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# TYPE-CERTIFICATE DATA SHEET

No. EASA.IM.A.207

**for**

CESSNA 500, 550, S550, 560, 560XL

**Type Certificate Holder:**

Textron Aviation Inc.

One Cessna Boulevard

Wichita, Kansas 67215

USA

For Models: 500, 550, S550, 560, 560XL



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## **SECTION 1: Model 500, Variants Citation and Citation I**

### **I. General**

#### 1. Model/Variants

- 1.1 Model: 500  
1.2 Variants: Citation (S/N 500-0001 through 500-0349)  
Citation I (S/N 500-0350 through 500-0689)

2. Performance Class: A

3. Certifying Authority: Federal Aviation Authority (FAA) USA  
Wichita Aircraft Certification Office  
1801 Airport Rd, Room 100  
Wichita, KS 67209  
USA

4. Manufacturer: Textron Aviation Inc.  
One Cessna Boulevard  
Wichita, Kansas 67215  
USA

5. FAA Certification Application Date: Original TC application dated 16 July 1968

6. EASA Validation Application Date: N/A

7. FAA Type Certification Date: 09 September 1971

8. EASA Type Validation Date Model 500: 28 September 2003

### **II. Certification Basis**

1. Reference Date for determining the applicable requirements: Same as FAA certification application date

2. FAA Type Certificate Data Sheet No.: A22CE

3. FAA Certification Basis: See FAA Type Certificate Data Sheet No. A22CE

#### 4. Airworthiness Requirements for Citation and Citation I

(1) Part 25 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 25-1 through 25-17;

(a) Additions:  
FAR §§ 25.934 and 25.1091(d)(2) as amended by Amendments 25-1 through 25-23; § 25.1387 as



amended by Amendments 25-1 through 25-30; §§ 25.1385 and 25.1303(a)(2) as amended by Amendments 25-1 through 25-38

- (2) FAR Part 36 effective December 1, 1969.
- (3) FAR § 25.801 ditching not complied with.
- (4) Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

#### 5. Special Conditions for Citation and Citation I

- (a) 25-25-CE-4, additional requirements for systems, airframe, flight and propulsion. See note 5.
- (b) (b) 25-674-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 16, 2017. See the applicability section of this special condition for more information on which design changes must meet it.

#### 6. Exemptions:

Exemption number 1435 granted. Model 500 exempt from requirements of FAR § 25.1378(a) for location of position light on vertical tail. This exemption was deleted from certification basis by addition of FAR § 25.1387 as amended by Amendments 25-1 through 25-30.

#### 7. (Reserved)

#### 8. Equivalent Safety Findings for Citation and Citation I

- (a) FAR § 25.807(d), Emergency exits ditching;
- (b) FAR § 25.1199(b) and (c), Fire Bottle Pressure Relief Valve;
- (c) FAR § 25.1439(b)(2)(ii), Protective Eye Equipment;
- (d) FAR § 25.815, Passenger Cabin Aisle Width;
- (e) FAR § 25.1305(r), Use of N1 for Power Presentation;
- (f) FAR § 25.773(b)(2), Use of clear vision area of windshield;
- (g) FAR § 25.1331(a)(1), Location of pressure gage to indicate adequate power to bank and pitch indicator.

#### 9. Environmental Standards

Noise requirements: ICAO Annex 16, Volume I,  
Emission requirements: ICAO Annex 16, Volume II,



### III. Technical Characteristics and Operational Limitations

1. Type Design Definition: The Model 500 Citation and Citation I are defined by Cessna Airplane Assembly Drawing Number 5500000
2. Description: The Model 500 is a pressurized, low-wing monoplane that is certified for up to 9 occupants including a crew of two.
3. Equipment: The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification.
4. Dimensions
 

Span	47 ft 1 in	(14.35 m)
Length	43 ft 8 in	(13.35 m)
Height	14 ft 4 in	(4.39 m)
Wing Area	278.5 ft <sup>2</sup>	(25.80 m <sup>2</sup> )
5. Engines: Two Pratt & Whitney of Canada, Ltd. JT15D-1, JT15D-1A or JT15D-1B turbopfans used in any combination (see Note 1 and Note 2).

Variant of Model 500		Citation & Citation I	Citation & Citation I	Citation & Citation I
Engines		Two Pratt & Whitney of Canada, Inc. JT15D-1 turbopfans	Two Pratt & Whitney of Canada, Inc. JT15D-1A turbopfans	Two Pratt & Whitney of Canada, Inc. JT15D-1B turbopfans
Engine Limits Static thrust, standard day, sea level	Takeoff (5 min., Normal All Engines Operating)	2200 lbs (997 kg)	2200 lbs. (997 kg)	2200 lbs. (997 kg)
	Maximum continuous	2090 lbs (948 kg)	2090lbs (948 kg)	2090 lbs. (948 kg)
Engine Limits Maximum permissible engine rotor operating speeds	N1 (Fan)	99%	102.1%	103.4%
		15,840 rpm	16,336 rpm	16,540 rpm
	N2 (Gas Gen.)	95%	95%	95%
		31,120 rpm	31,120 rpm	31,120 rpm
Engine Limits Maximum permissible interturbine gas temperatures	Takeoff	700°C	700°C	700°C
	Max. continuous	680°C	680°C	680°C
	Starting	500°C	500°C	500°C
	Transient	720°C (for 2 seconds)	720°C (for 2 seconds)	700°C (for 2 seconds)

#### 6. (Reserved)



7. (Reserved)

8. Fluids

- 8.1 Fuel: Jet A, Jet A-1, Jet B, JP-4, JP-5 or JP-8. For required use of anti-icing additives and emergency use of aviation gasoline, refer to the FAA Approved Airplane Flight Manual.
- 8.2 Oil: Exxon Turbo Oil 2380, BP Turbo Oil 2380, Aero Shell Turbine 500, Royco Turbine Oil 500, Mobil Jet Oil II, Castrol 5000, Aero Shell Turbine Oil 560, Royco Turbine Oil 560, Mobil Jet Oil 254
- 8.3 Coolant: Not applicable.

9. Fluid capacities:

- 9.1 Fuel (Gallons/Liters): Two wing tanks:  
Total 276/1,045 each; usable 268/1,014 each (S/N 500-0001 through 500-0040)  
Total 277/1,049 each; usable 272/1,030 each (S/N 500-0041 through 500-0213)  
Total 287/1,086 each; usable 282/1,067 each (S/N 500-0214 through 500-0689)  
ARM = +256.0 in.  
See NOTE 7 for data on unusable fuel

- 9.2 Oil (Quarts/Liters): Two engine mounted tanks:  
JT15D -1 Engine Total 8.9/8.4 each; usable 5.0/4.7 each  
JT15D-1A Engine Total 8.6/8.1 each; usable 5.0/4.7 each  
ARM - +322.0 in.

