



European Aviation Safety Agency

EASA

**TYPE-CERTIFICATE
DATA SHEET**

No. EASA.IM.A.570

For
BD-500 (CSERIES)

Type Certificate Holder:
C Series Aircraft Limited Partnership

13100 Henri-Fabre Blvd.
Mirabel, Québec, Canada
J7N 3C6

For Models: BD-500-1A10 (CS100)
BD-500-1A11 (CS300)



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SECTION 1: MODEL BD-500-1A10 (CS100)

I. General

This Data Sheet, which is part of Type Certificate No. EASA.IM.A.570, prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the European Aviation Safety Agency

1. Type/ Model/ Variant

BD-500 / BD-500-1A10 (C Series CS100 commercial designation)

2. Performance Class

A

3. Certifying Authority

Transport Canada Civil Aviation

4. State of Design Authority Certification Application Date

Initial: 10 December 2009
Deferred: 31 December 2011

5. EASA Type Certification Application Date

Initial: 4 March 2010
Deferred: 31 December 2011

6. State of Design Authority Type Certificate Date

17 December 2015

7. EASA Type Certification Date

15 June 2016

II. Certification Basis

1. Reference Date for determining the applicable airworthiness requirements

31 December 2011, nevertheless the 31st of October 2014 letter from TCCA was received (5010-A704 (10076915)) to elect to comply with CS-25 Amendment 12.

2. Reference Date for determining the applicable operational suitability requirements



SECTION 1: MODEL BD-500-1A10 (CS100) - continued

31 December 2011 for CS-FCD, CS-MMEL and CS-CCD.

3. State of Origin Airworthiness Authority Type Certification Data Sheet No.

TCCA Type Certificate Data Sheet No. A-236 (initial revision 17th of December 2015, or subsequent revisions)

4. State of Origin Airworthiness Authority Certification Basis

Refer to TCCA Type Certificate Data Sheet No. A-236.

5. EASA Airworthiness Requirements

EASA Certification Specification 25, Amendment 12.

EASA Certification Specification All Weather Operations (CS-AWO), Initial Issue.

5.1 Special Conditions

B-01	Flight in Icing Conditions
B-02	Stalling and Scheduled Operating Speeds
B-03	Motion and Effects of Cockpit Controls
B-04	Static Directional, Lateral & Longitudinal Stability & Low Energy Awareness
B-05	Flight Envelope Protection Design
B-14	Steep Approach
B-17	Normal Load Factor Limiting System
C-02	Composite Fuel Tanks – Uncontained Engine Debris
C-06	Design Dive Speed
C-07	Design Manoeuvre Load
C-08	Pilot Limit Forces & torques (Side Stick)
C-12	Tyre Debris vs. Fuel Leakage for CFRP Fuel Tanks
C-13	Automatic Braking System Loads
D-04	Post-Crash Fire – Composite Construction
D-07	Heat Release and Smoke Emission for Seat Installation
D-08	In-Flight Fire – Composite and Unusual Construction
D-14	Towbarless Towing
D-16	Control Surface Position Awareness and EFCS
E-01	Water/ Ice Fuel System
E-11	Fire Withstand Capability of CFPR Wing Fuel Tanks
F-01	HIRF Protection
F-10	Data Link Services for the Single European Sky
F-11	Flight Recorders, Data Link Recording
F-14	Flight Instrument External Probes – Qualification in Icing Conditions
F-21	Airborne Systems & Network Security
F-29	Lithium Battery Installations
F-32	Non Rechargeable Lithium Battery Installation

5.2. Deviations

None.

5.3. Equivalent Safety Findings

SECTION 1: MODEL BD-500-1A10 (CS100) - continued

B-24	Out of Trim
D-09	Burnthrough Protection at Aft Pressure Bulkhead
D-13	Pack-off Dispatch
D-23	Burnthrough on WTBF
D-26	Burnthrough on Lower Deck Cargo Compartment
D-30	APU Doors ESF
E-13	Fan Zone Non Fire Zone
E-14	Digital Only Displays of Power-Plant Instruments
E-15	Engine Ignition Switches
E-16	Automatic Take-Off Thrust Control System Indication
F-24	Passenger Cabin Minimum Mass Flow of Supplemental Oxygen
F-26	Crew Determination of Quantity of Oxygen in Passenger Oxygen System

5.4. Environmental Protection Requirements

EASA Certification Specification 36, Amendment 3
EASA Certification Specification 34, Initial Issue

For details of the certified noise levels see TCDSN EASA.IM.A.570.

