

SERVICE BULLETIN

TO: HOLDERS OF SERVICE BULLETIN NO. 60-703-28-34

REVISION NO. 1, DATED 2000/11/20

HIGHLIGHTS

This service bulletin has been revised to add pricing data to the options available in the modification of the P/N 60-703xx(x) and 60-723xx series of pump housing subassemblies. Please replace the existing service bulletin in its entirety.

| Page No. | Description of Change | Effectivity |
|----------|---|-------------|
| 5 | Added price to Paragraph 4 | |
| 6 | Added warranty claim information requirements | |



HYDRO-AIRE
A SUBSIDIARY OF CRANE CO.

SERVICE BULLETIN

BOEING 747

Bulletin No. 60-703-28-34
Revision 1, 2000/11/20
H/A 8-160 & 8-272
ATA 28-31

FUEL – MODIFICATION OF FUEL OVERRIDE JETTISON PUMP HOUSING SUBASSEMBLIES PART NO. 60-703200, 60-70304, 60-70305, 60-703135 (BOEING PART NO. [BPN] 60B92603-21, -2, -5, -20), AND PART NO. 60-703200-1, 60-70304-1, 60-70305-1, 60-703135-1 (BPN 60B92603-25, -102, -105, -120), USED ON 747 / 747-400 AIRCRAFT.

1. PLANNING INFORMATION

A. EFFECTIVITY

All Hydro-Aire Fuel Override/Jettison Pump Housing Subassemblies with part numbers 60-703200 (BPN 60B92603-21), 60-70304 (BPN 60B92603-2), 60-70305 (BPN 60B92603-5), 60-703135 (BPN 60B92603-20), 60-703200-1 (BPN 60B92603-25), 60-70304-1 (BPN 60B92603-102), 60-70305-1 (BPN 60B92603-105), 60-703135-1 (BPN 60B92603-120).

B. CONCURRENT REQUIREMENTS

None (see paragraph 1.E).

C. REASON

Product Improvement: The discharge check valve design has been changed to increase its structural integrity.

