DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

A21EA Revision No. 45 Bombardier Inc.

CL-600-1A11 (600)

CL-600-2A12 (601)

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

CL-600-2B16 (604 Variant)

CL-600-2B19 (Regional Jet Series 100 & 440) CL-600-2C10 (Regional Jet Series 700, 701 & 702)

CL-600-2D15 (Regional Jet Series 705) CL-600-2D24 (Regional Jet Series 900)

CL-600-2E25 (Regional Jet Series 1000)

September 6, 2018

TYPE CERTIFICATE DATA SHEET NO. A21EA

This data sheet, which is part of Type Certificate No. A21EA, prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder: Bombardier Inc.

800 boul. René Lévesque West Montreal, Quebec, Canada

H3B1Y8

I - Model CL-600-1A11 (600) (Transport Category), Approved November 7, 1980, by the FAA and August 10, 1980, by the Canadian Department of Transport (DOT).

Engines	Two AVCO Lycoming ALF-502L or ALF-502L-2
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Fuel	Type			Specifications		
		Canada	U.S.A.	<u>U.K.</u>	<u>China</u>	Russia/Ukraine
	Jet A	CAN2-3.23	ASTM D1655	-	-	-
	Jet A-1	CAN2-3.23	ASTM D1655	DEF STAN	No. 3 Jet	TS-1* or RT
				91-91		
	Grade JP-5	-	MIL-DTL-5624	DEF STAN	-	-
				91-86		
	Grade JP-8	-	MIL-DTL-83133	DEF STAN	-	-
				91-87		
	Jet B	CAN2-3.22	ASTM D6615 I	D. Eng. RD2486	-	-
	JP-4	CAN2-3.22	MIL-DTL-5624 I	D. Eng. RD2454	_	-

Jet A and Jet A-1 fuels must contain an approved anti-icing additive unless Canadair Modification Summary 600-702 and Lycoming Service Bulletin ALF-502-79-0007 are incorporated.

*Refer to appropriate AFM listed in Approved Publication section when using TS-1.

Oil Engine, APU, Generator Adapter:

MIL-L-7808 (Type I) or MIL-L-23699 (Type II) or other approved oils as identified in the Maintenance

Manual (refer to Approved publications).

Engine Limits		SL Static Thrust (lb.)	Compres	ssor RPM		urbine erature	
		` ′	LP	HP	•		
			%N1	<u>% N2</u>	<u>°C</u>	°F	Time Limit
	Max. Takeoff	7500	96.0	98.2	904	1660	5 minutes
	Max. Continuous	7100	96.0	96.4	877	1610	-
	Starting Maximum				823	1513	10 seconds above
							793°C (1460°F)

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Oil Temperature	Maximum Permissible Transient* *Permitted during power steady state operation.	reduction. No	ormal temperature	must be ac	°C 143 170 Chieved with	°F 290 338 hin two minute	es of achieving
Oil Pressure	Maximum Minimum		Sea Leve At steady or high ic	state low	120 p.s.i. 30 p.s.i.		
APU Limits	Maximum RPM Maximum EGT: Starting (10 seconds) Running		110% °C 974 732	<u>°F</u> 1785 1349			
Airspeed Limits (CAS) (See NOTE 1)	V _{mo} and M _{mo} (maximus) Sea level to 10000 ft. above 10000 ft. V _{fe} (Flaps extended) V _a (maneuvering) (See AFM for variation of V ₁₀ (Landing Gear Oper V _{1e} (Landing Gear External Property of Control Property of Contro	20° 30° 45° of V $_{a}$ with altitration)	m.p.h. 345 368 265 226 193 ude and aircraft v 225 288	Knots 300 320 230 196 168 veight). 196 250	Mach - 0.79 - - - -		
C.G. Range (See NOTE 1)	Weight, lb. 24000 to 3130 36500 25800 24000 Straight line variation be		Forward L. <u>% MAC (S</u> 16% (+502. 18% (+504 iven.	<u>sta.)</u> 848)		Aft Lim <u>% MAC (\$</u> 28% (+513 33% (+518 33% (+518	.965) .598)
Datum	Fuselage station 0, locate	ed 375 inches f	orward of weighi	ng datum ji	ig point		
Mean Aerodynamic Chord (MAC)	92.644 in. (Leading edge	of MAC from	datum at +488.0	25 in.)			
Leveling Means	Target plate and plumb b	ob bracket wit	hin rear fuselage,	at fuselage	station 718	3.	
Maximum Weights (See NOTE 1)	Ramp Takeoff Landing		on at an increasec	l weight. So	ee AFM as i	in approved pu	blications.
Minimum Crew	Two (Pilot and Co-pilot)						
Maximum Occupants (See NOTE 1)	Twenty-one (includes cre	ew)					
Fuel Capacity	2 main tanks (each) 1 center tank Total	7	S. Gal. Imp. 32.5 611 751 625 2216 184	5.8	<u>Kg.</u> 2259.1 2316.1 6834.3	Weight, lb. 4981 5107 15069	Mom.Arm-in. (+506.5) (+457.5)

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	Usable 2 main tanks (each) 1 center tank Total See NOTE 1(b) for sy	stem fuel.	725 750 2200	605 625 1835	2236 2313 6785	4930 5100 14960	(+506.5) (+457.5)
Oil Capacity	2-engines (each) Total	1	<u>U.S. Gal.</u> 3.69 7.38	Imp. Gal. 3.07 6.14	<u>Kg.</u> 12.88 25.76	Weight, lb. 28.4 56.8	Mom.Arm-in. (+623) (+623)
	Usable 2-engines (each) Total See NOTE 1(c) for sys	stem oil.	1.94 3.87	1.61 3.22	6.76 13.52	14.9 29.8	(+623) (+623)
	APU Usable Total		.408 .714	.340 .594	1.43 2.49	3.144 5.5	(+675) (+675)
	Unusable		.306	.254	1.06	2.356	(+675)
Maximum Operating Altitude (See NOTE 1)	Takeoff and landing: En route:			t.		odification Sumn	naries 600-1923
Control Surface Movements	Rudder Elevator Horizontal Stabilizer Aileron Flap Flight Spoiler	– Inboard – Outboard	23 0° (+ 20	° (+1.0°, -0.5°) 1 .6° (+ or - 1.0°) 0.5° or -0.25°) I .8° (+ or - 1.0°)	Up LE Up Up	20° (+1.0°, -0 18.4° (+ or - 1 -9° (+ or - 0.5°) 21.3° (+ or - 1 0° - 45° (+ or - 0° - 46.7° (+ or -	.0°) Down) LE Down .0°) Down 1.0°) Down
Serial Numbers Eligible	1002, 1004 and subse	quent					
Service Information	Service Bulletins, stru document is Transport Approval Representat pertain to the type des	Canada approve are accepte	ved or Trans	sport Canada ap	proved thro	ugh the Manufact	turers Design

II - Model CL-600-2A12 (601) (Transport Category), Approved March 11, 1983, by the FAA and February 25, 1983, by the Canadian Department of Transport (DOT).

Engines	Two General Elec	etric CF-34-1A or	*			
Fuel	Туре			Specifications		
		<u>Canada</u>	<u>U.S.A.</u>	<u>U.K.</u>	<u>China</u>	Russia/Ukraine
	Jet A	CAN2-3.23	ASTM D1655	-	-	-
	Jet A-1	CAN2-3.23	ASTM D1655	DEF STAN	No. 3 Jet	TS-1* or RT
				91-91		
	Grade JP-5	-	MIL-DTL-5624	DEF STAN	-	-
				91-86		
	Grade JP-8	-	MIL-DTL-83133	DEF STAN	-	-
				91-87		
	Jet B	CAN2-3.22	ASTM D6615	D. Eng. RD2486	-	-
	JP-4	CAN2-3.22	MIL-DTL-5624	D. Eng. RD2454	-	-
	*Refer to appropr	iate AFM listed	in Approved Public	ation section when	using TS-1.	

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Oil

Engine, APU, Generator Adapter:

MIL-L-7808 (Type I) or MIL-L-23699 (Type II) or other approved oils as identified in the Maintenance Manual (refer to Approved Publications).

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	SL Static	Compr	essor RPM	Intert	urbine	
	Thrust (lb.)	_		Tempe	rature**	
		LP	HP			
		<u>%N1</u>	<u>%N2</u>	<u>°C</u>	<u>°F</u>	Time Limit
Max. takeoff	9140	98.6	99.4	857	1575	5 minutes
Normal takeoff	8650	96.2	98.3	842	1548	5 minutes
Max. continuous	8920	98.6	99.2	838	1540	
Idle range			62.9-64.0			
Min. Idle in icing conditions			64.0			
Transient:						
Max. takeoff				886	1627	2 minutes
Normal takeoff				864	1587	2 minutes
Start/relight				930	1706	16 seconds
				889	1632	50 seconds

^{*} One - General Electric CF-34-3A and one CF-34-3A2 or

One - General Electric CF-34-1A and one CF-34-3A or

One - General Electric CF-34-1A and one CF-34-3A2 or

Two - General Electric CF-34-3A or

Two - General Electric CF-34-3A2

Aircraft with two CF34-3A or CF34-3A2 engines installed, improved performance is not available until Canadair Service Bulletin 601-0238 - Modification - Engines - Use of 3A engines at 3A power settings, is incorporated.

NOTE

- 1. Above 40000 feet, engine anti-ice bleed or air conditioning unit must be selected ON for each engine.
- 2. Engine Limits with APR Operating are only applicable to Outside Air Temperatures of 4°F (- 20°C) and above.

Oil Temperature

Maximum Permissible (15 minutes Maximum)	<u>°C</u> +163	<u>°F</u> 325
Maximum for Single Engine Climb (60 minutes maximum)	+155	311
Maximum Continuous	+150	302
Minimum for Starting	-40	-40

Oil Pressure	

Maximum Transient Cold Start	100 psi	(Six minutes maximum)
Maximum Continuous	95 psi	
Minimum at Steady State Idle	25 psi	
Minimum at Takeoff (power):	40 psi	

APU Limits

Maximum RPM	110%	
Maximum EGT:	<u>°C</u>	°F
Starting (10 seconds)	974	1785
Running	732	1350

Airspeed Limits (CAS)

V_{mo} and M_{mo} (maximum	operating)	<u>m.p.h.</u>	Knots	Mach
Sea level to 10000 ft.		345	300	-
10000 ft. to 21420 ft.		420	365	-
21420 ft. to 25740 ft.		-	-	0.80
25740 ft. to 28640 ft.		385	335	-
above 28640 ft.		-	-	0.85
V _{fe} (Flaps extended)	20°	265	230	-
	30°	226	196	-
	45°	215	187	-

V_a (maneuvering)

(See AFM for variation of V_a with altitude and aircraft weight).

^{**}See AFM as listed in Approved Publications for CF-34-3A and CF-34-3A2 engines ITT limits.

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C.G. Range (See NOTE 1)	V ₁₀ (Landing Gear Operation V _{1e} (Landing Gear Extended Weight, lb. 25000 to 42250 42250 31000 25000 Straight line variation between) F <u>%</u> 16	226 288 orward Limi o MAC (Sta. % (+502.848	<u>)</u>	Aft Li: <u>% MAC</u> 30% (+51 35% (+52 35% (+52	(<u>Sta.)</u> 5.818) 0.450)
Datum	Fuselage station 0, located 37	5 inches forward	of weighing	datum jig point	•	
Mean Aerodynamic Chord (MAC)	92.644 in. (Leading edge of M	MAC from datum	at +488.025	in.)		
Leveling Means	Target plate and plumb bob b	racket within rear	fuselage, at	fuselage statior	718.	
Maximum Weights (See NOTE 1)	Ramp 4225 Takeoff 4210 Landing 3600 Zero Fuel 2950 Minimum flight weight 2500 *Certain aircraft are eligible fullications.	60 00 00 00	increased w	eight. See AFM	I as in approved	
Minimum Crew	Two (Pilot and Co-pilot)					
Maximum Occupants (See NOTE 1)	Twenty-two (includes crew).					
Fuel Capacity	2 main tanks (each) Auxiliary Tanks Total <u>Usable</u> 2 main tanks (each) Auxiliary Tanks Total	U.S. Gal. 721 1012 2454 720 1011 2451	Imp. Gal 600.4 842.7 2043.4 600 842 2042	2224 3121 7569 2221 3118 7560	Weight, lb. 4903 6882 16688 4896 6875 16667	Mom.Arm-in. (+506.6) (+455.6) (+506.6) (+455.6)
	See NOTE 1(b) for system fu	el.				
Oil Capacity	2-engines (each) Total	<u>U.S. Gal.</u> 1.70 3.40	Imp. Gal 1.42 2.83	<u>Kg.</u> 6.21 12.42	Weight, lb. 13.7 27.4	Mom.Arm-in. (+645.4) (+645.4)
	Usable 2-engines (each) Total See NOTE 1(c) for system oil	1.38 2.75	1.14 2.29	5.04 10.08	11.11 22.22	(+645.4) (+645.4)
	APU Usable Total	.408 .714	.340 .594	1.43 2.49	3.144 5.5	(+646.0) (+646.0)
	Unusable	.306	.254	1.06	2.356	(+646.0)
Maximum Operating Altitude	Takeoff and landing: En route:	10000 41000				

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Control Surface	Rudder		$25^{\circ} (+1.0^{\circ}, -0.5^{\circ})$ Left	25° (+1.0°,5°) Right
Movements	Elevator		23.6° (+ or - 1.0°) Up	18.4° (+ or - 1.0°) Down
	Horizontal Stabilizer		$0^{\circ} (+0.5^{\circ} \text{ or } -0.25^{\circ}) \text{ LE Up}$	-9° (+ or - 0.5°) LE Down
	Aileron		20.8° (+ or - 1.0 $^{\circ}$) Up	$21.3^{\circ} \text{ (+ or - } 1.0^{\circ}\text{) Down}$
	Flap	Inboard		0° - 45° (+ or - 1°) Down
		Outboard		0° - 46.7° (+ or - 1°) Down
	Flight Spoiler		0° - 40° (+3°, -0°) Up	

Serial Numbers Eligible 1003, 3001, and subsequent

Service Information

Service Bulletins, structural repair manuals, and aircraft flight manuals which contain a statement that the document is Transport Canada approved or Transport Canada approved through the Manufacturers Design Approval Representative are accepted by the FAA and are considered FAA approved. These approvals pertain to the type design only.

