

SERVICE BULLETIN

TITLE: FLIGHT CONTROLS - INSPECTION / REPLACEMENT OF PITCH TRIM ACTUATOR

1. Planning Information

A. Effectivity

(1) Airplanes

Model 400, Beechjet, Serial RJ-1 through RJ-65;

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

Model 400A, Beechjet (Hawker 400XP), Serials RK-354 through RK-604;

Model 400T (T-1A), Beechjet, Serials TT-1 through TT-180;

Model 400T (TX), Beechjet, 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

Refer to Table 1 (commercial) and Table 2 (military) of this Service Bulletin.

B. Reason

This Service Bulletin is being issued in response to a report of an unanticipated operational disruption due to mechanical feedback from the pitch trim actuator (PTA) to the pilot during flight. Upon inspection, the PTA exhibited accelerated thread wear on the ACME nut that mates with the jackscrew. The supplier has identified units to be pre-emptively overhauled.

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>

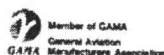
Hawker Beechcraft Corporation (HBC) issues Service Information for the benefit of owners and fixed base operators in the form of two classes of Service Bulletins. The first class, Mandatory Service Bulletins (red border) includes changes, inspection and modifications that could affect safety or crashworthiness. 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 instructions to conduct a review of the airplane's maintenance records to determine if the installed PTA is suspect for accelerated wear of the ACME nut component. Affected PTA serial and part numbers are listed in Table 1 (commercial airplanes) and Table 2 (military airplanes).

If determination cannot be made based on the maintenance records, a visual inspection of the installed PTA dataplate is necessary. If the installed PTA serial number is identified in Table 1 or Table 2, the PTA is replaced with an overhauled or serviceable assembly.

D. Compliance

(1) Civil Airplanes

An Airworthiness Directive will be requested on the matter covered by this Service Bulletin.

Hawker Beechcraft Corporation considers this to be a Mandatory Service Bulletin. It must be accomplished at the next scheduled inspection, within 200 flight hours, or six (6) months from issuance of this Service Bulletin, whichever occurs first.

(2) Military Airplanes

For compliance information on military airplanes affected by this Service Bulletin, contact the appropriate headquarters.

E. Approval

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

This modification is classified Minor 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:

NOTE

No warranty coverage will be allowed for the inspection portions of this Service Bulletin.

Estimated man-hours for removal and replacement of the PTA: 10.0 hours

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

No change.

It is the responsibility of the owner/operator to maintain compliance with the applicable Airworthiness Regulations.

SERVICE BULLETIN

H. Electrical Load Data

No change.

I. Software Accomplishment Summary

Not applicable.

J. References

Beechjet Model 400/400A (Hawker 400XP) Maintenance Manual (MM), P/N 128-590001-9, Revision C23 or subsequent, Chapter 27-40-00;

T-1A Aircraft Technical Manual Job Guide, P/N TO 1T-1A-2-27JG-40-1;

T-400 Aircraft Technical Manual Job Guide, P/N TO T400-2-27JG-40-1.

K. Publications Affected

None.

L. Interchangeability of Parts

Not applicable.

M. Warranty Credit

(1) Civil Airplanes

Warranty credit for labor and parts to the extent noted under MANPOWER and MATERIAL will be allowed on all affected airplanes with the suspect PTA serial numbers listed in Table 1 of this Service Bulletin. Claims for compliance with this Service Bulletin are to be filed as a W4-type claim against SB 27-4100.

Warranty coverage offered in this Service Bulletin will expire six (6) months from the last day of the month this Service Bulletin is issued. After this date, the owner/operator assumes the responsibility for compliance cost. Hawker Beechcraft Corporation (HBC) reserves the right to void continued warranty coverage in the area affected by this Service Bulletin until the date the Service Bulletin is accomplished by a Hawker Beechcraft Services (HBS) facility.

The owner/operator must contact HBS to schedule this Service Bulletin work to be accomplished. HBS will submit the appropriate paperwork directly to the HBC Warranty Department for warranty consideration. Hawker Beechcraft Corporation liability shall be limited to the remaining prorated life of the affected part, based on an 1,800-hour Time Between Overhaul (TBO). For example, if the affected part has 1,350 hours based on an 1,800-hour TBO, HBC will provide 25% of the cost of replacing the part.

The removed suspect PTA assemblies **SHALL** be red-tagged and returned to HBC at the following address in order to receive warranty consideration:

Hawker Beechcraft Corporation
Attn: Warranty Hold Area
370 N. Webb Rd., East Dock, Bldg 66
Wichita, KS 67206

After the Service Bulletin has been accomplished, a warranty claim must be submitted to HBC within 60 days of the Service Bulletin completion date.

SERVICE BULLETIN

(2) Military Airplanes

For information on PTAs installed on military airplanes affected by this Service Bulletin, refer to Table 2 and contact the appropriate headquarters.

