

BOMBARDIER CHALLENGER 605 Model Guide

BOMBARDIER CHALLENGER 605 is a twin-engine jet with Collins Pro Line 21 avionics and a dual-channel, fail-passive autopilot. The listing supplied (serial 5904, built 2012) shows GE CF34-3B engines, 10 passengers, 2227 airframe hours, 1120 landings and an asking price of USD \$8.95M. These figures come from one listing and Bombardier documents, so check them against the aircraft's own records.

KEY TAKEAWAYS

- The example listing is a 2012 aircraft with 2227 airframe hours and 1120 landings, enrolled on CAMP tracking and Bombardier Smart Parts.
- Engines are GE CF34-3B, 2040:55 hours and 998 cycles each, enrolled on GE OnPoint 100%. The APU has 2223 hours and is on JSSI.
- The listing gives a max takeoff weight of 48,200 lbs and a max landing weight of 38,000 lbs.
- Landing gear and other structural parts have mandatory discard limits. Confirm each one's recorded usage in the aircraft's records.

EXAMPLE AIRCRAFT (SERIAL 5904)

The listing shows entry to service in December 2012, a 10-passenger cabin, a forward galley and an aft enclosed lavatory. It carries a commercial AOC under EASA EU OPS 1. Highlights include the TOSE ice and rain protection modification (SB605-30-001R3), upgraded seats and a 96-month inspection started at Bombardier UK.

AVIONICS AND AUTOFLIGHT

The listing shows four Collins adaptive flight displays, dual FMC-6000 flight management systems, dual WAAS-capable GPS, and TCAS II with change 7.1. The autoflight system has four flight control computers, dual flight directors, dual yaw dampers and a Safe Flight autothrottle. Only one yaw damper is active above 256 kts.

TIME LIMITS AND INSPECTIONS

Bombardier's time limits document lists mandatory discard limits. Examples are 19250 L for the main landing gear shock strut cylinder, 19480 L for the nose landing gear main fitting, 20000 L for the horizontal stabilizer trim actuator and 9600 L for the inboard flap vane beam. Gear component usage must be recorded from initial installation.

WEIGHT & BALANCE

Max Takeoff Weight Lbs	48200
Max Landing Weight Lbs	38000
Max Zero Fuel Weight Lbs	32000
Ramp Weight Lbs	48300
Empty Weight Lbs	26190
Typical Basic Operating Weight Lbs	27150

SAFETY NOTES

- The autopilot disengages if pitch goes beyond +25° or -17°, or roll beyond ±45°. Expect an abrupt change in control force if you disengage it during a mistrim.
- The listing's inspection table shows 12, 24, 48 and 96-month items due 22.12.20 to 22.02.21. Get current inspection status and a full pre-purchase inspection.
- Discard of safe-life structural and landing gear parts is mandatory at the listed limit. Verify each part's recorded usage.