6. Operational Suitability Requirements

6.1 Flight Crew Data

Certification Specifications for Operational Suitability Data (OSD), Flight Crew Data (CS-FCD), Initial Issue, 31 January 2014

6.2. Cabin Crew Data

Certification Specifications and Guidance Material for Cabin Crew Data (CS-CCD), Initial Issue - 31 January 2014.

6.3. Master Minimum Equipment List

Certification Specifications for Master Minimum Equipment List CS-MMEL Initial Issue dated 31 January 2014 (Book 1 only)
Bombardier MMEL development and approval plan Ref. EASA – BD-500 – ORI 4 Issue 2 – 13 February 2014 (as AMC/GM)



SECTION 1: MODEL BD-500-1A10 (CS100) - continued**III. Technical Characteristics and Operational Limitations****1. Type Design Definition**

Type design definition applicable to this TCDS for the BD-500-1A10 is defined in RAZ-BA500-027 at Rev. A or later approved revisions.

2. Description

The BD-500-1A10 model airplane is a swept-wing monoplane with a pressurized single-aisle cabin. The airplane is fitted with two (2) Pratt & Whitney PW1500G ultra-high bypass geared turbofan engines.

The Airplane structure, in general, is fabricated from advanced weight-saving materials (Carbon Fibre Reinforced Plastic (CFRP) and advanced aluminium alloys). Steel alloys and titanium are also used.

3. Equipment

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) and defined in the Type Certificate Type Design Definition (RAZ-BA500-027 Rev A or later approved revisions) must be installed in the airplane.

4. Dimensions

Wingspan	35.1 m (115 ft 1 in)
Overall Length	34.9 m (114 ft 9 in)
Height	11.8 m (38 ft 8 in)

5. Engines

Two (2) Pratt & Whitney PW1524G (EASA TCDS EASA.IM.E.090)

6. Auxiliary Power Unit

One (1) Honeywell 131-9(C)

For operating limits, see applicable AFM as listed in Section IV of this TCDS.

7. Propellers

N/A



SECTION 1: MODEL BD-500-1A10 (CS100) - continued**8. Fluids (Fuel, Oil, Additives, Hydraulics)**

In case of conflict with the applicable associated publication, the data contained in the associated publication takes precedence.

8.1 Fuel

Specification				
Canada	USA	UK	Australia	Other
CAN/CGSB-3.23	ASTM D1655 – JET A	Defence Standard 91-91	1QTA K/1/80	GOST 10227 – TS-1, RT
	ASTM D1655 – JET A1	--		GB6537-2006 JET No. 3
-	MIL-DTL-83133 – JP-8	-	-	-

For additional approved fuel grades, fuel additives, fuel temperature limitations and fuel quantity gauging inaccuracy, see applicable AFM as listed in Section IV of this TCDS.

8.2 Oil

Approved engine oils*BP Turbine Oil 2380, Royco/Aeroshell Turbine Oil 500, Royco 500, Mobil Jet Oil II, BP Turbo Oil 2197, Royco/Aeroshell Turbine Oil 560, Mobil Jet Oil 254

*Or additional approved oils as listed in the applicable Aircraft Maintenance Publication (AMP) BD500-3AB48-10200-00.

8.3 Hydraulics

Hydraulic fluid: HYJET IV – A PLUS (BAMS 564-003)*

*For additional approved fluids, see applicable Aircraft Maintenance Publication (AMP) BD500-3AB48-10200-00.

9. Fluid Capacities

In case of conflict with the applicable associated publication, the data contained in the associated publication takes precedence.

9.1 Fuel

See applicable AFM as listed in Section IV of this TCDS.

9.2 Oil

Maximum Engine Oil Volume: 24.4 liters

Minimum Engine Oil Volume: 8.23 liters



SECTION 1: MODEL BD-500-1A10 (CS100) - continued

Maximum APU Oil Volume: 7.74 quarts

Minimum APU Oil Volume: 2.74 quarts

See applicable Aircraft Maintenance Publication (AMP) BD500-3AB48-10200-00.

