

FUEL TANKS

FUEL WARNING SYSTEM



Float-action sensor in tank activates panel warning light when fuel supply is low. All-PBT unit, impervious to aviation fuel. Use AN 867-4 flange for mounting.

Sensor P/N 6905-400 ---
Warning Light P/N 05-17660 ---
Bulb(GE-330) P/N 11-04016 ---

INVERTED PICKUP TUBES



"Flop" tubes for inverted flight are made from Aeroquip 701-6 flexible hose. End fitting swaged onto hose has a 1/4" male

pipe thread attached to tank outlet. Available for any of the tanks listed, or others. Specify tank model and tube length. Minimum length available is 9"

9" P/N 05-20509 --- 10" P/N 05-20510 ---
11" P/N 05-20511 --- 12" P/N 05-20512 ---
13" P/N 05-20513 ---

PICKUP TUBE ADAPTER

Specially machined AN912 fitting for connecting pickup tube to fuel tank. For 12" tubes & longer P/N 10380 ---

Specially machined AN912-12D for shorter than 12" P/N 10380-1 ---

FLOP TUBE ADAPTER WITH SIDE OUTLET



This fitting eliminates the need to put an angle fitting on standard adapter. 1/4" female pipe thread on side and bottom & 1" male pipe or 3/4" male pipe on bottom. Use with AN867-6 or 8.

1" Male Pipe P/N 05-20525 ---
3/4" Male Pipe P/N 05-20526 ---

ALUMINUM WELDING FLANGES



| Part No. | Female Pipe Thread | Dia. "D" In | Height "H" In | Price Each |
|----------|--------------------|-------------|---------------|------------|
| AN867-1 | 1/8" | 1-1/2 | 7/16 | --- |
| AN867-2 | 1/4" | 1-3/4 | 5/8 | --- |
| AN867-3 | 3/8" | 1-7/8 | 5/8 | --- |
| AN867-4 | 1/2" | 2 | 3/4 | --- |
| AN867-6 | 3/4" | 2-1/4 | 13/16 | --- |
| AN867-8 | 1" | 2-11/16" | 1" | --- |

FINGER STRAINERS



Finger strainers are strainers for fuel tank outlets. Standard size features a brass fitting with 3/8" male pipe thread which fits AN867-3 welding flange, and 1/4" female pipe thread for valve or fuel line fitting. Screen is 16 mesh brass.

Large finger strainer has a 3/8"-NPT x 1/2"-M-NPT brass bushing with a T304 stainless steel screen.

Standard P/N 05-17700 Large P/N 05-04445 ---

RAVEN HEADER TANKS



Header tank used for any aerobatic aircraft such as Pitts Specials etc. Comes with weld-in fitting for main tank. 16" x 7" in diameter. Holds approximately 2.5 gallons. Weighs 3 lbs P/N 05-00913 ---



RAVEN WING TANKS

Wing tank used to hold extra fuel or smoke oil in top wing of aerobatic biplanes.

S1-S Wing Tank P/N 05-00914 ---
S1-C Wing Tank P/N 05-00915 ---
Experimental S2, Eagle Wing Tank P/N 05-00916 ---

STRUT FOOTBALL FUEL TANKS



5 gallon strut tank with filler cap and pick up cap. Made from see through Cross Link Polyethylene (XLPE) which prevents material breakdown due to ethanol use. This tank may be mounted right on the strut and allows for easy access for filling and viewing to check fuel levels. Experimental Only P/N 05-12347 ---

MICROGRID LIGHTNING STRIKE PROTECTION



MicroGrid precision expanded strike protection in composite aircraft structures. In fact, MicroGrid is used by Boeing, Embraer, and many other aircraft manufacturers. MicroGrid's single unit structure is superior because it can't unravel like woven wire. Nor is costly material removed as in etching or stamping.

The appropriate gauge and pattern of material is easily adhered to the composite for 200,000 amps of conductivity. Aircraft are easily repaired after a lightning strike by simply sanding away the surface to apply a patch of new MicroGrid. And fantastically flexible MicroGrid easily conforms to a variety of shapes and contours in both manufacture and repair. It can be bent, shaped and laminated with a variety of materials, including those which expand, contract and flex.