10. Airspeed Limits (CAS)

		S/N 500-0001 through 500-0070	S/N 500-0071 through 500-0302	S/N 500-0303 through 500-0349	S/N 500-0350 through 500-0689
V <sub>MO</sub> (Maximum operating)  *See NOTE 3 for restricted V <sub>MO</sub> for optional fuel weight configuration	Sea level to 14000 ft (4267.2 m)	260 knots	260 knots	260 knots	260 knots
	14000 ft (4267.2 m) to 26000 ft (7924.8 m)	287 knots*	287 knots*	287 knots*	-
	14000 ft (4267.2 m) to 28000 ft (8534.4 m)	-	-	-	275 knots*
	M <sub>MO</sub> Above 26000 ft (7924.8 m)	0.70 Mach	0.70 Mach	0.70 Mach	-
	M <sub>MO</sub> Above 28000 ft (8534.4 m)	-	-	-	0.70 Mach
V <sub>A</sub> (Sea level) at MTOW; see AFM for		178 knots	182 knots	185 knots	182 knots



		S/N 500-0001 through 500-0070	S/N 500-0071 through 500-0302	S/N 500-0303 through 500-0349	S/N 500-0350 through 500-0689
variations with weight and altitude					
$V_B$ (Speed for maximum gust intensity)		210 knots	210 knots	210 knots	210 knots
$V_{FE}$ (Flaps extended)	40° (Landing)	174 knots	174 knots	174 knots	174 knots
	15° (Takeoff and approach)	200 knots	200 knots	200 knots	200 knots
$V_{MCA}$ (Minimum control speed Air)		Below stall speed for all weights			
$V_{MCG}$ (Minimum control speed Ground)		55 knots	55 knots	55 knots	55 knots
$V_{LO}$ (Landing gear operating)		174 knots	174 knots	174 knots	174 knots
$V_{LE}$ (Landing gear extended)		174 knots	174 knots	174 knots	174 knots
$V_{SB}$ (Speed brakes extended)		Any speed with or without flaps			

\*See NOTE 3 for restricted  $V_{MO}$  for optional fuel weight configuration.

## 11. Flight Envelope:

The flight envelope is defined in the applicable EASA approved Aircraft Flight Manuals (AFM); the AFMs are referenced in chapter IV.1.

### Maximum Operating Altitude

35,000 ft.(10,668 m) (S/N 500-0001 through 0213) (See NOTE 8)  
41,000 ft.(12,497 m) (S/N 500-0214 through 500-0689)

## 12. Operating Limitations

12.1 (Reserved)

12.2 (Reserved)

Control surface movement removed. See approved manual.



### 13. Maximum Certified Weights

	S/N 500-0001 through 500-0070 (see Note 4)	S/N 500-0071 through 500-0302 (see Note 4)	S/N 500-0303 through 500-0689
Takeoff	10,850 lb. / 4,921 kg	11,500 lb. / 5,216 kg	11,850 lb. / 5,376 kg
Landing	10,400 lb. / 4,717 kg	11,000 lb. / 4,990 kg	11,350 lb. / 5,148 kg
Zero fuel*	8,400 lb. / 3,810 kg	8,400 lb. / 3,810 kg	8,400 lb. / 3,810 kg
Ramp	11,000 lb. / 4,490 kg	11,650 lb. / 5,284 kg	12,000 lb. / 5,443 kg

\*See NOTE 3 for optional zero fuel weights.

14. (Reserved) C.G. Range section removed. See approved manual.
15. Datum 94.0 in. forward of the front face of the forward pressure bulkhead
16. Mean Aerodynamic Cord (MAC): 79.61 in. (L.E. of MAC at Sta. +232.04)  
Note this is reference MAC for basic wing without tip.
17. Levelling means: Seat Rails
18. Minimum Flight Crew: For all flights: 2 persons (pilot and co-pilot)
19. Maximum Seating Capacity: Up to Nine (Two pilots and up to 7 passengers)  
See Note 6
20. Baggage / Cargo Compartment:
- |                  |                                 |
|------------------|---------------------------------|
| Nose Compartment | 350 lb./159 kg (at Sta. + 74.0) |
| Aft Cabin        | 650 lb./295 kg (at Sta. +286.3) |
21. (Reserved) Wheels and Tyres section removed. See approved manual.
22. (Reserved)

## **IV Operation and Service Instructions**

- Airplane Flight Manual (AFM) Airplanes must be operated according to the FAA Approved Airplane Flight Manual, part number 500FM057 (or later approved revision for serials 0001 and On.
- Airplane Maintenance Manual Model 500 Maintenance Manual, 500MM30 or later approved revision. See Chapter 4, "Airworthiness Limitations" for inspections, mandatory retirement life information and other requirements for continued airworthiness. "Airworthiness Limitations" may not be changed without the approval of the EASA.





**V. Notes**

NOTE 1. Per Cessna Service Bulletin SB72-2, a JT15D-1A or JT15D-1B used in combination with a JT15D-1 is required to be operated to JT15D-1 engine limitations.

NOTE 2 Per Cessna Service Bulletin SB72-2, a JT15D-1B used in combination with a JT15D-1A is required to be operated to JT15D engine limitations.

NOTE 3. Model 500 S/N 500-0001 through 500-0349 conforming to ECR 500-1048 or SB34-15 are eligible for 9,500 lb. zero fuel weight with  $V_{MO}$  reduced to 275 KCAS from 14,000 ft. to 28,000 ft. Aircraft conforming to ECR EC01164 or SB34-23 are eligible for 10,500 lb. zero fuel weight with  $V_{MO}$  reduced to 260 KCAS from 14,000 ft. to 30,500 ft.

Model 500 S/N 500-0350 and up conforming to ECR EC04139 or SB34-15 are eligible for 9,500 lb. zero fuel weight with  $V_{MO}$  reduced to 260 KCAS from 14,000 ft. to 30,500 ft.

NOTE 4. Model 500 S/N 500-0001 through 500-0070 are eligible for the Maximum Weights and C.G. Range applicable to S/N 500-0071 and up when modified in accordance with Cessna Service Bulletin SB32-1.

Model 500 S/N 500-0001 through 500-0302 are eligible for Maximum Weights and C.G. Range applicable to S/N 500-0303 and up when modified in accordance with the following Cessna Service Bulletins:

- S/N 500-0001 through 500-0040, SB 30-1, SB32-1, SB32-23
- S/N 500-0041 through 500-0070, SB32-1, SB32-23
- S/N 500-0071 through 500-0302, SB32-23

NOTE 5. Special Condition number 25-25-CE-4 applies to the following: (1) Operation without normal electrical power; (2) Limit Maneuvering load factor, in lieu of § 25.337(b); (3) Turbulence criteria; (4) Vibration and buffeting, in lieu of § 25.251(c); (5) Engine exhaust system drains; (6) Engine bleed air system; (7) Engine inflight restart capability; (8) Engine thrust control; (9) Powerplant installation fault analysis; (10) Turbine engine powerplant installation, in lieu of § 25.903(d); (11) Engine ignition system; and (12) Powerplant shutoff means, in addition to § 25.1189.

NOTE 6. Model 500 S/N 500-0275 and up conforming to ECR EC02446 and aircraft S/N 500-0001 and up modified in accordance with Cessna Service Bulletin SB25-17 are eligible to carry a maximum of 9 people.

NOTE 7. 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:

Unusable fuel	96.0 lb. at +247.0 in.	(500, S/N 500-0001 through 500-0040)
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	200.5 lb. at 247.0 in.	(500, S/N 500-0001 through 500-0040 incorporating SB500-28-10)
	58.0 lb. at +247.0 in.	(500, S/N 500-0041 through 500-0689)
	138.4 lb. at +247.0 in	(500, S/N 500-0041 through 500-0689 incorporating SB500-28-10)
Full oil	34.3 lb. at +322.0 in.	(500 with JT15D-1 engine)
	33.1 lb. at +322.0 in.	(500 with JT15D-1A engine)
Hydraulic fluid	27.5 lb. at +284.0 in.	(500)
Anti-Ice fluid (Windshield)	3.4 lb. at +91.4 in.	(500)

NOTE 8. Model 500 S/N 500-0001 through 500-0213 are eligible for operation at 41,000 ft. when modified in accordance with Cessna Service Bulletin SB21-9.