III - Model CL-600-2B16 (Transport Category), Approved April 30, 1987, by the FAA and April 21, 1987, by the Canadian Department of Transport (DOT).

Engines (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

> (601-3R Variant) Two General Electric CF-34-3A1 (Serial Number 5135 and subsequent) Approved by the FAA 15 July 1995.

(604 Variant) Two General Electric CF 34-3B (Serial Number 5301 and subsequent) Approved by the FAA 31 May 1995.

Fuel	Type			Specifications	3	
		Canada	<u>U.S.A.</u>	<u>U.K.</u>	<u>China</u>	Russia/Ukraine
	Jet A	CAN2-3.23	ASTM D1655	-	-	-
	Jet A-1	CAN2-3.23	ASTM D1655	DEF STAN	No. 3 Jet	TS-1* or RT
				91-91		
	Grade JP-5	-	MIL-DTL-5624	DEF STAN	-	-
				91-86		
	Grade JP-8	-	MIL-DTL-83133	DEF STAN	-	-
				91-87		
	Jet B	CAN2-3.22	ASTM D6615	D. Eng. RD2486	-	-
	JP-4	CAN2-3.22	MIL-DTL-5624	D. Eng. RD2454	-	-
	*Refer to appropr	riate AFM listed	in Approved Pub	lication section when	n using TS-1.	

Engine, APU, Generator Adapter:

MIL-L-7808 (Type I) or MIL-L-23699 (Type II) or other approved oils as identified in the Maintenance Manual (refer to Approved publications).

Oil

601-3A & 3R Variants							
Engine Limits	SL Static	Compressor RPM		Interturbine			
		Thrust (lb.)			Ten	np.**	
			LP	HP		•	
			%N1	<u>%N2</u>	<u>°C</u>	<u>°F</u>	Time Limit
	Max. takeoff	9140	98.6	99.4	871	1600	5 minutes
	Normal takeoff	8650	96.2	98.3	856	1573	5 minutes
	Max. continuous	8920	98.6	99.2	860	1580	
	Idle range			62.9-64.0			
	Min. Idle in icing conditions			64.0			
	Transient:						
	Max. takeoff				900	1652	2 minutes
	Normal takeoff				878	1612	2 minutes
	Start/relight				930	1706	16 seconds
	-				903	1657	50 seconds

^{**} See AFM as listed in Approved Publications for CF-34-3A and CF-34-3A2 engines ITT limits.

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NOTE

1. Above 40000 feet, engine anti-ice bleed or air conditioning unit must be selected ON for each engine.

2. Engine Limits with APR Operating are only applicable to Outside Air Temperatures of -4°F (-20°C) and above.

Oil	Temperature
(711	I CHIDCIALUIC

	<u>~C</u>	<u> </u>
Maximum Permissible (15 minutes Maximum):	+163	325
Maximum for Single Engine Climb (60 minutes maximum):	+155	311
Maximum Continuous:	+150	302
Minimum for Starting:	-40	-40

Oil Pressure Maximum Transient Cold Start: 100 psi (6 min. maximum)

Maximum Continuous: 95 psi Minimum at Steady State Idle: 25 psi Minimum at Takeoff (power): 40 psi

APU Limits Maximum RPM 110%

<u>°C</u> 974 Maximum EGT: Starting (10 seconds) 1785 Running 731 1348

Airspeed Limits (CAS)

$V_{\mbox{mo}}$ and $M_{\mbox{mo}}$ (maximum op	erating)	<u>m.p.h.</u>	Knots	Mach
Sea level to 10000 ft.		346	301	-
10000 ft. to 21330 ft.		414	360	-
21330 ft. to 25640 ft.		-	-	0.79
25640 ft. to 28720 ft.		380	330	-
above 28720 ft.		-	-	0.835
V _{fe} (Flaps extended)	20°	267	232	-
	30°	228	198	-
	45°	218	190	-

Va (maneuvering)

(See AFM for variation of V_a with altitude and aircraft weight).

V₁₀ (Landing Gear Operation) 226 197 V_{1e} (Landing Gear Extended) 288 250

C.G. Range		Forward Limit	Aft Limit
(See NOTE 1)	Weight, lb.	% MAC (Sta.)	% MAC (Sta.)
	25000 to 42250	16% (+502.848)	
	43250		30% (+515.818)
	31000		35% (+520.450)
	25000		35% (+520.450)

Straight line variation between points given.

11. *

Datum

Fuselage station 0, located 375 inches forward of weighing datum jig point

(MAC)

Mean Aerodynamic Chord 92.644 in. (Leading edge of MAC from datum at +488.025 in.)

Leveling Means

Target plate and plumb bob bracket within rear fuselage, at fuselage station 718.

Maximum Weights (See NOTE 1)

	<u>10. *</u>
Ramp	43250
Takeoff	43100
Landing	36000
Zero Fuel	29500
Minimum	25000

*Certain aircraft are eligible for operation at different weights. See AFM as in approved publications. 601-3R Variant for aircraft S/N 5135 and subsequent.

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Minimum Crew	Two (Pilot and Co-pilot)						
Maximum Occupants	Twenty-two (includes crew).						
	, , , , , , , , , , , , , , , ,						
604 Variant Engine Limits	CF34-3B	SL Static Thrust (lb.)	Compres	sor RPM	Interturbir	ne Temp.	
		Till ust (10.)	LP	HP			
	Max. takeoff Normal takeoff Max. continuous Idle range Min. Idle in icing conditions Transient:	9220 8729 9140	%N1 98.6 96.2 98.6	%N2 99.4 98.3 99.2 62.9-64.0 64.0	<u>°C</u> 899 884 899	<u>°F</u> 1650 1623 1650	Time Limit 5 minutes 5 minutes
	Max. Takeoff				928	1702	2 minutes
	Normal Takeoff Start/relight				906 930	1663 1706	2 minutes 16 seconds
	Starvienght				903	1657	50 seconds
	1 11 10000 6		NOTE		. 1 1 .	10116	
	1. Above 40000 feet, engine an	ti-ice bleed or a	ıır conditioi	ning unit mi	ist be select	ed ON for	each engine.
	2. Engine Limits with APR Ope above.	erating are only	applicable 1	to Outside A	Air Tempera	tures of -4°	°F (-20°C) and
Oil Temperature					<u>°C</u>	<u>∘F</u>	
	Maximum Permissible (15 minu Maximum for Single Engine Cli			·)·	+ 16 3 +155	325 311	
	Maximum Continuous:	ino (oo minute	s maximum	.,.	+150	302	
	Minimum for Starting:				-40	-40	
Oil Pressure	Maximum Transient Cold Start: Maximum Continuous: Minimum at Steady State Idle: Minimum at Takeoff (power):		115 _I 95 p 25 p 45 p	osi osi	0 min. maxi	mum)	
APU Limits							
	Maximum RPM Maximum EGT: Starting (10 seconds) Running		110% <u>°C</u> 974 731	<u>°F</u> 1785 1348			
Airspeed Limits (CAS)	V _{mo} and M _{mo} (maximum oper	ating)	<u>m.p.</u>	h. Knots	Mach		
	Sea level to 8000 ft.		345		-		
	8000 ft. to 22160 ft.		400		- 0.70		
	22160 ft. to 26570 ft. 26570 ft. to 30997 ft.		366	5 318	0.78		
	above 30997 ft.		-	-	0.85		
	V _{fe} (Flaps extended)	20°	266	221			
	Te (1 laps extended)	30°	266 227		-		
		45°	217		-		
	V _a (maneuvering)						
	(See AFM for variation of V _a w	ith altitude and	aircraft we	ight).			
	V ₁₀ (Landing gear operation)		227	197	-		
	V _{1e} (Landing gear extended)		288	3 250	-		

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C.G. Range (See NOTE 1)	Weight, lb. 26000 to 3800 39500 to 4475 47700 47700 to 4300 38000 to 2600 Straight line variation betw	0000	% 20 16 20	orward Limit <u>6 MAC (Sta.)</u> % (+506.553) % (+502.847) % (+506.553)		Aft Lin MAC (38% (+523 35% (+520	Sta.) 3.228)
Datum	Fuselage station 0, located	375 inches	forward of w	eighing datum j	ig point.		
Mean Aerodynamic Chord (MAC)	92.644 in. (Leading edge of	of MAC from	m datum at +4	188.025 in.)			
Leveling Means	Target plate and plumb bo	b bracket w	ithin rear fuse	lage, at fuselage	e station 718.		
Maximum Weights (See NOTE 1)	Ramp Takeoff Landing Zero Fuel Minimum *Certain aircraft are eligib! Variant for aircraft S/N 51			nt weights. See .	AFM as in ap	proved public:	ations. 601-3R
Minimum Crew Maximum Occupants	Two (Pilot and Co-pilot) Twenty-two (includes crew	y).					
601-3A Variant Fuel Capacity	Usable 2 main tanks (each) Fuselage tanks Total See NOTE 1(b) for system	fuel.	<u>U.S. Gal.</u> 727 1017 2472	Imp. Gal. 605 847 2059	<u>Kg.</u> 2227 3115 7569	Weight, lb. 4909 6868 16686	Mom.Arm-in. (+506.6) (+455.6)
601-3R Variant Fuel Capacity	Usable 2 main tanks (each) Fuselage tanks Tail tank Total See NOTE 1(b) for system	fuel.	U.S. Gal. 727 1010 187.7 2651.7	Imp. Gal. 605 841 156.24 2207.24	<u>Kg.</u> 2227 3115 579 8148	Weight, lb. 4909 6868 1276 17962	Mom.Arm-in. (+506.6) (+455.6) (+816.7)
604 Variant Fuel Capacity	Usable 2 main tanks (each) Auxiliary tank Tail tank Total See NOTE 1(b) for system	fuel.	<u>U.S. Gal.</u> 720 1062 461 2963	Imp. Gal. 600 884 384 2467	<u>Kg.</u> 2205 3251 1411 9072	Weight, lb. 4860 7168 3112 20000	Mom.Arm-in. (+506.6) (+450.6) (+771.7)
Oil Capacity	601-3A Variant* 2-engines (each) Total Usable 2-engines (each) Total See NOTE 1(c) for system	oil.	U.S. Gal. 1.70 3.40 1.38 2.75	Imp. Gal. 1.42 2.83 1.14 2.29	<u>Kg.</u> 5.94 11.88 4.80 9.60	Weight, lb. 13.09 26.18 10.59 21.18	Mom.Arm-in. (+653.0) (+653.0) (+653.0) (+653.0)

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<u>APU</u>	
	+646.0)
Total .714 .594 2.49 5.5 (+	+646.0)
Unusable .306 .254 1.06 2.356 (+	+646.0)

*601-3R Variant & 604 Variant - same as 601-3A, except as listed in the AFM approved

publication.

Maximum Operating Takeoff and landing: 10000 ft.
Altitude En route: 41000 ft.

Control Surface Movements Rudder 25° (+1°, -0.5°) Left 25° (+1° or -0.5°) Right

Flight Spoiler $0^{\circ} - 40^{\circ} (+3^{\circ}, -0^{\circ})$ Up

Serial Numbers Eligible 5001 and subsequent

Service Information Service Bulletins, structural repair manuals, and aircraft flight manuals which contain a statement that the

document is Transport Canada approved or Transport Canada approved through the Manufacturers Design Approval Representative are accepted by the FAA and are considered FAA approved. These approvals

pertain to the type design only.

IV - Model CL-600-2B19 (Transport Category), Regional Jet Series 100 Approved January 21, 1993, by the FAA and July 31, 1992, by Transport Canada.

Model CL-600-2B19 (Transport Category), Regional Jet Series 440 Approved November 30, 2001, by the FAA and October 4, 2001, by Transport Canada.

Engines Two General Electric CF-34-3A1 or

Two General Electric CF-34-3B1

Engines may be intermixed in accordance with AFM as listed in Approved Publications.

Fuel	Туре	Specifications								
		Canada	U.S.A.	<u>U.K.</u>	China	CIS/Ukraine	NATO			
	Jet A	CGSB-3.23	ASTM	-	-	-	-			
			D1655							
	Jet A-1	CGSB-3.23	ASTM	DEF STAN	GB6537-2006	TS-1* or RT	F-35			
			D1655	91-91	No. 3 Jet					
	Grade JP-5	CGSB-3.24	MIL-DTL-	DEF STAN	-	-	F-44			
			5624	91-86						
	Grade JP-8	CGSB-3.24	MIL-DTL-	DEF STAN	-	-	F-34			
			83133	91-87						
	Jet B	CAN2-3.22	ASTM	D. Eng.	-	-	-			
			D6615	RD2486						
	Grade JP-4	CAN2-3.22	MIL-DTL-	D. Eng.	-	-	-			
			5624	RD2454						

^{*}Refer to appropriate AFM listed in Approved Publication section when using TS-1.

Oil Engine, APU and IDG:

MIL-L-7808 (Type I) or MIL-L-23699 (Type II) or CASTROL 4000. *

^{*} Mixing of different types of oils is prohibited.

Engine Limits		Fan RPM	Core RPM	Γ	ГТ	Time Limit
		<u>%N1</u>	<u>% N2</u>	<u>°C</u>	<u>°F</u>	(Min)
	Max. takeoff (APR operating)	98.6	99.4	900	1650	5***
				928	1702	2*
	Normal takeoff	96.2	98.2	884	1623	5***
		_		900	1650	2*

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Max. Continuous	98.6	99.2	860/874	1580/1605	-
			(3A1/3B1)	(3A1/3B1)	
Idle Range	-	56.5 to 68.0**	-	-	-
Acceleration	-	-	900	1652	-
Starting	-	20.0	900	1652	-
-					

^{* 2} minutes out of 5 total transient.

** Refer to Idle Speed Limit Chart in the AFM If N_2 idle RPM is more than 2% lower, do not advance thrust lever above 70% N_2 until N_2 idle RPM has stabilized to within normal limits.

