



New Product Availability Notice

NPA# P510547/510778-012503-7965JH

January 6, 2004

**Subject: Donaldson P/N: P510547 and P510778
Avionics and LCD Cooling System Filters
Bombardier P/N: 8SC0268-1 and 8SC0268-3**

Model: Bombardier Q400 (Dash 8-400)

**Reference: Filter Installation—Avionics and LCD Cooling System
Bombardier Aerospace MODSUM IS4Q2150001**

Introduction:

The purpose of this notice is to inform Bombardier Q400 operators that **Donaldson Company, Inc.** is the supplier of the new avionics and LCD cooling system filters. The new filters (Donaldson P/N P510547 and P510778) will be delivered on all new Bombardier Q400 airplanes and fit the entire existing fleet of Bombardier Q400 aircraft, no retrofit required. Donaldson recommends an 800 hour maintenance interval for the new filters. *These filters are now available for purchase and installation.*

Background:

Accumulations of dust on cockpit avionics circuit card assemblies can adversely affect the reliability of LCDs. Current maintenance procedures require removal of cockpit LCDs every 400 hours for component cleaning. This involves disconnecting electrical connections and running subsequent return-to-service checks. Use of Donaldson filters will significantly decrease dust accumulation and simplify maintenance. Contaminants will collect on the filters, which will be removed and replaced every 800 hours without disconnecting electrical circuits. Benefits include:

- Less dust accumulation, greater reliability of LCDs
- Extended 2X maintenance interval: 800 hours vs. 400 hours
- Easier maintenance procedure involving **no disconnection of electrical connectors**
- Faster return to service: remove old filters, insert new filters. No need for electrical reconnection or the subsequent return-to-service check.

Each ship set of Bombardier Q400 Avionics and LCD Cooling System Filters includes three (3) P510547 and two (2) P510778 filters. Installation procedures are specified in Bombardier Aerospace Modification Summary IS4Q2150001.

**For further information, please contact your local
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