NOTE 9. All Model 500 replacement seats (crew and passenger), although they may comply with TSO C39, must also be demonstrated to comply with FAR 25.785.

NOTE 10. Certain Models meet the initial airworthiness requirements for operation in Reduced Vertical Separation Minimum (RVSM) airspace.

Model 500 Citation/Citation I	S/N 500-0275 through 500-0689 that have accomplished Cessna Service Bulletin SB500-34-65.
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## **SECTION 2: Model 550, Variants Citation II and Bravo**

### **I. General**

1. Model/Variant
  - 1.1 Model: 550
  - 1.2 Variant: Citation II (S/N 550-0001 through 550-0505 and 550-0550 through 550-0800; See NOTE 10)  
Citation Bravo (S/N 550-0801 and on)
2. Performance Class: A
3. Certifying Authority: Federal Aviation Authority  
Wichita Aircraft Certification Office  
1801 Airport Rd, Room 100  
Wichita, KS 67209  
USA
4. Manufacturer: Textron Aviation Inc.  
P.O. Box 7704  
Wichita, Kansas 67215  
USA
5. FAA Certification Application Date: Original TC application dated 16 July 1968  
TC No. A22CE Issued 9 September 1971
  - 5.1 Citation II 24 March 1978
  - 5.2 Bravo 8 January 1997
6. EASA Validation Application Date: N/A
7. FAA Type Certification Date:
  - 7.1 Citation II 24 March 1978
  - 7.2 Bravo 8 January 1997
8. EASA Type Validation Date:
  - 7.1 Citation II 28 September 2003
  - 7.2 Bravo 28 September 2003

### **II. Certification Basis**

1. Reference Date for determining the Applicable requirements: Same as FAA certification application date
2. FAA Type Certificate Data Sheet No.: A22CE
3. FAA Certification Basis: See FAA Type Certificate Data Sheet No. A22CE



#### 4. Airworthiness Requirements:

##### 4.1 Airworthiness Requirements for Citation II S/N 550-001 through 550-0505 and 550-0550 through 550-0800.

- (1) Part 25 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 25-1 through 25-17;
- (a) Additions:  
FAR §§ 25.934 and 25.1091(d)(2) as amended by Amendments 25-1 through 25-23; § 25.1401 as amended by Amendments 25-1 through 25-27; § 25.1387 as amended by Amendments 25-1 through 25-30; and §§ 25.1303(a)(2) and 25.1385(c) as amended by Amendments 25-1 through 25-38.
- (b) Addition for the Bendix EFS-10, Sperry EDZ-600, Sperry EDZ-601, and Sperry EDZ-603 Electronic Flight Instrument Systems only:  
  
FAR §§ 25.1301, 25.1303(b), 25.1322 as amended by Amendments 25-1 through 25-38; and §§ 25.1309, 25.1321(a), (b), (d), and (e), 25.1331, 25.1333, 25.1335 as amended by Amendments 25-1 through 25-41.
- (2) FAR Part 36 effective December 1, 1969.
- (3) SFAR 27, as amended by Amendments 27-1 and 27-2, fuel venting.

##### 4.2 Airworthiness Requirements for Bravo S/N 550-0801 and on.

- (1) Part 25 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 25-1 through 25-17;
- (a) Additions:  
FAR § 25.1401, as amended by Amendments 25-1 through 25-27; § 25.1387, as amended by Amendments 25-1 through 25-30; §§ 25.1303(a)(2) and 25.1385(c), as amended by Amendments 25-1 through 25-38; § 25.305, as amended by Amendments 25-1 through 25-54; §§ 25.125, 25.251, 25.337, 25.493, 25.731, 25.733, 25.735, 25.867, 25.869, 25.901, 25.903, 25.933, 25.934, 25.939, 25.943, 25.951, 25.952, 25.1001,



- 25.1041, 25.1043, 25.1045, 25.1091, 25.1093, 25.1103, 25.1121, 25.1123, 25.1143, 25.1163, 25.1165, 25.1181, 25.1183, 25.1185, 25.1189, 25.1195, 25.1197, 25.1203, 25.1205 (revoked), 25.1207, 25.1305, 25.1316, 25.1322, 25.1326, 25.1337, 25.1351, 25.1438, 25.1521, 25.1549 and 25.1551, as amended by 25-1 through 25-82.
- (b) Additions for the Electronic Flight Instrument Systems only: FAR §§ 25.1301, and 25.1303(b) as amended by Amendments 25-1 through 25-38; § 25.1309, 25.1321(a), (b), (d), and (e), 25.1331, 25.1333, and 25.1335 as amended by Amendments 25-1 through 25-41.
- (c) Additions for airplanes approved for High Altitude Operation (45,000 feet/13,716 m) only:
1. FAR §§ 25.571(b)(5) and 25.1529 as amended by Amendments 25-1 through 25-82. Compliance with the requirements of § 25.571(b)(5) is limited to the fuselage. The inspection intervals for compliance with § 25.1529 are to address a crack growth propagating for a period encompassing four normal inspection intervals. See Note 1.
  2. FAR §§ 25.365, 25.831, 25.841, and 25.1447 as amended by Amendments 25-1 through 25-87.
- (2) FAR Part 36 effective December 1, 1969, as amended by Amendments 36-1 through 36-21.
- (3) FAR Part 34 effective September 10, 1990, as amended by Amendment 34-1, Fuel Venting and Exhaust Emission Requirements for Turbine Engine Powered Airplanes.

## 5. Special Conditions:

### 5.1 Special Conditions Citation II:

25-25-CE-4, additional requirements for systems, airframe, flight and propulsion. See note 1.  
25-674-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 16, 2017. See the applicability section of this special condition for more information on which design changes must meet it.

### 5.2 Special Conditions Bravo:

25-ANM-120, additional requirements for High Intensity Radiated Fields (HIRF).  
25-674-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 16, 2017. See the applicability section of this special condition for more



information on which design changes must meet it.

6. Exemptions: Not Applicable

7. Equivalent Level of Safety Findings:

7.1 Citation II

- (a) FAR § 25.807(d), Emergency exits ditching;
- (b) FAR § 25.1199(b) and (c), Fire Bottle Pressure Relief Valve;
- (c) FAR § 25.1439(b)(2)(ii), Protective Eye Equipment;
- (d) FAR § 25.815, Passenger Cabin Aisle Width;
- (e) FAR § 25.1305(r), Use of N<sub>1</sub> for Power Presentation;
- (f) FAR § 25.773(b)(2), Use of clear vision area of windshield
- (g) FAR § 25.1331(a)(1), Location of pressure gage to indicate adequate power to bank and pitch indicator.
- (h) FAR § 25.1549(a) and (b), N<sub>2</sub> Digital Indicator Markings.
- (i) FAR § 25.813(e), Frangible door for serial No: 550-0550 through 550-0800.

FAR § 25.801 ditching not complied with.

Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

Serial Nos. Eligible: 550-0001 through 550-0505 and 550-0550 through 550-0800 (See Note 2)

7.2 Bravo

- (a) FAR § 25.807(d), Emergency exits ditching;
- (b) FAR § 25.815, Passenger Cabin Aisle Width;
- (c) FAR § 25.773(b)(2), Use of clear vision area of windshield; and
- (d) FAR § 25.1549(a) and (b), N<sub>2</sub> Digital Indicator Markings.
- (e) FAR § 25.813(e) Frangible door.