*** Transient limits.

NOTE: Above 40000 feet, one air conditioning unit or cowl anti-ice must be selected on for each engine

Oil Temperature			<u>°C</u>	<u>°F</u>
-	Maximum Permissible (15 minutes Maximum))	+163	325
	Maximum Continuous		+155	311
	Minimum for Starting		-40	-40
Oil Pressure	Maximum Transient (after cold start) Maximum Continuous Take-off Power Steady State Idle	156 psi (130 psi at idle, 115 psi maximum 45 psi minimum 25 psi minimum	10 minutes	maximum)*

* Engine must remain at idle until oil pressure returns to normal range.

APU GARRETT GTCP-36-150RJ

APU Limits	Maximum RPM	107%
	Maximum EGT:	<u>°C</u>
	Starting	974 1785*
	Running	743 1369

^{*} Not to be exceeded under any operating condition.

Airspeed Limits (CAS)	V _{mo} and M _{mo} (maximum	<u>m.p.h.</u>	Knots	Mach	
	Sea Level to 8000 ft.	380	330	-	
	8000 ft. to 25400 ft.		386	335	-
	25400 ft. to 28300 ft.		-	-	0.80
	28300 ft. to 31400 ft.		362	315	-
	31400 ft. to 41000 ft.		-	-	0.85
	V _{fe} (Flaps extended)	8°	265	230	-
		20°	265	230	-
		30°	226	196	-
		45°	220	191	-
	V _a (maneuvering)				

(See AFM for variation of V_a with altitude and aircraft weight).

 $V_{1o}\left(Landing\;Gear\;Operation\right)$

Extending	288	250	-
Retracting	230	200	-
V _{1e} (Landing Gear Extended)	288	250	-

C.G. Range Refer to AFM (CSP A-012) for detail CG limits.

Datum Fuselage station 0, located 375 inches forward of weighing datum jig point.

Mean Aerodynamic Chord 99.43 inches (MAC leading edge at fuselage sta. 494.793) (MAC)

Leveling Means Target plate and plumb bob bracket within rear fuselage, at fuselage station 718.75.

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Maximum Weights	Ramp Takeoff Landing Zero Fuel Minimum flight weight NOTE: The maximum ta performance con					lb. 53250 53000 47000 44000 30000 Further limited do	<u>lb.</u> 53250 53000 47000 39500 30000 ue to
Minimum Crew Maximum Occupants	Two (Pilot and Co-pilot) Series 100 - Fifty-five (55 Series 440 - Forty-Nine (42 CL-600-2B19 Green Airce Refer to Note 5.	49) (including	44 passeng				
Fuel Capacity (usable)	2 main tanks (each) Center tank Total * Pressure refueling (base	70 7 21	Load 6. Gal. 00.0 35.0 135.0 125.0	* Imp. Gal. 582.8 612.0 1669.6	<u>Weigh</u> <u>Kg.</u> 2159 2267 6585	<u>lb.</u> 4760 4998 14518	
Oil Capacity	2 Engines (each) Total <u>Usable</u> 2 Engines (each) Total	1 3 1	Load 1.70 3.40 1.38 2.76	1 Imp. Gal. 1.42 2.84 1.14 2.29	<u>Weig</u> <u>Kg.</u> 5.94 11.88 4.80 9.60	ht 1b. 13.09 26.18 10.59 21.18	
Maximum Operating Altitude	Takeoff and landing: En route:		10000 ft. 41000 ft.				
Control Surface Movements	1						n I
Serial Numbers Eligible	7001 and subsequent						
Service Information	Service Bulletins, structure document is Transport Ca	nada approve	d or Transp	ort Canada appı	roved through t	the Manufacture	rs Design

<u>V - Model CL-600-2C10 (Transport Category), Approved February 16, 2001, by the FAA and December 22, 2000 by Transport Canada.</u>

Engines Two General Electric CF-34-8C1, or

Two General Electric CF-34-8C5B1

pertain to the type design only.

Engines may be intermixed in accordance with AFM as listed in Approved publications

Approval Representative are accepted by the FAA and are considered FAA approved. These approvals

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Fuel	Type				pecific		GTG (TTI		
	T. 4 A	Canada	U.S.A.	<u>U.K.</u>	<u> -</u>	<u>China</u>	CIS/Ukraine	<u>NATO</u>	
	Jet A	CGSB-3.23	ASTM D1655	-		-	-	-	
	Jet A-1	CGSB-3.23	ASTM	DEF ST		GB6537-2006	TS-1* or RT	F-35	
	G 1 TD 5	GGGD 2 24	D1655	91-9		No. 3 Jet		T 44	
	Grade JP-5	CGSB-3.24	MIL-DTL- 5624	DEF ST 91-80		-	-	F-44	
	Grade JP-8	CGSB-3.24	MIL-DTL- 83133	DEF ST 91-8'		-	-	F-34	
	*Refer to appropr	riate AFM listed				on when using	TS-1.		
Oil	Engine, APU and MIL-L-7808 (Type * Mixing of different	e I) or MIL-L-2			TROL 4	4000. *			
Engine Limits	Refer to Limits Ta	able in the AFM	I (CSP B-012)					
Oil Temperature						<u>°C</u>	<u>°F</u>		
	Maximum Permis	sible (15 minut	es Maximum))		+163	325		
	Maximum Contin	uous				+155	311		
	Minimum for Star	rting				-40	-40		
Oll D	M : TD :	. / 6 11		156 : (16					
Oil Pressure	Maximum Transic Maximum Contin		tart)	45-116 psi		at idle, 10 mini	ites maximum)*		
	Take-off Power	luous		45-116 psi					
	Steady State Idle			25 psi min					
		* Engine must remain at idle until oil pressure returns to normal operating range.							
	C		1			1 0 0			
APU	ALLIED SIGNAL	L RE220 (RJ)							
APU Limits	Maximum RPM			106%					
	Maximum EGT:			<u>°C</u>		<u>°F</u>			
	Starting			692-1038	3 1274	l-1900*			
	Running - Ground	d		789		452			
	Running - Flight		-	806		482			
		* Dependent upon altitude and temperature. Refer to AFM (CSP B-012) ** Not to be exceeded under any operating condition.							
	** Not to be exce *** Refer to AFM			idition.					
Airspeed Limits (CAS)	V _{mo} and M _{mo} (r	naximum opera	ting)	<u>m.p.h.</u>	Knot				
	Sea Level to 8000			380	330				
	8000 ft. to 25400			386	335				
	25400 ft. to 2830			-	-	0.80			
	28300 ft. to 3140			362	315				
	31400 ft. to 4100 V _{fe} (Flaps extend		1°	265	230	0.85			
	v fe (Maps extend	ieu)							
			8°	265	230				
			20° 30°	265 213	230 185				
			45°	196	170				
	V _a (maneuvering))	.5	170	170	-			
	(See AFM for var		th altitude and	d aircraft we	eight).				
	V ₁₀ (Landing Ge				J ./.				
		Extendin	g	253	220	-			
		Retractin	-	230	200	-			
	V _{1e} (Landing Ge	ar Extended)		253	220	-			

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C.G. Range Refer to AFM (CSP B-012) for detail CG limits.

Datum Fuselage station 0, located 144.0 inches forward of aircraft nose.

(MAC)

Mean Aerodynamic Chord 133.185 inches (MAC leading edge at fuselage sta. 743.1)

Leveling Means Target plate and plumb bob bracket within rear fuselage, at fuselage station 1145.75 Maximum Weights

	Type Spec.	Option
	<u>lb.</u>	<u>lb.</u>
Ramp	73000	75250
Takeoff	72750	75000
Landing	67000	67000
Zero Fuel	62300	62300
Minimum flight weight	42000	42000

NOTE: The maximum take-off weight and/or maximum landing weight may be further limited due to performance considerations. Refer to Airplane Flight Manual for aircraft eligibility.

Minimum Crew Two (Pilot and Co-pilot)

Maximum Occupants**

Series 700 – 68 or less passengers

Series 701 – 70 passengers Series 702 – 78 passengers

Plus 5 crew-members (Pilot, Copilot, Observer forward and Aft Flight attendants)

** For any CL-600-2C10, the maximum passenger capacity may be further limited by the Equivalent Safety

Waight

Finding against FAR 25.801 and 25.813 (see Note 13).

Fuel	Car	pacity	(usa	h	le)	
1 401	Cu	Ducity	(ubu	0	,	

	<u>Load*</u>		Wei	ight*
	U.S. Gal.	Imp. Gal.	Kg.	<u>lb.</u>
2 main tanks (each)	1110	924.1	3399	7493
Center tank	683	568.6	2091	4610
Total	2903	2416.7	8889	19596

See Note 1(b) for system fuel

Oil Capacity

With option TS670-79-201 - Engine Oil - No Remote Replenishment System

	<u>LC</u>	weight		
	U.S. Gal.	Imp. Gal.	<u>Kg.</u>	<u>lb.</u>
2 Engines (each)	2.6	2.2	9.65	21.2
Total	5.2	4.36	19.30	42.4

See Note 1(c) for system oil

With option CR670-79-201 – Engine Oil – Remote Replenishment System

	<u>L(</u>	<u> </u>	weight		
	U.S. Gal.	Imp. Gal.	Kg.	<u>lb.</u>	
2 Engines (each)	2.6	2.2	9.65	21.2	
Replenishment Tank	1.6	1.3	5.9	13.0	
Total	6.8	5.7	25.2	55.4	
See Note 1(c) for system oil					

Maximum Operating Altitude

8000ft (without Modsum 670T82357) Takeoff and landing: 9600ft (with Modsum 670T82357)

En route: 41000 ft.

Control Surface	Rudder		33° Left*	33° Right
Movements	Elevator		23.6° Up	18.4° Down
	Horizontal Stabilizer		2.0° LE Ûp	13.0° LE Down
	Aileron		25.1° Up	21.3° Down
	Flap –	Inboard	-	45.0° Down
		Outboard		41.6° Down

^{*} Pressure refueling (based on 0.809 kg/L) (6.75 lb./U.S. Gal.)

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48.0° Up Multi-Function Spoiler 44.9° Up Ground Spoiler

Slat 25.0° Down

Serial Numbers Eligible 10002 and subsequent

Service Bulletins, structural repair manuals, and aircraft flight manuals which contain a statement that the Service Information

document is Transport Canada approved or Transport Canada approved through the Manufacturers Design Approval Representative are accepted by the FAA and are considered FAA approved. These approvals

pertain to the type design only.

VI - Model CL-600-2D15 (Transport Category), Approved May 4, 2005, by the FAA and May 3, 2005 by Transport Canada.

Engines	Two General Electric CF34-8C5 or
---------	----------------------------------

optional CF34-8C5A1 TC No. E00063EN

Fuel	Type	Specifications					
		Canada	U.S.A.	U.K.	China	CIS/Ukraine	NATO
	Jet A	CGSB-3.23	ASTM	-	-	-	-
			D1655				
	Jet A-1	CGSB-3.23	ASTM	DEF STAN	GB6537-2006	TS-1* or RT	F-35
			D1655	91-91	No. 3 Jet		
	Grade JP-5	CGSB-3.24	MIL-DTL-	DEF STAN	-	-	F-44
			5624	91-86			
	Grade JP-8	CGSB-3.24	MIL-DTL-	DEF STAN	-	-	F-34
			83133	91-87			

^{*}Refer to appropriate AFM listed in Approved Publication section when using TS-1.

Oil Engine, APU and IDG:

MIL-L-7808 (Type I) or MIL-L-23699 (Type II) or CASTROL 4000. *

Engine Limits Refer to Limits Table in the AFM (CSP C-012)

Oil Temperature		<u>°C</u>	<u>°F</u>
	Maximum Permissible (15 minutes Maximum)	+163	325
	Maximum Continuous	+155	311
	Minimum for Starting	-40	-40

Oil Pressure Maximum Transient (after cold start) 182 psi (95 psi after 10 minutes)

Maximum Continuous 45-95 psi Take-off Power 45-95 psi Steady State Idle 25 psi minimum

APU ALLIED SIGNAL RE220 (RJ)

APU Limits Maximum RPM 106%

> Maximum EGT: 692-1038 1274-1900* Starting 789 1452 Running - Ground Running - Flight 806 1482 * Dependent upon altitude and temperature. Refer to AFM (CSP C-012)

^{***} Refer to AFM for detail limitations

Airspeed Limits (CAS)	V_{mo} and M_{mo} (maximum operating)	<u>m.p.h.</u>	Knots	Mach
	Sea Level to 8000 ft.	380	330	_

8000 ft. to 25400 ft. 386 335 25400 ft. to 28300 ft. 0.80

^{*} Mixing of different types of oils is prohibited.

^{*} Engine must remain at idle until oil pressure returns to normal operating range.

^{**} Not to be exceeded under any operating condition.

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	28300 ft. to 31400 ft. 31400 ft. to 34000 ft. 34000 ft. to 41000 ft.		362 - -	-	0.85 0.84	
	V _{fe} (Flaps extended)	1°	265	230	-	
		8° 20°	265 253	220	-	
		30°	213		-	
	T 7 (45°	196	5 170	-	
	V _a (maneuvering)					
	(See AFM for variation of	(See AFM for variation of V _a with altitude and aircraft weight).				
	V ₁₀ (Landing Gear Oper	ration)				
	Е	xtending	253	220	-	
		etracting	230	200	-	
	V _{1e} (Landing Gear Exte	nded)	253	220	-	
C.G. Range	Refer to AFM (CSP C-0)	12) for detail Co	G limits.			
Datum	Fuselage station 0, locate	d 144.0 inches	forward of air	craft nose.		
Mean Aerodynamic Chord (MAC)	133.185 inches (MAC le	ading edge at fu	iselage sta. 83	3.1 inches)		
Leveling Means	Target plate and plumb b	ob bracket with	in rear fuselag	ge, at fuselag	e station 1146.75	
Maximum Weights		Type Spec. <u>lb.</u>	Option <u>lb.</u>	Option <u>lb.</u>		
	Ramp	80750	82750	85000		
	Takeoff	80500	82500	84500		
	Landing	73500	73500	75100		
	Zero Fuel	70000	70000	70750		
	Minimum flight weight	45000	45000	45000		

NOTE: The maximum take-off weight and/or maximum landing weight may be further limited due to performance considerations. Refer to Airplane Flight Manual for aircraft eligibility.

