



3220 100TH ST. SW BLDG E
EVERETT, WASHINGTON 98204
FAA-PMA FACILITY #PQ111NM

Service Bulletin Fuel Systems

Bulletin No.: PRS-104

Date 1/31/00

SUBJECT: AUSTRALIAN AV-GAS CONTAMINATION

REFERENCE: AUSTRALIAN (CASA) A.D./ GENERAL/ 80 and 81
FUEL DE-CONTAMINATION

SECTION I - PLANNING INFORMATION

A. EFFECTIVITY:

All aircraft with Precision / Bendix RS/RSA Fuel Injection Servo's, Flow Dividers and, or Distributor Valves and Nozzle Assemblies which are subject of referenced A.D.s and shown to be contaminated through approved testing procedures.

B. REASON:

To clarify Factory recommended action concerning RS/RSA Fuel Injection systems contaminated with fuel containing Ethylene Di-Amine (EDA). EDA is known to attack brass, fluorosilicone, and fluorocarbon, all of which are used in the RS/RSA Fuel Injection Systems.

C. DESCRIPTION:

Due to limited information concerning the affects of subject contamination at this time, Precision Airmotive recommends, in order to ensure the safety of the fleet, the following procedures.

Precision/Bendix RS/RSA Fuel Injection Servos:

Replacement of Servo, notification of part number and serial number to CASA and, or, to Precision Airmotive, and the quarantine of the removed unit until such time as the future airworthiness of the unit can be determined, or, overhaul per section 11, D-2.

RS/RSA Flow Dividers and Distributor Valves, if installed:

Replacement of Flow Divider or Distributor Valves and all fittings, notification of part number and serial number to CASA and, or, to Precision Airmotive, and the quarantine of the removed units until such time as the future airworthiness of the unit can be determined, or, overhaul per section 11, D-2.

RS/RSA Fuel Injection Nozzles, if installed:

Remove and replace all nozzle assemblies and discard all contaminated components.

Prior to operating engine with replacement Fuel Injection components, verify entire aircraft fuel delivery system has been cleaned of further contamination.

D. COMPLIANCE:

Prior to next flight.

E. MATERIAL AVAILABILITY:

Replacement components are available through any Precision authorized distributor as listed below.

In Australia:

Aviall -

Superior Air Parts

Celsius/Hawker Pacific, Bankstown Airport (Factory Approved Warranty Repair Station)

In New Zealand:

Aviall

Aeromotive Corporation

SECTION II – ACCOMPLISHMENT INSTRUCTIONS:

- A) Remove Servo, Flow Divider or Distributor Valve, Nozzle Assemblies and all fittings per applicable airframe / engine manual.
- B) Store removed components in a safe place and notify Precision Airmotive and CASA of model numbers, part numbers and serial numbers of removed components.
- C) Verify that entire fuel delivery system including fuel lines, tanks, pumps, filters, etc. in aircraft are free of contaminants per recommendations from airframe manufacturer, engine manufacturer and CASA, or by whatever means necessary to ensure no additional contamination is introduced into the Servo, Flow Divider, Distributor Valve, or Nozzle Assemblies.
- D) 1. Install replacement Fuel Injection components per applicable manuals.
2. "Servo" may be reused if overhauled per applicable manual and all brass components are replaced, including bellows, jets, bleeds, etc.
"Flow Dividers" may be reused if overhauled per applicable manual.
"Distributor Valves" and "Discharge Nozzles" may be reused if overhauled per applicable manual and all brass components are replaced.
"Nozzle Assemblies" must be replaced.
- E) Hold contaminated components until notified of disposition by CASA or Precision Airmotive.

SECTION III – WARRANTY INFORMATION:

- A) No warranty coverage.

Note: All Precision Airmotive units currently under warranty, whether installed on a factory Lycoming or Continental engine or purchased outright, must be replaced with a Precision unit or repaired at Celsius/Hawker Pacific, Bankstown Airport (Factory Approved Warranty Repair Station) or other Factory Approved Warranty Repair Station to continue coverage.