

Advisory Wire

REFERENCE NO: AW700-29-0714

INFORMATION
TYPE:

Maintenance
Operational

ATA: 29-31

EFFECTIVITY: Global 7500 aircraft (70006 – 79999)

**SUBJECT: HYD 3 ACCUM (1-2-3)
PRESS DEGRADED INFO
nuisance message**

1. REFERENCES:

1.1 AMP procedure - Hydraulic system accumulators – Servicing – BD700-A-J12-12-00-02AAA-200A-A

2. INTRODUCTION:

This Advisory Wire provides guidance on a possible “INFO” nuisance message posted on EICAS with an associated 29 HYD - HYD 3 ACCUM (1-2-3) PRESS DEGRADED message on the INFO synoptic page.

3. DESCRIPTION:

On the Global 7500, a pressure transducer is installed on each accumulator to report nitrogen pressure to the aircraft systems. Coupled with temperature data, the software establishes an upper and lower threshold in which it expects to see nitrogen pressure.

The Hydraulic Accumulator nitrogen temperature is established using the average between the selected total air temperature probe (TAT) and the hydraulic reservoir fluid temperature. The reservoir fluid temperature has significantly more thermal inertia when compared with the accumulator nitrogen. After landing, this maintains the expected servicing values in the range “38 to 60 deg. C” as long as the system is still pressurized, while the actual accumulator nitrogen temperature is not in this range.

During system depressurization, the accumulator nitrogen expands, causing its temperature to decrease and its pressure to undershoot the minimum servicing threshold value. This causes the nuisance “HYD 3 ACCUM (1-2-3) PRESS DEGRADED” INFO message to be displayed.

Investigation revealed that there is insufficient margin between the placard's low threshold and the lower limit of the INFO message threshold. Therefore the INFO message can be posted even with the pressure serviced as per the placards.

Bombardier is currently working on addressing this nuisance message with the avionic software build 2.2 update and revised accumulator servicing table placards.

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4. ACTION:

Bombardier recommends to service all hydraulic system 3 accumulators to the upper limit of approved pressure per the servicing placards and AMP task BD700-A-J12-12-00-02AAA-200A-A. This will mitigate the nuisance INFO message until a new pressure threshold update is released in the software upgrade and the servicing placards are revised.

Should you have any questions pertaining to this AW or require additional, please contact your Bombardier Field Service Representative (FSR) or the Customer Response Centre.