

SERVICE BULLETIN

Kit 128-3065

TITLE: ICE AND RAIN PROTECTION - INSPECTION / REPLACEMENT OF HORIZONTAL STABILIZER DEICE SYSTEM SOLID STATE CONTACTOR

1. Planning Information

A. Effectivity

(1) Airplanes

Model 400, Serials RJ-1 through RJ-65;

Model 400A, Serials RK-1 through RK-353;

Model 400A (Hawker 400XP), Serials RK-354 through RK-379;

Model 400T(TX), Serials TX-1 through TX-13.

If you are no longer in possession of the airplane, please forward this information to the present owner.

(2) Spares

None.

B. Reason

This Service Bulletin is being issued following a field report that a horizontal stabilizer deice system, equipped with a supplier's Metal Oxide Semiconductor Field Effect Transistor (MOSFET) contactor, was rendered inoperative when the MOSFET contactor internally shorted and overheated. The flight crew received an H STAB FAIL annunciator indication and responded by landing the airplane safely. Heat damage was noted upon post-flight examination to the MOSFET contactor and its associated elevator heater horn. Hawker Beechcraft Corporation (HBC) has reviewed the information related to this occurrence and determined that, while horizontal stabilizer deice capability was lost, this condition does not affect safety of flight since cockpit annunciation occurred as designed and the FAA Approved Airplane Flight Manual contains procedures to manage such an indication.

The export of these commodities, technology or software are subject to the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited. For guidance on export control requirements, contact the Commerce Department's Bureau of Export Administration at <http://www.bis.doc.gov>.

Hawker Beechcraft Corporation (HBC) issues Service Information for the benefit of owners and fixed base operators in the form of two classes of Service Bulletins. The first class, Mandatory Service Bulletins (red border) includes changes, inspection and modifications that could affect safety or crashworthiness. HBC also issues Service Bulletins with no red border which are designated as either recommended or optional in the compliance section within the bulletin. In the case of recommended Service Bulletins, HBC feels the changes, modifications, improvements or inspections will benefit the owner/operator and although highly recommended, Recommended Service Bulletins are not considered mandatory at the time of issuance. In the case of Optional Service Bulletins, compliance with the changes, modifications, improvements or inspections is at the owner/operator's discretion.

Both classes are available on the web at <http://pubs.hawkerbeechcraft.com> and mailed to:

- (a) Owners of record on the FAA Aircraft Registration Branch List and the HBC Safety of Flight Information (SOFI) List.
- (b) Those having a publications subscription.

Information on Safety of Flight Information (SOFI) or subscription can be obtained through the Hawker Beechcraft Corporation Technical Manual Distribution Center (TMDC). As Mandatory Service Bulletins and Service Bulletins are issued, the Service Bulletin Master Index will be updated and available online at <http://pubs.hawkerbeechcraft.com>. Warranty will be allowed only when specifically defined in the Service Bulletin and in accordance with HBC Warranty Policy.

Unless otherwise designated, HBC Mandatory Service Bulletins, Service Bulletins and HBC Kits are approved for installation on HBC airplanes in original or HBC modified configurations only. HBC Mandatory Service Bulletins, Service Bulletins and Kits may not be compatible with airplanes modified by STC installations or modifications other than HBC approved kits.

SERVICE BULLETIN

C. Description

This Service Bulletin provides information to inspect the horizontal stabilizer deice system MOSFET contactor installation for the presence of P/N 128-384054-5 or P/N 128-384054-7 contactor(s) manufactured by a supplier. If P/N 128-384054-5 or P/N 128-384054-7 contactor(s) are installed, remove and replace the contactor(s) with P/N 128-380102-0001 contactor(s) in accordance with Kit 128-3065, *Tail De-Ice System Solid State Contactor*.

D. Compliance

Hawker Beechcraft Corporation recommends that this Service Bulletin be accomplished within the next 400 flight hours, but no later than 12 months from receipt of this Service Bulletin, whichever occurs first.

E. Approval

The engineering data contained in this Service Bulletin is FAA approved.

This modification is classified Level 2 Major per FAA Order 8110.52.

Prior to accomplishment, owners/operators of airplanes registered in countries other than the United States shall consult with their local Aviation Regulatory Authority.

F. Manpower

The following information is for planning purposes only:

Estimated man-hours for inspection: 1 hour

Estimated man-hours for installation of each MOSFET contactor: 1 hour

Suggested number of technicians: 1

The above is an estimate based on experienced, properly equipped technicians complying with this Service Bulletin.

