" precision ball bearings 1500 GVW per set. Note: Retro fits Cleveland brakes. Uses a tube with 90` valve stem ..... P/N 06-01667 ..... **$633.00**

HEGAR EXTERNAL DISC BRAKES

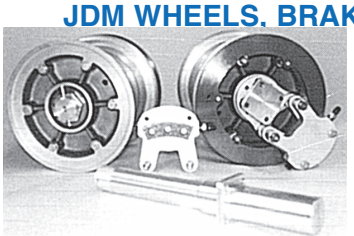
Heavy duty hydraulic external disk brakes for use with all Hegar wheels. Black anodized billet aluminum, 1/8" thick steel disk. Set includes 15 feet of high pressure nylon brake line, fluid with bleeder kit, and fittings. Axles and master cylinders must be ordered separately. Specify 5/8" or 3/4" bearings. P/N 15-05703 ..... **$586.00**

HEGAR BRAKE ACCESSORIES

Order the type of master cylinder(s) & actuator best suited to your aircraft. Standard keyed axles for all aircraft, except Quicksilver®.

Heel-Operated Master Cylinder ..... P/N 06-00328 ..... **$67.75**
Joystick-Mounted Master Cylinder ..... P/N 06-00329 ..... **$86.75**
Foot Linkage ..... P/N 06-00330 ..... **$99.95**
Hand Linkage ..... P/N 06-00331 ..... **$90.25**
Axles, 5/8" Standard, Set Of 2 ..... P/N 06-00332 ..... **$36.85**
Axles, 5/8" Quicksilver® Set Of 2 ..... P/N 06-00333 ..... **$63.25**
Axles, 3/4" Standard, Set Of 2 ..... P/N 06-00334 ..... **$36.50**
Dual 7" T-Lever Master Cylinder Assy. 1/2" .... P/N 06-01280 .... **$136.95**
Dual 7" T-Lever Master Cylinder Assy. 5/8" .... P/N 06-01597 .... **$136.95**
Dual 7" T-Lever Master Cylinder Assy. 3/4" .... P/N 06-01598 .... **$136.95**

JDM WHEELS, BRAKES AND AXLES



A quality built 6" wheel & brake designed for the homebuilt and ultralight flyer. Rated up to 2500 lbs. gross weight, these wheels easily accommodate 800 series tires for off-field landings and 600 series tires for low profile and an increase in speed. The brake disks made of cast iron provide for longevity and superior heat dissipation, while using Rapco brake pads to finish the system. The axles are 1-1/4" aluminum and use a 1-3/8" square bolt pattern. The kit does not include master cylinders, brake fluid line or axles and nuts. Each JDM brake and wheel including the axle weigh only 10.3 lbs. Kit includes 1 wheel and 1 brake.

6" wheel & Brake Assembly* (1-1/4" Tapered Roller Bearing)
P/N 06-03475 ..... **$505.95 ea**
1-1/4" Axle & Castle Nut ..... P/N 06-03480 ..... **$96.00 ea**



MATCO 6" WHEELS & BRAKES FOR ULTRALIGHTS

This top quality wheel and brake set is excellent for use on high-performance ultralights. Set incl.: 2 aluminum wheels & brakes with 5/8" bearings, 2 axles, 2 spacers, 2 brake bleeder seats & valves, 4 brake line fittings, 12 ft. of 1/4" dia. x .035 wall brake line & 1 vertical master cylinder.
P/N 06-16800 ..... **$598.00**

Same as set #06-16800 except with 2 vertical master cylinders
P/N 06-16840 ..... **$697.00**

Same as set #06-16800 except with 1 laydown style master cylinder
P/N 06-16850 ..... **$648.00**

Same as set #06-16800 except with 2 laydown style master cylinders
P/N 06-16860 ..... **$697.00**

AVAILABLE SEPARATELY:

6" Wheel & Brake ..... P/N 06-16810 ..... **$459.00**
5" Nose wheel with 5/8" Bearings ..... P/N 06-16820 ..... **$79.50**
A-4 Axle, 9.75" Long, 5/8" Dia. ..... P/N 06-16830 ..... **$43.90**

AZUSA LITE NYLON WHEELS

4, 5 AND 6 INCH MODELS



Azusalite wheels are made from engineering grade Nylon which combines high tensile and compressive strengths and good impact resistance. Excellent for many homebuilt and ultralight aircraft applications since they weigh 60-70% less than aluminum wheels. Azusalite wheels are offered in 4", 5" and 6" models. Replacement parts and unlisted accessories available on request.

AZUSALITE 5" WHEEL – Used as the main wheels on the Mohawk ultralight, this 5 inch wheel features 5/8" I.D. sealed ball bearings and uses a 4.10 / 3.50 x 5 or 5.00 x 5 tire and tube.
P/N 06-02500 ..... **$21.85**

AZUSALITE 4" WHEEL – A 4 inch Azusalite wheel featuring 5/8" sealed ball bearings. Uses a 4.10 / 3.50 x 4 tire and tube.
P/N 06-02600 ..... **$16.75**

AZUSALITE 6" WHEEL – A 6 inch Azusalite wheel which comes complete with 5/8" sealed ball bearings. Uses a 4.10 / 3.50-6 or a 6.00-6 tire and tube. ..... P/N 06-02700 ..... **$27.50**



AZUSA TIRES & TUBES (SAWTOOTH TREAD)

4 .10 / 3.50 x 4 Tire & Tube
P/N 06-02800 ..... **$19.85 Ea**
4 .10 / 3.50 x 5 Tire & Tube
P/N 06-02900 ..... **$24.00 Ea**
4.10 / 3.50 x 6 Tire & Tube
P/N 06-03000 ..... **$26.00 Ea**

AZUSA RIBBED TIRE ROUND PROFILE RIBBED ROUND PROFILE

4.80 x 4.00 x 8 Tire & Tube ..... P/N 06-03010 ..... **$26.50 Ea**



AZUSA ALUMINUM WHEELS

5" AZUSA ALUMINUM WHEEL – Complete with 5/8" I.D. sealed bearing.
P/N 1144 ..... **$26.50**

5" AZUSA ALUMINUM WHEEL & BRAKE KIT – Kit consists of (2) #1144 wheels with 5/8" sealed bearings, (2) #2270 aluminum Azusa brakes, (2) #2211 brake drums (2) 11.400-5, 6-ply Lamb tires and Azusa #7131 (2) 340/300 x 5 tubes.
P/N 06-03100 ..... **$188.95**

5" AZUSA ALUMINUM WHEEL – Complete with 3/4" bearing.
P/N 06-00376 ..... **$32.50**

6" AZUSA ALUMINUM WHEEL – Complete with 5/8" I.D. sealed bearings. Wt. 3.9 lbs. P/N 06-03200 ..... **$39.95**

6" AZUSA ALUMINUM WHEEL – Complete with 5/8" I.D. Timken bearings. Wt. 4.1 lbs. P/N 06-03300 ..... **$54.75**

6" AZUSA ALUMINUM WHEEL – Complete with 3/4" I.D. Timken bearings. Wt. 4.2 lbs. P/N 06-03400 ..... **$45.75**

8" AZUSA ALUMINUM WHEEL & BRAKE KIT – Kit consists of (2) #1175 wheels, (2)#2530 brakes, (2)#2542 drums, (2)4.80 x 4.00 tires and tubes, & hardware. P/N 06-03410 ..... **$257.95**

AZUSA BRAKES FOR AZUSA 5" & 6" WHEELS

These 4.5" brakes have a long actuating arm, 5/8" mounting hole, and bonded lining. Available in anchor style w/ built-in anchor & 2 cable mounting ears, or round style which features a round aluminum backing plate. Platform required w/ 5" Azusalite.

P/N	Description	Price
06-03415	Anchor Style Brake #2208	$39.90
06-03420	Round Style Brake #2270A	$32.50
01-00169	Brake Assy. 2272A (Right)	$34.75
01-00306	Brake Assy. 2272A (Left)	$37.75
06-03425	Brake Arm #2263	$1.28
06-03430	Spring #2264	$0.74
06-03435	Cam #8235	$4.80
06-03440	Platform #2259A	$6.50
06-03445	Lined Shoes (1/side) #2260	$17.95

AZUSA BRAKES FOR AZUSA 8" WHEELS

These 5" brakes are used on Azusa #1175 wheels only. Features a round aluminum backing plate and actuating arm which allows for 8 positions.

P/N	Description	Price
06-03450	Round Style Brake #2530	$35.75
06-03455	Brake Arm #2537	$4.75
06-03460	Spring #2539	$0.65
06-03465	Cam #2533	$7.95
06-03470	Lined Shoes (1/side) #2538	$18.65

HOMEBUILT TIRES & TUBES



These industrial tires & tube assemblies from Goodyear are used on a unique variety of homebuilt & ultralight aircraft airplanes. Sold as set of tire & tube only.

Dimensions	Ply	Part No.	Price
4.10 x 3.50 x 4	4 PLY	06-10830	$25.50
3.40 x 3.00 x 5	4 PLY	06-10840	$21.80
11 x 4.00 x 5	2 PLY	06-10860	$27.90
13.5 x 6.00 x 6	2 PLY	06-10870	$37.00
4.80 x 4.00 x 8	4 PLY	06-10880	$25.25
400x6	--	06-01503	$7.85
4.10 x 3.50 x 5	--	06-00714	$10.90
11 x 4.00 x 5	2 PLY	06-00715	$14.85
11 x 4.50 x 6	--	06-00716	$12.50
4.80 x 4.00 x 8	--	06-00720	$9.75
20 x 7.00 x 8	2 PLY	06-01596	$119.85

2008 tire superceded by Carlisle.

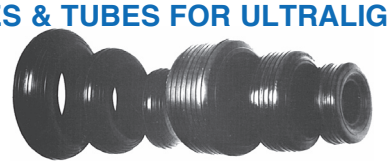
11.400 X 5 TIRES & TUBES



This tire fills the size gap between the 5.00-5 aircraft tire and the 3.40-5 industrial tire. Looks like a scaled-down 5.00-5. Fits VariEze, KR's and most experimentals using 5" wheels. These tires require tubes. (tube-type). Formerly known as Lamb tires, these are superceded by Cheng.

11.400-5 (6 Ply) Tire..... P/N 06-07400 .....**$15.65**
11.400-5 (8 Ply) Tire..... P/N 06-07500 .....**$34.50**
11.400-5 Tube ..... P/N 06-07600 .....**$9.75**

TIRES & TUBES FOR ULTRALIGHTS



TIRES

Part No.	Nom. Size	W	Dia.	Price
06-00361	300 x 4	3.2"	10.0"	$31.50
06-00362	400 x 5	3.9"	10.5"	$13.50
06-00363	400 x 6	4.1"	13.0"	$15.85
06-00366	800 x 6	6.0"	16.3	$77.65

TUBES

Part No.	Size	Price
06-00354	300x4	$12.95
06-00355	3.50x5	$11.75
06-00356	600x6	$17.50
06-00357	400x5	$12.65
06-00358	800x6	$23.90



AZUSA RIBBED / FLAT PROFILE TIRES

Azusa Ribbed/Flat Profile Tires. Price per tire. Note: These are not automotive tires, extra inflation precautions are required.

Size / Tire	Ply / Width	OD* / Innertube	Part No.	Price
11-400 X 5 / 7164	2 / 3.2"	10.5" / 7131	06-01571	$20.75
11-400 X 5 / 7046	4 / 3.9"	10.5" / 7131	06-00362	$13.50
11-400 X 5 / 7046-8	8 / 3.2"	10.8" / 7131	06-01573	$29.95
13-500 X 6 / 7168	2 / 4.8"	12.6" / 7133	06-01568	$27.85
410/350 x 6	4 / 4.0"	12.5 / 7039	06-00074	$17.50
13-500 X 6 / 7018	4 / 4.8"	12.6" / 7133	06-01572	$22.75
13-500 X 6C / 7087	4 / 4.8"	12.6" / 7133	06-01574	$32.50
13-650 X 6 / 7031	4 / 6.0"	12.5" / 7141	06-01575	$38.75
15-600 X 6 / 7169	2 / 5.9"	14.8" / 7125	06-01576	$31.75
800 X 6 / 7007	4 / 8.0"	16.0" / 7138	06-01578	$92.50
16-650 x 8 /7024-2	2 / 6.4"	16.4" / 7118	06-01609	$43.75
16-650 X 8 / 7024-2	2 / 6.4"	16.4" / 7118	06-01579	$43.75
18-850 X 8 / 7002	4 / 8.0"	16.5" / 7120	06-01580	$58.50
18-950 X 8 / 7027	4 / 8.0"	17.4" / 7120	06-01581	$65.50
13-500 x 6 / 7018	2 / 4.8"	12.6" / 7133	15-04692	$26.75
15-600 x 6 / 7050-2	2 / 5.9"	14.8" / 7125	15-06910	$31.75

Tubes	Part No.	Price
Azusa Tube #7133 410/350X6	06-00075	$7.95
Azusa Tube #7131 340/300 X 5	06-00822	$7.90
Azusa Tube #7120 18-950 X 8	15-04731	$24.50
Azusa Tube #7116 11-600 X 5	15-06300	$13.55
Azusa Tube #7141 410/350X6	06-01590	$11.75
Azusa Tube #7125 15-600 X 6	15-04869	$11.95
Azusa Tube #7138 800 X 6	06-01592	$21.65
Azusa Tube #7118 16-650/750 X8	06-01593	$15.50

HEGAR NOSE WHEELS



6" SPUN ALUMINUM NOSE WHEEL - The 6" Spun Aluminum nose wheel with 5/8 bearings. Comes centered when using the MX o-ring standard wheel hub but can also be purchased with the MX offset hub (no o-ring with offset hub. Requires the use of a tube. .Comes complete with nuts, bolts, washers, valve stem, o-rings if required and the MX hub. May also be used as main wheels. P/N 06-01274 .....**$89.80**



6" BILLET ALUMINUM NOSE WHEEL - 1-1/4" OR 3/4" Precision ball bearing. matches with the 6.375" Hegar Billet aluminum brake kit. P/N 06-01275 .....**$89.75**

HEGAR MASTER CYLINDERS



5" SINGLE LEVER MASTER CYLINDER - 5" single lever, foot operated. Designed for single braking. Stock unit has 1/2" bore. 5/8" and 3/4" bore are available as a special order.
P/N 06-01277 ..... **$89.75**

5" DUAL LEVER MASTER CYLINDER - 5" dual lever, foot operated. Designed for differential braking. Comes in your choice of 1/2", 5/8" and 3/4" bore sizes.
1/2".....P/N 06-01278 ..... **$136.95**
5/8".....P/N 06-01611 ..... **$189.50**
3/4".....P/N 06-01612 ..... **$189.50**

7" SINGLE LEVER MASTER CYLINDER - 7" single lever, hand operated. Designed for single braking. Comes in your choice of 1/2", and 5/8" bore sizes. P/N 06-01279 ..... **$89.75**

7" DUAL LEVER MASTER CYLINDER - 7" dual lever, hand operated. Designed for differential braking. Comes in your choice of 1/2", 5/8" and 3/4" bore sizes. P/N 06-01280 ..... **$136.95**

LG

ULTRALIGHT SAILS



Our sails are made in the United States by a top flight sail loft. These sails are made from the highest quality 3.9 oz. Dacron, many of them from the original OEM sail patterns. These sails are guaranteed to fit properly. All sail sets come complete with tail feathers and fuselage covers, except where noted. All sail orders are on custom-fabricated basis. Therefore, please allow an average of three weeks for delivery. There are no refunds on sail sets unless they are defective. Non-refundable 100% deposit or credit card purchase required. A wide selection of sail colors are available. Prices subject to change without notice.

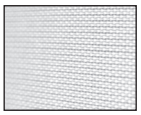
Model	Part No.	Price
Teratorn Aircraft		
Tierra 2-Place Sail set(excludes cabin enclosure)	09-01780	**$1,845.00**
Tierra Complete Sail Set	09-01781	**$1,856.00**
Tierra Wing Surface set	09-01782	**$1,345.00**
T/A Complete Sail Set	09-01783	**$1,198.00**
T/A Wing Surface Set	09-01784	**$1,031.00**
Teratorn W/S Complete Sail Set	09-01785	**$835.00**
Tierra Aileron Surface Set	09-01786	**$227.95**
Elevator Surface Set	09-01787	**$155.95**
Tierra Horizontal Stabilizer	09-01788	**$194.95**
T/A Horizontal Stabilizer	09-01791	**$95.00**
Tierra Vertical Stabilizer	09-01792	**$85.00**
T/A and Tierra Rudder	09-01793	**$122.95**
Star Flight Aircraft		
TX 1000 and 2000 Complete Sail Sets	09-01794	**$1,252.00**
TX 1000 and 2000 Wing Surface Sets	09-01795	**$1,136.00**
Elevator Surface Set	09-01796	**$100.00**
Horizontal Stabilizer	09-01797	**$105.95**
Rudder Surface	09-01798	**$95.00**
Hurricane, Avenger & Phantom Aircraft Complete Sail Set	09-01799	**$1,447.00**
Wing Surface Set	09-01801	**$1,197.00**
Aileron Surface Set	09-01802	**$270.00**
Elevator Surface Set	09-01803	**$140.00**
Horizontal Stabilizer Surface Set	09-01804	**$140.00**
Upper Vertical Stabilizer	09-01805	**$80.00**
Lower Vertical Stabilizer	09-01806	**$50.00**
Rudder Surface	09-01807	**$105.95**
Advanced Aviation		
Cobra A or B Complete Sail Set	09-01855	**$1,724.00**
Cobra A or B Wing Surface Set	09-01856	**$1,445.00**
Cobra Aileron Surface Set	09-01857	**$250.95**
Cobra Horizontal Stabilizer	09-01858	**$165.95**
Cobra Elevator Surface Set	09-01859	**$140.00**
Cobra Rudder Surface	09-01860	**$115.95**
Explorer Complete Sail Set	09-01861	**$1,776.00**
Explorer Aileron Surface Set	09-01862	**$175.00**
Explorer Wing Surface Set	09-01863	**$1,327.00**
Explorer Wing Flap Set	09-01864	**$160.95**
Explorer Horizontal/Elevator Set	09-01865	**$275.00**
Explorer Vertical Stabilizer	09-01866	**$140.00**
Explorer Rudder Surface	09-01867	**$150.95**
Explorer Gap Cover	09-01868	**$95.00**
Buccaneer 2 & Carrera 180	09-01869	**$2,337.00**
Buccaneer 2 Wing Only	09-01870	**$1,223.00**
Buccaneer 2 Aileron Set	09-01871	**$225.00**
Buccaneer 2 Vertical Stabilizer	09-01872	**$179.95**
Buccaneer 2 Rudder Surface Set	09-01873	**$150.95**
Buccaneer 2 Stabilizer/Elevator	09-01874	**$280.00**
Buccaneer 2 Gap Cover	09-01876	**$95.00**
Buccaneer 2 Flap Set	09-01877	**$170.00**
Buccaneer SX Sail Set	09-01878	**$2,156.00**
Carrera Complete Sail Set(Includes Pylon Cover)	09-01879	**$2,245.00**
Carrera Complete Sail Set	09-01880	**$1,249.00**
Carrera Wing Surface Set	09-01881	**$225.00**
Carrera Wing Surface Set	09-01882	**$669.00**
Carrera Wing Flap Set	09-01883	**$173.95**
Carrera Aileron Set	09-01884	**$150.95**
Carrera Pylon Fairing	09-01885	**$281.95**
Quicksilver Aircraft		
MX Complete Sail Set	09-01736	**$975.00**
MX Wing Surface Set	09-01737	**$729.00**
MX Qualifier Complete Sail Set	09-01738	**$1,246.00**
MX Qualifier Wing Set	09-01739	**$1,089.00**
MX Tapered Stabilizer Option	09-01763	**$60.00**
MX Horizontal Stabilizer	09-01765	**$80.00**
MX Rudder Surface	09-01768	**$95.00**
MX-MXL Elevator Set	09-01764	**$95.00**
MX2 Complete Sail Set	09-01740	**$1,015.00**
MX2 Wing Surface Set	09-01741	**$744.00**
MX2 H.P. Complete Sail Set (X-tra Ribs/ Tapered Stabilizer)	09-01742	**$1,150.00**
Quicksilver Weight Shift Rudder	09-01769	**$85.00**
Quicksilver Weight Shift Complete Sail Set	09-01743	**$875.00**
MXL Complete Sail Set	09-01744	**$1,595.00**
MXL Wing Surface Set	09-01745	**$1,250.00**
MXL Aileron Surface Set	09-01766	**$259.00**
MXL Tapered Stabilizer	09-01767	**$100.00**

Model	Part No.	Price
MXL Sport 2 Complete Sail Set	09-01746	**$1,750.00**
MXL Sport 2 Wing Sail Set	09-01747	**$1,425.00**
MXL Super Sport Complete Sail Set	09-01748	**$1,650.00**
MXL Super Sport Wing Sail Set	09-01749	**$1,299.00**
Sprint Complete Sail Set	09-01751	**$1,225.00**
Sprint Wing Sail Set	09-01752	**$859.00**
Sprint 2 Sail Set	09-01755	**$1,335.00**
Sprint 2 Wing Set	09-01760	**$965.00**
GT 400 Complete Sail Set(Includes Pylon Cover)	09-01761	**$2,315.00**
GT 500 Complete Sail Set	09-01790	**$2,306.00**
GT 400 Wing Surface Set	09-01770	**$1,265.00**
GT 500 Wing Surface Set	09-01771	**$1,335.00**
GT 400/500 Wing Flap Set	09-01772	**$215.00**
GT 400/500 Aileron Set	09-01773	**$215.00**
GT 400 Pylon Fairing	09-01774	**$525.00**
GT 400/500 Stabilizer/Elevator Set	09-01775	**$275.00**
GT 400 Rudder	09-01776	**$145.00**
GT 500 Rudder	09-01777	**$245.00**
GT 400 Vertical Stabilizer	09-01778	**$50.00**
GT 500 Vertical Stabilizer	09-01779	**$1,447.00**
GT 500 Door Set (Left & Right)	09-01762	**$825.00**
Wizard Aircraft		
Weight Shift Complete Sail Set	09-01808	**$1,058.00**
J-3 Complete Sail Set	09-01809	**$1,169.00**
J-3 Wing Surface Set	09-01810	**$965.00**
T-38 Complete Sail Set	09-01811	**$1,350.00**
T-38 Wing Surface Set	09-01812	**$1,170.00**
J-3 & T-38 Elevator Surface Set	09-01813	**$90.00**
J-3b & T-38b Elevator Surface Set	09-01814	**$90.00**
J-3 & T-38 Rudder A or B	09-01815	**$95.95**
Flight Star Aircraft		
Flight Star Complete 2 Place Sail Set	09-01816	**$2,162.00**
Flight Star Complete Single Place Sail Set	09-01817	**$1,614.00**
Flight Star Wing Surface Set	09-01818	**$1,090.00**
Flight Star Aileron Surface Set	09-01819	**$305.95**
Flight Star Elevator Surface Set	09-01820	**$143.95**
Flight Star Horizontal Stabilizer Surface	09-01821	**$139.95**
Flight Star Vertical Stabilizer	09-01822	**$75.00**
Flight Star Rudder Surface	09-01823	**$95.00**
Flight Star 2-Place Left & Right Wing	09-01824	**$1,327.00**
Rotec Rally Aircraft		
Rotec Ralley 2b & Champ Complete Sail Set	09-01826	**$1,075.00**
Rotec Ralley 2b & Champ Wing Surface Set	09-01827	**$890.00**
Rotec Ralley Sport Complete Sail Set	09-01828	**$1,115.00**
Rotec Ralley Rally 3 Complete Sail Set	09-01829	**$1,390.00**
Rotec Ralley Rally 3 Wing Surface Set	09-01830	**$1,235.00**
Rotec Ralley Rally Wing Tip Option	09-01831	**$90.00**
Rotec Ralley 2b & Champ Elevator Surface Set	09-01832	**$90.00**
Rotec Ralley 2b & Champ Horizontal Stabilizer	09-01833	**$90.00**
Rotec Ralley Sport Elevator Set	09-01834	**$110.95**
Rotec Ralley Sport Rudder	09-01835	**$105.95**
BI-RD Aircraft		
BI-RD Complete Sail Set	09-01836	**$1,526.00**
BI-RD Wing Surface Set	09-01837	**$1,218.00**
Aileron Surface Set	09-01838	**$140.00**
Elevator Surface Set	09-01839	**$95.00**
Horizontal Stabilizer Surface Set	09-01840	**$95.00**
Vertical Stabilizer Surface	09-01841	**$45.10**
BI-RD Rudder	09-01842	**$85.00**
Condor Aircraft		
Condor Complete Sail set	09-01843	**$1,160.00**
Condor Wing Surface Set	09-01844	**$940.00**
Elevator Surface Set	09-01845	**$105.95**
Horizontal Surface	09-01847	**$105.95**
Rudder Surface	09-01848	**$90.00**
Weedhopper Aircraft		
Weedhopper Super Nova Set	09-01849	**$1,620.00**
Weedhopper C or B Complete Sail Set	09-01850	**$1,475.00**
Weedhopper C or B Wing Surface Set	09-01851	**$1,295.00**
Weedhopper Stabilizer/Elevator Surface Set	09-01852	**$290.00**
Weedhopper Sub Fin Surface	09-01853	**$55.00**
Weedhopper Rudder Surface	09-01854	**$85.25**

This FAA approved process utilizing Poly-Fiber Dacron polyester and the unique "Poly" line of finishes assures a beautiful, durable, weather-resistant cover job every time. Documented time tested results by the professionals. The Poly-Fiber Covering Process was issued Supplemental Type Certificate No. SA-1008-WE in 1965 and this number will apply to all aircraft.

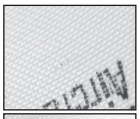
Note: Formerly known as Stits covering process. Only Poly-Fiber materials may be used through the topcoat paint to comply with STC requirements. Poly-Fiber finishes are required for approval. Poly-Fiber is approved for use on most certified aircraft. To be sure, check the Master Eligibility List in the latest revision of Poly-Fiber Procedure Manual No. 1.

POLY-FIBER FABRIC



UNCERTIFIED LIGHT

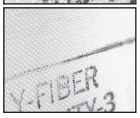
1.87 oz lightweight fabric recommended for covering ultralight aircraft. This fabric will be unstamped. It is not approved for certified aircraft except on plywood surface. 72" Width P/N 09-02001 ..... **$8.40 /Lineal Yd.**



MEDIUM WEIGHT

3.16 oz standard fabric recommended for normal service on all types of aircraft regardless of speed, wing loading or horsepower. 72" Width

P/N 09-01600 ..... **$11.95 /Lineal Yd.**



HEAVY DUTY

3.5 oz Recommended for severe operating conditions and very high wing loading aircraft where a very tough, durable, low elongation, high tension fabric is required and weight is not critical. Great for agricultural, aerobatic and bush planes. 72" Width P/N 09-01700 ..... **$13.30 /Lineal Yd.**

POLYESTER PADDING

Non -woven, 45" wide, 3 oz. per yard. Used under fabric on wing leading edge and turtle deck to smooth rough surfaces.

P/N 09-01750 ..... **$7.20**

POLY-FIBER POLYESTER FINISHING TAPES

Part No.	Style #	Roll Width	Roll Length	Price.
09-02200	Med.	1"	25 yds.	**$16.05**
09-02400	Med.	1-1/2"	25 yds.	**$17.65**
09-02450	Med.	2"	25 yds.	**$23.20**
09-02500	Med.	2"	50 yds.	**$30.20**
09-02900	Med.	3"	25 yds.	**$27.80**
09-03300	Med.	4"	25 yds.	**$32.40**
09-03350	Med.	6"	25 yds.	**$45.00**
09-02300	Light	1"	25 yds.	**$16.05**
09-02350	Light	1-1/2"	25 yds.	**$17.65**
09-02705	Light	2"	25 yds.	**$23.20**
09-02700	Light	2"	50 yds.	**$30.20**
09-03100	Light	3"	25 yds.	**$27.80**
09-03400	Light	4"	25 yds.	**$32.40**
09-03545	Light	6"	25 yds.	**$45.00**
09-03565	Bias	2"	25 yds.	**$32.45**
09-03570	Bias	3"	25 yds.	**$46.15**
09-03580	Bias	4"	25 yds.	**$57.35**

POLY-FIBER TAPES, CORD & THREAD



	Item	P/N	Yds. Spool	Price
Reinforcing Tape	1/4" Wide	09-03500	60	**$55.00**
	3/8" Wide	09-03600	60	**$56.60**
	1/2" Wide	09-03700	60	**$57.95**
Rib Lacing Cord	(Std. Round)	09-03800	296	**$45.25**
	Rib Cord, Flat	09-03810	500	**$45.25**
Sewing Thread	Machine	09-03900	500	**$15.25**
	Hand	09-04000	250	**$11.75**

HEAVY INTER-RIB BRACING TAPE

Non-adhesive polyester twill tape for inter-rib bracing. Twice as strong as cotton tape. 36 yd. rolls.`1/2" Wide P/N 09-40912 ..... **$16.70**



AIRCRAFT FABRIC COVERING

Aircraft Fabric Covering is a must for anyone who wants to cover their own airplane. This 2-hour comprehensive DVD presents every aspect of the Poly-Fiber™ fabric covering process in detail, and in easy-to-understand language. From preparing the airplane for covering to spraying on the colors, you are guided step by step through the entire process by a professional EAA SportAir fabric instructor. When used in conjunction with the Poly-Fiber manual, Aircraft Fabric Covering removes the mystery surrounding this important process in the construction or restoration of your airplane. Information covered includes: • Preparing surfaces • Attaching the fabric •Tightening the fabric • Applying the first coat of Poly-Brush •Tying rib-lacing knots • Applying finishing tapes • Spraying UV-blocking chemical • Poly-Spray •Applying the color coats.

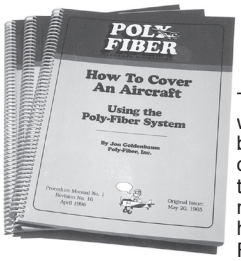
DVD ..... P/N 13-40428 ..... **$39.95**



THE POLY-FIBER PRACTICE KIT

If you're thinking of building a fabric-covered airplane but are wondering what the covering process is like, this is the perfect answer. You get a practice frame, fabric, tapes, needles, rib lacing cord, thermometer, instructions, and all the coatings you need to work through the Poly-Spray stage. There's enough of everything to do the entire process twice. You'll see how easy and enjoyable fabric covering really is.

P/N 09-06220 ..... **$62.50**



'HOW TO COVER AN AIRCRAFT USING THE POLYFIBER SYSTEM'

The Official Poly-Fiber how-to manual. It's a whole covering course in a book. A spiral-bound classroom, as the ads say. 151 pages of clear, non-jargon, step-by-step instruction, the entire Poly-Fiber system, from basic materials to blue ribbon. In plain language & has a sense of humor all its own. Entire Poly-Fiber catalog of products is included.

P/N 09-06000 ..... **$9.95**

Poly-Fiber Color Card #50 P/N 09-00234 ..... **FREE**

POLY-FIBER SOLVENTS & CLEANERS



METL-SOL C-2200 METAL SURFACE CLEANER

A strong solvent blend formulated to remove oil, silicone, wax and other contaminants from all metal surfaces before priming. Not for painted surfaces.

Qt. ..... P/N 09-40710 ..... **$18.90**

Gal. ..... P/N 09-40720 ..... **$60.70**



C-2210 PAINT SURFACE CLEANER

A mild solvent blend formulated to remove oil, silicone, wax and other contaminants from all painted or primed surfaces. Also removes tape gum from painted surfaces and acrylic windshield materials.

Qt. ..... P/N 09-40810 ..... **$11.95**

Gal. ..... P/N 09-40820 ..... **$44.95**



310 ALKALINE DETERGENT CLEANER

Highly recommended as an alkaline metal cleaner for removing greases and oils. Also a very good cleaner for interior cabins and vinyl upholstery, as well as a wide variety of household applications to remove waxes, dirt, and stains. Furnished as a concentrate for 32:1 dilution with water. Lemon scented and not harmful to your hands.

Qt. ..... P/N 310-QT **$11.95**

Gal. ..... P/N 310-1G **$27.90**



POLY-FIBER MEK

Solvent used to remove coatings for repairs, for clean up, and to release cemented seams. NOT used to thin or reduce any products.

Qt. ..... P/N 09-40835 ..... **$14.30**

Gallon ..... P/N 09-40845 ..... **$41.25**

CS

POLY-FIBER AIRCRAFT COATINGS



POLY-BRUSH

FLAMMABLE

A pink translucent, 1 part air drying resin used for the first 2 or 3 coats to penetrate and seal the fabric weave and assure good adhesion. Also used to attach the finishing tapes and reinforcing patches. Brush on initial coat thinned 3:1 with reducer. Subsequent coats are thinned 3:1 with reducer and applied with a spray gun to avoid brush marks & cut application time.

	Tinted		*Untinted*	
Quart	P/N 09-04100	**$25.55**	P/N 09-04110	**$25.55**
Gallon	P/N 09-04200	**$85.00**	P/N 09-04210	**$85.00**
5 Gal.	P/N 09-04300	**$420.00**	P/N 09-04350	**$420.00**



POLY-SPRAY

FLAMMABLE

A high-solids aluminum-pigmented, 1 part, air drying resin used after the Poly-Brush preliminary coating to protect fabric from UV and prepare for a smooth finish. Thin 4:1.

Poly Spray (Qt.)	P/N 09-04400	**$25.20**
Poly Spray (Gal.)	P/N 09-04500	**$83.60**
Poly Spray (5 Gal.)	P/N 09-04600	**$413.10**



POLY-FIBER REDUCERS

FLAMMABLE

A blend of solvents used for viscosity and drying control of Poly-Brush, Poly-Spray and Poly-Tone. Blend #R-65-75 is recommended as the standard reducer in normal weather, 65°–75°F. #RR-8500 is a retarder-reducer with slower drying time. Recommended for temp above 85° & warm humid weather.

	#65-75		*#RR-8500*	
Qt.	P/N 09-04700	**$15.20**	P/N 09-04750	**$15.40**
Gal.	P/N 09-04800	**$47.80**	P/N 09-04850	**$48.25**
5 Gal.	P/N 09-04900	**$230.70**	P/N 09-04950	**$230.90**



POLY-FIBER RETARDER

This blended solvent improves flow-out and prevents blushing under high temperature or high humidity conditions. Improves gloss.

FLAMMABLE

BR-8600 (Qt.)	P/N 09-40830	**$14.00**
BR-8600 (Gal.)	P/N 09-40840	**$49.00**



POLY-TAK CEMENT

FLAMMABLE

Excellent cement for all types of fabrics. Shelf life unopened is 2 years.

Pint	P/N 09-05110	**$14.40**
Quart	P/N 09-05000	**$27.25**
Gallon	P/N 09-05100	**$99.80**



POLY-TONE® FINISH

A durable semi-gloss, 1-part, air drying flexible paint available in over 50 popular aircraft colors. Recommended as the standard finish for the Poly-Fiber cover process. Also may be used over suitably primed metal components of fabric covered aircraft. Fabric damage is more easily repaired when Poly-Tone finish is used. All pigments are non-bleeding or fading. Will not oxidize with age. Poly-Tone is always thinned to 4 to 1with Poly Fiber Reducer (65-75 or 8500).

FLAMMABLE

POLY-TONE FINISHES

4 Whites:	*QUART*	*GALLON*
Insignia White (#105)	**$24.50**	**$88.80**
Juneau White (#110)	**$24.85**	**$77.20**
Glacier White (#117)	**$24.50**	**$88.75**
Daytona White (#120)	**$24.85**	**$89.50**
All other colors (Color Card #50)		**No Charge**

TO ORDER POLYTONE: Create the part number for the Polytone you require: *Color*-PQ (for Quart) or *Color*-PG (for Gallon)
Example: 100-PQ is 1 Quart of Color #100

POLY TONE U.V. BLOCKING

FLAMMABLE

Used for additional UV Protection in ultralight airplanes. 1 fl.oz. blocks 1Quart Polytone

1/2 Pint Blocker (8 fluid oz) ..... P/N 09-02053 ..... **$23.75**

POLY TONE

FLAMMABLE RJ-1200

Quart	P/N 09-05200	**$24.50**
Gallon	P/N 09-05300	**$80.50**



STITS EPOXY PRIMER (GREEN) EP-420/EP-430

FLAMMABLE

This green primer is fast drying, corrosion inhibiting, and has application and curing qualities down to 35°F. It is a heavy duty chemical and solvent resistant amine cured primer. Mixing ratio is 2 parts base, 1 part catalyst. Order in kits.

Quart Kit (Yields2 1/2 quarts)
Incl. catalyst and reducer ..... P/N 09-00352 ..... **$74.60**

Gallon Kit (Yields 2 1/2 Gallons)
Incl. catalyst and reducer ..... P/N 09-00353 ..... **$298.00**

Base:	Quart	P/N 09-05605	**$48.35**
	Gallon	P/N 09-05610	**$165.40**
Catalyst:	Pint	P/N 09-05615	**$18.75**
	Quart	P/N 09-05620	**$31.80**
Reducer E-500 (Reduce 50%)	Quart	P/N 09-01163	**$15.75**
	Gallon	P/N 09-01108	**$37.15**



STITS EPOXY PRIMER (WHITE) EP-420/EP-430

FLAMMABLE

This white heavy duty chemical and solvent resistant amine cured primer, the excellent primer from Stits is fast drying and corrosion inhibiting. It can be applied and cured to temperatures down to 35°F. Mixing ratio is 2 parts base, 1 part catalyst.

Quart Kit (Yields 2 1/2 quarts)
Incl. catalyst and reducer ..... P/N 09-00285 ..... **$75.00**

Gallon Kit (Yields 2 1/2 Gallons)
Incl. catalyst and reducer ..... P/N 09-00438 ..... **$298.00**

Base:	Quart	P/N 09-05625	**$48.35**
	Gallon	P/N 09-05630	**$165.40**
Catalyst:	Pint	P/N 09-05615	**$18.75**
	Quart	P/N 09-05620	**$31.80**
Reducer E-500 (Reduce 50%)	Quart	P/N 09-01163	**$15.75**
	Gallon	P/N 09-01108	**$37.15**



STITS EPOXY VARNISH EV-400/EV-410

FLAMMABLE

An excellent clear gloss epoxy varnish for interior and exterior use. It provides superior weather durability and excellent chemical and solvent resistance. Can be used over a one component varnish primer if desired. Mixing ratio is 2 parts base, 1 part catalyst. Can be ordered as a kit which includes base, catalyst and reducer, or each component separately.

Quart Kit (Yields 2-1/2 quarts)
Incl. catalyst and reducer ..... P/N 09-00349 ..... **$65.35**

Gallon Kit (Yields 2-1/2 Gallons)
Incl. catalyst and reducer ..... P/N 09-00350 ..... **$217.80**

Base:	Quart	P/N 09-05645	**$37.60**
	Gallon	P/N 09-05650	**$127.55**
Catalyst:	Pint	P/N 09-05655	**$15.85**
	Quart	P/N 09-05660	**$26.55**
Reducer E-500 (Reduce 50%)	Quart	P/N 09-01163	**$15.75**
	Gallon	P/N 09-01108	**$37.15**



EPOXY ACCELERATOR EX-501

FLAMMABLE

A chemical curing accelerator for use in EP-420 Epoxy Primer and EV-400 Epoxy Varnish according to directions on base component listing. Reduces polymerization time, not solvent evaporation.

1/2 Pint ..... P/N 09-04650 ..... **$9.00**



POLY-FIBER ESO ENGINE STORAGE OIL

FLAMMABLE

A fine lubrication and preservative oil used to prevent corrosion in internal combustion engines during extended storage. MIL-21260.

Quart	P/N 09-42450	**$24.00**
Gallon	P/N 09-42455	**$89.00**

POLY-FIBER 60"X 48" FINE MESH PAINT STRAINER CONES

P/N 09-02115 ..... **$0.70**

IMPORTANT NOTICE: ***Poly-Fiber and Randolph Coatings are now manufactured by Consolidated Coatings Co.and current colors do NOT all match original Randolph colors. If matching an old color is required, please match it to a current color card or send in a sample of old color for custom matching.***

ALL mixed paints are special order and are non-returnable.

POLY FIBER AEROTHANE



A tough, flexible, high-gloss two part polyurethane especially formulated for fabric covered aircraft and marine surfaces subject to flexing loads. Recommended as a premium quality fabric finish over Stits Poly-Fiber covered aircraft. Wet look, high gloss. Aerothane requires catalyst, which is sold separately, and will be offered to you t the time of purchase. If you currently have an adequate supply please notify a sales rep or note it on you online order. Aerothane additives are also sold separatley, but must be requested as needed.

AERO-THANE (All Paint 3/4 filled cans)			
Size	**Color**	**Part No.**	**Price**
Quart	Insignia White	105-AQ	**$39.90**
Gallon	Insignia White	105-AG	**$129.95**
Quart	Juneau White	110-AQ	**$34.60**
Gallon	Juneau White	110-AG	**$113.15**
Quart	Glacier White	117-AQ	**$34.60**
Gallon	Glacier White	117-AG	**$113.15**
Quart	Daytona White	120-AQ	**$34.60**
Gallon	Daytona White	120-AG	**$113.15**
CLEAR AERO-THANE AO-100 (All paints 3/4 filled cans)			
Size	**Color**	**Part No.**	**Price**
3/4 Quart Paint	Clear	AO-100-QT	**$44.50**
3/4 Gallon Paint	Clear	AO-100-1G	**$151.00**

AERO-THANE ADDITIVES			
Description	**Size**	**Part No.**	**Price**
Urethane Catalyst U-865	1/2 Pint	09-05400	**$19.95**
Urethane Catalyst U-865	Quart	09-05500	**$53.65**
Urethane Reducer UE-820	Quart	09-05600	**$17.05**
Urethane Reducer UE-820	Gallon	09-05700	**$55.10**
Urethane Retarder UR-826	Quart	09-05800	**$18.55**
Urethane Retarder UR-826	Gallon	09-05900	**$60.35**

TO ORDER AEROTHANE:

Create the part number for the Aerothane you require: Color-A-Q(quart) or G (gallon). Add -K (kit) if catalyst is required. Example: 100-A-Q-K is 1 quart of color #100 with catalyst included.

