



I Model 208, Caravan I (cont'd)

Engine Limits: [Applicable to S/N 20800277 and Up]	P&W PT6A-114A				Maximum Permissible Interturbine Temp. (°C)
	Shaft Horsepower	NG Gas Generator Speed (% rpm)	Indicator Torque (ft.-lbs.)	Prop Shaft Speed (rpm)	
Takeoff static & max. continuous	675 <sup>(1)</sup>	101.6	1865	1900	805
Maximum climb	675 <sup>(1)</sup>	101.6	1865/1970 <sup>(2)</sup>	1900	765
Maximum cruise	675 <sup>(1)</sup>	101.6	1865/1970 <sup>(2)</sup>	1900	740
Idle	-	52 min.	-	-	685
Starting (2 sec.)	-	-	-	-	1090
Max. reverse (1 min.)	675 <sup>(1)</sup>	101.6	1865	1825	805
Transient (2 sec.)	-	102.6	2200	2090	850

## (1) Flat Rated:

The engines may produce more power than that for which the airplane has been certificated. Under these conditions, the stated torque, ITT, or Ng limitations shall not be exceeded.

## (2) If maximum torque is used, propeller r.p.m. must be set so as not to exceed power limitations.

## Propeller and Propeller Limits [Applicable to S/N 20800001 through 20800276]:

Hartzell composite three-bladed, constant speed, full-feathering, reversible Model: HC-B3MN3/M10083

Diameter: Maximum 100 inches, minimum 100 inches, no cutoff approved

Pitch at 42-inch station:

Low pitch (Beta pickup)	9°
Feathered	78.4°
Maximum Reverse	-18°

## Propeller and Propeller Limits [Applicable to S/N 20800001 and Up]:

McCaughey aluminum three-bladed, constant speed, full-feathering, reversible

Model: 3GFR34C703/106GA-0

Diameter: Maximum 106 inches, minimum 104 inches (2-inch cutoff on diameter allowed)

Pitch at 30-inch station:

Low pitch (Beta pickup)	+15.6°
Feathered	+88°
Maximum Reverse	-14°

## \*Airspeed Limits

S/N 20800001 through 20800060

$V_{MO}$ (Max Operating)	175 KIAS
$V_A$ (Maneuvering) at 7300 lbs.	148 KIAS
See POH/AFM for variations with weight and altitude.	
$V_{FE}$ (Flaps extended)	
To 10°	175 KIAS
10° to 20°	150 KIAS
20° to 30°	125 KIAS

## \*Airspeed Limits

S/N 20800061 and Up

$V_{MO}$ (Max Operating)	175 KIAS
$V_A$ (Maneuvering) at 8000 lbs.	150 KIAS
See POH/AFM for variations with weight and altitude.	

$V_{FE}$ (Flaps extended)	
To 10°	175 KIAS
10° to 20°	150 KIAS
20° to 30°	125 KIAS

I Model 208, Caravan I (cont'd)

