

Detailed GX Brake System Troubleshooting Report

Bombardier is gathering detailed troubleshooting information on the most frequently removed GX components. To support the technical investigation, FSRs and Service Centers are requested to open a condition report and complete this questionnaire when troubleshooting or removing a Brake System Component.

Downloads, completed condition reports, and questionnaires are to be returned:

- via the Lotus Notes Condition Report Application
- or by e-mail at: ac.yul@aero.bombardier.com

Reference Condition report number : _____

Aircraft and Component Identification

Complete table if information is not provided in reference Condition Report.

A/C S/N	A/C Hours	A/C Landings	Unit P/N	Modstrike	Unit S/N
Contact Name:			Date:	Phone No:	

EICAS MESSAGES			
Check the related fault message(s) below:			
<input type="checkbox"/> NORMAL BRAKE FAIL (WARNING)	<input type="checkbox"/> UNCOMMANDED BRAKE (CAUTION)	<input type="checkbox"/> PLT BRAKE FAULT (CAUTION)	<input type="checkbox"/> CPLT BRAKE FAULT (CAUTION)
<input type="checkbox"/> L OUTBD BRAKE FAIL (CAUTION)	<input type="checkbox"/> L INBD BRAKE FAIL (CAUTION)	<input type="checkbox"/> R INBD BRAKE FAIL (CAUTION)	<input type="checkbox"/> R OUTBD BRAKE FAIL (CAUTION)
<input type="checkbox"/> AUTOBRAKE FAIL (CAUTION)	<input type="checkbox"/> BRAKE 50% DEGRADED (CAUTION)	<input type="checkbox"/> BRAKE FAULT (ADVISORY)	<input type="checkbox"/> Others. Specify: _____

CAIMS INFORMATION	
Is the fault logged in the CAIMS Active Fault?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Fault # (i.e.: 3245429HA) _____	Fault nomenclature: (i.e.: BCU/WRG/DAU2B) : _____
Is the fault logged in the CAIMS BCU Flight Fault History?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Fault # (i.e.: 3245429HA) _____	Fault nomenclature: (i.e.: BCU/WRG/DAU2B) : _____
Is the fault logged in the CAIMS BCU Ground Fault History?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Fault # (i.e.: 3245429HA) _____	Fault nomenclature: (i.e.: BCU/WRG/DAU2B) : _____

FAULT DETAILS
Fault Description:
Report last Brake System maintenance or last sequence of event:

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FAULT DETAILS (Continued)	
When did the fault occur?	<input type="checkbox"/> Power up <input type="checkbox"/> On ground <input type="checkbox"/> In flight <input type="checkbox"/> Gear down selection <input type="checkbox"/> Gear up selection
How many units did the Brake temperature show on the EICAS when the fault occurred?	Left OB: ____ Left IB: ____ Right IB: ____ Right OB: ____
Was the message still posted after flight?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Was the problem intermittent?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Can the fault be reproduce while troubleshooting?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did you perform AW700-32-0244* instructions?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did fault(s) remain the same?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Was SMARTFIX PLUS* used for troubleshooting:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did you perform a wiring check?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the BCU replacement resolve the issue?	<input type="checkbox"/> Yes <input type="checkbox"/> No
S/N of new part installed: _____	

DATA COLLECTION ACTIONS	
This information is required when a TIRE BURST has occurred.	
Was the Aircraft in a hanger overnight before departure?	<input type="checkbox"/> Yes <input type="checkbox"/> No
WEATHER CONDITIONS	
Last 24 hours before Take Off	
Outside Air Temperature: _____ °F / °C <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Light Rain <input type="checkbox"/> Heavy Rain <input type="checkbox"/> Ice Rain <input type="checkbox"/> Snow	Runway conditions: <input type="checkbox"/> Dry <input type="checkbox"/> Wet <input type="checkbox"/> Covered with snow <input type="checkbox"/> Icy
On Take Off	
Outside Air Temperature: _____ °F / °C <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Light Rain <input type="checkbox"/> Heavy Rain <input type="checkbox"/> Ice Rain <input type="checkbox"/> Snow	Runway conditions: <input type="checkbox"/> Dry <input type="checkbox"/> Wet <input type="checkbox"/> Covered with snow <input type="checkbox"/> Icy
On Landing	
Outside Air Temperature: _____ °F / °C <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Light Rain <input type="checkbox"/> Heavy Rain <input type="checkbox"/> Ice Rain <input type="checkbox"/> Snow	Runway conditions: <input type="checkbox"/> Dry <input type="checkbox"/> Wet <input type="checkbox"/> Covered with snow <input type="checkbox"/> Icy

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Did you perform the following CAIMS BCU Initiated Bite Integrated Test (IBIT):

For BRAKE 50% DEGRADED and messages and TIRE BURST	
Control Valve Resistance Test CH A	<input type="checkbox"/> Yes <input type="checkbox"/> No
Control Valve Resistance Test CH B	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pressure Pulse Test CH A & CH B	<input type="checkbox"/> Yes <input type="checkbox"/> No
Shutoff Valve Operation Test CH A & CH B	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did you perform the Brake pressure monitoring test as described in SMARTFIX PLUS *?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Please describe any other relevant maintenance findings:	

*SmartFix tool and Advisory Wires are available on CIC Web Site (password protected)

DOWNLOADS
The info below is required for BRAKE FAULT, BRAKE 50% DEGRADED messages and TIRE BURST.
Perform a Non-Volatile Memory (NVM) download of the BCU, AMM TASK 45-45-00-970-822. Note: It may take several attempts to be able to do the download.
Was the BCU NVM download successful? <input type="checkbox"/> Yes <input type="checkbox"/> No
Perform a Flight Data Recorder (FDR) download AMM TASK 31-31-00-970-801 or a Quick Access Recorder (QAR) download TASK 31-33-00-970-801 of the last 3 flights.
Perform a Fault Warning Computer (FWC) Crew Alerting System (CAS) message download, AMM TASK 45-45-00-970-822.
Send BCU NVM, FDR, FWC CAS messages Download sent to Bombardier Customer Response Center (CRC) at ac.yul@aero.bombardier.com or your Bombardier Field Service Representant (FSR).