

Advisory Wire

REFERENCE NO:	AW300-38-0313	INFORMATION TYPE:	Maintenance Operational
ATA:	38-10	EFFECTIVITY:	Challenger 350 (20425/20501 to 20999)
SUBJECT:	Compact Water Module P/N 09-500000-004		

REFERENCES:

- 1.1 Completion Cabin Handbook (CH 350 COMP CH) (Specific to each aircraft)
- 1.2 Vendor Manual 38-10-ND TM500000-02 REV 2
- 1.3 RIL BD-0060 Rev 1, Water System Reset, Challenger 350
- 1.4 Service Bulletin(SB) 350-38-002 – Replacement of the Water System Pallet and Installation of Valve

INTRODUCTION:

This Advisory Wire is to inform Operators and Service Centers about the investigation into -004 Compact Water Module (CWM) removals post SB 350-38-002.

DESCRIPTION:

Following incorporation of the -004 CWM via the ref 1.4 SB, there have been numerous removals of the -004 CWM.

The majority of the cases show the CWM was replaced due to the system repeatedly going into reset mode. Upon acceptance testing at the supplier, most of the returned units were determined to be NFF and sent back into service.

During the investigation, conducted jointly by Bombardier and the supplier, it was noted that leaving the water system in the full and pressurized condition for an extended period of time may cause the water system to go into the reset mode when turned on. It is believed that this is due to over pressure inside the CVM.

Normally the heater tank on the right of the unit has an air cushion at the top. Although there are O-rings on the pressure relief valve at the top of the tank to prevent leaking, this air may escape and be replaced with water over time. Once there is no more air left at the top of the tank, an over pressure will occur immediately upon system start up.

ACTION:

In order to avoid unnecessary removals Operators should avoid leaving the water system in the full and pressurized condition. We recommend to fully purge your CWM after every flight. If you are experiencing

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the system repeatedly going into reset mode, we recommend to fully purge and reset the water system. Refer to ref.1.3 for step by step details.

The documents listed in the References section provide useful details on the water system operation and can be found on Bombardier Customer Portal. Library search by keyword.

Bombardier is still pursuing the investigation and will inform operators when more information becomes available.