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 FAA-PMA FACILITY #PQ111NM

**MANDATORY**  
 Service Bulletin  
 Fuel Systems

Bulletin No.: PRS-98

Date: 11/18/91

**SUBJECT:** MANDATORY INSPECTION AND REPLACEMENT OF RUBBER CENTER BODY SEALS USED ON RSA INJECTORS

**NOTE:** THIS BULLETIN SUPERSEDES AND CANCELS BENDIX SERVICE BULLETIN RS-20 REV 2 DATED 8-17-71.

**I. PLANNING INFORMATION:**

**A. EFFECTIVITY:**

All RSA injectors manufactured prior to 1978 which have not been updated with a metal center body seal are affected. The following list contains injectors having issue numbers which indicate that they contain a rubber center body seal and must comply with this bulletin. Injectors with issue numbers higher than the listed numbers incorporate a metal bellows seal and are not affected by this bulletin.

<u>MODEL</u>	<u>PARTS LIST NUMBER</u>	<u>EFFECTIVE ISSUES</u>
RSA-5AB1 *(RS-55) *(RS-60)	2524199	1 THRU 6
	2524216	1 THRU 5
	2524254	1 THRU 4
	2524262	1 THRU 3
	2524378	1 THRU 4
	2524712	1
RSA-5AD1 *(RS-61)	2524054	1 THRU 4
	2524119	1 THRU 4
	2524145	1 THRU 5
	2524147	1 THRU 6
	2524171	1 THRU 4
	2524189	1 THRU 4
	2524213	1 THRU 4
	2524242	1 THRU 3
	2524243	1 THRU 4
	2524291	1 THRU 4
	2524297	1 THRU 3
	2524307	1 THRU 3
	2524328	1 THRU 3
	2524335	1 THRU 3
	2524341	1 THRU 3
2524348	1 THRU 4	
2524359	1 THRU 3	
2524450	1 AND 2	

**MANDATORY**

**A. EFFECTIVITY: (CONTINUED)**

<u>MODEL</u>	<u>PARTS LIST NUMBER</u>	<u>EFFECTIVE ISSUES</u>
RSA-5AD1 (CONTINUED)	2524459	1 AND 2
	2524475	1
	2524550	1
	2524575	1
	2524590	1
	2524592	1
	2524263	1
	2524634	1
	2524640	1
	2524673	1
	2524682	1
	2524688	1
	2524723	1
	RSA-7AA1 *(RS-59)	2524347
RSA-10AD1 *(RS-46)	2524030	1 THRU 4
	2524152	1 THRU 3
	2524163	1 THRU 7
	2524175	1 THRU 3
	2524255	1 THRU 3
	2524256	1 THRU 5
	2524311	1 THRU 3
	2524318	1 THRU 3
RSA-10DB1 *(RS-58)	2524267	1 THRU 3
	2524275	1 THRU 8
	2524423	1 THRU 4
	2524593	1
RSA-10DB2 *(RS-58)	2524501	1 AND 2
RSA-10ED1 *(RS-58)	2524273	1 THRU 5
	2524298	1 THRU 5
	2524366	1 THRU 3
	2524420	1 THRU 4
	2524422	1 AND 2
	2524477	1 THRU 4
	2524491	1 AND 2
	2524492	1
	2524500	1 AND 2
	2524556	1 AND 2
	2524582	1
	2524601	1
	2524693	1

\* - Denotes service bulletins previously released by Bendix which address replacement of rubber center body seals with metal bellows seals..

**B. REASON FOR BULLETIN:**

To provide instructions for checking older fuel injectors for internal fuel leakage, and to mandate replacement of rubber center body seals with metal bellows seals.

**C. DESCRIPTION:**

1. Inspect fuel injector as directed in section II, ACCOMPLISHMENT INSTRUCTIONS.
2. If leakage is found, injector must be updated immediately with the metal bellows seal.

**D. COMPLIANCE:**

- Operating Activities
- 1) Comply with this bulletin immediately and thereafter at every 25 hours of engine operation.
  - 2) If the mixture becomes gradually richer over a period of time, or idle cutoff characteristics are undesirable, inspection as described in section II should be performed immediately.
  - 3) Injector shall be updated with metal bellows seal on or before June 30, 1992

Overhaul Activities: All injectors noted in section I.A. must be updated with the metal bellows seal.

**E. APPROVAL:**

None.

**F. MANPOWER:**

Approximately 1.0 hour at each engine inspection. No additional time required for injector overhaul/update.

**G. MATERIAL AVAILABILITY:**

None required.

**H. TOOLING:**

Not affected.

**I. REFERENCES:**

Bendix Service Bulletins RS-20, RS-46, RS-55, RS-58, RS-59, RS-60, and RS-61.

**J. WEIGHT AND BALANCE:**

Not affected.

**K. PUBLICATIONS AFFECTED:**

None Affected.

**II. ACCOMPLISHMENT INSTRUCTIONS:**

If it is necessary to periodically reset the idle adjustment leaner or the idle cutoff characteristics are undesirable, there is a possibility that the seal between the fuel and air chamber is leaking. To confirm if the seal is leaking, proceed as follows:

1. Remove the air inlet duct from the injector.
2. Disconnect the outlet fuel line from the injector to the flow divider at the injector.
3. Cap the injector outlet fitting at the injector. Plug the fuel outlet line to prevent contamination from entering the system.
4. Place the throttle in the wide open position.
5. Place the mixture control lever in Full Rich.
6. Turn on boost pump for a period of three (3) minutes.
7. Observe the air inlet to the injector at the venturi and impact tubes for the presence of fuel.
8. If no fuel is present in the venturi at the end of three (3) minutes, shut off boost pump, return throttle and mixture control to the off position, remove cap from injector outlet fitting and line. Reconnect flow divider line per requirements of applicable engine/airframe maintenance manual. Install the inlet duct per the requirements of the applicable engine/airframe maintenance manual.
9. If fuel leakage appears in the venturi section, the injector must be removed and sent to a qualified repair facility immediately for installation of a metal center body seal.
10. Make an appropriate log book entry upon completion of each inspection.