

ATTACHMENT No. 8



AlliedSignal Inc.
Controls & Accessories
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January 5, 1995

To: Holders of Service Bulletin 130406-21-A4011

This page transmits Revision 3 to cabin air pressure outflow/safety valve Service Bulletin 130406-21-A4011, dated Sep 28/94.

The revision adds valve serial numbers to the effectivity list.

Please replace the entire Service Bulletin, Rev 2 dated Sep 28/94 with the attached revised pages, dated Jan 5/95.

Revision 3 Highlights.

<u>Page</u>	<u>Description of Change</u>	<u>Effectivity</u>
1 - 3	Changes Serial No. list to add valve serial numbers found since last revision.	All

ALERT SERVICE BULLETIN

AIR CONDITIONING -- Outflow/Safety Valve -- Identification of valves that require replacement

1. Planning Information

A. Effectivity

This service bulletin is applicable to the outflow/safety valves having serial numbers listed below, except as follows:

- Service bulletin is not applicable to valves with identification plate MOD RECORD block stamped "PCA" (Poppet Change Accomplished).
- Service bulletin is not applicable to valves with an inked ATD Quality Assurance "Functional Test (FT)" stamp dated June 1992, or later.

<u>Part No.</u>	<u>Serial No.</u>	<u>Application</u>
130406-1	11-1506	Lear 24/25/28/29/31
	12-2149	35/36/55
	12-2230	
	18-423	
	20-2054	
	20-4012 thru 20-4053	
	20-4055 thru 20-4111	
	21-1514	
	21-4312 thru 21-4345	
	21-4347	
	21-4351	
	21-4352	
	21-4354 thru 21-4362	
	21-4364 thru 21-4366	
	21-4368	
	21-4369	
	21-4372	
	21-4376	
	21-4382	
	21-4384	
	21-4391 thru 21-4398	
	21-4400	
	21-4406	
	21-4411	
	24-2610	
	24-2680	
	24-2681	
	25-3165	
	26-155	
	27-3402	

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1A. Effectivity (Cont)

<u>Part No.</u>	<u>Serial No.</u>	<u>Application</u>
130406-1	27-3414	Lear 24/25/28/29/31
	31-1636	35/36/55
	40-4112 thru 40-4211	
	41-1671	
	41-1685	
	44-2747	
	46-3263	
	47-327	
	51-1711	
	54-2785	
	54-2794	
	60-1250	
	74-2839	
	74-2856	
	74-2864	
	74-2865	
	77-3564	
	84-2928	
	84-2891	
	86-3314	
	86-3317	
	88-774	
	88-760	
	88-767	
	90-1358	
	90-1359	
	100-4212 thru 100-4311	
	102-2527	
	106-3354	
	108-791	
	108-3683	
	108-3691	
	108-3697	
	108-3698	
	108-3699	
	108-3701 thru 108-3711	
	108-3730 thru 108-3811	
	111-1960	
	111-4412	
	111-4415	
	111-4417	
	111-4418	
	111-4423	
	111-4425	
	114-3004	
	114-3009	
	114-3040	

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1A. Effectivity (Cont)

<u>Part No.</u>	<u>Serial No.</u>	<u>Application</u>
130406-1	118-3812 thru 118-3816 118-3818 thru 118-3975 121-2001 126-3374 126-3378 126-3380 126-3391	Lear 24/25/28/29/31 35/36/55

All serial numbers repaired/overhauled by Air Marine Sales, Titusville, FL from January 1, 1989, through August 31, 1991.

B. Reason

- (1) Condition: The valves identified in this service bulletin may experience fracture or cracking of the poppet.
- (2) Background: Cracks have been found in two valve poppets in the field that were from a second lot of poppets (immediately preceding the lot of the original recall). This second lot had cracks observed in less than 1% of its population, as opposed to the originally recalled lot, which had cracks observed in about 27% of its population. Because of the potential criticality of poppet cracks, as determined by Learjet for their aircraft operating at maximum altitudes above 41,000 feet, AlliedSignal is extending the recall to encompass poppets manufactured since 1 January 1989. There is adequate objective evidence that the poppet-molding process was in control prior to this date, and could not have produced parts that would be susceptible to cracking.

The cracked poppets can produce a worse case condition of an open valve with an effective flow area of 4.4 sq in., or the valve may close and remain closed.

- (3) Action: Replace affected valves with serviceable valves. Because of the criticality assigned by Learjet to a potential 4.4 sq in. opening, AlliedSignal strongly recommends that maximum aircraft operating altitude be immediately limited to 41,000 feet until the valves are determined not to be on the suspect list, or have been overhauled by AlliedSignal with approved poppet assemblies.

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C. Description

This service bulletin identifies valves requiring replacement.

D. Compliance

Reference Learjet Service Bulletin.

E. Approval

Reviewed and approved by Learjet, Inc.

F. Manpower

Reference Learjet Service Bulletin.

G. Materials - Price and Availability

Information regarding the availability of parts may be obtained from authorized Learjet facilities. Warranty replacement of the suspect poppets is valid for 24 months after publication of the applicable Learjet Service Bulletins. Removal and replace hours will be reimbursed by AlliedSignal.

H. Tooling - Price and Availability

Not applicable.

I. Weight and Balance

Not affected.

J. Electrical Load Data

Not affected.

K. References

The sources of information used in the preparation of this service bulletin include ASCA engineering documentation.

L. Other Publications Affected

None.

