

UL Power UL350 Series Engine Installation

Section # 7

Battery & Air Oil Separator Installation

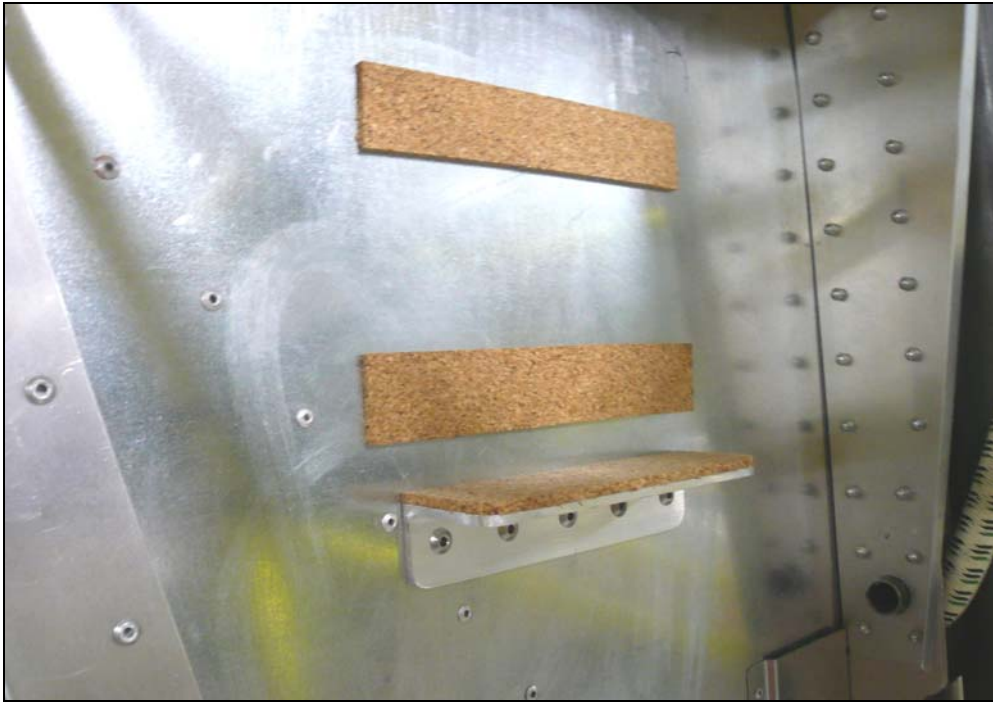


UL Power aircraft engines are manufactured and supported by UL Power Aero Engines of Belgium. Read and understand the UL Power manuals completely before starting with the engine installation, as they contain important engine installation, operation and maintenance information. Follow all of the important safety information provided in the UL Power manuals regarding the installation, operation and maintenance of the UL Power engine. Read and understand the UL Power Operating Manual before starting the engine.

Make sure that your engine is registered with UL Power or an authorized distributor so that the factory warranty is in effect. In the United States, the UL Power distributor is UL Power North America: <http://www.ulpower.net>. Contact a UL Power distribution or service partner if you do not understand the instructions or if you have any additional questions. Maintain copies of the manuals with the aircraft in case of sale. Obtain current versions of the manuals from the official UL Power website, as well as current service and maintenance information: www.ulpower.com

If a discrepancy arises between the information provided by UL Power and the following pages, the UL Power manuals and/or service information and instructions take precedence. Zenith Aircraft Company does not manufacture or directly support engines.

Note: Different engines will affect performance, specifications, and flight characteristics of the aircraft. Also, the weight and balance of the aircraft will be affected by different engines and the fuel system per the drawings may not be adequate or suitable for some engines.