Minimum Crew Two (Pilot and Co-pilot)

Maximum Occupants 75 or less passengers

Plus 5 crew-members (Pilot, Copilot, Observer forward and Aft Flight attendants)

	riuse ere w memoers (riist, esp	, Jan 19 19 19 19 19 19 19 19 19 19 19 19 19		ingini untorraum	143)
Fuel Capacity (usable)		Lo	ad*	Weight*	
		U.S. Gal.	Imp. Gal.	Kg.	<u>lb.</u>
	2 main tanks (each)	1110	924.1	3398	7492
	Center tank	683	568.6	2091	4610
	Total	2903	2416.7	8888	19595
	See Note 1(b) for system fuel				
	* Pressure refueling (based on 0.	.809 kg/L) (6.75	ib./U.S. Gal.)		
Oil Capacity	With option TS670-79-201 – En	igine Oil – No R	Remote Replenish	ıment System	
		La	<u>oad</u>	We	eight
		U.S. Gal.	Imp. Gal.	Kg.	lb.

	Lo	<u>oad</u>	<u>Weight</u>		
	U.S. Gal.	Imp. Gal.	Kg.	<u>lb.</u>	
2 Engines (each)	2.6	2.2	9.65	21.2	
Total	5.2	4.36	19.3	42.4	
C NT. (1(.) C (

See Note 1(c) for system oil

With option CR670-79-201 – Engine Oil – Remote Replenishment System

	Lo	<u>Weight</u>		
	U.S. Gal.	Imp. Gal.	Kg.	<u>lb.</u>
2 Engines (each)	2.6	2.2	9.65	21.2
Replenishment Tank	1.6	1.3	5.9	13.0
Total	6.8	5.7	25.2	55.4

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See Note 1(c) for system oil

Maximum Operating Altitude

Takeoff and landing: 8000ft (without Modsum 670T82357) 9600ft (with Modsum 670T82357)

En route: 41000 ft.

Control Surface Movements Rudder 33° Left 33° Right Elevator 23.6° Up 18.4° Down Horizontal Stabilizer 2.0° LE Up 13° LE Down Aileron 25.1° Up 21.3° Down - Inboard 45.0 ° Down Flap Outboard 41.6° Down 48.0° Up Multi-Function Spoiler

Multi-Function Spoiler 48.0° Up Ground Spoiler 44.9° Up

Slat 25.0° Down

Serial Numbers Eligible 15001 and subsequent

Service Information Service Bulletins, structural repair manuals, and aircraft flight manuals which contain a statement that the

document is Transport Canada approved or Transport Canada approved through the Manufacturers Design Approval Representative are accepted by the FAA and are considered FAA approved. These approvals

pertain to the type design only.

VII – Model CL-600-2D24 (Transport Category), Approved October 25,-2002, by the FAA and September 9, 2002 by Transport Canada.

Engines	Two General	Electric	CF34-8C5 or

optional CF34-8C5A1 TC No. E00063EN

Fuel	uel Type			Specif	ications
		Canada	<u>U.S.A.</u>	<u>U.K.</u>	<u>China</u>
	Jet A	CGSB-3.23	ASTM	-	-

Jet A	CGSB-3.23	ASTM	-	-	-	-
		D1655				
Jet A-1	CGSB-3.23	ASTM	DEF STAN	GB6537-2006	TS-1* or RT	F-35
		D1655	91-91	No. 3 Jet		
Grade JP-5	CGSB-3.24	MIL-DTL-	DEF STAN	-	-	F-44
		5624	91-86			
Grade JP-8	CGSB-3.24	MIL-DTL-	DEF STAN	-	-	F-34
		83133	91-87			

CIS/Ukraine

NATO

Oil Engine, APU and IDG:

MIL-L-7808 (Type I) or MIL-L-23699 (Type II) or CASTROL 4000. *

* Mixing of different types of oils is prohibited.

Engine Limits Refer to Limits Table in the AFM (CSP C-012)

Oil Temperature		<u>°C</u>	°F
	Maximum Permissible (15 minutes Maximum)	+163	325
	Maximum Continuous	+155	311
	Minimum for Starting	-40	-40

Oil Pressure Maximum Transient (after cold start) 182 psi (95 psi after 10 minutes)

Maximum Continuous45-95 psiTake-off Power45-95 psiSteady State Idle25 psi minimum

^{*}Refer to appropriate AFM listed in Approved Publication section when using TS-1.

^{*} Engine must remain at idle until oil pressure returns to normal operating range.

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APU ALLIED SIGNAL RE220 (RJ)

APU Limits	Maximum RPM	106%
------------	-------------	------

Maximum EGT: Starting Running - Ground* 806 Running - Flight* 1482

^{***} Refer to AFM for detail limitations

Airspeed Limits (CAS)	V_{mo} and M_{mo} (maximum operating)		<u>m.p.h.</u>	Knots	Mach
	Sea Level to 8000 ft.		380	330	-
	8000 ft. to 25400 ft.		386	335	-
	25400 ft. to 28300 ft.		-	-	0.80
	28300 ft. to 31400 ft.		362	315	-
	31400 ft. to 34000 ft.		-	-	0.85
	34000 ft. to 41000 ft.		-	-	0.85
	34000 ft. to 41000 ft.		-	-	0.84*
	V _{fe} (Flaps extended)	1°	265	230	-

265 230 20° 220 253 30° 213 185 45° 170

(See AFM for variation of Va with altitude and aircraft weight).

V₁₀ (Landing Gear Operation)

Extending	253	220	-
Retracting	230	200	-
V _{1e} (Landing Gear Extended)	253	220	-

C.G. Range Refer to AFM (CSP C-012) for detail CG limits.

Datum Fuselage station 0, located 144.0 inches forward of aircraft nose.

(MAC)

Mean Aerodynamic Chord 133.185 inches (MAC leading edge at fuselage sta. 833.1 inches)

Target plate and plumb bob bracket within rear fuselage, at fuselage station 1146.75 Leveling Means

Maximum Weights		Type Spec.	Option	Option
_		<u>lb.</u>	<u>lb.</u>	<u>lb.</u>
	Ramp	80750	82750	85000
	Takeoff	80500	82500	84500
	Landing	73500	73500	75100
	Zero Fuel	70000	70000	70750
	Minimum flight weight	45000	45000	45000

NOTE: The maximum take-off weight and/or maximum landing weight may be further limited due to performance considerations. Refer to Airplane Flight Manual for aircraft eligibility.

Minimum Crew Two (Pilot and Co-pilot)

Maximum Occupants 90 or less passengers

Plus 5 crew-members (Pilot, Copilot, Observer forward and Aft Flight attendants)

^{*} Dependent upon altitude and temperature. Refer to AFM (CSP C-012)

^{**} Not to be exceeded under any operating condition.

V_a (maneuvering)

^{*}with the incorporation of M/S 690T002727 - Introduction of new winglet

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Fuel Capacity (usable)			ad*	Weig	
	2 main tanks (each)	<u>U.S. Gal.</u> 1110	<u>Imp. Gal.</u> 924.1	<u>Kg.</u> 3398	<u>lb.</u> 7492
	Center tank	683	568.6	2091	4610
	Total	2903	2416.7	8888	19595
	See Note 1(b) for system fuel				
	* Pressure refueling (based on 0.8	309 kg/L) (6.75	lb./U.S. Gal.)		
Oil Capacity	With option TS670-79-201 – Eng				•
			oad James Cal	Wei:	
	2 Engines (each)	<u>U.S. Gal.</u> 2.6	<u>Imp. Gal.</u> 2.2	<u>Kg.</u> 9.65	<u>lb.</u> 21.2
	Total	5.2	4.36	19.3	42.4
	See Note 1(c) for system oil	3.2	4.50	17.5	72.7
	With option CR670-79-201 – Eng	gine Oil – Rem	ote Replenishmer	nt System	
			<u>oad</u>	Wei	
		U.S. Gal.	Imp. Gal.	Kg.	<u>lb.</u>
	2 Engines (each)	2.6	2.2	9.65	21.2
	Replenishment Tank Total	1.6 6.8	1.3 5.7	5.9 25.2	13.0 55.4
	See Note 1(c) for system oil	0.8	3.7	23.2	33.4
	see Note I(e) for system on				
Maximum Operating	Takeoff and landing:	8000ft	(without Modsun	n 670T82357)	
Altitude	<u> </u>	9600ft	(with Modsum 6	70T82357)	
	En route:	41000	ft.		
Control Surface	Rudder		33° Left		33° Right
Movements	Elevator		23.6° Up		18.4° Down
	Horizontal Stabilizer		2.0° LE Up		13° LE Down
	Aileron		25.1° Up		21.3° Down
	Flap – Inboard				45.0 ° Down
	- Outboar	d	40.00 11.		41.6° Down
	Multi-Function Spoiler		48.0° Up		
	Ground Spoiler Slat		44.9° Up		25.0° Down
	Stat				23.0 DOWN
Serial Numbers Eligible	15001 and subsequent				
Service Information	Service Bulletins, structural repair	r manuals, and	aircraft flight ma	nuals which co	ontain a statement that the
	document is Transport Canada ap	proved or Tran	sport Canada app	roved through	the Manufacturers Design
	Approval Representative are accept	pted by the FA	A and are conside	ered FAA appr	oved. These approvals
	pertain to the type design only.				

<u>VIII</u> – Model CL-600-2E25 (Transport Category), Approved December 17, 2010 by the FAA and November 1, 2010 by <u>Transport Canada.</u>

Engines Two General Electric CF34-8C5 or

optional CF34-8C5A1 optional CF34-8C5A2 TC No. E00063EN

Fuel	Type	Specifications					
		Canada	U.S.A.	<u>U.K.</u>	China	CIS/Ukraine	NATO
	Jet A	CGSB-3.23	ASTM	-	-	-	-
			D1655				
	Jet A-1	CGSB-3.23	ASTM	DEF STAN	GB6537-94	TS-1* or RT	F-35
			D1655	91-91	No. 3 Jet		
	Grade JP-5	CGSB-3.24	MIL-DTL-	DEF STAN	-	-	F-44
			5624	91-86			
	Grade JP-8	CGSB-3.24	MIL-DTL-	DEF STAN	-	-	F-34
			83133	91-87			

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*Refer to appropriate	AFM listed in Approved	d Publication section	n when using TS-1.

Oil Engine, APU and IDG:

MIL-L-7808 (Type I) or MIL-L-23699 (Type II) or CASTROL 4000. *

* Mixing of different types of oils is prohibited.

Refer to Limits Table in the AFM (CSP D-012) **Engine Limits**

Oil Temperature		<u>°C</u>	<u>°F</u>
	Maximum Permissible (15 minutes Maximum)	+163	325
	Maximum Continuous	+155	311
	Minimum for Starting	-40	-40

Oil Pressure Maximum Transient (after cold start) 182 psi (95 psi after 10 minutes)

Maximum Continuous 45-95 psi Take-off Power 45-95 psi Steady State Idle 25 psi minimum

* Engine must remain at idle until oil pressure returns to normal operating range.

APU ALLIED SIGNAL RE220 (RJ)

APU Limits Maximum RPM 106%

°C Maximum EGT: 692-1038 1274-1900 Starting 789 Running - Ground* 1452 Running - Flight* 806 1482

* Dependent upon altitude and temperature. Refer to AFM (CSP D-012)

^{***} Refer to AFM for detail limitations

Airspeed Limits (CAS)	V_{mo} and M_{mo} (maximum op	erating)	<u>m.p.h.</u>	Knots	Mach
	Sea Level to 8000 ft.		380	330	-
	8000 ft. to 25400 ft.		386	335	-
	25400 ft. to 28300 ft.		-	-	0.80
	28300 ft. to 31400 ft.		362	315	-
	31400 ft. to 41000 ft.		-	-	0.84
	V _{fe} (Flaps extended)	1°	265	230	-

8°	265	230	
20°	253	220	
30°	213	185	-
45°	196	170	

Va (maneuvering)

(See AFM for variation of Va with altitude and aircraft weight).

V₁₀ (Landing Gear Operation)

10			
Extending	253	220	-
Retracting	230	200	-
V _{1e} (Landing Gear Extended)	253	220	-

C.G. Range Refer to AFM (CSP D-012) for detail CG limits.

Datum Xarm 0, located 144.0 inches forward of aircraft nose

(MAC)

Mean Aerodynamic Chord 137.020 inches (MAC leading edge at Xarm 900.257 inches)

Leveling Means Target plate and plumb bob bracket within rear fuselage, at fuselage station 1146.75

^{**} Not to be exceeded under any operating condition.

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Maximum Weights Minimum Crew	Ramp Takeoff Landing Zero Fuel Minimum flight weight NOTE: The maximum ta performance cor Two (Pilot and Co-pilot)	siderations. Ro				
Maximum Occupants	110, including 6 crew me when fitted with an appro		1 Co-pilot,	1 observer and	3 Flight Atter	dants) (104 passengers
Fuel Capacity (usable)	2 main tanks (each) Center tank Total See Note 1(b) for system * Pressure refueling (base	12 7 29 fuel	113 110 936	(mp. Gal. 926.8 591.2 2444.7 (U.S. Gal.)	<u>Weigh</u> <u>Kg.</u> 3407 2174 8989	<u>lb.</u> 7513 4793 19818
Oil Capacity	With option TS670-79-2 2 Engines (each) Total See Note 1(c) for system With option CR670-79-2 2 Engines (each) Replenishment Tank Total See Note 1(c) for system	U.S 2 5 0il 01 – Engine Oi <u>U.S</u> 2 1	Load . Gal. I 2.6 5.2 il – Remote 1 Load	<u>(mp. Gal.</u> 2.2 4.36	Weigh <u>Kg.</u> 9.65 19.3	<u>lb.</u> 21.2 42.4
Maximum Operating Altitude	Takeoff and landing: En route:		10000 ft. 41000 ft.			
Control Surface Movements	1	Inboard Outboard	2	33° Left 23.6° Up 2.0° LE Up 24.1° Up 48.0° Up 44.0° Up		33° Right 18.4° Down 13.0° LE Down 20.3° Down 45.0° Down 34.0° Down
Serial Numbers Eligible Service Information	19013 and subsequent (see Service Bulletins, structure document is Transport Co	ral repair manu anada approved	or Transpor	rt Canada appro	oved through t	he Manufacturers Design
	Approval Representative pertain to the type design		y the FAA ar	nd are consider	ed FAA appro	ved. These approvals

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Data Pertinent to all Models

Approved Publications

Model CL-600-1A11 (600)

- (a) Airplane Flight Manual, Canadair Publication RAG-600-101, Issue 2 (PSP 600 (U.S.) FAA, and PSP 600-1 (U.S.) for the appropriate configuration, (See NOTE 1) and approved revisions.
- (b) Drawing List, Canadair Publication RAL-600-105, and later approved revisions.