*Airspeed Limits	$V_{MO}$ (Max Operating)	175 KIAS
Amphibian	$V_A$ (Maneuvering) at 7600 lbs.	141 KIAS
S/N 20800014 and Up	See POH/AFM for variations with weight and altitude.	
	$V_{FE}$ (Flaps extended)	
	To 10°	175 KIAS
	10° to 20°	150 KIAS
	20° to 30°	125 KIAS
C.G. Range	Takeoff, flight, and landing	
S/N 20800001 through 20800060	(+171.91) to (+182.68) at 7300 lbs.	
	(+162.41) to (+182.68) at 4200 lbs.	
	Straight line variation between points given	
C.G. Range	Takeoff and flight	
S/N 20800061 and Up	(+174.06) to (+184.35) at 8000 lbs.	
	(+162.41) to (+184.35) at 4200 lbs.	
	Straight line variation between points given	
	Landing	
	(+173.44) to (+184.35) at 7800 lbs.	
	(+162.41) to (+184.35) at 4200 lbs.	
	Straight line variation between points given	
C.G. Range	Takeoff and flight	
Amphibian	(+172.83) to (+182.68) at 7600 lbs.	
S/N 20800014 and Up	(+165.47) to (+182.68) at 5200 lbs.	
	Straight line variation between points given	
	Landing	
	(+171.91) to (+182.68) at 7300 lbs.	
	(+165.47) to (+182.68) at 5200 lbs.	
	Straight line variation between points given	
Empty Wt. C.G. Range	None	
Maximum Weight	7300 lb. takeoff, flight, and landing	
S/N 20800001 through 20800060	7335 lb. ramp	
Maximum Weight	8000 lb. takeoff and flight	
S/N 20800061 and Up	7800 lb. landing	
	8035 lb. ramp	
Maximum Weight	7600 lb. takeoff and flight	
Amphibian	7300 lb. landing	
S/N 20800014 and Up	7635 lb. ramp	
No. of Seats	1 through 10 (2 at +133.5 to +146.5, 2 at +169.6, 1 at +185.9, 2 at +201.9, 1 at +217.9, 2 at +233.9)	
	1 through 10 (2 at +133.5 to +146.5, 2 at +166.5, 2 at +193.5, 2 at +220.5, 1 at +245.5, 1 at +248.5)	
	Refer to current Pilot's Operating Handbook and FAA Approved Airplane Flight Manual for other seating arrangements.	

Maximum Baggage

Reference weight and balance data

Fuel Capacity

335 gal. (332 gal. usable), two 167.5 gal. tanks in wings at +183.8  
See NOTE 1 for data on unusable fuel.



Ng limitations shall not be exceeded.

II - Model 208A, Caravan I (cont'd)

- (2) If maximum torque is used, propeller r.p.m. must be set so as not to exceed power limitations.

Propeller and Propeller Limits	<p>Hartzell composite three-bladed, constant speed, full-feathering, reversible  Model: HC-B3MN3/M10083  Diameter: Maximum 100 inches, minimum 100 inches, no cutoff approved  Pitch at 42-inch station:</p> <table border="0"> <tr> <td>Low pitch (Beta pickup)</td> <td>9°</td> </tr> <tr> <td>Feathered</td> <td>78.4°</td> </tr> <tr> <td>Maximum Reverse</td> <td>-18°</td> </tr> </table> <p>McCaughey aluminum three-bladed, constant speed, full-feathering, reversible  Model: 3GFR34C703/106GA-0  Diameter: Maximum 106 inches, minimum 104 inches (2-inch cutoff on diameter allowed)  Pitch at 30-inch station:</p> <table border="0"> <tr> <td>Low pitch (Beta pickup)</td> <td>+15.6°</td> </tr> <tr> <td>Feathered</td> <td>+88°</td> </tr> <tr> <td>Maximum Reverse</td> <td>-14°</td> </tr> </table>	Low pitch (Beta pickup)	9°	Feathered	78.4°	Maximum Reverse	-18°	Low pitch (Beta pickup)	+15.6°	Feathered	+88°	Maximum Reverse	-14°		
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To 10°	175 KIAS														
10° to 20°	150 KIAS														
20° to 30°	125 KIAS														
C.G. Range	<p>Takeoff and flight  (+174.06) to (+184.35) at 8000 lbs.  (+162.41) to (+184.35) at 4200 lbs.  Straight line variation between points given</p> <p>Landing  (+173.44) to (+184.35) at 7800 lbs.  (+162.41) to (+184.35) at 4200 lbs.  Straight line variation between points given</p>														
Empty Wt. C.G. Range	None														
Maximum Weight	8000 lb. takeoff and flight 7800 lb. landing 8035 lb. ramp														
No. of Seats	2 (+133.5 to +146.5)														
Maximum Baggage	Reference weight and balance data														
Fuel Capacity	335 gal. (332 gal. usable), two 167.5 gal. tanks in wings at +183.8 See NOTE 1 for data on unusable fuel.														
Oil Capacity	3.5 gal. total, 2.37 gal. usable in engine mounted tank at +69.2														



Maximum Operating Altitude      30,000 ft.