FAR § 25.801 ditching not complied with.

Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

### **III. Technical Characteristics and Operational Limitations**

1. Type Design Definition: The Model 550 Citation II and Bravo are defined by Cessna airplane Assembly Drawing Number 6500000

2. Description: The Model 550 Citation II is a pressurized, low-wing monoplane that is certified for up to 13 persons including two pilots.



The Model 550 Citation Bravo is a pressurized, low-wing monoplane that is certified for up to 10 persons including two pilots.

3. Equipment:

The equipment required by the applicable requirements shall be installed.

4. Dimensions:

Span	52 ft 2 in	(15.9 m)
Length	47 ft 2 in	(14.39 m)
Height	15 ft 0 in	(4.57 m)
Wing Area	322.8 sq ft	(30.0 sq m)

5. Engines:

Variant of Model 550		Citation II	Bravo
Engines		Two Pratt & Whitney of Canada, Inc. JT15D-4 turbofans	Two Pratt & Whitney of Canada, Inc. PW530A turbofans
Engine Limits Static thrust, standard day, sea level	Takeoff (5 min., Normal All Engines Operating)	2500 lbs (1134 kg)	2887 lbs. (1309 kg)
	Maximum continuous	2375 lbs (1077 kg)	2843lbs (1290 kg)
Engine Limits Maximum permissible engine rotor operating speeds	N1 (Fan)	104%	100%
		16,540 rpm	15,750 rpm
	N2 (Gas Gen.)	96%	100%
		31,450 rpm	32,150 rpm
Engine Limits Maximum permissible interturbine gas temperatures	Takeoff	700°C	700°C
	Max. continuous	680°C	700°C
	Starting	500°C	690°C
	Transient	720°C (for 2 seconds)	740°C (for 20 seconds)

6. (Reserved)

7. (Reserved)

8. Fluids



8.1 Fuel:

Citation II	Jet A, Jet A-1, Jet B, JP-4, JP-5, or JP-8. For required use of anti-icing additives and emergency use of aviation gasoline, refer to the FAA Approved Airplane Flight Manual.
Bravo	Jet A, Jet A-1, Jet B, JP-5, or JP-8. For use of anti-icing additives, refer to the FAA Approved Airplane Flight Manual.

8.2. Oil:

Citation II	Exxon Turbo Oil 2380, BP Air Turbo Oil 2380, Castrol 5000, Aero shell Turbine Oil 500, Royco Turbine Oil 500, Aero Shell Turbine Oil 560, Royco Turbine Oil 560, Mobil Jet Oil 254, Mobil Jet Oil II
Bravo	Refer to the Pratt and Whitney Maintenance Manual, P/N 30J1112, Chapter 72, for approved oil types.

8.3. Coolant: Not applicable.

9. Fluid capacities:

9.1 Fuel: (Gal./Liters)

Citation II:

Two wing tanks: Total 376/1,423 each; usable 371/1,404 each  
ARM = +285.9 in.  
See NOTE 4 for data on unusable fuel

Citation Bravo:

Two wing tanks: Total 363.5/1,370 each;  
usable 360/1,362.7 each  
ARM 287.0 in.  
See NOTE 3 for data on unusable fuel

9.2 Oil: (Quarts/Liters)

Citation II

Two engine mounted tanks: Total 9.0/8.5 each; usable 5.7/5.4 each, ARM = +367.0 in.

Citation Bravo:

Two engine mounted tanks: Total 5.0/4.7 each;  
usable 1.9/1.8 each, ARM 366.85 in

10. Airplane Limit Speeds (CAS)

	Citation II S/N 550-0550 through 550-0800	Citation II S/N 550-0001 through 550-0626	Citation II S/N 550-0627 through 550-0800	Bravo S/N 550-0801 and on
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		Citation II S/N 550-0550 through 550-0800	Citation II S/N 550-0001 through 550-0626	Citation II S/N 550-0627 through 550-0800	Bravo S/N 550-0801 and on
V <sub>MO</sub> (Maximum operating) *See NOTE 3 for restricted V <sub>MO</sub> for optional fuel weight configuration (Citation II)	Sea level to 8000 ft. (2438 m)				260 KCAS (260 KIAS)
	8 000 ft. (2438 m) to 27 900 ft. (8504 m)				275 KCAS (275 KIAS)
	Sea level to 14000 ft. (4267.2 m)	260 knots			
	14 000 ft (4267.2 m) to 28 000 ft (8534.4 m)	275 knots			
	Sea Level to 30 500 ft (9296 m)	260 knots			
M <sub>MO</sub>	Above 27 900 ft (8504 m)				0.70 Mach (0.70 MIAS)
	Above 30,500 ft. (9,296 m)	0.70 Mach		0.70 Mach	
V <sub>A</sub> (Sea level) 14800 lb (6713 kg); see AFM for variations with weight and altitude and optional configurations					190KCAS (190 KIAS)
V <sub>A</sub> (Sea level) 13300 ft (4054 m); see AFM for variations with weight and altitude and optional configurations		186 knots			
V <sub>B</sub> (Speed for maximum gust intensity)		210 knots			210 KCAS (210 KIAS)
V <sub>FE</sub> (Flaps extended)	40° (Landing)	174 knots			174 KCAS (174 KIAS)
	15° (Takeoff and approach)	200 knots			200 KCAS (200 KIAS)
V <sub>MCA</sub> (Minimum control speed Air)		75 knots			79 KCAS (78 KIAS)
V <sub>MCG</sub> (Minimum control speed Ground)		62 knots			92 KCAS (89 KIAS)
V <sub>LO</sub> (Landing gear operating)			174 knots		



	Citation II S/N 550-0550 through 550-0800	Citation II S/N 550-0001 through 550-0626	Citation II S/N 550-0627 through 550-0800	Bravo S/N 550-0801 and on
V <sub>LO</sub> (Landing gear operating extend)			248 knots	250 KCAS 250 KIAS
V <sub>LO</sub> (Landing gear operating retract)			198 knots	200 KCAS (200 KIAS)
V <sub>LE</sub> (Landing gear extended)		174 knots	260 knots	260 KCAS (260 KIAS)
V <sub>S</sub> (Speed brakes extended)	Any speed with or without flaps			

See NOTE 5 for increased V<sub>LO</sub> and V<sub>LE</sub> for Citation II S/N 550-0001 through 550-0626.