P/N: BSPC625
Battery Support

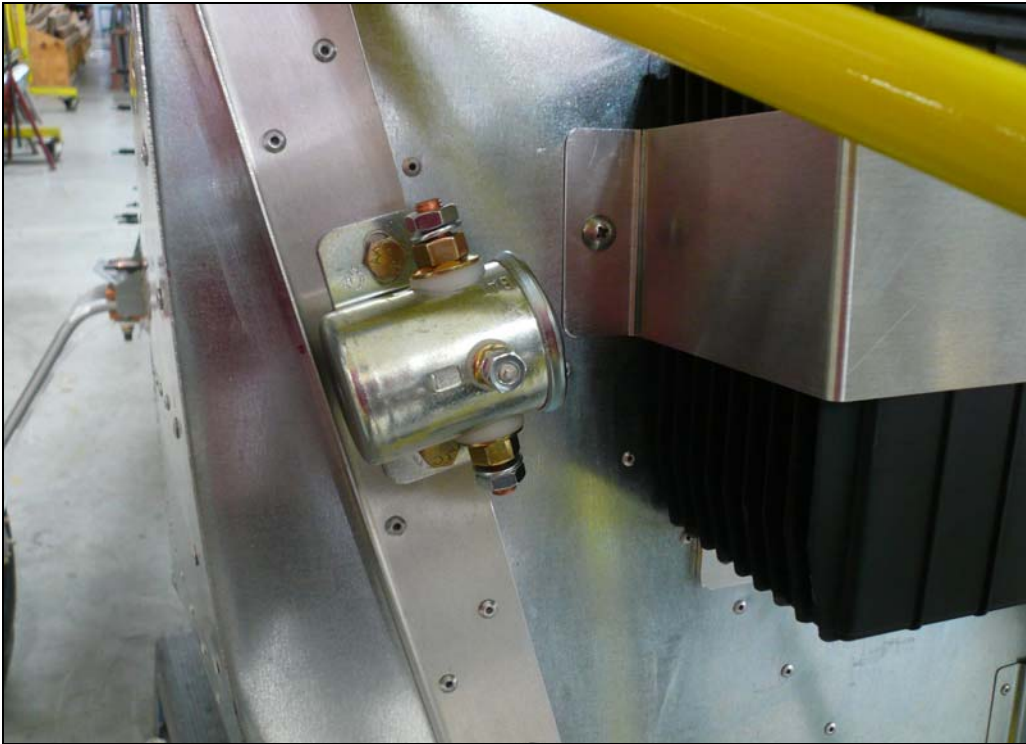
Locate the Battery Support Bracket on the right side of the firewall. Measure up from the bottom of the firewall 270mm. And from the firewall center measure 220mm to the center of the bracket. Check to make sure that the battery fits proper on the firewall. Drill and rivet using AS5 5/32 Stainless Steel Rivets.



P/N: BATS
Battery Strap

P/N: Odyssey PC 625

Before mounting the battery you will need to add cork to the battery support and the battery strap. Position the Battery on the support and position the strap 2/3 up on the battery. Locate and drill the nut plate on the firewall and the strap. Rivet the nut plate using A3 rivets. And the strap will be held using Washer Head Screw.



P/N: 24115
Master Soleniod

Locate the Master Soleniod on the Firewall beside the Battery using two AN4-5A bolts.



P/N: 7113K251
Ring Terminal

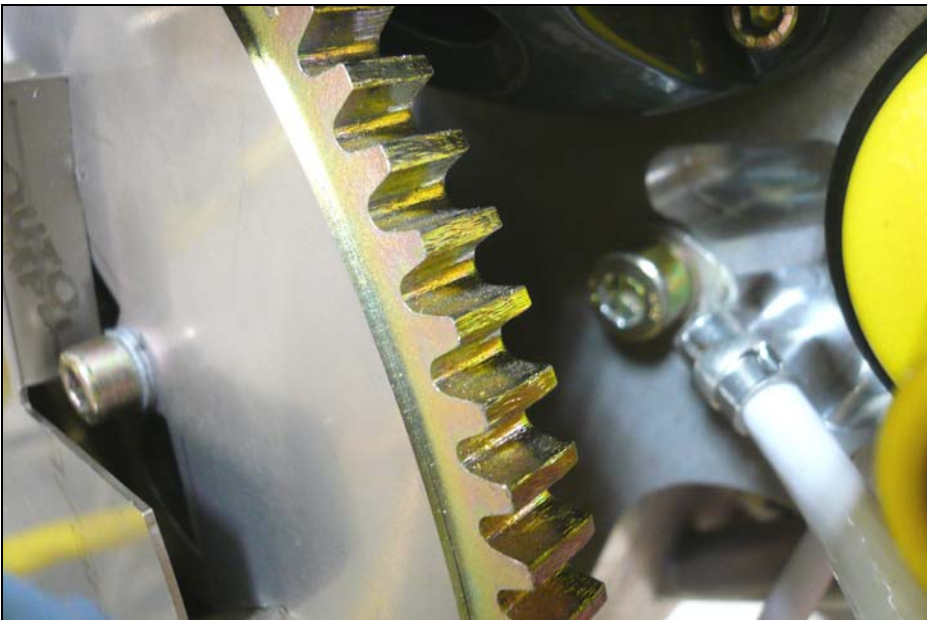
Crimp the ring terminal with a good quality Hand Swager tool.