Model CL-600-2A12 (601)

- (a) Airplane Flight Manual, Canadair Publication PSP 601-1A, PSP 601-1A-1, PSP 601-1B and PSP 601-1B-1 for the appropriate weight configuration, (See NOTE 1) and approved revisions.
- (b) Drawing List, Canadair Publication RAL-601-105, and later approved revisions.

Model CL-600-2B16 (601-3A, 601-3R, & 604 Variants (from S/N 5301 to 5699))

- (a) Airplane Flight Manual, Canadair Publication PSP 601A-1, PSP 601A-1-1 and PSP 604-1 for the appropriate weight configuration, (See NOTE 1) and approved revisions.
- (b) Drawing List, Canadair Publication RAL-601A-105 (3A & 3R Variants) and RAL-604-0001 (604 Variant), and later approved revisions.

Model CL-600-2B16 (604 Variant (from S/N 5701 to 5990))

- (a) Airplane Flight Manual, Canadair Publication PSP 605-1 for the appropriate weight configuration, (See NOTE 1&9) and approved revisions.
- (b) Drawing List, Canadair Publication RAL-604-0001 (604 Variant), and later approved revisions.

Model CL-600-2B16 (604 Variant (from S/N 6050 & Subs))

- (a) Airplane Flight Manual, Canadair Publication PSP 650-1 for the appropriate weight configuration, (See NOTE 1&14) and approved revisions.
- (b) Drawing List, Canadair Publication RAL-604-0001 (604 Variant), and later approved revisions.

Model CL-600-2B19

- (a) Airplane Flight Manual, Canadair Publication CSP A-012 for the appropriate weight configuration and approved revisions.
- (b) Maintenance Review Board (MRB) Report and subsequent revisions as contained in the Maintenance Requirements Manual (MRM), Canadair Publication CSP A-053, Part 2 and subsequent approved revisions.
- (c) Structural Repair Manual (SRM), Canadair Publication CSP A-008 and subsequent approved issues.
- (d) Certification Maintenance Tasks, Canadair Regional Jet, Model CL-600-2B19 Engineering Report No. RBR-601R-167, as contained in Part 2 to the Maintenance Requirements Manual (MRM), Canadair Publication CSP A-053, and subsequent approved revisions.

Model CL-600-2C10

- (a) Airplane Flight Manual, Canadair Publication CSP B-012 for the appropriate weight configuration and approved revisions.
- (b) Maintenance Review Board (MRB) Report and subsequent revisions as contained in the Maintenance Requirements Manual (MRM), Canadair Publication CSP B-053, Part I and subsequent approved revisions.
- (c) Structural Repair Manual (SRM), Canadair Publication CSP B-008 and subsequent approved issues.
- (d) Certification Maintenance Tasks, as contained in the Maintenance Requirements Manual (MRM), Canadair Publication CSP B-053, Part II and subsequent approved revisions.

Model CL-600-2D15/DC-600-2D24

- (a) Airplane Flight Manual, Canadair Publication CSP C-012 for the appropriate weight configuration and approved revisions.
- (b) Maintenance Review Board (MRB) Report and subsequent revisions as contained in the Maintenance Requirements Manual (MRM), Canadair Publication CSP B-053, Part I and subsequent approved revisions.
- (c) Structural Repair Manual (SRM), Canadair Publication CSP B-008 and subsequent approved issues.

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(d) Certification Maintenance Tasks, as contained in the Maintenance Requirements Manual (MRM), Canadair Publication CSP B-053, Part II and subsequent approved revisions.

Model CL-600-2E25

- (a) Airplane Flight Manual, Canadair Publication CSP D-012 for the appropriate weight configuration and approved revisions.
- (b) Maintenance Review Board (MRB) Report and subsequent revisions as contained in the Maintenance Requirements Manual (MRM), Canadair Publication CSP B-053, Part I and subsequent approved revisions.
- (c) Structural Repair Manual (SRM), Canadair Publication CSP D-008 and subsequent approved issues.
- (d) Certification Maintenance Tasks, as contained in the Maintenance Requirements Manual (MRM), Canadair Publication CSP B-053, Part II and subsequent approved revisions.

Import Eligibility

A U.S. Airworthiness Certificate may be issued on the basis of the Canadian Department of Transport "Certificate of Airworthiness for Export" signed by the Minister of Transport. This form must contain the following statement:

(a) Model CL-600-1A11 (600)

"This certificates that the aircraft described below has been manufactured in conformity with data forming the basis for the DOT Aircraft Type Approval No. A-131, as modified by Drawing List, Canadair Publication RAL-600-105, and later approved revisions (FAA Type Certificate No. A21EA)".

(b) Model CL-600-2A12 (601)

"This certifies that the aircraft described below has been manufactured in conformity with data forming the basis for the DOT Aircraft Type Approval No. A-131 as modified by Drawing List, Canadair Publication RAL-601-105, and later approved revisions (FAA Type Certificate No. A21EA)".

(c) Model CL-600-2B16 (601-3A & 3R Variants)

"This certifies that the aircraft described below has been manufactured in conformity with data forming the basis for the DOT Aircraft Type Approval No. A-131 as modified by Drawing List, Canadair Publication RAL-601A-105 and later approved revisions (FAA Type Certificate No. A21EA)".

Model CL-600-2B16 (604 Variant)

"This certifies that the aircraft described below has been manufactured in conformity with data forming the basis for the DOT Aircraft Type Approval No. A-131 as modified by Drawing List, Canadair Publication RAL-604-0001 and later approved revisions (FAA Type Certificate No. A21EA)".

(d) Model CL-600-2B19

"This certifies that the aircraft described below has been manufactured in conformity with data forming the basis for the Transport Canada Type Approval No. A-131 and includes the minimum type design defined in document RAZ-601R-111 as being required to comply with the basis for the FAA Type Certificate No. A21EA".

The approved type design appropriate to the "as delivered" configuration of a particular CL-600-2B19 airplane is defined in the document RAL-601R-XXXX. (XXXX represents the Serial Number for the airplane concerned).

Model CL-600-2B19 Green Configuration

For CL-600-2B19 Green Configuration and associated modifications refer to NOTE 4.

(e) Model CL-600-2C10

"This certifies that the aircraft described below has been manufactured in conformity with data forming the basis for the Transport Canada Type Approval No. A-131 and includes the minimum type design defined in document RAL-670-0001 and RAL-670-0002 as being required to comply with the basis for the FAA Type Certificate No. A21EA"

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The approved type design appropriate to the "as delivered" configuration of a particular CL-600-2C10 airplane is defined in the document RAL-670-XXXX for S/N 10002 to 10132 and RAL-BA670-XXXX for S/N 10133 and subsequent. (XXXX represents the Serial Number for the airplane concerned).

(f) Model CL-600-2D15/CL-600-2D24

"This certifies that the aircraft described below has been manufactured in conformity with data forming the basis for the Transport Canada Type Approval No. A-131 and includes the minimum type design defined in document RAZ-BA690-129 as being required to comply with the basis for the FAA Type Certificate No. A21EA".

The approved type design appropriate to the "as delivered" configuration of a particular CL-600-2D15/CL-600-2D24 airplane is defined in the document RAL-690-XXXX for S/N 15001 to 15013 and RAL-BA690-XXXX for S/N 15014 and subsequent. (XXXX represents the Serial Number for the airplane concerned).

(g) Model CL-600-2E25

"This certifies that the aircraft described below has been manufactured in conformity with data forming the basis for the Transport Canada Type Approval No. A-131 and includes the minimum type design defined in document RAZ-BA698-009 as being required to comply with the basis for the FAA Type Certificate No. A21EA".

The approved type design appropriate to the "as delivered" configuration of a particular CL-600-2E25 airplane is defined in the document RAL-BA698-19XXX. (19XXX represents the Serial Number for the airplane concerned).

Certification Basis

Model CL-600-1A11 (600), CL-600-2A12 (601), and CL-600-2B16 (601-3A & 3R Variants)

FAR Part 25 dated February 1, 1965, including Amendments 25-1 through 25-37, plus

FARs 25.675(a), 25.685(a), 25.733(c), 25.775(e), 25.787(c), 25.815, 25.841(b), 25.951(a), 25.979(d) and (e), 25.1041, 25.1143(e), 25.1303(a), 25.1322, 25.1385(c), 25.1557(b), 25.1583(a), of Amendment 25-38;

FARs 25.901(b) and (c), 25.903(c) and (e), 25.933(a), 25.943, 25.959, 25.1091(a) and (d), 25.1145(c), 25.1199(b) and (c), 25.1207, 25.1549, 25.1585(a)(9) of Amendment 25-40; and

FAR 25.1309 of Amendment 25-41;

FAR 25.1353(c) of Amendment 25-42;

FAR's 25.571 and 25.629(d)(4) (v) of Amendment 25-45;

FARs 25.351 and 25.603 of Amendment 25-46.

Model CL-600-2B16 (604 Variant)

FAR Part 25 dated February 1, 1965, including Amendments 25-1 through 25-78 with the following exceptions:

FAR Part 25 at Amendments 25-1 through Amendment 25-37 for paragraphs: 109, 149, 365, 561, 625, 701, 772, 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 installations and Amendment 25-78 for new installations for paragraphs: 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 paragraph 25.973;

FAR Part 25 at Amendment 25-37 for paragraph 25.109 (see note 7);

FAR Part 25 at Amendment 25-44 for paragraph 25.1413;

FAR Part 25 at Amendment 25-54 for paragraph 851;

FAR Part 25 at Amendment 25-80 for paragraph 1316.

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

Model CL-600-2B19

FAR Part 25 dated February 1, 1965, including Amendments 25-1 through 25-62 with the following exceptions:

FAR 25.109 at Amendment 25-41,

FAR 25.832 not included.

FAR 25.1401 at Amendment 25-40,

FAR 25.1438 not included and

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FAR 25.783(f) at Amendment 25-23 for the cargo compartment door, the main avionics compartment door and the service/emergency door.

FAR 25.773(b)(2) and 25.785(h) at Amendment 25-72.

Model CL-600-2C10

FAR Part 25 dated February 1, 1965, including Amendments 25-1 through 25-86 with the following exceptions;

FAR 25.783(f) at Amendment 25-23 for the cargo compartment door, the main avionics compartment door and the service/emergency door.

FAR 25.571 at Amendment 25-96

FAR 25.493 at Amendment 25-97and

FAR 25.975 at Amendment 25-143.

Model CL-600-2D15/CL-600-2D24

14 CFR Part 25, including Amendments 25-1 through 25-86, Amendments 25-88 through Amendments 25-90, and Amendments 25-92 through 25-98 with the following exceptions:

(a) FAR 25.783(f) at Amendment 25-23 shall replace FAR 25.783(f) at Amendment 25-88 for the Aft Cargo Compartment and Main Avionics Bay Doors only (common doors with CL- 600-2C10 (CRJ-700):

(b) FAR 25.807(d)(6) at Amendment 25-72 shall replace FAR 25.807(h) at Amendment 25-94;

(c) FAR 25.365, FAR 25.831(a) and FAR 25.1447(c) at Amendment 25-87.

(d) FAR 25.975 at Amendment 25-143.

FAR 25 Amendment 25-91 is not included in Type Certification Basis.

Model CL-600-2E25

14 CFR Part 25 including amendments 25-1 through 25-119 with the following exceptions:

14 CFR Part 25.415 (rudder system only) at Amdt. 25-72;

14 CFR Parts 25.772(c) (not applicable);,

14 CFR Part 25.783(f) at Amdt. 25-23:

14 CFR Part 25.809 at Amdt. 25-72;

14 CFR Part 25.831(g) at Amdt. 25-41;

14 CFR Part 25.841(a) at Amdt. 25-38;

14 CFR Part 25.1329 at Amdt 25-46;

14 CFR Part 25.1335 at Amdt 25-41;

and 14 CFR Part 26.33 in lieu of 14 CFR Part 25.981(c) at Amdt 25-102;

Plus the following requirements: 14 CFR Part 25, Appendix J at Amdt. 25-117; 14 CFR Part 25.1317 at Amdt. 25-122 for the Rudder Control System; 14 CFR Part 25.812(h) at Amdt. 25-128;

Additional FAA Requirements

(a) Model CL-600-1A11 (600)

- (1) FAR Part 36 dated December 1, 1969, as amended through Amendment 36-9 inclusive.
- (2) SFAR 27 dated February 1, 1974, as amended through Amendment SFAR 27-2.
- (3) Special Conditions:
 - No. 25-94-EA-12 dated March 26, 1980, (FAA Docket No. 16921) and Amendment No. 1 dated September 11, 1981.
 - No. 25-666-SC Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 9, 2017. See the applicability section of this special condition for more information on which design change must meet it.

Date of application for Type Certificate August 3, 1976.

Type Certificate A21EA issued November 7, 1980.

(b) Model CL-600-2A12 (601)

- (1) FAR Part 36 dated December 1, 1969, as amended through Amendments 36-9 inclusive.
- (2) SFAR 27 dated February 1, 1974, as amended through Amendment SFAR 27-2.
- (3) Special Conditions:
 - No. 25-ANM-1 dated March 8, 1983.
 - No. 25-666-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 9, 2017. See the applicability section of this special condition for more information on which design change must meet it.

Date of application for amendment to Type Certificate May 1, 1981.

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Type Certificate A21EA amended March 11, 1983.

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

- (1) FAR Part 36 dated December 1, 1969, as amended through Amendments 36-9 inclusive.
- (2) SFAR 27 dated February 1, 1974, as amended through Amendment SFAR 27-2.
- (3) Special Conditions:
 - No. 25-ANM-1 dated March 8, 1983.
 - No. 25-666-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 9, 2017. See the applicability section of this special condition for more information on which design change must meet it.

Date of application for amendment to Type Certificate March 3, 1986.

Type Certificate A21EA amended April 30, 1987.