POLY-TONE/AEROTHANE ENAMEL FLATTENER

Used to make Aerothane and Enamel match the semi gloss finish of Polytone, or to make either Aerothane, Polytone and Enamel Full Military Flat.

Use 1 Pint, to flatten 1 Quart .....P/N 09-02052 .....**$22.55**
Use 1 Qt. & 1 Pint, to flatten 1 Gallon.....P/N 09-02051 .....**$43.15**



CALIBRATION THERMOMETER

Thermometer is accurate from 100°F to 400°F / 50°C to 200°C. Easy-to-read dial. Adjustable pan clip. Durable stainless steel.

P/N 09-37475 .....**$14.40**

BLACK BARON FABRIC IRON



The Black Baron Iron was designed specifically for use on small aircraft. The exclusive “roll bars” fit into fillets and undercambers. The flat sole is for sheeted and open structures, and its beveled edges provide constant heat without marks. The toe is rounded and flat best performance. The coating is 100% blackstone making the iron slide like butter, even on tacky surfaces with almost no adhesive buildup. An advanced hi-tech thermostat reduces temperature drift to only 5° – Ordinary irons can vary up to 40°, causing surface bubbles. Get the best – get Black Baron.

110V .....P/N 09-37411 ..... **$24.50**

CUSTOM SEALING FABRIC IRON



This Teflon coated sealing works on a variety of coverings and has adjustable heat setting. It’s an AC unit which operates at 170 watts. The temperature range is approximately 100-350°F. Has a 1-year warranty.

110V .....P/N 09-37400 .....**$27.75**
220V .....P/N 09-37401 .....**$48.85**

POLY-FIBER COLORS AVAILABLE

Each color group in chart below is listed from light to darker shades. Free Poly-Fiber color chart available on request. Color Card #50.

CLEAR
100.....(Aerothane Only)

WHITE
105.....Insignia White (Eagle White)
110.....Juneau White
117.....Glacier White (Federal 17038)
120.....Daytona White

CREAM
132.....Sun Valley Ivory
125.....Tucson Cream
131.....Diana Cream

YELLOW
242.....Ag Cat Yellow
136.....Lemon Yellow
139.....Federal Yellow
145.....Lockhaven Yellow
240.....Champion Yellow Titanine Yellow
140.....Orange Yellow (Schweizer Yellow) (Thrush Yellow) (Orange Yellow)
143.....Cub Yellow
146.....J3 OEM Yellow

ORANGE
142A .....Eagle Yellow (Orange)
182.....Pumpkin Orange
183.....International Orange
180.....Cruiser Orange

RED
189.....Madrid Red
187.....Eagle Red
191.....Pontiac Red (Toreador Red)
190.....Tennessee Red (Federal 11136) (Insignia Red)
195.....Santa Fe Red (Maroon)
196.....Boston Maroon
197.....Stinson Maroon

PURPLE
361.....Eagle Purple

BROWN
205.....Bermuda Tan
203.....Elsinore Brown

BLUE
165.....Lakeland Blue
170.....Bahama Blue
173.....AN Blue (True Blue) (Federal 15102)
318M.....Piper Trainer Blue
177.....Eagle Blue
176.....Insignia Blue (Federal 15044 Blue)

GREY/SILVER
210.....Polar Grey
220M.....Nevada Silver
213A .....Federal 36321 Grey
213.....Ag Cat Grey
219.....Jasper Grey
222M.....Rancho Silver

BLACK
215.....Dakota Black (Eagle Black)

MILITARY CAMOUFLAGE
212.....Oak Green
208.....Federal 14087 (Olive Drab)
208A .....Federal 24064 Green

GREEN
157.....Cuby Sport Trainer (Green)
151.....Everglades Green
156.....Portland Green
160.....Forest Green

GOLD
301M.....Reno Gold

TO ORDER POLY-FIBER COLORS:

Simply specify Poly-Fiber color number from chart above, either PolyTone or AeroThane, and quart or gallon.

IMPORTANT NOTICE: ***Poly-Fiber and Randolph Coatings are now manufactured by Consolidated Coatings Co.and current colors do NOT all match original Randolph colors. If matching an old color is required, please match it to a current color card or send in a sample of old color for custom matching.***

ALL mixed paints are special order and are non-returnable.

BLACK & DECKER THE CLASSIC IRON



With a classic design and a wide range of convenient features, The Classic™ iron brings simplicity and style back to ironing. A SmarTemp™ indicator light ensures you’re ironing at the right temperature, while the 3-way auto shutoff provides added security and peace of mind. Wrinkle-Fighting Power. Aluminum Soleplate. Steam On/Off Button. Ironing Made Easy. 3-Way Auto Shutoff. Anti Drip. Fabric Guide. Button Groove. Pivoting Cord

P/N 09-00980 .....**$39.75**



IRON KIT

Includes large iron and standard small iron, a glass thermometer and silicone heat sink compound.

P/N 09-37420 ..... **$123.95**



SILICONE HEAT SINK COMPOUND

For more accurate thermal transfer during iron calibration. 1 oz. Syringe

P/N 09-37450 ..... **$15.80**



POLY-FIBER MARK II FOR METAL

(NOT FOR USE ON FABRIC) - Use Mark II for Metal is available in the same 50 colors as Poly-Fiber Poly-Tone and Randolph Colored Butyrate Dope. Mark II is used over primed metal or composite parts and is too brittle to be used over fabric. Mark II is a tough, long-lasting top-coat paint. Although Mark II is a two-part catalyzed paint, it is not catalyzed with an isocyanate, thus normal safety equipment (a charcoal filtered spray mask) is sufficient. You do not have to use a supplied air respirator when spraying Mark II. Packaging: Mark II comes in two-part kits: one part is a can of the colored paint; part two is a separate can with an equal volume of Mixing Liquid. Mixing Liquid contains the catalyst and thinner.

	QUART	GALLON
4 Whites:		
Insignia White	**$61.50**	**$192.95**
Juneau White	**$48.35**	**$147.45**
Ivory White	**$66.75**	**$200.50**
Daytona White	**$48.35**	**$147.45**
All other colors	**$66.75**	**$200.50**
Color Card #50		**FREE**

White
105 Insignia White
110 Juneau White
117 Glacier White
120 Daytona White

Cream
132 Sun Valley Ivory
125 Tucson Cream
131 Diana Cream

Yellow
242 Ag Cat Yellow
136 Lemon Yellow
139 Federal Yellow
145 Lockhaven Yellow
240 Champion Yellow
140 Orange Yellow
143 Cub Yellow
146 J3 OEM Yellow

Orange
142A Eagle Yellow Orange
182 Pumpkin Orange
183 International Orange
180 Cruiser Orange

Red
189 Madrid Red
187 Eagle Red
191 Pontiac Red
190 Tennessee Red
195 Santa Fe Red
196 Boston Maroon
197 Stinson Maroon

Purple
361 Eagle Purple

Brown
205 Bermuda Tan
203 Elsinore Brown

Blue
165 Lakeland Blue
170 Bahama Blue
173 AN Blue (True Blue)
318M Piper Trainer Blue
177 Eagle Blue
176 Insignia Blue

Grey/Silver
210 Polar Grey
220M Nevada Silver
213A Federal 36321 Grey
213 Ag Cat Grey
219 Jasper Grey
222M Rancho Silver

Black
215 Dakota Black

Military Camouflage
212 Oak Green
208 Federal 14087
208A Federal 24064 Green

Green
157 Cuby Sport Trainer
151 Everglades Green
156 Portland Green
160 Forest Green

Gold
301M Reno Gold

ALL mixed paints are special order and are non-returnable.

POLY-FIBER MARK II MIXING LIQUID

Mixing liquid is a combination of catalyst and thinner to be used only with Mark II for Metal paint. Included in Mark II kits above, but also available separately. See directions for mixing, thinning, and application above. Shelf life is two years in unopened package.

Quart P/N 09-03695 **$45.15**
Gallon P/N 09-03696 **$149.50**

POLY-FIBER MARK II THINNER

Used to thin Mark II for Metal paint after it has been combined with Mark II Mixing liquid. Included in Mark II kits above, but also available separately. thinning is generally unnecessary when Mark II is sprayed. However, if orange peel results, you may use Mark II Thinner with 5 parts mixed Mark II paint. Shelf life is four years in unopened storage.

Pint P/N 09-03697 **$9.00**
Quart P/N 09-03698 **$14.00**
Gallon P/N 09-03699 **$53.00**

POLY-FIBER REPAIR KIT

Includes:
1 1" Dope Brush
1 Pint Poly-Tak
1 Quart Poly-Spray
1 Quart Poly-Brush
1 Quart Reducer (Specify 65-75 or 8500)
1 Yard Medium Fabric
4 Sheets #400 Sandpaper
1 3" Curved Needle
10 Feet 2" Surface Tape
1 Thread

With #65-75 Reducer P/N 09-06210 **$92.75**
With #8500 Reducer P/N 09-06215 **$93.00**

CECONITE FABRIC REPAIR KIT

Ceconite 101 P/N 09-00299 **$146.95**
Kit Includes:

1	1" Brush	1 quart	286 Nitrate Thinner
1	3"Curved Needle	1 quart	Super Seam Fabric Cement
1	3M Wetordry Sandpaper 413	2 quarts	286 Butyrate Thinner
1 quart	G-6302 Rand Nitrate Dope Grain	1 quart	W-8350 Non-Taut Butyrate
1 quart	Ceconite 101 (3.4) 70"	1 Yard	Stits Hand Sewing Thread
1 quart	Rand O- Fill G6303	5 Yards	2" C102 Straight Tape 2"

Ceconite 102 P/N 09-06225 **$147.95**
Kit Includes:

1	1" Brush	1 quart	Nitrate Thinner
1	3" Curved Needle	1 quart	W-8350 Non-Taut Butyrate
1 quart	Ceconite 102 (2.6oz)	2 quarts	Butyrate Thinner 970
1 sheet	3M Wetordry Sandpaper 413	1 quart	Rand-O-Fill G-6303 QT
1 quart	Super Seam Fabric Cement	6 Yard	C102 Straight Tape 2"
1 quart	G-6302 N/T Nitrate Dope Grain	1	Ceconite Hand Thread 250



FABRIC COVERING TOOL KIT

This kit includes the items most commonly needed to complete your Poly-Fiber covering project.

Kit Includes: 4 - 1" Disposable Brushes, 3 - 2" Disposable Brushes, 4 - 2" opening 6" long Spring Clamps, 1 - CB-9 Pinking Shears, 10 - 1/2" Glue/Acid Brushes, 1 - Black & Decker Classic Iron, 1 Hobbico Fabric iron 110V, 1 - Silicone heat sink compound, 1 - Thermometer, 1 - 12" Straight Needle, 1 - 12" Curved Tip Needle, 1 - 6" Curved Needle, 2 - Gallon Paint Saver Lids, 1 - V-plore 330 series mask only, 1 - X-plore P100 Combo cart pkg. P/N 09-06230 **$208.95**



CYCLONE PAINT SHAKER

Only the Cyclone has "Varishake", adjustable haking power that automatically compensate for can size. A Cyclone will give you superior mixing power to quickly and completely separate and disperse individual metallic and pigment particles so you can match intensity and pitch exactly. Then, at a touch, your Cyclone will give your batch an extra gentle agitation while you are painting, to hold the batch in the fully mixed condition. Cyclone helps eliminate problems with panel to panel uniformity. Features: • Clamps cans quickly, easily, positively. • Thoroughly mixes most products in 60 to 90 seconds. • Breaks up and resuspends well settled solids. • Accepts pint through four-liter cans, including U.S. gallon, Imperial gallons, square gallons, and aerosol cans. (Some 5.1 cans, also 1/4 and 1/2 pts. stacked or with spacers.). • Quiet. • Mounts solidly. • Rugged construction. Engineered and manufactured in the U.S.A.

Cyclone Shaker P/N 09-00902 **$662.00**
Cyclone Pedestal P/N 09-00903 **$134.95**

POLY FIBER COVERING KIT

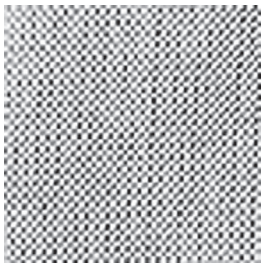


The Poly Fiber Covering Kit from California Power Systems includes all of the materials generally required to recover a wide variety of small aircraft (see list below) except the fabric. When you order this Covering Kit from California Power Systems, you can also order the presewn fabric envelope or fabric yardage you will need to cover the aircraft. California Power Systems is the best choice for your covering materials requirements.

This kit recommended for these aircraft:
- Aeronca Champion
- Aeronca Chief
- Callair
- Citabria
- Funk
- Interstate Cadet
- Piper J3, J4, J5, PA-11, PA-12, PA-14, PA-18, PA-25
- Porterfield
- Rearwin
- Taylorcraft

Note: This kit is for aircraft requiring about 45 yards of fabric. Quantity required vary by aircraft. Verify quantity shown are correct for your aircraft before ordering kit.

P/N 09-02046 **$2,580.00**



CECONITE FABRIC

Ceconite, 100% polyester fabric is approved for use on most certified aircraft. To be sure to check the master eligibility list in the procedure manual.

CECONITE 101 (3.4 oz.) - Much stronger and far more durable than cotton. It has a probable lifetime durability.
70" Width P/N 09-00700 .. **$13.30 /lin. yd**

CECONITE 102 (2.6 oz.) - A fine weave medium weight fabric to be used as a replacement for intermediate weight cotton fabric as described in TSO-C15.
70" Width ..... P/N 09-00900 ..... **$11.95 /lin. yd**

UNCERTIFIED LIGHT - 1.7 oz., lightweight fabric recommended for covering ultralight aircraft. This fabric will be unstamped. It is not approved for certified aircraft except over plywood surfaces.
66" Width ..... P/N 09-00921 ..... **$8.40 /lin. yd**



SUPER SEAM FABRIC CEMENT

New Super Seam Fabric Cement. Not compatible with original nitrate-based Super Seam. Used to attach Ceconite Fabric to structures. High solids nitrate based cement approved in the Ceconite STC.

FLAMMABLE

1 Qt. ..... P/N 09-18100 ..... **$27.25**
1Gal ..... P/N 09-18200 ..... **$99.80**



POLYESTER THREAD & CORD
(FAA APPROVED)

CECONITE - D693 waxed, 600 yds.
P/N 09-41300-1 ..... **$45.25**

CECONITE - Flat Braided, 500 yds.
P/N 09-00822 ..... **$45.25**

HAND SEWING THREADS - 250 yds
P/N 09-41400 ..... **$11.75**

MACHINE SEWING THREAD - 5600 yds ..... P/N 09-41500 .. **$15.25**

INTERIB BRACING TAPE - 36 yd roll, 1/2"w .... P/N 09-41560 .. **$16.70**



CECONITE TAPES

This FAA approved process utilizing Ceconite polyester fabrics and the Randolph line of finishes assures a beautiful, durable, weather-resistant cover job every time. The Ceconite cover process was issued Supplemental Type Certificate No. SA4503NM in 1997, and this number will apply to all aircraft. Note: Only Randolph materials may be used through the topcoat paint to comply with STC requirements. Randolph finishes are required for approval. Ceconite is approved for use on most certified aircraft. To be sure, check the Approved Model List in the latest revision of Procedure Manual 101 for the Ceconite Aircraft Covering Process.

LINEAR STRAIGHT TAPES (CECONITE 102)

Width	*Roll*	*Part No.*	*Price*
1"	50 yds	09-41010	**$21.35**
1.5"	50 yds	09-41015	**$28.65**
2"	50 yds	09-41020	**$34.75**
3"	50 yds	09-41030	**$51.90**
4"	50 yds	09-41040	**$60.85**
6"	50 yds	09-41060	**$72.60**

LINEAR PINKED TAPES (CECONITE 102)

1"	25 yds	09-41111	**$16.05**
1.5"	25 yds	09-41116	**$17.65**
2"	50 yds	09-41120	**$30.20**
2"	25 yds	09-41125	**$23.20**
3"	25 yds	09-41135	**$27.80**
4"	25 yds	09-41145	**$32.40**
6"	25 yds	09-41166	**$45.00**

LINEAR PINKED TAPES (CECONITE LIGHT)

1"	25 yds.	09-41251	**$16.05**
1.5"	25 yds.	09-41255	**$17.65**
2"	25 yds.	09-00298	**$23.20**
2"	50 yds.	09-41252	**$30.20**
3"	25 yds.	09-41253	**$27.80**
4"	25 yds.	09-41254	**$32.40**
6"	25 yds.	09-41256	**$45.00**

BIAS PINKED TAPES

For use on curved edges.

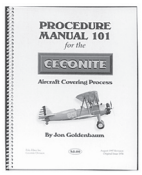
2"	25 yds.	09-41165	**$32.45**
3"	25 yds.	09-41170	**$46.15**
4"	25 yds.	09-41175	**$57.35**



CECONITE REINFORCING TAPES
(FAA APPROVED)

Polyester twill with adhesive back. Applied under riblacer, server, or pop rivet to prevent fabric from ripping. 60 yd. length.

1/4" width ..... P/N 09-41230 ..... **$55.00**
3/8" width ..... P/N 09-41238 ..... **$56.60**
1/2" width ..... P/N 09-41212 ..... **$57.95**



CECONITE PROCEDURE MANUAL

STC manual for applying ceconite materials.
P/N 09-01000 ..... **$10.00**



STAR-TAK FABRIC CEMENT

Star-Tak is a vinyl-based cement that is used to cement aircraft fabric to steel, aluminum, wood, or composite surfaces. It is also used to join fabric together in overlapped cemented seams. It dries to the touch in 15 to 20 minutes in normal temperatures. In two hours, it develops a bond strong enough to allow heat shrinking the fabric.

Quart ..... P/N 09-02583 ..... **$27.25**
Gallon ..... P/N 09-02584 ..... **$99.80**



STAR GLOSS GRAY SEALERS

Gray Sealer is used to seal Ceconite fabric prior to spraying Silver Urethane Fabric Primer. This coat prevents pinholes in the Silver Urethane Fabric Primer. Gray Sealer is also used to apply Ceconite finishing tapes. It is tinted translucent gray to help see it when applied.

Quart ..... P/N 09-02577 ..... **$25.55**
Gallon ..... P/N 09-02578 ..... **$85.00**
5 Gallon ..... P/N 09-02579 ..... **$420.00**



STAR GLOSS SEALER REDUCER

Thinner for Gray Sealer. Mix three parts Gray Sealer to one part Sealer Reducer. Shelf Life: Four years, unopened in protective storage. Not affected by freezing.

Quart ..... P/N 09-02580 ..... **$15.40**
Gallon ..... P/N 09-02581 ..... **$48.25**
5 Gallon ..... P/N 09-02582 ..... **$230.90**



STAR GLOSS SILVER URETHANE FABRIC PRIMER

Silver Urethane Fabric Primer is a polyurethane product that serves two purposes: to build the coating over the fabric to prepare for paint, and to protect the fabric from UV radiation. Silver Primer uses a metallic-like flake additive. This proven system results in a positive metallic light block and reflection to both visible and invisible UV without relying on chemical UV light blockers.

Quart ..... P/N 09-02585 ..... **$28.75**
Gallon ..... P/N 09-02586 ..... **$101.20**



STAR GLOSS SILVER URETHANE FABRIC PRIMER CATALYST

Silver Urethane Fabric Primer Catalyst is the only catalyst that can be used with Silver Urethane Fabric Primer. Note that unlike other catalyst it is mixed at a four to one ratio of primer to catalyst.

1/2 Pint ..... P/N 09-02587 ..... **$34.50**
Quart ..... P/N 09-02588 ..... **$78.20**



STAR GLOSS SILVER URETHANE FABRIC PRIMER REDUCER

A special blend of solvents specifically formulated for use with Ranthane and Star Gloss Silver Urethane Fabric Primer.

Gallon ..... P/N 09-02590 ..... **$31.00**

STAR GLOSS AIRCRAFT COVERING PROCESS PROCEDURE MANUAL



114 pages of step-by-step instruction on how to cover your airplane with the Ceconite/Star Gloss system, helpful photos, great nostalgic cartoons, extra words of wisdom, and a delightful sense of humor. Includes catalog of products, everything from fabrics to top coat paint. P/N 09-02576 ..... **$10.00**

CS



DACRON TAPE / PEEL PLY

A layer of 2.7 oz. Dacron fabric strips or tape laminated into a layup as if it were an extra ply of glass. The peel coat wets out with epoxy like glass cloth and cures along with the rest of the layup. However, the Dacron does not adhere structurally to the glass and when peeled away it leaves a surface ready for glass-to-glass bonding without sanding.
Requirements for Small Aircraft: For Expermental Aircraft.
• 3 Rolls of 1" x 50 Yds. Tape • 2 Rolls of 2" x 50 Yds. Tape • 1 Roll of 3" x 50 Yds. Tape • 1 Roll of 4" x 50 Yds. Tape

Width	Smooth Edge		Pinked	
50 Yd Roll	P/N 09-	Price/ Roll	P/N 09-	Price/ Roll
1"	15000	**$6.50**	15450	**$7.50**
2"	15100	**$13.85**	15500	**$13.75**
3"	15200	**$21.75**	15600	**$19.90**
4"	15300	**$28.75**	15700	**$29.00**
6"	15400	**$44.25**	15800	**$39.85**

Discount Schedule for Dacron Tapes: Less 10% for 12 Rolls (assorted) • Less 15% for 25 Rolls (assorted). Request quote on larger quantities.

CS



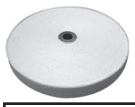
DACRON FABRIC / FULL WIDTH PEEL PLY

Poly/Dacron blend is excellent as peel ply for composite lay-ups, and for covering expermental aircraft.
2.7oz. 64-66" #604 ....P/N 09-00300 ....**$4.75/yd.**
1.8 oz. X 64" #611 .....P/N 09-00100 ....**$3.90/yd.**
2.97 oz. X 62" #605 ...P/N 09-00500 ....**$3.95/yd.**



DACRON BIAS TAPE
FOR HOMEBUILT AIRCRAFT

Bias-cut tapes (weave 45° to edge) are especially useful for trimming compound curves on components such as wing tips and tail surfaces. Bias tape will stretch to conform to the contour without wrinkles, without heat-shrinking edges or cutting and notching to remove excess fabric. Stretching reduces the width about 35% so 3" tape should be used to finish areas normally covered with 2" tape. 2" Bias tape will pull to about 1-3/8" width.
2" x 50 Yd . Roll .....P/N 09-16300 ..... **$46.50**
3" x 50 Yd. Roll .....P/N 09-16400 ..... **$59.50**
NOT FOR USE ON CERTIFIED AIRCRAFT



COTTON REINFORCING TAPES

Tape	Size	Part No.	Price/Roll
DDD-T-86F	1/2" x 36 Yds.	09-17000	**$19.70**



THREADS & CORDS

Only synthetic threads and rib lacing cords should be used with Dacron covering to insure uniform strength. Waxed linen rib cord Conforms to PMA# TQ0075NM and STC# SA1008WE.

Material	Quantity	Part No.	Price
Dacron Machine Sewing Thread	500 Yds.	09-03900	**$15.25**
Dacron Hand Sewing Thread	250 Yds.	09-04000	**$11.75**



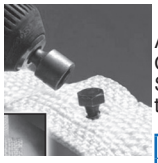
FAB-TAC FABRIC CEMENT

A superior quality cement for strong splice joints. Use to cement tapes, rings and grommets to fabric cover.
1 Pint .....P/N 09-17800.....**$12.90**
1 Qt.....P/N 09-17900.....**$17.75**
1 Gal.....P/N 09-18000.....**$56.75**



CLOTH MASKING TAPE

Has many uses in aircraft maintenance work. Strip over sharp corners under fabric. Strips on parts under doped fabric will prevent fabric from sticking to parts. Pressure-sensitive adhesive backing. Easily applied, easily removed. Leaves no residue. Should not be applied below 32°F.
1" x 60 yds. ..... P/N 09-17100.....**$9.75**



DIAMOND BACK TAPE

Advantages: • Save TIME with easy installation • Save OPERATING COSTS with improved energy efficiency • Save REPAIR COSTS with long lasting quality at high temp • Save ON PRICE with quantity discounts

CHARACTERISTICS	
Fibers	Ceramic
Application	Insulation with bolt holes
Weave Style	Drop Warp
Thickness	.125 in
Bolt Diameter	Up to .75 in
Continuous Service	1,800°F
Maximum Use	2,300°F
Durability	High Strength
Coating	Plain or Vermiculite Avail.

Type	Width	Thickness	Roll Length	Part No.	Price
1/8" Thickness - Plain	2"	.125"	100ft.	05-03510	**$113.80**
1/8" Thickness - Vermiculite Coated	2"	.125"	100ft.	05-03511	**$162.99**



SOLDERING IRON

Use to melt drain holes and inspection rings in polyester fabric. 35 Watt, 900°F tip. Tip is replaceable & long life coated.
P/N 09-37430 ..... **$79.50**



HEAVY-DUTY HEAT GUN

This soft air velocity of this heat gun increases the surface temperature to the required working temperature much faster than conventional heat guns and maintains a higher temperature for faster completion of the application. Features double insulation, two temperature selections of 570°F and 1000°F, and a unique impact resistant heating element. Operates on 120V AC at 11.6 amps. Air volume 14.8 cu. ft. per minute.
Wt. 1-1/2 lbs. .....P/N 09-00354..... **$99.75**



DELUXE HEAT GUN

This handy tool gives you a fast, drum-tight, mirror smooth finish. It's ideal for heat-shrinkable covering films. Get a professional finish with less time and effort. 1-year warranty.
Features: • Includes removeable wide nozzle • 1000-watt heating power • Heavy-duty fan motor • Textured, composite hand-grip • 3-position, hot/cool/off switch • Adjustable air intake baffle • Weight: 15 oz • 5.5' AC power cord with 2 prong plug
P/N 12-00527 .....**$27.50**



POCKET THERMOMETER

This Pocket thermometer can eliminate 80% of your iron-on covering problems. These problems are caused by your iron's temperature varying as much as 60° while in use, which causes bubbles and sags. If you are using an iron other than Black Baron, this thermometer is a must in monitoring iron temperatures.
P/N 09-37500.....**$7.50**



MAULE FABRIC TESTER

A fine quality tool to test fabric covered aircraft for minimum FAA requirements without removing or punching holes in fabric. Also used to test struts for inside rusting as required by FAA on all Piper aircraft with struts.
P/N 09-14900 ..... **$294.00**

PTI SPECIALTY PAINTS

PTI Specialty Paint & Coatings, are featured in space, aerospace and aviation applications throughout the world -- the Space Shuttle and Space Station projects, the Patriot and Stinger missile projects and in refurbishing of landing gear for commercial aircraft. Now, California Power Systems brings PTI products to General and Sport Aviation.

See all PTI Paint Products at www.800-airwolf.com



PTI COMPLETE SPECIALITY PAINT SYSTEM

1. Paint Strippers
2. Primers: Acid Etch and Epoxy
3. Topcoats: A chemical resistant Polyurethane with UV protectors
4. PTI Polykick™ to accelerate drytime
5. Cleaners

Note: Strong professional recommendation – These products have been specifically formulated to work together. Maximum adhesion, durability and performance is achieved when these products are applied as a system. To Purchase Your Specialty Paint System Simply tell us the make and model of your aircraft, and the Federal 595 Color – see chart on our website at: www.800-airwolf.com Need a custom color that is not on the chart? – Ask us, we can help you with that too.

SOLVENTS, REMOVERS, & REDUCERS



PTI-MEK is virgin (not recycled) MEK that may be used to clean and prepare the substrate for painting. PTI-MEK may also be used to clean brushes, paint guns and other painting tools. PTI-Acetone is virgin (not recycled) Acetone that may be used to remove lacquer finishes, for cleanup after painting, and to soften lacquers or acrylics that set up in spray guns or hoses. Acetone is not effective on urethanes and should not be used. Use MEK for cleanup on urethane products. Use only virgin acetone. Recycled acetone can damage virtually anything to which it is applied. PTI-Toluene is virgin (not recycled) toluene that may be used as a reducer for enamels and other coatings in the alkyd family. Do not use with PTI chromate and chromate free primers. Instead, use PT-1022X66 reducer. PT-1045 is a reducer specially formulated to compliment the PTI Air Dry Wash Primer. PT-1022X66 is a reducer specially formulated to compliment the PTI chromate and chromate free primers. PT-1003 Type II is a reducer specially formulated to compliment the PTI Epoxy primer.

Description	Part No.	Price
Alkyd&Lacquer Thinner Qt.	09-00943	**$21.25**
Alkyd&Lacquer Thinner Gal.	09-00942	**$45.75**
Mek Qt.	09-00972	**$18.55**
Mek Gal.	09-00971	**$30.65**
Acetone Qt.	09-00974	**$17.95**

Description	Part No.	Price
Acetone Gal.	09-00973	**$30.95**
Toluene Qt.	09-00976	**$13.50**
Toluene Gal.	09-00975	**$32.65**

EPOXY PRIMER

PTI's Epoxy Primer is a low VOC (volatile organic compounds) epoxy polyamide solvent primer which conforms to the military specification MIL-P-23377 Rev. E. This coating is highly recommended for use on aluminum and all plated or unplated metallic surfaces to insure maximum protection against corrosion. This primer may be used as an interior or exterior primer that insures maximum adhesion of any paint or lacquer finish coats.

NOTE: Before applying, refer to the technical data sheet for this product.
****Must be shaken for 15 min. on a paint shaker.***



Description	Part No.	Price
Yellow QT KIT	09-00934	**$87.80**
Yellow GAL KIT	09-00932	**$228.95**
Green QT KIT	09-00935	**$82.50**
Green GAL KIT	09-00933	**$228.95**
Epoxy Thinner QT	09-00937	**$21.75**
Epoxy Thinner Gal	09-00936	**$45.50**

ACID ETCH PRIMER

PTI's Air Dry Wash Primer requires no sanding and is a polyvinyl butyral zinc chromate formulation that may be used to prime all plain or plated metallic surfaces. Priming surfaces with this primer will ensure maximum adhesion of all bake or air-dry finish coats (including lacquer finish coats). The finely ground emulsions of zinc chromate pigment, resins and phosphoric acid hardeners are virtually non-settling. For the best results follow the instructions on the technical data sheet. This primer exceeds the performance standards specified in Department of Defense specification (DOD) 15328 and Military Specification MIL-8514.



Description	Part No.	Price
Yellow Acid Etch Primer QT.	09-00948	**$31.25**
Yellow Acid Etch Primer Gal.	09-00946	**$72.75**
Yellow Acid Etch Primer 5Gal	09-00944	**$306.95**
Green Acid Etch Primer QT	09-00949	**$30.75**
Green Acid Etch Primer Gal	09-00947	**$72.75**
Green Acid Etch Primer 5Gal	09-00945	**$306.95**
Reducer 1045 QT	09-00951	**$16.50**
Reducer 1045 GAL	09-00950	**$35.75**

ZINC CHROMATE PRIMER

PTI's Zinc Chromate Primer is formulated to exceed the performance standards in the Federal Specification TT-P-1757. This primer promotes maximum adhesion to bare aluminum and steel and is recommended for that purpose. PTI's zinc chromate primer is a formulation proven to perform.



Description	Part No.	Price
Zinc Chromate Yellow Spray 13 oz.	09-00901	**$9.95**
Zinc Chromate Yellow QT	09-00919	**$39.85**
Zinc Chromate Yellow Gal	09-00922	**$86.50**
Zinc Chromate Yellow 5Gal	09-00952	**$388.95**
Zinc Chromate Green Spray 13 oz.	09-00895	**$9.95**
Zinc Chromate Green QT	09-00917	**$39.75**
Zinc Chromate Green Gal	09-00918	**$86.50**
Zinc Chromate Green 5Gal	09-00953	**$388.95**
1022X66 Reducer QT	09-00956	**$15.90**
1022X66 Reducer Gal	09-00954	**$35.75**

ZINC OXIDE PRIMER - CHROMATE FREE

PTI's Zinc Oxide Primer is formulated to exceed the performance standards in the Federal Specification TT-P-1757. Promotes maximum adhesion to bare aluminum and steel. Formulated to provide a high performance primer that is considered a safer, more environmentally friendly, alternative to the zinc chromate primer.



Description	Part No.	Price
Zinc Oxide Yellow Spray 13 oz.	09-01617	**$9.95**
Zinc Oxide Primer Yellow QT	09-00961	**$42.25**
Zinc Oxide Primer Yellow Gal	09-00959	**$90.50**
Zinc Oxide Primer Yellow 5Gal	09-00957	**$392.95**
Zinc Oxide Green Spray 13 oz.	09-00904	**$9.95**
Zinc Oxide Primer Green QT	09-00962	**$41.95**
Zinc Oxide Primer Green Gal	09-00960	**$89.95**
Zinc Oxide Primer Green 5Gal	09-00958	**$388.95**

PTI SANDABLE PRIMER

PT-573 is a two component epoxy based primer. PT-573 is capable of filling small holes and imperfections before topcoating. PT-573 provides a smooth, sandable base coat that improves the adhesion and appearance of the topcoat. Because of PT-573's unique formula, this primer also provides excellent rust and corrosion protection. This sandable primer is compatible with PTI's epoxy and Polyurethane topcoats.



Description	Part No.	Price
PTI 573 Sandable Primer 2 gallon	09-02311	**$154.75**
PTI 573 Sandable Primer 1 gallon	09-02312	**$88.50**
PTI 573 Sandable Primer Quart	09-02313	**$49.90**

ALL mixed paints are special order and are non-returnable.

RANDOLPH AIRCRAFT COATINGS

Randolph Aircraft Products

Randolph coatings are the FAA-approved coatings for the Ceconite STC covering process.



210 NITRATE DOPE, TAUTENING, CLEAR, HI-SOLIDS

Used only on Grade A cotton or Irish Linen. A premium high solids nitrate dope that tightens natural fabric as it dries. Not for use on Ceconite or heat-shrunk synthetic fabrics. Thin 1:1 w/286 Nitrate Thinner.

FLAMMABLE

Quart	P/N 210-QT	**$14.65**
Gallon	P/N 210-1G	**$44.10**
5 Gallons	P/N 210-5G	**$212.35**



W-7868 NITRATE DOPE, TINTED, NON-TAUTENING (BLUE)

Initial coating for Ceconite or heat shrunk polyester fabric. Additional plasticizers slow shrinking after application. Thin 1:1 with 286 Nitrate Thinner.

FLAMMABLE

Quart	P/N W-7868-QT	**$16.05**
Gallon	P/N W-7868-1G	**$47.85**
5 Gallons	P/N W-7868-5G	**$231.50**



E-4964 NITRATE DOPE, CLEAR,NON-TAUTENING

Initial coating for Ceconite or heat shrunk polyester fabric. For use on open cockpit aircraft where tinted dope is not desired. Thin 1:1 w/286 Nitrate Thinner.

FLAMMABLE

Quart	P/N E-4964-QT	**$15.95**
Gallon	P/N E-4964-1G	**$47.60**
5 Gallons	P/N E-4964-5G	**$230.60**



G-6302 RAND-O-PROOF NITRATE DOPE (GREEN)

Special formulation of nitrate dope and additives for the initial coat on Ceconite fabric and for applying tapes. This is the recommended first coat in the Ceconite/ Randolph system. Thin 1:1 with 286 Nitrate Thinner.

FLAMMABLE

Quart	P/N G-6302-QT	**$16.20**
Gallon	P/N G-6302-1G	**$49.90**
5 Gallons	P/N 09-01017	**$233.40**



286 NITRATE THINNER

Used 1:1 to thin nitrate dopes & Rand-OProof.

FLAMMABLE

Quart	P/N 286-QT	**$11.00**
Gallon	P/N 286-1G	**$43.85**
5 Gallons	P/N 286-5G	**$219.95**



9701 BUTYRATE DOPE, TAUTENING, CLEAR

Used only on Grade A Cotton or Irish Linen to tighten the fabric as it dries. Not for use on Ceconite or heat-shrunk synthetic fabrics. Thin 1:1 with 9703 Butyrate Thinner.

FLAMMABLE

Quart	P/N 9701-QT	**$15.60**
Gallon	P/N 9701-1G	**$46.60**
5 Gallons	P/N 9701-5G	**$224.40**



W-8350 BUTYRATE DOPE TINTED, NON-TAUTENING (TAN)

This non-taughtening butyrate dope features an increased level of plasticizer and will not tauten excessively. Takes longer to dry than standard butyrates. Tinted. Used to apply finishing tapes. Additional plasticizers slow shrinking. ***TINTED LIGHT TAN BUT DRIES CLEAR.*** Recommended initial build butyrate coating to follow Rand-O-Proof in the Ceconite/Randolph system. Thin 1:1 with 9703 Butyrate Thinner.

FLAMMABLE

Gallon	P/N 09-00788	**$50.15**
5 Gallons	P/N 09-00789	**$242.50**

55 Gallon Drums - For 55 gallon drum of Randolph product, use basic P/N D55 - Example: 210-D55



J3000 BUTYSOLV REJUVENATOR

Used to soften older dope coatings which exhibit cracking or ring-worming. Restores plasticizers in aged finishes to add flexibility. Only works on aircraft painted with butyrate dope; will not work on polyurethane topcoat finishes.

FLAMMABLE

Quart	P/N 09-14505	**$27.20**
Gallon	P/N 09-14510	**$81.65**
5 Gallons	P/N 09-14515	**$400.15**



G-6303 RAND-O-FILL BUTYRATE (SILVER)

Rand-O-FillG-6303 is a non-tautening butyrate material designed as the aluminum spray coat over Rand-OProof G-6302, over Nitrate Clear Dope or Butyrate clear Dope. Allow to dry. Wet sand to desired smoothness. Wash and allow surface to completely dry before applying following coat. Thin as needed with Butyrate Thinner.

FLAMMABLE

Quart	P/N G-6303-QT	**$18.45**
Gallon	P/N 09-01018	**$55.55**
5 Gallons	P/N 09-01019	**$269.25**



701 ALUMINUM PASTE

FLAMMABLE

A fine mesh paste which is easier to use than powder. Mix 4 oz. by weight of paste to one gallon of clear butyrate dope before thinning.

1 Lb.	P/N 09-14500	**$21.10**

9703 BUTYRATE THINNER

Used 1:1 to thin butyrate dopes & pigmented butyrate colors.

FLAMMABLE

Quart	P/N 9703-QT	**$11.30**
Gallon	P/N 9703-1G	**$42.75**
5 Gallons	P/N 9703-5G	**$210.00**



Y-9910 UNIVERSAL RETARDER

Prevents blush in nitrate and butyrate products. Also used to slow nitrate and butyrate drying in high temperatures.

FLAMMABLE

Quart	P/N Y-9910-QT	**$14.80**
Gallon	P/N 09-01048	**$46.75**
5 Gallons	P/N 09-01049	**$213.65**



A-1690 BUTYRATE DOPE, NON-TAUTENING (CLEAR)



For use as a build coat after E-4964 Non-Tautening Nitrate (Clear) on open cockpit aircraft where tinted dope is not desired. Thin 1:1 with 9703 Butyrate Thinner.

FLAMMABLE

Quart	P/N 09-00817	**$16.70**
Gallon	P/N 09-00818	**$49.90**
5 Gallons	P/N 09-00819	**$241.45**

MATERIAL REQUIREMENTS FOR AVERAGE SIZE AIRPLANE

USING RANDOLPH FINISHES AND CECONITE FABRIC

- 45 yds. 70” Ceconite 102
- 5 gals. Rand-O-Proof
- 10 gals. NT Butyrate
- 3 gal. Universal Finishing Retarder
- 13 rls. Pinked Ceconite Tape
- 2 rls. 1/2” Reinforcing Tape
- 30 Inspection Rings
- 5 gal. Nitrate Thinner
- 10 gal. Rand-O-Fill
- 30 gal. Butyrate Thinner
- 10 gal. (White) Butyrate Dope
- 1 rl. Ceconite Rib Lacing Cord
- 100 Plastic Drain Grommets
- 1 gal. Rand-O-Bond

TOTAL (Estimate).....$ 3,500

RANDOLPH FLOAT LACQUER

This specialty product is used as a spray on the bottom of aluminum floats on amphibious aircraft to protect them from marine growth. Reduce with Randolph 286 Nitrate Thinner.

FLAMMABLE

Qt	P/N 09-00830	**$17.50**
Gal	P/N 09-00831	**$52.75**
5 Gal	P/N 09-00832	**$258.05**



RANDOLPH ACID-PROOF BATTERY BOX BLACK PAINT #345

FLAMMABLE

Battery Box Black Paint is an asphaltic coating used to provide protection from battery acid in battery boxes and compartments. It is generally applied with a brush or roller to any metal area that may be exposed to leaking battery acid. Shelf life: Guaranteed 2 years from date on manufacture in sealed container in protected storage. Coverage: 225 square feet per gallon with one coat. Mixing: Stir well before use.Thinning: Use out of the can. If thinning is necessary, thin five parts paint to one part 286 Nitrate Thinner. Application: Apply with a brush. Three coats will provide the best possible protection to epoxy primed metal surfaces.Qt. ..... P/N 344-QT **$16.85**

ALL mixed paints are special order and are non-returnable.



