



South Bend, Indiana 46620, U.S.A.

Service Bulletin

Fuel Systems

Bulletin No.: RS-50

Date: 2-15-78

Revised: _____

Subject: BENDIX FUEL INJECTOR SYSTEM INSPECTION AND MODIFICATION

1. PLANNING INFORMATION:

A. EFFECTIVITY:

All RSA-5 Model Fuel Injectors.
All RSA-10 Model Fuel Injectors.

B. REASON:

To inspect and measure the width of grooves for the preformed packings on the idle valve shaft and mixture control shaft, to insure adequate volume for the preformed packing.

C. DESCRIPTION:

During normal overhaul inspect and measure the width of grooves for the preformed packings on the idle valve shaft and the mixture control shaft of the subject fuel injectors.

(1) The width of the grooves must measure 0.094 to 0.104 inches wide.

(2) Modify the width of the grooves for the preformed packings to the required dimensions, to insure adequate volume for the preformed packing.

D. COMPLIANCE:

Operating Activities: Operator information only.
Overhaul Activities: Comply at overhaul.

E. APPROVAL:

Compliance with this bulletin does not alter FAA-TSO conformance.

F. MANPOWER:

An estimated 0.75 additional man-hours are required during normal overhaul.

1. PLANNING INFORMATION: (Continued)G. MATERIAL AVAILABILITY:

| <u>Part No.</u> | <u>Nomenclature</u> | <u>Availability</u> |
|-----------------|---------------------|--------------------------------|
| 953516-10 | Preformed Packing | Bendix Product Support Centers |

H. TOOLING:

None.

I. WEIGHT AND BALANCE:

Not affected.

J. REFERENCES:

None.

K. PUBLICATIONS AFFECTED:

| <u>Model No.</u> | <u>Form No.</u> |
|------------------|-----------------|
| RSA-5AB1 | 15-419 |
| RSA-5AD1 | 15-381 |
| RSA-10AD1 | 15-433 |
| RSA-10DB1 | 15-471 |
| RSA-10DB2 | 15-542 |
| RSA-10ED1 | 15-458 |

2. ACCOMPLISHMENT INSTRUCTIONS:

A. During the normal overhaul operations comply with the following instructions.

- (1) Inspect and measure the width of the preformed packing grooves in the idle valve shaft and the mixture control shaft.
- (2) Preformed packing grooves must measure 0.094 to 0.104 inches wide.
- (3) If the width of the preformed packing grooves does not conform to the required measurements, modify the idle valve shaft and/or mixture control shaft as follows:
 - (a) Attach the idle valve shaft to a lathe and with a suitable cutting tool proceed to widen the groove to the required dimension of 0.094 to 0.104 inches.

CAUTION: DO NOT MAR OR GOUGE THE IDLE VALVE SHAFT AND/OR MIXTURE CONTROL SHAFT IN THE LATHE OR DURING THE MODIFICATION OPERATIONS.

1. PLANNING INFORMATION: (Continued)

G. MATERIAL AVAILABILITY:

| <u>Part No.</u> | <u>Nomenclature</u> | <u>Availability</u> |
|-----------------|---------------------|--------------------------------|
| 953516-10 | Preformed Packing | Bendix Product Support Centers |

H. TOOLING:

None.

I. WEIGHT AND BALANCE:

Not affected.

J. REFERENCES:

None.

K. PUBLICATIONS AFFECTED:

| <u>Model No.</u> | <u>Form No.</u> |
|------------------|-----------------|
| RSA-5AB1 | 15-419 |
| RSA-5AD1 | 15-381 |
| RSA-10AD1 | 15-433 |
| RSA-10DB1 | 15-471 |
| RSA-10DB2 | 15-542 |
| RSA-10ED1 | 15-458 |

2. ACCOMPLISHMENT INSTRUCTIONS:

A. During the normal overhaul operations comply with the following instructions.

- (1) Inspect and measure the width of the preformed packing grooves in the idle valve shaft and the mixture control shaft.
- (2) Preformed packing grooves must measure 0.094 to 0.104 inches wide.
- (3) If the width of the preformed packing grooves does not conform to the required measurements, modify the idle valve shaft and/or mixture control shaft as follows:
 - (a) Attach the idle valve shaft to a lathe and with a suitable cutting tool proceed to widen the groove to the required dimension of 0.094 to 0.104 inches.

CAUTION: DO NOT MAR OR GOUGE THE IDLE VALVE SHAFT AND/OR MIXTURE CONTROL SHAFT IN THE LATHE OR DURING THE MODIFICATION OPERATIONS.

2. ACCOMPLISHMENT INSTRUCTIONS: (Continued)


- (b) Finish the modified side of the groove to an absolute smooth surface finish, cutting grooves, edges or steps are not permissible.
- (c) Remove all burrs from the modified idle valve shaft.
- (d) Repeat the procedure of paragraphs a, b and c for the modification of the mixture control shaft.
- (4) Clean the modified idle valve shaft and/or mixture control shaft in accordance with instructions in the ASSEMBLY section of the Overhaul Manual.
- (5) Reassemble the fuel injector in accordance with the instructions in the ASSEMBLY section of the applicable Overhaul Manual.

B. IDENTIFICATION:

N/A

3. MATERIAL INFORMATION:

| <u>New P/N</u> | <u>Qty</u> | <u>Nomenclature</u> | <u>Old P/N</u> | <u>Disposition</u> |
|----------------|------------|---------------------|----------------|--------------------|
| 953516-10 | 1 | Preformed Packing | 953516-10 | Scrap |



K.R. Dettweiler
Technical Support Manager