

ADVISORY WIRE

AW300-24-0024

DATE: January 28, 2005**PAGE:** 1 OF 4**FROM:** BOMBARDIER BUSINESS AIRCRAFT CUSTOMER SUPPORT

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REFERENCE NO: AW300-24-0024**SUBJECT:** Electrical System – Troubleshooting Tips**EFFECTIVITY:** BD100-1A10 (20006 & Subs)**ATA:** 24-00

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1.0 INTRODUCTION:

This Advisory Wire is to provide Operators with additional information to assist during troubleshooting of the Electrical System.

2.0 DESCRIPTION:

The following are tips that will prevent damaging components during the removal / installation process and will help diagnose Line Replaceable Unit (LRU) faults more accurately.

Non-Swappable Card:

The APU Logic card (PCB 11, p/n 801CE03Y05), located in the ADCPC, is not swappable with any other cards of the LH or RH DCPC. The card connector does not prevent inadvertent installation and it is possible to mechanically install the card in the wrong slot. Please note that the reference to this issue is already included in the latest SMARTFIX Model. Therefore, take all necessary care when installing the card to ensure it is installed in the right location.

PMOD Installation:

Should the Power Modules (PMOD's) need to be removed, refer to the AMM tasks 24-31-21-000-801 and 24-31-25-000-801 and consider the following:

Under normal circumstances DO NOT loosen the four captive fasteners that hold this module. These four captive fasteners are not adjustable and are screwed all the way in to hold the PMOD against the side of the DCPC in order to provide good heat dissipation.

ONLY in the case where it is difficult to remove the PMOD module, the four captive fasteners can be loosened slightly to aid in removal. DO NOT loosen the captive fasteners too much as the parts can come loose and fall inside the DCPC. Make sure they are retightened before the installation of the PMOD. Visually inspect the captive fasteners for damage.

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There is a possibility that the ADCPC chassis D-connector, mating with the PMOD plug, may shift when the PMOD is removed. This connector is designed to allow movement in order to line up with the PMOD connector. Special attention should be given to this connector when the PMOD is re-installed. Make sure it is lined up with the PMOD connector. This information will be included as a note in SMARTFIX Model 24-00_ELECTRICAL_SYS_BD100-007.

MDC fault code and access to Data Reader:

The Maintenance Data Computer (MDC) logic is designed to only show the LRU that has the highest probability of being faulty. Therefore, in some cases it has been noticed that the MDC did not report the LRU at fault. The other most probable faulty LRU(s) are being “masked” by the MDC logic. These other LRU(s) may help the technician to better understand the actual root cause of the fault. This additional information is available from the MDC and can be retrieved using the following steps.

1. Access the MAINTENANCE MAIN MENU of the MDC. This is done by simultaneously pushing the A/ICE, ECS, and FUEL buttons on the Cursor Control Panel.
2. Use the joystick to go down to ATA INDEX and press ENTER to select.
3. Select the ATA chapter posted in amber (in this case, 24) by scrolling down with the joystick and then pressing ENTER. This will bring you to the LRU INDEX PAGE.
4. Select the LRU that is posted in amber by scrolling down with the joystick and then pressing ENTER. This will bring you to the LRU OPERATIONS PAGE.
5. Press SKIP to tab down to the labels and then use the joystick to highlight the label you want to look at. Press ENTER to select.
6. This gives you the DATA READER page and shows which bits are set and which LRU(s) they correspond to.
7. Use SMARTFIX to determine the faulty LRU:

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3.0 ACTION:

Bombardier recommends that the Operators familiarize themselves with the above procedures.