RANDOLPH COLOR PRODUCTS

RANDOLPH COLORED NON-TAUTENING BUTYRATE DOPE -

The final color coat applied over fabric in the Ceconite/Randolph system. Available in 50 standard colors. Thin one to one with 9703 Butyrate Thinner. One thinned gallon covers approximately 200 sq ft with one coat.

RANTHANE POLYURETHANE FINISH

Ranthane is a low viscosity, very high solids polyurethane material resulting in low film weight providing a lasting high gloss. Will withstand most chemicals, engine oils, and hydraulic fluids. Has superb adhesion and abrasion resistance as well as high temperature resistance. For fabric and primed metal.

Whites: Qt..From **$43.95** Gal. From **$134.05**

All Other Colors: Qt..From **$60.70** Gal. From **$182.25**

RANTHANE HIGH SOLIDS CATALYST -

Pint ..... P/N 09-00328 ..... **$33.50**

Use w/ High Solid Polyurethane

Qt..... P/N 09-00400 ..... **$63.15**

RANTHANE ACCELERATOR - Qt. ..... P/N D-7201-QT..... **$44.85**

RANTHANE REDUCER - Qt..... P/N G-4200-QT **$14.00**

Gal..... P/N G-4200-1G..... **$49.00**

The FAA has approved the use of Ranthane over Poly-Fiber. To order Ranthane colors, please specify Randolph color from chart on right and specify quart or gallon.

NOTE: Randolph paints are now manufactured by Consolidated Coatings and will not exact match old Randolph colors. If you are ordering to match old Randolph colors, please provide a paint sample that can be matched by the factory.

MARK II FOR METAL

(NOT FOR USE ON FABRIC)

A tough, long-lasting, two-part topcoat paint catalyzed with a non-isocyanate catalyst. Supplied air respirator not required when spraying. Available in same 50 colors as Colored Butyrate Dope and Ranthane for use over primed metal or composite parts. Mix 1:1 with Mark II Mixing Liquid.

MARK II MIXING LIQUID - Combination of catalyst and thinner to be used with Mark II for Metal paint.

Qt..... P/N 09-02193..... **$45.15**

Gal ..... P/N 09-02194..... **$149.50**

MARK II THINNER - Used as needed to thin Mark II for Metal after combining with Mark II Mixing Liquid to increase flow out.

Pt ..... P/N 09-02195..... **$9.00**

Qt..... P/N 09-02196..... **$14.00**

Gal ..... P/N 09-02197..... **$53.00**

FAST-DRY ENGINE ENAMELS

Formulated to be heat resistance and maintain good gloss and color retention. For use in the painting of engine crank cases and cylinders, after major overhaul or for general maintenance. Can also be used on engine mounts and supports. Service temperature is 300-350 degrees F. Reduction: Thin to correct spray viscosity with #257 Enamel Thinner(approximately 20% reduction). Application: Spray two coats. Allow to dry to the touch between coats.

Color	Quart		Gallon	
	Part No.	Price	Part No.	Price
303 Black	303-QT	**$22.00**	303-1G	**$57.35**
D-5973 Continental Gold	D-5973-EQ	**$22.00**	D-5973-EG	**$65.95**
G-5436 Lycoming Gray	G-5436-EQ	**$22.00**	---	**---**



RANDOLPH ENAMEL THINNER

Fast drying thinner for use with Randolph Aircraft Enamels and Fast Dry engine Enamels.

Qt. .....P/N 257-QT **$12.00**

Gal. .....P/N 257-1G **$46.00**

PAINT VISCOSITY CUPS



A precision tool to accurately measure paint viscosity when spraying automotive and aircraft finishes. Consists of a nylon cup with a precisely sized small hole in the bottom. As paint flows through the hole, time the rate of flow. Adjust viscosity by adding thinner as required to produce recommended flow for product being used.

P/N 01-25400..... **$13.50**

RANDOLPH COLOR SELECTIONS AND PRICES





COLORS	BUTYRATE For Fabric Only		Mark II For Metal Only	
	Qts.	Gals.	Qts.	Gals.
Reds				
B-3534 Madrid Red	**$22.00**	**$84.70**	**$66.75**	**$200.50**
B-9163 Colorado Red	**$24.20**	**$84.70**	**$66.75**	**$200.50**
M-9522 Tennessee Red	**$24.20**	**$93.15**	**$66.75**	**$200.50**
M-9530 Vermillion Red	**$24.20**	**----**	**$66.75**	**$200.50**
W-3665 Pontiac Red	**$24.20**	**$84.70**	**$66.75**	**$200.50**
J-9555 Cadillac Red	**$24.20**	**$84.70**	**$66.75**	**$200.50**
H-9150 Santa Fe Red	**$24.20**	**$84.70**	**$66.75**	**$200.50**
X-5680 Boston Maroon*	**$30.75**	**$84.70**	**$66.75**	**$239.95**
X-5749 Stinson Maroon	**$24.20**	**$84.70**	**$66.75**	**$200.50**
Standard Colors				
M-9526 Cruiser Orange	**$24.20**	**$84.70**	**$66.75**	**$200.50**
C-2065 Ocala Orange	**$22.00**	**$84.70**	**$66.75**	**$200.50**
E-6427 Aeronca 7AC Yellow	**$25.65**	**$77.00**	**$62.00**	**$194.95**
M-9512 Lemon Yellow	**$24.20**	**$84.70**	**$66.75**	**$200.50**
M-9501 AN Orange Yellow	**$22.00**	**$77.00**	**$66.75**	**$200.50**
F-6285 Cub J-3 Yellow	**$22.00**	**$84.70**	**$66.75**	**$200.50**
M-9521 Lock Haven Yellow	**$22.00**	**$77.00**	**$66.75**	**$200.50**
Y-5783 Dallas Yellow*	**$22.00**	**$84.70**	**$66.75**	**$200.50**
D-9270 Ag Cat Yellow	**$24.20**	**$84.70**	**$66.75**	**$200.50**
N-3353 Federal Yellow	**$22.00**	**$84.70**	**$66.75**	**$200.50**
F-2406 Federal Green	**$22.00**	**$77.00**	**$66.75**	**$200.50**
F-5830 Montego Green*	**$22.00**	**$84.70**	**$66.75**	**$200.50**
Y-6350 Forest Green*	**$27.75**	**$84.70**	**$66.75**	**$200.50**
W-3554 Lakeland Blue	**$22.00**	**$77.00**	**$66.75**	**$200.50**
W-9506 AN True Blue	**$24.20**	**$98.00**	**$66.75**	**$200.50**
H-9170 Bahama Blue	**$22.00**	**$84.70**	**$66.75**	**$200.50**
X-5700 Miami Blue	**$22.00**	**$77.00**	**$66.75**	**$200.50**
M-9502 Insignia Blue	**$22.00**	**$84.70**	**$66.75**	**$200.50**
Z-7245 Sun Valley Ivory	**$26.25**	**$84.70**	**$66.75**	**$200.50**
M-9518 Diana Cream	**$24.20**	**$84.70**	**$66.75**	**$200.50**
X-5260 Tucson Cream*	**$24.75**	**$84.70**	**$66.75**	**$200.50**
Q-1050 New Insignia White	**$23.50**	**$83.75**	**$61.50**	**$192.95**
W-9170 Tropic White	**$17.60**	**$63.80**	**$48.35**	**$147.45**
K-7641 Vestal White	**$17.60**	**$70.20**	**$48.35**	**$147.45**
B-4243 Juneau White	**$23.75**	**$86.85**	**$48.35**	**$147.45**
J-9545 Daytona White	**$17.60**	**$63.80**	**$48.35**	**$147.45**
Q-1916 RandolphWhite	**$19.35**	**$63.80**	**--**	**$147.45**
F-7790 AG Cat Gray	**$22.00**	**$77.00**	**$66.75**	**$200.50**
R-4870 Neutral Gray	**$22.00**	**$84.70**	**$61.75**	**$200.50**
R-8174 Platinum Gray	**$22.00**	**$77.00**	**$66.75**	**$200.50**
Y-6100 Polar Gray	**$22.00**	**$77.00**	**$66.75**	**$200.50**
H-6117 Black	**$22.00**	**$77.00**	**$66.75**	**$200.50**
R-8175 Sandalwood*	**$22.00**	**$77.00**	**$66.75**	**$200.50**
Y-9775 Hickory Brown	**----**	**$77.00**	**$66.75**	**$200.50**
R-4869 Olive Drab* (Glossy)	**$22.00**	**$77.00**	**$66.75**	**$200.50**
E-6428 Aeronca 7AC Orange	**$22.00**	**$104.95**	**$66.75**	**$200.50**
P-8600 Cessna Tiger Orange	**$22.00**	**$84.70**	**$66.75**	**$200.50**
Metallic Colors				
W-8427 Tampa Green*	**$22.00**	**$84.70**	**$66.75**	**$200.50**
W-8430 Newport Blue*	**$22.00**	**$84.70**	**$66.75**	**$200.50**
M-9514 Silver	**$22.00**	**$77.00**	**$66.75**	**$200.50**
B-9916 Reno Gold	**$38.50**	**$84.70**	**$66.75**	**$200.50**

How to Order: Use these dash #s to complete Randolph color part #s: Butyrate: Qts -BQ, Gallons -BG; Example: P-8599-BG

ALL mixed paints are special order and are non-returnable.

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TEMPO AIRCRAFT ENAMEL



Excellent adhesion to aluminum and steel

Tempo's Aircraft Enamel has been especially formulated to adhere to aluminum and steel; providing excellent corrosion resistance. Recommended applications are all interior and exterior aluminum and steel surfaces, including wheels, landing gear and inside door hatches. For propeller blades, we recommend Epoxy Propeller Coating.

Neutral Gray Enamel Primer #750 ..... **$6.95/ea.**

09-00985	Black	**$6.95**
09-00989	Gloss White	**$6.95**
09-00987	Medium Gray	**$6.95**
09-02070	Flat Black	**$6.50**
09-00988	Flat White	**$6.95**

TEMPO ENGINE ENAMEL



Resists heat to 500°F . Tempo's Aircraft Engine enamel withstands the high heat demands of aircraft engines. This modified chain-stop alkyd enamel formula has excellent corrosion and fuel resistance.

All Tempo spray products feature the exclusive adjustable Fanspray valve which offers a professional spray pattern so anyone can "paint like a pro". The extra-width pattern evenly coats about 3 times the area with each pass compared with an ordinary spray valve. Packaged in 11 oz. to 16 oz. cans, depending on product.

WARNING: POSSIBLE LINK BETWEEN CHROMATE PIGMENTS AND LUNG CANCER

Several independent technical studies have suggested that excessive inhalation of zinc chromate dust may cause lung cancer. If conditions are such that this limit may be exceeded, additional protective equipment is required. A respirator that has a NIOSH/MESA approval TC-23C. See catalog for respirators that meet this requirement.

Lyc. Gray	P/N 219	**$6.95**
Olds Cont. Gold	P/N 239	**$6.95**
Gloss Black	P/N 09-00995	**$6.90**
Chevy Orange Engine	P/N 09-02405	**$6.75**

MET-ALL



An aluminum polish which removes and prevents pitting. Makes aluminum shine with mirror-like brilliance. Non-toxic, non-abrasive and non-flammable. A non-silicone product which resists further corrosion. Meets military specifications.

1 Lb. Can	P/N 09-24200	**$10.90**
2 Lb. Can	P/N 09-24300	**$17.75**

BLUE MAGIC METAL POLISH



Blue Magic produces a deep mirror shine. The oxide residue left after polishing is easily wiped off with a rag. A small amount will polish a large area. Airshow aerobatic pilot Chuck Lischer, Jr., whose high performance Swift is shown here, recommends Blue Magic as the best polish available for polished aluminum aircraft.

#500 1 lb. Can ..... P/N 09-24600 ..... **$12.85**

WASH WAX ALL



Wash Wax ALL is a waterless wash and wax that is safe to use on all aircraft surfaces. Leaves a non-stick anti-static UV protective coating on everything you clean. Removes dirt and bugs without scratching, simply spray on and wipe dry. Safely cleans and protects aluminum, composite, and fabric aircraft. Also excellent on aircraft windows and avionics. Meets (or *conforms to*) Boeing aircraft cleaning specification Exterior D6-17487 and interior D6-7127M. Wash Wax ALL is water based, non-toxic, biodegradable, and contains no alcohol or ammonia. Also use our Wash Wax Mop for hard to reach areas.

Pint	P/N 09-02514	**$9.85**
Quart	P/N 09-00493	**$14.75**
Gallon	P/N 09-00494	**$27.75**

PLEXUS AIRCRAFT PLASTIC CLEANER, PROTECTANT & POLISH



Plexus™ was developed for use in aviation, specifically for cleaning and protecting aircraft windshields and painted surfaces. It's quite simply the most effective product you can buy for cleaning, polishing and protecting all clear and colored plastics and painted surfaces. Plexus is easier to use, and leaves a noticeably cleaner, more lustrous finish than conventional polishes. It protects by actually sealing the pores in plastic making it more resistant to debris, oil, bugs or scratches. Because it's anti-static, it repels dust and lint. It's perfect for windshields and the leading edges of the wings, as well as for removing exhaust stains and cleaning wheel wells. Also, Plexus polishes without harmful abrasives. It leaves an invisible, micro-thin layer of wax without smears or smudges. It dries to a crystal clear luster, leaving no oily, sticky or tacky residue. It's the ultimate detailer for your aircraft. So, if you're looking for a better way to save time, money and help protect your valuable investment, it's clearly brilliant. Plexus. Clearly the best. Plexus contains no CFC's, so it's safe for the environment. And because it's an aerosol, there is virtually no waste.

7 Oz. Can	P/N 09-29715	**$17.50ea**
13 Oz. Can	P/N 09-29710	**$19.85ea**

GLI GRIME OFF™ AIRCRAFT EXTERIOR WASH



Grime Off™ Exterior Airplane Wash may be diluted in a bucket and applied with a brush or mitt, or applied via the detergent tanks on the 2-in-1 Hydro Washer. This product does not foam up like car wash detergents, so please don't expect that. It will coat the plane and, with some gentle washing, rid it of exhaust stains and grease. Used by commercial airlines by the drum, you should use if for the same reason they do. It will clean your plane but not harm your paint, seals, plexiglass, or fragile components in and around landing gear.

P/N 09-03512 ..... **$32.95**

GLI GRIME OFF™ AIRCRAFT CLEANER & DEGREASER



Mean, green, and made to clean. When you think of Grime Off™, think stained bellies, hard to reach landing struts, engines, and deceased bugs. Available in a 12 oz. foaming aerosol spray, 16 oz. spray, or wipes-24ct.

12 oz. Spray Foam	P/N 09-03507	**$9.29**
16 oz. Aersol	P/N 09-03508	**$13.50**
24 Pack of Wipes	P/N 09-03509	**$14.59**

EXTREME SIMPLE GREEN AIRCRAFT CLEANER



Unique cleaning & anti-corrosion chemistry delivers superior performance and materials-safety all in one. Cuts through tough, built up grease, oil, dirt, pollution, insect residue & impact soils. Gets its superior cleaning from a unique "triple play" cleaning formula. 2 high performance surfactants and new generation grease lifter/cutter combine to get the soil away from the aircraft surface quickly and keep it away so it can be cleanly rinsed away. Also able to go into oil/water separators and have oil break from solution. Extreme Simple Green's safety upon aircraft materials and precision cleaning surfaces comes from a combination of proven anti-corrosion agents. Time tested coupling agent allows these to work together to battle corrosion & hydrogen embrittlement. This makes it safe to put through pressure washing equipment, rack wash systems, dip tanks & parts washers, without any equipment damage.

32 oz	P/N 09-00809	**$10.95**	Gallon	P/N 09-00810	**$16.50**
5Gal.	P/N 09-01236	**$82.50**	Spray	P/N 09-01241	**$49.75**
55 Gallon Drum	P/N 09-01606	**$539.00**			

SUPERFLITE AIRCRAFT ENGINE ENAMELS



Superflite engine enamels are fast-drying enamels developed specifically for air-cooled aircraft engines used in light duty aviation industries. The Superflite enamels feature superior adhesion, heat resistance, and a gloss finish. Cure Schedule: Dry to touch: 15 minutes, Dry to handle: 60 minutes Dry through: 24 hours To recoat: Before 60 minutes , or after 72 hours Benefits: Topcoat - Air dry or low temperature cure, For use on bare metal or painted surfaces Specifications: Shelf Life: 12 months at recommended storage temperatures, Heat Resistance: Up to 400 degree F.

Lyc. Grey Paint Quart	P/N 09-02558	**$21.85**
Lyc. Grey Paint Spray	P/N 09-02556	**$9.85**
TCM Gold Paint Gallon	P/N 09-02560	**$99.50**
TCM Gold Paint Quart	P/N 09-02557	**$21.50**
TCM Gold Paint Spray	P/N 09-02550	**$9.85**
Gloss Paint Black Quart	P/N 09-02559	**$22.25**

WASH WAX ALL DEGREASER



Wash Wax ALL (Degreaser) is a waterless wash and wax. Removes exhaust soot, Carbon residue, oil, and grease from all aircraft surfaces including belly and landing gear. Simply spray On and wipe dry. Safely cleans and protects aluminum, composite, and fabric aircraft. Meets Boeing aircraft cleaning specification Exterior D6-17487 and interior D6-7127M. Wash Wax ALL (Degreaser) is Water Based, non-toxic, biodegradable, and does not contain Alcohol or Ammonia. Use with our Wash Wax Mop for hard to reach areas.

Pint.....P/N 09-02418.....**$9.95**
Gallon.....P/N 09-00496.....**$29.50**

SOLO FROM FRONT SEAT ONLY

SOLO FROM REAR SEAT ONLY

SOLO SEATING PLACARDS – Silkscreened in red ink on white all weather vinyl. Placards for solo from front or reat seat (specify). Size: 1"x 3".
Front Seat Solo..... P/N 09-43906.....**$2.50**
Rear Seat Solo ..... P/N 09-43907.....**$2.50**

STATIC AIR VENT KEEP CLEAN

STATIC AIR – Black on white vinyl. U-V coated, fuel resistant. Used to mark location of static air ents. Size: 3/4" x 1".
P/N 09-43912 .....**$1.95**

OIL INJECTION CHECK OIL RES. BEFORE FLIGHT 2-Cycle oil ONLY

OIL INJECTION PLACARD – Black on white vinyl. Used on oil injected Two- Stroke engines. U-V and Fuel resistant. Size: 1" x 2-1/3".
P/N 09-43916.....**$1.95**

DRAIN ALL FUEL SUMPS BEFORE FIRST FLIGHT

DRAIN SUMPS – Black on white vinyl. U-V and Fuel resistant. Size: 1" x 2".
P/N 09-00348.....**$4.50**

NO STEP

NO STEP DECAL - No Step, 1"x5" Decal-black letters
P/N 1040.....**$2.25**

NO LIFT

NO LIFT DECAL - No Lift Decal. Color: Black on White. Size: 1/2" x 2-1/2"
P/N 104212.....**$1.35**

STAINLESS STEEL ID TAG

Suitable for all aircraft. Made of .015 acid-etched stainless steel. Size: 3"x 2".
P/N 09-00761..... **$3.35ea**



LIGHT-SPORT

LIGHT-SPORT DECALS - Similar to our EXPERIMENTAL Decals, complies with marking requirements for LSA. Available in: 2"x14-1/4"
Black on Clear .....P/N 09-00762.....**$2.25**
Black on White.....P/N 09-00782.....**$2.25**
White on Clear.....P/N 09-00783.....**$2.25**

NO STEP

Bright red on white vinyl. Letters are 1" high. Decal size: 1-3/8" x 4-3/8".
P/N 09-33500..... **$1.25ea**

PASSENGER WARNING DECALS

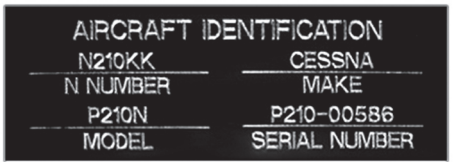


E-LSA- Red & White
P/N 09-01966 .....**$1.95**

S-SLA - Red & White
P/N 09-01968 .....**$1.95**



AIRCRAFT IDENTIFICATION DATA PLATES



EXPERIMENTAL ONLY - Aircraft ID plate factory built made of aluminum. Not FAA Approved. Engraving included. When ordering please provide: Make, Model, S/N, N# for factory built aircraft only.
P/N 09-40000..... **$13.95**

FUEL PLACARDS



09-42801 ..... **$12.95 pr.**



Yellow on Black. Size: 1-1/4"x5"
P/N 09-01141 ..... **$3.65/pair**

PLACARDS

Color for placards below are white on black.

SPINS PROHIBITED
5/8"x 3-1/4" .P/N 09-42842
1"x 5" ...P/N 09-42844 .**$2.50 ea**

FASTEN SEAT BELT
1"x 5" .....P/N 09-42850
5/8"x 3-1/4" ...P/N 09-42848 .. **$2.50ea**

NO LIFT
1"x 3" 09-42858. **$1.95**

NO STEP
1"x 3" 09-42852. **$1.95**

NO PUSH
1"x 3" 09-42854.**$1.95**

EXPERIMENTAL
1"x 5" ..... 09-42856 ..... **$2.50ea**

NO SMOKING
1"x 4" ..... 09-42846..... **$2.50ea**

LIFT HERE
1"x 3" .....09-42860 ..... **$1.95ea**

All the placards & decals on this page are produced on long lasting UV coated pressure sensitive adhesive vinyl. They are computer cut using no clear background so they won't yellow. These are all top quality decals which will enhance your aircrafts looks for years to come. Do not settle for "cheap" imitations.

CS

TURN COORDINATORS - TURN & BANKS - ASI

FALCON TURN COORDINATOR (ELECTRIC)



3-1/8" cut out, 3-3/4" long. Small and lightweight, excellent for homebuilt aircraft. For 14V or 28V systems. Features power out warning flag. Unlighted. Includes electrical plug connector and cable clamp.

Unlit 0° Panel .....P/N 10-22510 .....**$387.00**

WINTER SLIP INDICATORS



The basic flight instrument for co-ordinated turns. Available in two styles: Rectangular model fits easily in cramped panel space. Square model matches a 2-1/4" instrument hole, fits on either side of the panel. Both feature finely crafted metal cases and precision ball and tube assemblies.

Square ..... P/N 10-03812.....**$89.95**
Rectangle ..... P/N 10-03857.....**$87.50**

BANK INDICATORS (BALL TYPE)



In turning, instantly register slightest departure from the correct banking angle. Bank scale has white markings on black background. New manufacture. Available in 2 models:

10°-10° Scale, 2.25" between mounting holes.P/N 10-00600 ... **$109.75**
20° - 20° Scale, 5" between mounting holes... P/N 10-00700 ..... **$62.75**

UMA AIRSPEED INDICATORS (NON-TSO'D)



These quality UMA, non-TSO'd airspeed indicators are available in MPH.

Note: An inverter is required for the Internal Lighting Option (P/N 10-02083 UMA 14V LIGHT INVERTER)

Description	Dial	Part No.	Price
3-1/8"	20-80 mph	10-04905	**$168.95**
3-1/8"	20-100 mph	10-04910	**$168.95**
3-1/8"	20-120 mph	10-04915	**$168.95**
3-1/8"	20-140 mph	10-04920	**$181.95**
3-1/8"	20-160 mph	10-04925	**$181.95**

FALCON 3-1/8" SINGLE RANGE AIRSPEEDS



Falcon Gauge Airspeed Indicators have been one of the most chose flight instruments by kit plane builders and pilots. There are many great advantages to using these gauges: excellent slow speed characteristics; very progressive increments; a variety of ranges, light weight; short length, and affordable price. All Falcon Gauge Airspeed Indicators are housed in an aluminum case and consist of all metal parts. Available ranges: mph, knots, km/hr; single range reading or dual range readings. Non-Tso'd.

Model No.	Length	Range	Part No.	Price
ASI080M-3	2.2"/56.5mm	0-80 MPH	10-02905	**$158.00**
ASI100M-3	2.2"/56.5mm	0-100 MPH	10-02910	**$158.00**
ASI120M-3	2.2"/56.5mm	0-120 MPH	10-02915	**$158.00**
ASI140M-3	3.5"/97.3mm	0-140 MPH	10-02916	**$158.00**
ASI150M-3	2.2"/56.5mm	0-150 MPH	10-02225	**$158.00**
ASI160M-3	3.5"/97.3mm	0-160 MPH	10-02917	**$158.00**
ASI080N-3	3.5"/97.3mm	0-80 Knots	10-02896	**$164.00**
ASI100N-3	2.2"/56.5mm	0-100 Knots	10-02897	**$158.00**
ASI120N-3	2.2"/56.5mm	0-120 Knots	10-02898	**$158.00**
ASI140N-3	3.5"/97.3mm	0-140 Knots	10-02899	**$167.95**
ASI160N-3	3.5"/97.3mm	0-160 Knots	10-02900	**$158.00**

VECTOR WRIST-TOP COMPUTER



The Vector combines an altimeter, vertical speed indicator, barometer, compass and a precision timepiece in one compact wristwatch-sized case. The instrument allows altitude measurement in feet or meters, up to a max. 27,000 ft., accurate to plus or minus 10 ft. It also provides instantaneous vertical ascent & descent rates in either feet/second or meters/second. The backlit display is easy to see in all lighting conditions. The barometer displays current barometric pressure and trends for accuracy, and deviation adjustment to correct for differences between true and magnetic north. Reliable & accurate, this new instrument provides time, day and date, as well as three daily alarms, a stopwatch and countdown timer. The unit is also waterproof to 100 ft.P/N 10-19325 ..... **$199.00**

FALCON 2-1/4" INCLINOMETER



This in-dash mounted inclinometer is lightweight and fits a standard 2-1/4" instrument hole. Used on Kitfox aircraft & ideal for virtually any homebuilt. P/N 10-00705.....**$38.95**

FALCON 2-1/4" MINIATURE AIRSPEEDS



Falcon Gauge Miniature Airspeed Indicators are designed for ultralights. They offer ultralight pilots an affordable alternative to other higher priced indicators found in the market today without compromising the pilot's needs for a quality gauge that provides accuracy, light weight, compactness and safety. Their excellent slow speed performance provides an extra measure of safety by assuring accurate speed readings when flying low or critical stall speeds. Weight: approx. 2.8 oz. or 80g Length: 2-9/16" or 41mm

Model No.	Range	Part No.	Price
ASI050M-2	0-80 MPH	10-02605	**$138.00**
ASI100M-2	0-100 MPH	10-02610	**$138.00**
ASI120M-2	0-120 MPH	10-02615	**$186.00**
ASI140M-2	0-140 MPH	10-02620	**$138.00**
ASI120K-2	0-120 KPH	10-04198	**$138.00**
ASI140K-2	0-140 KPH	10-02226	**$138.00**
ASI120N-2	0-120 KNOTS	10-04069	**$138.00**

WINTER AIRSPEED INDICATORS

3-1/8" airspeeds are supplied and marked in MPH and knots scales. Indicators feature 360 degrees sweep for easy reading at a glance. All Winter Airspeeds come complete with mounting screws.



P/N 10-03897

Size	Range	Style	Part No.	Price
2-1/4	0-75 MPH	Pitot	10-02920	**$291.95**
2-1/4	0-100 MPH	Pitot	10-02925	**$259.95**
2-1/4	0-120 MPH	Pitot	10-02930	**$306.95**
2-1/4	0-160 MPH	Pitot	10-02935	**$364.00**

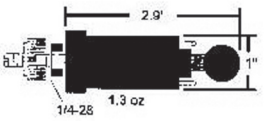
HALL WINDMETER



Designed for hang gliders but can be mounted on low speed aircraft as an airspeed indicator. Easy to read. Mounting bracket clamps to 7/8 or 1 1/8" dia. tube. Short bracket is 3' long, Long bracket 15" long.

Wind Meter (0-55 mph).....P/N 10-04100 .....**$18.85**
Wind Meter (0-80 mph).....P/N 10-04105 .....**$18.85**
Short Bracket .....P/N 10-04200 .....**$5.75**
Long Bracket.....P/N 10-04300 .....**$6.75**

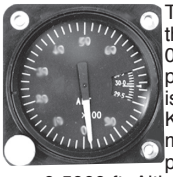
WESTACH AIRSPEED KIT K2M6RH



Air speed 60 MPH kit, 2" round, with 303GW sender with 510A-1 propeller & 323B mount & 205-SS-SS 5' cable and 692B-323 bullet case with 323B mount, 2GM60R

P/N 10-01295 .....**$178.75**

WINTER MINIATURE ALTIMETERS



The mini altimeter is a remarkable instrument. Through the use of an accurate single pointer design, the 0-5,000 and 0-10,000 altimeters are able to squeeze precision and reliability into a 2-1/4" instrument which is less than 2" deep. All altimeters are designed with Kollsman windows, glass faces, precision jewelled movements and a rugged combination metal and plastic case. Static porting is standard.

0-5000 ft. Altimeter, Inches..... P/N 10-24100 ..... **$373.95**
0-5000 ft. Altimeter, Millibar..... P/N 10-24105 ..... **$449.50**
0-10000 ft. Altimeter, Inches..... P/N 10-24115 ..... **$365.95**
0-10000 ft. Altimeter, Millibar..... P/N 10-24125 ..... **$398.00**



WINTER ALTIMETER 3-1/8”

Through the use of an accurate single pointer design, the 0-10,000 altimeter is able to squeeze precision and reliability into a 3-1/8” instrument which is less than 2,2” deep. Designed with a Kollsman window, glass face, precision jewelled movements and a rugged combination metal and plastic case. Static porting is standard. Weight: 230g

P/N 10-03831 ..... **$259.00**

TASKEM 2000 DIGITAL ALTIMETER



The Series 2000 Digital Altimeter is a precision instrument providing altitude readings from -100 to +30700 feet in 10’ steps. A standard 3-1/8 instrument powered from 11–35V DC & uses a highly visible backlighted liquid crystal display. Displayed data includes Altitude, Baro Ref & Vertical Speed. A programmable altitude alert function combines both audio and visual (LED) outputs. An oxygen alert cautions when over 12500 feet. All data is output in computer compatible RS-232 format. Model 2000 devices display pressure in Hg while Model 2001 units are in mBar. 2 options can be added to the basic (-1) model; OAT (-2) includes temperature sender and also computes and displays Density Altitude, Mode C (-4) is a standard TSO-C88a compatible encoder. Both options are included in the (-3) versions. Wt., 8 oz. Depth behind back of instrument panel, 3-7/8”. 2-yr factory warranty.

Model	P/N	Price	Model	P/N	Price
2000-1	10-24040	**$399.50**	2001-1	10-24041	**$405.95**
2000-2	10-24050	**$498.95**	2001-2	10-24051	**$499.95**
2000-3	10-24060	**$597.00**	2001-3	10-24061	**$597.00**
2000-4	10-24070	**$498.95**	2001-4	10-24071	**$498.95**

TASKEM 5000 DIGITAL ALTIMETER



Unlike mechanical altimeters, the Taskem 5000 is insensitive to the high vibration of 2-stroke engines frequently used on ultralight aircraft. This has literally shaken many mechanical altimeters. The 5000 is all solid state and can withstand severe shock and vibration without damage. It has a full 4.5 digit liquid crystal (LCD) display with large, 1/2” high characters. Because the LCD uses direct drive, it is easily readable from most viewing angles and does not disappear when viewed from an angle or does not washout in bright sunlight. Includes a backlight for night or dusk viewing. The altitude range extends from below sea level to well above the need for supplementary oxygen. The limits are -1000 to 19,990 ft. (-305 to 6,093 meters). Increments are in 10 ft./1m steps. The instrument is powered from DC in the range of 7–30V and is protected for accidental polarity reversal. A 9V battery is a common power source and a battery holder for this is provided on the back, external to the case. An alkaline battery will provide over 40 hours of operation, without the backlight illuminated. The backlight is not powered in the ON power switch position to conserve battery life. .....

Feet.....P/N 10-24010 ..... **$264.00**
Meters....P/N 10-24020 ..... **$287.95**

UMA 2-1/4” ALTIMETERS



This UMA standard altimeter utilizes a single pointer and is designed to meet the needs of the low-cost Non-IFR user. This altimeter utilizes a single pointer and adjustable barometric scale, viewed through a Kollsman Window. Can be ordered in inches of mercury or milibar. Scale is available in feet or meters. **$308.95 ea**

Part No.	Range	Dial Markings	Scale
10-05131	0-10,000 Ft.	B &W	w/ IN HG
10-05132	0-20,000 Ft.	B &W	w/ IN HG
10-05133	0-10,000 Ft.	B &W	w/ Milibar
10-05134	0-20,000 Ft.	B &W	w/ Milibar

UMA 3-1/8” ALTIMETERS



This UMA standard altimeter utilizes a single pointer and is designed to meet the needs of the low-cost Non-IFR user. This altimeter utilizes a single pointer and adjustable barometric scale, viewed through a Kollsman Window. Can be ordered in inches of mercury or milibar. Available in feet or meters. Aluminum case. **$161.95 ea**

Part No.	Range	Dial Markings	Scale
10-22965	0-20,000 Ft.	B &W	w/ IN HG
10-02436	0-10,000 Ft.	B &W	w/ IN HG
10-02369	0-5,500 Ft.	B &W	w/ IN HG
10-05120	0-5,500 Ft.	B &W	w/ Milibar
10-05125	0-10,000 Ft.	B &W	w/ Milibar
10-05126	0-20,000 Ft.	B &W	w/ Milibar
10-05127	0-3,000 M	B &W	w/ Milibar

FALCON 3-1/8” AND 2-1/4” SENSITIVE ALTIMETERS

1. Three Pointer Altimeter with Barometric Window and Low Altitude Warning Stripes is a modern type. The easy to read striped sector will show while flying below 16,000 ft. 2. Three Pointer Altimeter with a Barometric Window enables the pilot to adjust the altimeter to the baro-



metric conditions existing at the point of landing. 3. Two Pointer Altimeter without Barometric Window. This type of altimeter is designed to meet the demands of some pilots who either live or fly the area’s barometric pressure beyond 28.1 to 31 inches of mercury, or 950 to 1050 millibars, or some pilots prefer to set the altimeter to”0” altitude before taking off without regard to the barometric pressure. By installing this altimeter, the pilot can fly anywhere in the world without having to care about the barometric pressure changes. Non-TSO’d.

Size	Model No.	Range	Part No.	Price
Altimeter-Sensitive, without Barometric Window, 2 Pointers				
3-1/8”	ALT100F-3	10,000 feet	10-02259	**$378.95**
Altimeter-Sensitive, with Barometric Window, and Warning Stripes , 3 Pointers				
3-1/8”	ALT20INF-3	20,000 feet, inches	10-04400	**$337.00**
3-1/8”	ALT20MBF-3	20,000 feet, millibars	10-04500	**$549.00**
3-1/8”	ALT20IMF-3	20,000 Feet, inches & millibars	10-02260	**$357.00**
3-1/8”	ALT6MEMB-3	6,000 meter, millibars (no stripes)	10-02257	**$349.00**
2-1/4”	ALT20MBF-2	20,000 feet, millibars	10-02968	**$1,675.00**

FALCON 3-1/8” NON-SENSITIVE ALTIMETERS



Falcon Gauge light weight altimeters feature a non-sensitive altimeter on a 3-1/8”, single pointer, and a barometric window. A setting knob allows the pilot to set the barometric reading to the correct field elevation or barometric pressure setting. They are weight conservative, economical, yet very precision and accurate instruments that provide excellent altitude measuring capabilities; designed for ultra-light airplanes. 3-1/8” is non-sensitive. Standard Types are either feet reading with barometric window inches of mercury or millibars reading; or meters reading with barometric window millibars reading. Length: 2 3/8” Weight: 10.7 oz.

Part No.	Range	Price
10-05100	6,000 ft./12,000 ft Inches	**$158.50**
10-03422	10,000 ft./20,000 ft. Inches	**$128.75**
10-02251	6,000 ft., Millibars	**$148.95**
10-02252	10,000 ft., Millibars	**$148.00**

FALCON 2-1/4” SENSITIVE ALTIMETERS



2-1/4” is sensitive. Single Pointer, and a barometric window. A setting knob allows the pilot to set the barometric reading to the correct field elevation or barometric pressure setting. They are weight conservative, economical, yet very precision and accurate instruments. It is suitable where space and weight is a consideration. This type is available in Feet or Meter reading, the baro-metric window can be either in inches of mercury or in millibars reading. Length: 2 3/8” Weight: 3.6 oz.

Model No.	Part No.	Range	Price
ALTN6INF-2	10-02205	5,500 ft. Inches	**$178.00**
ALTN10INF-2	10-04510	10,000 ft. Inches	**$178.00**
ALTN6MBF-2	10-04070	6,000 ft., Millibars	**$202.95**
ALTN10MBF-2	10-04071	10,000 ft., Millibars	**$178.00**
ALTN3ME-2	10-02207	3,000 Meters, Millibars	**$178.00**
ALTN6ME-2	10-02254	6,000 Meters, Millibars	**$198.00**

MICROTIM™ BAROMETRIC ALTIMETER



Features: * Extreme sensitivity. Registers changes in altitude of 2 feet or less. * Calibrated from -2000 feet MSL (2000 feet BELOW sealevel) to +20000 feet MSL (20000 feet ABOVE sealevel). * Low Power. Single AAA battery lasts for months. Battery monitor gives several DAYS of low-battery notice. * One foot resolution, barometric-pressure and field-elevation adustable. * AGL(relative), MSL(sealevel) or BOTH alternately every 2 seconds. * Selectable units: feet/inHg or meter/kPa or feet/mbar(hPa). * Excellent ultralight altimeter or backup unit. Small (3”x1.5”x3/4”) with large easy-to-read numbers (3/8” high numbers). Very durable (resin encapsulated internals), resists shock, vibration, and moisture. * EASY TO USE right out of the box. The 3 primary key functions allow you to o 1) Raise the barometric pressure setting o 2) Lower the barometric pressure setting o 3) Zero the ground-level altitude (AGL) * Then three additional functions are accessed by holding down one key for 5 seconds which allows you to o 4) Change units o 5) Change the display mode (AGL, MSL, or BOTH) o 6) Reset MicroTim to factory defaults (AGL only, feet, 29.92 inHg). ...and that’s all there is to it! P/N 10-01726 ..... **$213.95**

IN

VARIOMETERS - COMPASSES - EGT GAUGES

AIRSPORT ALTITUDE ALERT IFR/VFD NON-TSO'D



Perfect model for pilots that fly at less than 18,000 ft. Pilots love our new extremely bright 32 character Vacuum Fluorescent Display. This IFR/VFD displays altitude from 0 to 99,900 ft and your Target Altitude is selectable to 17,900 ft. Barometric Pressure is adjustable from 27.90 to 31.21 inches Hg. Pressure Altitude, Density Altitude, MDA and many more features.

P/N 11-11147 ..... **$675.00**

WINTER VARIOMETERS



These extremely sensitive Winter instruments provide instantaneous indication of changes in vertical speed. Mechanical operation, with vario flask included. 2 1/4" and 3 1/8" sizes, 1000 fpm, and 1500 fpm ranges

Description	Part No.	Price
2-1/4" 1000 FPM	10-03813	**$596.00**
2-1/4" 1500 FPM	10-03819	**$619.00**
3-1/8" 1000 FPM	10-03830	**$619.00**
3-1/8" 1500FPM	10-03839	**$445.00**

FALCON VERTICAL SPEED INDICATORS



Falcon Gauge Vertical Speed Indicators (Rate of Climb), have been installed in thousands of planes. Available in climb ranges from 2,000 feet per minute to 3,000 feet per minute, and 10 meters per second. This precision aircraft instrument provides immediate climb and descent information with an easy to read dial and is extremely reliable and durable. Over several decades, they have been servicing and satisfying pilots and kit plane builders worldwide.

The 2-1/4" altimeter is perfect for the ultra-light models and where space and weight are a factor of consideration.

Part No.	Size	Range	Length	Weight	Price
10-05205	3 1/8"	2,000 ft/min	4.25"/105mm	12.7 oz	**$144.95**
10-02246	3 1/8"	10 meter/second	4.25"/105mm	12.7 oz	**$157.75**

UNHEATED PITOT TUBES



STRAIGHT TYPE – Flange-mounted through leading edge of spar. Aluminum tube 24" long, 1/4" dia. May be cut to shorten.

P/N 15133 ..... **$19.85**



L-SHAPED TYPE – Flange mounted L-shaped model for under-the-wing mounting. 1/4" dia. aluminum tube.

P/N 15135 ..... **$28.75**



L-SHAPED PITOT-STATIC TUBE – Same design with static tube added. For pitot tube cover order #15220 or 10-02100 (flip up).

P/N 15144 ..... **$34.85**

STRAIGHT TYPE PITOT-STATIC TUBE – Clamp-mounted for leading edge of wing. 14-1/2" long. May be shortened, formed or shaped to best angle of attack. 1/4' dia. aluminum tubes. All installation hardware furnished.



