

Q-400 Effectivity

LiteAir has a window plug for every window position on the Bombardier DHC-8-400 (Q400) airplane.

General Description

The Q400 lightweight assembly consists of an aluminum CNC machined window plug, and optional spacer ring. All parts have Parts Manufacturer Approval (PMA) and are certified via a Supplemental Type Certificate (STC) with worldwide validation. The assembly uses the same seal and retaining clips as the acrylic window assembly already on the airplane for ease and economy of installation. The spacer ring is used in lieu of the acrylic middle pane for additional weight savings and to reduce maintenance by eliminating all acrylic elements. The assembly has also been certified by FAA test to negate the requirement for a bonding strap to simplify installation still further. Detailed installation and maintenance instructions are provided for in service inspection and repair. The part numbers used at each location are shown below.



Part Number & Location

LAP4011-1	Window Plug	All window locations
LAP5005-1	Spacer Ring	All window locations

Benefits of using lightweight window plugs:

Saves weight: The window plug assembly weighs 1.4 pounds and spacer ring weighs 0.3 pounds. The weight of the acrylic windows being replaced is 4.2 pounds which results in a 2.5 pounds weight savings per window and 140 pounds per airplane for a typical passenger-to-freighter conversion (56 windows) and considerably more if replacing the Original Equipment Manufacturer (OEM) plug installation.

Saves fuel: At today's fuel prices the window plug installation can pay for itself in approximately four years.

Saves money: Lower component cost.

Easy to use: Simple as replacing a window.

Less installation time: The assemblies have been certified by FAA test to negate the requirement for a bonding strap which considerably reduces installation time.

Lower maintenance: All acrylic elements require frequent inspection. The use of the spacer ring eliminates all acrylic elements therefore significantly reducing maintenance.

Proven reliability: All parts are PMA approved and certified via FAA STC and worldwide validation. To date there are more than 40,000 Parts in service with a perfect service history.