

ADVISORY WIRE

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Reference No AW300-27-0105, Rev 01 **INFORMATION TYPE:** Maintenance Operational

ATA: 27-32 **EFFECTIVITY** Challenger: 300 – 20003 – 20328

SUBJECT: “STALL PROTECT FAIL” Nuisance CAS Message

1. REFERENCES:

1.1 Aircraft Illustrated Parts Catalog 27-32-01

2. INTRODUCTION:

This Advisory Wire is to inform Operators of a nuisance CAS message “STALL PROTECT FAIL” (amber) that may be posted at the end of the Stall Protection Computer (SPC) power-up or during the Stall Warning System Pilot Activated Test (PAT). This Advisory Wire provides a procedure to validate whether there is an actual system fault.

3. DESCRIPTION:

Several Operators in the field have reported that the “STALL PROTECT FAIL” CAS message was intermittently posted during the SPC power-up or at the end of the Stall Warning System Pilot Activated Test (PAT) performed with the STALL/RUD LIM system panel. In some cases, the “STALL PROTECT FAIL (amber)” message can also be followed by these cascading CAS messages:

- AIR DATA 1/2 FAULT (amber)
- RUDDER LIMITER FAULT(cyan)
- STAB TRIM FAULT(cyan)
- SPOILERS FAULT (cyan)
- L (R) STALL SHAKER FAIL (cyan)

This condition can be cleared by resetting SPC Circuit Breakers (C/B).

The root cause of the issue has been identified as a failure of the ARINC 429 Loopback Test attributed to a specific ARINC Chip buffer not being cleared prior to running the self test. This condition occurs randomly depending on the timing of the loopback 429 test with respect to incoming ARINC data from other sources.

4. ACTION:

For aircraft still equipped with SPC PN: 822-1792-002, the instruction below may still apply. For aircraft equipped with SPC PN: 822-1792-003, this AW no longer applies.

- If the “STALL PROTECT FAIL” message appears after SPC power up, reset the SPC circuit breakers “SPC CH A” (CBP1-B10) and “SPC CH B” (CBP2-B10).
- If the message appears following a PAT, then reset the SPC circuit breakers “SPC CH A” (CBP1-B10) and “SPC CH B” (CBP2-B10). Perform another PAT and make sure the message does not come back.

If the “STALL PROTECT FAIL” CAS message and associated cascading messages do not clear after performing the steps above, troubleshooting should be performed.

Please note that troubleshooting tips are also available in SMARTFIX Plus Troubleshooting Tool available in the password-protected area of the Bombardier Customer Information Center (CIC) website at www.cic.bombardier.com to help aircraft technicians isolate, diagnose and solve issues for rapid return to service. SMARTFIX Plus will be updated to reflect this condition.