P/N 10-01800 ..... **$26.75**

RITE ANGLE BASIC SYSTEM AOA



The RiteAngle Basic, is a high quality AOA system for aircraft without flaps. This is the most accurate low cost AOA system available to customers today. **Note: The Basic system is for aircraft without flaps only.** The RiteAngle™ Basic uses electronics not available during earlier designs of RiteAngle™ systems. Although operationally similar to prior RiteAngle products, the RiteAngle Basic is a totally new, more efficient, economical design. It is a modern up to date system, that accurately determines your aircraft's angle of attack. This series uses our proven, easy-to-understand, five LED display. Green indicates Safe, Amber indicates Caution, and Red indicates Danger. The "On Speed" AOA, 1.3 Vso will be correct, regardless of bank angle, density altitude, or any of the other variables where the airspeed might be inaccurate

P/N 11-10388 ..... **$345.00**

AIRPATH COMPASSES



Factory-new Airpath compasses as used in almost all production aircraft. 2.25" size.

Model	Mounting	Lighting	P/N	Price
C2300	Panel	None	10-01340	**$134.75**
C2300-L4	Panel	12V Red	10-01341	**$149.50**

FALCON AIRCRAFT COMPASSES



These compasses are very similar to the Airpath C2300 & C2400 style compasses above but are priced more economically. New manufacture. Not certified.

Size	Model No.	Description	Part No.	Price
		Northern Hemisphere		
2-1/4"	MCPN-2	Panel Mount	10-02067	**$87.95**
2-1/4"	MCPN-2L	Panel Mount, Lighted	10-02069	**$78.95**

FALCON NON-TSO'D VERTICAL CARD COMPASSES



It is easy to read presentation and see the complete 360 degree dial in proper relation to your aircraft heading. 14V, lighting. 2-1/4"

Model	Description	Part No.	Price
MCVC-2L-A	Improved for install on metal aircraft, 12-14V light	10-04173	**$193.00**
MCVC-2L-A-M	Improved for install on metal aircraft, 12-14V light with bracket	10-04174	**$198.00**
30-V-0001	Vertical Card Compass Universal Mounting Bracket	10-04175	**$24.85**

PRECISION VERTICAL CARD COMPASS



The Precision Vertical Card Compass is a totally new concept for today's aircraft. It is a dry compass, designed to replace the float/liquid type compass; no more leaking fluid or backward azimuth readings. It uses eddy current damping and as such has no overshoot. It consists of a 2"vertical rotating dial which is compared with a fixed miniature airplane (lubber line) to present the magnetic heading of the aircraft at all times. Heading information is more natural because the heading is read at the 12 o'clock position and off the nose of the miniature aircraft. The compass card rotates and presents all quadrants in their true relation to line of flight. Requires no power (except for lighting) to operate. Fully TSO'd. Installed in many current production aircraft and helicopters. Size: 2-7/8"H x 2-3/8"W x 2-1/8"D. Wt. 0.6 lb. After installation, compass must be compensated using standard compensation procedures. Also used in sailplanes. ***Bracket / mount is required for installation and is not included with unit.***

14V .....P/N 10-00421 ..... **$288.95**
28V .....P/N 10-00423 ..... **$288.95**
Precision Aviation Gauge Mount .....P/N 10-07500 ..... **$25.75**
Universal Overhead Bracket Kit .....P/N 10-07600 ..... **$25.75**

ROCHESTER OIL TEMPERATURE GAUGES



Rochester oil temperature gauges have matte-white dial with black bezel. Mount in 2-1/16" dia. hole. New manufacture. Furnished with one 5/8-18UNF X 5/8-18UNF adapter nut. Available in the following temperature ranges and capillary lengths.

P/N 10-11600 ..... 100-250°F .... 60" Cap **$83.75**
P/N 10-11700 ..... 100-250°F .... 72" Cap **$91.50**
P/N 10-11800 ..... 00-250°F ..... 144" Cap **$89.95**
10-11900 ..... 100-250°F .... 48" Cap **$91.50**
Adapter Nuts Only: 44-0024 5/8-18UNF x 5/8-18UNF..... **$11.95**

2" VDO WATER TEMP GAUGE



2" VDO Water Temp Gauge Ranges from 100F to 250F. Fits 2-1/16" or 2-5/8" cutout. Requires 12 volts D/C to function.

P/N 15-04766..... **$24.50**

UMA 2-1/4" SINGLE EGT GAUGES

These highly reliable and lightweight gauges are self-contained, requiring no external power source. Specify probe size and type. Standard markings are black and white.



P/N 10-22275

2-1/4" EGT Gauge
700-1700°F- 90° Sweep .....P/N 10-22275.... **$131.75**
700-1700°F- 270° Sweep ...P/N 10-02427.... **$131.95**
Type K EGT Probes
1-5/8" - 2-1/2" Clamp .....P/N 10-04791..... **$73.75**
1-2" Clamp .....P/N 10-00966..... **$73.75**
8mm, Bayonet-Rotax .....P/N 10-00967..... **$73.75**
Optional internal lighting for all UMA 2-1/4", 3-1/8" instruments (except altimeter). .....P/N 11-07239..... **$49.95**



P/N 10-02060

ELECTRONIC UMA 2-1/4" FUEL PRESSURE GAUGE

This reliable and rugged instrument is designed using a moving coil type movement for aircraft use. The electronic pressure gauge connects to pressure transducer which mounts directly to aircraft engine. Made in USA. Order transducer separately.

0-30 PSI.....P/N 10-22210 ..... **$131.95**
0-80 PSI (pictured above) .....P/N 10-02060 ..... **$131.95**
UMA Pressure Sender 1EU100G for 0-80 PSI
(for P/N 10-02060).....P/N 10-01060 ..... **$112.95**



ELECTRONIC UMA 2-1/4" OIL PRESSURE GAUGE

This reliable and rugged instrument is designed using a moving coil type movement for aircraft use. The electronic pressure gauge connects to pressure transducer which mounts directly to aircraft engine. Made in USA. Order transducer separately.

0-80 PSI .....P/N 10-22245 ..... **$132.95**



2-1/4 inch UMA Electronic Oil Pressure Gauge Case: Valox 420 Plastic Weight: 4.7 oz.

UMA 2-1/4" ELECTRONIC OIL PRESSURE 270°GAUGE

Electronic Oil Pressure Gauges connect to a pressure transducer and connects to the gauge with wires. Standard dial markings are black and white.

2-1/4", 0-60 PSI, TSO'd....P/N 10-02415...**$181.95**
2-1/4", 0-80 PSI, TSO'd....P/N 10-02416...**$181.95**
2-1/4", 0-100 PSI, TSO'd..P/N 10-02417...**$188.95**
2-1/4", 0-100 PSI .....P/N 10-02424...**$131.95**
2-1/4", 150 PSI .....P/N 10-02761...**$131.95**

SENDER NOT INCLUDED



2-1/4 inch UMA Electronic Fuel Pressure Gauge Case: Valox 420 Plastic Weight: 4.7 oz.

UMA ELECTRONIC FUEL PRESSURE 270°GAUGE

Electronic Fuel Pressure Gauges connect to a pressure transducer and connects to the gauge with wires. Standard dial markings are black and white.

2-1/4", 0-7 PSI, TSO'd..... P/N 10-02412...**$188.95**
2-1/4", 0-15 PSI, TSO'd..... P/N 10-02413...**$188.95**
2-1/4", 0-60 PSI, TSO'd..... P/N 10-02414...**$188.95**
2-1/4", 0-30 PSI ..... P/N 10-02422...**$131.95**
2-1/4", 0-60 PSI ..... P/N 10-02423...**$131.95**

SENDER NOT INCLUDED



2-1/4 inch UMA Electronic Oil Temperature Gauge Case: Valox 420 Plastic Weight: 4.8 oz.

UMA 2-1/4" ELECTRONIC OIL TEMPERATURE 270° GAUGE TSO'D

These rugged aircore gauges work with either thermocouple or thermister probes. Standard markings are black and white.

100-300° F, TSO'd ..... P/N 10-02443 ..... **$188.95**

SENDER NOT INCLUDED

TINY TACH TACHOMETER/HOUR METERS



RPM reading adjustable from 1 spark per 2 revolutions to 8 sparks per revolution. One TINY-TACH™ now works for most gas engines. RPM display from 1 to 19,000. RPM update time 1/2 second. Hour meter records total actual running time on your engine. Job timer can be reset to record run time for record keeping. Coax cable transmits signal without EMF interference. 1 Antenna cable winds around your spark plug wire to give you the RPM reading – clean and simple to attach. Signal strength can be controlled by the antenna wire. Standard cable length is 6 feet. This unit is potted to prevent damage from moisture and vibration. Lithium battery life 5+ years, not replaceable. One year warranty.

TT2A Standard Model .....P/N 10-04182 ..... **$48.50**
For Diesel Engines - 6mm transducer.....P/N 10-04016 ..... **$95.00**
For Diesel Engines - 1/4 inch transducer ..P/N 10-04017 ..... **$95.00**



P/N 10-02057

UMA ELECTRONIC 2-1/4" CHT 270° GAUGE

These gauges are available for either thermocouple or thermistor probes. Standard markings are black and white.

2-1/4", 100-300 °F - compatable with VDO.....P/N 10-02426.... **$131.95**
2-1/4", 100-600 °F - 90° sweep for use with thermocouple powered aircraft.....P/N 10-02429.... **$118.95**
2-1/4", 100-600 °F - 270° sweep for use with internal powered aircrat P/N 10-02057.... **$131.95**

Type J CHT Probes
10mm Spark Plug Ring .....P/N 10-00960..... **$61.25**
12mm Spark Plug Ring .....P/N 10-00961..... **$62.85**
14mm Spark Plug Ring .....P/N 10-00962..... **$62.75**
18mm Spark Plug Ring .....P/N 10-00963..... **$61.75**
3/8"-24 Bayonet w/snap .....P/N 10-00795..... **$88.50**

HOBBS HOUR METERS



P/N 15000 P/N 15001 P/N 15006 P/N 15007

The Quartz + series of hour meters provide performance and reliability. Features include a highly reliable drive mechanism and odometer gear train combined with the accuracy of quartz crystal timing. Accurate to +/- 0.02% from -40° to 185°F. Total digital quartz readout is 9999.9 hours. Easy-to-read white numerals on black face dials. Sealed against dirt and moisture. Meets requirements of spec. MIL-L-3971B. Power: 12 – 32 VDC. Models 85094, 85001 and 85011 read "Total Hours". Model 85012 reads "Flight Hours".

Hobbs Hour Meter 85094 +.....P/N 15000 ..... **$26.95**



PRESSURE SWITCH FOR HOBBS HOUR METERS Normally open. Closes at 4 PSI. Single circuit with 2 insulated terminals. Switch has silver contacts enclosed in weatherproof case. 1/8" male pipe thread connection.
P/N 10-00813.....**$31.85**
Water Compatible Pressure Switch for Rotax engines.
P/N 10-00326.....**$23.75**



TEE CONNECTORS - For pressure switches with 1/8" male pipe threads. For 1/4" O.D oil pressure lines.
P/N 10-13300.....**$34.50**



For pressure switches with 1/8" male pipe threads. For 1/4" O.D oil pressure lines. .....P/N 10-04846 ..... **$9.85**

DATCON HOUR METERS



871
3-Hole Flange Mounting 2.54" Bolt Circle 1.45" Dia. Holes



873
Mounts in Standard 2-1/4" Instr. Hole



876
Bracket Mount in 2-1/32" - 2-1/8" Panel Hole

Standard equipment in most production aircraft. Operate on any DC voltage from 4-40V. Recommended for use on aircraft because they start or stop instantly when power is applied or removed. Furnished with mounting hardware. If meter is connected improperly it will not operate but meter will not be damaged. The running indicator indexes every 6 seconds.

Model 871 .....12/24V..... P/N 56456-3 .....**$68.50**
Model 873 .....12/24V..... P/N 56457-3 .....**$68.90**
Model 876 ..... 12V ..... P/N 56458-4 .....**$71.85**

ENM QUARTZ HOUR METERS



These T41 series are ideal for applications requiring a low power, reliable, and economical hour meter. This compact tamper resistant device is sealed against the environment to provide years of reliable service. The solid state electronic circuit is a low power design that ensures accurate time keeping over a range of voltages. The high impact plastic case is sealed against the environment. This model is also polarity insensitive.

ENM Hourmeter DC Power ..... P/N ENMDC.....**$48.70**
ENM Hourmeter AC Power ..... P/N ENMAC.....**$69.75**

IN

FALCON VOLTMETERS AND AMMETERS



Falcon Gauge Voltmeters and ammeters are 6-16V and are available in 2-1/4" and 2" Round.

Size	Model No.	Description	Part No.	Price
2 1/4"	VM16-2Q	Voltmeter, 6-16V	10-02271	**$48.25**
2 1/4" round	VM16-2R	Voltmeter, 6-16V	10-02272	**$43.75**
2-1/4"	VM30-2Q	Voltmeter, 0-30V	10-04040	**$73.25**
2 1/4"	A30-001	Ammeter, +/-30A	10-03410	**$45.75**
2 1/4" round	A30-001R	Ammeter, +/-30A	10-03411	**$40.75**
2 1/4"	AV60-001	Ammeter, +/-60A	10-04041	**$72.50**
2 1/4" round	AV60-001R	Ammeter, +/-60A	10-03415	**$121.95**
2 1/4"	AV30-002	Amp/Voltmeter +/-30A, 6-16V	10-03412	**$96.75**
2 1/4" round	AV30-001R	Amp/Voltmeter +/-30A, 6-16V	10-03413	**$107.95**
2-1/4"	AV3016-002R	Amp/Voltmeter +/-30A, 30V	10-04042	**$111.95**
2-1/4"	AV3030-002	Amp/Voltmeter +/-30A, 30V	10-04043	**$96.25**
30A	SHT-030	Shunt for Amp/Voltmeter, 50mV/30A	10-03416	**$30.75**
60A	SHT-060	Shunt for Amp/Voltmeter, 50mV/60A	10-03417	**$30.25**

IN

INSTRUMENT MOUNTING PODS



An economical, high-quality, easy-to-install solution to your instrument mounting problems. Made of vacuum-molded white and black ABS plastic with attractive black matte ABS faces. The white pod may be easily spray-painted with acrylic enamel to match your aircraft. Two-piece mounting brackets fit snugly around 1" tubing, secured with screws provided. Available for 2, 3, 4 or 5 instruments with the face precut and mounting holes drilled for either 2-1/4" or 2" instruments. Blank face plates also available. May be used horizontal or vertically. When you order, specify either 2-1/4"or 2" instruments holes or blank face plate. Instruments not included.

P/N	Instr 2-1/4" Hole	Color	Price	P/N	Instr. 2" Hole	Color	Price
10-01513	2	White	**$39.75**	10-01538	2	Black	**$39.50**
10-01517	3	White	**$49.95**	10-01539	3	Black	**$45.85**
10-01521	4	White	**$48.00**	10-01540	4	Black	**$49.00**
10-01525	5	White	**$55.00**	10-01541	5	Black	**$61.25**
10-01529	2	Black	**$39.75**		Blank		
10-01530	3	Black	**$49.00**	10-01542	2	White	**$39.75**
10-01531	4	Black	**$49.00**	10-01543	3	White	**$53.75**
10-01533	5	Black	**$61.25**	10-01544	4	White	**$36.50**
	2" Hole			10-01545	5	White	**$55.00**
10-01534	2	White	**$39.75**	10-01546	2	Black	**$39.75**
10-01535	3	White	**$55.00**	10-01547	3	Black	**$49.00**
10-01536	4	White	**$49.00**	10-01548	4	Black	**$49.00**
10-01537	5	White	**$45.25**	10-01549	5	Black	**$59.95**

YOKE MOUNT FLIGHT CLOCK



Battery-operated quartz aircraft clock reads out 12 or 24 hour formats in bright digital display, and has stopwatch & alarm features. Includes yoke attachment for mounting directly in front of the pilot, and the yoke clip holds charts, approach plates, etc. Uses one watch battery (included). 1yr warranty. A great clock & approach timer.

Flight Clock (for Piper) .....P/N 13-31200 ..... **$19.75**
Flight Clock (for Cessna & all others)
P/N 13-31210 ..... **$18.95**

AVIATOR'S 5-IN-1 FLIGHT TIMER



5 timers in one package! A combination of 12/24 hour digital chronometer, plus stopwatch, plus 3 countdown timers is about as close to timed maneuver perfection as a pilot can get. Large LCD digital readouts and large push-buttons make reading and operating easy. Memory stores each waypoint, tank change or approach count-down preset. When time is up, timer element flashes and counts up. The Flight Timer Amplifier is very compact and includes a speaker volume control & external output jack for audio annunciation.

5-in-1 w/ piezo alarm (No LED).....P/N 13-01833 ..... **$24.85**
5-in-1 w/ red LED .....P/N 13-00095 ..... **$47.75**
5-in-1 w/ red LED & audio alarm.....P/N 13-00391 ..... **$69.85**
Flight Timer Amplifier .....P/N 13-01941 ..... **$86.25**

ASA FLIGHT TIMER



Ergonomically designed and engineered for reliability, ease and convenience, the ASA Flight Timer should be considered essential equipment for all aviatiors. Features: Large LCD backlit display, multi-function clock and three simultaneous timer options. Exclusive digital notepad for squawk codes or frequencies, stores up to 12 approach times, audible and visual alarms.

P/N 13-02357 **$39.75**

NELSON FLIGHT CLOCK



• Stopwatch / Alarm • Quartz clock • Digital • Replaceable battery • Yoke clip holds Sectionals, Approach plates, etc. • 2 yoke sizes, Piper & Cessna • 12 or 24 hour time

Cessna .....P/N 13-31210 ..... **$18.95**
Piper .....P/N 13-31200 ..... **$19.75**

MODEL 100 STOPWATCH



The Bodytronics Model 100 stopwatch strikes a great balance between price and performance. You will not find a better quality stopwatch at this price! .....P/N 13-02954 ..... **$9.90**

WESTBEND ELECTRONIC TIMER



The jumbo LCD display on this electronic timer displays time in hours, minutes and seconds. Includes clock feature, electronic alarm, clip, stand, magnet and hanging hole for versatile use. AAA Battery included.

P/N 17-00240 ..... **$12.50**

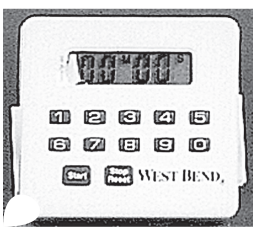
DUAL CHANNEL TIMER



The Dual Channel Timer times 2 activities at once. One channel times hours, minutes, and seconds. Second channel times minutes and seconds. Dual LCD readout shows both times. Memory recalls previous time settings Includes clip, stand, magnet and hanging hole for ease of use 4½"L x 1½"W x 2.4"H. AAA battery included.

P/N 17-00241 ..... **$14.25**

ELECTRONIC STOPWATCH/TIMER



This easy-to-use stopwatch counts up to 60 minutes, then recycles automatically. As a timer, it counts down from 100 minutes in minutes and seconds. Features loud tone when timing period is complete, a large LCD digital display, and soft-touch buttons which are easy to set. Stands or hangs for convenience. 1.5V battery included. By Westbend.

P/N 13-31380.....**$19.95**



WESTBEND ELECTRONIC TRIPLE TIMER/CLOCK

Features of this electronic timer include a continuous running clock that displays hours, minutes, seconds, and AM/PM mode, three timing channels that count to and from 100 hours, and three distinctive alarms.
Additional Features: Memory recalls previous time setting. Times three activities at once. Alarm beeps for one minute and counts up to show elapsed time. Easy-to-read large LCD display. Clip, stand, magnet and hanging hole for versatile use.
Specifications: One AAA battery included. 2.5" x 3" x 1".

P/N 17-00239 ..... **$19.95**

UMA 2-1/4" ELECTRONIC TACHOMETERS

These tachs have high resolution and easy to read displays. The analog model has a 250° sweep which provides great resolution in both the 3500 & 7000 ranges. The digital model has a bright LED display. Separate power source required. All tachs require power from a 14 or 28V system. Installations are simple with instructions included.



7000 ANALOG TACH - Current: 37 milliamps; Size: 2.25" round X 2.75" deep

Rotax 19-519-206.....P/N 10-01854 ..... **$135.95**
Rotax 912.....P/N 10-01853 ..... **$135.95**
Rotax 912/914 Lit.....P/N 10-02053 ..... **$140.95**

UMA ELECTRONIC TACHOMETERS



These electronic tachometers use a 250° sweep meter movement to withstand high levels of vibration and register flight time accurately. The hour meter counts flight hours at RPM settings of 1800 & higher. Power: 12-28VDC. 2-year warranty.

Range	Description	Part no.	Price
0-7000 RPM	3-1/8" For Rotax 912 Engine B & W Markings, built-in hourmeter	10-00119	$233.95
	3-1/8" For Rotax 912 Engine Color Markings	10-04223	$256.95
	2-1/4" For Rotax 912 Engine Color Markings	10-01852	$161.95

**** P/N 10-00120, 10-00121, 10-24870, & 10-24885 tachs eliminate the problems associated with mechanical tach cables, and the sending unit is a direct replacement for the tach cable. All models are analog style tachs with hour meters and can read RPM for either clockwise or counter-clockwise revolutions. Sender included. **Slick Mags Only***

WESTACH INSTRUMENTS FOR ULTRALIGHTS







Single CHT ... 10-00419 .... **$61.75** Single EGT ..... 10-01268 ... **$57.75**
Thermocouple for CHT (14MM) .....P/N 10-01227 ..... **$28.50**
Probe for EGT .....P/N 10-01225 ..... **$42.75**

SINGLE TACH *(Tachometer requires no sender.)*..... **$119.75**

P/N	RPM	Powered By	P/N	RPM	Powered By
2CT5-2	0-5000	Mag	2CT5A-2/6	0-5000	CDI
2CT8-2	0-8000	Mag	2CT8A-2/6	0-8000	CDI

DUAL TACH/CHT (All CHT's are 0-600° F) **$155.75**

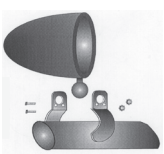
P/N	RPM	Powered By	P/N	RPM	Powered By
2DC9-5-2	0-5000	Mag	2DC9-5A-2/6	0-5000	CDI
2DC9-8-2	0-8000	Mag	2DC9-8A-2/6	0-8000	CDI



WESTACH 2DC8 DUAL CHT

Cylinder Head Temp. Range: 100-700°F. Use 48" Type J thermocouples. Input: 9.81 mv @ 400F, Weight: 2.7 oz.

P/N 10-01791 ..... **$109.95**



BULLET SHELL MOUNTING CASE

FOR 2" ROUND WESTACH GAUGES

Molded plastic housing clamps to ultralite tubing or motorcycle handle bar.Swivels 360° at any angle. Furnished with chrome plated installation hardware. P/N 10-01290.....**$16.80**



WESTACH TACHOMETERS

CLamps to ultralite tubing or motorcycle handle bar. Swivels 360° at any angle. Furnished with chrome plated installation hardware. SINGLE TACH (Tachometer requires no sender.)

Powered By	Application	RPM	Head Type	Part No.	Price
Mag	2/4 cyl. dist/mag & 1/2 VW	0-5000	Round	10-02926	$109.85
Mag		0-8000	Round	10-02928	$114.75
CDI	2 or 6 imp alt (Rotax, 2Si, Hirth, Arctic at)	0-5000	Round	10-02923	$109.80
CDI		0-8000	Round	10-01302	$119.75
CDI	Jabiru 5 imp alt.	0-3500	Round	10-00480	$107.75
CDI	Jabiru 6 imp alt.	0-3500	Round	10-00481	$108.75
Mag	2/4 cyl. dist/mag & 1/2 VW	0-3500	Square	10-01275	$121.95
Mag		0-5000	Square	10-01294	$118.95
Mag	3/6 cyl. dist/mag except GEO	0-3500	Square	2AT33-2	$118.75
CDI	2 or 6 imp alt (Rotax, 2Si, Hirth, Arctic at)	0-8000	Square	2AT8A-2/6	$113.95
CDI	Jabiru 5 imp alt.	0-3500	Square	10-00478	$108.95
CDI	Jabiru 6 imp alt.	0-3500	Square	10-00479	$117.75

WESTACH VOLTMETER



2" round.

Range	Pat No.	Price	Range	Pat No.	Price
18-28 VOLT	10-04184	$68.75	0-200 VDC	10-04193	$54.90
15-50 VDC	10-04185	$62.75	0-100 VDC	10-04194	$54.75



WESTACH AMMETER 2C6-22 (ROUND)

Westach Ammeter, amp -30-0-30 adc, 2" round, 50 mv f/s. Note: Gauge does not include shunt. Range: -60-0-30 adc. Size: 2" round. Shunt: Model 237-30

Ammeter 2C6-22 .....P/N 10-04108 ..... **$55.75**
Shunt #237-30 .....P/N 10-01306 ..... **$42.50**



WESTACH AMMETER 2C6-15 (ROUND)

Westach Ammeter, amp -60-0-60 adc, 2"round, 50 mv f/s. Note: Gauge does not include shunt. Range: -60-0-60 adc. Size: 2" Round. Shunt (Not Included): Model 237-60

Ammeter 2C6-15 .....P/N 10-04104 ..... **$54.75**
Shunt #237-60.....P/N 10-01298 ..... **$41.50**



WESTACH AMMETER 2C6-11

Westach Ammeter, amp 0-60 adc, 2"round, 50 mv f/s. Note: Gauge does not include shunt. Range: 0-60 adc. Size: 2" Round. Shunt (Not Included): Model 237-60

Ammeter 2C6-11 .....P/N 10-04102 ..... **$54.75**
Shunt #237-60 .....P/N 10-01298 ..... **$41.50**



WESTACH TACHOMETERS

FOR DUAL IGNITION

2" Round.....P/N 10-01302 ..... **$119.75**
3" Round.....P/N 3CT8A-2/6 ..... **$126.99**
2" Square.....P/N 2AT8A-2/6 ..... **$113.95**
3" Square.....P/N 3AT8A-2/6 ..... **$133.99**



WESTACH DUAL EGT CHT INSTRUMENTS

Dual instrument - perfect for the home builder. Order senders at bottom of page. 700-1700°F EGT, 100-700°F CHT.

P/N 10-01239..... **$117.95**
P/N 10-00703..... **$109.85**



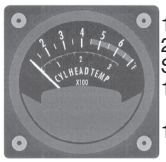
WESTACH DUAL EGT CHT GAUGE WITH SENDERS

Dual instrument - perfect for the home builder. Senders included. 700-1700°F EGT, 100-700°F CHT.

P/N 15-08221..... **$181.95**

IN

CYLINDER HEAD TEMPERATURE



100-700°F ..... P/N 2A1 ..... **$68.75**
25°–375°C ..... P/N 2A1-2 ..... **$69.75**
SENDERS: CHT Senders have 4 ft. leads.
14mm gasket type (VW, Rotax)
P/N 712-4W **$28.50**
18mm gasket type (Cont,Lyc.)
P/N 712-5W **$28.75**
Bayonet type 3/8" x 24 thread
P/N 712-7D **$58.75**
Bayonet type 1/8" NPT thread ..... P/N 712-7DJ **$56.50**
(All Rotax) ..... P/N 712-912K **$58.75**

EXHAUST GAS TEMPERATURE



700-1700°F/350-950°C ..... P/N 2A2 ..... **$65.85**
100-1900°F/100-1000C ..... P/N 2A2-1 ..... **$66.75**
400-900°C ..... P/N 2A2-2 ..... **$66.75**
4000-1600°F/200-850°C .... P/N 2A2-7 ..... **$66.75**
SENDERS - Clamp type senders with 3/16" diameter probe. EGT Senders have 4 ft leads.

Long tip for VW (1/12" OD tailpipe) ..... P/N 712-24DWK . **$42.85**

IN

FUEL LEVEL GAUGES (SQUARE)



2-1/4 Non-TSO'd fuel quantity indicators available for single or dual tanks. Require 0-5Vcapacitance senders (not incl.)

Instrument (Single) ..... P/N 2A7V **$65.50**
Sender (6"-12"Depth) ..... P/N 10-00797 . **$129.75**
AP-24-D120-5V Sender (12"- 24" Depth) ..... P/N 10-03875 . **$126.95**
395-5-5 6" Capacitance, non-bend sender ..... P/N 10-04344 . **$168.90**

FUEL LEVEL GAUGES (ROUND)



2C7V, 2" Round ..... P/N 10-04119 ... **$55.75**
2C7-4, 5-78 OHM, Uses Float Sender
P/N 10-04124 ... **$58.75**
2C7-2, 0-30 OHM, Uses Float Sender
P/N 10-04122 ... **$58.75**

2C7, 240-30 OHM, Uses Float Sender ..... P/N WS2C7 ..... **$59.75**
2C7-3, 0-10 OHM, Propane, Uses Float Sender .. P/N 10-04123 ... **$58.75**
2CHT7V-5, Fuel Sweep Meter ..... P/N 10-04120 ... **$69.95**

MICROFLIGHT DUAL TACH/EGT



2" Round Gauge Tachometer - Universal for single or dual ignition. EGT range: 700-1700°F EGT probe (clamp type)
Sender not included P/N 10-01628 ..... **$85.50**

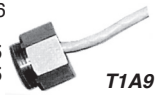
MITCHELL D1-112-5240 ROTAX 912 TACHOMETER



Mitchell 2-1/4 Inch Mechanical Recording. FAA-TSO Approved. D1-112-5240 Special-Rotax 912
P/N 10-02744 ..... **$239.95**

UMA SENDING UNITS FOR TACHOMETERS

Unit 1A3-4 Includes: Sending Unit, and .156 dia. tang adapter
. P/N 10-01706 ..... **$110.95**
T1A9 Magnetic pickup for Slick or Bendix Magnetos (6 ft. cable lengths)
Slick .....P/N 10-02432 ..... **$88.75**
Bendix.....P/N 10-02433 ..... **$88.75**



T1A9

BELITE AIR SPEED INDICATORS



Air Speed Indicator is calibrated for slow flight and designed to provide much more precise measurement of "low and slow" airspeeds than nonprecision steam gauges.Provides airspeed information with a visual LED display. Uses a solid state pitot pressure sensor device, which converts into a visual representation of speed.

2.25" Bezel

28-82 MPH With 1.75" Square Bezel ..... P/N 10-04376 .... **$129.95**
28-82 MPH With 2.25" Round Bezel ..... P/N 10-04378 .... **$129.95**
35-135 KIAS With 2.25" Round Bezel ..... P/N 10-04622 .... **$128.95**
Straight Pitot Tube, black powdercoat..... P/N 10-04382 ..... **$9.95**
Bent Pitot Tube, black powdercoat..... P/N 10-04383 ..... **$14.95**

BELITE ABOVE GROUND LEVEL ALTIMETERS



Above Ground Altimeter measures from field elevation of the airport (rather than mean sea level). Its calibrated in 100-foot increments from 0 to 1200 feet. The new air computer allows it to automatically zero for reset.
With 1.75" Square Bezel ..... P/N 10-04360 ... **$199.99**
With 2.25" Round Bezel ..... P/N 10-04361 ... **$199.99**
1.75" Bezel 3"x2"x1" with 9V battery and power switch - Portable
P/N 10-04363 ... **$119.95**

BELITE VERTICAL SPEED INDICATORS



Vertical Speed Indicator displays rates of up to 600 FPM, depending on model. No buttons to push, yet provides vertical speed information using a dimmable LED display that can be adjusted for viewing in bright daylight or reduced lighting conditions. Available in dual function instrument with Air Speed Indicator and Above Ground Altimeter.
With 1.75" Square Bezel ..... P/N 10-04350 ... **$129.95**
3"x2"x1" portable With 2.25" Round Bezel..... P/N 10-04351 ... **$129.95**
3"x2"x1" with 9V battery and power switch - Portable
P/N 10-04352 ... **$148.50**

BELITE INCLINOMETERS



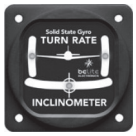
Provides immediate slip and skid information, simulating and improving upon the classic ball inclinometer. In enclosure with 9V battery and power switch.
With 1.75" Square Bezel..... P/N 10-04366.... **$64.95**
With 2.25" Round Bezel..... P/N 10-04368.... **$64.95**
2.25" Bezel 3"x2"x1" with 9V battery and power switch - portable
P/N 10-04369.... **$84.95**

BELITE TURN RATE INDICATORS



State-of-the-art, low cost, true solid state gyro based turn indicator. Calibrated to exactly match existing turn rate coordinators, (at 3 degrees per second for a 2-minute turn), it is cleverly configured so that the LEDs show when this rate is not being met by the pilot. More precise than traditional mechanical gyro instrument.
3"x2"x1" portable
With 1.75" Square Bezel..... P/N 10-04385 .... **$119.95**
With 2.25" Round Bezel..... P/N 10-04386 .... **$112.95**
3"x2"x1" with 9V battery and power switch - portable
P/N 10-04388 .... **$139.95**

BELITE TURN COORDINATOR



The Belite Turn Coordinator shows a digital gyro based Turn Rate Indication and solid state Bubble Inclinometer simultaneously, producing a standard turn coordinator display. The turn rate indicator includes new technology which automatically calibrates itself every time it is turned on, so it does not have to be re-centered. In addition, power consumption has been reduced.
2.25" Bezel. P/N 10-04795 .... **$187.95**

BELITE FUEL GAUGES



Pilots dream of having a fuel gauge that actually works. Here's one that does! Uses LEDs to provide a range of 0% to 100% in calibrated steps.
Single With 1.75" Square Bezel..P/N 10-04390 ..... **$74.50**
Single With 2.25" Round Bezel ...P/N 10-04392 ..... **$74.95**
Dual With 1.75" Square Bezel.....P/N 10-04738 ..... **$94.50**
1.75" Bezel Dual With 2.25" Round Bezel.....P/N 10-04739 ..... **$99.95**

MITCHELL 2-1/4" ELECTRIC GAUGES

Mitchell Aircraft Instruments is a high quality, economical line of gauges which is ideal for the homebuilt aircraft market. These electric instruments are lighted, allow easy installation, and feature a 2 year factory warranty. Order gauges and senders separately as shown. 12V operation unless other wise noted. Gauges fit 2-1/4 panel hole. For 24 volt operation, order P/N PE-111-4074 Resistors ($3.50 each) for each instrument.



OIL TEMPERATURE

100-250° F Gauge ..... P/N 10-25000 ..**$53.50**
100-250° F Sender (Rotax) ..... P/N 10-25005 ..**$19.95**
120-300° F Sender (Rotax) ..... P/N 10-25015 ..**$19.95**

Rotax Senders are 1/8-18 NPT, Lycoming Senders are 5/8-18 VNF.



OIL PRESSURE

0-80 PSI Gauge ..... P/N 10-25030 ...**$49.50**



FUEL PRESSURE

0-30 PSI Gauge ..... P/N 10-25060 ...**$59.95**



EXHAUST GAS TEMPERATURE

0-1600°F EGT Gauge ..... P/N 10-02746 ....**$106.95**
EGT Clamp probe for above EGT Gauge only.
P/N 10-02177 .....**$39.95**
KIT - Includes Sender, Weld-on adapter and 6 Ft. Lead with/ connector. 0-1600 EGT kit
P/N 10-25090 ....**$146.75**



CYLINDER HEAD TEMPERATURE

100-600° F Gauge ..... P/N 10-25070 ...**$66.75**
120-300F Gauge ..... P/N 10-02717 ...**$59.75**
18MM Sender (Cont, Lyc) ..... P/N 10-25075 ...**$25.50**
14MM Sender (VW, Rotax) .... P/N 10-25080 ...**$13.95**
10 Ft. CHT Lead w/connector
P/N 10-25185 .....**$9.50**



LIGHTED QUARTZ ELECTRIC CLOCK

Features black dial with matte white numbers and hands. Length: Mounts in standard 2-1/4" instrument hole. Power: 12v Note: Requires adapter #PE-211-2000 to function in 24 volts. FAA approved.
P/N 10-01214.....**$89.95**
28V Adapter Kit
P/N 10-02827.....**$12.75**



AMMETER

60-0-60 Ammeter
P/N 10-25115 ..... **$47.95**
P/N 10-01212 (30-0-30) **$47.95**



FUEL LEVEL

P/N 10-25130(10-180 OHM) .**$53.50**
P/N 10-02719(0-90 OHM) **$53.50**
P/N 10-02721(0-30 OHM) **$73.50**
P/N 10-02722(240-33 OHM) .**$53.50**
Sender .....P/N 10-25135 .....**$53.50**



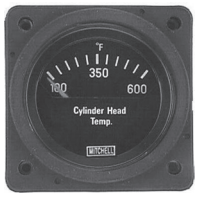
VOLTMETER

P/N 10-25105 (8-16V) **$46.75**
P/N 10-02747 (12-31V) **$53.50**
No Sender required.



OUTSIDE AIR TEMPERATURE

2-1/4" -10°F to +120°F
P/N 10-02715 ..... **$122.95**



CYLINDER HEAD TEMP GAUGE

For Rotax 120-300°
P/N 10-02717 ..... **$59.75**
Sender: Probe Supplied w/ Rotax Engine.



OUTSIDE AIR TEMPERATURE

2-1/4" Electric -10°F to +120°F
P/N 10-03137 ..... **$149.75**
Sender..... P/N 10-02170 . **$18.75**

WIRING KIT GAUGE CONNECTOR



Fits all 2-1/4" Mitchell Gauges
P/N 10-02724 **$6.00**

IN

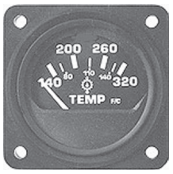
MICRO-1000 ENGINE GAUGES

Senders and probes are not included umless specifically noted. See lower half of the page for senders, probes, and other accessories. 2" gauges are round. 2 1/4" gauges are square.



OIL PRESSURE ELECTRIC

MICRO-1000 oil pressure electric includes 1/8 NPT SDR.
2 1/4" OP031 ..... P/N 10-01574 ..... **$74.65**
2" OP030 ..... P/N 10-01572 ..... **$58.75**



OIL TEMPERATURE ELECTRIC

Includes 1/8 NPT Sender
2 1/4" OT031 ..... P/N 10-01588 ..... **$59.85**
2" OT030 ..... P/N 10-01586 ..... **$48.85**



HOUR METER

AC or DC Powered
2 1/4" HO031..... P/N 10-01507 ..... **$49.25**
2" HO030..... P/N 10-01506 ..... **$37.50**



DC VOLTMETER

2 1/4" VM031..... P/N 10-01641 ..... **$46.50**
2" VM030..... P/N 10-01639 ..... **$34.75**



WATER TEMPERATURE

Includes 1/8 NPT Sender. All electrical gauges have air core movements.
2 1/4" WT031..... P/N 10-01652 ..... **$61.75**
2" WT030..... P/N 10-01650 ..... **$49.50**



AMMETER ±30 AMPS

2 1/4" AG031..... P/N 10-01319 ..... **$39.95**
2" AG030..... P/N 10-01317 ..... **$35.65**



100# PRESSURE SENDER

HAS A 1/8" NPTF fitting.
OP030.2 ..... P/N 10-01573 ..... **$25.50**



TUBING KIT

Nylon tubing with brass fittings.
OP032.1 ..... P/N 10-01575 ..... **$14.70**
OP032.2 ..... P/N 10-01576 ..... **$17.90**

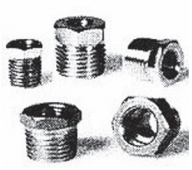


TEMPERATURE SENDERS

Single-station senders for water and oil temperature gauges.

WT030.2 ..... P/N 10-01384 ..... **$9.50**
OT030.2 ..... P/N 10-01587 ..... **$9.75**

IN



SENDER ADAPTERS

Electric sender adapter. 3/8" NPT

ADP04 ..... P/N 10-01311 ..... **$8.75**

APPLICATION NOTE: Most current production Rotax® engines require 1/8NPT temperature and pressure senders.

THERMOCOUPLES

BAYONET TYPE

Threaded Fitting with 1/8" ..... P/N AN4076 ..... **$24.50**
Pipe thread to mate with bayonet type thermocouple.

UNIVERSAL REPLACEMENT PROBES



CHT Probe, Type J, Style AN 5541-1
P/N AN5541-1 ..... **$62.70**
EGT Probe, Type K MM-111 ..... P/N 11-01022 ..... **$59.50**
CHT Probe, Type K ..... P/N 11-01023 ..... **$61.50**
Cessna CHT Probe S2334-3 - Must be used with the new Rochester Gauges. Cannot be used with the old Stewart Warner Gauges
P/N 06-00703 ..... **$269.75**
Note: These probes will only work with a grounded system.



THERMOCOUPLE LEADS

HEAVY-WEIGHT AN SPEC. WIRE LEADS

8 Ohm Resistance, Iron-Constantan, 90 In.
P/N 42535 ..... **$35.50**
8 Ohm Resistance, Iron-Constantan, 144 In. ..... P/N 42536 ..... **$45.75**
8 Ohm Resistance, Iron-Constantan, 20 Ft. ..... P/N 42537 ..... **$58.75**
EGT E.W. Rings P/N 11-05672. **$62.75**

LIGHT-WEIGHT 20 GA. WIRE LEADS

2 Ohm Resistance, Copper-Constantan, 10 Ft. .. P/N 10-10900 .... **$34.85**
2 Ohm Iron-Constantan, 5 Ft. 7 In. ..... P/N 10-11000 .... **$34.85**
8 Ohm Resistance, Iron-Constantan, 10 Ft. ..... P/N 10-11110 .... **$34.85**
Terminals on instrument end of lead are plain eye type (one for No. 8 screw and one for No. 10 screw).