(d) Model CL-600-2B16 (604 Variant)

- FAR Part 36 dated December 1, 1969, as amended through Amendments 36-20 inclusive.
- (2) FAR Part 34 dated August 25, 1990 as amended through Amendment 34-1.
- (3) Special Conditions:
 - No. 25-ANM-109 dated October 31, 1995 (HIRF).
 - No. 25-666-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 9, 2017. See the applicability section of this special condition for more information on which design change must meet it.

Date of application for Change to Type Design June 14, 1993.

Change to Type Design approved November 2, 1995.

(e) Model CL-600-2B19

- FAR Part 36 dated December 1, 1969, as amended through Amendments 36-18 inclusive.
- (2) Applicable portions of FAR 34 (previously codified as SFAR 27).
- (3) Special Conditions:
 - High Intensity Radiated Fields (HIRF), No. 25-ANM-61 dated July 22, 1992
 - Passenger seats with non-traditional, large, non-metallic panels No. 25-384-SC dated August 12, 2009
 - No. 25-666-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 9, 2017. See the applicability section of this special condition for more information on which design change must meet it.

Date of application for amendment to Type Certificate May 26, 1988.

Type Certificate A21EA amended January 21, 1993.

(f) Model CL-600-2C10

- (1) FAR Part 36 dated December 1, 1969, as amended through Amendments 36-22 inclusive.
- (2) Applicable portions of FAR 34
- (3) Special Conditions:
 - High Intensity Radiated Fields, No. 25-ANM-109 dated October 31, 1995
 - Go-around performance credit for use of automatic power reserve (APR)
 No. 25-167-SC dated October 24, 2000.
 - Passenger seats with non-traditional, large, non-metallic panels No. 25-384-SC dated August 12, 2009
 - No. 25-666-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 9, 2017. See the applicability section of this special condition for more information on which design change must meet it.

Date of application for amendment to Type Certificate May 6, 1996 Type Certificate A21EA amended February 16, 2001.

(g) Model CL-600-2D15/CL-600-2D24

- (1a) 14 CFR Part 36, effective September 10, 1990, and including all amendments effective on the date of Type Certification.
- (1b) 14 CFR Part 36, effective August 7, 2002 (Amendment 36-24) for CL-600-2D24 incorporating conical nozzle with CF-34-8C5 and CF-34-8C5A1 engines.

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- (2) 14 CFR Part 34, effective September 10, 1990, and including all amendments effective on the date of Type Certification.
- (3) Special Conditions:
 - High Intensity Radiated Fields, No. 25-ANM-109 dated October 31, 1995
 - Go-around performance credit for use of automatic power reserve (APR)
 No. 25-167-SC dated October 24, 2000 (same as CL-600-2C10)
 - Sudden Engine Stoppage, No. 25-217-SC dated October 04, 2002
 - Passenger seats with non-traditional, large, non-metallic panels No. 25-384-SC dated August 12, 2009
 - No. 25-666-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 9, 2017. See the applicability section of this special condition for more information on which design change must meet it.
- (4) Exemption:

Exemption No. 7447 Hydraulic Systems Testing for FAR 25.1435(b)(1)

Date of application for amendment to Type Certificate November 1, 1999.

Type Certificate A21EA amended October 31, 2002.

(h) Model CL-600-2E25

- 14 CFR Part 36 effective September 10, 1990, and including all amendments effective on the date of Type Certification.
- (2) 14 CFR Part 34, effective September 10, 1990, and including all amendments effective on the date of Type Certification.
- (3) Special Conditions:
 - Interaction of Systems and Structures (for CBW Rudder System), 25-412-SC, dated November 5, 2010
 - Operation Without Normal Electrical Power, 25-413-SC, dated November 5, 2010
 - Limit Torque Loads for Sudden Engine Stoppage, 25-217-SC, dated October 4, 2002
 - Go-around performance credit for use of automatic power reserve (APR)
 25-167-SC, dated October 24, 2000 (same as CL-600-2C10 & CL-600-2D24)
 - Passenger seats with non-traditional, large, non-metallic panels, 25-409-SC dated July 27, 2010
 - High Intensity Radiated Fields, 25-ANM-109, dated October 31, 1995, for changes other than the rudder control system and the unchanged areas.
 - No. 25-666-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 9, 2017. See the applicability section of this special condition for more information on which design change must meet it.
- (4) Exemption:

Exemption No 10175, 14 CFR Part 25.981(a)(3) for Structural Lightning Protection Features. See NOTE 11

Date of application for amendment to Type Certificate Feb 23, 2007.

Type Certificate A21EA amended December 17, 2010.

Equivalent safety has been established for the following requirements:

- (a) CL-600-1A11 (600), CL-600-2A12 (601), and CL-600-2B16 (601-3A & 3R Variants).
 - (1) FAR 25.773(b)(2) DV Window
 - (2) 25.955(a)(4) Blocked Flow Meter Fuel Flow Requirements
 - (3) FAR 25.201 Stall Determination
- (b) <u>CL-600-2B16 (604 Variant)</u>
 - (1) FAR 25.955 (a)(4) Blocked Flow Meter Fuel Flow Requirements
 - (2) Several FAR's for the use of Reduced Minimum Operating Speed Factors
 - (3) FAR 25.125(a) Increased Flare Height, for Steep Approach Landing Ops. at London City

(c) CL-600-2B19

- (1) FAR 25.811(d)(2) Emergency Exit Marking Sign
- (2) FAR 25.813(c)(1) Access to Type III exit-seat cushion intrusion
- (3) Several FAR's for the use of 1-g Stall Speed (nonstructural items)
- (4) FAR 25.621 (c)(2) Overwing Emergency Exit Door Critical Castings, P/N 601R38685-1, (documented in Transport Airplane Directorate ELOS Memo TD3995NY-T-A-1)

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- (5) FAR 25.1441(c) Oxygen Quantity Indication of Passenger Lavatory Oxygen Dispensing Units, documented in Transport Airplane Directorate ELOS Memo AT07852NY-T-S-1 dated October 14, 2014.
- (6) FAR 25.1443(c) Minimum Mass Flow of Supplemental Oxygen Passenger Lavatory Oxygen Dispensing Units, documented in Transport Airplane Directorate ELOS Memo AT07852NY-T-S-2 dated October 14, 2014.

(d) <u>CL-600-1A11 (600)</u>, <u>CL-600-2A12 (601)</u>, and <u>CL-600-2B16 (601-3R & 3R Variants)</u>

- (1) Ditching provisions of FAR 25.801
- (2) Ice Protection of FAR 25.1419

(e) <u>CL-600-2C10</u>

- (1) FAR 25.103 and others Reduced Minimum Operating Speed Factors
- (2) FAR 25.107(e)(1)(iv) Vlof and Vmu
- (3) FAR 25.109 Rejected Takeoff and Landing Performance Criteria
- (4) FAR 25.811(d)(2) Main Door Exit Marking Sign
- (5) FAR 25.813(c)(2)(i) Emergency Exit Access documented in Transport Airplane Directorate ELOS Memo AT07658NY-T-C-1 dated April 3, 2014.
- (6) FAR 25.904 Performance Credit for Use of APR During Reduced Thrust Takeoff
- (7) FAR 25.933(a)(1)(ii) Thrust Reverser System
- (8) FAR 25 App. I 25.5(b)(4) Lack of On/Off Switch for Automatic Takeoff Thrust Control System (ATTCS)
- (9) FAR 25.841(b)(6) High Altitude Takeoff and Landing Operations documented in Transport Airplane Directorate ELOS Memo AT2587NY-T dated January 31, 2007.
- (10) FAR 25.841 (a) and (b)(6) High Elevation Airport Operations documented in Transport Airplane Directorate ELOS Memo TD6802NY-T-S-1 dated July 31, 2013.
- (11) FAR 25.1441(c) Oxygen Quantity Indication of Passenger Lavatory Oxygen Dispensing Units documented in Transport Airplane Directorate ELOS Memo AT07660NY-T-S-1 dated February 10, 2014.
- (12) FAR 25.1443(c) Minimum Mass Flow of Supplemental Oxygen Passenger Lavatory Oxygen Dispensing Units documented in Transport Airplane Directorate ELOS Memo AT07660NY-T-S-2 dated March 6, 2014.
- (13) FAR 25.807 and 25.813 Passenger Seating Configuration with Additional 2 Passengers Aft of Overwing Exits, documented in Transport Airplane Directorate ELOS Memo AT08045NY-T-C-1 dated June 24, 2015 (See Note 13).

(f) CL-600-2D15/CL-600-2D24

- FAR 25.103 and others Reduced Minimum Operating Speed Factors documented in Transport Airplane Directorate ELOS Memo AT2587NY-T-F-1 dated July 9, 2010.
- (2) FAR 25.811(d)(2) Main Door Exit Marking Sign documented in Transport Airplane Directorate ELOS Memo AT2587NY-T-SE-1 dated March 25, 2010.
- (3) FAR 25.813(c)(2)(i) Emergency Exit Access documented in Transport Airplane Directorate ELOS Memo AT07658NY-T-C-2 dated April 3, 2014.
- (4) FAR 25.904 Performance Credit for Use of APR During Reduced Thrust Takeoff documented in Transport Airplane Directorate ELOS Memo AT2587NY-T-P-1 dated July 6, 2010.
- (5) FAR 25.933(a)(1)(ii) Thrust Reverser System documented in Transport Airplane Directorate ELOS Memo AT2587NY-T-P-2 dated July 6, 2010.
- (6) FAR 25 App. I 25.5(b)(4) Lack of On/Off Switch for Automatic Takeoff Thrust Control System (ATTCS) documented in Transport Airplane Directorate ELOS Memo AT2587NY- T-P-5 dated July 6, 2010
- (7) FAR 25.841(b)(6) High Altitude Takeoff and Landing Operations documented in Transport Airplane Directorate ELOS Memo AT2587NY-T dated January 31, 2007.
- (8) FAR 25.841 (a) and (b)(6) High Elevation Airport Operations documented in Transport Airplane Directorate ELOS Memo TD6802NY-T-S-1 dated July 31, 2013.
- (9) FAR 25.1441(c) Oxygen Quantity Indication of Passenger Lavatory Oxygen Dispensing Units documented in Transport Airplane Directorate ELOS Memo AT07660NY-T-S-1 dated February 10, 2014.
- (10) FAR 25.1443(c) Minimum Mass Flow of Supplemental Oxygen Passenger Lavatory

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- Oxygen Dispensing Units documented in Transport Airplane Directorate ELOS Memo AT07660NY-T-S-2 dated March 6, 2014.
- (11) 14 CFR 25.811(g) and 25.812(b)(1) Symbolic Exit Signs documented in Transport Standards Branch ELOS Memo AT08649NY-T-CS-1 dated July 5, 2018. (Applicable to CL-600-2D24 only).

(g) CL-600-2E25

- FAR 25.107(e)(1) Take-off Speeds documented in Transport Airplane Directorate ELOS Memo AT5627NY-T-F-2 dated December 24, 2009.
- (2) FAR 25.811(d)(1)&(2) Emergency Exit Marking Sign and Locator documented in Transport Airplane Directorate ELOS Memo AT5627NY-T-C-4-1 dated September 18, 2009.
- (3) FAR 25.813(c)(2) Type III Emergency Exit Access documented in Transport Airplane Directorate ELOS Memo AT5627NY-T-C-4-2 dated September 18, 2009.
- (4) FAR 25.841(b)(6) Cabin Pressurization High Altitude Airfield Operations documented in Transport Airplane Directorate ELOS Memo AT5627NY-T-S-4 dated December 16, 2010.
- (5) FAR 25.933(a) Thrust Reverser System documented in Transport Airplane Directorate ELOS Memo AT5627NY-T-P-1 dated November 03, 2010.
- (6) FAR 25.5(b)(4) App. I Lack of On/Off Switch for Automatic Takeoff Thrust Control System (ATTCS) documented in Transport Airplane Directorate ELOS Memo AT2587NY- T-P-5 dated July 6, 2010.
- (7) FAR 25.904 App. I Performance credit for use of APR documented in Transport Airplane Directorate ELOS Memo AT2587NY-T-P-1 dated July 6, 2010
- (8) FAR 25.1441(c) Oxygen Quantity Indication of Passenger Lavatory Oxygen Dispensing Units documented in Transport Airplane Directorate ELOS Memo AT07660NY-T-S-1 dated February 10, 2014.
- (9) FAR 25.1443(c) Minimum Mass Flow of Supplemental Oxygen Passenger Lavatory Oxygen Dispensing Units documented in Transport Airplane Directorate ELOS Memo AT07660NY-T-S-2 dated March 6, 2014.

Compliance with the following optional requirements has been established for the CL- 600-2B16 (604 Variant):

- (1) Ditching provisions of FAR 2.801
- (2) Ice Protection of FAR 25.1419

Compliance with the following optional requirements has been established for the CL- 600-2B19, CL-600-2C10, CL-600-2D15/CL-600-2D24 and CL-600-2E25:

- (1) Ice Protection of FAR 25.1419
- (2) Ditching provisions of FAR 25.801 when the safety equipment requirements of FAR 25.1411 and the ditching equipment requirements of FAR 25.1415 are satisfied.

The basic equipment as prescribed in the applicable airworthiness requirements (See Certification Basis) must be installed in the aircraft for certification.

Equipment

Part 26 – Continued Airworthiness and Safety Improvements for Transport Category Airplanes

Model CL-600-1A11 (600), CL-600-2A12 (601), and CL-600-2B16 (601-3A & 3R Variants)

Based on § 21.101(g) for changes to TCs, applicable provisions of Part 26 are included in the certification basis. For any future Part 26 amendments, the holder of this TC must demonstrate compliance with the applicable sections.

Exemption 9947

This exemption grants relief to Bombardier Model CL-600-1A11 (600), CL-600-2A12 (601), and CL-600-2B16 (601-3A & 3R Variants) from having to meet the airworthiness requirements of §§ 26.11, 26.33, 26.35, 26.43, 26.45, and 26.49. See NOTE (10)

Model CL-600-2B16 (604 Variant)

Based on § 21.101(g) for changes to TCs, applicable provisions of Part 26 are included in the certification basis. For any future Part 26 amendments, the holder of this TC must demonstrate compliance with the applicable sections.