II - Model 208A, Caravan I (cont'd)

Control Surface Movements	Wing flaps	0° ±1° Up, 10° +0° -2° Down, 20° ±2° Down, 30° +1° -2° Down			
		LH & RH Flap Extension to be symmetric within 1/2° at all positions			
		Main surfaces			
	Ailerons	Up	25° +4° -0°	Down	16° +1° -0°
	Spoiler	Up	40° ±5°	Down	0° +0° -5°
	Elevator	Up	25° ±2°	Down	20° ±2°
	Rudder	Right	25° ±2°	Left	25° ±2°
		(Measured perpendicular to hinge line)			
		Tabs (main surfaces in neutral)			
	Aileron (RH)	Up	15° ±2°	Down	15° ±2°
	Elevator	Up	15° ±2°	Down	15° ±2°
		Tabs servo actions			
		Aileron (RH) (tab adjusted to neutral)			
		50% of aileron travel ±1° Up and Down			
		Aileron (LH) 50% of aileron travel ±1° Up and Down			
Serial Nos. Eligible		20800007 through 20800102			

III - Model 208B, Caravan I, 2 PCLM (Normal Category), Approved October 9, 1986

Model 208B, Caravan I, 11 PCLM (Normal Category), Approved December 13, 1989

Engine	Pratt & Whitney of Canada Ltd., PT6A-114 Turbo Prop, S/N 208B0001 through S/N 208B0178 and 208B0180 through 208B0229, and as modified by SK208-84
	Pratt & Whitney of Canada Ltd., PT6A-114A Turbo Prop,
	(a) S/N 208B0001 through S/N 208B0178 and 208B0180 through 208B0229 and as modified by SK208-84 when operated to PT6A-114 operating limits
	(b) S/N 208B0179, S/N 208B0230 and on, and as modified by SK208-80 S/N 208B0230 and on, and as modified by SK208-80
Fuel of	Aviation turbine fuel Jet A, Jet A-1, Jet B, JP-1, JP-4, JP-5 or JP-8. For required use anti-icing additives and emergency use of aviation gasoline, refer to the Pilot's Operating Handbook and FAA Approved Airplane Flight Manual.

Engine Limits P&W PT6A-114 or PT6A-114A when operated to PT6A-114 operating limits

	Shaft Horsepower	NG Gas		Prop Shaft Speed (rpm)	Maximum Permissible Interturbine Temp. (°C)
		Generator Speed (% rpm)	Indicator Torque (ft.-lbs.)		
Takeoff static & max. continuous	600 <sup>(1)</sup>	101.6	1658	1900	805
Maximum climb	600 <sup>(1)</sup>	101.6	1658/1970 <sup>(2)</sup>	1900	765
Maximum cruise	600 <sup>(1)</sup>	101.6	1658/1970 <sup>(2)</sup>	1900	740
Idle	-	52 min.	-	-	685
Starting (2 sec.)	-	-	-	-	1090
Max. reverse (1 min.)	600 <sup>(1)</sup>	101.6	1658	1825	805
Transient (2 sec.)	-	102.6	2200	2090	850

III - Model 208B (cont'd)

## Engine Limits (cont'd)

PT6A-114A (675 hp)

	Shaft Horsepower	NG Gas	Indicator Torque (ft.-lbs.)	Prop Shaft Speed (rpm)	Maximum Permissible Interturbine Temp. (°C)
		Generator Speed (% rpm)			
Takeoff static & max. continuous	675 <sup>(1)</sup>	101.6	1865	1900	805
Maximum climb	675 <sup>(1)</sup>	101.6	1865/1970 <sup>(2)</sup>	1900	765
Maximum cruise	675 <sup>(1)</sup>	101.6	1865/1970 <sup>(2)</sup>	1900	740
Idle	-	52 min.	-	-	685
Starting (2 sec.)	-	-	-	-	1090
Max. reverse (1 min.)	675 <sup>(1)</sup>	101.6	1865	1825	805
Transient (2 sec.)	-	102.6	2200	2090	850

## (1) Flat Rated:

The engines may produce more power than that for which the airplane has been certificated. Under these conditions, the stated torque, ITT, or Ng limitations shall not be exceeded.