METRIC ADAPTER

ADP06 ..... P/N 10-01313 ..... **$4.90**
ADP07 ..... P/N 10-01314 ..... **$5.50**
ADP08 ..... P/N 10-01315 ..... **$5.50**



FLOAT-TYPE FUEL PROBES

6-23" Probe. Adjustable, 6-23"; 240-33 ohms standard: 5-hole ASME pattern. Requires mounting kit.
FGP031 ..... P/N 10-01489 ..... **$26.65**



UNIVERSAL PROBE MOUNT

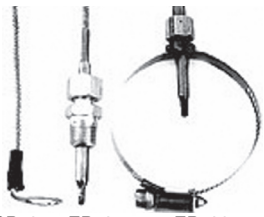
Works well with plastic and other tank. Includes threaded attachment ring, gasket, and hardware. Standard 5-hole SAE pattern.
FMK01 ..... P/N 10-01501 ..... **$8.75**



COLOR TINT LAMPS

Color tint lamp boots. Set of Boots. Changes your instrument backlighting to red for night flying.
LB001 ..... P/N 10-01556 ..... **$0.89**

MICRO-1000 PYROMETERS & PROBES



CP131 EP131 EP130

Superior to any other type of pyrometer available. Unlike competing brands, these units are temperature compensated. That is, when the ambient temperature changes, MICRO-1000 pyrometers still read the same. And we guarantee that, when properly installed, these pyrometers will be accurate within 2%. Like other MICRO-1000 gauges, these units come with our standard 2-year warranty. Order gauges, probes, and extension leads separately. NOTE: MICRO-1000 pyrometers are not compatible with other thermocouple probes. Order Micro-1000 Probes. ***• 2% Accuracy • Easy-to-Read Dial • Backlighting • Standard • Temperature Compensated • Shock & Vibration Resistant • Designed & Built for Aircraft***

MICRO-1000 EGT PROBES

Weld-on Boss Type EP131 ..... P/N 10-01477 ..... **$27.50**
Clamp-on Type EP130 ..... P/N 10-01471 ..... **$55.75**
Adjustable 8mm EP130R ..... P/N 10-01475 ..... **$46.25**
(for all Rotax w/factory Boss)
Adjustable 1/8NPT EP132 ..... P/N 10-01478 ..... **$41.85**
Adjustable 1/4NPT EP133 ..... P/N 10-01479 ..... **$42.85**

MICRO-1000 CHT PROBES

14mm CP130 ..... P/N 10-00823 ..... **$23.65**
18mm CP131 ..... P/N 10-01440 ..... **$23.50**
10mm CP132 ..... P/N 10-01441 ..... **$22.65**

MICRO-1000 LEADS

7-ft. CHT - Leads required ..... P/N 10-01442 ..... **$21.75**
15-ft. CHT - Leads required ..... P/N 10-01443 ..... **$45.50**
7-ft. EGT - Leads required ..... P/N 10-01480 ..... **$17.75**
15-ft. EGT - Leads required ..... P/N 10-01481 ..... **$37.00**
NOTE: For a complete CHT or EGT set, order Gauge, Probe, and leads

The CHT probe (above left) is a high quality Chrome/Constantan "E" type. A more expensive material than that of the more commonly found "J" type, the "E" type probe produces much greater accuracy at lower temperatures (less than 600°F). Extension wire is of the same material as the thermocouple to preserve the accuracy and temperature compensation qualities. NOTE: The 15' extension leads may be shortened up to seven feet. The EGT probes are high-quality Chrome/Alumel "K" types. Choose the weld-on boss type (above) for new engine installations. Choose the clamp-on type (above) to replace the existing probe. Order gauges, Micro-1000 probes and extensions separately. ***Note: These are "K" type grounded probes, not for use on digital gauges. For use with Micro-1000 gauges.***



CHT

Scaled 0-600°F

2-1/4" CH131 ..... P/N 10-01426..... **$68.75**
2" CH130 ..... P/N 10-01425..... **$59.50**



DUAL CHT

Scaled 0-600°F

2-1/4" CH141 ..... P/N 10-01429..... **$105.95**
2" CH140 ..... P/N 10-01428..... **$99.50**



EGT

Scaled 800-1700° F

2-1/4" EG131..... P/N 10-01464..... **$76.50**
2" EG130..... P/N 10-01463..... **$59.50**



DUAL EGT

2-1/4" EG141 ..... P/N 10-01467..... **$99.85**
2" EG140..... P/N 10-02093..... **$102.99**



DUAL CHT/EGT

2-1/4" CE141 ..... P/N 10-01409..... **$105.95**
2" CE140..... P/N 10-01408..... **$99.85**

VDO GAUGES & PROBES



CYLINDER HEAD TEMP.

2-1/4"...P/N 10-01424...**$112.95**
2" .....P/N 10-01423.....**$99.85**
0-600°F
Includes 14mm ring probe



EXHAUST GAS TEMP.

2-1/4"....P/N 10-01462...**$149.75**
2" .....P/N 10-01461...**$138.95**
250 -1650°F
With weld-on Boss type probe



OIL PRESSURE

2-1/4" ... P/N 10-01570 ....**$91.75**
2".....P/N 10-01567 ....**$79.50**
Includes 1/8NPT sender



OIL TEMP.

2-1/4" ...P/N 10-01583.....**$62.50**
2".....P/N 10-01579.....**$49.85**
Includes 1/8NPT probe



AMMETER - 12 VDC

2-1/4"... P/N 10-02335 .... **$53.75**
2" ..... P/N 10-02334 .... **$41.65**
No shunt required



VOLTMETER-12 VDC

2-1/4"... P/N 10-01638 .....**$48.50**
2" ..... P/N 10-01637 .....**$38.50**
With color arc

VDO GAUGES & PROBES



FUEL LEVEL-10-180 OHM

2-1/4".... P/N 10-01485 ... **$33.75**
2" ..... P/N 10-00825 ... **$21.75**
Order only P/N 10-04788 probes for this instrument.



WATER TEMP.

2-1/4" ....P/N 10-01649... **$59.95**
2".....P/N 10-01646....**$48.75**
Includes 1/8NPT probe



HOUR METER-12VDC

2-1/4"... P/N 10-01505 .....**$54.75**
2" ..... P/N 10-01504 .....**$42.50**
With minute hand



FLUID TEMPERATURE GAUGE

2" ..... P/N VDO180902D ..**$56.85**
Includes 96" capillary tubing and adapter kit.

VDO PROBES



VDO Float Probes - 240 ohms..... P/N 10-00826..... **$47.70**
Fuel Probe Mounting Ring ..... P/N 10-01502..... **$26.50**
VDO Temperature Probes - 1/8NPT
Water Probe 1/8" NPT ..... P/N 10-01648..... **$10.65**
Oil Probe 1/8" NPT..... P/N 10-01580..... **$14.95**
Oil Temp. Probe 3/8" NPT ..... P/N 10-01582..... **$16.50**
VDO CHT Probe - Type "J"
14mm ring type ..... P/N 10-01439..... **$28.50**
VDO EGT Probe - Type "K"
Weld-on Boss..... P/N 10-01461..... **$138.95**
Oil Pressure Sender 1/8" NPT ..... P/N 10-01568..... **$41.75**

STANDARD MICROFLIGHT ENGINE GAUGES

Standard gauges are a low cost solution for monitoring engine performance. The gauges on this and part of the next page are light-weight, inexpensive alternatives. These gauges are not temperature compensated; changes in ambient temperature will affect their readings. Unlike our MICRO-1000 gauges, they do require shock mounting. All gauges come with a 1-year warranty which covers any malfunction. Prices include probes with 4-ft. leads. Gauges leads may be extended with 18-gauge wire. "C" at end of P/N indicates temperature scale in degrees celsius.



CYLINDER HEAD TEMP.

2-1/4", 0-700°F ..P/N CH004....**$73.85**
2-1/4", 0-350°C..P/N CH004C .**$75.25**
Includes probe



EXHAUST GAS TEMP.

2-1/4",
600-1700°F....P/N EG004 ..**$102.75**
2-1/4",
400-900°C .....P/N EG004C..**$82.50**
Includes probe



DUAL CHT

2-1/4"...P/N CH005...**$139.95**
2-1/4"...P/N CH005C **$133.95**
Includes probe



DUAL EGT

2-1/4".... P/N EG005 ...**$149.95**
Includes probe

IN

STANDARD MICROFLIGHT ENGINE GAUGES

Standard gauges are a low cost solution for monitoring engine performance. The gauges on this and part of the next page are light-weight, inexpensive alternatives. These gauges are not temperature compensated; changes in ambient temperature will affect their readings. Unlike our MICRO-1000 gauges, they do require shock mounting. All gauges come with a 1-year warranty which covers any malfunction. Prices include probes with 4-ft. leads. Gauges leads may be extended with 18-gauge wire. "C" at end of P/N indicates temperature scale in degrees celsius.



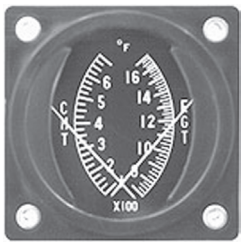
0-8000 RPM TACHOMETER

3-1/8" for 2-cycle engines for single Ignition
Ducatti Ignition... P/N TA023 ... **$81.50**
For lighting coil operation
No power required.



0-8000 RPM TACHOMETER

2-1/4" for 2-Stroke Engines
Single Ignition (all)..P/N TA006.. **$79.50**
Ducati Ignition.....P/N TA021.. **$69.85**
For lighting coil operation
No power required.



CHT/EGT COMBINATION

2-1/4" ..... P/N CE003 .... **$149.95**
2-1/4" ..... P/N CE003C . **$135.95**
Includes probe



CHT PROBE

"J" type sending unit with 4-ft. lead.
14 mm .... P/N CP001.... **$25.75**
10 mm .... P/N CP002.... **$16.90**

IN



CYLINDER HEAD TEMP.

2", 0-700°F ....P/N CH001 ..... **$69.75**
2", 0-350°C ....P/N CH001C..... **$70.00**
Includes probe



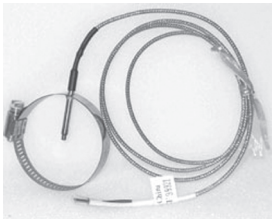
EXHAUST GAS TEMP.

2", 600-1700°F . P/N EG001 ... **$74.75**
2", 400-900°C ... P/N EG001C. **$74.25**
700-1700°F
Includes probe



CHT/EGT COMBINATION

2" ..... P/N CE001 ..... **$129.00**
2" ..... P/N CE001C **$133.50**
Includes probes



EGT PROBE

"K" type sending unit with 4-ft. lead.
P/N EP001 ..... **$31.65**
8 mm threaded EGT Probe
(for new 2-stroke Rotax)
P/N EP002 ..... **$34.90**



DUAL CHT

2" ..... P/N CH002 ..... **$126.95**
2" ..... P/N CH002C..... **$126.95**
Includes probes



DUAL EGT

2" ..... P/N EG002..... **$139.00**
2" ..... P/N EG002C **$139.00**
Includes probes



DUAL TACH/EGT

2" round gauge
Tachometer – Universal for single or dual ignition.
EGT range: 700-1700°F
EGT probe (clamp type).
P/N ET002R **$85.50**



0-8000 RPM TACHOMETER

2" for 2-Stroke Engines
Single Ignition (all)
P/N TA001 .. **$73.50**
Ducati Ignition.... P/N TA020 .. **$67.50**
For lighting coil operation

CPS
CALIFORNIA POWER SYSTEMS
EXPERTS IN LIGHTSPORT AVIATION

SAME DAY SHIPMENT!
GUARANTEED LOWEST PRICES!
YOUR SOURCE FOR LSA SUPPLIES!

AVIASPORT – ROTAX INSTRUMENTS

Specially designed gauges for Rotax engines. All these gauges include red, yellow, and green range marks that match the factory specs for the engine indicated at a glance. No wondering if the engine is within the proper operating conditions. Ideal for flight schools or any situation where multiple pilots use the same aircraft. Available in 2-1/4" square case units that mount flush in any flat panel.



ROTAX 912 TACHOMETER – 2-1/4"

0-7000 rpm. Electronic Connection only.
Red: 0-1200, 5800-7000
Yellow: 1200-1800, 5500-5800
Green: 1800-5500
P/N A105..... **$135.95**



ROTAX 912 TACHOMETER – 3-1/8"

0-7000 range. Electronic connection only
Red: 0-1200, 5800-7000
Yellow: 1200-1800, 5500-5800
Green: 1800-5500
P/N 149..... **$139.95**



ROTAX 912 TACH/ HOURMETER – 3-1/8"

0-7000 range. Hours: 10,000
Red: 0-1200, 5800-7000
Yellow: 1200-1800, 5500-5800
Green: 1800-5500
P/N A533..... **$139.95**



ROTAX 503-582 DUCATI IGNITION

0-8,000 rpm Electronic connection only
Red: 6800-8000
Yellow: 0-2000, 6500-6800
Green: 2000-6500
P/N A104..... **$122.75**



GYRO ROTOR TACH 0-500RPM

Must have matching pick-up
Red: 2000-2200, 2800-3100, 4200-5000
Green: 3100-4200
P/N A130..... **$130.95**
Pick-up Sensor P/N A423..... **$68.75**



ROTAX 912 OIL PRESSURE – PSI

For new style Honeywell Sender only
Red: 0-12, 90-150 psi
Yellow: 75-90 psi
Green: 30-75 psi
P/N A542..... **$87.75**



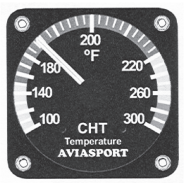
ROTAX 912 OIL PRESSURE – PSI

For VDO Sender only
Red: 0-12, 90-150 psi
Yellow: 75-90 psi
Green: 30-75 psi
P/N A572..... **$86.75**



ROTAX 912 OIL TEMP – F

For use with VDO Sender only
Red: 90-120, 280-320
Yellow: 120-190, 230-270
Green: 190-230
P/N A558 ..... **$86.75**



ROTAX 912 CHT TEMP – F

For use with VDO sensor only
Red: 270-300
Yellow: 100-150, 220-270
Green: 130-220
P/N A550 ..... **$86.75**



ROTAX 912 EGT TEMP – F

For use with Aviasport Sender only
Red: 1500-2000
Yellow: 600-1100
Green: 1100-1450
P/N A540 ..... **$211.95**
Screw-in Sender P/N A416 ..... **$45.50**



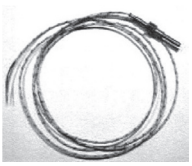
ROTAX FUEL PRESSURE – BAR

Requires Sender below
Red: 0-1.5 , 4-6 bar
Green: 0.8 – 4.0 bar
P/N A564 ..... **$83.75**



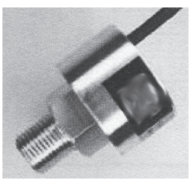
ROTAX 912 VOLTMETER

Red: 8-10, 14-16 volts
Yellow: 10-11, 13-14 volts
Green: 11-13 volts
P/N A562 ..... **$129.00**



AVIASPORT EGT SENDER

Screw-in type
P/N A416 ..... **$45.50**



AVIASPORT FUEL PRESSURE SENDER

1/8" npt threads
P/N A603 ..... **$193.75**

IN

SAFETY-FLY 700

Safety-fly 700 is a useful universal control device for ultralight aircrafts that monitors in real-time, by means of warning lights and an acoustic buzzer, all the engine pre-alarm parameters listed below using the standard sensor signals installed on the Rotax engine, thus avoiding engine problems.



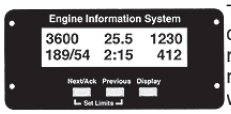
Safety-fly 700 displays and checks:
- pre-alarm cylinder heads
- pre-alarm engine oil temperature
- pre-alarm minimum and maximum engine oil pressure
- green light for regular oil temperature
- fuel light for open taps
- the position of flaps on 3 levels
- timer set to 2 minutes

The calibration is done directly by the pilot, by means of the existing instruments installed on the dashboard.

Safety-fly 700 is supplied with wiring harness, connectors and operating manual. 3 year warranty.

Made in Italy.....P/N 10-04934 ..... **$269.95**

SUPER ENGINE INFORMATION SYSTEM (EIS)



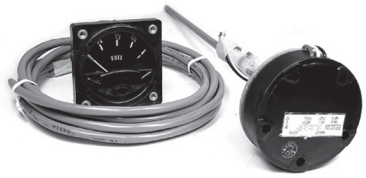
The instrument has been proven in thousands of installations worldwide. Excellent quality and robust design makes this instrument highly reliable. Systems include probes and pre-wired cables, or may be purchased individually. Requires (5) 15/16"w x 2-3/4"h x 2-1/2"d panel space. Specify engine and aircraft makes and models, standard systems furnished with gasket type CHT senders and hose clamp type EGT senders.

Lifetime warranty for manufacturer defects

Description	Model	Part No.	Price
EIS Fuel Flow Option	OPT-FF-01	10-28004	**$324.00**
2-stroke, 4 Cylinder	4002	10-00280	**$879.95**
Rotax 912/912S/914	2004	10-00281	**$515.00**
Rotax HKS	2004	10-00282	**$619.00**
Super EIS 2-stroke package	2000	10-28000	**$449.95**
2-stroke Altimeter/rate-of-climb pkg	2000	11-06277	**$132.75**

IN

SKYSPORTS CAPACITIVE FUEL SYSTEMS



The Skysports fuel monitoring system is a capacitance system which has no float and no moving parts except the needle on the gauge. Used in hundreds of various ultralight, homebuilt, and military aircraft, these fuel systems have been very popular due to their accuracy and durability. The Skysports fuel probe electronically measures the level of fuel in the tank, and sends the signal through the wire harness to the gauge. Available for single or dual tank use and for 12 or 24 volt operation. The system includes the gauge, probe, 8 ft. wire harness, mounting hardware, & instructions.

The SkySports 240-33ohm fuel systems are no longer available. They have been replaced with a new 0-5V system. These new systems, (listed below) can be used on both 12 or 24 volt aircraft. The older 240-33ohm gauge and probes are not interchangeable with the new 0-5V gauge or probes. However the installation of the systems are the same.

Note:The Skysports 240-33ohm older style probes are only available as special order upon request.

ROUND GAUGE SYSTEMS



Description	Part No	Price
2" Round 6" Straight Probe	10-04509	**$156.61**
2" Round 12" Straight Probe	10-04495	**$159.51**
2" Round 24" Straight Probe	10-04496	**$161.26**
2" Round 12" with 3" Bendable Probe	10-04497	**$151.76**
2" Round 24" with 3" Bendable Probe	10-04498	**$163.51**
2" Round 12" with 5" Bendable Probe	10-04499	**$159.51**
2" Round 24" with 5" Bendable Probe	10-04501	**$163.51**

SQUARE GAUGE SYSTEMS



Description	Part No.	Price
2-1/4" Square 6" Straight Probe	10-04511	**$166.36**
2-1/4" Square 12" Straight Probe	10-04502	**$169.26**
2-1/4" Square 24" Straight Probe	10-04503	**$171.01**
2-1/4" Square 12" with 3" Bendable Probe	10-04504	**$161.51**
2-1/4" Square 24" with 3" Bendable Probe	10-04505	**$173.26**
2-1/4" Square 12" with 5" Bendable Probe	10-04506	**$169.26**
2-1/4" Square 24" with 5" Bendable Probe	10-04507	**$173.26**

INDIVIDUAL COMPONENTS

Description	Part No.	Price
2" Gauge Only	10-04119	**$55.75**
2-1/4" Gauge Only	10-01246	**$65.50**
12" Straight Probe	10-03758	**$82.75**
6" Straight Probe	10-03753	**$79.85**
24" Straight Probe	10-03773	**$84.50**
12" with 3" bend probe	10-03746	**$75.00**
24" with 3" bend probe	10-03774	**$86.75**
12" with 5" bend probe	10-03761	**$82.75**
24" with 5" bend probe	10-03776	**$86.75**
Installation Kit	10-03731	**$21.00**

FUEL LEVEL SYSTEM BY DATCON



This Datcon fuel gauge and senders are designed for use with 12 volt electrical systems in automotive, marine and homebuilt aircraft applications. The gauges have a round 2" diameter case with chrome bezel. Mounting brackets and instructions are furnished. 240-33 Ohms.

Gauge No. 100177 with steel case

P/N 100177 ..... **$36.75**

Lighting Kit (12V) .....P/N 06215-00 ..... **$4.65**



UNIVERSAL SENDER FOR DATCON GAUGES

This Fuel Level Sender has removable mounting plate which can rotate 180° to mount on either right hand or left hand position. For tanks 6"-15" deep.

P/N 05-16710.....**$31.50**



DYNON EFIS-D10A

Dynon's EFIS-D10A is a full-featured Electronic Flight Information System in a small package. This instrument fits into a standard 3-1/8" panel hole, makin ents, the EFIS-D10A also has a built-in HSI and autopilot capability.

EFIS-D10A features and options: • Sunlight-readable, 4" color display with full dimming control • Attitude Indicator, Heading, Altimeter, ASI, VSI, Turn Coordinator / Slip/Skid Ball, HSI, OAT, TAS, Angle of Attack, Voltmeter • Altitude encoder output • Dual-axis autopilot • Backup battery • 25 User-defined checklists • Dynon three-year factory limited warranty
EFIS-D10A Instrument (with out battery)..... P/N 10-00844 ..... **$2,095.00**

EFIS-D10A OPTIONS

Description	Part No.	Price
Internal Li-Ion Backup Battery	10-00755	**$129.95**
Remote Compass (EDC-D10A)	10-01046	**$99.95**
OAT Probe (requires EDC-D10A)	10-01823	**$66.75**
D10 Flush Mount Bracket	10-00757	**$19.95**
AOA/Pitot Probe (unheated)	10-01157	**$196.50**

Description	Part No.	Price
Wiring Harness	10-01158	**$79.50**
Encoder Converter Module (serial to parallel convertor for gray code transponders)	10-01159	**$79.85**
USB-Serial Converter	10-01824	**$21.50**



DYNON EFIS-D100

Dynon's EFIS-D100 includes all of the instruments and features of the EFIS-D10A, but on a brilliant 7" wide-screen display with full dimming control. The larger size allows for multiple information pages to be displayed side-by-side in a split-screen format, enabling you to have full PFD while also displaying HSI, timers, or engine monitoring information from your Dynon EMS.

Additionally, the EFIS-D100 is available in an optional Super-Bright Screen format, improving its readability and overall performance in all light conditions.
Dimensions: 6.95" W x 4.90" H x 4.51" D
Includes Dynon three-year factory limited warranty

EFIS-D100 System (includes remote compass, mounting tray & USB-serial converter.....P/N 10-01705 .....**$2,425.00**
EFIS-D100 System with Super Bright Screen.....P/N 10-02155 .....**$2,495.00**

EFIS-D100 OPTIONS

Description	Part No.	Price
Internal Li-Ion Backup Battery	10-00755	**$129.95**
OAT Probe	10-01823	**$66.75**
AOA/Pitot Probe (unheated)	10-01157	**$196.50**

Description	Part No.	Price
Wiring Harness	10-01158	**$79.50**
Encoder Converter Module (serial to parallel convertor for gray code transponders)	10-01159	**$79.85**

DYNON EFIS-D6 / EFIS-D60



Because some like to keep it simple, Dynon offers the EFIS-D6 and EFIS-D60 as basic, even more affordable Electronic Flight Information System (EFIS) solutions. Perfect for pilots who want to save panel weight, space, and installation time compared to a conventional analog gauges, the EFIS-D6 and EFIS-D60 feature all the amenities of a traditional six-pack while also adding a voltmeter and altitude encoder. The EFIS-D6 fits into a standard 3-1/8" panel hole, making it an ideal candidate for replacing vacuum and electric attitude indicators. The EFIS-D60 maintains the same profile and 7" screen as the EFIS-D100, and is available in the Super-Bright screen version only. EFIS-D6 / EFIS-D60 features and options: • Sunlight-readable, color display with full dimming control • Attitude Indicator, Heading, Altimeter, ASI, VSI, Turn Coordinator / Slip/Skid Ball, Angle of Attack, Voltmeter • Altitude encoder output • Backup battery • Dynon three-year factory limited warranty.

Description	Part No.	Price
EFIS-D6	10-03865	**$1,545.00**
EFIS-D60 With Super Bright Screen	10-03866	**$1,825.00**
EFIS Wiring Harness	10-01158	**$79.50**

Accessories	Part No.	Price
EFIS Backup Battery D180 D100 D60	10-00755	**$129.95**
OAT Probe D180 D100 D60 D10A D6	10-01823	**$66.75**
Flush Mount Bracket D10A D10 D6	10-00757	**$19.95**



DYNON HS34 HSI EXPANSION MODEL

The HS34 HSI Expansion Module was designed to enhance the capability of Dynon's best-selling EFIS products. The panel-mounted HS34 not only expands the HSI functionality of your EFIS-D10A, EFIS-D100, or FlightDEK-D180, but also enables several new features for any Dynon instrument to which it is networked:
• Allows Dynon EFIS to interface with multiple radios and GPS devices simultaneously • Includes multiple interfaces to accommodate analog, ARINC-429 and RS-232 inputs • Accepts signals from marker beacon receivers and DME devices • Backlit to facilitate night flight conditions • Designated control knobs for adjusting Heading, Course (OBS), or general purpose values such as barometer. • Designated NAV and Bearing Source selection buttons • Simple 2-wire connection to Dynon EFIS instruments. • Dimensions: 1.639" W 4.903" H 4.951" D • Dynon three-year factory limited warranty

Dynon HS34 HSI Expansion Model - Vertical..... P/N 10-02590..... **$645.00**
Dynon HS34 HSI Expansion Model - Horizontal ..... P/N 10-02773..... **$646.00**



DYNON D1 POCKET PANEL - PORTABLE EFIS

"A LITTLE ATTITUDE FOR EVERYONE"

Dynon introduces a real, portable attitude indicator that can be used by ALL pilots. The D1 utilizes the Dynon ARHS technology that has made them the leading supplier of EFIS (Electronic Flight Information Systems) for experimental and light sport aircraft. Unlike smartphone apps, the D1 displays actual aircraft attitude.

Features: • Proven Dynon MEMS-based attitude sensors • Accurate pitch and roll: A true artificial horizon • Internal Li-Ion battery and GPS for hours of portable use • Versatile portable mounts: RAM suction mount and 3-1/8" panel hole "pinch" mount both included • GPS ground speed and track (heading) • GPS altitude and vertical speed • Turn rate • Slip/skid ball • Dimmable screen for night flight • Truly pocket sized, approx. 3½" x 3¼" x 1"

Included accessories are: • AC Wall Charger • DC Vehicle Charger • Qty 2 Mounting Cradles • RAM® Portable Suction Cup Mount • Portable "Pinch" Mount for Standard 3-1/8" Instrument Hole • External GPS Antenna.
P/N 11-10739.....**$1,425.00**



DYNON EMS-D10 ENGINE MONITORING SYSTEM

The Dynon EMS-D10 offers more engine information in less space then ever before – full engine monitoring with up to 27 separate inputs on a highly readable 4" display, installed in your standard 3-1/8" panel hole. A designated Fuel Computer page allows the pilot to see fuel levels for up to 4 tanks, fuel pressure, fuel flow, fuel used, fuel remaining, time remaining and fuel required to destination all on one optimized display. To keep the classic look and feel of the Dynon product family, the EMS-D10 utilizes the same highly-visible display, keypad, and bezel as the best-selling EFIS-D10A – and will provide engine information to your Dynon EFIS through a simple 2-wire connection. As an added safety feature, the EMS-D10 also features programmable alarms which can be displayed on screen, through a separately mounted indicator light, or by an audible annunciation through your intercom. EMS-D10 features and options: • Sunlight-readable, 4" color display with full dimming control • Replaces up to 16 different types of gauges • Individual displays for up to 6 EGT and 6 CHT inputs • Customizable displays for Tachometer, Fuel Pressure, Oil Pressure, Oil Temp, Manifold Pressure, Volts/Amps, Carb Temp, OAT, Coolant Temp /Pressure, Hobbs/Tach Time • Fuel level display for up to 4 tanks • Fuel flow measurement with fuel computer display • Customizable settings for Green/Yellow/Red parameters on all inputs• Inputs for flaps/trim position sensors and contacts • Programmable visual and audio alarms • 25 User-defined checklists • Dynon three-year factory limited warranty P/N 10-01160 ..... **$1,665.00**

EMS OPTIONS

Description	Part No.	Price
Capacitance to Volt Converter	10-02159	**$49.95**
Fuel Flow Sensor	10-01165	**$148.00**
USB-Serial Converter	10-01824	**$21.50**
D10 Flush Mount Bracket	10-00757	**$19.95**
EGT Thermcouple Ext Wire	10-01167	**$0.99**
CHT Thermcouple Ext Wire	10-01168	**$0.99**

COMPLETE ENGINE PACKAGES

(EMS-D10 Engine Monitor, engine sensors and 2 wiring harnesses)

Description	Part No.	Price
EMSKIT-RTX, 4Cyl Rotax 912/914 Package	10-01830	**$1,933.00**



DYNON EMS-D120 ENGINE MONITORING SYSTEM

Featuring all of the same inputs and features of the EMS-D10, the Dynon EMS-D120 brings full engine monitoring to your panel on a stunning 7" wide-screen display. The larger size allows for multiple information pages to be displayed side-by-side in a split-screen format, enabling you to have full view of your primary engine inputs while also viewing your fuel computer, engine timers, or flight information from a Dynon EFIS. Additionally, the EMS-D120 is available in an optional Super-Bright Screen format, improving its readability and overall performance in all light conditions.
Dimensions: 6.95" W x 4.90" H x 4.51" D
Includes Dynon three-year factory limited warranty

EMS-D120 System
(no engine sensors or wiring harnesses) ..... P/N 10-01825 ..... **$1,932.00**
EMS-D120 w/ Superbright Screen ..... P/N 10-02156 ..... **$2,129.00**

SENSOR INPUTS

6 - EGT (Type K Thermocouple)
6 - CHT (Type J Thermocouple)
2 - Fuel Level (Resistive [0-1 K ohm] or Capacitance [0-5 volt])
2 - RPM (Frequency)2 - Contacts
1 - Manifold Pressure (Voltage)
1 - Oil Temperature (Resistive)
1 - Oil Pressure (Resistive)
1 - Fuel Pressure (Resistive)
1 - Fuel Flow (Frequency)
1 - Amps (Shunt)
1 - Volts
1 - Turbine Inlet Temperature (Type K Thermocouple)
3 - General Purpose (Either resistive or voltage for OAT, Fuel Tanks 3 & 4, Coolant Temp/Press, Carb Temp)

COMPLETE ENGINE PACKAGES

(EMS-D120 Engine Monitor, engine sensors and 2 wiring harnesses)

Description	Part No.	Price
EMSKIT-RTX, 4Cyl Rotax 912/914 Package	10-01831	**$2,184.00**
EMSKIT-RTX, wirh Super Bright Screen	10-02166	**$2,474.00**

EMS OPTIONS

Description	Part No.	Price
Capacitance to Voltage Converter	10-02159	**$49.95**
Fuel Flow Sensor	10-01165	**$148.00**
USB-Serial Converter	10-01824	**$21.50**
EGT Thermcouple Ext Wire	10-01167	**$0.99**
CHT Thermcouple Ext Wire	10-01168	**$0.99**



DYNON FLIGHTDEK-D180

The FlightDEK-D180 combines Dynon's best-selling EFIS and EMS (Engine Monitor System) instruments into one brilliant 7" sunlight readable display, giving you an unparalleled assortment of functions in one easy-to-use, very powerful instrument. Pilots may elect to display both EFIS and engine monitor functions simultaneously in split-screen format or switch over to a full screen EFIS or EMS via simple hotkey commands – allowing for full monitoring of any combination of PFD, engine sensors, fuel computer, HSI, and timers. Like all other Dynon instruments, the FlightDEK-D180 comes with a 3-year warranty and free lifetime software updates. Additionally, the FlightDEK-D180 is available in an optional Super-Bright Screen format, improving its readability and overall performance in all light conditions.
Dimensions: 6.95" W x 4.90" H x 4.51" D Includes Dynon three-year factory limited warranty

DEK-D180 w/ Superbright Screen. .....P/N 10-02157 ..... **$3,295.00**

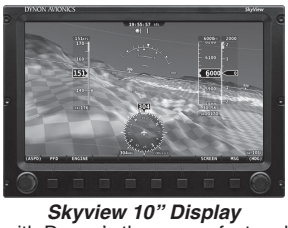
FLIGHTDEK OPTIONS

Description	Part No.	Price
Battery	10-00755	**$129.95**
OAT Probe	10-01823	**$66.75**
AOA/Pitot Probe (unheated)	10-01157	**$196.50**
AOA/Pitot Probe (heated)	10-02158	**$449.00**
Encoder Converter Module	10-01159	**$79.85**
Fuel Flow Sensor	10-01165	**$148.00**
EGT Thermcouple Ext Wire	10-01167	**$0.99**
CHT Thermcouple Ext Wire	10-01168	**$0.99**
OAT	10-01176	**$36.95**
HS34 HSI Expan. Mdl. Vertical	10-02590	**$645.00**
HS34 HSI Expan. Mdl.Horizontal	10-02773	**$646.00**
Capacitance to Volt Converter	10-02159	**$49.95**
Wiring Harness	10-01158	**$79.50**

COMPLETE ENGINE PACKAGES

(FlightDEK-D180, engine sensors and 2 wiring harnesses)

Description	Part No.	Price
EMSKIT-RTX, 4Cyl Rotax 912/914 Package	10-01841	**$3,640.00**
EMSKIT-RTX, with Super Bright Screen	10-02168	**$3,640.00**



Skyview 10" Display

DYNON SKYVIEW EFIS/EMS SYSTEM

SkyView is the latest glass-panel solution from Dynon Avionics, featuring a full PFD with synthetic vision, moving map with terrain and obstacles, engine monitor, and autopilot. Very bright, high-resolution screens with full dimming control provide excellent visibility in all conditions, while two multi-position control knobs allow easy user input. The full-color PFD features a full set of flight instruments over a highly-detailed 3D synthetic vision display, while your aircraft's position is shown on a moving map with color-coded terrain, obstacles, and airport/airspace information. In addition, the SkyView will accommodate full engine monitor display and a dual-axis autopilot through the addition of optional Dynon hardware. SkyView systems come standard with Dynon's three-year factory limited warranty.



Skyview 7" Display

SkyView system features and options: • 10" display screen, 1024x600 resolution and 1350 nits brightness • 7" display screen, 800x480 resolution and 1200 nits brightness • Synthetic Vision / 3D terrain • PFD featuring Altimeter, ASI, Compass/Heading, VSI, OAT, TAS, Turn Coordinator / Slip/Skid Ball, HSI, GPS Ground Track, Angle of Attack • GPS / Moving Map with color-coded terrain, obstacles, airports & airspace • Engine Monitor with fully-customizable display • Dual-axis Autopilot • Altitude encoder output • Backup battery • Convenient program and data updates via USB memory stick • Unlimited future expandability including include external video display, weather data, traffic, and complete Com radio, Nav radio, and transponder control. **Dimensions**: • 10" display: 10.32" W x 7.06" H x 2.14" D • 7" display: 7.64" W x 5.51" H x 2.14" D

DYNON SKYVIEW EFIS/EMS SYSTEM (CONT'D)

Model No.	Description	Part No.	Price
SV-D700	SkyView 7" Display (includes main wiring harness)	10-03933	$2,579.00
	SkyView 7" Display (Display Only)	10-03935	$2,465.00
SV-D1000	SkyView 10" Display (includes main wiring harness)	10-03932	$3,395.00
	SkyView 10" Display (Display Only)	10-03934	$3,295.00
SV-ADAHRS-200	SkyView ADAHRS - First	10-03936	$1,175.00
SV-ADAHRS-200 & 201	SkyView ADAHRS - Dual	10-04018	$1,941.00
SV-EMS-220	SkyView Engine Monitoring Module	10-03938	$589.00
SV-GPS-250	SkyView GPS 5Hz Receiver Module	10-03939	$198.50
SV-BAT-320	SkyView Backup Battery	10-03940	$178.50
SV-HARNESS-D37	Dynon Display Harness with Wiring	10-03941	$93.50
SV-MAP-270	SkyView GPS Navigation Software Enhancement	10-04678	$495.00
SV-ETHERNET-3CC	Dynon Ethernet Cable	10-04679	$24.95
101406-000	Skyview ARINC Adapter	10-04520	$469.95
SV-VPX-290	SkyView Vertical POwer Unlock Code	10-04810	$269.00
SV-NET-3CC	Network Cable – Both ends with connectors, 3' long	10-03942	$39.90

Model No.	Description	Part No.	Price
SV-NET-6CC	Network Cable – Both ends with connectors, 6' long	10-03943	$44.00
SV-NET-10CP	Network Cable – 1 end with connector, 1 end with pins only, 10'	10-03944	$49.75
SV-NET-15CP	Network Cable – 1 end with connector, 1 end with pins only, 15'	10-03945	$54.85
SV-NET-20CP	Network Cable – 1 end with connector, 1 end with pins only, 20'	10-03946	$59.00
SV-NET-SPL	Network Splitter	10-03948	$65.00
SV-NET-SERVO	Network Autopilot Servo Wiring Kit Includes 20	10-04491	$54.75
01411-000	SkyView XPDR M-S C-1	10-04518	$2,099.00
101412-000	SkyView XPDR M-S C-2	10-04519	$1,695.00
100403-003	Dynon EMS Fuel Flow Sensor	10-01165	$148.00
100654-000	Dynon Capacitance to Volt Converter	10-02159	$49.95
101409-000	Dynon SkyView XPDR M-S C-1	10-04518	$2,099.00
101410-000	Dynon SkyView XPDR M-S C-2	10-04519	$1,695.00



DYNON PACKAGES

OPTIONS

Description	Part No.	Price
Add a PS engineering pm 500ex 4 place mono panel mount intercom	11-11800	$269.95
Add PM 1200 high noise intercom	11-01671	$429.99

PACKAGE A
- Dynon FlightDEK D180 w/ Super Bright
- Dynon EFIS Harness
- Garmin SL 30 NAV/COM w/ Harness
- Garmin GTX 327 Transponder w/ Harness

Note: D180 does not come w/ engine harness.

P/N 11-07133.....**$8,828.00**

PACKAGE B
- Dynon FlightDEK D180 w/ Super Bright
- Dynon EFIS Harness
- Icom A210 COM
- Garmin GTX 327 Transponder w/ Harness

Note: D180 does not come with engine harness.

P/N 11-07134.....**$6,109.00**

PACKAGE C
- Dynon D100 w/ Super Bright
- Dynon EFIS Harness
- Garmin SL 30 NAV/COM w/ Harness
- Garmin GTX 327 Transponder w/ Harness

P/N 11-07135.....**$8,052.00**

PACKAGE D
- Dynon D100 w/ Super Bright
- Dynon EFIS Harness
- Icom A210 COM
- Garmin GTX 327 Transponder w/ Harness

P/N 11-07136.....**$5,363.00**

PACKAGE E
Dynon D100 w/ Super Bright
- Dynon EFIS Harness
- Dynon D120 w/ Super Bright
- Garmin SL 30 NAV/COM w/ Harness
- Garmin GTX 327 Transponder w/ Harness

Note: D120 does not come w/ engine harness.

P/N 11-07137.....**$10,081.00**

PACKAGE F
- Dynon D100 w/ Super Bright
- Dynon EFIS Harness
- Dynon D120 w/ Super Bright
- Icom A210 COM
- Garmin GTX 327 Transponder w/ Harness

Note: D120 does not come w/ engine harness.

P/N 11-07138.....**$7,686.00**

PACKAGE G
- Dynon FlightDEK D180 w/ Super Bright
- Dynon EFIS Harness
- Dynon HS 34 HSI Vertical Module
- GNS 430W w/ Harness
- GTX 327 Transponder w/ Harness

Note: D180 does not come w/ engine harness.

P/N 11-07139.....**$13,998.00**



GARMIN GDL 39

ADS-B Datalink Traffic and Subscription-Free Weather for Garmin Aviation Portables & iPads

The GDL 39 offers the complete package that combines a dual-link ADS-B receiver and Garmin's industry-leading GPS receiver into a single unit that streams ADS-B datalink traffic and subscription-free weather to select Garmin aviation portables including the aera® 796/795, aera 500 series, GPSMAP® 696/695, G3X™ experimental flight display and select Garmin Pilot™ app compatible devices..... **$799.00**

GARMIN GLO FOR AVIATION

P/N 11-10779 ..... **$129.00**



GARMIN AERA 796/795

With a choice of portrait or landscape orientation, the aera's "virtual reality" flight graphics can be framed with GPS-derived indications of ground track, altitude, groundspeed, vertical speed and turn indication – all updated 5 times per second.

796 Americas,XM ..... P/N 11-10033 ..... **$2,499.00**
795 Americas ..... P/N 11-10034 ..... **$2,199.00**
795 Atlantic..... P/N 11-10035 ..... **$2,199.00**
795 Pacific..... P/N 11-10036 ..... **$2,199.00**

GPSMAP 696 & 695

GPSMAP 696 Americas ..... P/N 11-07022 ..... **$1,999.00**
GPSMAP 695 Americas ..... P/N 11-07023 ..... **$1,699.00**

GARMIN AERA 500 SERIES

Now, the company that brought you aviation's first "mini-MFD" is taking the concept to a whole new level: With the Garmin aera™ lineup of touchscreen GPS portables. Featuring crisp 4.3-inch QVGA wide-format displays with menu-driven tap-and-drag user interface, these four versatile "dual boot" models let you transition seamlessly from runways to roadways with the best in Aviation and Automotive moving-map navigation.