10. Airspeed Limits

Unless otherwise specified, speeds are indicated airspeeds

	<u>knots</u>	<u>Mach</u>
V _{MO} and M _{MO}	-	-
Sea Level to 8,000 ft.	300	-
10,000 ft. to 27,500 ft.	330	-
Above 27,500 ft.	-	0.82

For additional approved speeds, see applicable AFM as listed in Section IV of this TCDS.

11. Flight Envelope

Maximum Operating Altitude:

Take-off and Landing: 8,000 ft (2,438 m)

Enroute: 41,000 ft (12,497 m)

12. Operating Limitations

See applicable AFM as listed in Section IV of this TCDS.

12.1 Approved Operations

- Visual (VFR)
- Instrument (IFR)
- Icing Conditions
- Low weather minima (CAT I operations and CAT II operations)
- Ditching

12.2 Other Limitations

Maximum Ambient Temperature for Takeoff and Landing	+52.5°C
Minimum Ambient Temperature for Takeoff	-54°C
Minimum Ambient Temperature for Landing	-30°C
Runway slope	+/- 2%

13. Maximum Certified Weights

Weight	kg	lb
Maximum Ramp Weight (MRW)	61235	135000
Maximum Takeoff Weight (MTOW)	60781	134000
Maximum Landing Weight (MLW)	52390	115500
Maximum Zero Fuel Weight (MZFW)	50349	111000

For additional approved weight variants, see applicable AFM as listed in Section IV of this TCDS.



SECTION 1: MODEL BD-500-1A10 (CS100) - continued**14. Centre of Gravity Range**

See applicable AFM as listed in Section IV of this TCDS.

15. Datum

FS 0.0 is located 640 cm (252.0 in) forward of the aircraft nose.

16. Levelling Means

Aircraft is levelled in the longitudinal and lateral axis by means of a plumb bob and target plate in the rear fuselage/aft equipment bay at FS 1390.83.

17. Minimum Flight Crew

Two (2) – Pilot and Co-Pilot

18. Minimum Cabin Crew

(in accordance with the emergency evacuation test)

Three (3)

19. Maximum Aircraft Occupants

133 (including 1 Pilot, 1 Co-pilot, 1 Observer, a minimum of 3 Cabin Crew* and a maximum of 127 Passengers*)

* Maximum 130 cabin occupants when fitted with an approved interior.

20. Baggage/ Cargo Compartment

	Maximum Loading	
	lb	kg
Fwd Cargo Compartment	3742	1697
Aft Cargo Compartment	4548	2063

See applicable Weight and Balance Manual as listed in Section IV of this TCDS.

21. Wheels and Tyres**21.1 Wheels**

Nose Landing Gear: 12"

Main Landing Gear: 21"

21.2 Tyres

Nose Landing Gear: 27x8.5R12 - 16PR - 225 MPH

Main Landing Gear: H42x15.0R21- 26PR - 225 MPH



SECTION 1: MODEL BD-500-1A10 (CS100) - continued**22. ETOPS**

No ETOPS approval granted.

IV. Operating and Service Instructions**1. Airplane Flight Manual (AFM)**

Airplane Flight Manual (AFM), BD500-3AB48-22200-00, Issue 003, or later approved revisions.

2. Instructions for Continued Airworthiness and Airworthiness Limitations

The Instructions for Continued Airworthiness consist of the publications listed in the Aircraft Maintenance Publication (AMP) BD500-3AB48-10200-00 (Instructions for Continued Airworthiness, Data Module BD500-A-J00-00-00-00AAA-00VA-A).

Airworthiness Limitations (AWL), BD500-3AB48-11400-02, Issue 002 or later approved revisions.

Maintenance Review Board Report BD500-3AB48-11400-01 Issue 03 or later approved revisions.

3. Weight and Balance Manual (WBM)

Weight and Balance Manual, BD500-3AB48-22100-00-xxx, where xxx denotes the customer-specific code.

V. Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Aviation Safety Agency under the EASA Type Certificate [original TC number] as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014.