## 11. Maximum Operating Altitude

### 11.1 Citation II

43,000 ft. (13,106 m)

### 11.2 Bravo

43,000 ft. (13,106 m) (S/N 550-0801 through 550-0820)  
(S/N 550-0822 through 550-0823)

45,000 ft. (13,716 m) (S/N 550-0821, 550-0824 and on)  
See NOTE 2 for S/N 550-0801  
through 550-0820 & 550-0822  
through 550-0823

## 12. (Reserved)

## 13 Maximum Certified Weights in lbs (kg)

### 13.1 Citation II

	S/N 550-0001 Through 550-0626	S/N 550-0627 Through 550-0800
Takeoff	13,300 lb. (6,033 kg)	14,100 lb. (6,396 kg)
Landing	12,700 lb. (5,761 kg)	13,500 lb. (6,124 kg)
Zero fuel*	9,500 lb. (4,309 kg)	11,000 lb. (4,990 kg)
Ramp	13,500 lb. (6,124 kg)	14,300 lb. (6,486 kg)

\*See NOTE 3 for optional zero fuel weight (S/N 550-0001 through 550-0549)

### 13.2 Bravo

Takeoff 14,800 lb. (6,713 kg)



Landing	13,500 lb. (6,123 kg)
Zero fuel	11,300 lb. (5,126 kg)
Ramp	15,000 lb. (6,804 kg)

14. (Reserved) C.G. Range section removed. See approved manual.
15. Datum
- 15.1 Citation II 94.0 inches. forward of the front face of the forward pressure bulkhead.
- 15.2 Bravo 93.7 inches forward of the nose jack point.
16. MAC
- 16.1 Citation II 80.98 in. (L.E. of MAC at Sta. +261.56)  
Note: This is reference MAC for basic wing without tip.
- 16.2 Bravo 80.98 in. (Leading edge of MAC 261.56 in. aft of datum)
17. Levelling means
- 17.1 Citation II Seat Rails
- 17.2 Bravo Lower seat rail RBL 9.0 in. starting at 206.0 in aft of datum.
18. Minimum Flight Crew For all flights: 2 persons (pilot and co-pilot)
19. Maximum Passenger Seating Capacity:
- 19.1 Citation II Up to 13 (2 Pilots, up to 11 Passengers)  
See NOTE 6
- 19.2 Bravo Up to 13 (2 Pilots, up to 11 Passengers)
20. (Reserved)
21. Baggage / Cargo Compartment
- 21.1 Citation II
- |                  |                                 |             |
|------------------|---------------------------------|-------------|
| Nose compartment | 350 lb. (159 kg) at Sta.        | + 74.0      |
| Aft cabin        | 400 lb. (181 kg) at Sta.        | + 321.0     |
|                  | 200 lb. / 91 kg at Sta.         | + 338.0     |
| Tailcone         | 200 lb. (91 kg) at Sta.         | + 442.0     |
|                  | (S/N 550-0001 through 550-0626) |             |
|                  | 200 lb. (91 kg) at Sta.         | + 431.0 and |
|                  | 300 lb. (136 kg) at Sta.        | + 462.0     |
|                  | (S/N 550-0627 through 550-0800) |             |



21.2 Bravo

Nose compartment (w/std equip.)	350 lb. (159 kg) at Sta.	+ 74.0
Aft cabin	600 lb. (272 kg) at Sta.	+ 321.0
Tailcone	300 lb. (136 kg) at Sta.	+ 414.0 and
	200 lb. (91 kg) at Sta.	+ 442.0

22. (Reserved)

Wheels and Tyres section removed. See approved manual.

**IV                    Operation and Service Instructions**

Citation II

Airplane Flight Manual (AFM)

Airplanes must be operated according to the FAA Approved Airplane Flight Manual (AFM), part number 55FM41(or later approved revision for Serials -0001 through -0505 and 0550 through 0800)

Airplane Maintenance Manual

Model 550 Maintenance Manual, 55MM23 or later approved revision. See Chapter 4, "Airworthiness Limitations" for inspections, mandatory retirement life information and other requirements for continued airworthiness. "Airworthiness Limitations" may not be changed without the approval of the EASA.

Bravo

Airplane Flight Manual (AFM)

Airplanes must be operated according to the FAA Approved Airplane Flight Manual (AFM), part number 55BFM-06 (or later approved revision for Serials 550-0801 and on.)

Airplane Maintenance Manual

Model 550 Encore Maintenance Manual, 55BMM-06 or later approved revision. See Chapter 4, "Airworthiness Limitations" for inspections, mandatory retirement life information and other requirements for continued airworthiness. "Airworthiness Limitations" may not be changed without the approval of the EASA.

**V.                    Notes**

Model 550 Citation II

NOTE 1.            Model 550 (S/N 550-0001 through 550-0505 and 550-0550 through 550-0800). Special Condition number 25-25-CE-4 applies to the following: (1) Operation without normal electrical power; (2) Limit Maneuvering load factor, in lieu of § 25.337(b); (3) Turbulence criteria; (4) Vibration and buffeting, in lieu of § 25.251(c); (5) Engine exhaust system drains; (6) Engine bleed air system; (7) Engine inflight restart capability; (8) Engine thrust control; (9) Powerplant installation fault analysis; (10) Turbine engine powerplant installation, in lieu of §



25.903(d); (11) Engine ignition system; and (12) Powerplant shutoff means, in addition to § 25.1189.

NOTE 2. For the Model 550, the unit number and the airplane serial number may not coincide until unit number 439 (S/N 550-0439). Contact Cessna Customer Service regarding Model 550 unit number and airplane serial number effectivity.

NOTE 3. Model 550 S/N 550-0001 through 550-0549 conforming to ECR EC04574 or SB550-34-4 are eligible for 11,000 lb. zero fuel weight with  $V_{MO}$  reduced to 260 KCAS from 14,000 ft. to 30,500 ft. 11,000 lb. zero fuel weight provision is standard at S/N 550-0550 through 550-0800.

NOTE 4. 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:

Unusable fuel	52.8 lb. at +298.4 in.	(550, S/N 550-0001 through 550-0800)
Full oil	34.7 lb. at +367.0 in.	(550, S/N 550-0001 through 550-0800)
Hyd. Fluid	16.3 lb. at +341.8 in.	(550, S/N 550-0001 through 550-0733)
Anti-Ice fluid (Windshield)	3.4 lb. at +91.4 in.	(550, S/N 550-0001 through 550-0800)

NOTE 5. Model 550 S/N 550-0001 through 550-0505, and S/N 550-0550 through 550-0626 when modified in accordance with Cessna Service Bulletin SB550-32-14 are eligible to operate at the following  $V_{LO}$  and  $V_{LE}$ :

	Model 550 - SB550-32-14	
	11,000 lb. ZFW	9,500 lb. ZFW
$V_{LO}$ (Landing gear operating extend)	248 KCAS	248 KCAS
$V_{LO}$ (Landing gear operating retract)	198 KCAS	198 KCAS
$V_{LE}$ (Landing gear extended)	260 KCAS	275 KCAS

NOTE 6. Model 550 S/N 550-0021 through 550-0505 and S/N 550-0550 through 550-0800 conforming to ECR EC08691 are eligible to carry a maximum of 13 people.

NOTE 7. All Model 550 replacement seats (crew and passenger), although they may comply with TSO C39, must also be demonstrated to comply with FAR 25.785.

NOTE 8. Certain Models meet the initial airworthiness requirements for operation in Reduced Vertical Separation Minimum (RVSM) airspace.



Model 550 Citation II	S/N 550-0002 through 550-0800 that have accomplished Cessna Service Bulletin SB550-34-79.
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NOTE 9. For the Model 550, the unit number and the airplane serial number may not coincide until unit number 0439 (S/N 550-0439). Contact Textron Aviation Customer Service regarding Model 550 unit number and airplane serial number effectivity.

Model 550 Bravo

NOTE 1. Certain models have been approved for high altitude operations (altitudes above 41,000 feet), either by Special Conditions or compliance with certain Part 25 sections. Any modifications to the pressure vessel must be approved in accordance with the requirements as shown in the appropriate certification basis. This includes modifications which could result in a pressure vessel opening, either through crack-growth or antenna loss, greater than the specified areas as follows:

Model 550 (Bravo) S/N 550-0801 and on:	4.00 sq. in.
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NOTE 2. Model 550 (Bravo) increase the maximum operating altitude from 41,000 feet to 45,000 feet when modified in accordance with the following Cessna Service Bulletins:  
S/N 550-0801 through 550-0808, Cessna Service Bulletin SB550-03-03;  
S/N 550-0809 through 550-0820, and S/N 550-0822 through 550-0823,  
Cessna Service Bulletin SB550-34-64.

