

TELEDYNE CONTINENTAL<sup>®</sup> AIRCRAFT ENGINE  
**SERVICE INFORMATION LETTER**  
 Contains Useful Information Pertaining To Your Aircraft Engine

**CATEGORY 5**

**SIL08-10**

Technical Portions FAA  
 Approved

**SUBJECT: Precision Airmotive, LLC SIL RS-88. RSA5, RSA10 Servo inspections of Hex Plug Gasket**

**PURPOSE: To alert all operators of potential service issues with regulator plugs used on RSA5 and RSA10 Fuel Injection Servo Units.**


**MODELS**

**AFFECTED: All RSA5 and RSA10 NOT inspected and identified as set forth in prior bulletin PRS107 Revision's 1-3, TCM Bulletin MSB08-2, AD 2006-06-51**

Precision Airmotive, LLC has issued Service Information Letter SIL RS-88 expanding the inspection of regulator hex plugs as set forth in prior bulletin PRS-107 Rev1 through 3. SIL RS-88 includes additional RSA5 and RSA10 Fuel Injection Servo Units to be inspected. Information from the field has reported that RSA5 and RSA10 Servo units outside the prior reported dates of manufacture, appear to have contained "loose" regulator plugs.

The attached Service Information Letter contains detailed instructions outlining actions to be completed on your aircraft engine.

All questions concerning this bulletin should be directed to Precision Airmotive LLC through their website: [www.precisionairmotive.com](http://www.precisionairmotive.com) or via telephone at 361-651-8282, Product Support.

ISSUED			REVISED			 <b>Teledyne Continental Motors, Inc.</b> <small>A Teledyne Technologies Company</small> P.O. Box 90 Mobile Alabama • 251-438-3411	PAGE NO	REVISION
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07	07	2008					SIL 08-10	

# PRECISION AIRMOTIVE LLC Service Information Letter - Fuel Systems

SIL RS-88  
SMALL RECIPROCATING ENGINES  
RSA-5 and RSA-10  
Issued: 6/16/08  
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## SUBJECT: Inspection of Regulator Hex Plug on RSA-5 and RSA-10 Fuel Injection Servos.

PURPOSE: To alert operators to potential service issues with regulator hex plugs on RSA-5 and RSA-10 Fuel Injection Servos.

- A. EFFECTIVITY: This Service Information Letter is applicable to all RSA-5 and RSA-10 servos which do NOT have a “G” marked on the regulator hex plug (see photograph page 2.).
- B. DESCRIPTION: Precision Airmotive LLC has received information from the FAA relating to our Service Bulletin PRS-107. In response to PRS-107, operators have reported to the FAA finding “loose” regulator hex plugs on fuel injection servos that do not appear to fall within the date range specified on that bulletin. Quantification of “loose” has been anecdotal in nature and it is therefore unknown how that determination was made. Nonetheless, to ensure safety, Precision recommends that the servos on all aircraft be inspected at each periodic inspection as set forth below.
- C. DETAILED INSTRUCTIONS: If your aircraft has an RSA-5 or RSA-10 fuel injection servo that is NOT marked with a “G” on the regulator hex plug, during each annual or other periodic inspection (but at least annually) the regulator hex plug on the fuel injection servo should be inspected to verify that it is not loose. The regulator hex plug is a 1” brass hex plug on the large round cover on the side of the fuel injection servo. (See photograph page 2.)

Determining if the plug is loose requires more than just a visual inspection. The inspection should be accomplished by attempting to move the plug with a single finger. Do not use a wrench, grip the plug, or in any other way apply significant torque to the plug. If the plug does not move, it is acceptable.

If the plug does move, one of the two following steps **must** be taken: (1) The servo can be removed and sent to a qualified repair station for repair, or (2) the servo can be repaired on the aircraft as follows:

1. Carefully cut and remove the safety wire that spans between the regulator hex plug and regulator cover only.
2. Remove hex plug.
3. Examine the threads on the hex plug and regulator cover for damage. Threads should not show signs of excessive wear. The hex plug outer diameter threads should also measure within .740-.750 inches. If the condition of the threads is suspect in any way, please contact Precision Airmotive Product Support.
4. If the threads on either the hex plug or regulator cover are excessively worn or don’t measure within the aforementioned dimensions the servo must be removed and sent to a qualified repair station for repair.
5. If the threads on both the hex plug and the regulator cover are acceptable, obtain a new gasket, Precision Airmotive part number 2577258. Discard the old gasket.

6. Stamp or scribe the letter “G” onto the face of the hex plug as shown in the sample photos. This shall be done with the plug removed from the servo. DO NOT stamp the plug with it installed in the servo.
7. With an acceptable hex plug and an acceptable regulator cover and the new 2577258 gasket, install the gasket over the hex plug and install plug into the regulator cover. Torque the hex plug to 90-100 in-lbs.
8. The hex plug must be safety wired with .015 thru .025 inch diameter wire to the regulator cover as shown in the photos below. The wire shall pass thru the plug such that it pulls the plug in the tightened direction and does not rest on the corners of the hex on the plug (it is acceptable to wrap under the corners of the hex plug). These photos are just two examples of acceptable safety methods. Other safety wire methods such as those described in FAA AC 43-13-1B (or latest revision) are also acceptable.
9. Ensure that any other safety wire on the servo that may have been damaged when removing the hex plug safety wire is replaced.
10. Enter in the engine log book the date the 2577258 gasket was installed and a “G” was marked on the regulator hex plug per this Service Information Letter, SIL RS-88. Further inspections per this SIL are no longer required.

