This accessory kit for Lycoming engines provides normal engine lubrication with minimal oil loss during aerobatic flight. It functions as a self-contained extension of the normal engine oil and breather systems. Can be installed in a few hours without engine disassembly.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>801-4</td>
<td>For four-cylinder engines. Includes 810-5 Oil Strainer Fitting, 810-R Oil Return Fitting, 804-S Sump Fitting (vertical type) with crush gasket and 811-1 Oil Strainer Fitting. Weight: 0.10 lb. installed.</td>
<td>$1,025.00</td>
</tr>
<tr>
<td>801-6</td>
<td>For six-cylinder engines. Includes 810-5 Oil Strainer Fitting, 810-R Oil Return Fitting, 804-S Sump Fitting (vertical type) with crush gasket and 811-1 Oil Strainer Fitting. Weight: 0.10 lb. installed.</td>
<td>$1,077.00</td>
</tr>
<tr>
<td>811-V</td>
<td>For vertical-screen Sump engines. Includes 810-5 Oil Strainer Fitting, 810-R Oil Return Fitting, 804-S Sump Fitting (vertical type) with crush gasket and 811-1 Oil Strainer Fitting. Weight: 0.10 lb. installed.</td>
<td>$419.00</td>
</tr>
<tr>
<td>811-A</td>
<td>For horizontal-screen sump engines. Includes 810-5 Oil Strainer Fitting, 810-R Oil Return Fitting, 805 Sump Plug with insertion tool, 804-S Sump Fitting (vertical type) with crush gasket and 811-1 Oil Strainer Fitting. Weight: 0.16 lb. installed.</td>
<td>$554.00</td>
</tr>
<tr>
<td>811-S</td>
<td>For horizontal-screen sump engines. Includes 810-5 Oil Strainer Fitting, 810-R Oil Return Fitting, 805 Sump Plug with insertion tool, 804-S Sump Fitting (vertical type) with crush gasket and 811-1 Oil Strainer Fitting. Weight: 0.16 lb. installed.</td>
<td>$469.00</td>
</tr>
</tbody>
</table>

**CHRISTEN 801 INVERTED OIL SYSTEM**

- **CHRISTEN 801 BREATHER ADAPTER**
  - Stainless steel welded and powder coated aluminum assembly designed to save oil vs. direct overhead crankcase breathers in normal flight operations. Features an extra-high-volume design offering enhanced inverted flight performance in entry-level aerobatic aircraft, allowing oil to be retained and returned to the engine during short-duration inverted and limited negative G maneuvers. The new design makes it a perfect fit for Sonex Aircraft angled firewalls, while retaining compatibility with traditional vertical firewall installations in other aircraft. Offers ease of installation.
  - **Price**: $128.75

**PIPER/BEECH OIL QUICK DRAIN PROBE**

- 90 degree, leak proof. An alternative to the high priced AVI probe but it includes some major improvements.
  - The first big improvement is that the probe is leak proof. The AVI design could leak where it mates to the valve plunger making a mess. The new design incorporates an O-ring seal around the valve body preventing leaks. The O-ring also locks the probe to the valve body. The second big improvement is the addition of a larger drain tube to speed up the oil flow and prevent restrictions. 09M-PRB180 replaces P/N: Piper PN 481-357, Beechcraft PN 107-81, Auto Valve Inc. AVI PN 12-0329...
  - **Price**: $73.50

**PIPER/BEECH OIL QUICK DRAIN PROBE**

- Raven systems consist of the valve with three pipe plugs, tank, mount, and clamps. The tank is constructed from aluminum, and is Tig welded using stainless steel internal parts prevent corrosion. Valve is machined from solid aluminum, and all parts are powder coated black or white. Valve is 5-1/2" x 1-1/2" x 1-1/2" wide & weighs 1.85 lbs. 5" tank is for 4 or 6 cylinder applications, and 4" tank is for 4 cylinder applications only.
  - **Price**: $724.00

**RAVEN BASIC INVERTED OIL SYSTEM**

This drain probe not only gives you an alternative to the high priced AVI probe but it includes some major improvements. The AVI design could leak where it mates to the valve plunger making a mess. The new design incorporates an O-ring seal around the valve body preventing leaks. The O-ring also locks the probe to the valve body. The second big improvement is the addition of a larger drain tube to speed up the oil flow and prevent restrictions. 09M-PRB180 replaces P/N: Piper PN 481-357, Beechcraft PN 107-81, Auto Valve Inc. AVI PN 12-0329...
- **Price**: $73.50

**RAVEN INVERTED SYSTEM VAC ADAPTERS**

- These vac adapters are machined from solid aluminum with anodized finish. Used with a seal installed, and complete with AN fitting and gaskets. Vac-4 for 4 cyl Lycomings...
  - **Price**: $249.00

**RAVEN SUMP FITTING KITS**

- These sump fitting kits come with specialized fittings, washers, O rings needed to install the kit. Sump kit for Horizontal screen 4 or 6 cyl.
  - **Price**: $83.75

**AIRCRAFT FILTER DRIP TRAY**

- For engines that have horizontal oil filters, this system will eliminate the problem of oil dripping down into the engine and on the firewall while the filter is being removed. A tray is supplied that catches the oil coming from the engine flange and filter while it is being unscrewed. The oil in the tray pours down a hose connected to the bottom of the tray. The filter can now be removed and thrown away. This kit includes the weld-in aluminum tray and hose. Full set of instructions included...
  - **Price**: $279.00

**CHRISTEN OIL VALVE**

- Multiple port gravity operated ball valve. It is cast aluminum with textured white epoxy enamel finish and all internal steel parts are cadmium plated. Normally installed on firewall or engine mount. Designed for fittings to be installed either at side or front or both. Requires 3 AN816-10D nipples for hose connection. Weight: 1.75 lbs. installed.
  - **Price**: $367.00

**CHRISTEN OIL SEPARATOR**

- Features welded aluminum construction with a textured white epoxy enamel finish. All internal parts are cadmium plated, and unit includes steel polishing clamps. Normally installed on fire wall or on engine mount. Requires 2 AN842-120D or 160D hose elbows and one AN823-10D hose fitting. Weight: 2.8 lbs. installed. Applicable to all Lycoming engine applications. Used to replace a worn out or broken oil separator on Christen 801-4 systems only.
  - **Price**: $469.00

**AIRCRAFT SPRUCE WEST**

- CORONA, CA • (877) 4-SPRUCE

**AIRCRAFT SPRUCE EAST**

- PEACHTREE CITY, GA • (877) 477-7823

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10-page detailed manual - describes system operation & procedure for selecting proper components for each engine model. P/N 05-20600......................$17.50 ea.