NOTE 3. 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:

Unusable fuel	47.2 lb. at +281.7 in.	(550 Bravo, S/N 550-0801 and on)
Full oil	19.3 lb. at +366.9 in.	(550 Bravo, S/N 550-0801 and on)
Hyd Fluid	17.8 lb. at +342.7 in.	(550 Bravo, S/N 550-0801 and on)
Anti-Ice fluid (Windshield)	3.4 lb. at +91.4 in.	(550 Bravo, S/N 550-0801 and on)

NOTE 4. All Model 550 replacement seats (crew and passenger), although they may comply with TSO C39, must also be demonstrated to comply with FAR 25.785.

NOTE 5. Certain Models meet the initial airworthiness requirements for operation in Reduced Vertical Separation Minimum (RVSM) airspace.

Model 550 Citation Bravo	S/N 550-0801 through 550-0872 that have accomplished Cessna Service Bulletin SB550-34-70, and S/ N 550-0873 and on.
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### **SECTION 3: Model S550 Variant Citation S/II**

#### **I. General**

1. Model/Variants
  - 1.1 Model: S550
  - 1.2 Variant: Citation S/II
2. Performance Class: A
3. Certifying Authority: Federal Aviation Authority  
Wichita Aircraft Certification Office  
1801 Airport Rd, Room 100  
Wichita, KS 67209  
USA
4. Manufacturer: Textron Aviation Inc.  
One Cessna Boulevard  
Wichita, Kansas 67215  
USA
5. (Reserved)
6. EASA Application Date: N/A
7. FAA Type Certification Date: 15 August 1984
8. Type Certification Date: 28 September 2003

#### **II. Certification Basis**

1. Reference Date for determining the Applicable requirements: Same as FAA certification application date
2. (Reserved)
3. (Reserved)
4. Certification Basis:
  - (1) Part 25 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 25-1 through 25-17;
    - (a) Additions:  
  
FAR §§ 25.251(e), 25.934 and 25.1091(d)(2) as amended by Amendments 25-1 through 25-23; § 25.1401 as amended by Amendments 25-1 through 25-27; § 25.1387 as amended by Amendments 25-1 through 25-30; §§ 25.787, 25.789, 25.791, 25.853, 25.855, 25.857, 25.1359 as amended by Amendments 25-1



through 25-32; §§ 25.1303(a)(2) and 25.1385(c) as amended by Amendments 25-1 through 25-38;

(b) Addition for the Bendix EFS-10, Sperry EDZ-600, Sperry EDZ-601, and Sperry EDZ-603

Electronic Flight Instrument Systems only:

FAR §§ 25.1301, 25.1303(b), 25.1322 as amended by Amendments 25-1 through 25-38; and §§ 25.1309, 25.1321(a), (b), (d), and (e), 25.1331, 25.1333, 25.1335 as amended by Amendments 25-1 through 25-41.

- (2) FAR Part 36 effective December 1, 1969, as amended by Amendments 36-1 through 36-12.
- (3) SFAR 27, as amended by Amendments 27-1 and 27-2, fuel venting.

5. Special Conditions:

25-25-CE-4, additional requirements for systems, airframe, flight and propulsion.

See note 1.

25-674-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 16, 2017. See the applicability section of this special condition for more information on which design changes must meet it.

6. Exemptions:

Not Applicable

7. Equivalent Level of Safety Findings:

- (a) FAR § 25.807(d), Emergency exits ditching;
- (b) FAR § 25.1199(b) and (c), Fire Bottle Pressure Relief Valve;
- (c) FAR § 25.1439(b)(2)(ii), Protective Eye Equipment;
- (d) FAR § 25.815, Passenger Cabin Aisle Width;
- (e) FAR § 25.1305(r), Use of N<sub>1</sub> for Power Presentation;
- (f) FAR § 25.773(b)(2), Use of clear vision area of windshield; and
- (g) FAR § 25.1331(a)(1), Location of pressure gage to indicate adequate power to bank and pitch indicator.
- (h) FAR § 25.1549(a) and (b), N<sub>2</sub> Digital Indicator Markings.
- (i) FAR § 25.813(e), Frangible door.

FAR § 25.801 ditching not complied with.

Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

Serial No's. Eligible: S550-0001 through S550-0160





### **III. Technical Characteristics and Operational Limitations**

1. Type Design Definition:
 

The Model S550 Citation S/II is defined by Cessna Airplane Assembly Drawing Number 6500000.
2. Description:
 

The Model S550 is a pressurized, low-wing monoplane that is certified for up to 13 persons including a crew of two.
3. Equipment:
 

The equipment required by the applicable requirements shall be installed.
4. Dimensions:
 

Span	52 ft 3 in (15.91 m)
Length	47 ft 3 in (14.39 m)
Height	15 ft 0 in (4.57 m)
Wing Area	342.6 sq ft (31.8 sq m)
5. Engines:
 

Two Pratt and Whitney Canada, Inc. (formerly United Aircraft of Canada Ltd.) JT15D-4B turbofans

Variant of Model 550		Citation S/II
Engines		Two Pratt & Whitney of Canada, Inc. JT15D-4B turbofans
Engine Limits, Static thrust, standard day, sea level	Takeoff (5 min., Normal All Engines Operating)	2500 lb (1134 kg)
	Maximum continuous	2375 lb (1077 kg)
Engine Limits, Maximum permissible engine rotor operating speeds	N1 (Fan)	106 %
		16 854 r.p.m.
	N2 (Gas Gen.)	97 %
		31 777 r.p.m.
Engine Limits, Maximum permissible interturbine gas temperatures	Takeoff	710° C
	Max. continuous	690° C
	Starting	500° C



	Transient (2 sec)	730° C
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6. (Reserved)

7. (Reserved)

8. Fluids

8.1 Fuel: Jet A, Jet A-1, Jet B, JP-4, JP-5 or JP-8. For required use of anti-icing additives and emergency use of aviation gasoline, refer to the FAA Approved Airplane Flight Manual.

8.2. Oil: EXXON 2380, Mobil Jet Oil II, Castol 5000, Aeroshell Turbine Oil 500, Mobil Jet Oil 254, Royco 500

8.3. Coolant: Not applicable.

9. Fluid capacities:

9.1 Fuel (Gal/Liters): Two wing tanks: Total 437/1654 each; usable 431.5/1633.4 each  
ARM = +282.7 in.  
See NOTE 3 for data on unusable fuel

9.2 Oil (Quarts/Liters): Two engine mounted tanks: Total 9.0/8.5 each; usable 5.7/5.4 each  
ARM = +367.0 in.

Surface Anti-Ice Fluid

Capacity: 65.5 lb., ARM = +62.9 in.  
Surface anti-ice fluids must meet British Deicing Fluid Specification DTD 406B (NATO Symbol S-745). Fluids meeting this specification are: Canyon Industries AL-5, Aero Shell Compound 07, and BP Aero Deicing 2