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Exemption 9947

This exemption grants relief to Bombardier <u>Model CL-600-2B16 (604 Variant)</u> from having to meet the airworthiness requirements of §§ 26.11, 26.33, 26.35, 26.43, 26.45, and 26.49. See NOTE (10)

Model CL-600-2B19

Based on § 21.101(g) for changes to TCs, applicable provisions of Part 26 are included in the certification basis. For any future Part 26 amendments, the holder of this TC must demonstrate compliance with the applicable sections.

Compliance has been found for the following regulations 14 CFR § 26.11, 26.33, 26.43, 26.45 and 26.49. (Amdt.No.26-0, through 26-1)

Model CL-600-2C10

Based on § 21.101(g) for changes to TCs, applicable provisions of Part 26 are included in the certification basis. For any future Part 26 amendments, the holder of this TC must demonstrate compliance with the applicable sections.

Compliance has been found for the following regulations 14 CFR § 26.11, 26.33, 26.43, 26.45 and 26.49. (Amdt.No.26-0, through 26-1)

Model CL-600-2D15/CL-600-2D24

Based on § 21.101(g) for changes to TCs, applicable provisions of Part 26 are included in the certification basis. For any future Part 26 amendments, the holder of this TC must demonstrate compliance with the applicable sections.

Compliance has been found for the following regulations 14 CFR \S 26.11, 26.33, 26.43, 26.45 and 26.49. (Amdt.No.26-0, through 26-1).

Model CL-600-2E25

Based on § 21.101(g) for changes to TCs, applicable provisions of Part 26 are included in the certification basis. For any future Part 26 amendments, the holder of this TC must demonstrate compliance with the applicable sections.

Compliance has been found for the following regulations 14 CFR § 26.11, 26.33, 26.43, 26.45. (Amdt.No.26-0, through 26-3)

Additional Design Requirements and Conditions

The following design details or information must be maintained to ensure that an unsafe design condition is not present:

The engines of the CL-600-2C10, CL-600-2D15, CL-600-2D24, and CL-600-2E25 are able to be restored to a sufficient power/thrust level following an all engines out case, in order to enable the aircraft to achieve level flight without excessive loss of altitude.

This Aircraft Type Certificate Data Sheet defines a configuration which does not include passenger provision for the CL-600-1A11 (600), CL-600-2A12 (601), and CL-600-2B16 (601-3A, 3R & 604 Variants) models. Carriage of persons in the cabin is permitted when an approved seating arrangement and related required passenger provisions are incorporated.

(a) Current weight and balance report including the list of equipment included in the certificated empty weight, and loading instructions when necessary, must be provided for each aircraft at the time of original certification.

(b) <u>Model CL-600-1A11 (600)</u>, <u>CL-600-2A12 (601)</u>, and <u>CL-600-2B16 (601-3A</u>, <u>3R</u> & 604 <u>Variants</u>)

System fuel, which must be included in the empty weight, is the amount of fuel required to fill the system plumbing and tanks to the undrainable level plus unusable fuel in the fuel tanks. The total amount of "system fuel" for the following Challenger variants is:

Model:	<u>Total Unusable (system fuel)</u>
CL-600-1A11 (600), 2A12 (601)	16.0 gal. total, 109 lb., (arm +500.00)
CL-600-2B16 (601-3A & 3R Variants)	17.5 gal. total, 119 lb., (arm +524.80)
CL-600-2B16 (604 Variant)	19.0 gal. total, 129 lb., (arm +536.60)

NOTE 1

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Model CL-600-2B19

System fuel, which must be included in the empty weight, is the amount of fuel required to fill the system plumbing and tank to the undrainable level plus unusable fuel in the fuel tanks. The total amount of "system fuel" is 14.5 U.S. Gal., 97 lb. (arm +494.3).

Model CL-600-2C10

System fuel, which must be included in the empty weight, is the amount of fuel required to fill the system plumbing and tank to the undrainable level plus unusable fuel in the fuel tanks. The total amount of "system fuel" is 33.8 U.S. Gal., 228.2 lb. (arm +819.7 in).

Model CL-600-2D15/CL-600-2D24

System fuel, which must be included in the empty weight, is the amount of fuel required to fill the system plumbing and tank to the undrainable level plus unusable fuel in the fuel tanks. The total amount of "system fuel" is 33.8 U.S. Gal., 228.2 lb. (arm+929.3 in).

Model CL-600-2E25

System fuel, which must be included in the empty weight, is the amount of fuel required to fill the system plumbing and tank to the undrainable level plus unusable fuel in the fuel tanks. The total amount of "system fuel" is 37.5 U.S. Gal., 252.8 lb. (arm +997.6 in).

(c) Model CL-600-1A11 (600)

System oil, which must be included in the empty weight, is the amount of oil necessary for engine lubrication. The total amount of "system oil" is as follows:

7.38 U.S. gal. (total) 56.8 lb., (arm +623)

Model CL-600-2A12 (601) and CL-600-2B16 (601-3A, 3R and 604 Variant)

System oil, which must be included in the empty weight, is the amount of oil necessary for engine lubrication. The total amount of "system oil" is as follows:

6.1 U.S. gal. (total), 47 lb., (arm +680.5)

Model CL-600-2B19

System oil, which must be included in the empty weight, is the amount of oil necessary for engine lubrication. The total amount of "system oil" is as follows:

5.83 U.S. gal. (total), 47 lb., (arm +785.67)

Model CL-600-2C10

System oil, which must be included in the empty weight, is the amount of oil required to fill the system plumbing and tanks. The total amount of "system oil" is as follows:

With option TS670-79-201 – Engine Oil – No Remote Replenishment System,

6.1 U.S. Gal., 49.9 lb. (arm +1077.7 in)

With option CR670-79-201 - Engine Oil - Remote Replenishment System,

7.8 U.S. Gal., 62.9 lb. (arm +1091.2 in)

Model CL-600-2D15/CL-600-2D24

System oil, which must be included in the empty weight, is the amount of oil required to fill the system plumbing and tanks. The total amount of "system oil" is as follows:

With option TS670-79-201 – Engine Oil – No Remote Replenishment System,

6.1 U.S. Gal., 49.9 lb. (arm +1229.7 in)

With option CR670-79-201 - Engine Oil - Remote Replenishment System,

7.8 U.S. Gal., 62.9 lb. (arm +1243.2 in)

Model CL-600-2E25

System oil, which must be included in the empty weight, is the amount of oil required to fill the system plumbing and tanks. The total amount of "system oil" is as follows:

With option TS670-79-201 – Engine Oil – No Remote Replenishment System, 5.2 U.S. Gal., 42.4 lb. (arm +1345.6 in)

With option CR670-79-201 – Engine Oil – Remote Replenishment System, 6.8 U.S. Gal., 55.4 lb. (arm +1356.8 in)

(d) Model CL-600-1A11 (600)

Aircraft which incorporate Canadair Limited Modification Summaries:

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- 1) 600-556 Modified main landing gear wheel,
- 2) 600-592 Modified main landing gear sidestay,
- 3) 600-1933 Revised airspeed limitation placard.

May be operated to the following limitations (eligible Serial Numbers 1002, 1004 through 1037):

Maximum Weight	<u>lb.</u>
Ramp	38650
Takeoff	38500
Landing	32500
Zero Fuel	28500

<u>Maximum Occupants</u> Twenty-two (includes crew)

C.G. Range

<u>inge</u>	Forward Limit	Aft Limit
Weight, lb.	% MAC (Sta.)	% MAC (Sta.)
24000 to 38650	16 % (+502.848)	
38650		28% (+513.965)
25800		33% (+518.598)
24000		33% (+518.598)
Straight line variation bet	ween points given.	

Maximum Operating Altitude

Takeoff and landing 10000 ft. En route 40000 ft.

41000 ft. with Canadair Limited Modification Summaries

600-1923 & 600-8330 incorporated.

(e) Model CL-600-1A11 (600)

Aircraft which incorporate Canadair Limited Modification Summaries:

- 1) 600-594 Landing gear for 40400 lb. takeoff weight aircraft,
- 2) 600-616 Wheels and brakes for the 40400 lb. takeoff weight aircraft,
- 3) 600-643 Structural reinforcement at wing B.L. O rib,
- 4) 600-752 Modified anti-skid unit,
- 5) 600-817 Stall protection system computer for the 40400 lb. takeoff weight aircraft,
- 6) 600-8150 Placard for the 40400 lb. takeoff weight aircraft,
- 7) 600-760 Drop down passenger door-production improvement (required only on
- 1) S/N 1024 & subsequent).

May be operated to the following limitations (eligible Serial Numbers 1002, 1004 and subsequent):

Maximum Weight	<u>lb.</u>
Ramp	40550
Takeoff	40400
Landing	36000
Zero fuel	28500

<u>Maximum Occupants</u> Twenty-two (includes crew)

C.G. Range (Aircraft without Canadair Modification Summary 600-8265 incorporated)

	Forward Limit	Aft Limit
Weight, lb.	<u>% MAC (Sta.)</u>	% MAC (Sta.)
24000 to 40550	16 % (+502.848)	-
40550	-	27% (+513.039)
38000	-	31% (+516.745)
31000	-	31% (+516.745)
27500	-	33% (+518.598)
24000	-	33% (+518.598)

Straight line variation between points given.

C.G. Range (Aircraft with Canadair Modification Summary 600-8265 incorporated)

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	Forward Limit	Aft Limit
Weight, lb.	% MAC (Sta.)	% MAC (Sta.)
24000 to 40550	16 % (+502.848)	-
40550	-	27% (+513.039)
38000	-	31% (+516.745)
31000	-	31% (+516.745)
28500	-	35% (+520.450)
24000	-	33% (+520.450)
Straight line variation bety	ween points given.	

Maximum Operating Altitude

Takeoff and landing 10000 ft. En route 40000 ft.

41000 ft. with Canadair Modification Summaries 600-1923

& 600-8330 incorporated

(f) Model CL-600-1A11 (600)

Airspeed Limits (CAS)

Aircraft which, in addition to the Canadair Modification Summaries essential for operation at a maximum takeoff weight of 40400 lb., also incorporate the following Canadair Modification Summary:

 600-665 Revised Vmo/Mmo outputs of ADC and limitations placard may be operated at the following limitations:

Vmo and Mmo (maximum operating)	<u>m.p.h.</u>	<u>Knots</u>	Mach.
Sea level to 10000 feet	345	300	-
Above 10000 feet	420	365	0.835

Extension of the flight spoilers at airspeeds above Mach = 0.79 is not permitted unless the following additional Canadair Modification Summaries are incorporated:

- 1) 600-512 Prevention of spoiler asymmetry
- 2) 600-809 Dormant failure protection of the flight spoiler detent
- 3) 600-8212 Hydraulic pipe routing to suit spoiler detent mechanism.

(g) Model CL-600-1A11 (600)

Aircraft Serial Numbers 1086 and subsequent and aircraft incorporated the following:

- 1) Either
 - Canadair Service Bulletin
 600-0378 Modification Stall Protection System Stall Strip Removal and Altitude Compensation
- or b) Supplementary Type Certificate SA99NE Wing Stall Strip Removed and
- 2) Canadair Service Bulletin

 $600\mbox{-}0379$ - Modification - Tires and Airspeed Limitation Placards – 41100 Pounds Takeoff Weight.

May be operated to the following limitations (eligible Serial Numbers 1002, 1004 and subsequent)

Maximum Weight	<u>lb.</u>
Ramp	41250
Takeoff	41100
Landing	36000
Zero fuel	28500

<u>Maximum Occupants</u> Twenty-two (includes crew).

C.G. Range Aircraft 1004, 1009, 1053 to 1056, 1066 and subsequent and Aircraft incorporating Canadair Service Bulletin 600-0221 or 600-0486

	Forward Limit	Aft Limit
Weight, lb.	% MAC (Sta.)	% MAC (Sta.)
24000 to 41250	16% (+502.848)	-

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41250	-	26% (+512.112)
38000	-	31% (+516.745)
31000	-	31% (+516.745)
28500	-	35% (+520.450)
24000	-	35% (+520.450)
Straight line variation between points given.		

C.G. Range (Other Aircraft)

	Forward Limit	Aft Limit
Weight, lb.	% MAC (Sta.)	% MAC (Sta.)
24000 to 41250	16% (+502.848)	-
41250	-	26% (+512.112)
38000	-	31% (+516.745)
31000	-	31% (+516.745)
27500	-	33% (+518.598)
24000	-	33% (+518.598)

Straight line variation between points given.

Maximum Operating Altitude

Takeoff and landing 10000 ft. En route 41000 ft.

Airspeed Limits (CAS)

Vmo and Mmo (maximum operating)	<u>m.p.h.</u>	Knots	Mach.
Sea level to 10000 feet	345	300	_
Above 10000 feet	420	365	0.835

Extension of the flight spoilers at airspeeds above Mach = 0.80 is not permitted on Aircraft S/N 1005 to 1008, 1010 to 1052, 1057 to 1066 not incorporating Canadair Service Bulletin 600-0086 Modification - Spoilers - Ground Spoiler Activation and Flight Spoiler Detent Mechanism.

(h) Model CL-600-1A11 (600)

Aircraft incorporating the following Canadair Service Bulletins

- a) 600-0350 Modification Engine Speed Indicating- N1 Fan Speed Indicator
- 600-0379 Modification Tires and Airspeed Limitation Placards 41100 lb. Takeoff Weight.
- c) 600-0401 Modification Winglets Addition

With Aircraft Serial Numbers 1005 to 1008 and 1010 to 1051 incorporating the following additional Canadair Service Bulletins

either 600-0096 Modification - Nose Landing Gear Steering

or 600-0380 Modification - Nose Gear - Steer by Wire.

May be operated to the following limitations (eligible Serial Numbers 1002, 1004 and subsequent).

Maximum Weight	<u>lb.</u>
Ramp	41250
Takeoff	41100
Landing	36000
Zero Fuel	28500

<u>Maximum Occupants</u> Twenty-two (includes crew).

C.G. Range Aircraft 1004, 1009, 1053 to 1056, 1066 and Subsequent and Aircraft Incorporating Canadair Service Bulletin 600-0221 or 600-0486

	Forward Limit	Aft Limit
Weight, lb.	% MAC (Sta.)	% MAC (Sta.)
24000 to 41250	16% (+502.848)	-
41250	-	26% (+512.112)
38000	-	31% (+516.745)
31000	-	31% (+516.745)
28500	-	35% (+520.450)

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24000 - 35% (+520.450) Straight line variation between points given.