1. Master Minimum Equipment List

a. The MMEL is defined in BD500-3AB48-12701-00, Issue 001 or later approved revisions

2. Flight Crew Data

a. The Flight Crew Data is defined in BAT-BD500-OSD-FC, Initial Issue or later approved revisions

3. Cabin Crew Data

a. The Cabin Crew Data has been approved as per the defined Operational Suitability Data Certification Basis (see Chapter 2) and as demonstrated by the Bombardier CSCCD, Doc#CC-E-BD500-100 EASA Operational Suitability Data (OSD), Cabin Crew Data (CCD)



SECTION 1: MODEL BD-500-1A10 (CS100) - continued

for Bombardier CSeries BD-500-1A10 (CS100) Report, Issue 1, dated June 1st 2016", or later approved revisions.

b. The BD-500-1A10 aircraft model is determined to be a new type for cabin crew.

VI. Notes

1. Import Requirements:

- a. The Export Certificate of Airworthiness to EU country issued by TCCA should contain the following statement (in the English language):

"The aircraft covered by this certificate has been examined, tested, and found to conform to the Type Design approved under EASA Type Certificate No. EASA.IM.A.570 as defined in TCDS EASA.IM.A.570 issue 1 (or later revision) and to be in condition for safe operation."



SECTION 2: MODEL BD-500-1A11 (CS300)

I. General

This Data Sheet, which is part of Type Certificate No. EASA.IM.A.570, prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the European Aviation Safety Agency

1. Type/ Model/ Variant

BD-500 / BD-500-1A11 (C Series CS300 commercial designation)

2. Performance Class

A

3. Certifying Authority

Transport Canada Civil Aviation

4. State of Design Authority Certification Application Date

Initial: 10 December 2009

Deferred: 31 December 2011

5. EASA Type Certification Application Date

Initial: 4 March 2010

Deferred: 31 December 2011

6. State of Design Authority Type Certificate Date

8 July 2016

7. EASA Type Certification Date

07 October 2016

II. Certification Basis

1. Reference Date for determining the applicable airworthiness requirements

31 December 2011, nevertheless the 31st of October 2014 letter from TCCA was received (5010-A704 (10076915)) to elect to comply with CS-25 Amendment 12.



SECTION 2: MODEL BD-500-1A11 (CS300) - continued

2. Reference Date for determining the applicable operational suitability requirements

31 December 2011 for CS-FCD, CS-MMEL and CS-CCD.

3. State of Origin Airworthiness Authority Type Certification Data Sheet No.

TCCA Type Certificate Data Sheet No. A-236 (initial revision 17th of December 2015, or subsequent revisions)

4. State of Origin Airworthiness Authority Certification Basis

Refer to TCCA Type Certificate Data Sheet No. A-236.

5. EASA Airworthiness Requirements

EASA Certification Specification 25, Amendment 12.

EASA Certification Specification All Weather Operations (CS-AWO), Initial Issue.

5.1 Special Conditions

B-01	Flight in Icing Conditions
B-02	Stalling and Scheduled Operating Speeds
B-03	Motion and Effects of Cockpit Controls
B-04	Static Directional, Lateral & Longitudinal Stability & Low Energy Awareness
B-05	Flight Envelope Protection Design
B-17	Normal Load Factor Limiting System
C-02	Composite Fuel Tanks – Uncontained Engine Debris
C-06	Design Dive Speed
C-07	Design Manoeuvre Load
C-08	Pilot Limit Forces & torques (Side Stick)
C-12	Tyre Debris vs. Fuel Leakage for CFRP Fuel Tanks
C-13	Automatic Braking System Loads
D-04	Post-Crash Fire – Composite Construction
D-07	Heat Release and Smoke Emission for Seat Installation
D-08	In-Flight Fire – Composite and Unusual Construction
D-14	Towbarless Towing
D-16	Control Surface Position Awareness and EFCS
E-01	Water/ Ice Fuel System
E-11	Fire Withstand Capability of CFRP Wing Fuel Tanks
F-01	HIRF Protection
F-10	Data Link Services for the Single European Sky
F-11	Flight Recorders, Data Link Recording
F-14	Flight Instrument External Probes – Qualification in Icing Conditions
F-21	Airborne Systems & Network Security
F-29	Lithium Battery Installations
F-32	Non Rechargeable Lithium Battery Installation

5.2. Deviations

None.

