UNITED KINGDOM
CIVIL AVIATION AUTHORITY

FA48
Issue 2
March 2000
CL-600-2B16 (601- 3A Variant)
CL-600-2B16 (601-3R Variant)
CL-600-2B16 (604 Variant)

TYPE CERTIFICATE DATA SHEET No. FA48

This data sheet which is a part of CAA Type Certificate No. FA48 prescribes conditions and limitations under which the product, for which the Type Certificate was issued, meets the airworthiness requirements of the Civil Aviation Authority. UK Type Certification is based on the Transport Canada Certification as indicated in Transport Canada Type Certificate Data Sheet A-131.

TYPE CERTIFICATE HOLDER: Bombardier Inc.
P.O. Box 6087
Station Centre-Ville
Montreal, Quebec
Canada, H3C 3G9

MANUFACTURER: Bombardier Inc.

AIRCRAFT TYPE/ MODEL NUMBER(S): CL-600 Challenger

CL-600-2B16 (601-3A Variant)
CL-600-2B16 (601-3R Variant)
CL-600-2B16 (604 Variant)

TYPE DESIGN DEFINITION:

CL-600-2B16 (601-3A Variant) - Drawing List RAL-601A-105
CL-600-2B16 (601-3R Variant) - Drawing List RAL-601A-105
CL-600-2B16 (604 Variant) - Drawing List RAL-604-0001

CERTIFICATE BASIS:

UK Type Certification of the Type Design is on the basis of compliance with the Type Certification Basis of the Certificating State and the applicable UK Additional Requirements for Import for the type.

<u>Model CL-600-2B16 (601-3A & 601-3R Variants)</u>

1. Requirements of the Certificating State.

   a) FAR Part 25 dated February 1, 1965, including Amendments 25-1 through 25.37.

FAR Part 25, Amendment 25-38 paragraphs 675(a), 685(a), 733(c), 775(e), 787(c), 815, 841(b), 951(a), 979(d), and (e), 1041, 1143(e), 1303(a), 1322, 1385(c), 1557(b) and 1583(a); Amendment 25-40 paragraphs 901(b) and (c), 903(c), and (e), 933(a), 943, 959, 1091(a) and (d), 1145(c), 1199(b) and (c), 1207, 1549 and 1585(a) (9); Amendment 25-41 paragraph 1309; Amendment 25-42, paragraph 1353(c); Amendment 25-45, paragraphs 571 and 629(d) (4) (v); Amendment 25-46, paragraphs 351 and 603.

b) DOT Airworthiness Requirements contained in DOT letter to Canadair Limited, 5010-10-326 (LIAP), 31 July 1980.

c) Equivalent Safety has been established for the following requirements:

1) FAR 25.773 (b)(2) DV Window
2) FAR 25.955 (a)(4) Fuel Flow

d) Compliance with the following optional requirements has been established:

Ditching provisions of FAR 25.801 Ice Protection of FAR 25.1419

e) Special Conditions:

DOT Special Condition on stalls contained in DOT letter to Canadair Ltd. 5010-10-377 (ABP/A) dated 25 October 1982.

DOT Special Conditions on Automatic Take-off Thrust Control System contained in DOT letter to Canadair Ltd. 5010-10-377 (ABP/A) dated 8 November 1982.

FAA Special Condition 25-ANM-1, Issued in Federal Register 14 CFR Part 21 Docket NM-1 on March 24, 1983.

f) Additional FAA Requirements.

a) FAR Part 36 dated December 1, 1969, as amended through Amendment 36-9.

b) SFAR 27 dated February 1, 1974 as amended through Amendment SFAR 27-2.

2. UK Additional Requirements for Import for the Type.

As listed in CAA Publication CAP 480.

<u>Model CL-600-2B16 (604 Variant)</u>

1. Requirements of the Certificating State

a) FAR Part 25 dated February 1, 1965, including Amendment 25-1 through 25-78 except for the following:

FAR Part 25 at Amendment 25-37 for paragraphs 149, 365, 561, 625, 701, 727, 783 (except 783(f)), 785 (except 785(g)), 789, 791, 801, 803, 807, 809, 811, 812, 813, 831, 853, 855, 857, 1307, 1359, 1415, 1419.