C.G. Range (Other Aircraft)

	Forward Limit	Aft Limit
Weight, lb.	% MAC (Sta.)	% MAC (Sta.)
24000 to 41250	16% (+502.848)	-
41250	-	26% (+512.112)
38000	-	31% (+516.745)
31000	-	31% (+516.745)
27500	-	33% (+518.598)
24000	-	33% (+518.598)

Straight line variation between points given.

Maximum Operating Altitude

Takeoff and landing 10000 ft. En route 41000 ft.

Airspeed Limits (CAS)

Vmo and Mmo (maximum operating)	m.p.h.	Knots	Mach
Sea level to 10000 feet	345	300	-
10000 ft. to 21420 ft.	420	365	-
21420 ft. to 25740 ft.	-	-	0.79
25740 ft. to 28640 ft.	385	335	-
above 28640 ft.	-	-	0.835
Vfe (Flaps extended)			
20°	265	230	
30°	226	196	
45°	215	187	

Extension of the flight spoilers at airspeeds above Mach = 0.79 is not permitted on Aircraft S/N 1005 to 1008, 1010 to 1052, 1057 to 1066 not incorporating Canadair Service Bulletin 600-0086 Modification - Spoilers - Ground Spoiler Activation and Flight Spoiler Detent Mechanism.

(i) Model CL-600-1A11 (600)

Aircraft incorporating the following Canadair Service Bulletins

- a) 600-0350 Modification Engine Speed Indicating- N_1 Fan Speed Indicator
- b) 600-0446 Modification Placard-41250 lb. Take-off Weight (Aircraft with Winglets).
- c) 600-0401 Modification Winglets Addition

With Aircraft Serial Numbers 1005 to 1008 and 1010 to 1051 incorporating the following additional Canadair Service Bulletins

either 600-0096 Modification - Nose Landing Gear Steering

or 600-0380 Modification - Nose Gear - Steer by Wire.

May be operated to the following limitations (eligible Serial Numbers 1002, 1004 and subsequent).

Maximum Weight	<u>lb.</u>
Ramp	41400
Takeoff	41250
Landing	36000
Zero Fuel	28500

<u>Maximum Occupants</u> Twenty-two (includes crew).

C.G. Range Aircraft 1004, 1009, 1053 to 1056, 1066 and Subsequent and Aircraft Incorporating Canadair Service Bulletin 600-0221

	Forward Limit	Aft Limit
Weight, lb.	% MAC (Sta.)	% MAC (Sta.)
24000 to 41400	16% (+502.848)	-
41400	-	26% (+512.112)

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38000	-	31% (+516.745)
31000	-	31% (+516.745)
28500	-	35% (+520.450)
24000	-	35% (+520.450)

Straight line variation between points given.

C.G. Range (Other Aircraft)

ange (Other Arrelait)		
	Forward Limit	Aft Limit
Weight, 1b.	% MAC (Sta.)	% MAC (Sta.)
24000 to 41400	16% (+502.848)	-
41400	-	26% (+512.112)
38000	-	31% (+516.745)
31000	-	31% (+516.745)
27500	-	33% (+518.598)
24000	-	33% (+518.598)
Straight line variation betw	veen points given.	

Maximum Operating Altitude

Takeoff and landing 10000 ft. En route 41000 ft.

Airspeed Limits (CAS)

Vmo and Mmo (maximum operating)	<u>m.p.h</u>	Knots	Mach
Sea level to 10000 feet	345	300	Ξ.
10000 ft. to 21420 ft.	420	365	-
21420 ft. to 25740 ft.	-	-	0.79
25740 ft. to 28640 ft.	385	335	-
above 28640 ft.	-	-	-0.835
Vfe (Flaps extended)			
20°	265	230	
30°	226	196	
45°	215	187	

Extension of the flight spoilers at airspeeds above Mach = 0.79 is not permitted on Aircraft S/N 1005 to 1008, 1010 to 1052, 1057 to 1066 not incorporating Canadair Service Bulletin 600-0086 Modification - Spoilers - Ground Spoiler Activation and Flight Spoiler Detent Mechanism.

(j) Model CL-600-2A12 (601)

Aircraft Serial Numbers 3018 and subsequent and aircraft incorporating the following Canadair Service Bulletin 601-0032 - Modification - Tires and Airspeed Limitation Placards 43100 lb. Takeoff Weight may be operated to the following limitations (eligible Serial Numbers 1003, 3001 and subsequent)

Maximum Weight	<u>lb.</u>
Ramp	43250
Takeoff	43100

Maximum Occupants Twenty-two (includes crew).

C.G. Range

	Forward Limit	Aft Limit
Weight, lb.	% MAC (Sta.)	% MAC (Sta.)
25000 to 43250	16% (+502.848)	-
43250	-	30% (+515.818)
31000	-	35% (+520.450)
25000	-	35% (+520.450)
Straight line variation bety	ween points given.	

Model CL-600-1A11 (600)

All placards must be installed in accordance with Canadair Limited Drawings: 600-40402, 600-

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40452, 600-51000, 600-51002, 600-51004

Model CL-600-2A12 (601)

All placards must be installed in accordance with Canadair Limited Drawings: 601-40402, 601-40452, 600-51000, 600-51002, 601-51004.

Model CL-600-2B16 (601-3A, 3R and 604 Variants)

All placards must be installed in accordance with Canadair Limited Drawings: 601-40402, 601-40452, 601A51000, 601A51002, 601A51004.(601-3A & 3R Variants) 601-40402, 601-40452 & 604-51000 (604 Variant)

Model CL-600-2B19

All placards must be installed in accordance with Canadair Limited Drawings: 601R47600, 601R47602, 601R47700.

Note: Customized markings and placards drawings are not included.

Model CL-600-2C10

All placards must be installed in accordance with Canadair Limited Drawings: BA670-47501, BA670-47506, BA670-47800. Self-illuminated Signs and Electrical Signs must be installed in accordance with BA670-47802 and BA670-47803.

Note: Customized markings and placards drawings are not included. Drawings noted above are for basic type certification only. For as-delivered aircraft configurations, refer to customer options listed in RAL-670-300.

Model CL-600-2D15/CL-600-2D24

All placards must be installed in accordance with the Bombardier Aerospace Drawings: BA690-47500, BA690-47506, BA690-47804. Self-illuminated Signs and Electrical Signs must be installed in accordance with BA690-47805 and BA690-47806.

Drawings noted above are for basic type certification only. For as- delivered aircraft configurations, refer to RAL-690-XXXX for S/N 15001 to 15013, and RAL-BA690-XXXX for S/N 15014 and subsequent. (XXXX denotes the serial number for the aircraft concerned).

Model CL-600-2E25

All placards must be installed in accordance with the Bombardier Aerospace Drawings: BA670-47850, BA670-47869, BA690-47504, BA690-47518, BA690-47525, BA690-47526, BA690-47528, BA690-47529, BA690-47530, BA698-47203, BA698-47502, BA698-47519, BA698-47800, BA698-47805 and CC698-47251. Self-illuminated Signs and Electrical Signs must be installed in accordance with BA690-47805 and BA698-47801.

Drawings noted above are for basic type certification only. For as- delivered aircraft configurations, refer to RAL-BA698-19XXX for S/N 19001 and subsequent. (19XXX denotes the serial number for the aircraft concerned).

Model CL-600-1A11 (600)

The airplane life limits and repetitive inspections for components and equipment are listed in Canadair Time Limits/Maintenance Checks, PSP 605. These limitations may not be changed without FAA Engineering approval. This document with Canadair Maintenance Manual, PSP 602 and Job Inspection Card Manual PSP 622, NDT-612 contain all information essential for proper maintenance.

Model CL-600-2A12 (601)

The airplane life limits and repetitive inspections for components and equipment are listed in Canadair Time Limits/Maintenance Checks, PSP 601-5. These limitations may not be changed without FAA Engineering approval. This document with Canadair Maintenance Manual, PSP 601-2 and Job Inspection Card Manual PSP 601-22, NDT-612 contain all information essential for proper maintenance.

Model CL-600-2B16 (601-3A, 3R and 604 Variants)

The airplane life limits and repetitive inspections for components and equipment are listed as follows:

- 1. 601 3A and 3R Variants: Canadair Time Limits/Maintenance Checks, PSP 601A-5;
- 604 Variant (s/n 5301 to 5699): Time Limits/Maintenance Checks, Identification No. CH 604 TLMC, Section 5-10;

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- 604 Variant (s/n 5701 to 5990): Time Limits/Maintenance Checks, Identification No. CH 605 TLMC, Section 5-10.
- 4. 604 Variant (s/n 6050 and subsequent): Time Limits/Maintenance Checks, Identification No. CH 650 TLMC, Section 5-10.

These limitations may not be changed without FAA Engineering approval. These documents and the associated Canadair Maintenance Manual:

- 601 3A and 3R Variants: Aircraft Maintenance Manual PSP 601-2 Identification No. CH 601MM;
- 604 Variant (s/n 5301 to 5699): Aircraft Maintenance Manual Identification No. CH 604 MM;
- 604 Variant (s/n 5701 to 5990): Aircraft Maintenance Manual Identification No. CH 605 MM·
- 604 Variant (s/n 6050 and subsequent): Aircraft Maintenance Manual Identification No. CH 650MM:

and/or Job Inspection Card Manuals PSP601A-22 (601-3A Variant) and/or PSP 601R-22 (601-3R Variant), PSP604-22 (604 Variant), NDT604-12 contain all information essential for proper maintenance.

Model CL-600-2B19

The airplane life limits and repetitive inspections for components and equipment and information essential for proper maintenance, are listed in Canadair Program Document CSP A-053, Part 2. These limitations may not be changed without FAA Engineering approval.

Model CL-600-2C10

The airplane life limits and repetitive inspections for components and equipment and information essential for proper maintenance, are listed in Canadair Program Document CSP B-053, Part 2. These limitations may not be changed without FAA Engineering approval.

Model CL-600-2D15/CL-600-2D24

The airplane life limits and repetitive inspections for components and equipment and information essential for proper maintenance, are listed in Bombardier Aerospace Program Document CSP B-053, Part 2. These limitations may not be changed without FAA Engineering approval.

Model CL-600-2E25

The airplane life limits and repetitive inspections for components and equipment and information essential for proper maintenance, are listed in Bombardier Aerospace Program Document CSP B-053, Part 2. These limitations may not be changed without FAA Engineering approval.

Model CL-600-2B19

Major modifications which define the aircraft as the "Green Configuration" are recorded in document RAZ-601R-110 (Definition of Type Design for Transport Canada approval), as Appendix 2 to that document.

Model CL-600-2B19

The green aircraft type design 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 Type Approval Basis.

Aircraft delivered in the "Green Configuration" and incorporating Mod. Summary TC60255 (Blocking of Emergency Exits) are limited to carrying a maximum of twenty-two (22) occupants including the crew and no more than 19 passengers in accordance with FAR 25 requirements.

Model CL-600-2B19

1.

For all weather flight capability the Regional Jet aircraft is certified to operate in CAT II conditions, except when the aircraft is installed with the HGS system (TC 601R60262), in which case the aircraft is certified to operate in CAT IIIa conditions.

Model Cl-600-2B16 (604 Variant)

The following additional requirements must be included with FAR 25.109 at Amendment 25-37:

Airplane Flight Manual information, in the form of guidance material, must be provided for supplementary operating procedures and performance information for operating on wet and

NOTE 4

NOTE 5

NOTE 6

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contaminated runways.

2. The accelerate-stop distance and landing distance must be determined using the braking performance which is obtained with the brake conditions that are expected in service.

NOTE 8

The RJ200 is a marketing designation for the Regional Jet Series 100 aircraft with the General Electric CF-34-3B1 engines installed and is identified as the Regional Jet Series 100 or RJ100 in this TCDS. All Airworthiness Directives issued against any 100 series aircraft are similarly applicable to the 200 series. Special Edition (SE) and Challenger 850 are marketing designations used for a CL-600-2B19 delivered in a green configuration (See NOTES 4 & 5) and subsequently finished with an approved interior via Supplemental Type Certificates.

NOTE 9

The Challenger 605 is a marketing designation for the Challenger CL-600-2B16 (604 Variant) with Modsums 604DX10000, 604DX20000 and 604DX30000 incorporated, beginning with aircraft s/n 5701 to s/n 5990. This designation is for marketing purposes only.

NOTE 10

This exemption does not grant relief from the related operational requirements contained in §§ 121.1109, 121.1111, 121.1117, 125.509, 129.109, 129.111 or 129.117. Should a person choose to operate a Bombardier Model CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant) or CL-600-2B16 (604 Variant) airplane under part 121, 125, or part 129 beyond the operational compliance deadlines as stated in §§ 121.1109, 121.1111, 121.1117, 125.509, 129.109, 129.111 or 129.117, that person will be required to comply with those operational requirements.

NOTE 11

Exemption No. 10175 for Structural Lightning Protection Features, expires on December 17, 2012. After the expiration of the Exemption, Model CL-600-2E25 aircraft serial number is not eligible for an FAA Certificate of Airworthiness unless it is shown to comply with FAR 25.981(a)(3), Amendment 102.

NOTE 12

Model CL-600-2E25 aircraft Serial Number (S/N) 19001 to 19012 have not been shown to comply with 14 CFR Part 25.856(b) at time of delivery.

Serial Numbers 19001 through 19012 are not eligible for a US Certificate of Airworthiness unless modified to comply with 14 CFR Part 25.856(b).

NOTE 13

For Model CL-600-2C10 – Series 702 aircraft fitted with an approved interior including the Equivalent Safety Finding against FAR 25.801 and 25.813, the maximum passenger capacity is limited to 71 passengers with a maximum of 28 passenger seats aft of the Type III overwing exit.

For Model CL-600-2C10 – Series 700 and Series 701 aircraft fitted with an approved interior including the Equivalent Safety Finding against FAR 25.801 and 25.813, the maximum passenger capacity remains the same (68 and 70 passengers respectively) with a maximum of 28 passenger seats aft of the Type III overwing exit.

NOTE 14

The Challenger 650 is a marketing designation for the Challenger CL-600-2B16 (604 Variant) beginning with aircraft s/n 6050 and subsequent. This designation is for marketing purposes only.

...END...