5.3. Equivalent Safety Findings



SECTION 2: MODEL BD-500-1A11 (CS300) - continued

B-24	Out of Trim
D-09	Burnthrough Protection at Aft Pressure Bulkhead
D-13	Pack-off Dispatch
D-23	Burnthrough on WTBF
D-26	Burnthrough on Lower Deck Cargo Compartment
D-30	APU Doors ESF
E-13	Fan Zone Non Fire Zone
E-14	Digital Only Displays of Power-Plant Instruments
E-15	Engine Ignition Switches
E-16	Automatic Take-Off Thrust Control System Indication
F-24	Passenger Cabin Minimum Mass Flow of Supplemental Oxygen
F-26	Crew Determination of Quantity of Oxygen in Passenger Oxygen System

5.4. Environmental Protection Requirements

EASA Certification Specification 36, Amendment 3
EASA Certification Specification 34, Initial Issue

For details of the certified noise levels see TCDSN EASA.IM.A.570.

6. Operational Suitability Requirements

6.1 Flight Crew Data

Certification Specifications for Operational Suitability Data (OSD), Flight Crew Data (CS-FCD), Initial Issue, 31 January 2014

6.2. Cabin Crew Data

Certification Specifications and Guidance Material for Cabin Crew Data (CS-CCD), Initial Issue - 31 January 2014.

6.3. Master Minimum Equipment List

Certification Specifications for Master Minimum Equipment List CS-MMEL Initial Issue dated 31 January 2014 (Book 1 only)
Bombardier MMEL development and approval plan Ref. EASA – BD-500 – ORI 4 Issue 2 – 13 February 2014 (as AMC/GM)



SECTION 2: MODEL BD-500-1A11 (CS300) - continued
III. Technical Characteristics and Operational Limitations

1. Type Design Definition

Type design definition applicable to this TCDS for the BD-500-1A11 is defined in RAZ-BA503-027 at Rev. A or later approved revisions.

2. Description

The BD-500-1A11 model airplane is a swept-wing monoplane with a pressurized single-aisle cabin. The airplane is fitted with two (2) Pratt & Whitney PW1500G ultra-high bypass geared turbofan engines.

The Airplane structure, in general, is fabricated from advanced weight-saving materials (Carbon Fibre Reinforced Plastic (CFRP) and advanced aluminium alloys). Steel alloys and titanium are also used.

3. Equipment

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) and defined in the Type Certificate Type Design Definition (RAZ-BA503-027 Rev A or later approved revisions) must be installed in the airplane.

4. Dimensions

Wingspan	35.1 m (115 ft 1 in)
Overall Length	38.7 m (127 ft)
Height	11.5 m (37 ft 9 in)

5. Engines

Two (2) Pratt & Whitney PW1521G-3 (EASA TCDS EASA.IM.E.090)
Two (2) Pratt & Whitney PW1524G-3 (EASA TCDS EASA.IM.E.090)

6. Auxiliary Power Unit

One (1) Honeywell 131-9(C)
For operating limits, see applicable AFM as listed in Section IV of this TCDS.

7. Propellers

N/A

8. Fluids (Fuel, Oil, Additives, Hydraulics)



SECTION 2: MODEL BD-500-1A11 (CS300) - continued

In case of conflict with the applicable associated publication, the data contained in the associated publication takes precedence.

8.1 Fuel

Specification				
Canada	USA	UK	Australia	Other
CAN/CGSB-3.23	ASTM D1655 – JET A	Defence Standard 91-91	1QTA K/1/80	GOST 10227 – TS-1, RT
	ASTM D1655 – JET A1	--		GB6537-2006 JET No. 3
--	MIL-DTL-83133 – JP-8	--	--	--

8.2 Oil

Approved engine oils*:

BP Turbine Oil 2380, Royco/Aeroshell Turbine Oil 500, Royco 500, Mobil Jet Oil II, BP Turbo Oil 2197, Royco/Aeroshell Turbine Oil 560, Mobil Jet Oil 254

*Or additional approved oils as listed in the applicable Aircraft Maintenance Publication (AMP) BD500-3AB48-10200-00.

8.3 Hydraulics

Hydraulic fluid: HYJET IV – A PLUS (BAMS 564-003)*

* For additional approved fluids, see applicable Aircraft Maintenance Publication (AMP) BD500-3AB48-10200-00.