Windshield Anti-Ice Fluid

Capacity: 3.4 lb., ARM = +91.4 in.; TT-I-735 Isopropyl alcohol Approved

10. Airplane Limit Speeds (KCAS)

		Citation S/II
V <sub>MO</sub> (Maximum Operating) *See NOTE 3 for restricted V <sub>MO</sub> for optional fuel weight configuration	Sea level to 8000 ft (2438 m)	260 KCAS (261 KIAS)
	8000 ft (2438 m) to 29315 ft (8935 m)	275 KCAS (276 KIAS)
M <sub>MO</sub>	Above 29315 ft (8935 m)	0.72 Mach (0.72 MIAS)
V <sub>A</sub> (Sea level)	at 14700 lb. See AFM for variations with weight and altitude	192 KCAS (192 KIAS)



V <sub>FE</sub> (Flaps extended)	35° (Landing)	174 KCAS (172 KIAS)
	20° (Takeoff and approach)	200 KCAS (200 KIAS)
V <sub>MCA</sub> (Minimum control speed) Air		84 KCAS (83 KIAS)
V <sub>MCG</sub> (Minimum control speed) Ground		75 KCAS (73 KIAS)
V <sub>LO</sub> (Landing gear operating)		174 KCAS (172 KIAS)
V <sub>LE</sub> (Landing gear extended)		174 KCAS (172 KIAS)
V <sub>SB</sub> (Speed brakes extended)		Any speed with or without flaps

See NOTE 2 for increased V<sub>LO</sub> and V<sub>LE</sub>.

11. Maximum Operating Altitude 43,000 ft. (13,106 m)

## 12. Operating Limitations

12.1 (Reserved)

12.2 (Reserved)

Control surface movement removed. See approved manual.

## 13. Maximum Certified Weights in lbs(kg)

	S/N S550-0001 Through S550-0085	S/N S550-0086 Through S550-0160
Takeoff	14,700 lb. (6,668 kg)	15,100 lb.(6,849 kg)
Landing	14,000 lb. (6,350 kg)	14,400 lb.(6,532 kg)
Zero fuel	11,000 lb. (4,990 kg)	11,200 lb.(5,080 kg)
Ramp	14,900 lb. (6,759 kg)	15,300 lb.(6,940 kg)

14. (Reserved)

C.G. Range section removed. See approved manual.

15. Datum

94.0 in. forward of the front face of the forward pressure bulkhead.

16. MAC

80.98 in. (L.E. of MAC at Sta. +261.56)

NOTE: This is reference MAC for basic wing without tip.

17. Levelling means

Seat Rails

18. Minimum Flight Crew

For all flights: 2 persons (pilot and co-pilot)

19. Maximum Passenger Seating Capacity:

Up to 13 (2 Pilots, up to 11 Passengers)

20. (Reserved)



21. Baggage / Cargo Compartment

Nose Compartment	350 lb. (159 kg) (at Sta. + 74.0)
Aft Cabin	400 lb. (181 kg) (at Sta. +321.0)
	200 lb. (91 kg) (at Sta. +338.0)
Tailcone	200 lb. (91 kg) (at Sta. +442.0)
	300 lb. (136 kg) (at Sta. +414.0)

22. (Reserved)

Wheels and Tyres section removed. See approved manual.

**IV Operation and Service Instructions**

Airplane Flight Manual (AFM)

Airplanes must be operated according to the FAA Approved Airplane Flight Manual (AFM), part number S55FM-43 (or later approved revision for Serials S550-0001 through S550-0160)

Airplane Maintenance Manual

Model S550 Maintenance Manual, S55MM-08 or later approved revision. See Chapter 4, "Airworthiness Limitations" for inspections, mandatory retirement life information and other requirements for continued airworthiness. "Airworthiness Limitations" may not be changed without the approval of the EASA.

**V. Notes**

NOTE 1. Model S550. Special Condition number 25-25-CE-4 applies to the following: (1) Operation without normal electrical power; (2) Limit Maneuvering load factor, in lieu of § 25.337(b); (3) Turbulence criteria; (4) Vibration and buffeting, in lieu of § 25.251(c); (5) Engine exhaust system drains; (6) Engine bleed air system; (7) Engine inflight restart capability; (8) Engine thrust control; (9) Powerplant installation fault analysis; (10) Turbine engine powerplant installation, in lieu of § 25.903(d); (11) Engine ignition system; and (12) Powerplant shutoff means, in addition to § 25.1189.

NOTE 2. Model 550 S/N 550-0001 through 550-0505, and S/N 550-0550 through 550-0626 when modified in accordance with Cessna Service Bulletin SB550-32-14 and Model S550 S/N S550-0001 through S550-0160 when modified in accordance with Cessna Service Bulletin SBS550-32-08 are eligible to operate at the following  $V_{LO}$  and  $V_{LE}$ :

	Model S550 – SBS550-32-08		
	Gravel Kit	Std Acft.	Gravel Kit
$V_{LO}$ (Landing gear operating extend)	198 KCAS	250 KCAS	200 KCAS
$V_{LO}$ (Landing gear operating retract)	198 KCAS	202 KCAS	200 KCAS
$V_{LE}$ (Landing gear extended)	198 KCAS	278 KCAS	202 KCAS



NOTE 3. 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:

Unusable fuel	60.0 lb. at +285.5 in.	(S550, S/N S550-0001 through S550-0160)
Full oil	34.7 lb. at +367.0 in.	(S550)
Hyd Fluid	31.5 lb. at +300.3 in.	(S550)
Anti-Ice fluid (Airframe)	15.2 lb. at +82.3 in.	(S550)
Anti-Ice fluid (Windshield)	3.4 lb. at +91.4 in.	(S550)

NOTE 4. All Model S550 replacement seats (crew and passenger), although they may comply with TSO C39, must also be demonstrated to comply with FAR 25.785.

NOTE 5. Certain Models meet the initial airworthiness requirements for operation in Reduced Vertical Separation Minimum (RVSM) airspace.

Model S550 Citation SII	S/N S550-0001 through S550-0160 that have accomplished Cessna Service Bulletin SBS550-34-36.
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## **SECTION 4: Model 560, Variants Citation V, Citation Ultra, Citation Encore, Citation Encore+**

### **I. General**

#### 1. Model/Variants

- 1.1 Model: 560
- 1.2 Variants: Citation V (S/N 560-0001 through 560-0259)  
Citation Ultra (S/N 560-0260 through 560-0538)  
Citation Encore (S/N 560-0539 through 560-0750)  
Citation Encore+ (S/N 560-0751 through 560-5000)

2. Performance Class: A

3. Certifying Authority: Federal Aviation Authority (FAA) USA  
Wichita Aircraft Certification Office  
1801 Airport Rd, Room 100  
Wichita, KS 67209  
USA

4. Manufacturer: Textron Aviation Inc.  
One Cessna Boulevard  
Wichita, Kansas 67215



USA

5. FAA Certification Application Date: Original TC application dated 16 July 1968  
TC No. A22CE issued 9 September 1971
- 5.1 Citation V and Citation Ultra  
5.2 (Reserved)  
5.3 Citation Encore 15 October 1997  
5.4 Citation Encore+ 24 February 2005
6. EASA Validation Application Date:
- 6.1 Citation V and Citation Ultra N/A  
6.2 (Reserved)  
6.3 Citation Encore N/A  
6.4 Citation Encore+ 04 April 2006
7. FAA Type Certification Date
- 7.1 Citation V and Citation Ultra 09 December 1988  
7.2 (Reserved)  
7.3 Citation Encore 26 April 2000  
7.4 Citation Encore+ 14 December 2006
8. EASA Type Validation Date
- 8.1 Citation V and Citation Ultra 28 September 2003  
8.2 (Reserved)  
8.3 Approval of Variant Encore changes 28 September 2003  
8.4 Approval of Variant Encore+ changes 24 August 2007