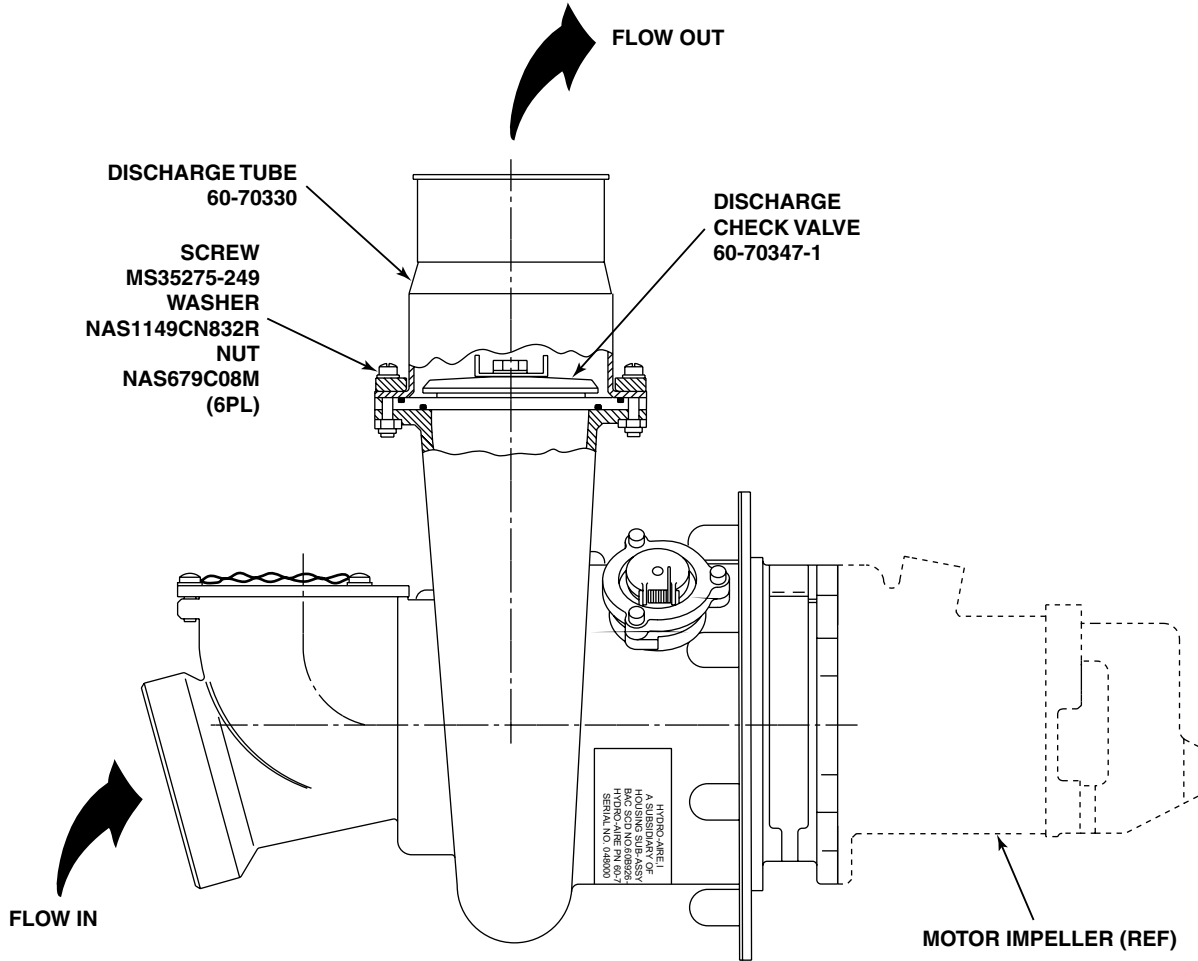
D. DESCRIPTION

This service bulletin gives instructions for the modification of Hydro-Aire Fuel Override/Jettison Pump Housing Subassemblies shown in paragraph 1.A. with a new discharge check valve assembly, P/N 60-70347-1, and washers, P/N NAS1149CN832R (see Figure 1).

E. COMPLIANCE

It is recommended that this Service Bulletin be accomplished in conjunction with Service Bulletin No. 60-703-28-33 at the earliest opportunity.

SERVICE BULLETIN



60-703200-SB6

**Typical Pump Housing
Figure 1**

F. APPROVAL

This Service Bulletin has been reviewed by Boeing and the Federal Aviation Administration (FAA); the repairs and modifications herein comply with the applicable Federal Aviation Regulations (FARs) part 25; and are on record at supplier as being FAA-approved for installation on applicable 747 or 747-400 aircraft.

SERVICE BULLETIN

G. MANPOWER REQUIREMENTS

This modification requires approximately 1 labor hour per pump housing.

H. WEIGHT AND BALANCE

Not affected.

I. ELECTRICAL LOAD DATA

Not affected.

J. REFERENCES

- (1) ATA 28-31-01 Overhaul Manual for Fuel Jettison/Override Pump Part No. 60-703 Series, Rev. 4, dated Jul 15/92.
- (2) ATA 28-31-02 Component Maintenance Manual for Boeing 747 Fuel Override/Jettison Pump, Part No. 60-721 / 60-723 Series, Rev. 9, dated Dec 18/98.
- (3) Hydro-Aire Service Bulletin No. 60-703-28-33 dated 2000/06/22.

K. OTHER PUBLICATIONS AFFECTED

None

2. MATERIAL INFORMATION

A. MATERIAL - PRICE AND AVAILABILITY

See section 5 for additional information.

B. INDUSTRY SUPPORT INFORMATION

Not applicable.

C. MATERIAL NECESSARY FOR EACH MODIFICATION OF THE INSTALLED PUMP HOUSING ASSEMBLY

For on-aircraft modification, see the applicable Airplane Maintenance Manual.

D. MATERIAL NECESSARY FOR EACH SPARE HOUSING MODIFICATION

The table below shows the contents of kit no. 60-703200-1902 for this modification.

SERVICE BULLETIN

| Description | Qty | New Part No. | Old Part No. | Instructions |
|--------------------------------------|-----|---------------|--|--------------|
| Modification kit no. 60-703200-1902: | | | | |
| Discharge check valve assembly | 1 | 60-70347-1 | 60-70347 60-703127 60-72324 | Replace |
| Washer | 6 | NAS1149CN832R | AN960C8 | Replace |
| Screw | 6 | MS35275-249 | MS35275-249 | Replace |
| Nut | 6 | NAS679C08M | NAS679C08M | Replace |
| Packing | 1 | 60-703554 | HS232-3-041 60-703554 SR822A-60 N620-70 457-70 | Replace |
| Packing | 1 | MS29513-143 | MS29513-143 | Replace |

E. TOOLING – PRICE AND AVAILABILITY

None.

3. ACCOMPLISHMENT INSTRUCTIONS

A. ON-AIRPLANE MODIFICATION

NOTE: Tank entry required. Refer to the applicable Boeing Service Bulletin and the Aircraft Maintenance Manual for modification procedure.

