

Service Information Letter - Fuel Systems

SMALL RECIPROCATING
ENGINES
All RS/RSA
No. RS 34
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SUBJECT: USE OF UNAUTHORIZED PARTS IN PRECISION AIRMOTIVE FUEL INJECTION SYSTEMS.

- A. EFFECTIVITY: This Service Information Letter is applicable to all aviation fuel injection systems (RS and RSA series) manufactured by Precision Airmotive Corporation or its predecessors, Bendix Engine Controls Division of Allied-Signal Inc.
- B. REASON: This Service Information Letter is issued to remind owners, operators, overhaulers, and repairers of Precision Airmotive Corporation RS and RSA fuel injection systems of the possible adverse consequences of the use of **UNAUTHORIZED** parts in those systems.
- C. BACKGROUND INFORMATION: Earlier this year Parts Manufacturing Approval ("PMA") was granted by the FAA to Goode Engineering Corp. for the manufacture of certain replacement parts for RSA-10 Series Fuel Injection Systems.

The PMAs for these parts are based on test and analysis. This means that the approvals for the parts are based on design and performance criteria proposed by Goode and accepted by the FAA. Such criteria is different from the design and performance criteria established by Precision and its predecessor, Bendix Engine Controls, and does not incorporate the knowledge gained from hundreds of thousands of hours of service experience.

Precision Airmotive obtained production versions of some of the Goode PMA parts and had them subjected to examination and testing. Our conclusion and belief is that the parts examined are so inferior to parts previously approved for use in RSA-10 series fuel injection systems that their use in RSA-10 series systems may raise immediate safety of flight concerns and, at the least, compromise the ability of users to safely operate those systems to the TBOs established by Precision Airmotive and the engine manufacturers.

- D. DESCRIPTION: A Genuine Precision Airmotive Part is a part which has been manufactured by or on behalf of Precision Airmotive Corporation or the previous manufacturer, Bendix Engine Controls, in accord with detailed, FAA approved specifications, drawings, and inspection requirements. Parts manufactured by Goode Engineering Corporation, or others, are not authorized by Precision Airmotive for use in Precision Airmotive Fuel Metering Equipment, even if such parts have

FAA-PMA approval. These **UNAUTHORIZED** parts are not subject to the strict tolerances, manufacturing processes, and inspections called for in Precision Airmotive specifications, drawings, and inspection requirements.

- E. WARRANTY AND LIABILITY INFORMATION: The use of **UNAUTHORIZED** parts in Precision Airmotive (Bendix) RS and RSA Fuel Injection Systems constitutes an alteration or modification and voids all warranties. Precision Airmotive will accept no warranty or tort liability for fuel injection systems containing **UNAUTHORIZED** parts. The operator and/or overhaul facility responsible for installation of **UNAUTHORIZED** parts should expect to have the sole and full liability for property damage or injury, including death, arising from any malfunction of the fuel injection system in which such parts are installed.
- F. PUBLICATIONS AFFECTED: The current warning in the RS and RSA overhaul manuals will be amended as follows:

WARNING: The Use Of Unauthorized Parts In This Model Fuel Injection System Can Cause Product Malfunctions Which Could Result In Damage To, Or Destruction Of, Equipment And Injury To And/Or Death Of Personnel. Use Only Precision Airmotive Corporation Replacement Parts As Specified In The Parts Breakdown Section.