ALUMINUM OR COPPER MICROGRID

Aluminum MicroGrid is ideal for most composite aircraft structure applications and is nearly half the weight of the copper MicroGrid. Copper MicroGrid is recommended for use with carbon fiber structures. Two layers of MicroGrid are recommended over fuel tank applications.

Aluminum MicroGrid (37" wide) P/N 05-02631 --- ft.
Copper MicroGrid (18" wide) P/N 05-02632 --- ft.

| | Aluminum | Copper |
|----------------------|------------|------------|
| Weight - Lbs./SF | 0.016 | 0.029 |
| Base Metal Thickness | 0.004 inch | 0.003 inch |
| LWD | 0.080 inch | 0.125 inch |
| Overall Thickness | 0.006 inch | 0.005 inch |
| Open Area | 68% | 77% |

ALUMINUM FUEL TANKS



PITTS SPECIAL FUEL TANK

OPTIONAL TANK INSTALLATIONS

Sight Gauge (Fittings and Tubing) for Pitts or Skybolt Tanks - no installation charge.

P/N 05-29000 ---

FLOP TUBE, LOW FUEL LEVEL WARNING, FLUSH FILLER CAP ARE AVAILABLE. CALL FOR PRICING.

FUEL TANK HOLD DOWN STRAPS

Fabricated from .035 stainless steel. Straps are 1" wide x 36" long. For VariViggen Starduster & others P/N 05-20400 ---

ANTI-CHAFE CHANNEL FOR FUEL TANK STRAPS

Neoprene rubber extrusions to hold 1" wide metal fuel tank straps.

#9 Channel P/N 05-01800 --- Ft.

| Design | Capacity (Gallons) | Main Tank | Part No. | Tank for Inverted Flight | Part No. | Each Wing Tank | Part No. |
|-----------------|--------------------|-----------------------|----------|--------------------------|----------|----------------|----------|
| Acro-Sport II | 24 | --- | --- | --- | 05-18510 | --- | --- |
| Baby Greatlakes | 10 | --- | 05-03058 | --- | --- | --- | --- |
| Cougar | 23 | --- | 05-18600 | --- | --- | --- | --- |
| Cuby | 12.5 | --- | 05-18700 | --- | --- | --- | --- |
| EAA Bi-Plane | 16 | --- | 05-18800 | --- | --- | --- | --- |
| Fly Baby | 14 | --- | 05-18900 | --- | --- | --- | --- |
| Hatz Bi-Plane | 18 | --- | --- | --- | --- | --- | 05-19020 |
| Mustang I | 16 | --- | 05-19100 | --- | --- | --- | --- |
| Mustang II | 27 | --- | 05-19200 | --- | --- | --- | --- |
| Pitts Special | 19 | --- | --- | --- | 05-19310 | --- | --- |
| Pober Pixie | 12 | (Send Drwg. 05-19400) | --- | --- | --- | --- | 05-19420 |
| Skybolt | 29 | --- | --- | --- | 05-19510 | --- | 05-19520 |
| Smith Miniplane | 16 | --- | 05-19600 | --- | --- | --- | --- |
| Starduster I | 18 | --- | 05-19700 | --- | 05-19710 | --- | 05-19720 |
| Starduster II | 26 | --- | 05-19800 | --- | 05-19810 | --- | 05-19820 |
| Tailwind | --- | --- | 05-19950 | --- | --- | --- | --- |

SEE PRO-SEAL TANK SEALANT AND SLOSHING COMPONENTS IN COVERING SUPPLIES SECTION

CAUTION: Electric sender should not be installed in a tank with flop tube to prevent possible entanglement. Tank should be free of everything but flop tube. Use sight gauge with flop tube. Prices are based on tanks manufactured to the original plans as issued by the designer. Minor modifications such as changes in tank fitting sizes or locations can be made at additional charge. Please submit all pertinent data with respect to desired changes at time of order.

ALLOW 2-3 WEEKS DELIVERY TIME ON ALL TANKS.

**CUSTOM TANKS AVAILABLE: SEND BLUEPRINT OR SKETCH FOR QUOTATION
ADD \$15.00 BOX CHARGE FOR CRATING TANKS FOR SHIPMENT**