

Service Bulletin

Fuel Systems

Bulletin No.: RS-45 Rev. 1

Date: 5-15-78

Revised: 10-11-79

Subject: BENDIX FUEL INJECTOR SYSTEM - RSA-10ED1 BASIC NO. 2524518A,
MODIFICATION TO BASIC NO. 2524648A.

1. PLANNING INFORMATION:

A. EFFECTIVITY:

Parts List Numbers:

2524273-4
2524298-4
2524420-3
2524491-1
2524556-1

B. REASON:

To provide improved engine operation in the off idle range.
To provide latest updated Calibration Test Specification.

C. DESCRIPTION:

Change idle valve from P/N 2526084 to P/N 2538396.

D. COMPLIANCE:

Comply at next overhaul.

E. APPROVAL:

F. MANPOWER:

No additional man-hours required during normal overhaul.

G. MATERIAL AVAILABILITY:

<u>Part No.</u>	<u>Nomenclature</u>	<u>Availability</u>
2538396	Idle Valve Assembly	All Bendix Product
367756	Identification Plate	Support Centers
186739	Screws	

1. PLANNING INFORMATION: (Continued)

H. TOOLING:

NONE.

I. WEIGHT AND BALANCE:

Not affected.

J. REFERENCES:

SIL No. 13 issued 7-19-74.

K. PUBLICATIONS AFFECTED:

RSA-10ED1 Manual - Form No. 15-458D.

2. ACCOMPLISHMENT INSTRUCTIONS:

A. At overhaul during reassembly of the injector (Reference Overhaul Manual with Illustrated Parts List Form 15-458D) carry out the following instructions.

- (1) Replace idle valve assembly P/N 2526084 Figure 5-2 index 52 with idle valve assembly P/N 2538396, Figure 5-2 index 52.
- (2) On completion of assembly of the injector, test and calibrate per attached test specifications, Figure 1.

B. IDENTIFICATION:

Reidentify modified injectors by copying Bendix Model and Serial Numbers from old identification plate P/N 367756 and stamp onto new identification plate, using 1/16 inch metal stamps.

(1) Reidentify as follows:

2524273-4	as	2524273-5
2524298-4	as	2524298-5
2524420-3	as	2524420-4
2524491-1	as	2524491-2
2524556-1	as	2524556-2

(2) Basic Part Number changes from 2524518A to 2524648A.

3. MATERIAL INFORMATION:

<u>New P/N</u>	<u>Quantity</u>	<u>Nomenclature</u>	<u>Old P/N</u>	<u>Disposition</u>
2538396	1	Idle Valve Assembly	2526084	Scrap
367756	1	Identification Plate	367756	Scrap
186739	2	Screws	186739	Scrap

ECD-2565

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

OPERATOR	MODEL RSA-10ED1	SERIAL NO.	(14-19)	9955-01	(20-25)
PARTS LIST	2524648	DATE	(1-13)	(32-37)	PAGE CODE 1 of 1

ENGINE MFG: Lycoming

FUEL INLET PRESSURE: 26 P.S.I. ± 1
 NOZZLE PRESSURE: 0
 LIMITS BASED ON 0.734 SPECIFIC GRAVITY AT 75°F ± 5°F
 (NAPIHTHA)
 INJECTOR MODEL: RSA-10ED1
 DATE ISSUED: 10/11/79

TEST POINT NO.	1	2	3	4	5
HEADING SUCTION	0	0	3.6	15.8	15.8
INCHES OF WATER					
CORRESPONDING					
AIR FLOW LBS/HR.	0	0	800	1700	1700
MIXTURE CONTROL					
LEVER POSITION	R	I.C.O.	R	R	R
THROTTLE POSITION	H.O.	H.O.	H.O.	H.O.	H.O.
BUCKET VOLUME	200		500	850	850
TIME MIN.	27.3		37.8	30.4	29.7
L.DIFTS	33.8		41.0	31.6	32.2
IN					
SECONDS OBS					
PLANKETER MIN.	34.5	0	71.0	156.8	154.0 FOR R.A.R.
LIMITS MAX.	42.7	5CC	77.0	163.2	167.0 ACCEPTANCE
IN					
LBS./HR. OBS.			AV.	AV.	AV.
METERING			8.4	37.8	37.8
HEAD					
INCHES OF					
FUEL					

PROCEDURE FOR SPLIT HEAD CHECK

1. Close Thro. to .006" shim in bore.
2. Adj. Idle fuel to 9. - 10. #/hr. wheel centered, OBS Met. Head.
3. Remove .006" shim.
4. Close Thro. to 7. - 8. #/hr. F.F., Met. Head Incr. from (2) 5" Fuel Max.

Figure 1. Test Specifications RSA-10ED1.

K R Dettweiler Jr

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Manager of Service