



Hamilton Sundstrand

A United Technologies Company

SERVICE BULLETIN

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Information Subject to Export Control Laws

Export Permitted Under NLR

Flight Controls - Asymmetry Brake Assembly - Add Drain Holes

1. Planning Information

A. Effectivity

Hamilton Sundstrand Asymmetry Brake Assembly, Model FAS02AB, part number 763053, serial numbers 0001 through 0603, used on Bombardier Global aircraft.

B. Reason

Field experience has shown that water can build up inside the asymmetry brake assembly when it is installed in certain positions on the aircraft. This is caused by the absence of multiple drain holes in the housing. The presence of the water can cause the asymmetry brake assembly to malfunction. Machining two additional drain holes in the housing will allow water to drain when installed in any position on the aircraft and reduce malfunctions. Incorporation of this bulletin will improve the reliability of the asymmetry brake assembly.

C. Description

This bulletin gives instructions necessary to disassemble the asymmetry brake assembly, modify the inseparable housing assembly, assemble the asymmetry brake assembly, identify the asymmetry brake assembly, and test the asymmetry brake assembly.

D. Compliance

Incorporation of this bulletin is recommended at first shop visit for unscheduled and scheduled removals.

E. Approval

This service bulletin contains no modification information that revises the approved configuration and therefore does not require Federal Aviation Administration (FAA) or other regulatory agency approval. This service bulletin has been reviewed by Bombardier Aerospace.

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F. Manpower

A maximum of 6.0 man-hours will be required to disassemble the asymmetry brake assembly, inseparable modify the housing assembly, assemble the asymmetry brake assembly, identify the asymmetry brake assembly, and test the asymmetry brake assembly.

G. Material - Cost and Availability

Hamilton Sundstrand will incorporate this modification into returned asymmetry brake assemblies at no charge until **April 3, 2010**. Contact Hamilton Sundstrand at the following address for scheduling information:

Hamilton Sundstrand Worldwide Repair
Miramar Repair Station
3601 Flamingo Road
Miramar, Florida 33027
Telephone: 954-538-8939
Fax: 954-433-2643
Email: vic.sewrathan@hs.utc.com

H. Tooling - Price and Availability

No tooling other than that required for aircraft and shop maintenance of the asymmetry brake assembly is required to do this modification.

I. Weight and Balance

None.

J. Electrical Load Data

Not affected.

K. Software Accomplishment Summary

Not applicable.

L. References

Hamilton Sundstrand Component Maintenance Manual (CMM) 27-52-53, Hamilton Sundstrand Standard Practices Manual (SPM) 20-00-00, and Hamilton Sundstrand Engineering Changes 48960E/E1/E2 and 49796E.

M. Other Publications Affected

Hamilton Sundstrand CMM 27-52-53 will be revised to incorporate this service bulletin.

N. Family Tree Charts of Modification Relationships

Not applicable.

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O. Interchangeability or Intermixability of Parts

Asymmetry brake assemblies, part number 763054, are intermixable and interchangeable with asymmetry brake assemblies, part number 763054A.

2. Accomplishment Instructions

A. General

- (1) The user should obtain the material safety data sheets [Occupational Safety and Health Act (OSHA) Form 20 or equivalent] from the manufacturers or suppliers of materials to be used. The user must become completely familiar with the manufacturer/supplier information and adhere to the procedures, recommendations, warnings, and cautions of the manufacturer/supplier for the safe use, handling, storage, and disposal of these materials. The user should also read the long version of the warnings contained in this service bulletin. The long version warnings are contained in Hamilton Sundstrand Warnings Registry 341-006 available free of charge to all organizations that are on distribution for this Service Bulletin. The Warnings Registry 341-006 is also available at www.hsvas.com.

B. Disassembly

- (1) Disassemble the asymmetry brake assembly (refer to CMM 27-52-53, DISASSEMBLY) as necessary to remove inseparable housing assembly (30, IPL Figure 1).

C. Modification

- (1) Modify the inseparable housing assembly (30) (refer to Figure 1 of this bulletin).

D. Assembly

- (1) Use the modified inseparable housing assembly (-30A) to assemble the asymmetry brake assembly (refer to CMM 27-52-53, ASSEMBLY).
- (2) Bag and attach two vent hole decal covers, part number 1701890, to the asymmetry brake assembly.

NOTE: The applicable Bombardier documentation gives instructions for the installation of the decals on the asymmetry brake assembly at the aircraft level.

E. Test

- (1) Do a test of the asymmetry brake assembly (refer to CMM 27-52-53, TESTING AND FAULT ISOLATION).

