

»» Service Letter

Technical Aspects are FAA Approved

Number: L12-05 A
INITIAL RELEASE

Date: 12/12/2012

Subject: Customer Specification Engine Description and Service Information

Application:

This Service Letter is applicable to Customer Specification engines as designated by a Customer Specification Number suffixed to the Engine Model Number (Example O-360- A3A2 **S1**). The Customer Specification Number suffix indicates that there is a variation in the starter, oil filter adapter, fuel pump, or alternator from that which is supplied with the basic model engine.

Compliance:

At any time repair or replacement of a starter, oil filter adapter, fuel pump cover, or alternator is required on a Customer Specification Engine.

Customer Specification Engine Descriptions:

The following tables describe the accessory variations for engines bearing Customer Specification Number suffixes **S1**, **S2** and **S3**:

Customer Specification Number S1 (O-360 series engines only)		
Engine Variations From Standard	Part Numbers of Components Supplied	Notes
No Oil Filter Adapter or Oil Filter is Supplied	The Vernatherm Oil Temp Valve, P/N SL53E19600 only, is supplied by Superior. Refer to the airframe Illustrated Parts Catalog and Maintenance Manual for Oil Filter Adapter and Oil Filter replacement parts and service information	The Airframe Mfr. has provided a remote mounted oil filter adapter and oil filter and certified them as part of the airframe Type Certificate
Gravity Flow Fuel System, No Fuel Pump is Supplied	<ul style="list-style-type: none"> • Fuel Pump Cover Plate, P/N SL3D23350, Qty 1 • Hex Bolt, 3/8-16 X 3/4, P/N MS90725-58, Qty 2 • Lock Washer, 3/8 I.D., P/N MS35333-42, Qty 2 • Accessory Idler Gear, P/N SL74996, Qty 1 (Replaces P/N SL75072) 	Airframe Mfr. has complied with FAR 23.955(b), Gravity system under the airframe Type Certificate.

Customer Specification Number S2		
Engine Variations From Standard	Part Numbers of Components Supplied	Notes
24 VDC Starter	Starter P/N 149-24LS	For airframe with 24 VDC electrical system
24 VDC, 70 Amp, Alternator	<ul style="list-style-type: none"> • Alternator Kit, P/N AL24-70 • Vee Belt, P/N SL76026 	Alternator kit includes all mounting brackets and fasteners. For airframe with 24 VDC electrical system

Customer Specification Number S3 (O-360 series engines only)		
Engine Variations From Standard	Part Numbers of Components Supplied	Notes
High Torque Starter	Starter P/N 149-12HT	Provides additional clearance forward of starter
Right Angle Oil Filter Adapter	Oil filter Adapter P/N AEL22772 (Replaces P/N SL2157). All other oil system components are unchanged.	Provides additional clearance to the rear of the oil filter
Gravity Flow Fuel System, No Fuel Pump is Supplied	<ul style="list-style-type: none"> • Fuel Pump Cover Plate, P/N SL3D23350, Qty 1 • Hex Bolt, 3/8-16 X 3/4, P/N MS90725-58, Qty 2 • Lock Washer, 3/8 I.D., P/N MS35333-42, Qty 2 • Accessory Idler Gear, P/N SL74996, Qty 1 (Replaces P/N SL75072) 	Airframe Mfr. has complied with FAR 23.955(b), Gravity system under the airframe Type Certificate.

Maintenance and Overhaul Information:

With exception of the starters, alternator and oil filter adapter listed below, all maintenance and overhaul data for these engines is covered by Superior Vantage Maintenance, P/N SVMM01 and Superior Vantage Overhaul Manual, P/N SVOHM01, available at web site www.superiorairparts.com.

Starters: The P/Ns 149-24LS and 149-12HT are manufactured by Sky-Tec Partners, Ltd, 350 Howard Clemmons Rd, Granbury, Texas 76048, phone 1-800-476-7896 and website <http://www.skytecair.com/>. All maintenance and repair information for these starters is available through the above manufacturer.

Alternator: The P/N AL24-70 is manufactured by Plane Power, Ltd, 346 Howard Clemmons Rd, Granbury, Texas 76048, phone 1-877-934-5700 and website <http://www.plane-power.com/>. All maintenance and repair information for this alternator is available through the above manufacturer.

Oil Filter Adapter: The P/N AEL22772 is manufactured by Engine Components, Inc, 9503 Middlex, San Antonio, Texas, 78217, Phone 1-800-324-2359 and website www.eci2fly.com. All maintenance and repair information for this oil filter adapter is available through the above manufacturer.