FAR Part 25 at Amendment 25-37 for existing installation and Amendment 25-78 for new installation for paragraph 963, 965, 994, 997, and 1438

FAR Part 25 at Amendment 25-38 for paragraphs 787 and 1439
FAR Part 25 at Amendment 25-40 for paragraphs 25.973
FAR Part 25 at Amendment 25-42 for paragraphs 25.109 (as amended by TC Issue Paper F2)
FAR Part 25 at Amendment 25-44 for paragraphs 25.1413
FAR Part 25 at Amendment 25-54 for paragraphs 851

b) DOT Airworthiness Requirements contained in DOT letter to Canadair Limited, 5010-10-377 (ABP/A), 25 October 1982, except paragraph 5.

c) Equivalent safety has been established for the following requirements

1)	FAR 25.955(a)(4),	Fuel Flow
2)	FAR 25.103, .107, .119, .121, .125, .143, and .207 FAR 36, ICAO Annex 16, and Airworthiness Manual Chapter 516, Aircraft Noise and Emission at change 516-2	Reduced Operating Speed Factors (TC Issue Paper F-1)

d) Compliance with the following requirements has been established
FAR 25.801 Ditching Provisions
FAR 25.1419 Ice Protection

e) Special Conditions
94-2 High Intensity Radiated Fields (HIRF)
94-3 Lightning Protection

f) New FAR Part 25 requirements 562, 810, 819, 832, 858, 869, (a) & (b), 1421, 1423 and 1450 are not part of the certification basis.

g) Airworthiness Manual, Chapter 516, Aircraft Noise and Emission at change 516-2.

h) Airworthiness Manual, Chapter 511, Section 511.117, Function and Reliability Test Flying.

i) Additional Technical Conditions (Airworthiness Manual Chapter 525 Requirements)

525.105 (c)(1)	Take-off Performance, Unpaved Runways	Change 525-2
525.125 (b)	Landing Performance, Unpaved Runways	Change 525-2
525.201 (d)	Stall Demonstration	First Edition
525.207 (b)	Stall Warning	First Edition
525.697 (b)	Lift and Drag Devices	First Edition
525.699 (d)	Lift and Drag Devices, Indicator	First Edition
525.1301-1	Airplane Operation After Ground Soak	First Edition
525.1557 (b)(4)	Miscellaneous Markings and Placards	Change 525-3
525.1581 (e)(f)	Airplane Flight Manual	First Edition
525.1581 (g)	Wet and Contaminated Runways	Change 525-4

j) Compliance has been demonstrated with:

FAR Part 36 dated December 1, 1969, as amended through Amendment 36-20

FAR Part 34 dated August 25, 1990, as amended through Amendment 34-1

2. UK Additional Requirements for Import for the Type

As listed in CAA Publication CAP 480.

CERTIFICATION CATEGORY:

Transport Category (Passenger)

PERFORMANCE CATEGORY:

Group A - UK Air Navigation (General Regulations)
Class A - JAR - OPS 1

FLIGHT MANUAL

The limitations, recommended procedures and information required, are contained in the relevant Transport Canada approved documents:

Model CL-600-2B16 (601-3A & 601-3R Variants) -
Airplane Flight Manual PSP-601A-1

Model CL-600-2B16 (604 Variants) -
Airplane Flight Manual PSP-604-1

ENGINE:

Model CL-600-2B16 (601-3A Variant) -
Two - General Electric CF-34-3A or CF-34-3A2 or
One - General Electric CF-34-3A and One CF-34-3A2

Model CL-600-2B16 (601-3R Variant)
Two - General Electric CF-34-3A1

Model CL-600-2B16 (604 Variant)
Two - General Electric CF34-3B

Auxiliary Power Unit:

Garrett GTCP-36-100E

MAXIMUM WEIGHTS:

601-3A Variant	Lb	Kg
Maximum Taxying weight	44750	20299
Maximum take-off Weight	44600	20230
Maximum landing weight	36000	16329
Maximum zero fuel weight	31000	14061

MAXIMUM WEIGHTS: (Cont'd)

601-3R Variant	Lb	Kg
Maximum Taxying weight	45250	20525
Maximum take-off Weight	45100	20457
Maximum landing weight	36000	16329
Maximum zero fuel weight	31000	14061

604 Variant	Lb	Kg
Maximum Taxying weight	48300	21909
Maximum take-off Weight	48200	21863
Maximum landing weight	38000	17237
Maximum zero fuel weight	32000	14515

MINIMUM CREW

Two Pilots

MAXIMUM OCCUPANTS/PASSENGER:

This Type Certificate defines a configuration which does not include passenger provisions. Carriage of persons in the cabin is permitted when an approved seating arrangement and related required passenger provisions are incorporated in accordance with the Basis of Certification. With an approved seating arrangement installed the maximum number of occupants shall not exceed twenty-two (maximum number of passengers nineteen), nor the number of seats approved for use during take-off and landing.

OPERATING LIMITATIONS:

Refer to relevant CAA approved Flight Manual.

MANDATORY MAINTENANCE INSTRUCTIONS:

The airplane life limits and repetitive inspections for components and equipment are listed in Canadair Time Limits/Maintenance Checks, PSP 601A-5 (3A & 3R Variants) and PSP 604-5 (604 Variant).

This document and Canadair Maintenance Manual, PSP 601-2 (3A & 3R Variants) and PSP 604-2 (604 Variant), and Job Inspection Card Manuals PSP601A-22 (3A) and PSP 601R-22 (3R), PSP604-22 (CL604), NDT604-12 contain all information essential for proper maintenance.

NOISE:

CAA Noise Type Certificate No. 124.

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