

ADVISORY WIRE

AW700-32-0280

DATE: July 24, 2009

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FROM: BOMBARDIER CUSTOMER SERVICES BUSINESS AIRCRAFT

ADVISORY WIRE

REFERENCE NO: AW700-32-0280

SUBJECT: Nose Wheel Steering – Troubleshooting of
SCU GW415-8100-3

EFFECTIVITY:
Global Express aircraft (9002 to 9999)
Global Express XRS aircraft (9127 to 9999)
Global 5000 aircraft (9127 to 9999)

ATA: 32-51

This Advisory Wire contains Maintenance Information

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1.0 INTRODUCTION:

This Advisory Wire is issued to inform operators of a CAIMS troubleshooting shortcoming upon installation of the latest configuration Steering Control Unit (SCU) P/N GW415-8100-3.

2.0 DESCRIPTION:

The SCU P/N GW415-8100-3 has been introduced in production on aircraft 9312 and subsequent. This SCU -3 is being introduced on aircraft in service via the Illustration Part Catalog (IPC) on an attrition basis, upon SCU failure. The SCU -3 provides additional troubleshooting information for the Nose Wheel Steering (NWS) system through CAIMS. The current CAIMS LDI database, (named Penguin .032), does not support the SCU -3.

The discrepancy between the SCU -3 and the LDI database (Penguin .032) or older LDI versions will mislead operators in the troubleshooting of the NWS. To be able to troubleshoot the NWS system using CAIMS, the LDI database (Osprey .033) needs to be installed when it become available.

The SCU P/N GW415-8100-1 is not affected by this issue and will also be accommodated by the LDI version (Osprey .033). Neither the NWS system normal operation nor any other aircraft system is affected by this change.

Operators with SCU -3 are encouraged to use the SCU fault codes on the maintenance display window (Figure 1) to troubleshoot the NWS system until the revised LDI (Osprey .033) becomes available.

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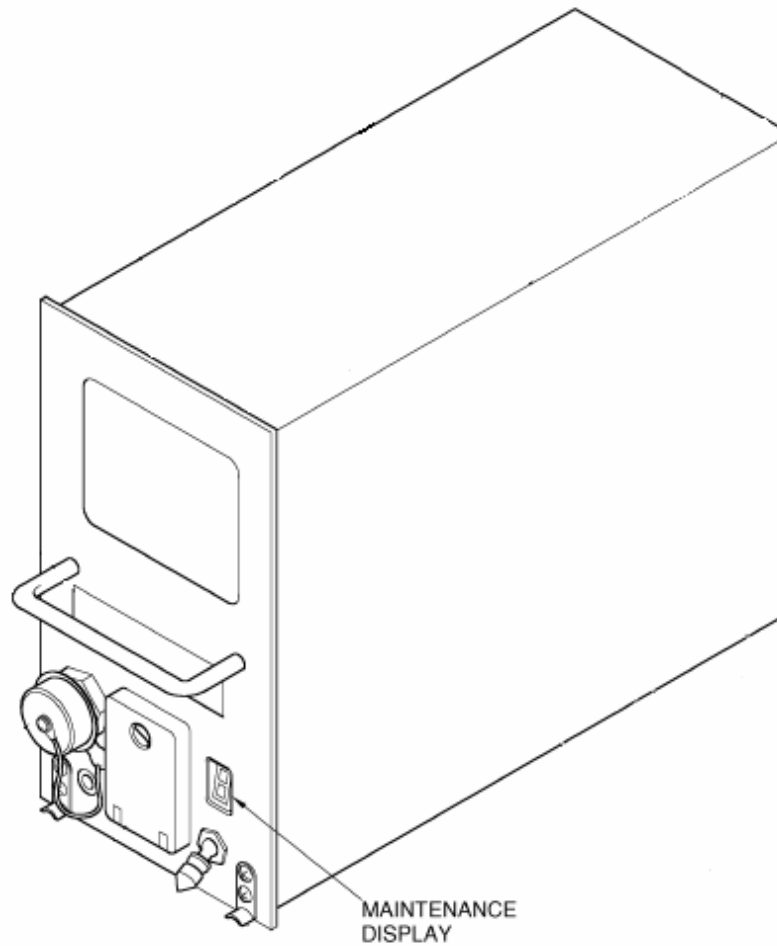
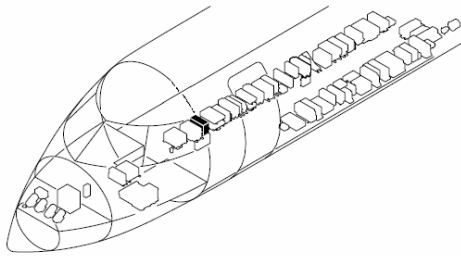


Figure 1

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The following table translates the fault code displayed on the SCU window:

CODES	STATUS
O	Ground mode, No fault
o	Air mode, No fault
-	NWS fault
1	ECU failure
2	Pilot handwheel RVDT fault
4	Rudder pedal RVDT fault
5	Steering solenoid valve fault
6	Pressure switch fault
7	Servo valve fault
8	Right feedback LVDT fault
9	Left feedback LVDT fault
A	Rigging mode entered
C	Rigging mode terminated
E	Rigging fault
P	Power fail warning

If the above information is insufficient, customers may perform a SCU fault download as per the AMM task 32-51-01-970-801 and forward it to the Bombardier Customer Response Center at ac.yul@aero.bombardier.com for assistance.

4.0 ACTION:

Bombardier is currently working on incorporating all the new SCU -3 data into the new LDI (Osprey .033) scheduled for release in Q4/09.