

Service Information

Letter - Fuel Systems

Small Reciprocating Engines
All RS/RSA
SIL # 31 Rev. 1
Issued 5/25/89
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Rev. 5/26/89

Subject: Contamination in Bendix fuel injector system
RSA-7AA1, P/L 2524347

NOTE: This S.I.L. replaces Precision Airmotive Fuel Systems
S.I.L. Step 8 dated 5-25-89

Purpose: Inspection of RSA-7AA1, P/L 2524347 for idle and
mixture control valve O-ring contamination.
Reference: PRS-92

Accomplishment Instructions:

Assemble and disassemble fuel injectors in accordance with
instructions in the latest applicable overhaul manual, form
number 15-520.

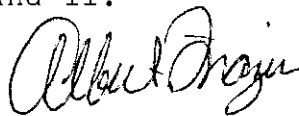
- Step 1: Remove the idle and mixture control valve assemblies.
- Step 2. Remove and inspect with 10x magnifying glass, the
packings p/n 951402 (Items 180, 185 and 240, IPL
Figure 2) and p/n 951403 (Items 190 and 245, IPL,
Figure 2) for any evidence of damage (shaving, cuts,
etc.). If there is no damage, continue with step 3
through 11. If there is damage, perform steps 12
through 20.
- Step 3. Visually inspect bores for irregularities.
- Step 4. Polish the bores of the throttle body for the idle
and mixture control valve assemblies with paper no
coarser than 800 grit.
- Step 5. Thoroughly clean areas with calibrating fluid, Type
II - MIL-C-7024B (such as Stoddard Solvent). Any
bare surfaces should be treated in accordance with
standard practices.
- Step 6. Lubricate new packings p/n 951402 and p/n 951403 and
bores of throttle body for idle and mixture control
valve assemblies with a light coating of "vaseline"
or equivalent.

***P*-PRECISION**

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SNOHOMISH COUNTY AIRPORT
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- Step 7. Install packings on idle and mixture control valve assemblies.
- Step 8. Carefully reinstall idle and mixture control valve assemblies. NOTE: Valve assembly should be seated by hand before installing screws.
- Step 9. Flow check unit per applicable flow specifications. NOTE: See Service Bulletin PRS-91 for latest information.
- Step 10. Stamp the letter "P" on right side of date plate.
- Step 11. Return the fuel injector servo to service.
- **The following steps are to be accomplished only if O ring damage is noted.****
- Step 12. Remove metering jet, item 215, IPL, Figure 3; p/n 390188-53.
- Step 13. Remove fuel inlet strainer.
- Step 14. Accomplish steps 3,4,5,6,7, and 8.
- Step 15. Supply a fuel source to outlet of fuel servo unit.
- Step 16. Flush unit through a paint strainer or fine mesh screen while continually operating mixture control and throttle levers for a minimum period of five minutes. If further evidence of contamination is observed, continue to flush unit until no further contamination is present.
- Step 17. Remove idle valve assembly and reinstall metering jet.
- Step 18. Inspect packings for damage, lubricate and reinstall idle valve assembly.
- Step 19. Install new packings, p/n 951790 (item 30, IPL, Figure 2) and p/n 951392 (item 40, IPL, Figure 2) on fuel strainer and reinstall in servo.
- Step 20. Accomplish Steps 9, 10, and 11.



Albert Frazier
Chief Inspector