

ADVISORY WIRE

AW300-24-0137

DATE: February 7, 2011

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FROM: BOMBARDIER CUSTOMER SERVICES BUSINESS AIRCRAFT

ADVISORY WIRE

REFERENCE NO: AW300-24-0137

SUBJECT: Y06 Electrical System Upgrade

EFFECTIVITY: BD100-1A10 (20003 – 20316)

ATA: 24

This Advisory Wire contains Operational and Maintenance Information

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1.0 REFERENCES:

- 1.1 Service Bulletin 100-24-12 - Modification - DC Power Center (DCPC) System – Replacement Of Printed Circuit Boards (PCB) In The Left, Right, And Auxiliary DCPC
- 1.2 Service Bulletin 100-24-15 - Modification – DC Power Center (DCPC) System – Replacement Of Printed Circuit Boards (PCB) In The Left, Right, And Auxiliary DCPC
- 1.3 Service Bulletin 100-24-17 - Modification – Primary DC Power Center (DCPC) System - Replacement Of Left, Right And Auxiliary Power Module, Part No. R3608-011 Without The Letter “G” Added To The Serial Number
- 1.4 Service Bulletin 100-24-18 - Modification – Primary DC Power Center (DCPC) System – Replacement Of Left, Right And Auxiliary Generator Control Unit, Part No. R3608-004 Without The Letter “A” Added To The Serial Number

2.0 INTRODUCTION:

This Advisory Wire is to inform Operators about the availability of the electrical system upgrade (Y06) Service Bulletins (SB) for the Challenger 300.

3.0 DESCRIPTION:

An electrical system upgrade (Ref 1.1 & 1.2 SB) is now available to Operators. This upgrade will greatly improve the Challenger 300 electrical system reliability with the following improvements:

- 3.1 Logic card (PCB3 and PCB4): The card's glass diodes are replaced by plastic diodes and a software change was made to mitigate the failure of fuse F13 failures during ground operations with external power in use.
- 3.2 Protection card (PCB1 and PCB2) and AUX logic card (PCB 11): The card's glass diodes are replaced by plastic diodes.

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3.3 Generator Control Unit card (PCBs 5, 6 and 9): software and component changes to improve the card's robustness in service.

3.4 Replacement of unshielded aircraft wiring for shielded wiring to improve the electrical system's Electro-Magnetic Interference (EMI) immunity.

To upgrade the aircraft in service to the latest electrical system standard, the ref. 1.1 SB is required for aircraft S/N 20003 to 20088 that are pre-SB100-24-08. The ref. 1.2 SB is required for aircraft S/N 20003 to 20088 that are post-SB100-24-08 and for aircraft 20089 to 20294. The new electrical system upgrade is installed in production on aircraft 20295 and subs.

Besides the ref. 1.1 and 1.2 SBs, the following SBs are also released to address two electrical system issues recently discovered in service:

The ref. 1.3 SB is released to address a design issue related to the electrical system's Power Module (PMOD), P/N R3608-0011, Amendments E and F. Refer to the SB and Advisory Wire AW300-24-0132 for a complete description of the issue.

The ref. 1.4 SB is released to address a quality issue related to the electrical system Generator Control Unit (GCU) P/N R3608-004. Refer to the SB for a complete description of the issue.

4.0 ACTION:

Operators should be aware of the above mentioned information. To minimize aircraft downtime, it is recommended to incorporate Ref. 1.1 to Ref. 1.4 Service Bulletins at the same time.

The ref. 1.1 to Ref. 1.4 SB are covered by a dedicated schedule. To ensure an effective update program, advance scheduling is required through our In-Service Implementation Team (ISIT). Operators will need to contact their Regional Manager (RM), Field Service Representative (FSR) or Customer Service Representative (CSR) to schedule their aircraft.