Aera 500 Americas (Pacific and Atlantic also available) ..... P/N 11-08044 ..... **$699.00**
Aera 510 Americas..... P/N 11-08045 ..... **$1,099.00**
Aera 550 Americas (Pacific and Atlantic also available) ..... P/N 11-08046 ..... **$1,249.00**
Aera 560 Americas..... P/N 11-08047 ..... **$1,599.00**





MGL EFIS EXPLORER 8.5" TOUCHSCREEN

The Explorer EFIS is a custom developed touch pressure sensitive LCD screen aimed exclusively at the small aircraft application. With the ability to accurately measure contact force in all conditions, it becomes possible to utilize the user interface advantages of a touch screen even in turbulent flight. Unlike conventional touch screen technology, MGL's "tap screen" can be used with gloves, is completely unaffected by sunlight and even uses a polarized anti reflective and anti glare film

P/N 11-10816 ..... **$2,500.00**

Accessories		
MGL SP-6 Magnetometer Sensor	11-09744	**$260.00**
MGL SP-6 Magnetometer Sensor	11-09743	**$800.00**
MGL IEFIS Explorer Rotax 912IS kit	11-11253	**$1,687.85**
MGL IEFIS Explorer Rotax 912 kit	11-11254	**$1,687.85**

IN

MGL AVIONICS GENERATION 2 ODYSSEY 10.4" EFIS/EMS/GPS



The Odyssey is a comprehensive flight, engine and navigation instrument designed for Experimental and Light Sport aircraft. Like the Enigma, the Odyssey is a hardware and software concept that promotes a flexible, powerful EFIS platform together with a software application system that is highly user-modifiable. As an EFIS hardware platform, the Odyssey provides state of the art multi-processor based processing utilizing components chosen for absolute robustness in radiation intense environments such as found at high altitudes. This is coupled with intense low power design methods to further maximize overall system application and reliability. The large amount of flexibility built into the base system allows the adaptation of the Odyssey to almost any mission and aircraft. Due to low system cost, the Odyssey is equally suited to very light aircraft, gliders and rotorcraft, while providing enough flexibility to be utilized by even twin-engine aircraft with full dual engine monitoring.

10.4" Display MGL Odyssey Generation 2..... P/N 11-05835.. **$3,900.00**

MGL AVIONICS VOYAGER 8.4" EFIS/EMS/GPS



The Voyager is IDENTICAL in PRICE and FUNCTION to the Odyssey. The only difference is the size. The Voyager is a comprehensive flight, engine and navigation instrument designed for Experimental and Light Sport aircraft. Like the Enigma, the Odyssey/Voyager is a hardware and software concept that promotes a flexible, powerful EFIS platform together with a software application system that is highly user-modifiable. The Voyager shares all software features with the Enigma, but differs in the following ways: Larger screen (8.4" diagonal). High resolution full VGA active TFT display - one of the best we have found! Faster processor for future functionality. 2 user-configurable rotary knobs and 7 function keys. ARINC 429 interface for communication with traffic alert systems (TIS and ZAON XRX) and for communicating with high-end digital autopilots (GPS Steer and Vertical Nav). CAN (automotive bus) for reading the ECU of automotive engine conversions. Analog +/- 150mA NAV inputs to display CDI/LOC/GS when connected to older analog Nav radios Low... Weight: Under 4 lbs. Current Draw: Only 1.5 Amps @ 12 Volts High... Screen brightness (800-1000 nits). Reliability. Flexibility (any screen layout you want!). Feature count (more instrument options available than most EFISs) P/N 11-06963 ..... **$3,900.00**

STRATOMASTER ENIGMA 5.7" EFIS/EMS/GPS



The Enigma is a comprehensive flight, engine and navigation instrument designed for Experimental and Light Sport aircraft. The large amount of flexibility built into the base system allows the adaptation of the Enigma to almost any mission and aircraft. Due to low system cost, Enigma is equally suited to very light aircraft, gliders and rotorcraft, while providing enough flexibility to be utilized by even twin-engine aircraft with full dual engine monitoring. P/N 11-05555 ..... **$2,550.00**

Accessories for Odyssey, Voyager & Enigma		
MGL SP-6 Magnetometer Sensor	11-09744	**$260.00**
MGL SP-7 Stand Altitude Sensor	11-09743	**$800.00**
MGL EFIS Rotax 912IS kit	11-11255	**$320.90**
MGL EFIS Rotax 912 kit	11-11256	**$444.80**

MGL AVIONICS XTREME MINI EFIS



The XTreme EFIS is a mini-EFIS unit based on a 4.3" sunlight readable, wide viewing angle, high resolution LCD display. It integrates an SD card reader (for software updates and for flight data recorder), 5 function buttons, a rotary control and a basic GPS navigator (functions available in future firmware release). It can be connected to standard MGL Avionics AHRS sensors and RDAC (engine monitor) boxes. It also integrates a CAN Aerospace compatible communications interface that will be used with future versions of MGL Avionics sensors. Standard RS-232 ports are also available. The XTreme is designed to fit a standard 3 1/8" round instrument hole.

P/N 11-08757 ..... **$1,150.00**

Accessories		
MGL SP-6 Magnetometer Sensor	11-09744	**$260.00**
MGL SP-7 Stand Altitude Sensor	11-09743	**$800.00**
MGL EFIS Extreme Rotax 912IS kit	11-11257	**$429.85**
MGL EFIS Extreme Rotax 912 kit	11-11258	**$444.80**

MGL AVIONICS XTREME 4.3" MINI EMS



The XTreme EMS is based on a 4.3" sunlight readable, wide viewing angle, high resolution LCD display. It integrates an SD card reader (for software updates and for engine data recorder), 5 function buttons, a rotary control. It can be connected to standard MGL Avionics RDAC (engine monitor) boxes (required). The XTreme EMS is designed to fit a standard 3 1/8" round instrument hole. The body is located off-center allowing the unit to replace instruments on the right side of a standard 6-pack configuration or any other location that currently occupies two instruments. Due to the light weight and very low mounting depth no complicated mounting brackets or trays are needed. Power use is low and operation from much less than 12V to around 28V is fully supported

EXtreme MS ..... P/N 11-10393 ..... **$850.00**

Accessories		
MGL SP-6 Magnetometer Sensor	11-09744	**$260.00**
MGL SP-7 Stand Altitude Sensor	11-09743	**$800.00**
MGL EMS Extreme Rotax 912IS kit	11-11259	**$429.85**
MGL EMS Extreme Rotax 912 kit	11-11261	**$444.80**

POWERSONIC BATTERIES



P/N 11-03153

Power Sonic sealed maintenance-free batteries allow safe, trouble-free operation in any position. You never need to add electrolyte; gases generated during over charge are recombined in a unique "oxygen cycle". Under normal operating conditions, 4 or 5 years of dependable service can be expected in standby applications, or between 200 and 1000 charge/discharge cycles, depending on depth of discharge. Temp. range: -76° to +140°F.

3-AMP BATTERY - Model: Powersonic PS-1230, PPS SKU: 35L116S1 Shipping Weight: 3 lbs, Dimensions: 5.23"L x 2.64"W x 2.36"H, Voltage: 12 Volts, Capacity: 3 Amp Hour(s), Chemistry: Lead.
P/N 11-03153 ..... **$24.50**

18-AMP BATTERY - Model: Powersonic PS-12180NB, PPS SKU: 35L105S3, Shipping Weight: 14 lbs, Dimensions: 7.13"L x 2.99"W x 6.57"H, Voltage: 12 Volts, Capacity: 18 Amp Hour(s), Chemistry: Lead.
P/N 11-03154 ..... **$63.75**

26-AMP BATTERY - Model: Powersonic PS-12260NB, PPS SKU: 35L107S1, Shipping Weight: 18 lbs, Dimensions: 6.56"L x 6.97"W x 4.92"H, Voltage: 12 Volts, Capacity: 26 Amp Hour(s), Chemistry: Lead
P/N 11-03155 ..... **$84.50**

ATP HIGH POWER BATTERIES



ATP's UltraStart-Red & UltraBat-13 batteries are the ultimate in high power density non-spillable SLA batteries. Ideal for starting light aircraft engines for ultralight and experimental aircraft and other internal combustion engines. Typical applications include all Rotax 2 stroke engines and HKS 4-stroke engines. For engines 100HP and up UltraStart-Red - Voltage: 12.6 VDC, Energy: 5AH cap., Peak current: 250A instantaneous, Weight: 4.4 lbs., Size: 2.7"l x 3.5"w x 5.0"h

UltraBat-13 – Voltage: 12.6 VDC, Energy: 13AH cap., Peak current: 650A instantaneous, Weight: 10.8 lbs., Size: 3-3/8"l x 7"w x 5"h

UltraStart-Red .....P/N 11-00375 ..... **$153.85**
UltraBat-13 .....P/N 11-00378 ..... **$179.95**
Battery box for UltraStart-Red.....P/N 11-01997 ..... **$32.75**

FULL SPECTRUM POWER LITHIUM BATTERIES



Full Spectrum Power makes no compromise in the design and construction of their lightweight batteries. These batteries deliver the highest current, at consistent voltage, powering the world's fastest motorcycles. Full Spectrum Power is the only battery company in the powersports market that uses real, certified cells from A123 Systems. These are the finest cells on the planet. Every Full Spectrum Power battery is designed and manufactured in the USA, using engineering and assembly methods derived from years of working with factory race teams in AMA Superbike, Supercross, Motocross, Drag Racing, Land Speed Racing, and Flat Track. Technology which was only available to the factory teams is now available to everyone! Full Spectrum batteries are now available to the Ultralight & LSA market. Not FAA Approved for Aircraft use.

PULSE SERIES

PULSE P1 BATTERY - • Save an average of 7 lbs. on a 600cc bike • 130 cranking amps / 2.5 amp hour capacity • Integrated Protection Circuit (IPC) • Heat, impact, and water resistant case • 100% Made in the USA. • Dimensions: 4.5 in (L) x 2.5 in (W) x 3.75 in (H) • Weight: 15.1 oz • Common Applications include: 600cc sportbikes (race trim); Dirt bikes less than 450cc.....P/N 11-10701 ..... **$129.00**

PULSE P2 BATTERY - • Save 7 lbs. on a 1000cc bike • 200 cranking amps / 5 amp hour capacity • Integrated Protection Circuit (IPC) • Heat, impact, and water resistant case • 100% Made in the USA • Dimensions: 4.5 in (L) x 2.5 in (W) x 3.75 in (H) • Weight: 1.6 lbs. • Common Applications include: 1000cc inline 4-cylinder sportbikes; V-Twin sportbikes up to 1098cc.....P/N 11-10702 ..... **$209.00**

PULSE P3 BATTERY - • Save 7 lbs. on a 1200cc bike• 390 cranking amps / 7.5 amp hour capacity• Integrated Protection Circuit (IPC)• Heat, impact, and water resistant case• 100% Made in the USA • Dimensions: 4.5 in (L) x 3.5 in (W) x 3.75 in (H) • Weight: 2.2 lbs. • Common Applications include: 1300cc inline 4-cylinder sportbikes; 1200cc twins; Drag racers using total-loss ignition systems.....P/N 11-10703 ..... **$269.00**

PULSE P4 BATTERY - • Save 10 lbs. over a stock battery with twice the power • 500 cranking amps / 10 amp hour capacity • Integrated Protection Circuit (IPC) • Heat, impact, and water resistant case • 100% Made in the USA • Dimensions: 4.5 in (L) x 3.5 in (W) x 3.75 in (H) • Weight: 3.3 lbs. • Common Applications include: 1300cc inline 4-cylinder sportbikes; 1200cc twins; Drag racers using total-loss ignition systems.
P/N 11-10705 ..... **$329.00**

ODYSSEY DRYCELL BATTERIES



11-01651



11-02233



11-01945

Odyssey batteries, with an eight year design life saves you time and money because you do not have to replace your battery as often. It is also the ONLY battery that is capable of delivering a large number of deep cycles – up to 400 when fully discharged or up to 500 when discharged to 80%. Plus, the battery is specially designed for high vibration applications. Unlike conventional batteries that need to be recharged every six to twelve weeks, the Odyssey battery will maintain up to 50% state of charge after 2 years if stored at room temperature (77°F). At temperatures lower than 77°F, storage times will be even longer. The cranking power of Odyssey batteries is double to triple that of equally sized conventional batteries, even when the temperature is as low as -40°F. Odyssey batteries may be shipped worry free by UPS/ Federal Express or air. 2 Year Warranty.

Part No.	Dimensions	Weight	Cranking Amps	Price
11-08080	6.7" x, 3.90" x 6.89".	13.2	625 for 5 seconds	**$106.67**
11-08081	7/8" x 3-3/16" x 5 1/8"	11.7	545 for 5 seconds	**$137.31**
11-08082	7.0" x 3 3/8" x 5 1/8"	12.6	545 for 5 seconds	**$156.71**
11-02233	7-1/5" x 3" x 6-6/5"	15 Lbs.	680 for 5 seconds	**$150.48**
11-01651	6-9/16"x 6-7/8"x 5-11/16"	24 Lbs.	925 for 5 seconds	**$210.06**
11-01945	73/16"x 31/16"x 69/16"	15 Lbs.	680 for 5 seconds	**$190.30**

YUMICROM BATTERIES



These manifold vented batteries work well in home builts with low amperage requirements, putting out a lot of power for their size and weight. Made by Yuasa General in Reading, Pa. 27.1oz. electrolyte required to fill (not furnished). ***YB14LA2 , 12V, 14AH -*** This model being used in the VariEze & Long-EZ. Easily handles the load of starting a Lyc. 0-235 engine. Size: 5-9/32"l x 3-1/2"w x 6-11/16"h. Wt. 10 lbs.
P/N 11-01847 ..... **$56.75**

YB16-B, 12V, 18AH - Used in the Solitaire sailplane, VariEze, Long-EZ & other homebuilts without starter. Size: 7"lx4"wx6.25"h. Wt: 12.7 lbs
P/N 11-01848 ..... **$50.00**

BATTERY TENDER CHARGER



BATTERY TENDER PLUS - 6V @ 1.25A 12V @ 1.25A. The Battery Tender Plus is a 1.25 amp battery charger designed to fully charge a battery and maintain it at proper storage voltage without the damaging effects caused by trickle chargers. Included is a quick connect harness for hard to reach areas. ****DO NOT USE P/N 11-03015 WITH GILL OR CONCORDE AVIATION BATTERIES.***

Voltage	Amps	Description	Part No.	Price
12Volt	1.25A	Battery Tender Charger	11-03157	**$43.75**



POWER TENDER PLUS - 12V @ 5A 24V @ 2.5A WATERPROOF, Shock & Vibration Resistant, Lightweight (LESS THAN 4 POUNDS), compact charger designed for either portable operation or permanent mounting. Charges and maintains both flooded and sealed, maintenance free, AGM, lead acid batteries. Float / Maintenance function maintains batteries at proper storage voltage without the damaging effects caused by trickled chargers. The Power Tender PLUS is easy to use, it's rugged, its compact, it's packed with power, and it's backed by the reputation of the undisputed battery charger industry leader, DELTRAN. Note: Part does not come the Alligator clips. PN 11-06403. Note: Not for use with Gill or Concorde Aviation Batteries.

Voltage	Amps	Description	Part No.	Price
12Volt	5A	Power Tender Plus	11-03016	**$81.95**
24Volt	2.5A	Power Tender Plus	11-03015	**$79.95**

Power Tender Alligator Clip ..... P/N 11-06403.....**$4.35**

BATTERY TENDER JUNIOR



120 VAC /60 Hz input. Includes Ring Terminals and Alligator Clips with BLACK (6V & 12V) QDC. Note: Not for use with Gill or Concorde Aviation Batteries.
6V, .750 Amps..... P/N 11-05163 .....**$29.85**
12V, .750Amps..... P/N 11-05164 .....**$29.95**

EL

BATTERY CHARGERS - POWER PANELS - CABLE TIES

BATTERYMINDER® INTERNATIONAL "E" SERIES 12V AND 24V BATTERY CHARGERS



Plug 'n Run - No buttons to push! 220-240 Volt versions of the 12-V and 24-V are available. Specific to sealed or wet aircraft batteries only. CE Approved, with easily replaceable cord set to match country of use. Designed in concert with Concorde, Gill and Odyssey. One-year 100% money back guarantee, five-year "no hassle" warranty.

BatteryMINDer E12248-AA-S2..... P/N 11-09379 ..... **$197.95**
BatteryMINDer E12248-AA-S3..... P/N 11-09380 ..... **$197.95**
BatteryMINDer E24041-AA-S2..... P/N 11-09381 ..... **$197.95**
BatteryMINDer E24041-AA-S3..... P/N 11-09382 ..... **$197.95**

BATTERYMINDER® U.S. SERIES 12V AND 24V BATTERY CHARGERS



Plug 'n Run - No buttons to push! Precision-set for Standard Aviation Batteries and using an array of microprocessor controlled sensors. Actively monitor your battery's voltage, amperage acceptance and temperature at all times. When used as a maintainer, it is guaranteed to maximize your battery's life and storage capacity. The temperature compensated long-term float (maintenance) stage can add years of service, and patented full-time high frequency sweep pulse desulfation is designed to reverse and eliminate battery sulfation, the #1 cause of early battery failure. One-year 100% money back guarantee, five-year "no hassle" warranty.

BatteryMINDer 12248-AA-S2 ..... P/N 11-07739 ..... **$179.95**
BatteryMINDer 12248-AA-S3 ..... P/N 11-07742 ..... **$179.95**
BatteryMINDer 24041-AA-S2 ..... P/N 11-07740 ..... **$179.95**
BatteryMINDer 24041-AA-S3 ..... P/N 11-07741 ..... **$179.95**

BATTERYMINDER® NON-AVIATION MODELS

For your car, truck, boat, motorcycle, motorhome golf car, farm equipment, ATV, an more!



5- STAGE CONSTANT CURRENT-VOLTAGE CHARGER / MAINTAINER / DESULFATOR - Microprocessor controlled. For all sealed, AGM, Gell and flooded (wet cell) lead-acid batteries including Optima, Odyssey and Interstate AGMs. Actively monitors your battery's voltage, amperage acceptance and temperature at all times, these chargers work through a series of charging and diagnostics stages. When used as a maintainer, it is guaranteed to maximize your battery's life and storage capacity. The temperature compensated long-term float (maintenance) stage can add years of service, and patented full-time high frequency sweep pulse desulfation is designed to reverse and eliminate battery sulfation, the #1 cause of early battery failure. Not for Aviation. One-year 100% money back guarantee, five-year "no hassle" warranty.

BatteryMINDer 12248 (12V)..... P/N 11-02006 ..... **$142.95**
BatteryMINDer 24041 (24V)..... P/N 11-02007 ..... **$145.95**

ROTAX ELECTRICAL LOW VOLTAGE CUTOUT



LVC 2088 should be used with every Rotax Model 914 aircraft engine to help insure that electrical power is available to power the engine fuel pump under all conditions. Isolates the internal engine alternator from the aircraft electrical system if a low voltage condition develops in the electrical system. This helps insure that the fuel pump continues to operate. The Rotax Model 914 aircraft engine requires an electrically powered fuel pump for operation. The 2088 LVC satisfies the 2 independent power source requirements for the fuel pumps shown in the Rotax Model 914 installation manual. If a low voltage condition develops in the electrical system for any reason, the LVC instantly and automatically disconnects the output of the internal alternator from the electrical buss to assure power is available for the fuel pump. If the low voltage condition is corrected, the LVC will automatically reconnect the alternator. 2088 LVC is enclosed in a water resistant metal box. It should be mounted close to the engine using the tabs on the box.. The unit provides a convenient location for attaching the required 22000uf capacitor, the wiring to the regulator "C" terminal and one of the electrical fuel pumps. The fuel pump wiring is internally fused, so no external fuse is required. An output for an optional warning light is provided. P/N 2088..... **$194.95**

CABLE TIES



This all nylon cable tie is designed to hold cables securely. Bundling strength military requirements. Installs in just seconds.

Part No.	Cat. #	Length	Price
11-04230	L-4-18	4"	**$0.06**
11-04229	L-7-50	7"	**$0.09**
11-04058	L-14-50	14"	**$0.28**

CABLE TIE ASSORTMENT PACK

Cable Tie Assortment (55 pcs.)..... P/N 11-03768 ..... **$5.25**
MS3367-5-9 Cable Tie 5"..... P/N 11-04039 ..... **$0.09**
Cable Ties MS3367-4-9 ..... P/N 11-04230 ..... **$0.06**
Cable Ties MS3367-1-9 ..... P/N 11-04229 ..... **$0.09**
Cable Ties MS3367-2-9 ..... P/N 11-04058 ..... **$0.28**

AEROVOLTZ LITHIUM BATERIES



Aerovoltz Lithium Iron Phosphate batteries are designed to replace the lead acid batteries that currently power most of the two and four cycle engines in Aviation.

Features: Up to 80% smaller than the stock battery. Up to 10 lbs. lighter than the stock battery. Designed, developed, and assembled in the USA. Completely "dry" technology so batteries can be mounted in any direction. Non-toxic and recyclable. Impact and water resistent. No special charger required

Description	Part No.	Price
Aerovoltz Lithium Battery (EVO2-4 CELL)	11-10028	**$99.00**
Aerovoltz Lithium Battery (EVO2-8 CELL)	11-10029	**$156.50**
Aerovoltz Lithium Battery (EVO2-12 CELL)	11-10030	**$179.95**
Aerovoltz Lithium Battery (EVO2-16 CELL)	11-10031	**$269.00**
Aerovoltz Battert Management System Balance Charger (120 volt)	11-10032	**$78.85**

AEROVOLTZ BATTERY CHARGER



The Aerovoltz battery charger system is the only charger on the market designed specifically to work with the Aerovoltz EVO2 battery. The balance mode balances the voltage of each cell or cell pack while charging. The primary advantage of the balance charger is the balance charging funciton.

Features: Plugs directly into the batteries BMS port. Able to balance charge all the cells individually for max power and durability. Can double the expected life of the EVO2 battery. Has Charge, Fast Charge, Balance Charge, and Storage Charge Functions. Specifications: 14.5-16V Balance Charger Kit-120 V. P/N 11-10032 ..... **$78.85**

LIGHT SPORT POWER PANEL



The Light Sport Power Panel was designed for LSA and light aircraft applications. It offers a new degree of flexibility in modern "Glass Panel" equipped aircraft. The electrical power bus is split into three segments including the Main Bus, Radio Bus and the Essential bus. The Radio Bus is switched and filtered. The Essential Bus can wire direct to the Main Bus or easily connected to a back up system such as the Composite Design Power Guard to allow dependable, constant power to critical flight and engine instruments. As with all Composite Design power systems, this panel is rugged, serviceable and dependable.

Specifications:

- 6 Switches: Fuel Pump, Landing Lite, Nav Lite, Strobes, Radio Bus Master, and Cessna type split master for Master Solenoid and Alternator Field.
- 14 Circuit Breakers: Main Bus - Fuel Pump, Landing Lite, Nav Lite, Strobes, Panel Power, Accessories
- Radio Bus (Filtered) Radio 1, Radio 2, Transponder, GPS, Audio Panel
- Essential Bus EFIS#1, EFIS#2, Flight Instruments, Engine Data
- Dimensions & Weight: 2.375"H x 10.5"W x 6.5"D, approx 2.25 pounds.

28V.....P/N 11-09207 ..... **$598.00**
14V.....P/N 11-09206 ..... **$589.00**

KEY WEST REGULATOR



Advanced regulator/rectifier circuit provides steady 13.8 volt output regardless of load. Maximum output 220 watts, 16 amps. 10v signal pulse output for digital or MaxPac® tachs. Accepts AC input from 15 to 100 volts. Can be used with AC strobe. **Features**: * Extremely clean filtered DC output * Electronics designed to deliver 16 amps producing 220 watts * Efficiency: No "consumer" or "dummy" load required for proper operation * A beautiful and rugged lightweight package weighs just 16 ounces and is 3.5 x 2.5 x 1 inch * Protection from the environment: complete epoxy encapsulation to insure all-season operation * Ease of installation: crimp type ring terminals and wiring schematics provided with every unit

P/N 11-03168 ..... **$57.75**

ACS KEYED IGNITION SWITCHES



11-03169



11-03170

MFG BY ACS PRODUCTS CO.

These fine quality switches are being used in many production aircraft such as Cessna, Schweizer, Ayers and Air Tractor. They provide "on" and "off" electrical control of both magnetos on single engine aircraft. The key-operated switches mount from rear of panel in 7/8" dia. hole. Available with or without starter position. Made in the U.S.A.

Experimental aircraft only or 337 Form required for Production aircraft

A-510-5 Without Starter Position., Supplied with switch plate and two keys. (diode not required) ..... P/N 11-03169..... **$104.95**
A-510-2 With Starter Position., Supplied with switch plate two keys. (diode included)..... P/N 11-03170..... **$124.50**



MICROBURST SERIES LIGHTING FROM WHELEN - LED Wingtip and Tail Lighting for Experimental and Light Sport Aircraft. **MB3(Red or Green)** .21 lbs., .45 amp (avg). Forward facing Wingtip Nav, with CometFlash 180° LED-Strobe and rear facing white Nav. **MB2(Red or Green)** .20 lbs., .40 amp (avg). Forward facing Wingtip Nav with MB2G Green CometFlash 180° LED-Strobe. **MB1WT** White, .15 lbs, .35 amp (avg). Nav taillight with CometFlash 180° LED-Strobe. Utilizes same mounting as all (A500/A555 Style).

Description	Part No.	Price
MicroBurst I MB1WT Single Taillight	11-08472	**$199.00**
MicroBurst III Kit MB3K 1 MB3R (R) and 1 MB3G (G)	11-08473	**$398.95**
MicroBurst II Kit MB2K 1 MB2R (R) and 1 MB2G (G)	11-08474	**$299.00**
MicroBurst II with Taillight Kit MB2KWT 1 MB2R (R) and 1 MB2G (G) plus 1 MB1WT Taillight	11-08475	**$499.00**

AEROFLASH NAV/ STROBE LIGHT KITS



These non-PMA'd remote nav/strobe light kits are excellent for ultralights and homebuilts. Kit includes one red light assembly, one green light assembly and two power supplies.

Single flash, 12V kit..... P/N 156-0039-12V **$374.95**
Single flash, 28V kit..... P/N 156-0039-28V **$374.95**
Double flash, 12V kit ..... P/N 11-04762..... **$396.95**
Single flash, 12V kit..... P/N 156-0049-12V **$446.00**
Single flash, 28V kit..... P/N 156-0049-28V **$442.95**
Double flash, 12V kit ..... P/N 11-04763..... **$464.95**

POSISTROBE MINIMAX™



• 2-in-1 Position & Strobe , popular miniature anticollision light for Trikes, PPC, UAVs, ultralights • Extremely lightweight at only 53 grams • 9-32 volt input range • No external power supply or strobe unti, an Aveo world first • Light synchronization feature • Unbreakable Diamidium encapsulation • Exclusive Lifetime Warranty

Red - 9-32V ..... P/N 11-08127..... **$339.00**
White - 9-32V..... P/N 11-08134..... **$339.00**

TRIKEPAK AVEO TRIKE MOUNT SYSTEM



The Aveo Trike Mount Systerm is an extremely lightweight adapter to mount your Aveo lights to your trike or ultralight frame. Mount system versions include adapters for holding the Aveo Wing, Posistrobe, and Powerburst lights.

Features: Aluminum construction with stainless bolts. Extremely lightweight. Hinged at two points to permit quick angular mount adjustment to meet lighting requirements. Aveo Lifetime Warranty. 9-32 volts Aveo lights operation.

For Wing Light .....P/N 11-09976 ..... **$89.00**
For Posistrobe .....P/N 11-09977 ..... **$89.00**
For Powerburst.....P/n 11-09978..... **$89.00**



AVEOFLASHLP™ LSA - WING NAVIGATION/ POSITION/ STROBE LED LIGHTS

The Aurora series AveoFlash LSA™ is the incredibly popular light of the light sport, kit, experimental and ultralight industry. At only 83 grams, and with an extremely aerodynamic shape and minimal footprint, the AveoFlashLP LSA light is now standard on most leading S-LSA and kit planes.

With synchronization as a standard feature, the LSA light is a complete solution for navigation, position and strobe to all international aviation requirements and standards. Available with a variety of mounting adapters and custom composite fairings, the LSA light is extremely easy to install. Encapsulated in the exclusive AveoDiamidium™ formulation, these are virtually unbreakable. Exclusive limited aircraft lifetime warranty there is no risk to ever need to buy another set of wing lights due to LED burnout. Aveo's policy is simple, IF IT FAILS THEY'LL REPLACE IT!

Integrating the most technologically-advanced and brightest LEDs available in the world to the amazing and all-new exclusive AveoOptimizer™ circuitry, the futuristic E-Series are marked as "LP", for "low profile". At a fully 25 mm (1 inch) lower overall height than the 2008 AveoFlash™ lights. Current consumption (for 12V): steady 0.24A flash 1.65A (@ 200ms) ..... P/N 11-07360..... **$668.00**

14 V AVEO POWERBURST LIGHT SET



Less than an inch in height (0.87 inch/22 millimeters), the PowerBurst™ wing light will save you on drag. Aveo's exclusive and highly advanced optics and chromed reflector system, unmatched power and led management circuitry, and famous lowest-drag profile in the industry are all combined into this product. Plus there is a 3 year limited warranty from Aveo on led burnout. Meets ALL DO-160F Environmental Standards These lights are popular for ultralights, kits, sport, LSA and experimental aircraft. PLEASE NOTE: The PowerBurst™ is only for 14 volt applications. Sold as a pair of lights: one green/white, one red/white

P/N 05-04877 ..... **$399.00**

AVEO RED BARON MINI LED LIGHT



The RedBaron Mini™ is a cousin to the RedBaronXP™, the world's smallest and brightest total coverage LED anticollision light. The new RedBaron Mini™ resulted from requests by high-performance racing aircraft, super lightweight UAVs in the defense industry, and aircraft/helicopter manufacturers who wanted an upper and lower anti-collision light due to mounting area constraints. The answer came in this incredible new light, only 27 mm high and only 110 grams in weight. Exceeding all TSO intensity requirements and all DO-160F environmental requirements, the RedBaron Mini™ is now the world's smallest anti-collision light.

White ..... P/N 11-10534 .... **$495.00**
Red ..... P/N 11-10535 .... **$495.00**

EL

The ***SINGLE MAGNUM SMART STROBE*** Driver is a state of the art single strobe light system. There is not another system on the market like this one. It will operate on 10 to 80 volts of AC or DC input power. It can be powered directly from the engine lighting coil (AC) or from a battery (DC) without any change in brightness or its double wink flash pattern at a 74 per min. rate There are NO options to change and NO special equipment needed. This model is a favorite for king post installations and with the PPC flyers. It is also available with either the standard STREAMLINE HEAD or the COMBO STREAMLINE WHITE HEAD. Both are popular for tail mounting. Average current draw is less than 2 Amps. The driver measures 4 ½" X 3 ½" X 1 ½" and weighs 10 ounces.



Smart Strobe Driver Box only - Single Magnum Smart Strobe driver only, without a strobe head.
SS-DO..... P/N 11-05116.....**$110.00**



Single Magnum Smart Strobe with round clear Fresnel Head - The globe style is a Fresnel lens. The head comes with 6' of wire and plug attached.
SS-TM..... P/N 10-01609.....**$149.00**



Streamline Model with Driver and Streamline Head - Includes 25' of 3 conductor wire, plug, pins and mounting hardware (includes adaptor plate for curved surface mounting if needed).
SS-SLM ..... P/N 10-01611.....**$149.00**

EL



SINGLE MAGNUM SMART STROBE DRIVER with a Round Taillight Strobe - Includes 25' of wire and mounting hardware.
SS-TL-STR ..... P/N 11-07345.....**$198.95**

STREAMLINE COMBO Head, White Led & Strobe Combination - Includes 25' of 5 conductor shielded wire, plug, pins and mounting hardware (includes adaptor plate for curved surface mounting if needed). SS-SLCW P/N 11-05114..... **$239.95**



ROUND TAILLIGHT COMBO Head - White Led & Strobe Combination Includes 25' of wire and mounting hardware.
SS-TL-L/S..... P/N 11-07346.....**$231.95**

The ***DOUBLE DUAL MAGNUM STROBE*** Driver is available in two models, the DDM 12 volt DC model and the SDDM smart model. The SMART Model simply means it can be powered by 10 to 80 volts of AC or DC. The 12 volt model is powered by the 12 volt electrical system of your aircraft. The strobe bulb fires a rapid double flash on one head and then the other in an alternating pattern. The first flash catches the eye and the second identifies your position. Total flash rate is 74 per min. Average current draw is less than 2 Amps. The driver measures 4 ½" X 3 ½" X 1 ½" and weighs 10 ounces.



Double Dual Magnum Driver Box Only - 12VDC Driver Box Only 12 volt Model DDM-DO
P/N 11-05118.....**$139.95**



Double Dual Magnum Smart Driver Box Only - Smart Model (10 to 80 volts of AC or DC)SDDM-DO
P/N 11-05117.....**$160.00**



Double Dual Magnum Driver Box with round clear Fresnel Heads - Two Round Fresnel Heads, driver, 6' of 3 conductor wire, plugs, pins, and installation hardware (Tang Mount used on PPC, TRIKES, or where bolting heads to frame is desired).

STANDARD - 12 VDC Model with /ROUND FRESNEL heads DDM-RH
P/N 10-01610.....**$228.00**

SMART - with /ROUND FRESNEL headsSDDM-RH
P/N 11-04956.....**$247.95**

Double Dual Magnum Driver Box with standard streamline Heads - Two Streamline Heads, driver, 50' of 3 conductor wire, plugs, pins, and installation hardware (includes adaptor plates for curved surface mounting if needed).

STANDARD 12 volt Model with Driver and Two STANDARD STREAMLINE Heads. ..... P/N 10-00824.....**$228.00**

SMART - model with with Driver and Two standard streamline Heads
SDDM-SL..... P/N 11-04995.....**$247.50**



Two ***STREAMLINE COMBO*** heads, driver, 50' of 5 conductor shielded wire, plugs, pins, adaptor plates (for curved or flat surface mounting) and installation hardware. SONEX Aircraft adapter plates available at no additional charge when mentioned at time of purchase.

COMBO - 12 VDC Model with Streamline Combo Heads DDM-SLC
P/N 11-04835.....**$379.00**

SMART - with Streamline Combo Heads SDDM-SLC
P/N 11-04957.....**$397.95**

KIT #1 IS A SET OF SPECIAL HEADS - For builders of RV 7, 9, & 10



aircraft or any other kit that has like mounted wing lights. Due to the wing light configuration on these aircraft, the white rear facing LED on the regular Combo head is of no use, because it can't be seen from the rear. A white position or tail light is then needed. These are strobe and red / green position light equipped heads No white LEDs, a 2 strobe driver box, that fires both wing strobes in an alternating double wink pattern, a white round LED equipped tail light to be mounted at the rear of the aircraft. 50 feet of 5 conductor shielded wire for the wings, plugs, pins and mounting hardware. Total power draw for this system is about 2 ½ Amps at 14 volts
. P/N 11-05833.....**$465.00**

The ***TRIPLE MAGNUM 3 LIGHT STROBE*** Driver is a 12 volt DC operated system. It fires 3 strobe heads in a double wink pattern. The two wing tip lights alternate between left and right while the tail, or third light is synchronized to flash every time one of the wing tips are flashing. Resulting in about 140 flashes per minute. Driver box measures 4 ½" X 7" X 1 ½", weighs 17.2 ounces. Current draw with 3 standard heads is about 3 amps. If using two COMBO heads and one standard head it is about 3 ¾ Amps .



Triple Magnum 3 Light DRIVER BOX ONLY - 12 volt Model TRI3-DO
P/N 11-01355.....**$230.00**



TRI 3 DRIVER with 3 STANDARD HEADS, Streamline or Round. - with 3 standard SL or ROUND FRESNEL heads, please specify. Complete with 75' of wire, plugs, pins, adaptor plates (for flat or curved surface mounting) and all the installation hardware.
TRI3-SL..... P/N 11-01829.....**$375.00**



TRI 3 DRIVER with 2 COMBO HEADS & 1 STREAMLINE, ROUND FRESNEL or TAIL-LIGHT HEAD - The TRIPLE MAGNUM 3 light system with 2 COMBO & a choice of either 1 Standard Streamline Head, 1 Round Fresnel head or 1 Round Tail Light without LEDs (Additional cost for the Round Tail Light) for the third head, please specify. Complete with 75' of shielded wire, plugs, pins, adaptor plates (for flat or curved surface mounting) and all the installation hardware. (Please specify choice at time of order)
TRI3-SLC..... P/N 11-05125.....**$579.95**



TRI 3 DRIVER with 3 COMBO HEADS - The TRIPLE MAGNUM 3 light system with 3 COMBO heads, please specify Streamline Combo or Round Tail light Combo for third head. Complete with 75' of shielded wire, plugs, pins, adaptor plates (for flat or curved surface mounting) and all the installation hardware. The tail COMBO heads both have a strobe and white LEDs to be used as a STROBE and WHITE tail light.
TRI3-SLCW ..... P/N 11-05119.....**$599.95**



KIT #2 IS A SET OF SPECIAL HEADS - For builders of RV 7, 9, & 10 aircraft or any other kit that has like mounted wing lights. Due to the wing light configuration on these aircraft, the white rear facing LED on the regular Combo head is of no use. A white position or tail light is then needed. They are STROBE and RED / GREEN Position light equipped heads WITHOUT the white LEDs, a 3 strobe driver box, that fires both wing strobes in an alternating double wink pattern and a third STROBE and LED equipped round tail light for mounting at the rear of the aircraft. The tail strobe fires in sync with each wing. Also, included is 75 feet of 5 conductor shielded wire, plugs, pins and mounting hardware. Total power draw for this system is about 4 Amps at 14 volts.
TRI3-RV..... P/N 11-05834.....**$584.00**

KUNTZLEMAN REPLACEMENT PARTS AND ACCESSORIES

Standard Streamline Head Assembly - Silicon and lexan head measures 3-1/4" x 1" and weighs 1.8 ounces each. (bulb unit, clear lens, adapter plate, 25 feet wire, plug, pins, hardware and heat shrink) SL-HA
P/N 11-05127.....**$49.95**

Standard Streamline Bulb Unit - Less lensSL-BU
P/N 11-05128.....**$39.95**

Strandard Streamline Lens Only - SL-L. P/N 11-05130.....**$9.95**

Round head Assembly - Round clear Fresnel lens. Measures 2-1/2" dia. at the base and 3-1/2" tall. Weighs 6 ounces, and standard 6 ft. wire and plug installed. RND-HA -CLEAR ..... P/N 11-05135.....**$39.95**

Round Clear Fresnel Lens - RND-L..... P/N 11-05139.....**$9.95**

Round Wire Bulb Unit - Works on all Magnum drivers.
RND-3WBU - 3 Wire.... P/N 11-05137.....**$29.95**

Combo Streamline Head Assembly - Fitted with LED position lights. Measures 3-1/4" x 1" and weighs 2.8 ounces. 12 volt LEDs draw only (complete 2 head & wire) SL-HAC-S..... P/N 11-07465.....**$249.95**

SL-HAC-G - Green & White aft LEDs(1 head & wire)
SL-HAC-G..... P/N 11-07466.....**$89.99**
W/O Strobe Bulb SL-HAC-WG ..... P/N 11-07348.....**$89.99**

SL-HAC-R - Red/Wh aft LED SL-HAC-R.. P/N 11-07467.....**$129.95**
W/O Strobe Bulb SL-HAC-WR ..... P/N 11-07349.....**$89.99**

SL-HAC-W - White aft LEDsSL-HAC-W ... P/N 11-07469.....**$129.95**
W/O Strobe Bulb SL-HAC-W..... P/N 11-05132.....**$89.00**

Combo Streamline - REPLACEMENT Strobe Bulb Unit Only, fits SL and ROUND Combo tail light heads..... P/N 11-05133.....**$39.95**

Combo Streamline - LENS Only SL-LC... P/N 11-05134.....**$9.95**

Round Taillight with Strobe Only..... P/N 11-05805.....**$92.75**
Round COMBO Taillight..... P/N 11-05804.....**$129.95**

Round Taillight with LEDs TL-LED..... P/N 11-05806.....**$96.75**
Strobe Head Plug Set - SH-PS..... P/N 11-05140.....**$2.50**

Inline Plug Set - IL-PS..... P/N 11-05141.....**$6.50**

Trike Mount Adaptor Kit - TRK-MT..... P/N 11-05143.....**$27.95**

3 Wire Cable Extension - EXT-3W..... P/N 11-05142.....**$10.85**

Mounting Kit - RND-MK..... P/N 11-07347.....**$27.95**

WIG-WAG circuit and a DPDT center off switch to operate
1 or 2 LTRs in a wig-wag mode..... P/N 11-08419.....**$48.75**

EL



KUNTZLEMAN SELF CONTAINED 12 VDC STROBE

The SC103 STROBE is a self contained 12 volt DC operated light designed specifically for Ultralight use where an external 12 vdc power source (battery) is available. Its physical size is the smallest of any self contained strobe light in its class. Measuring2 ½" dia. At the base and 4" tall. Using the same xenon flash tube and Fresnel lens that is currently being used on its big brother the Single Magnum Smart Strobe. The brightness has been actual flight tested before sunset and is visible at 3 statute miles (FAR 103 requirement). The flash is in a single wink pattern at about 42 per minute, power consumption is 500 ma (1/2 Amp) and it weighs only 7 ½ ounces. The SC103 is mounted with a 1/4 X 20 stud located in the center on the bottom of the unit. Also, a stainless steel tang is supplied. Its rugged construction makes it a great economical stand alone unit. P/N 11-04098..... **$99.85**

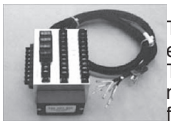
SHOCK MOUNT - Designed to be used when mounting the SC103 strobe in an area of high vibration. P/N 11-06251..... **$14.95**



KUNTZLEMAN LANDING/TAXI/ RECOGNITION (LTR) LIGHTS

LSA and EXPERIMENTAL aircraft line of lights. Made in the USA, called the LTR which stands for Landing-Taxi-Recognition. The LTR consists of 9 extremely bright LEDs, focused through special lenses. This results in a white beam of light that has been measured with a light meter to be 2 1/2 times the brightness of a 55 watt halogen lamp while drawing 1/3 the current and 1 1/2 that of an HID lamp at about the same current. Powered by 12 to14 volts DC it uses only 1.35 Amps of power. The LTR dimensions are 3" Dia. X 1" deep and weighs less than 6 ounces. Flashing it on & off can be accomplished with an led flasher from your local auto parts store. You must see the LTR in operation to believe the light output. Sold with a money back satisfaction guarantee. P/N 11-06854.....**$229.00**

EL



KUNTZLEMAN HOT BOX

The HOT BOX is a complete electrical system intended for use with an electric starter equipped engine. The box contains a heavy duty regulator, starter solenoid, custom length cables, labeled terminal strips, a fuse panel and many more features.

