

Service Bulletin

Fuel Systems

Bulletin No.: RS-56 R1

Date: 11/1/78

Revised: 1-15-79

Subject: THE MODIFICATION OF FUEL INJECTOR SYSTEM MODEL RSA-5AB1

NOTE: This modification should be performed in conjunction with the modification instructions described in Service Bulletin RS-55 dated: 1 November, 1978.

1. PLANNING INFORMATION:

A. Effectivity:

Model No.

RSA-5AB1

Parts List No.

2524712-1
2524712-5-3

B. Reason:

To meet Engine Manufacturer's revised fuel flow requirements.
Revision 1: To update the test specification attached to this bulletin.

C. Description:

Refer to the applicable overhaul manual Form 15-419B for removal and installation instructions of the idle valve, idle valve lever assembly and metering jets.

D. Compliance:

Operating Activities: Information only.

Overhaul Activities: Comply at overhaul.

E. Approval:

F. Manpower: Approximately an additional 0.25 man-hours are required during normal overhaul.

1. PLANNING INFORMATION: (Cont.)

G. Material Availability: October 1978

<u>Part Number</u>	<u>Nomenclature</u>	<u>Availability</u>
2540326	Valve, Idle	Bendix Products Support Centers
2540328	Lever Assembly, Idle Valve	Bendix Products Support Centers
360909-50	Jet, Metering	Bendix Products Support Centers

H. Tooling:

Not affected.

I. Weight and Balances:

No Change.

J. References:

Parts List Change Request No. 6606A and Bulletin No. 55

K. Publications Affected:

Overhaul Manual for Model RSA-5AB1 Form No. 15-419B

2. ACCOMPLISHMENT INSTRUCTIONS:

A. During the course of normal overhaul of affected units, the following must be performed.

1. Replace idle valve lever assembly P/N 2537859 with idle valve lever assembly P/N 2540328.
2. Replace idle valve P/N 2537514 with idle valve P/N 2540326.
3. Remove metering jet P/N 360909-50 from the automatic mixture control (AMC) adapter. Clean and inspect the metering jet and retain for reassembly if inspection indicates the part is serviceable.
4. Remove metering jet P/N 384606-40 from the center body casting. Retain for use in other fuel injections units, if inspection of the metering jet indicates the part is serviceable.
5. Install metering jet P/N 360909-50, from previous paragraph (3), in the center body casting in place of metering jet P/N 384606-40.
6. Test the modified fuel injectors following flow test instructions in the overhaul manual Form No. 419B and test specification No. 9669-01 attached to this bulletin.

2. ACCOMPLISHMENT INSTRUCTIONS: (Cont.)

B. Identification of Modified Units.

1. RSA-5AB1 Parts List No. 2524712-1 change to 2524712-3-2
 Parts List No. 2524712-5-3 change to 2524712-5
 Basic No. 2524716-A change to 2524716-C-B
 Basic No. 2524716-B change to 2524716-E

3. MATERIAL INFORMATION:

New Part No.	Quantity	Nomenclature	Old Part No.	Disposition
2540326	1	Valve, Idle	2537514	Scrap
2540328	1	Lever Assembly, Idle Valve	2537859	Scrap
360909-50	1	Jet, Metering	384606-40	If serviceable retain for use in other units



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ECD-2565

TEST SPECIFICATION

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

OPERATOR	MODEL RSA-5AB1	SERIAL NO.	(20-25)
PARTS LIST	2524716	(1-13) DATE	(14-19)
		(32-37) PAGE CODE	9669-01
			1 of 1
			RELEASE 10-17-78

ENGINE MFR: Lycoming

FUEL INLET PRESSURE: 20 P.S.I. ± 1

NOZZLE PRESSURE: 0

INJECTOR MODEL: RSA-5AB1

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

DATE ISSUED: 10/13/78

(NAPHTHA)

TEST POINT NO.	1	2	3	4	5
METERING SUCTION	0	0	5.0	12.0	12.0
INCHES OF WATER					
CORRESPONDING					
AIR FLOW LBS/HR.	0	0	700	1100	1100
MIXTURE CONTROL					
LEVER POSITION	R	I.C.O.	R	R	R
THROTTLE POSITION			W.O.	W.O.	W.O.
BURETTE VOLUME	200		500	500	500
TIME MIN.	27.6		44.2	29.1	28.7
LIMITS MAX	30.7		47.8	29.8	30.9
IN					
SECONDS OBS					
FLOWMETER MIN.	38.0		67.0	105.0	103.5 FOR R.A.R
LIMITS MAX.	42.2	5CC	71.0	110.0	112.0 ACCEPTANCE
IN					
LBS./HR. OBS.					
METERING			AV.	AV.	AV.
HEAD			10.0	30.0	30.0
INCHES OF					
FUEL					

PROCEDURE FOR SPLIT HEAD CHECK

1. Close Thro. to .006" Shim in Bore.
2. Adj. Idle Fuel to 6.0 - 7.0 #/Hr. Wheel Centered, Obs. Met. Head.
3. Remove .006" Shim.
4. Close Thro. to 4.0 - 5.0 #/Hr. F.F., Met. Head Increase from (2) 5.0" Fuel Max.