9. Fluid Capacities

In case of conflict with the applicable associated publication, the data contained in the associated publication takes precedence.

9.1 Fuel

See applicable AFM as listed in Section IV of this TCDS.

9.2 Oil

Maximum Engine Oil Volume: 24.4 liters

Minimum Engine Oil Volume: 8.23 liters

Maximum APU Oil Volume: 7.74 quarts

Minimum APU Oil Volume: 2.74 quarts

See applicable Aircraft Maintenance Publication (AMP) BD500-3AB48-10200-00.

10. Airspeed Limits



SECTION 2: MODEL BD-500-1A11 (CS300) - continued

Unless otherwise specified, speeds are indicated airspeeds

	<u>knots</u>	<u>Mach</u>
V _{MO} and M _{MO}	-	-
Sea Level to 8,000 ft.	300	-
10,000 ft. to 27,500 ft.	330	-
Above 27,500 ft.	-	0.82

For additional approved speeds, see applicable AFM as listed in Section IV of this TCDS.

11. Flight Envelope

Maximum Operating Altitude:

Take-off and Landing: 8,000 ft (2,438 m)

Enroute: 41,000 ft (12,497 m)

12. Operating Limitations

See applicable AFM as listed in Section IV of this TCDS.

12.1 Approved Operations

- Visual (VFR)
- Instrument (IFR)
- Icing Conditions
- Low weather minima (CAT I operations and CAT II operations)
- Ditching

12.2 Other Limitations

Maximum Ambient Temperature for Takeoff and Landing	+52.5°C
Minimum Ambient Temperature for Takeoff	-54°C
Minimum Ambient Temperature for Landing	-30°C
Runway slope	+/- 2%

13. Maximum Certified Weights

Weight	kg	lb
Maximum Ramp Weight (MRW)	68039	150000
Maximum Takeoff Weight (MTOW)	67585	149000
Maximum Landing Weight (MLW)	58740	129500
Maximum Zero Fuel Weight (MZFW)	55792	123000

For additional approved weight variants see applicable AFM as listed in Section IV of this TCDS.

14. Centre of Gravity Range

See applicable AFM as listed in Section IV of this TCDS.



SECTION 2: MODEL BD-500-1A11 (CS300) - continued

15. Datum

FS 0.0 is located 427 cm (168.0 in) forward of the aircraft nose.

16. Levelling Means

Aircraft is levelled in the longitudinal and lateral axis by means of a plumb bob and target plate in the rear fuselage/aft equipment bay at FS 1453.83.

17. Minimum Flight Crew

Two (2) – Pilot and Co-Pilot

18. Minimum Cabin Crew

(in accordance with the emergency evacuation test)

Three (3)

19. Maximum Aircraft Occupants

153 (including 1 Pilot, 1 Co-pilot, 1 Observer, a minimum of 3 Cabin Crew and a maximum of 145 Passengers)

20. Baggage/ Cargo Compartment

	Maximum Loading	
	lb	kg
Fwd Cargo Compartment	5393	2446
Aft Cargo Compartment	5746	2606

See applicable Weight and Balance Manual as listed in Section IV of this TCDS.

21. Wheels and Tyres

21.1 Wheels

Nose Landing Gear: 12"
Main Landing Gear: 21"

21.2 Tyres

Nose Landing Gear: 27x8.5R12 - 16PR - 225 MPH
Main Landing Gear: H42x15.0R21- 26PR - 225 MPH

22. ETOPS

No ETOPS approval granted.



SECTION 2: MODEL BD-500-1A11 (CS300) - continued

IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM)

Airplane Flight Manual (AFM), BD500-3AB48-32200-00, Issue 004, or later approved revisions.

2. Instructions for Continued Airworthiness and Airworthiness Limitations

The Instructions for Continued Airworthiness (ICA) consist of the publications listed in the Aircraft Maintenance Publication (AMP) BD500-3AB48-10200-00 (Instructions for Continued Airworthiness, Data Module BD500-A-J00-00-00-00AAA-00VA-A).

Airworthiness Limitations (AWL), BD500-3AB48-11400-02, Issue 002 or later approved revisions.

Maintenance Review Board Report BD500-3AB48-11400-01 Issue 03 or later approved revisions

3. Weight and Balance Manual (WBM)

Weight and Balance Manual, BD500-3AB48-32100-00-xxx, where xxx denotes the customer-specific code.