Hot Box with Regulator HB..... P/N 11-05144.....**$240.00**
Hot Box no Regulator HB ..... P/N 11-05145.....**$208.95**

EPL POSITION LIGHTS & STROBES



technology allows excellent navigation lights with only 10% of the input power, compared with conventional ts. The casting in a high-optical plastic makes the EPL sition Light) absolutely insensitive against water, vibra- environmental influence.

of the output is much higher than with conventional ulbs. The self-warming of the EPL is low and can be safe. To avoid overheating, the heat balance is controlled As a precaution you must pay attention to ventilation with ed, so that no heat accumulation within the casing can appear. This may be assumed by suitable constructive measures. These lights are manufactured in Germany.

EPL Wing Tip Light Set(1 red, 1 green)..... P/N 11-05120.....**$349.95**
EPL Tail Light ..... P/N 11-05121.....**$229.50**
EPL Wing / Tail / Strobe Light..... P/N 11-05122.....**$358.95**
EPL ELL 4 Light Set..... P/N 11-05123.....**$1,070.00**

AEROLEDS PULSAR NAV/ STORBE



An all LED navigation/position/ strobe designed for the wingtips of an aircraft and exceeds 400 effective candela for the anti-collision light. The Pulsar is the same size as the traditional forward and rear facing position light with anti-collision. The Pulsar does not require an external power supply and will retrofit the mounting footprint of traditional legacy lighting. Specifications: Voltage Range: 9-36 VDC, Length: 5.6", Current Draw at 12VDC: 1.7 Amp Avg / 4.5 Amps Peak Width: 1.8", Power Consumption: 20 Watts Avg, Depth: 1.5", Strobe Power Supply: Built In, Weight: 4 Oz, Strobe Synchronization: Built In, Heat Sink Material: Clear Anodized Aluminum, Thermal Protection: Built In, Lens Material: Polycarbonate, Nav/Position Light: Exceeds 100 candela, Screw Mount: 3x 6-32 Machine Screws, Strobe: Exceeds 400 effective candela, Rated , Temperature Range: -55C to +70C

P/N 11-09349 .....**$985.00**

AEROLEDS SUNRAY PLUS LANDING LIGHT



The SunRay Plus is a wing-mounted LED (Light Emitting Diode) landing light with a built-in wig wag feature in addition to its standard operation as a landing/taxi light. The SunRay Plus is a very intense light source that uses 4 high power LED's to produce up to 1,000+ lumens of light and 30,000 candela using 10 watts of power.

Each SunRay Plus light uses less than half the power of an equivalent 55 watt halogen light while producing more usable light in a more narrow beam. The LED light source last up to 50,000 hours of constant operation, so you will never have to replace this light once it has been installed. It will outlast both Halogen and HID lamps. The SunRay Plus is protected against overheating with a built in protection circuit, is protected from lightning transients and ESD, voltage spikes, reverse voltage, and undervoltage conditions.

Polycarbonate leading edge windows are commonly used with wing-mounted landing lights, and are typically available for most airplane types from a number of third-party suppliers. This light is small enough to fit in the wingtip cutout found in Van's RV kits.

Specifications: Power: 17 Watts, Voltage: 9-36 VDC, Lumens: 1,000+, Lens Material: Polycarbonate, Candela: 25,000+, Beam Angle: 10 Degrees, Rated Life: 50,000 Hours, Temperature Range: -55C to +70C, Weight: 5 oz, Dimensions: 2.7" x 2.7" x 1.7" P/N 11-09348 .....**$287.95**



AEROLEDS SUN SPOT 36LX LED LIGHT

SunSpot LX is designed as a LED drop in replacement for the existing GE4509 PAR 36 aircraft lights. SunSpot LX is available in a landing or taxi light. SunSpot LX landing light projects 45,000 candela using 45 Watts/3 AMPs max of power. SunSpot LX taxi light projects 10,000 candela. Mounts with existing ring clamp. Power consumption: 45 Watts Max; Current Draw at 12VDC: 3 Amps Max Available in taxi or landing lights. Clamp Mount: Par 36 Ring Clamp. SunSpot has the same great design features as other aircraft light designs: Wide Input Voltage Range (9VDC-36VDS) Over-temp Sense Protection; ensures our 50,000 hour lifetime guarantee. Low-voltage Sense (shuts down half the LED's in emergency, low voltage conditions)They strongly recomend adding the Pro-tech lens coating which comes with a lifetime warranty on the lens for damage caused from rocks and debris. PMA Pending: Power: 45 Watts, Voltage: 9-36 VD, Lumens: 2,400, Weight: 10 oz, Dimensions: 4.2" x 4.2" x 1.5"

Landing Light..... P./N 11-09351.....**$383.00**
36LX Taxi Light..... P/N 11-09352.....**$325.00**
They strongly recomend adding the Pro-tech lens coating which comes with a lifetime warranty on the lens for damage caused from rocks and debris..... P/N 11-08143.....**$34.50**



AEROLEDS SUN SPOT 36HX LANDING LIGHT

LED drop-in replacement for your existing GE4509, PAR36 aircraft lights. It comes with an integrated "wig-wag" or "pulse" feature built into the light that is recommended to be used throughout your flight to increase recogniton from other pilots. Landing light projects 45,000 candela using 45 Watts/3.75 AMPS max of power. Taxi light projects 15,000 candela. Power consumption: 45 watts Max; Current Draw at 12VDC: 3.75 Amps Max Available in taxi or landing lights. Clamp Mount: Par 36 Ring Clamp. Built in Wig/Wag (stand-alone or synchronous with any of our other products). Over-temp Sense Protection; ensures our 50,000 hour lifetime guarantee. Low-voltage Sense (shuts down half the LED's in emergency, low voltage conditions)

Specifications: Power: 45 watts, Voltage: 9-36 VDC, Lumens: 3,600 Weight: 10 oz, Dimensions: 4.2" x 4.2" x 1.5".PMA APPROVED

Landing Light..... P/N 11-09353.....**$437.00**
36HX Taxi Light..... P/N 11-09355.....**$489.95**
They strongly recomend adding the Pro-tech lens coating which comes with a lifetime warranty on the lens for damage caused from rocks and debris. ..... P/N 11-08143.....**$34.50**



AEROLEDS SUN SPOT 46 LED LIGHT

Power: 85 Watts . Voltage: 10-36 VDC. Lumens: 6,500+. Weight: 20 oz. Dimensions: 5.6" x 5.6" x 2.3".

46 Landing Light..... P/N 11-09347.....**$849.00**
46 Taxi Light..... P/N 11-09350.....**$895.00**

AEROLEDS SUN SPOT 64 LED LIGHT



Over 17,000 lumens, drawing 224 watts. Allows the aircraft to be visible from 10 miles away, day and night. Specifications: Voltage Range: 15-36VDC, Current Draw at 28VDC: 8 Amps Max, Power Consumption: 224 Watts Max, Thermal Protection: Built In, Landing Lens Candela: 290,000+, Taxi Lens Candela: 105,000+ Landing Beam Angle: 10 Degrees Taxi, Beam Angle: 10 Deg up, 40 Left/Right, Total LED Lumens: 17,000+, LED Count: 8, Height: 8" Round, Width: 8" Round, Depth: 2.7", Weight: 35 Oz, Heat Sink Material: Black Anodized Aluminum, Lens Material: Polycarbonate, Clamp Mount Option: PAR 64 Ring Clamp, Rated Life: 50,000 Hours, Temperature Range: -55C to +70C..... P/N 11-09458 ..... **$1,586.00**

SUNBEACON B LED / RED



The 01-1200-A Sunbeacon B is an all LED red 360 degree beacon that exceeds 150 effective candela. It is suitable for mounting on the top or bottom of a fuselage, or on the vertical stabilizer to provide a highly visible red beacon that can be seen from any direction around the aircraft.

Sunbeacon Red ..... P/N 11-10475 ..... **$868.00**
Sunbeacon White ..... P/N 11-10476 ..... **$985.00**

AEROLEDS MICROSUN LANDING LIGHT



The MicroSun is a wing-mounted LED (Light Emitting Diode) landing light with a built-in wig wag mode in addition to its standard operation as a landing/taxi light. The MicroSun is a very intense light source that uses 12 high power LED's to produce up to 1500+ lumens of light using 20 Watts of power. The MicroSun is equivalent to anAeroSUN 1600

P/N 11-07779 ..... **$334.50**

AEROLEDS SUNTAIL TAIL LIGHT



SunTail™ is designed to perform the tail position/strobe functionality on the rudder of the aircraft. The design addresses all the shortcomings of the existing line of competitive products and can synchronize its strobe with any of the AeroLEDs' wingtip family of nav/strobe and nav/position/strobe products. Suntail does not require an external power supply and will retrofit the mounting footprint of legacy lighting. SunTail™ was intended to meet or exceed all of the FAA requirements for certification.

White Experimental ..... P/N 11-07781 ..... **$369.00**
Red Experimental ..... P/N 11-10474 ..... **$369.00**
White Certified ..... P/N 11-10479 ..... **$464.95**

1600 LED LANDING LIGHT



The 1600 is a wing-mounted LED (Light Emitting Diode) landing light with a built-in wig wag mode in addition to its standard operation as a landing/taxi light. Made from extruded aluminum, is a very intense light source that uses 8 high power LEDs to produce up to 1600 lumens of light using just 24 Watts of power. The product is ideal for closed or open environments. Each uses one fourth the power of an equivalent 100 Watt halogen light while producing as much usable light. The LED light sources last up to 50,000 hours of constant operation. The unit is completely sealed and is very rugged. The 1600 is protected against overheating with a built in protection circuit, is protected from lightning transients and ESD, voltage spikes, reverse voltage, and undervoltage conditions. For installation on experimental category airplanes.

Sold each..... P/N 11-05797 ..... **$324.95**
Mounting Kit (Single) ..... P/N 11-08144 ..... **$19.95**
Pro-Tech Lens Coat ..... P/N 11-08143 ..... **$34.50**

AEROLEDS NS90 WINGTIP STROBES



An all LED navigation/strobe designed for the wingtip cutouts of an aircraft and project a 90 degree light coverage for the experimental market. NS90 does not require an external power supply and will retrofit the mounting footprint of legacy lighting. It is recommended that the SunTail be sold with the NS90 for aft position/strobe to enhance recognition. Specifications: Power: 10 Watts, Voltage: 9-36 Vdc, Weight: 4oz. P/N 11-08170 ..... **$759.00**

AEROLEDS NS180 WINGTIP STROBES



An all LED navigation/strobe designed for the wingtips of an aircraft and projects 180 degree light coverage. NS180 does not require an external power supply and will retrofit the mounting footprint of legacy lighting. It is recommended that the Suntail be sold with the NS180 for aft position/strobe to enhance recognition. Power: 18 Watts. Voltage: 9-36 Vdc. Weight: 4oz

Experimental..... P/N 11-08171 ..... **$868.00**
Certified ..... P/N 11-10477 ..... **$1,079.00**

AEROLEDS NSP WINGTIP STROBES



An all LED navigation/position/strobe designed for the wingtips of an aircraft and project a 180 degree light coverage that exceeds 400 effective candela for the anti-collision light. NSP does not require an external power supply and will retrofit the mounting footprint of traditional legacy lighting.

Experimental..... P/N 11-08172 ..... **$895.00**
Certified ..... P/N 11-10478 ..... **$1,122.00**

AEROLEDS PULSAR EXP STROBES



All LED navigation/position/strobe designed for the wingtips of an aircraft and projects a 180 degree light coverage. ExP does not require an external power supply and will retrofit the mounting footprint of legacy lighting. Specifications: Voltage Range: 9-36VDC, Current Draw at 12VDC: 1 Amp Avg / 2.5 Amps Peak, Power Consumption: 13 Watts Avg, Strobe Power Supply: Built In, Strobe Synchronization: Built In, Thermal Protection: Built In, Position Light: FAR Compliant, Strobe: FAR Class 1 Equivalent, LED Count: 16, Length: 5.63", Width: 1.85", Depth: 1.3", Weight: 4 Oz, Heat Sink Material: Clear Anodized Aluminum, Lens Material: Polycarbonate, Screw Mount: 3x 6-32 Machine Screws, Rated Life: 50,000 Hours, Temperature Range: -55C to +70C

P/N 11-06577 ..... **$849.95**

AEROLEDS RV KITS



RV KIT OPTION 1:

Pulsar NS90 Pair (Nav/Strobe for wingtip cut out), SunTail (Position/Strobe). Requires NO POWER SUPPLY.

P/N 11-09921 ..... **$1,129.00**

RV KIT OPTION 2:

Pulsar NS90 pair (Nav/Strobe for wingtip cut out), SunTail (Position/Strobe), Two 1600s landing lights for the leading edge. Requires NO POWER SUPPLY. P/N 11-09922 ..... **$1,695.00**

RV KIT OPTION 3:

Pulsar NS90 pair (Nav/Strobe for wingtip cut out), SunTail (Position/Strobe), Two Sunray Plus landing lights for wingtips. Requires NO POWER SUPPLY P/N 11-09923 ..... **$1,595.00**

RV KIT OPTION 4:

Pulsar ExP pair (Nav/Position/Strobe), Two 1600 landing lights for the leading edge. Requires NO POWER SUPPLY

P/N 11-09924 ..... **$1,395.00**

EL

ICOM A210 COMM TRANSCEIVER



Note: Unit is not TSO'd (non-certified)
A210 25 Comm Transceiver (replaced version A210 21). New version is now capable of 25kHz and 8.33kHz channel pitch. The new A210 25 will use the CS A210 version 1.3. Older software will not work for programming the new versions. The software is backwards compatible. Innovative airband that's easier to install and see in more places! Large, bright OLED display offers many advantages in brightness, vividness, high contrast, wide viewing angle and response time compared to a conventional display. Easy channel selection allows you to monitor two channels simultaneously. GPS memory function. 12V/24V DC power source. Intercom functions.

Description	Part No.	Price
ICOM A210 Panel Mount	11-05618	**$1,199.00**
ICOM A210M Mobile Mount	11-05836	**$1,320.00**
ICOM HM-176 Microphone	11-06208	**$142.95**

ICOM IC-A24 NAV/COM



Easy To Use While Flying - Simple one-handed operation is the most essential feature of the IC-A24. The well labeled, large keypad provides user friendly operation. The large display shows both letters and numbers and is easy to see, making for fast frequency recognition. The display is backlit, and so is the keypad. The light stays on until you turn it off - a very handy feature for flying at night! "Flip-Flop" Channel Recall - The IC-A24 stores the last 10 channels used. You can easily recall those channels by pushing the "flip-flop" recall buttons on the front panel. It is convenient for switching between several channels, such as Nav and Com channels. VOR Navigation - The IC-A24 has VOR navigation functions.
IC-A24 Nav/Com (110V) - Includes Nicad battery, wall charger, belt clip, carrying case, headset adapter & handstrap. ...P/N 11-02942 .. **$305.00**
IIC-A24 Nav/Com (220V) .....P/N 11-04355 .. **$305.00**

AV

ICOM IC-A6 COM



Simple one-handed operation is the most essential feature of the IC-A6. The well labeled, large keypad provides user friendly operation. The large display shows both letters and numbers and is easy to see, making for fast frequency recognition. The display is backlit, and so is the keypad. The light stays on until you turn it off. The IC-A6 stores the last 10 channels used. You can easily recall those channels by pushing the "flipflop" recall buttons on the front panel. External DC Power Jack - An external DC power jack allows for operation with the wall charger or the cigarette lighter cable. When the battery pack is installed, simultaneous charging during operation is also possible. Water Resistant Construction - The water resistant construction provides reliable operation in wet conditions. Features: • 200 memory channels (10 banks of 20 channels) allows you to load in up to 10 separate flight plans. 6 character alphanumeric for channel names. • Dedicated 121.5 "emergency" key. • All NOAA weather channels preprogrammed. • Automatic Noise Limiter (ANL) built in for noise reduction. • Icom's exclusive front panel programmable side tone allows you to set the correct side tone level for almost any headset • Dims: 2-1/8" x 5-3/32" x 1-13/32"

IC-A6 Com (110V) - Includes Nicad battery, wall charger, belt clip, headset adapter & handstrap. ..... P/N 11-02944 ..... **$255.00**
IC-A6 Com (220V) ..... P/N 11-03178 ..... **$273.95**

AR-108 AIRBAND SCANNER



AR-108 is a full-featured handheld Air-Band Scanner with weather channels. The AR-108 is small, rugged and compact. The features include 10 weather channels; 9-digit/24 icon backlit LCD display; 99 programmable memory channels; selective channel steps; scans from either the pre-programmed memory channels or the entire aviation frequency band; key lock; key beep tone on/off; battery power saver; powered by 2 "AA" batteries. Includes: scanner, antenna, beltclip and manual. 1yr warranty.
P/N 11-18505..... **$89.00**

Accessories
AR-108 Protective Case..... P/N 11-04997..... **$12.80**

SKYCOM 200E - 2 PLACE PORTABLE INTERCOM



Portable & Compact • Pilot/Co-Pilot Volume Controls • Adjustable Squelch Circuit • Fail Safe Mode • Easy Battery Access • Powered by 9V Battery • 25-30 Hours Battery Life

SkyCom 200 2-Place Intercom
P/N 11-11860..... **$96.50**
SkyCom 200 4-Place Intercom
P/N 11-11865..... **$118.95**

SKYCOM 400 PORTABLE INTERCOMS – features dual volume controls, pilot/crew/pass, pilot/co-pilot isolate, auxiliary music input & 9V battery or cigarette liter operation.
SkyCom 400 4-Place..... P/N 11-11875..... **$149.95**

FLIGHTCOM IISX PORTABLE INTERCOM

The IIsx is the world's most popular 2-place, portable intercom. The modular design offers expansion capability to the backseat if needed. * Expandable to 4-place portable with optional SR-4 expansion module *



Auxiliary inputs and outputs for music or recording flight information * Low-battery indicator and pilot isolate * Uses aircraft power or 9-volt battery
Flightcom IISX 2 place includes: • IISX Intercom • Cigarette lighter adapter • Co-pilot transmit cable
Flightcom IISX 4 place includes: • All parts in the 2 place • SR-4 expansion module

Flightcom IISX 2 Place..... P/N 11-08700..... **$99.00**
Flightcom IISX 4 Place..... P/N 11-08710.... **$148.95**
SR-4 Remote Expansion module..... P/N 11-04260..... **$46.65**

FLIGHTCOM 403LSA INTERCOM



2-place stereo activated intercom enhances the fun of flying, as well as safety, by optimizing communication clarity. Features include 2-place capability, instant music muting, and pilot isolate so you can focus on your flight. Easy to use and designed to fit almost anywhere in the panel. Switches provided in installation kit allow individual headphone positions to select either stereo or mono mode. Weight: 5.0 oz. Size: 5 in. L X 2.4 in. W X 1.2 in. H Power Requirements: 0.16 amp, 12-28 VDC
403LSA P/N 11-07871 ..... **$189.00**

SOFTCOMM PORTABLE INTERCOMS



These top quality, economical intercom systems are perfect for any type aircraft and are compatible with any standard headset. Features include automatic on/off power, panel controls for volume and gain and a pilot isolate switch (ATC-4 only). The intercoms are 9V DC portable or panel mountable with pilot and copilot transmit as a standard feature. These intercoms can be used with other equipment to record instructions or play cassette music. The new model of the ATC-2 has reduced size and weight, and a front-panel mounted PTT switch. The improved ATC-4 and ATC-6 also have a new dual transmit design. All units have aux power cord and stereo cable. With pilot isolate and push-to-talk switch. Model ATC-2T is a 2-place portable intercom designed for the student pilot. It has a recording feature that allows all CFI and ATC instruction to be recorded on a standard cassette player for future study. It is 9V battery powered and is compatible with all general aviation headsets and radios.

2-Place Portable (mono) ATC-2Y.....P/N 11-05818 ..... **$176.95**
4-Place Portable (mono) ATC-4Y.....P/N 11-05819 ..... **$184.95**
4-Place Portable (stereo)ATC-4S.....P/N 11-05905 ..... **$211.95**

SOFTCOMM INTERCOMS FOR ULTRALIGHTS



These Softcomm Intercoms are specially designed to operate with today's transceivers in mind. The ATC-2I models are full featured intercoms with Record-In and Record-out, a PTT switch mounted in the face place and a "AUX power" input for using aircraft power instead of the 9 VDC battery(S), Listen to CB's, CD players and AM/FM radios while in flight. Features music "MUTE" circuit, volume control and "squelch" adjustment. Housed in a rugged ABS case with a space for 2 batteries, these intercoms are compact and fully portable.

Model	Description	P/N	Price
ATC-2I-A23	Icom, IC-A23, IC-A5	11-02217	**$175.95**
ATC-2I-A20	Icom, Delcom and Bendix King radios	11-07700	**$173.95**
ATC-2I-A22	Icom's A-22 compact transceiver	11-07710	**$173.95**

SKYCOM & SKYPRO HEADSETS


P/N 11-09098

SKYCOM I SERIES - Was first offered over 10 years ago and is designed around the traditional, oval-shaped headset design used for over 40 years in aviation. It features a steel headband, large headpad, and metal yoke/pivot system. Earseals mount around a protruded flange and are easily replaceable. The reversible boom mounts on the side of the cup and offers two styles on the models offered.

All models offer electrets N/C mics and and a one year warranty. The ANR model offers over 15dB of additional cancellation using a detachable 9 volt battery module

Skycom 40-A: 18 oz, 24 dB ..... P/N 11-09099..... **$89.95**
Skycom 80-A: 18 oz, 23 dB ..... P/N 11-09098..... **$229.95**
Skycom ANR: >15 dB ANR..... P/N 11-02214..... **$129.00**

REPLACEMENT EAR SEALS

These seals fit SKYCOM H-40A, SKYCOM ANR, and SKYPRO H-80A headsets.

Replacement Gel Ear Seals..... P/N 11-04680.... . **$24.95**/pr.
Replacement Foam Ear Seals. ..... .P/N11-04681..... **$11.95**/pr.

HEADSET/INTERCOM PACKAGES

SKYCOM PACKAGE #1

• 2 Skycom H-40A Headsets • 1 Skycom 400 Intercom (portable) • Headset Bag • Push-To-Talk Switch..... P/N 11-11885 ..... **$378.95**

SKYPRO PACKAGE #2

• 2 Sky Pro Headsets • 1 Skycom 400 Intercom (portable) • Headset Bag • Push-To-Talk Switch ..... P/N 11-11890 ..... **$447.95**

DAVID CLARK H10-13.4 HEADSET



Provides David Clark quality without the hot spots, clamping, or weight discomfort. Features a certified noise reduction rating of 23 dB and weighs only 13.4 oz. Drastically reduced headband force, new soft air-flow pillow headpad, flo-fit gel ear seals, M-7A noise cancelling electret mic, and low profile volume controls with detect settings. 5 yr warranty.

P/N H10-13.4 ..... **$306.90**
P/N H10-13.4S (stereo) **$311.55**
P/N H10-13H (Helicopter, 5ft. coiled cord) **$320.85**

SENNHEISER S1 PASSIVE HEADSET



Highest performance, outstanding wearing comfort, feature packed, and state-of-the-art design – the new Sennheiser S1 Passive is the ultimate passive aviation headset.

Highest security is ensured by Sennheiser's renowned sound quality, ActiveGardTM and passive noise attenuation for clear communications. The auto mute function automatically switches off your music or cell phone calls during ATC communication. Adjustable contact pressure and a special sunglass zone provide the perfect balance between comfortable fit and optimum passive noise attenuation. The state-of-the-art design, powered by BMW Group DesignworksUSA, makes the S1 Passive as good looking as it is comfortable - even on the longest flights.

P/N 11-10744 ..... **$369.00**

FLIGHTCOM 4DX CLASSIC



The 4DX Classic is an entry-level headset with classic Flightcom ruggedness. With an easy-to-position wire articulated boom and a ventilated foam rubber headpad and combined liquid and foam ear seals, the 4DX Classic is comfortable and affordable. Noise canceling electret microphone • Single-volume control • Stereo/mono switchable • NRR 24dB • Weighs 16.9 ounces • Mic muff and cloth ear seal covers included • Three-year warranty

P/N 11-17110..... **$99.00**

COMTRONICS HEADSETS



MODEL-3100 HEADSET - Comtronics Model-3100 Headset has a 34 dB noise attenuation rating making it one of the quietest passive headsets on the market today. The electret noise-canceling Microphone has state-of-the-art voice quality and is compatible with all current Comtronics intercoms and radio interface cables. Headset cables can be terminated with a single plug or configured with two plugs for general aviation use. Earmuffs can be adjusted up or down. All Comtronics helmets and headsets are designed for high noise environments and open cockpit flying including ultralights, powered parachutes, auto-gyros and all sport planes. Weight: 1 lb. (Black) P/N 11-07425 ..... **$227.95**



MODEL-3000 HEADSET - • The Model-3000 Headset offers 30 dB noise attenuation. • They are light-weight and have dark green muffs. • Ear seals are fluid foam-filled cushions and very comfortable. • Can be fitted with our PRO-COM Helmet. • Gel/Foam Ear Seals are optionally available. • This headset can also be used for high noise environments • Weight: 1 lb.(Dark Green)

P/N 11-09942 ..... **$191.95**



PRO-LITE SUPERIOR STEREO HEADSET - This headset uses either ultralight or general aviation audio and has a second pair of speakers for High Fidelity Stereo Music. Outstanding audio! • Music Speakers Frequency Response: 15 - 25000 Hz • 3.5 mm Stereo Music Jack on Ear Cup • Comes with Music Cord • Comfortable • Gel/Foam Ear Seals can be added for extra comfort and noise attenuation • NRR 33 - 45 dB • Can also be used with our PRO-COM Helmet • Weight: 1 lb.

w/ Electret Mic (Blue)..... P/N 11-09943 ..... **$265.00**
Listening Only (Blue) ..... P/N 11-07429 ..... **$165.00**

COM-AIR MODEL-5000 GENERAL AVIATION HEADSET - • Similar to Model-3100 Headset • General Aviation Plugs and Audio • Can also be fitted with our PRO-COM Helmet • Also available is a General Aviation - to - Ultralight Adapter • Gel/Foam Ear Seals can be added • Weight: 1 lb. (Black) P/N 11-09944 ..... **$265.00**



COMTRONICS AERO-COM SYSTEMS

Each includes: Two headsets and the Intercom specified.

System	Headset	Intercom	Part #	Price
Aer-Com	Model 3100	Ultra-Com II	11-07414	$590.00
Aer-Com	Model 3100	Dual-Com II	11-07415	$641.00
Aer-Com	Model 3000	Ultra-Com II	11-07411	$550.00
Aer-Com	Model 3000	Dual-Com II	11-07412	$590.00

COMTRONICS HELMETS

Helmet Size Selection Chart	
Helmet Size	**Head Size**
XX-Large	7-5/8" & up
X-Large	7-3/8" to 7-5/8"
Large	7-1/8" to 7-3/8"
Medium	6-7/8" to 7-1/8"
Small	6-5/8" to 6-7/8"



COMTRONICS ULTRA-PRO 2000 - Earmuffs are attached to a spring steel wire frame which is secured to the inside surface of shell. This arrangement provides a more positive seal for noise reduction caused by the engine, propeller and wind. The Ultra-Pro 2000 Flight Helmet is available in Blue, Metallic White, Metallic Silver, Metallic Red, Metallic Wine, Gloss Red, and Gloss Black. Sizes include Small, Medium, Large, X-Large, and XX-Large..... **$344.95**



COMTRONICS ULTRA-PRO STANDARD - The ULTRA-PRO Standard Helmet also has a plush fully upholstered liner and beaded foam inner shell with the new ultra-soft chin pad design. A feature unique to the Comtronics ULTRA-PRO Standard Helmet, the flip-out ear muffs allow easy entry and ability to converse with a student or passenger while making pre-flight inspections. The Ultra-Pro 2000 Flight Helmet is available in Blue, Metallic White, Metallic Silver, Metallic Red, Metallic Wine, Gloss Red, and Gloss Black. Sizes include Small, Medium, Large, X-Large, and XX-Large..... **$344.95**

AV



COMTRONICS HELMETS

COMTROINCS ULTRA-PRO HF HELMET - The ULTRA-PRO HF Helmet has a built in communication system using an electret microphone, built-in ear cups, quick release fase shield with either a single plug for ultralight audio or two plugs for genera aviation audio. This helmet has an ultra-plush interior and check pads are added to prevent air and noise from entering the helmet. Adjustable top vent and rear exhaust diffuser keep the helmet at a comfortable temperature. Color choices: Metallic White, Metallic Silver, Metallic Wine, Glossy Black, and Flat Black. Sizes available: Small, Medium, Large, X-Large, and XX-Largelease specify color & Size. **$402.95**



COMTRONICS ULTRA-PRO FULL FACE - Comtronics Full-Face fiberglass helmets are complimented by an Air Channel technology vent system, quick release shield system, padded chin bar, adjustable chin and top vents, rear exhaust vents, breath spoiler, padded D-ring retention system, UV clear protects paint and graphics, and DOT approved. The helmet interior has a comfortable liner, fitted ear cups with a pair of 2-inch speakers to enhance audio reception and built-in electret microphone. Color choices: Metallic White, Metallic Silver, Gloss Black, Flat Black, Graphic Red (pictured), Graphic Blue (pictured), and Graphite Metallic. Sizes available: Small, Medium, Large, X-Large, and XX-Large.See sizing chart above. **$479.95**

COMTRONICS AERO-PRO SYSTEMS

Each includes: Two helmets and the intercom specified.

System	Headset	Intercom	Part #	Price
Aero-Pro	Ultra-Pro 2000	Ultra-Com II	11-07404	**$739.95**
Aero-Pro	Ultra-Pro 2000	Dual-Com II	11-07405	**$780.00**
Aero-Pro	Ultra-Pro Standard	Ultra-Com II	11-07401	**$739.95**
Aero-Pro	Ultra-Pro Standard	Dual-Com II	11-07402	**$789.00**

Each includes: Two helmets, two headsets and the intercom specified.

System	Headset	Intercom	Part #	Price
Aero-Pro	Pro-Com	Ultra-Com II	11-07417	**$780.00**
Aero-Pro	Pro-Com	Dual-Com II	11-07418	**$830.00**

COMTRONICS ACCESSORIES

Description	Part No.	Price
Helmet Bag - Fleece Lined	11-07437	**$47.75**
Coiled Cord - Helmet/Headset Option	11-07438	**$45.00**
Gel/Foam Ear Seal Cushions	11-07439	**$39.95**
Face Shield - Clear	11-07440	**$29.85**
Face Shield - Smoke	11-07441	**$29.00**
Ulta Paq II - Heavy duty pack for the Ultra-Com II intercom	11-07442	**$34.95**
Dual Paq II - Heavy duty pack for the Dual-Com II intercom	11-07443	**$39.95**
Peak Visor	11-07444	**$8.60**
Windscreen - Foam / Dynamic	11-07445	**$9.95**
Windscreen - Leather / Dynamic	11-07446	**$9.95**
Windscreen - Foam / Electret	11-07447	**$9.95**
Windscreen - Leather / Electret	11-07448	**$9.95**
Ultra to GA adapter	11-09433	**$129.95**
Ultra to Heli Adapter	11-09957	**$57.95**
GA Dual Plug	11-09805	**$57.95**

COMTRONICS INTERFACE CABLE

Interface cables are designed to connect our helmets or intercoms to your transceiver. Different interface and custom cables available.

Cable For:	Part No.	Price
Icom A6/A24/A14	11-07450	**$129.95**
Vertex VXA 220/300	11-07451	**$110.95**



LYNX HELMETS
LYNX MICRO SYSTEM

The Micro System is a unique self contained intercom system which is plug and play compatible with any radio. This equipment is extremely popular for use is open cockpit aircraft and is the market leader for use in ultralight, powered parachutes, etc.

MICROSYSTEM PACKAGES

Part No.	System Package	Package Contents	Price
11-05340	Single Headset Package	One Micro System Headset, Dual Micro System Charger, One Headset Switching Adapter, One Headset Bag	**$565.00**
11-05341	Add-on Headset Package	One Micro System Headset, One Headset Coupling Adapter, One Headset Bag	**$466.95**
11-05342	Dual Headset Package	Two Micro System Headsets, Dual Micro System Charger, One Headset Switching Adapter, One Headset Coupling Adapter, Two Headset Bags	**$1,032.00**
11-05343	Single Headset-Helmet Package	One Micro System Headset, One Micro System Helmet, Dual Micro System Charger, One Headset Switching Adapter, One Helmet Visor, One Headset Bag, One Helmet Bag	**$924.00**
11-05344	Add-on Headset-Helmet Package	One Micro System Headset, One Micro System Helmet, One Headset Coupling Adapter, One Helmet Visor, One Headset Bag, One Helmet Bag	**$826.00**
11-05345	Dual Headset-Helmet Package	Two Micro System Headsets, Two Micro System Helmets, Dual Micro System Charger, One Headset Switching Adapter, One Headset Coupling Adapter, Two Helmet Visors, Two Headset Bags, Two Helmet Bags	**$1,749.00**

MICROSYSTEM COMPONENTS

Part No.	System Equipment	Description	Price
11-05346	Micro System Headset	Self contained intercom headset.	**$419.00**
11-05350	Micro System Helmet	EU certified protective helmet. S	**$268.95**
11-05351	Micro System Helmet	EU certified protective helmet. M	**$268.95**
11-05352	Micro System Helmet	EU certified protective helmet. L	**$269.95**
11-05353	Micro System Helmet	EU certified protective helmet. XL	**$268.95**
11-05354	Helmet Visor Standard	Attaches to the helmet with screw fixings.	**$84.75**
11-09310	High Visibility Visor	For use with Lynx helmets	**$83.75**
11-05364	Leather Helmet	Soft leather helmet for headset.	**$348.95**
11-05347	Headset Coup. Adap.	Connects two headsets together.	**$41.50**
11-05348	Headset Switch Adap.	Switch-on a single headset.	**$22.75**
11-05349	Dual Charger	Wall charger headsets.	**$117.95**
11-05356	Visor Extension	Wind deflector chin guard for visor.	**$48.75**
11-05357	Helmet Bag	Cloth bag for a helmet and visor.	**$16.75**
11-05358	Headset Bag	Cloth bag to protect a headset.	**$14.95**
11-05359	Headset Exten. Lead	Used to extend the headset leads.	**$96.75**
11-05360	Panel Exten. Lead	Extension lead with panel socket.	**$123.95**
11-05361	Headset Panel Adap.	Converts lead socket into panel.	**$88.00**
11-05362	Headset Lead Splitter	Used to connect several headsets together.	**$131.95**
11-05363	Headset Lead Comb.	Connects several interface units together.	**$166.95**
11-05365	Helmet Goggles	For use with either type of helmet.	**$123.95**
11-05366	Double Helmet Bag	Large bag for complete systems.	**$169.95**
11-07092	Radio Splitter + Coiled Radio Lead	Connects in-line with a headset and provides connections for an additional device.	**$443.95**
11-07093	Coiled Radio Leads	Connecting different radios to portable interface equipment.	**$40.25**
11-07094	Straight Radio Leads	Connecting different radios to portable interface equipment.	**$39.85**
11-07095	Car Charger	Charges two headsets at the same time.	**$109.75**
11-07096	Audio Output Lead	Connecting professional recording equipment to the Micro System	**$40.00**

HELMET SIZES:

To obtain the correct size of helmet, use a tape measure to measure the circumference of your head just above the ears.

Small: 55-57cm	Small: 22”
Medium: 57-59cm	Medium: 23”
Large: 59-61cm	Large: 23.5”
Extra Large: 61-63cm.	Extra Large: 24.5”

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MICROSYSTEM ACCESSORIES

Part No.	Radio Equipment	Description	Price
11-05368	Twin Jack Adapter	Converts the headset to twin jack plugs.	$163.95
11-05369	Audio Adapter	Connects a Walkman or mobile telephone.	$307.00
11-05370	Radio Adapter *	Connects one headset to a radio.	$423.95
11-05371	Radio Interface unit *	Connects one or two headsets to a radio.	$434.95
11-05378	Radio/Power Inter-face unit *	Powers two headsets and a radio. For Type B connections only and these radios: ICOM A3, A22, A6, A24 and ICA5, A23 with the CT-44 adapter. Vertex Standard VXA-100, 120, 150, 200, 210 with the CT-44 adapter. All other radios will require special order.	$421.95
11-05372	Velcro Mount PTT Switch	Velcro fixing PTT Switch.	$75.65
11-05373	Screw Mount PTT Switch	Screw fixing PTT Switch.	$53.75
11-05374	PTT Extension Lead	Two Metre extension lead for PTT Switch.	$64.25
11-05375	PTT Connector and Lead	Special PTT connector with two metre lead.	$29.25
11-05376	Audio Input/Output Lead	Connects a Walkman to an Audio Adapter or Power Interface.	$39.95
11-05377	Mobile Telephone Lead *	Connects a mobile telephone to an Audio Adapter.	$54.50
11-05379	Power Supply Lead	Connects aircraft battery to Power Interface.	$54.50
11-05380	Power Supply Filter	Used to filter aircraft power supply.	$116.95
11-05381	Large Power Filter	Used with very noisy power supply.	$58.75
11-05382	Radio Power Filter	Used to prevent feed-back with Icom A2/A20 Radios.	$90.25
11-05383	Radio Power Adapter 11V13	Used to connect Icom A6/A24 radios to a Power Interface.	$114.95
11-05384	VHF Antenna -Short Flexible	Antenna for use with airband radios.	$93.50
11-05385	VHF Antenna -1/4 Wave Whip	Antenna for use with airband radios.	$99.75
11-05386	Antenna Extension Lead	Five metre extension for antenna.	$45.50
11-05387	Adapter LA-25	Used to connect Cobra FRS and GMRS radios.	$25.00
11-05388	Adapter LA-30	Used to connect Yaesu VXA 100 radios.	$25.00
11-05389	Adapter LA-44	Used to connect Yaesu VXA 100/120/150/200/210/220 radios.	$80.00
11-05390	Adapter CT-44	Used to connect Icom A5/A6/A23/A24 radios.	$47.50
11-05391	Adapter CT-91	Used to connect Vertex Stadard radios.	$46.00
11-05392	Adapter CT-96	Used to connect Yaesu VXA 300/700 radios.	$46.00
11-05393	Power Lead Adapters	Used to connect various radios to a Power Interface.	$44.75

Please specify the make and model that will be used with this product.



LYNX PILOT SYSTEM

The Pilot System is a range of headsets and helmets for use in light aircraft and helicopters. The main advantage of these products are that they provide an integrated headset and helmet system for use in aircraft which have standard twin jack intercom equipment already installed.

Part No.	System Equipment	Description	Price
11-05394	Pilot System Headset + Lead	Standard general aviation headset.	$446.95
11-05395	Twin Jack Headset Lead	Interchangeable lead for Pilot headset.	$71.75
11-05396	US NATO Headset Lead	Interchangeable lead for Pilot headset.	$97.50
11-05397	UK NATO (Euro) Headset Lead	Interchangeable lead for Pilot headset.	$78.25

NOTE: Pilot System uses the same helmet, helmet visor, visor extension, leather helmet, helmet goggles, helmet bag, headset bag, and double helmet bag as the Micro System. Order part numbers as shown for Micro System Components.



LYNX RELAI SYSTEM

The relai System is a range of headsets and helmets for direct connection to hand-portable radios. This equipment also provides the facility to use a helmet with the headset and is used mainly by pilots of single seat aircraft, Paramotor pilots and airport ground crew.

Please specify the make and model of radio that will be used with the Relai System Headset.

