



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

**CIVIL AVIATION DEPARTMENT  
MINISTRY OF TRANSPORT AND CIVIL AVIATION**

Male'  
Republic of Maldives

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## **AIRWORTHINESS DIRECTIVE**

No. CAD/DHC-8/09  
06 July 2000

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### **APPLICABILITY**

DHC-8 Aircraft  
Models 102, 103, 106, 201, **202**, 301, 311, 314 and 315  
Serial Numbers 003 to 550

### **SUBJECT**

Fuel - Fuel Tanks - Special Inspection of the bonding Integrity and Conditions of Bonding Jumpers, Conduit and probes in the Left and Right Side Fuel Tanks.

### **REFERENCE**

Service Bulletin Number 8-28-31, issued by Bombardier Inc. on 27 Dec 1999.

### **REASONS**

The purpose of this AD is to gather data of measurements and inspection of related components to validate design and make sure that all of the components ( bonding jumpers, conduit, tube assemblies and indicating components ) installed in the left and right wing fuel tank meet the aircraft design specifications.

Fuel tank systems require operational checks ( preflight and enroute ) and functional checks following maintenance actions which are usually conducted concurrently with other maintenance actions within the zone. Specific maintenance instructions are conveyed in the reference Service Bulletin to detect and correct conditions that may degrade the capabilities of the bonding jumpers in the fuel tanks.

### **DESCRIPTION**

The attached pages give the instructions to do a special inspections of the electrical bonding jumpers that are installed in the left and right wing fuel tanks.

The procedures in this AD give the instructions to:

Defuel the fuel tank, Remove the overwing fuel tank access panels from the left wing,  
Purge the fuel vapour from the fuel tank.

Examine each bonding jumper and measure the bonding resistance from a given position to suitable electrical ground in the sub - systems installations that follow:  
Low Level Warning Installation, Fuel System - Boost Pump Installation, Pilot Valve

Continued...

Installation, Pressure Relief Valve Installation, Vent Installation, Scavenge Ejector Pump Installation, Re - Fuel and Transfer Line Installation, Engine Fuel Line Installation, Waste Fuel Line Installation, Magna - Stick Indicators, Fuel Probes, Conduit and Wiring, AC Auxiliary Boost Pump Conduit, Dump Valve Pressure Relief Valve Conduit, and Low Level Float Switch Conduit.

## **COMPLIANCE**

Compliance is mandatory and shall be carried out within the next 25 hours of flight.

## **EFFECTIVITY**

This directive becomes effective July 15, 2000

Mahmood Razee  
**DIRECTOR GENERAL OF CIVIL AVIATION**