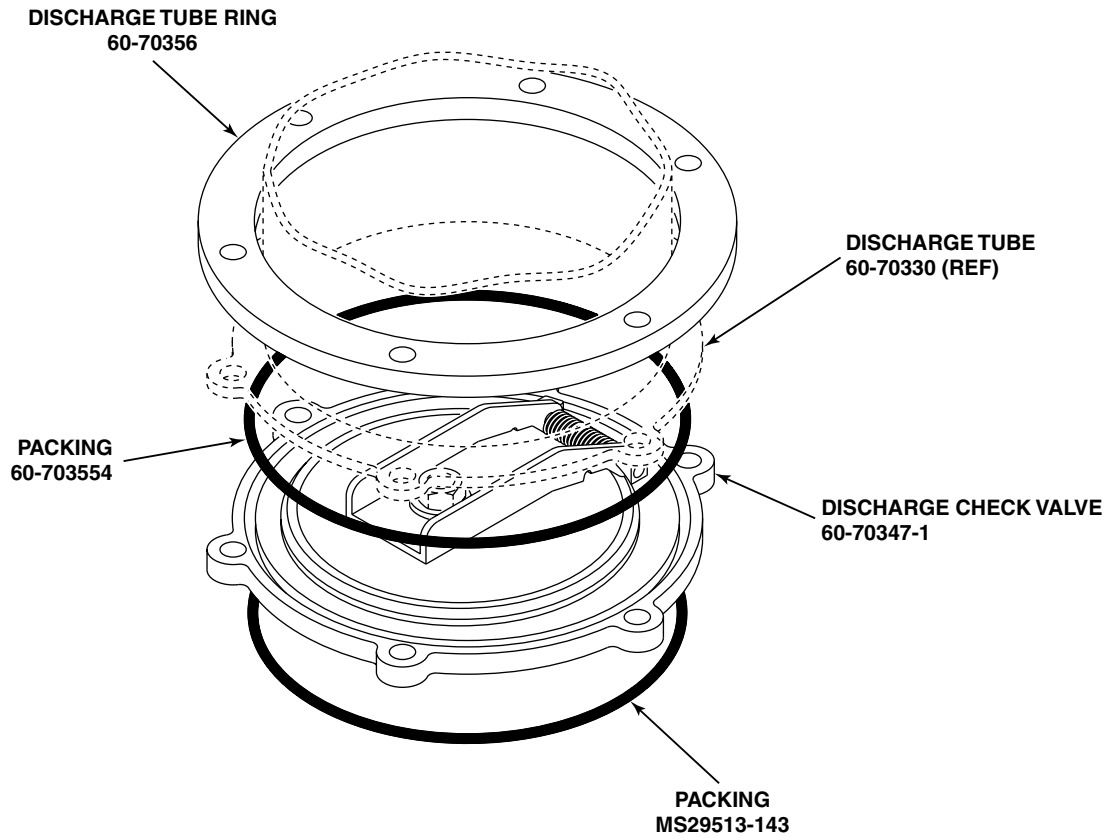
B. SHOP RETROFIT

- (1) Refer to the DISASSEMBLY section in the applicable reference shown in paragraph 1.J. and remove the P/N 60-70330 discharge tube, P/N 60-70356 discharge ring, and P/N 60-70347 discharge check valve assembly from the P/N 60-703200, 60-70304, 60-70305, 60-703135, 60-703200-1, 60-70304-1, 60-70305-1, or 60-703135-1 housing subassembly.
- (2) Put new P/N MS29513-143 packing on lower mating surface of new P/N 60-70347-1 discharge check valve assembly (see Figure 2).
- (3) Position the P/N 60-70356 discharge tube ring over the P/N 60-70330 discharge tube and place new P/N 60-70354 packing, P/N 60-70347-1 discharge check valve assembly, and P/N 29513-143 packing (Figure 2) on the P/N 60-703200, 60-70304, 60-70305, 60-703135, 60-703200-1, 60-70304-1, 60-70305-1, or 60-703135-1 housing subassembly where shown on Figure 1.

NOTE: Discharge check valve and discharge tube ring hole patterns will only align one way.

- (4) Use six P/N MS 35275-249 screws, NAS1149CN832R washers, and NAS679C08M nuts to attach P/N 60-70356 discharge ring, 60-70330 discharge tube, 60-70354 packing, 60-70347-1 discharge check valve, and MS29513-143 packing to a P/N 60-703200,

SERVICE BULLETIN



60-703200-SB2

**Discharge Check Valve Assembly
Figure 2**

60-70304, 60-70305, 60-703135, 60-703200-1, 60-70304-1, 60-70305-1, or 60-703135-1 housing subassembly

- (5) Torque P/N MS35275-249 screws to 17–19 in-lb (1.92–2.15 N²m).

C. HOUSING REIDENTIFICATION

Not applicable. Pump housing configuration control is at the option of the operator.

4. MODIFICATION

The operator may modify each housing subassembly, P/N 60-703200, 60-70304, 60-70305, or 60-703135 (TBC P/N 60B92603-21, -2, -5, -20) following the instructions outlined in this Service Bulletin. Kits are available at a charge of US\$757.00.

SERVICE BULLETIN

5. WARRANTY

The standard 36-month warranty applies to discharge check valve failures only.

Warranty claims must include the following information:

- Operator identification
- Airplane Identification Number (Tail Number)
- Housing part number

To order modification kits:

Contact: Hydro-Aire Airline Sales
phone: 818-526-2500
FAX: 818-842-6117
e-mail: spares@hydroaire.com