V. Operational Suitability Data (OSD)

1. Master Minimum Equipment List

a. The MMEL is defined in BD500-3AB48-12701-00, Issue 002, dated September 14th 2016, or later approved revisions.

2. Flight Crew Data

a. The Flight Crew Data is defined in BAT-BD500-OSD-FC, Revision 1, dated 28 Oct 2016 or later approved revisions.

3. Cabin Crew Data

a. The Cabin Crew Data has been approved as per the defined Operational Suitability Data Certification Basis (see Chapter 2) and as demonstrated by the Bombardier CSCCD, Doc#CC-E-BD500-100/300 EASA Operational Suitability Data (OSD), Cabin Crew Data (CCD) for Bombardier C Series Family (CS100; CS300), BD-500-1A10 (CS100) Report, BD-500-1A11 (CS300) Report, Issue 2, dated August 5th, 2016, or later approved revisions.

b. For cabin crew, the BD-500-1A11 aircraft model is determined to be the same type as the BD-500-1A10 model.



SECTION 2: MODEL BD-500-1A11 (CS300) - continued

VI. Notes

1. Import Requirements:

- a. The Export Certificate of Airworthiness to EU country issued by TCCA should contain the following statement (in the English language):

“The aircraft covered by this certificate has been examined, tested, and found to conform to the Type Design approved under EASA Type Certificate No. EASA.IM.A.570 as defined in TCDS EASA.IM.A.570 issue 1 (or later revision) and to be in condition for safe operation.”



SECTION 2: MODEL BD-500-1A11 (CS300) - continued

SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

AFM	Airplane Flight Manual
ALI	Airworthiness Limitation Items
AMC	Acceptable Means of Compliance
APU	Auxiliary Power Unit
AWO	All Weather Operations
CCD	Cabin Crew Data
CG	Center of Gravity
CRI	Certification Review Item
CS	Certification Specification
EASA	European Aviation Safety Agency
ESF	Equivalent Safety Finding
ETOPS	Extended Range Operations with Two-Engine Aeroplanes
EU	European Union
EWIS	Enhanced Wiring Interconnection System
FCD	Flight Crew Data
ICA	Instructions for Continued Airworthiness
ICAO	International Civil Aviation Organization
IFR	Instrument Flight Rules
OSD	Operational Suitability Data
PW	Pratt and Whitney
SC	Special Condition
TC	type Certificate
TCCA	Transport Canada Civil Aviation
TCDS	Type Certificate Data Sheet
TCDSN	Type Certificate Data Sheet for Noise
VFR	Visual Flight Rules

II. Type Certificate Holder Record

C Series Aircraft Limited Partnership
13100 Henri-Fabre Blvd.
Mirabel, Québec, Canada
J7N 3C6



SECTION 2: MODEL BD-500-1A11 (CS300) - continued

III. Change Record

Issue	Date	Changes	TC issue
Issue 01	16 June 2016	Initial Issue	Initial Issue, 15 June 2016
Issue 02	30 June 2016	Header correction and chapter 21 Baggage/ Cargo Compartment values corrected.	30 June 2016
Issue 03	20 July 2016	Removal of manufacturer information.	20 July 2016
Issue 04	07 October 2016	CS300 introduced in Section 2.	07 October 2016
Issue 05	18 Nov 2016	CS300 additional weights introduced. CS300 FCD introduced.	07 October 2016
Issue 06	28 Nov 2016	MRB report added.	07 October 2016
Issue 07	07 Dec 2016	Cargo Compartment values corrected. CS300 CCD OSD statement corrected.	07 October 2016
Issue 08	26 Apr 2017	Added CRI B-14, Steep Approach SC. CS100/CS300 Fuel Loads tables revised. Introduced engine PW1524G-3 for CS300. Removed engine variants in CS300 maximum certified weights tables. Introduced new weights in CS300 maximum certified weights tables. OSD FCD updated to cover Steep Approach. CS300 AFM updated to the Issue 6.	07 October 2016
Issue 09	02 Oct 2017	Transfer of TC to C Series Aircraft Limited Partnership	07 October 2016
Issue 10	29 Jan 2018	Various editorial changes.	07 October 2016

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