F. Identification

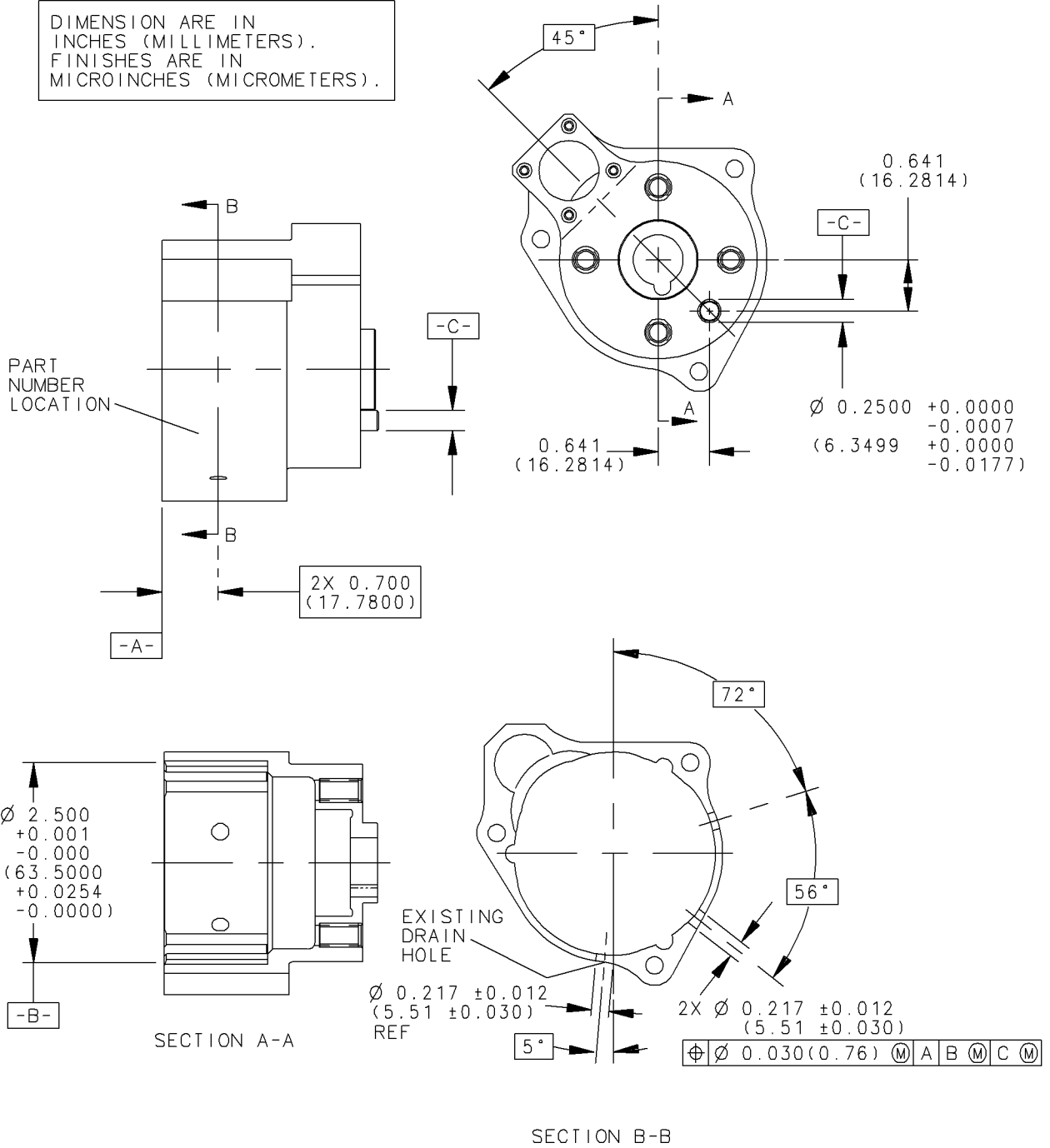
- (1) Identify the asymmetry brake assembly as follows (refer to SPM 20-00-00, ASSEMBLY).
 - (a) Mark the following information on a new identification plate (-280B, IPL Figure 1):
 - 1 Mark the part number 763053A in the MFR PN block of the identification plate.
 - 2 Mark the part number GT415-5500-3 in the BOMBARDIER PN block of the identification plate.

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- 3 Mark the symbol 27-1 in the MOD STATUS block of the identification plate.
- (b) Transfer the other pertinent data from the old identification plate (280A or -280B) to the new plate (-280B).
- (c) Remove the old identification plate (280A or -280B) (refer to CMM 27-52-53, DISASSEMBLY).
- (d) Install the new identification plate (-280B) (refer to CMM 27-52-53, ASSEMBLY).

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DIMENSION ARE IN INCHES (MILLIMETERS). FINISHES ARE IN MICROINCHES (MICROMETERS).



SB-FAS02AB271-95235

Inseparable Housing Assembly Modification
Figure 1 (Sheet 1 of 2)

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MATERIAL

Aluminum Alloy

PROCEDURE

1. Locate and drill two 0.217 ± 0.012 inch (5.51 ± 0.030 millimeter) drain holes (refer to the view).
2. Deburr the machined areas.
3. Clean the housing (refer to SPM 20-00-00, CLEANING).
4. Change the part number from 763965 to 1701855 (refer to the view and SPM 20-00-00, ASSEMBLY).
5. Apply chemical conversion coating to the machined areas and to the area where the part number was changed (refer to the view and SPM 20-00-00, REPAIR).
6. Touch up paint as needed (refer to CMM 27-52-53, ASSEMBLY).

Inseparable Housing Assembly Modification
Figure 1 (Sheet 2 of 2)

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3. Material Information

NOTE: Refer to Hamilton Sundstrand CMM 27-52-53 for expendable parts information.

New P/N	Qty Per Unit	Unit List Price	Key Word	Old P/N	Disposition/ Instructions
763053A (Note 1)	RF	Not Applicable	Asymmetry Brake Assembly	763053	Modify and identify
1701855	1	Not Applicable	Inseparable Housing Assembly	763965	Modify and identify
1701890	2	(Note 2)	Vent Hole Decal Cover	None	Bag and attach
772065	1	(Note 3)	Identification Plate	772065 763942	Remove old, mark and install new

Note 1: Refer to paragraph 2. F. of this bulletin for identification instructions.

Note 2: Hamilton Sundstrand will supply the noted parts at no charge (refer to paragraph 1.G. of this bulletin for details).

Note 3: Hamilton Sundstrand will install the noted part at no charge (refer to paragraph 1.G. of this bulletin for details).