

ADVISORY WIRE

AW300-32-0084

DATE: April 3, 2008

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FROM: BOMBARDIER CUSTOMER SERVICES BUSINESS AIRCRAFT

ADVISORY WIRE

REFERENCE NO: AW300-32-0084

SUBJECT: Nose Landing Gear Downlock Proximity Sensor
Installation

EFFECTIVITY: BD100-1A10 (20003 – 20999)

ATA: 32-61

This Advisory Wire contains Operational and Maintenance Information

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1.0 REFERENCES:

- 1.1 Challenger 300 [Aircraft Maintenance Manual](#) (AMM)
Chapter 32-61-00, Task 32-61-00-820-801 – Adjustment of the Proximity Sensors
- 1.2 Advisory Wire No. AW600-32-2302

All manuals are available on the CIC website (<http://www.cic.bombardier.com>) within the Technical Library > Manuals > Maintenance & Flight Manuals > Maintenance and Flight Manuals > for Challenger > Challenger 300 Publications.

2.0 INTRODUCTION:

This Advisory Wire is to inform operators who recently replaced a Nose Landing Gear (NLG) Drag Brace (Part Number 40900-103), or have adjusted the NLG downlock proximity sensors, of a possible condition with the sensors.

3.0 DESCRIPTION:

During a production flight, a Challenger 605 aircraft experienced a NLG downlock erroneous indication. The NLG was down and locked but the NLG gear indication was red (gear disagree), indicating not down and locked. An Advisory Wire (Ref.1.2) was issued on March 19, 2008 to inform all affected Operators.

Subsequent investigation revealed that the clearance between one NLG downlock proximity sensor and the target was slightly out of limit.

All Challenger 605 and Challenger 300 aircraft in the production facility were verified to ensure proper adjustment of the NLG downlock proximity sensors.

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In addition, after verification, we have found that the dimension tolerances listed in Ref. 1.1 AMM Task were erroneous (0.060 in (1.524 mm) +0.015 in (0.381 mm), -0.005 in (0.127 mm); it should be 0.060 in (1.524 mm) +/- 0.005 in (+/-0.127 mm).

4.0 ACTION:

Operators should be aware of the possibility that an incorrectly adjusted downlock proximity sensor can result in erroneous NLG position indication. Measuring the clearance between the proximity sensor sensing-surface and the target, and ensuring it is within the dimension mentioned above, may help to prevent the operational impact of a NLG erroneous position indication. The dimension tolerances listed in Ref. 1.1 will be corrected in the next revision scheduled for release on April 10, 2008.

All Advisory Wires are available on the CIC website (<http://www.cic.bombardier.com>) within the Technical Library > Advisory/Alert Wires > Model > Challenger > Advisory Type > Advisory Wire.