G. Weight and Balance

Refer to Kit 128-3065.

H. Electrical Load Data

No change.

I. Software Accomplishment Summary

Not applicable.

J. References

Kit 128-3065.

K. Publications Affected

It is recommended that a note "See Service Bulletin 30-4073" be made in the appropriate chapter of the applicable Illustrated Parts Catalog, Wiring Diagram Manual, and/or Technical Orders.

SERVICE BULLETIN

L. Interchangeability of Parts

Not applicable.

M. Warranty Credit

None.

2. Material Information

A. Materials - Price and Availability

Contact information:

Hawker Beechcraft Parts & Distribution (HBP&D)
 10511 East Central Avenue
 Wichita, KS 67206
 USA
 Phone: 316-676-3100 or 1-888-727-4344
 Fax: 316-676-3222 or 316-676-3327
 E-mail: HBC_Parts@hawkerbeechcraft.com

B. Industry Support

Not applicable.

C. Airplanes

The following kit/parts/tools required for accomplishment of this Service Bulletin may be ordered through a Hawker Beechcraft Authorized Service Center, HBP&D, or obtained locally:

Kit/Part/Tool/Spec Number	Description	Quantity Per Airplane
128-3065-0001	Kit - Tail Deice System Solid State Contactor	1
MS3367-1-9 (or equivalent)	Tie Strap	As Required
MS3367-4-9 (or equivalent)	Tie Strap	As Required
MIL-T-43435, Type I, Finish B, Size 3 (or equivalent)	Tape, Lacing and Tying (Alternate for MS3367-4-9 or MS3367-1-9)	As Required
A-A-52080-B-3 (or equivalent)	Tape, Lacing and Tying (Alternate for MS3367-4-9 or MS3367-1-9)	As Required
[1] M22520/5-01 with M22520/5-103	Crimp Tool with Die	As Required

SERVICE BULLETIN

Kit/Part/Tool/Spec Number	Description	Quantity Per Airplane
[1] M22520/1-01 and TH278	Crimp Tool and Turret Head	As Required
[2] M81969/14-11	Insertion/Extraction Tool	As Required
131681AA20-9 or M22759/16-20-9 (or equivalent)	Wire, 20 Gage	12 inches
Obtain Locally	Heatshrink Tubing	As Required
[1] Obtain from Daniels Manufacturing Corporation, 523 Thorpe Road, Orlando, FL 32824-8133, Telephone: 407-855-6161, Fax: 407-855-6884, E-mail: sales@dmctools.com [2] Obtain from Amphenol Corporation, 358 Hall Avenue, Wallingford, CT 06492, Telephone: 203-265-8900, E-mail: http://www.amphenol-aerospace.com		

Hawker Beechcraft Corporation expressly reserves the right to supersede, cancel and/or declare obsolete, without prior notice, any kits, parts, or publications that may be referenced in this Service Bulletin.

CAUTION

All HBC-approved kits, unless otherwise designated, are approved for installation on HBC airplanes in original or HBC-approved modified configurations only. HBC-approved kits may not be compatible with airplanes modified by Supplemental Type Certificate (STC) installations or modifications other than HBC-approved kits.

D. Spares

Not applicable.

E. Reidentified Parts

None.

F. Tooling - Price and Availability

Refer to the table in Paragraph 2.C.

3. Accomplishment Instructions

This Service Bulletin shall be accomplished as follows:

NOTE

Should any difficulty be encountered in accomplishing this Service Bulletin, contact Hawker Beechcraft Corporation at 1-800-429-5372 or 316-676-3140.

SERVICE BULLETIN

WARNING

Observe all Warnings and Cautions contained in the airplane manuals referenced in this Service Bulletin.

Whenever any part of this system is dismantled, adjusted, repaired or renewed, detailed investigation must be made on completion to make sure that distortion, tools, rags or any other loose articles or foreign matter that could impede the free movement and safe operation of the system are not present, and that the systems and installations in the work area are clean.

A. Airplane

- (1) Remove all power from the airplane and disconnect the battery. Display warning notices prohibiting reconnection of airplane electrical power.
- (2) Install Kit 128-3065 as detailed in kit installation instructions.
- (3) Reconnect the airplane battery, remove warning notices, and restore power.
- (4) Ensure all work areas are clean and clear of tools and miscellaneous items of equipment.
- (5) Return airplane to service.

B. Spares

Not applicable.

C. Record of Compliance

Upon completion of this Service Bulletin, make an appropriate maintenance record entry.