

Advisory Wire

REFERENCE NO: AW700-27-0673, Rev 01

ATA: 27-04

EFFECTIVITY: Global 7500

SUBJECT: "27 FLT CTRL - AFCU INOP"
Nuisance INFO Message

1. REFERENCES:

- 1.1. Global 7500 SmartFix Plus Troubleshooting Procedures
- 1.2. Bombardier Service Bulletin (SB) 700-27-7501 - MODIFICATION–GENERAL–INSTALLATION OF FLY-BY-WIRE CONFIGURATION 4.0

2. INTRODUCTION:

This AW is to inform operators that INFO message 27 FLT CTRL - AFCU INOP may be displayed as a nuisance under the conditions described below.

3. DESCRIPTION:

Nuisance 1:

The Primary Flight Control Controller (PFCC) should inhibit the monitor that checks the Slat/Flap surface positions during power up to allow the time to complete initialization. Because this inhibition logic is not incorporated on aircraft 70006-70086 pre-SB (Ref 1.2), the nuisance INFO message 27 FLT CTRL - AFCU INOP will be posted if the Slats and / or Flaps are in an extended position during aircraft power-up.

Nuisance 2:

A misalignment between PFCC and Slat Flap Electronic Control Unit (SFECU) logics causes the nuisance INFO message 27 FLT CTRL- AFCU INOP to be posted if the slats and / or flaps are retracting at halfspeed. This nuisance applies to aircraft 70006-70086 pre-SB (Ref 1.2).

Nuisance 3:

The Alternate Flight Control Unit (AFCU) could fail the power up test due to a nuisance AFCU internal issue. All G7500 aircraft can be affected by this condition.

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4. ACTION:

Nuisance 1:

If the 27 FLT CTRL- AFCU INOP occurs and the Slats and / or Flaps are in an extended position during aircraft power-up, perform the following to clear the condition:

- 1) Retract the Slat / Flap to the 0 degree position.
- 2) Turn off all 3 PFCCs using the cutout switches located on the overhead panel.
- 3) Ensure that all hydraulic pumps are selected to off and pressures are below 800 psi.
- 4) Ensure the PFCCs cutout switches are all indicating "OFF".
- 5) Turn on all 3 PFCCs using the cutout switches.

Following the above steps, the PFCC Power Up Built-In-Test (PBIT) will be automatically initiated thereby clearing the nuisance message. If the 27 FLT CTRL - AFCU INOP INFO message can't be cleared by using the steps above, perform the associated SmartFix Plus (SFP) troubleshooting procedure to resolve the condition.

To avoid future occurrences, Bombardier recommends incorporating Service Bulletin (Ref 1.2).

Nuisance 2:

If the condition is present when the Slats or Flaps are retracting at halfspeed, fixing the halfspeed issue will clear the 27 FLT CTRL - AFCU INOP nuisance INFO message condition.

To avoid future occurrences, Bombardier recommends incorporating Service Bulletin (Ref 1.2).

Nuisance 3:

If the 27 FLT CTRL – AFCU INOP occurs, perform the following to clear the condition:

- 1) Ensure that all hydraulic pumps are selected to off and pressures are below 800 psi.
- 2) Turn off all 3 PFCCs using the cutout switches located on the overhead panel.
- 3) Ensure the PFCCs cutout switches are all indicating "OFF".
- 4) Turn on all 3 PFCCs using the cutout switches.
- 5) Notify Bombardier of the issue occurrence.

Following the above steps, the PFCC Power Up Built-In-Test (PBIT) will be automatically initiated thereby clearing the nuisance message. If the 27 FLT CTRL - AFCU INOP INFO message can't be cleared by using the steps above, perform the associated SmartFix Plus (SFP) troubleshooting procedure.

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 Centre.