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 parts required for accomplishment of this Service Bulletin may be ordered through a Hawker Beechcraft Authorized Service Center or HBP&D:

Part Number	Description	Quantity Per Airplane
45AS61023-143 OVH (commercial) OR 132-380000-13 (military)	Actuator - Pitch Trim	1

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

D. Spares

P/N 45AS61023-143 (commercial) or P/N 132-380000-13 (military).

E. Reidentified Parts

Pitch trim actuators reworked per this Service Bulletin will have suffix "SB-27-1" added to the existing serial number field on the dataplate.

F. Tooling - Price and Availability

Not applicable.

SERVICE BULLETIN

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 or contact appropriate headquarters for military airplanes.

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) Determine if the installed PTA is suspect for accelerated wear of the ACME nut component per the following applicable steps:
 - (a) Review the airplane's maintenance records for affected PTA part and serial numbers as listed in Table 1 (commercial) or Table 2 (military) of this Service Bulletin.
 - (i) If the PTA serial numbers match those listed in Table 1 or Table 2, the PTA should be replaced with an overhauled or serviceable assembly. Proceed to Step (2).
 - (ii) If PTA serial numbers are not listed in Table 1 or Table 2, no further action is needed. Proceed to Step (9).
 - (b) If a determination cannot be made through records research, perform a visual inspection of the installed PTA. Access the PTA and view the component dataplate for applicable part and serial numbers listed in Table 1 or Table 2. Refer to PITCH TRIM UPPER FORWARD ACCESS PANEL (BULLET) REMOVAL in MM, Chapter 27-40-00 (commercial) or appropriate Job Guide (military).
 - (i) If the PTA serial numbers match those listed in Table 1 or Table 2, the PTA should be replaced with an overhauled or serviceable assembly. Proceed to Step (2).
 - (ii) If PTA serial numbers are not listed in Table 1 or Table 2, no further action is needed. Proceed to Step (8).

SERVICE BULLETIN

Table 1
(Commercial)
Model 400/400A (Hawker 400XP)

HBC Part Number	Supplier Part Number	Serial Number
45AS61023-143	AA-45-51M11	10
45AS61023-143	AA-45-51M11	11
45AS61023-143	AA-45-51M11	22
45AS61023-143	AA-45-51M11	33
45AS61023-143	AA-45-51M11	000402
45AS61023-143	AA-45-51M11	000411
45AS61023-143	AA-45-51M11	910906
45AS61023-143	AA-45-51M11	920105
45AS61023-143	AA-45-51M11	920503
45AS61023-143	AA-45-51M11	921009
45AS61023-143	AA-45-51M11	940309
45AS61023-143	AA-45-51M11	940402
45AS61023-143	AA-45-51M11	961002
45AS61023-143	AA-45-51M11	970609
45AS61023-143	AA-45-51M11	990908
45AS61023-143	AA-45-51M11	67637015
45AS61023-143	AA-45-51M11	68372010
45AS61023-143	AA-45-51M11	ET0041
45AS61023-143	AA-45-51M11	ET0056
45AS61023-143	AA-45-51M11	ET0066
45AS61023-143	AA-45-51M11	ET0072

Table 2
(Military)
Model 400T (TT/TX)

HBC Part Number	Supplier Part Number	Serial Number
132-380000-13	AA-45-51M12	931101
132-380000-13	AA-45-51M12	950603
132-380000-13	AA-45-51M12	951104
132-380000-13	AA-45-51M12	960102
132-380000-13	AA-45-51M12	961202

SERVICE BULLETIN

- (2) Remove all power from the airplane and disconnect the battery. Display warning notices prohibiting reconnection of airplane electrical power.
- (3) Remove the pitch trim actuator from the airplane. Refer to PITCH TRIM ACTUATOR REMOVAL procedure in MM, Chapter 27-40-00 (commercial) or appropriate Job Guide (military).
- (4) Red-tag and return suspect PTAs to the address listed in Step 1. M. Warranty Credit.
- (5) Upon receipt of the overhauled PTA, install the unit into the airplane. Refer to PITCH TRIM ACTUATOR INSTALLATION procedure in MM, Chapter 27-40-00 (commercial) or appropriate Job Guide (military).
- (6) Reconnect the airplane battery, remove warning notices, and restore power.
- (7) Perform PITCH TRIM FUNCTIONAL TEST. Refer to MM, Chapter 27-40-00 (commercial) or appropriate Job Guide (military).
- (8) Perform the PITCH TRIM UPPER FORWARD ACCESS PANEL (BULLET) INSTALLATION procedure in MM, Chapter 27-40-00 (commercial) or appropriate Job Guide (military).
- (9) Ensure all work areas are clean and clear of tools and miscellaneous items of equipment.
- (10) Return airplane to service.

B. Spares

Red-tag and return suspect PTAs to the address listed in Step 1. M. Warranty Credit.

C. Record of Compliance

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