## (2) If maximum torque is used, propeller r.p.m. must be set so as not to exceed power limitations.

Propeller and  
Propeller Limits

Hartzell composite three-bladed, constant speed, full-feathering, reversible

Model: HC-B3MN3/M10083

Diameter: Maximum 100 inches, minimum 100 inches, no cutoff approved

Pitch at 42-inch station:

Low pitch (Beta pickup)	9°
Feathered	78.4°
Maximum Reverse	-18°

McCauley aluminum three-bladed, constant speed, full-feathering, reversible

Model: 3GFR34C703/106GA-0

Diameter: Maximum 106 inches, minimum 104 inches (2-inch cutoff on diameter allowed)

Pitch at 30-inch station:

Low pitch (Beta pickup)	+15.6°
Feathered	+88°
Maximum Reverse	-14°

## \*Airspeed Limits

V<sub>MO</sub> (Max Operating) 175 KIAS

V<sub>A</sub> (Maneuvering) at 8750 lbs. 148 KIAS

See POH/AFM for variations with weight and altitude.

V<sub>FE</sub> (Flaps extended)

To 10° 175 KIAS

10° to 20° 150 KIAS

20° to 30° 125 KIAS

## C.G. Range

Takeoff and flight

(+199.15) to (+204.35) at 8750 lbs.

(+193.37) to (+204.35) at 8000 lbs.

(+179.60) to (+204.35) at 5500 lbs.

Straight line variation between points given

Landing

(+197.22) to (+204.35) at 8500 lbs.

(+193.37) to (+204.35) at 8000 lbs.

(+179.60) to (+204.35) at 5500 lbs.

Straight line variation between points given



below side windows and forward of cargo door.



Data Pertinent to All Models (cont'd)

NOTE 1 Current weight and balance report including list of equipment included in certificated empty weight and loading instructions, when necessary, must be provided for each aircraft at the time of original certification. The certified empty weight and corresponding center of gravity location must include full oil of 29 lbs. (at +69.2), and unusable fuel as follows:

MODEL	SERIAL EFFECTIVITY/MODIFICATION	UNUSABLE FUEL
		lbs. @ c. g.
208/208A	20800001 through 20800130 <i>NOT</i> modified with SK208-52	20.1 @ +185.7
208/208A	20800001 through 20800130 modified with SK208-52	24.1 @ +186.4
208	20800131 and On	24.1 @ +186.4
208B	208B0001 through 208B0089 <i>NOT</i> modified with SK208-52	20.1 @ +205.7
208B	208B0001 through 208B0089 modified with SK208-52	24.1 @ +206.4
208B	208B0090 and On	24.1 @ +206.4

NOTE 2 The placards specified in the Pilot's Operating Handbook and FAA Approved Airplane Flight Manuals listed below (or later revision) must be displayed:

MODEL	CESSNA PART NUMBER
208 [600 SHP]	D1307-27-13PH
208 [675 SHP]	D1352-13PH
208A	D1287-10-13PH
208B [600 SHP]	D1309-21-13PH
208B [675 SHP]	D1329-16-13PH

Model 208 airplanes modified in accordance with SK-208-12 should use Cessna P/N D1307-27-13PH (or later revision).

Model 208A airplanes modified in accordance with SK-208-85 should use Cessna P/N D1307-27-13PH (or later revision) along with Supplement P/N D1331-2-13 (or later revision).

NOTE 3 Airplanes 20800001 through 20800060 are eligible for operation at the same weight and C.G. approved for S/N 20800061 and up when modified in accordance with SK-208-12 or SK-208-85.

NOTE 4 Mandatory inspection times for all wing and wing carry through structural components are contained in the Model 208 Series Maintenance Manual.

NOTE 5 In addition to the placards required by NOTE 2 above, the prescribed operating limitations indicated by an asterisk (\*) must also be displayed as permanent markings.

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