



14800 40th Avenue NE
MARYSVILLE, WASHINGTON 98271
FAA-PMA FACILITY #PQ111NM

Service Bulletin Fuel Systems

Bulletin No.: PRS-108

Date: 1-26-2012

SUBJECT: Improper Choice of Cleaning Fluids Can Damage Diaphragms, O-Rings, and Other Non-Metal Components.

A. EFFECTIVITY:

This Service Bulletin is applicable to all aviation fuel injection systems (RS and RSA series) manufactured by Precision Airmotive or its predecessor, Bendix.

B. REASON:

This Service Bulletin is to advise owners, operators, overhaulers, and repairers of RS and RSA fuel injection systems of the potential for **adverse consequences** resulting from the use of improper choice of cleaning fluids on diaphragms, o-rings, and other non-metal components.

C. DESCRIPTION:

1. Only flow or flush fully assembled fuel controls with these ACCEPTABLE fluids: avgas, Stoddard calibrating fluid, Naptha calibrating fluid, or 10W non-detergent oil. Do **NOT** use any other cleaning fluids such as carburetor cleaner, brake cleaner, or acetone, because they may damage diaphragms, o-rings, and possibly other non-metal components.
2. Do not spray any cleaning fluids into the throttle bore of assembled servos. The fluids will get into the air diaphragm area of the servo.
3. Precision Airmotive's overhaul and maintenance manuals define what cleaning fluids are used to clean the various components of the fuel control system during repair and overhaul. Diaphragms and o-rings should only be cleaned with Stoddard cleaning fluid or Naptha. Do **NOT** use any other cleaning fluids such as carburetor cleaner, brake cleaner, acetone because these fluid may damage these parts.

D. ACTIONS:

1. If the internals of an assembled fuel control is exposed to any fluid other than the ACCEPTABLE fluids, the fuel control must be sent to an authorized repair center for a tear down inspection and replacement of diaphragms and o-rings.
2. If diaphragms and o-rings have been in contact with fluids other than the ACCEPTABLE fluids they should be scrapped.

E. WARNING:

Damage to diaphragms, o-ring, and other components caused by not following this service bulletin could result in damage to, or destruction of, equipment and injury to and/or death of personnel.

F. WARRANTY:

There is no warranty consideration for using NON-acceptable fluids.