

# Advisory Wire

REFERENCE NO: AW300-27-0410

ATA: 27-41

SUBJECT: "PRI STAB TRIM FAIL" EICAS message  
Troubleshooting

EFFECTIVITY:

Challenger 300  
Challenger 350  
Challenger 3500

## 1. REFERENCES:

- 1.1. Aircraft Maintenance Manual (AMM) Task 45-45-01-970-802 – Data Download from the Maintenance Diagnostic Computer (MDC)
- 1.2. SmartFix Plus – B3-006881 HORIZ TRIM BRAKE 1 FAULT
- 1.3. SmartFix Plus – B3-006882 HORIZ TRIM BRAKE 3 FAULT

## 2. INTRODUCTION:

This Advisory Wire (AW) provides troubleshooting to help reduce unnecessary No Fault Found (NFF) removals of the Horizontal Stabilizer Trim Electronic Control Unit (HSTECU).

## 3. DESCRIPTION:

There have been a few cases reported where an HSTECU was replaced following a "PRI STAB TRIM FAIL" and subsequently found NFF by the repair facility. Our investigation revealed that the cause of the EICAS message can be due to the flight crew disconnecting the autopilot by pressing the Master Disconnect Switch (MSW) two (2) times within 1½ seconds, and not because of a defective HSTECU.

The supplier investigation revealed that disconnecting the autopilot by pressing the MSW two (2) times within 1½ seconds can cause a failure of the HSTA Brake monitor. This leads to a loss of the HSTECU Primary channel and the "PRI STAB TRIM FAIL" message being displayed on the EICAS.

Failure of the HSTA Brake monitor is causing the following faults recordings in the MDC (Ref. 1.1):

- HORIZ TRIM BRAKE 1 FAULT (B3-006881)
- HORIZ TRIM BRAKE 3 FAULT (B3-006882)

To prevent unnecessary HSTECU replacements, any amber "PRI STAB TRIM FAIL" EICAS message accompanied with a B3-006881 and B3-006882 MDC fault code should be investigated using the SmartFix Plus (Ref. 1.2 and 1.3) procedures.

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## 4. ACTION:

Bombardier recommends operators to familiarize themselves with the content of this AW and the SmartFix Plus procedures (Ref. 1.2 and 1.3).

Should you have any questions pertaining to this AW or require additional information, please contact your Bombardier Field Service Representative (FSR) or the Customer Response Center (CRC 24/7) team.