

Service Bulletin

Fuel Systems

Bulletin No.: RS-49

Date: 1-11-78

Revised: _____

Subject: MODIFICATION OF BENDIX FUEL INJECTION MODEL RSA-7AA1

1. PLANNING INFORMATION:

A. EFFECTIVITY:

RSA-7AA1 P/L No. 2524347-3 Basic No. 2524525D.

B. REASON:

To provide detailed instructions for the modification of subject unit to include a larger diameter roll pin in the mixture control valve stem assembly as a product improvement.

C. DESCRIPTION:

Refer to the applicable overhaul manual for removal and installation instructions.

D. COMPLIANCE:

Operating Activities: Information only.
Overhaul Activities: Comply at overhaul.

E. APPROVAL:

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

F. MANPOWER:

One-half hour during normal overhaul.

G. MATERIAL AVAILABILITY:

<u>Part Number</u>	<u>Nomenclature</u>	<u>Availability</u>
2538726	Stem Assembly, Mixture Control	Bendix Products
909292	Pin, Spring	Support Centers

H. TOOLING:

None.

1. PLANNING INFORMATION: (Continued)

I. WEIGHT AND BALANCES:

Not affected.

J. REFERENCES:

None.

K. PUBLICATIONS AFFECTED:

Form No. 15-520.

2. ACCOMPLISHMENT INSTRUCTIONS:

A. During the course of normal overhaul of the unit perform the following modification on the stem assembly of the mixture control.

(1) Drill hole per Figure 1 to the indicated diameter.

(2) Reassemble mixture control assembly using new spring pin P/N 909292.

(3) Continue reassembly per latest overhaul manual 15-520A.

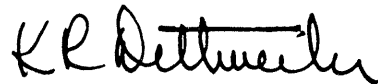
(4) Test the unit latest Test Specification No. 9315-01 attached to this bulletin.

B. IDENTIFICATION:

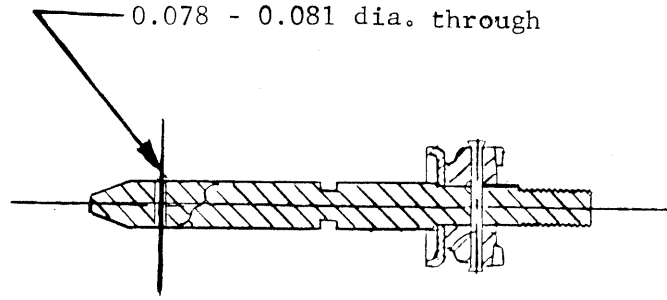
Basic number 2524525D changes to 2524525E.

3. MATERIAL INFORMATION:

<u>New P/N</u>	<u>Quantity</u>	<u>Nomenclature</u>	<u>Old P/N</u>	<u>Disposition</u>
909292	1	Pin, Spring	909283-K35	Scrap
2538726	1	Lever & Shaft Assembly, Mixture Control	2537235	Rework per Fig. 1



K. R. Dettweiler
Technical Support Manager



P/N 2538726

Stem Assembly - Mixture control

Figure 1.

TEST SPECIFICATION

THE BENDIX CORPORATION, ENERGY CONTROLS DIVISION, SOUTH BEND, INDIANA, U.S.A.

OPERATOR	MODEL RSA	SERIAL NO.	(14-19)
PARTS LIST	2524525	(1-13) DATE	(32-37)
		PAGE CODE	9315-01
		1 of 1	(20-25)

ENGINE MFGR: Lycoming

FUEL INLET PRESSURE: 25 P.S.I. + 1

NOZZLE PRESSURE: 0

LIMITS BASED ON 0.734 SPECIFIC GRAVITY AT 75°F ±5°F

(NAPHTHA)

INJECTOR MODEL: RSA-7A41

DATE ISSUED: 5/03/77

TEST POINT NO.	1	2	3	4	5	6
METERING SUCTION	0	0	15.3	18.5	22.8	22.8
INCHES OF WATER						
CORRESPONDING						
AIR FLOW LBS/HR.	0	0	900	1000	1100	1100
MIXTURE CONTROL						
LEVER POSITION	R	I.C.O.	R		R	R
THROTTLE POSITION	W.O.	W.O.	W.O.	W.O.	W.O.	W.O.
BURETTE VOLUME	200		350	500	500	500
TIME MIN.	50.8		29.2	33.2	29.7	29.4
LIMITS MAX	64.8		30.5	35.6	31.3	32.2
IN						
SECONDS OBS	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
FLOWMETER MIN.	18.0	0	67.0	82.0	93.0	91.6
LIMITS MAX.	23.0	5CC	70.0	88.0	98.0	99.5
IN						
LBS./HR. OBS.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
METERING			AV			
HEAD			69.0			
INCHES OF						
FUEL OBS.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

PROCEDURE FOR SPLIT HEAD CHECK

1. Close Thro. to .006" Shim in Bore.
2. Adj. Idle Fuel Flow to 9.0 - 11.0 #/Hr. Wheel Centered, Obs. Met. Head.
3. Remove .006" Shim.
4. Close Thro. to 7.0 - 8.0 #/Hr. F.F., Met. Head Increase from (2) 5.0" Fuel Max.