

BOMBARDIER CHALLENGER 601-3R Model Guide

BOMBARDIER CHALLENGER 601-3R is a turbofan jet. Registry data covers the wider Canadair 601-3 family, with 601-3A, 601-3R and 604 variants. No variant-specific specs were supplied. The only detailed source is the Airplane Flight Manual revision log (CL-600-2A12, PSP 601-1B-1), which shows where procedures changed over time.

KEY TAKEAWAYS

- Family registry maxima: up to 3400 nm range, 432 kt cruise, 19 passengers. These are not confirmed for the 601-3R itself.
- The flight manual was revised repeatedly (Revs 61 to 82, 2006 to 2019). Buy only with a current, fully amended manual.
- Revisions touched fuel specifications and additives, anti-icing, thrust reversers and the APU. Check the records for these systems.
- Supplements cover a cracked windshield faceply, nose wheel steering inoperative, and flight with landing gear down.

SAFETY NOTES

- Rev 69 added a caution about pitch-up tendency when using reverse thrust with reduced flap settings.
- A cracked windshield faceply carries performance penalties (Supplement 14) and its own operating supplement (Supplement 17).
- A stall recovery procedure was introduced in Rev 71 and revised in Rev 75. Make sure crews use the current version.

FAMILY CONTEXT (NOT VARIANT-SPECIFIC)

The registry lists the 601-3 family from Canadair, with variants CL-601-3A, CL-601-3R and CL-604. Highest values across the family: range up to 3400 nm, cruise up to 432 kt, MTOW up to 19500 kg, up to 19 passengers, ceiling up to 45000 ft. Treat these as upper bounds, not 601-3R figures.

WHAT THE MANUAL REVISIONS REVEAL

Cold-weather work: Rev 62 stressed an aerodynamically clean airplane, Rev 70 added an ice dispersal procedure, and Rev 79 added supplemental ground wing anti-icing. Rev 69 added a pitch-up caution for reverse thrust with reduced flaps and instructions on wet brakes. Rev 81 added an unreliable airspeed procedure.

PRE-PURCHASE CHECKS

Confirm the manual revision status and all supplements. Ask whether the Honeywell APU 36-150(CL) service bulletin (Rev 61) and Service Bulletin 601-0165 (Rev 74) are incorporated. Check whether the forward auxiliary fuel tank is deactivated (Rev 64 limits). Check windshield condition against Supplement 17.