P/N: 4 Gauge Cable

P/N: 8 Gauge Cable

Wire the Solenoid to the battery and the Starter Motor. The top post is marked Batt which is wired to the POS (+) side on the Battery. The center is wired to the Key Switch on the panel. And the lower is wired to the Starter Motor. You will also need to ground the Engine to the Airframe. Use the bolt on the Solenoid base to ground the engine. Use 4 Gauge Wire for the Starter and Battery and 8 Gauge for the Ground wires.



Ground cable is attached to engine mount plate with an M6 bolt. It is located behind the flywheel.



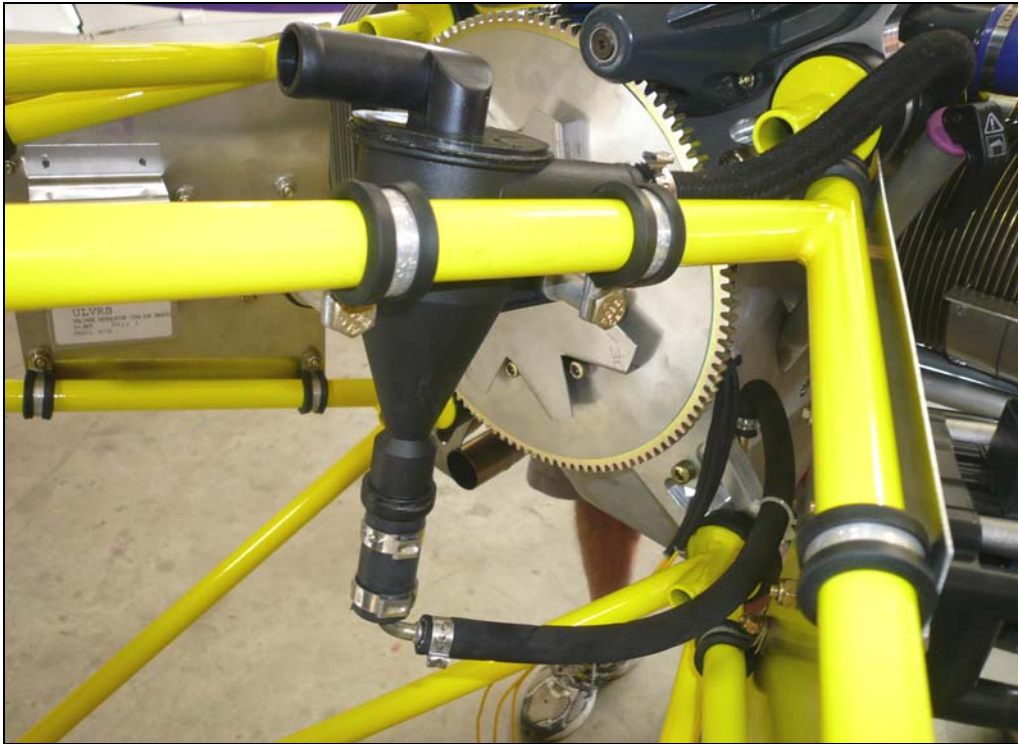
Secure the Pos. Wire to the Starter Soleniod with a self locking nut.



P/N: MS21919-DG12
Adel Clamps

P/N: MS21919-DG
Adel Clamps

Secure the wires using the Adel Clamps



P/N: Oil/Air Separator

Mount the Oil/Air Separator and Breather to the engine mount using Adel Clamps. Connect the oil return tube to the engine return side.



Use Oetiker Crimping Pliers to tighten the Hose Clamps.