Part No.	Description	Price
11-05398	Relai System Headset + Radio Module.	$441.95
11-05400	Lynx Avionics Relai System headsets to be used with the following radios: Alinco, Cobra, Delcom, Icom A2/A20/ A21,JRC,Maxon,Motorola,Radio Shack, Yaesu FT-23R,YAESU 2000	$15.00
11-05401	Lynx Avionics Relai System headsets to be used with the following radios: ICOM A3/A4/A6/A22/A24 ICOM A5/A23	$40.00
11-05402	Allows Lynx Avionics Relai System headsets to be used with the following radios:ICOM A3/A4/A6/A22/A24/ ICOM A5/A23	$15.00

NOTE: Relai System uses the same helmet, helmet visor, visor extension, leather helmet, helmet goggles, helmet bag, headset bag, and double helmet bag as the Micro System. Order part numbers as shown for Micro System Components.

LYNX ACCESSORIES

Part No.	Spare Parts	Description	Price
11-05403	Ear Seals Type 1 Foam (Two)	For use with all Lynx headsets	$23.50
11-05404	Ear Seals Type 2 Gel (Two)	For use with all Lynx headsets	$41.50
11-05405	Microphone Wind Shield Large (37mm Ø)	Used in an open cockpit. For use with all Lynx headsets.	$11.50
11-05406	Microphone Wind Shield – Small (25mm Ø)	Used in an enclosed cockpit. For use with all Lynx headsets.	$11.85

LEATHER FLYING HELMETS



MODEL 711

GOATSKIN HELMET FOR DAVID CLARK HEADSETS

Note: Specify size by completing part no. with -S, -M, -L

Small (19"-20") Med.(21"-22") Large(23"-24")

Black (Small) .....P/N 11-10505-S..... **$76.25**
Black (Medium) .....P/N 11-10505-M..... **$77.25**
Black (Large) .....P/N 11-10505-L..... **$76.50**
Black (X-Large) .....P/N 11-10505-1..... **$76.75**
Brown (Small).....P/N 11-10510-S..... **$75.85**
Brown (Medium) .....P/N 11-10510-M..... **$76.75**
Brown (Large).....P/N 11-10510-L..... **$76.75**
Brown (X-Large) .....P/N 11-10510-1..... **$76.75**



COMTRONICS HELMETS

COMTRONICS ULTRA-PRO STANDARD -

The ULTRA-PRO Standard Helmet also has a plush fully upholstered liner and beaded foam inner shell with the new ultra-soft chin pad design. A feature unique to the Comtronics ULTRA-PRO Standard Helmet, the flip-out ear muffs allow easy entry and ability to converse with a student or passenger while making pre-flight inspections. Muffs have an elastic band over the ear cup enabling the wearer to pull muffs more tightly against the ear. Helmet chin straps are available with "D" rings or quick-disconnect snaps. They are compatible with all Comtronics intercoms and radio interface cables. Each helmet comes with a black peak visor..... **$344.95**

Available in these colors:

	Small,	Medium	Large	X-Large	XX-Large
Blue	11-10147	11-10146	11-10145	11-10148	11-10149
Metallic White ..	11-10127	11-10126	11-10125	11-10128	11-10129
Metallic Silver ..	11-10132	11-10131	11-10130	11-10133	11-10134
Metallic Red	11-10137	11-10136	11-10135	11-10138	11-10139
Metallic Wine ..	11-10142	11-10141	11-10140	11-10143	11-10144
Gloss Red	11-10152	11-10151	11-10150	11-10153	11-10154
Gloss Black	11-10158	11-10157	11-10156	11-10159	11-10161

AV

LYNX PILOT SYSTEM LEATHER HELMET



A soft leather helmet with padded chamois lining for use with a Pilot System headset. The helmet is fitted over the headset and combines with it to form an integrated assembly. Hand made to resemble a second world war fighter helmet. and weighing only 270 grams, this helmet is ideal for use in classic open-cockpit aircraft.

Standard (55-59cm) .....P/N 11-11196 ..... **$348.95**
Large (5-63cm).....P/N 11-05364 ..... **$348.95**

MARK 4 SILVER CROSS GOGGLES



All leather face mask, colour matched head bands, Split lenses, bright polished and chrome plated frames, Sliding Nose Bridge Adjustment.
P/N 13-06000 ..... **$98.75**

Replacement Lenses for Silver Cross Goggles

Clear, set of 2 ..... P/N 13-06100 ..... **$32.50**
Smoke, Set of 2 ..... P/N 13-06200 ..... **$44.50**



WORLD WAR II RAF FLYING GOGGLES

A faithful Replica incorporating dark brown soft leather face mask stitched to the RAF blue painted solid brass frames. The traditional Split Lenses
P/N 13-05860 ..... **$86.75**



VINTAGE AVIATOR GOGGLES

Soft Brown or Black Leather face Mask, Hand Stitched to silver or black painted solid brass frames. Screw adjustment on nose bridge
P/N 13-06310 ..... **$97.85**

DIFFERENTIAL CYLINDER PRESSURE MODEL E2A



Eliminates guesswork by allowing you to locate the exact location and cause of your engine's loss of efficiency. Field tester for 2 years by Teledyne Continental Motors, and approved for use on Teledyne Continental Engines by their Engineering and Field Services Group. Complete instructions with each unit. "M" models have built-in master orifice.* **Not approved by TCM.**

E2A-12mm (Rotax) for cyl. < 5" bore.....P/N 12-00693 ..... **$86.75**

STANLEY DECIMAL INCH TAPE MEASURE



This 12-ft. steel tape measure with 1/2" blade is graduated in tenths & hundredths of inches and also in fractions of inches (32nds). Very handy for all aircraft construction. A must for building composite aircraft.

P/N 33-272 ..... **$17.90**

AIRCRAFT BUILDER CALIPERS



Our Aircraft Builder's Calipers feature an easy-to-read dial, 6" length capacity, and measurement in 4 dimensions outer, inner, depth, and step. The dial has .001" graduations for case and bullet measurements. A chart that shows maximum and trim lengths for all popular calipers, plus a fitted case with instructions, are included. Ideal measurement tool for aircraft mechanics and homebuilders. Available in plastic or stainless steel.

Plastic Calipers .....P/N 12-30215 ..... **$57.95**

Stainless Steel Calipers .....P/N 12-30220 ..... **$59.75**

FRACTIONAL DIGITAL CALIPER 3 INCH



Three universal systems of measurement-Guaranteed accuracy to 0.001". Delivers accurate readings of inside, outside, step and depth measurements. This 3" caliper fits conveniently into your pocket for working in the field. Range 0-3" (0-76mm) Resolution 0.0005" (0.01mm or 1/64"). Accuracy 0.001" (+/- 0.02mm). Auto on/off feature preserves battery life.Free-wheeling friction roller advances and retracts slide. Extendable depth gage for use in slots and small holes. Replacement Battery - SR54 or LR54

P/N 12-02307 ..... **$16.75**

TO

ECONOMY SAFETY WIRE TWISTERS



These top quality twisting lock pliers with automatic return are economically priced and extremely durable. Features a sharp cutting edge and will twist up to .060" dia. safety wire. Length 6"& 9". Foreign made.

6"..... P/N 12-01472 .....**$19.90**

12"..... P/N 12-01473 .....**$19.75**

ECONOMY RIVET GUNS



These popular 2X /3X /4X rivet guns used in aircraft manufacturing plants worldwide. "X" series rivet gun has an incomparable teasing triggers, allowing you to slowly begin riveting without damaging the skin. A lightweight aluminum handle with powder coat finish for comfort. Hardened & precision ground steel piston, cylinder, spool valve for long life. Includes spring retainer & brass air regulator.

Length	BPM	Capacity	Bore	Shank	Stroke	Weight (lbs)	Part No.	Price
6-11/16"	2580	1/8"	1/2"	.401"	2-1/4"	3.1	12-02034	**$127.95**
7-5/16"	2160	3/16"	1/2"	.401"	2-7/8"	3.2	12-02035	**$136.95**
8-1/2"	1740	1/4"	1/2"	.401"	3-1/16"	3.4	12-02036	**$137.95**

ECONOMY SWAGING TOOLS



NO. 2 SWAGE-IT - For use with sleeves for 1/16", 3/32" and 1/8" cable. Swaging pressure applied by using a wrench to tighten bolts. Size: 1/2" x 1" x 7". Wt. 1 lb. Cadmium plated. P/N 12-12000 ..... **$19.50**

AIRWOLF AFC-470 OIL CAN CUTTER



Every A&P knows the importance of cutting every single oil filter open after an oil change. The problem up to now was oil filters were difficult to open and the tools to open them were expensive. This is no longer the case with the Airwolf AFC-470 oil filter cutter. The AFC-470 is the easiest and quickest way to determine the current health of your engine. The Airwolf AFC-470 oil filter cutter is constructed out of a solid 6" billet of super strong 6061-T6 aluminum, hard anodized to resist scratches and wear. Stainless steel rollers allow the oil filter to spin effortlessly during cutting. And finally, our specially designed razor sharp cutter wheel hardened to 60 Rockwell, will make quick work of opening any oil filter. This filter is designed to last a lifetime. Fits new style oil filters.

Rotax Filters ..... P/N 12-02295..... **$87.95**

ECONOMY SAFETY WIRE TWISTERS



These top quality twisting lock pliers with automatic return are economically priced and extremely durable. Features a sharp cutting edge and will twist up to .060" dia. safety wire. Length 6"& 9". Foreign made.

6"..... P/N 12-01472 .....**$19.90**

9"..... P/N 12-01473 .....**$19.75**

SAFETY WIRE TOOL



Easy one-hand operation. Reaches into tight places, makes a fast, neat twist. Shatterproof plastic handle.

P/N 12-01072 ..... **$16.50**

FELCO CABLE CUTTERS

A cable when crushed or deformed is difficult to use with fittings. These fine quality Swiss made cutters, with unique triangular jaws, never leave a frayed end.



#C-7F CUTTER - Capacity 3/16" diameter and smaller. Length 8". Wt, 10 oz.

P/N 12-01135 ..... **$48.75**

S & F CABLE CUTTERS



A fine tool made from high quality alloy steel and heat treated for best cutting action and long life of cutting edges. Handles shaped for comfortable grip and minimum cutting effort. Max. capacity 3/16" dia. 1 x 19 cable.

No. 316 Cable Cutter.....P/N 12-18600 ..... **$18.50**

BENCH MOUNT FOR #316 CABLE CUTTER

This bench mount adds to the versatitlity of the #316 cable cutter. Mounts with 2 screws to a bench or plate. Fingers can still grip the tool. Easily removed.

P/N 12-00674.....**$3.50**

S & F HARD WIRE CUTTER



These quality cutters feature a unique handle design with thick "T" shaped vinyl handle grips for maximum comfort while cutting. Cuts 3/32" maximum diameter music wire, heat treated steel spring wire, stainless or galvanized cable. Produces clean square cuts. Gold iridite finish for maximum rust protection. Length: 6". Wt. 7 oz.

Model No. 093. ..... P/N 12-18605 ..... **$17.95**

ACCUGAGE PROFESSIONAL TIRE GAUGE



This very accurate bourdon tube tire gauge offers precision pressure control and a rugged steel case with rubber shock-absorbing cover. It comes complete with a 12" long flexible braided hose, a bleeder valve, and stop hand. It is easy to read the pressure on this 2" gauge with 1" psi markings and 60 lb. range. Excellent for use on aircraft tires as well as cars and trucks.

P/N 13-00437 ..... **$16.85**



FLY TIES TIE DOWNS

FlyTies Tie Downs Rated "Top Choice" by Aviation Consumer

FlyTies® unique design allows quick insertion and quick removal using the easy-out extraction tool provided. Rugged, die-cast steel rods are 3/8" x 14" for deeper penetration into harder ground. Cumulative load capacity is 3,600 lbs. Kit includes 3 eas. Delrin hubs, 9 eas. steel rods, 3 ea. 3/8" x 12 ' ropes, easy-out extraction tool, and rugged compact canvas tote bag. Complete kit weighs only 6 lbs. (less than 1 gal of Avgas) and has a lifetime warranty.

P/N 13-22751 .....**$98.85**

"THE CLAW" TIE-DOWN SYSTEM



Advanced Aircraft Anchoring System – The Claw® Aircraft Tiedown kit comes complete with three earth anchors, rope, spikes, hammer and canvas carry bag. The Harder You Pull, The More It Grips The Earth. **Features**: Easy installation... Easy removal. No more struggling with screw-in anchors The "Claw®" is designed exclusively for aircraft. The "Claw®" system has a 3600 lb. combined capacity. The last tie down you will ever have to buy - Lifetime Warranty, Tremendous holding strength. The harder you pull, the more The "Claw®" grips. Ideal for all aircraft, Works in hard clay, sandy soil or anything in between Large foot print spreads the load over a larger area for maximum holding power, Low profile will not puncture tires, Complete System weighs only 8 lbs (Including Hammer), Light-weight aircraft aluminum with hardened corrosion resistant die cast zinc plated steel spikes 25 ft 3/8" dia. solid braid polyester rope, Anchoring System hammer doubles as removal tool The "Claw®" includes: Bag that is easy to carry and store that contains: 3 Anchors; 9 spikes; 1 hammer; 25-ft rope Wt: 8 lbs. P/N 13-02448 .....**$84.95**



NELSON AIRCRAFT TIE-DOWNS

- Three 15" welded (not bent) steel anchors with sharp tips for easy installation
- Three 15' nylon ropes• Cordura, Int'l. Orange, 8"x15" case
- Wt: 4 lbs. P/N 13-00663 ..... **$73.50**



FOLD DOWN MINI CHOCKS

These mini chocks are so small and light you can take them with you. They work perfectly on both hard and dirt surfaces. Anodized aluminum, each wheel pair folds down to 3.75"x 2"x.5" & weighs just 4 oz. A 18" lanyard is attached.

P/N 5229 ..... **$17.95**



FLYTIES WHEEL CHOCKS

Flyties self-tensioning wheel chocks are lightweight and easy to use in safely immobilizing your aircraft. They will last longer than wooden chocks and are resistent to aircraft fuels, hydraulic fluids, and lubricants. Protected by a durable, high visibility powder coat finish. Self-tensioning design will not loosen. Fits 98% of general aviation aircraft. Specifications. Constructed of heavy gauge aluminum alloy casting with strengthened fillet radius - 2"x2"x8"x1/8" P/N 13-04967 .....**$16.60**



27" VINYL WINDSOCK

Features 27" long x 6-1/2" diameter fluorescent orange vinyl sock. Aluminum mast adjusts from 33" to 54" and up to 12 ft. with extension kit. Perfect for private strip, helicopters, or runway threshold.

Complete Windsock w/frame..... P/N 13-20015 .....**$60.75**

Replacement Sock ..... P/N 13-20025 .....**$21.85**

ASA AIRCRAFT LOG BOOKS



Designed to keep records of the entire aircraft in order: inspections, tests, repairs, alterations, ADs, service bulletins, and equipment additions, removals or exchanges.

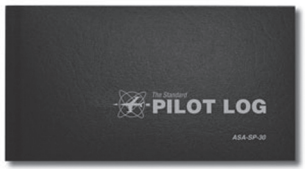
SA-1 soft cover-hunter green; 7.25"x 4"; 64 pgs

P/N 13-32375 ..... **$4.75**

SA-2 Hard cover-Hunter Green; 7.75"x 5-5/8"; 96 pgs.

P/N 13-32384 ..... **$8.95**

STANDARD PILOT LOG BOOK



The finest and most verstile logbooks for aviators. ASA's logbooks have been "The Standard" of the industry for over 30 years and comply with the FAA's recordkeeping requirements. With so many options, there is a logbook that's right for you. Versatile, easy-to-use and flexible enough to fit any pilot's needs, student or ATP. Includes all instructor endorsements. Hard cover, black, 8" x 4 1/2", 100 pages.

Black.....P/N 13-32365 ..... **$6.70**



WIND WIZARD WIND SPEED INDICATOR

ECONOMY MODEL – ACCURATE & COMPACT

A single scale eliminates the need to shift back and forth between two scales when wind conditions are variable or gusty. Conveniently calibrated in miles/hour, meters/ second and Beaufort. Expanded in the lower wind speed range of 0-20 MPH (0-8.9 meters/sec). Slips easily into a shirt or coat pocket. Safety wrist strap gives added security in stronger winds, and stores out of the way in the folding handle. Constructed of high impact plastic and corrosion resistant metals. It comes with leather-like carrying case. No Batteries needed.

P/N 13-18520 .....**$49.99**



WINDLINQ WIND METER

Most compact electronic anemometer available. Features: * Displays wind speed in MPH, Km/Hr, Knots, Met/Sec, and Ft/Sec * Displays Current Wind Speed * Displays Maximum Wind Speed * Features back light * Includes Replaceable Lithium Battery (CR2032) * Water Resistant to 3 feet (1 m) * Great gift item Specifications * Size:3.6"H x 1.6"W x 0.6"D, 1.8 oz * Lithium battery * 4 year warranty on battery * Measuring range: 0 to 99.99 * Resolution: 0.1 units * Case: Rugged polycarbonate, waterproof to 10 feet * Precision: ±4% from 16° F to 122°F (10° to 50°C)

P/N SKWWIND **$52.95**

PS



SPORT PILOT DVDS FROM ASA - Two new DVDs by sport pilot expert Paul Hamilton are available that explore the flying of light sport aircraft. Preflight a Fixed-Wing Light-Sport Aircraft for Sport Pilots takes pilots through the preflight inspection of a light sport aircraft (LSA). Be a Sport Pilot: Learning to Fly a Fixed-Wing Light-Sport Aircraft takes the lessons a step further by introducing the pilot to what it takes to obtain a sport pilot certificate. Hamilton and instructor Jeff Reynolds discuss pilot training, from first flight to solo to sign-off. The two DVDs are available separately or in a kit that also includes Weather to Fly for Sport Pilots and the Sport Pilot Logbook

Learn to Fly DVD..... P/N 13-04191 ..... **$42.95**
Preflight Fixed Wing DVD..... P/N 13-04192 ..... **$42.95**
Fixed Wing Sport Pilot..... P/N 13-04193 ..... **$78.95**

SPORT PILOT LOGBOOK - Specifically designed for all Sport Pilots who fly ultralights and light-sport aircraft including hang gliders, paragliders, powered parachutes, trikes (weight-shift control), and fixed wing (three-axis control) aircraft. 7.25" x 5.25", 98 pages. P/N 13-03385.....**$14.95**





ASA START FLYING! DVD

Understand what's involved in learning to fly with this informational DVD. Encourages would-be fliers by providing answers to frequently asked questions about flight training. Perfect for anyone interested in earning a pilot's license, student pilots, and pilots who are upgrading to advanced ratings.

P/N 13-05758.....**$21.75**

ASA ROTAX 912 ENGINE INTRODUCTION



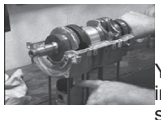
This DVD by Paul Hamilton introduces the use and maintenance on Light-Sport Aircraft (LSA) of the ROTAX 912 engine. Many engine problems seen in the field are preventable with proper operation and maintenance and the 912 is no exception. This DVD is particularly useful to maintenance professionals, pilots and flight instructors operating ROTAX-powered Light Sport Aircraft. Answers frequently asked questions based on years of operational and maintenance experience and outlines typical procedures every owner, operator and mechanic should know. This DVD is the only one of its kind in the rapidly growing LSA market, and it caters to the do-it-yourself experience of flying this category of aircraft P/N 13-04747..... **$42.95**



SPORT PILOT KIT - Gleim's Sport Pilot Kit is designed to help expedite training for the sport pilot certificate. Contains everything you need (except airplane and instructor) Offers an all-in-one package at an affordable price. Save money by purchasing all required materials together.

P/N 13-03449.....**$86.75**

BV



DEEP INSIDE YOUR ROTAX INSTRUCTIONAL DVD

You can now see and understand what procedures are involved with the 150 and 300 hour inspection/rebuild services. Alan points out the places carbon accumulates, where the common areas of wear occur, and other signs indicating the possibility of potential failures. The specialized Rotax engine tools are demonstrated as to their function in removing various internal components. Installation and maintenance tricks are also demonstrated and explained for the purpose of heading off future engine failures that can lead to disaster. P/N 13-03370 .....**$34.95**



ROTAX 912 INSTALLATION TIPS & TECHNIQUES

This presentation explains the most important details of preparing and installing th epopular Rotax 912 family of four stroke engines in your experimental homebuilt aircraft. This reliable, high performance engine will only perform safely if installed properly as specified by the Rotax installation guide. The important details in this guide are often misunderstood or even ignored completely resulting in catastrophic engine failures and dangerous flying situations. DVD Running time: 1.5 hours

P/N 13-04183 ..... **$35.95**



LIGHT SPORT AIRCRAFT INSPECTION PROCEDURES - Light Sport Aircraft Inspection Procedures is the first book we've seen on the maintenance and inspection of Light Sport and Ultralight type aircraft. Airframes, engines, and control systems are covered in depth along with many illustrations and photos showing typical damage and wear points which are common on these non-certificated aircraft. Owners and operators of this class of aircraft should consider this book required reading before your next flight or pre-flight inspection. A&P mechanics will also find this material extremely useful as Light Sport Aircraft become more common and this type of aircraft begin to make their way into your shops.125 pages. Book ..... P/N 13-09905 ..... **$33.50**
E-Book..... P/N 13-09861 ..... **$24.95**



SPORT PILOT: CHOOSING THE LIGHT-SPORT AIRCRAFT THAT'S RIGHT FOR YOU - This DVD production and booklet compare the LSA types as well as their ultralight cousins to help pilots make a truly informed decision on which light-sport aircraft is right for them. It explains what ultralights and LSA are, provides parameters to evaluate the viewer's situation and factors to consider (including cost, athletic ability, previous aviation experience, time to learn, transportation, storage, and airfield options), and provides an overview and introduction to each of the light-sport aircraft types. Includes beautiful full-color booklet with aircraft photo and comparison tables. Total running time 00:41:00.....P/N 13-03467 ..... **$21.75**



PRACTICAL TEST STANDARDS: SPORT PILOT - This is ASA's Sport Pilot Practical Test Standards for Airplane, Weight-Shift Control, Powered Parachute and Flight Instructor. The FAA Practical Test Standards are used by instructors, students, and examiners to prepare for, review, take, or issue the checkride. Includes both the FAA-S-8081-29 for Airplane and FAA-S-8081-31 for Weight-Shift Control and Powered Parachute (effective December 2004), applicable to both Sport Pilots and Sport Instructors. 296 pages.

P/N 13-05855.....**$6.95**



WEATHER TO FLY FOR SPORT PILOTS WITH PAUL HAMILTON - Sport pilots fly lower and slower than General Aviation pilots. As a result, weather plays a critical factor in flying. The straightforward and beautiful presentation features time-lapsed cinematography of cloud formations, in-air footage, and animations. This DVD simplifies complex weather concepts as well as illustrates consequences of pilot judgment, in a 5-step system specific to Sport Pilots and light-sport aircraft operations. Pilots will learn to forecast local conditions, interpret weather information accurately, make better dec sions about "whether to fly", and learn to recognize trends. Includes booklet with worksheets for an interactive learning experience. Companion product to ASA's Sport Pilot Logbook . Total running time 01:20:12

P/N 13-03468 ..... **$42.95**



GLEIM DELUXE SPORT PILOT KIT WITH ONLINE GROUND SCHOOL

Set Contents: Flight Bag, Gleim Cap, Flight Computer, FAR/AIM, Logbook, Online Communication Course, Gleim Online Ground School for Sport, Pilot Handbook, Plotter, Sport Pilot Flight Maneuvers and Practical Test Prep book, 2nd Ed., Sport Pilot FAA Knowledge Test book, 2012 Ed., Sport Pilot Knowledge Test Prep Software Download, Sport Pilot Student Certificate Course, Sport Pilot Syllabus book, 3rd Ed., Sport Pilot Training Record book, Security-Related Airspace Course. P/N 13-11645..... **$134.95**



SPORT PILOT AIRPLANE GUIDE

Sport Pilot Airplane: A Complete Guide provides an in-depth understanding of light-sport aviation complexities. Clarifies points commonly misunderstood, provides a wealth of information on subject such as Selecting an Aircraft, Pilot and Aircraft Certification, Weather, Flight Principles, and more. Includes 256 pages with illustrations, photos, or graphs on nearly every page. The material presents the experience of thousands of flight hours and contains valuable lessons for all pilots and would-be pilots.P/N 13-03798 ...**$24.95**



SPORT PILOT ENCYCLOPEDIA

Can be used three ways: 1) SP Prep = full immersion rapid prep for the written, 2) SP Encyclopedia = thorough review of relevant FAA publications essential to both the written and the oral exams, and/or 3) both as entertaining and informative leisure reading. The narrative is laced with humor, personal anecdotes, and frank sometimes blunt language that keeps the reader alert and involved while feeling secure and comfortable as if in the company of an experienced friend and mentor. Actual NTSB accident reports are woven into the discussion.

P/N 13-03706.....**$9.95**

U.S. AND METRIC SYSTEM EQUIVALENTS

LENGTH EQUIVALENTS

Unit	Millimeters	Centimeters	Inches	Feet	Yards	Meters
1 Millimeter=	1	.1	.03937	.003281	.001094	.001
1 Centimeter=	10	1	.3937	.032808	.010936	.01
1 Inch=	25.4001	2.54001	1	.083333	.027778	.025400
1 Foot=	304.801	30.4801	12	1	.333333	.304801
1 Yard=	914,402	91.4402	36	3	1	.914402
1 Meter=	1000	100	39.37	3.28083	1.09361	1

Unit	Feet	Yards	Meters	Rods	Furlongs	Miles (Statute)
1 Rod=	16.5	5.5	5.02921	1	.025 (1/40)	.003125 (1/320)
1 Furlong=	660	220	201.168	40	1	.125(1/8)
1 Mile (Statute)=	5280	1760	1609.35	320	8	1

1 Nautical Mile = 6080.2 feet = 1.15155 statute miles = 1/3 league.
1 Light Year = 5.879 trillion miles = 9.46 trillion kilometers.

WEIGHT EQUIVALENTS

Unit	Grains	Grams	Ounces (Troy)	Ounces (Avoir.)	Pounds (Troy)	Pounds (Avoir.)	Kilograms
1 Grain=	1	.064799	.002083	.002286	.000174	.000143	.000065
1 Gram=	15.4324	1	.032151	.035274	.002679	.002205	.001
1 Ounce (Troy) =	480	31.1035	1	1.09714	.083333	.068571	.031104
1 Ounce (Avoir.) =	437.5	28.3495	.911458	1	.075955	.0625	.028350
1 Pound (Troy) =	5760	373.242	12	13.1657	1	.822857	.373242
1 Pound(Avoir.) =	7000	453.592	14.5833	16	1.21528	1	.453592
1 Kilogram =	15432.4	1000	32.1507	35.2740	2.67923	2.20462	1

Unit	Kilograms	Pounds (Troy)	Pounds (Avoir.)	Metric Tons	Net (Short)	Gross (Long Tons
1 Metric Ton =	1000	2679.23	2204.62	1	1.10231	.984206
1 Net (Short) Ton=	907.185	2430.56	2000	.907185	1	.892857
1 Gross (Long) Ton=	1016.05	2722.22	2240	1.01605	1.12	1

VOLUME AND CAPACITY EQUIVALENTS

Unit	Cubic CM	Cubic In	Liters	Qts (Liq.)	Qts (Dry)	Gals. (Liq.)	Gals. (Dry)	Cubic Feet
1 Cu. Centimeter=	1	.06102	.001	.00106	.00091	.00026	.00023	.00004
1 Cu. Inch=	16.387	1	.01639	.01732	.01488	.00433	.00372	.00058
1 Gill=	118.29	7.2188	.125	.10742	.03125	.02686	.02686	.00418
1 Pint (Liquid)=	473.18	28.875	.47318	.5	.42968	.125	.10742	.01671
1 Pint (dry)=	550.62	33.600	.55062	.58182	.5	.14546	.125	.01945
1 Liter=	1000	61.023	1	1.0567	.90808	.26417	.22702	.03531
1 Quart (Liquid)=	946.36	57.75	.94636	1	.85937	.25	.21484	.03342
1 Quart (dry)=	1101.2	67.201	1.1012	1.1637	1	.29091	.25	.03889
1 Gallon (Liquid)=	3785.4	231	3.7854	4	3.4375	1	.85937	.13368
1 Gallon (dry)=	4404.9	268.80	4.4049	4.6546	4	1.1636	1	.15556
1 Pack=	8809.8	537.61	8.8098	9.3092	8	2.3273	2	.31111
1 Cu. Foot=	28317.0	1728	28.317	29.922	25.714	7.4805	6.4285	1
1 Bushel=	35239.3	2150.4	35.239	37.237	32	9.3092	8	1.2445
1 Barrel=	119241.2	7276.5	119.24	126	108.28	31.5	27.070	4.2109
1 Cu. Yard=	764559.4	46656	764.56	807.90	694.28	201.97	173.57	27
1 Cu. Meter=	1000000	61023.4	1000	1056.7	908.08	264.17	227.02	35.314

AREA EQUIVALENTS

Unit	Square Inches	Square Feet	Square Yards	Square Meters
1 Square Foot=	144	1	.1111	.09290
1 SquareYard=	1296	9	1	.83613
1 Square Meter =	1550	10.7639	1.19599	1
1 Square Rod=	39204	272.25	30.25	25.293
1 Are=	155000	1076.39	119.599	100
1 Acre=	6272640	43560	4840	4046.86
1 Square Mile (640 Acres)=	-	27878400	3097600	2589999
1 Square Kilometer=	-	10763867	1195985	1000000

MISCELLANEOUS LIQUID MEASURE CONVERSIONS

1 Fl. Oz. = 1.805 Cu. In.	1 Quart = 946 Cu. Cm.
1 Fl. Oz. = 29.6 Cu. Cm.	1 Gallon = 8 Pints
1 Pint = 16 Fl. Oz.	1 Gallon = 4 Quarts
1 Quart = 32 Fl. Oz.	1 Firkin = 9 Gallons
1 Quart = 2 Pints	1 Hogshead = 63 Gallons

METRIC SYSTEM

LENGTH

1 Meter (m) =
- 10 decimeters (dm)
- 100 centimeters (cm)
- 1,000 millimeters (mm)

1 dekameter (dkm) = 10 meters (m)
1 hectometer (hm) = 100 meters (m)
1 kilometer (km) = 1,000 meters (m)

WEIGHT

1 gram (g) =
- 10 decigrams (dg)
- 100 centigrams (cg)
- 1,000 milligrams (mg)

1 dekagram (dkg) = 10 grams (g)
1 hectogram (hg) = 100 grams (g)
1 kilogram (kg) = 1,000 grams (g)

1 metric ton =
- 1,000 kilograms (kg)
- 1,000,000 grams (g)

VOLUME & CAPACITY

1 liter (l) =
- 1 cubic decimeter (dm^3)
- 10 decileters (dl)
- 100 centiliters (cl)
- 1,000 milliliters (ml)
- 1,000 cubic centimeters (cm^3 or cc)

1 dekaliter (dkl) = 10 liters (l)
1 hectoliter (hl) = 100 liters (l)

1 kiloliter (kl) =
- 1 cubic meter (m^3)
- 1 stere (s)
- 1,000 liters (l)

AREA

1 centare (ca) =
- 1 square meter (m^2)
- 100 square decimeters (dm^2)
- 10,000 square centimeters (cm^2)
- 1,000,000 square millimeters (mm^2)

1 are (a) =
- 1 square dekameter (dkm^2)
- 100 square meters (m^2)

1 hectare (ha) =
- 100 ares (a)
- 10,000 square meters (m^2)

1 square kilometer (km2) = 1,000,000 square meters (m^2)

Other prefixes occasionally used:
micro—one millionth • myria—10,000 times
• deca—10 times (same as deka) • mega—1,000,000 times

FRACTIONAL INCHES CONVERTED TO DECIMAL MILLIMETERS

Fraction of Inch	Decimal Inch	Decimal MM.	Fraction of Inch	Decimal Inch	Decimal MM.	Fraction of Inch	Decimal Inch	Decimal MM.	Fraction of Inch	Decimal Inch	Decimal MM.
1/64	.015625	0.39688	17/64	.265625	6.74689	33/64	.515625	13.09690	49/64	.765625	19.44691
1/32	.03125	0.79375	9/32	.28125	7.14376	17/32	.53125	13.49378	25/32	.78125	19.84379
3/64	.046875	1.19063	19/64	.296875	7.54064	35/64	.546875	13.89065	51/64 .	796875	20.24067
1/16 .	0625	1.58750	5/16	.3125	7.93752	9/16	.5625	14.28753	13/16	.8125	20.63754
3/64	.078125	1.98438	21/64	.328125	8.33439	37/64	.578125	14.68440	53/64	.828125	21.03442
3/32	.09375	2.38125	11/32	.34375	8.73127	19/32	.59375	15.08128	27/32	.84375	21.43129
7/64	.109375	2.77813	23/64	.359375	9.12814	39/64	.609375	15.47816	55/64	.859375	21.82817
1/8	.125	3.17501	3/8	.375	9.52502	5/8	.625	15.87503	7/8	.875	22.22504
9/64	.140625	3.57188	25/64	.390625	9.92189	41/64	.640625	16.27191	57/64	.890625	22.62192
5/32	.15625	3.96876	13/32	.40625	10.31877	21/32	.65625	16.66878	29/32	.90625	23.01880
11/64	.171875	4.36563	27/64	.421875	10.71565	43/64	.671875	17.06566	59/64	.921875	23.41567
3/16	.1875	4.76251	7/16	.4375	11.11252	11/16	.6875	17.46253	15/16	.9375	23.81255
13/64	.203125	5.15939	29/64	.453125	11.50940	45/64	.703125	17.85941	61/64	.953125	24.20942
7/32	.21875	5.55626	15/32	.46875	11.90627	23/32	.71875	18.25629	31/32	.96875	24.60630
15/64	.234375	5.95314	31/64	.484375	12.30315	47/64	.734375	18.65316	63/64	.984375	25.00318
1/4	.25	6.35001	1/2	.5	12.70003	3/4	.75	19.05004	1	1.	25.40005

MILLIMETERS CONVERTED TO DECIMAL INCHES

	INCH EQUIVALENTS									
MILLIMETERS	0	1	2	3	4	5	6	7	8	9
	0.00000	0.03937	0.07874	0.11811	0.15748	0.19685	0.23622	0.27559	0.31496	0.35433
10	0.39370	0.43307	0.47244	0.51181	0.55118	0.59055	0.06299	0.66929	0.70866	0.74803
20	0.78740	0.82677	0.86614	0.90551	0.94488	0.98425	1.02362	1.06299	1.10236	1.14173
30	1.18110	1.22047	1.25984	1.29921	1.33858	1.37795	1.41732	1.45669	1.49606	1.53543
40	1.57480	1.61417	1.65354	1.69291	1.73228	1.77165	1.81102	1.85039	1.88976	1.92913
50	1.96850	2.00787	2.04724	2.08661	2.12598	2.16535	2.20472	2.24409	2.28346	2.32283
60	2.36220	2.40157	2.44094	2.48031	2.51968	2.55905	2.59842	2.63779	2.67716	2.71653
70	2.75590	2.79527	2.83464	2.87401	2.91338	2.95275	2.99212	3.03149	3.07086	3.11023
80	3.14960	3.18897	3.22834	3.26771	3.30708	3.34645	3.38582	3.42519	3.46456	3.50393
90	3.54330	3.58267	3.62204	3.66141	3.70078	3.74015	3.77952	3.81889	3.85826	3.89763
100	3.93700	3.97637	4.01574	4.05511	4.09448	4.13385	4.17322	4.21259	4.25196	4.29133
110	4.33070	4.37007	4.40944	4.44881	4.48818	4.52755	4.56692	4.60629	4.64566	4.68503
120	4.72440	4.76377	4.80314	4.84251	4.88188	4.92125	4.96062	4.99999	5.03936	5.07873
130	5.11810	5.15747	5.19684	5.23621	5.27558	5.31495	5.35432	5.39369	5.43306	5.47243
140	5.51180	5.55117	5.59054	5.62991	5.66928	5.70865	5.74802	5.78739	5.82676	5.86613
150	5.90550	5.94487	5.98424	6.02361	6.06298	6.10235	6.14172	6.18109	6.22046	6.25983
160	6.29920	6.33857	6.37794	6.41731	6.45668	6.49605	6.53542	6.57479	6.61416	6.65353
170	6.69290	6.73227	6.77164	6.81101	6.85038	6.88975	6.92912	6.96849	7.00786	7.04723
180	7.08660	7.12597	7.16534	7.20471	7.24408	7.28345	7.32282	7.36219	7.40156	7.44093
190	7.48030	7.51967	7.55904	7.59841	7.63778	7.67715	7.71652	7.75589	7.79526	7.83463
200	7.87400	7.91337	7.95274	7.99211	8.03148	8.07085	8.11022	8.14959	8.18896	8.22833
210	8.26770	8.30707	8.34644	8.38581	8.42518	8.46455	8.50392	8.54329	8.58266	8.62203
220	8.66140	8.70077	8.74014	8.77951	8.81888	8.85825	8.89762	8.93699	8.97636	9.01573
230	9.05510	9.09447	9.13384	9.17321	9.21258	9.25195	9.29132	9.33069	9.37006	9.40943
240	9.44880	9.48817	9.52754	9.56691	9.60628	9.64565	9.68502	9.72439	9.76376	9.80313
250	9.84250	9.88187	9.92124	9.96061	9.99998	10.03935	10.07872	10.11809	10.15746	10.19683
260	10.23620	10.27557	10.31494	10.35431	10.39368	10.43305	10.47242	10.51179	10.55116	10.59053
270	10.62990	10.66927	10.70864	10.74801	10.78738	10.82675	10.86612	10.90549	10.94486	10.98423
280	11.02360	11.06297	11.10234	11.14171	11.18108	11.22045	11.25982	11.29919	11.33856	11.37793
290	11.41730	11.45667	11.49604	11.53541	11.57478	11.61415	11.65352	11.69289	11.73226	11.77163

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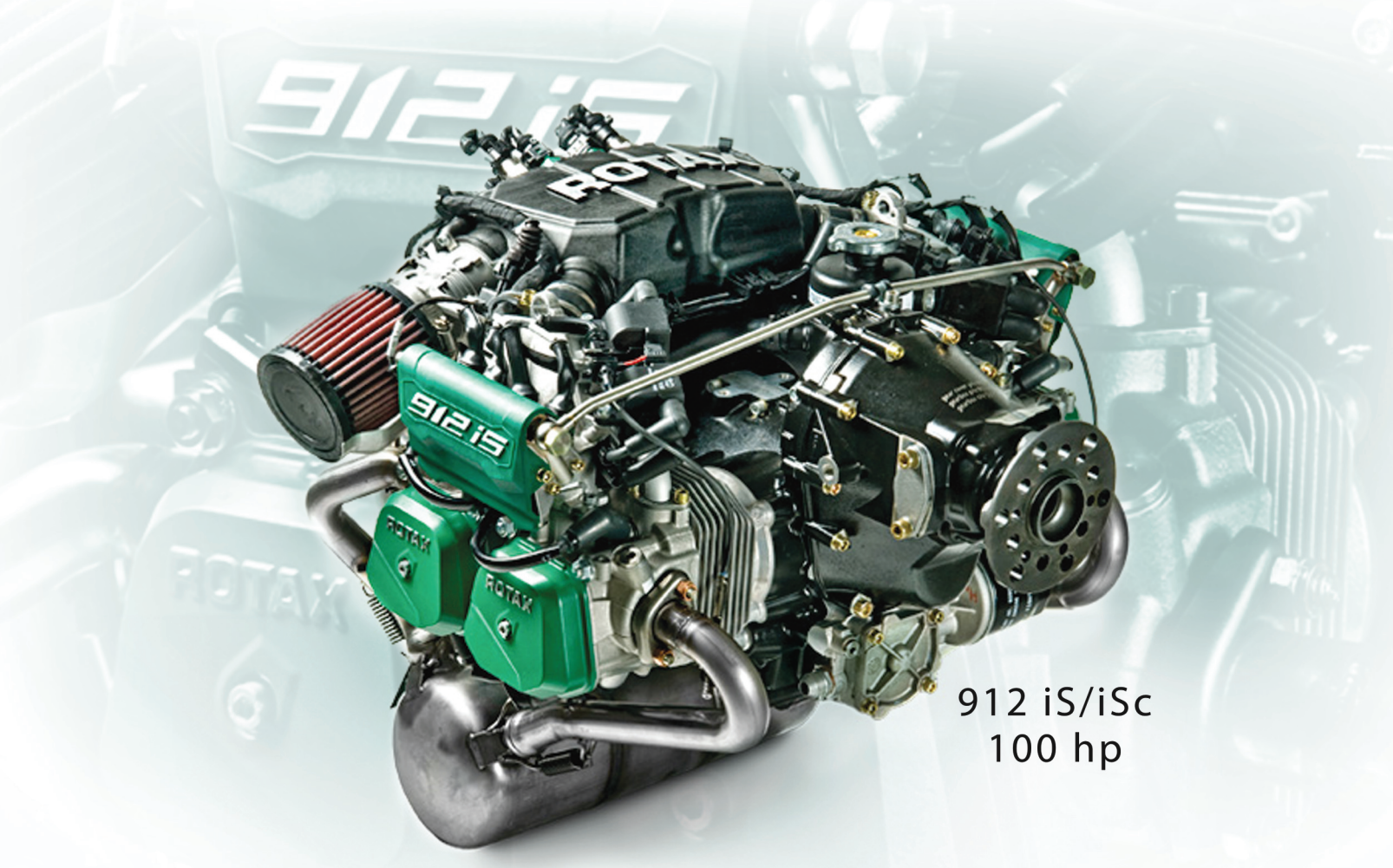
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