

AW700-Bombardier Inc.
P.O. Box 6087, Station Centre-Ville
Montréal, Québec,
Canada H3C 3G9
Telephone (514) 855-7469
Fax (514) 855-7072
<http://www.cic.bombardier.com>

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Business Aircraft

ADVISORY WIRE

AW700-24-0136

DATE: April 27, 2004	PAGE 1 OF 2
ADDRESS TO: DESTINATAIRE	A/C
FAX NUMBER: NUMÉRO DE FAX:	
FROM/DE: Bombardier Aerospace, Business Aircraft	
ADVISORY WIRE	
REFERENCE NO: AW700-24-0136	
SUBJECT: "ELEC SYS FAULT" or "ELEC SYS FAIL" Nuisance Messages Associated with DCPC Diodes	
EFFECTIVITY: BD700-1A10 (9002 & Subs)	
ATA: 24-61	
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1.0 INTRODUCTION

This Advisory Wire is to inform Operators of two conditions where an intermittent nuisance “ELEC SYS FAULT” and/or “ELEC SYS FAIL” message may be momentarily posted on the EICAS.

2.0 DESCRIPTION

The first condition is one where the message(s) may be permanently posted after shutting down the APU, or removing EXT AC power, and returning to battery power only. Another condition is where the messages may only be posted momentarily during DC power transfer resulting from generator switching.

The messages are posted in the above cases due to a timing issue within the DCPC software and occur during the self-test of diodes (D1 to D5). A “diode shorted” test is run continuously when the DC busses are powered (AC power on) and monitors for 28vdc on the diode cathode. If, during the test, the AC power is removed, the Solid State Power Controllers turn on and provide 28vdc to the anode of the diode. The software interprets this condition as the diode being shorted even though it is not.

While troubleshooting these CAS messages and looking in the CAIMS STORED FAULTS menus, the Operator may see the following messages “DCPC DIODE #1-D1 FAILED” or “DCPC DIODE #2-D2 FAILED” or “DCPC DIODE #3-D3 FAILED” or “DCPC DIODE #4-D4 FAILED” or “DCPC DIODE #5-D5 FAILED”.

3.0 ACTION

There are no actions for Operators to take at this time. If either or both of these messages are permanently posted on EICAS, we recommend that the BATT MASTER switch be set to OFF and then back ON. If the message(s) clears, than it should be considered a nuisance condition and no further action is required. If the message remains, further troubleshooting, using CAIMS, is required. If the message appears momentarily during power transfers, it should be ignored.