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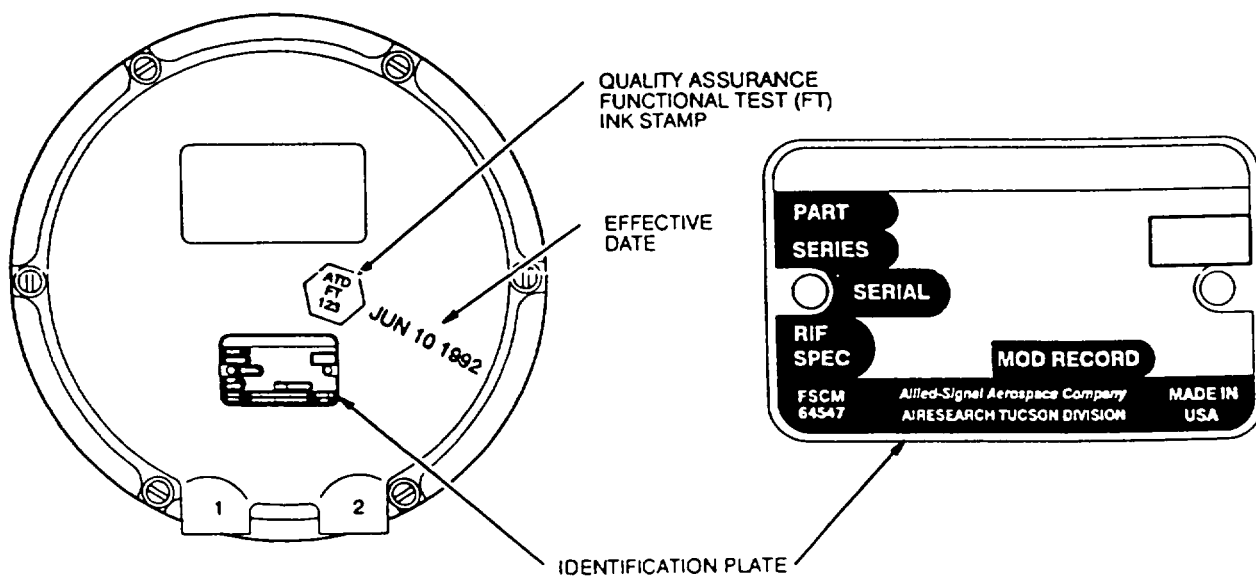
2. Accomplishment Instructions

- A. Visually check the valve serial number appearing on the identification plate against the effectivity list. (See figure 1.) If the serial number of the valve appears on the effectivity list, replace valve in accordance with aircraft manufacturers instructions, unless one of the following conditions is satisfied.
- B. If the serial number of the valve appears on the effectivity list, but the identification plate MOD RECORD block contains "PCA," no further action is required and the valve is considered serviceable.
- C. If the serial number of the valve appears on the effectivity list, but the valve cover has an inked ATD Quality Assurance "Functional Test (FT)" stamp dated June 1992, or later, no further action is required and the valve is considered serviceable. (See figure 1.)
- D. Reidentification

No field reidentification of the valve is required.

3. Material Information

Not Applicable.



Outflow/Safety Valve Identification Plate
Figure 1

H-17-479A

ALERT SERVICE BULLETIN

C. Description

This service bulletin identifies valves requiring replacement.

D. Compliance

Reference Learjet Service Bulletin.

E. Approval

Reviewed and approved by Learjet, Inc.

F. Manpower

Reference Learjet Service Bulletin.

G. Materials - Price and Availability

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J. Electrical Load Data

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K. References

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L. Other Publications Affected

None.

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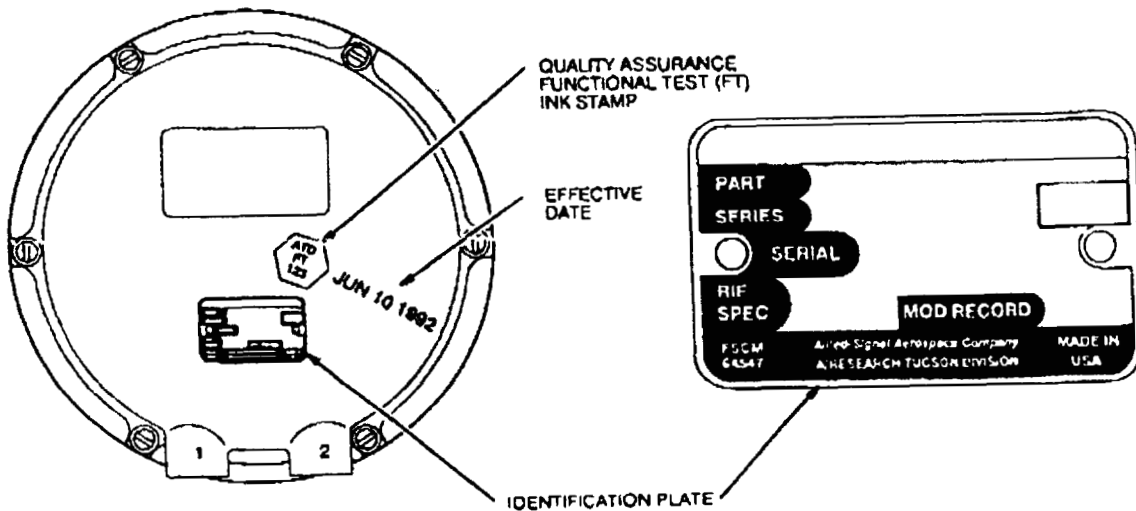
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3. Material Information

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Outflow/Safety Valve Identification Plate
Figure 1

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