**II. Certification Basis**

1. Reference Date for determining the applicable requirements Same as FAA certification application date
2. FAA Type Certificate Data Sheet No.: A22CE
3. FAA Certification Basis: See FAA Type Certificate Data Sheet No. A22CE
4. Airworthiness Requirements
- 4.1 Airworthiness Requirements for Citation V (S/N 560-0001 through 560-0259)
- (1) Part 25 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 25-1 through 25-17 and the following:
- (a) Additions:
- FAR §§ 25.251(e), 25.934 and 25.1091(d)(2) as amended by Amendments 25-1 through 25-23; § 25.1401 as amended by Amendments 25-1 through 25-27; § 25.1387 as amended by Amendments 25-1 through 25-30; §§ 25.787, 25.789, 25.791, 25.853, 25.855, 25.857, and 25.1359 as amended by Amendments 25-1 through 25-32; §§ 25.1303(a)(2) and 25.1385(c) as amended by Amendments 25-



1 through 25-38.

(b) Additions for the Honeywell (Sperry) EDZ-603 and EDZ-605 Electronic Flight Instrument Systems only:

FAR §§ 25.1301, 25.1303(b), 25.1322 as amended by Amendments 25-1 through 25-38; §§ 25.1309, 25.1321(a), (b), (d), and (e), 25.1331, 25.1333, and 25.1335 as amended by Amendments 25-1 through 25-41.

(2) FAR Part 36 effective December 1, 1969, as amended by Amendments 36-1 through 36-15.

(3) SFAR 27, as amended by Amendments 27-1 and 27-6, fuel venting.

#### 4.2 Airworthiness Requirements for Citation Ultra (S/N 560-0260 through 560-0538)

(1) Part 25 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 25-1 through 25-17 and the following:

(a) Additions:

FAR §§ 25.251(e), 25.934 and 25.1091(d)(2) as amended by Amendments 25-1 through 25-23; § 25.1401 as amended by Amendments 25-1 through 25-27; § 25.1387 as amended by Amendments 25-1 through 25-30; §§ 25.787, 25.789, 25.791, 25.853, 25.855, 25.857, and 25.1359 as amended by Amendments 25-1 through 25-32; §§ 25.1303(a)(2) and 25.1385(c) as amended by Amendments 25-1 through 25-38; § 25.305 as amended by Amendments 25-1 through 25-54; § 25.1001 as amended by Amendments 25-1 through 25-57.

(b) Additions for the Honeywell Primus 1000 Electronic Flight Instrument Systems only:

FAR §§ 25.1301, 25.1303(b), 25.1322 as amended by Amendments 25-1 through 25-38; §§ 25.1309, 25.1321(a), (b), (d), and (e), 25.1331, 25.1333, and 25.1335 as amended by Amendments 25-1 through 25-41.

(2) FAR Part 36 effective December 1, 1969, as amended by Amendments 36-1 through 36-15.

(3) FAR Part 34 effective September 10, 1990, Fuel Venting and Exhaust Emission Requirements for Turbine Engine Powered Airplanes.

#### 4.3 Airworthiness Requirements for Citation Encore (S/N 560-0539 through 560-0750)

(1) Part 25 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 25-1 through 25-17 and the following:

(a) Additions:

FAR § 25.625 as amended by Amendments 25-1 through 25-17, and § 25.1401 as amended by Amendments 25-1 through 25-27, and; §§ 25.787, 25.789, 25.791, 25.853, 25.855, 25.857, and 25.1359 as amended by Amendments 25-1 through 25-32, and; § 25.1303(a)(2) as amended by Amendments 25-1 through 25-38, and; § 25.305 as amended by Amendments 25-1 through 25-54, and; §§ 25.119, 25.121, 25.125, 25.143, 25.145, 25.149, 25.201, 25.203, 25.251, 25.253, 25.337, 25.361, 25.363, 25.371, 25.471, 25.473, 25.479, 25.481, 25.483, 25.485, 25.489, 25.491, 25.493, 25.509, 25.611, 25.721, 25.723, 25.725, 25.727, 25.731, 25.733, 25.735, 25.863, 25.865, 25.867,



25.869, 25.901, 25.933, 25.934, 25.939, 25.943, 25.951, 25.952, 25.959, 25.961, 25.965, 25.977, 25.979, 25.994, 25.995, 25.997, 25.999, 25.1001, 25.1041, 25.1043, 25.1045, 25.1091, 25.1093, 25.1103, 25.1121, 25.1123, 25.1141, 25.1143, 25.1145, 25.1163, 25.1165, 25.1181, 25.1183, 25.1185, 25.1189, 25.1195, 25.1197, 25.1199; 25.1203, 25.1205(revoked), 25.1207, 25.1305, 25.1316, 25.1322, 25.1326, 25.1337, 25.1351, 25.1385(c), 25.1387, 25.1419, 25.1438, 25.1521, 25.1529, 25.1549, and 25.1551 as amended by Amendments 25-1 through 25-91.

(b) Additions for the Honeywell Primus 1000 Electronic Flight Instrument Systems only:

FAR §§ 25.1301, 25.1303(b), 25.1322 as amended by Amendments 25-1 through 25-38; §§ 25.1309, 25.1321(a), (b), (d), and (e), 25.1331, 25.1333, and 25.1335 as amended by Amendments 25-1 through 25-41.

(c) Addition limited ONLY to:

- (i) Pressurization System; Digital Controller and Outflow System;
- (ii) Anti-skid System; Individual Wheel Digital Anti-skid Controller;
- (iii) Anti-ice System; Electronic Tail Boot Control and Monitoring and Outboard Wing Leading Edge Bleed Air Control and Fault Annunciation.
- (iv) Integrated Warning, Caution, and Advisory Annunciation System limited to the Internal Control Logic and Display Functions Only.

FAR § 25.1309 as amended by Amendments 25-1 through 25-91.

- (2) FAR Part 36 effective December 1, 1969, Noise Standards, as amended by Amendments 36-1 through 36-21.
- (3) FAR Part 34 effective September 10, 1990, Fuel Venting and Exhaust Emission Requirements for Turbine Engine Powered Airplanes, as amended by Amendments 34-1 through 34-3.

#### 4.4 Airworthiness Requirements for Citation Encore+ (S/N 560-0751 through 560-5000)

- (1) Part 25 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 25-1 through 25-17, except for paragraphs applicable for engines and FADEC and the following:

(a) Additions:

FAR § 25.625 as amended by Amendments 25-1 through 25-17, and; § 25.1401 as amended by Amendments 25-1 through 25-27, and; §§ 25.787, 25.789, 25.791, 25.853, 25.855, 25.857, and 25.1359 as amended by Amendments 25-1 through 25-32, and; § 25.1303(a)(2) as amended by Amendments 25-1 through 25-38, and; § 25.305 as amended by Amendments 25-1 through 25-54, and; §§ 25.119, 25.121, 25.125, 25.143, 25.145, 25.149, 25.201, 25.203, 25.251, 25.253, 25.337, 25.361, 25.363, 25.371, 25.471, 25.473, 25.479, 25.481, 25.483, 25.485, 25.489, 25.491, 25.493, 25.509, 25.611, 25.721, 25.723, 25.725, 25.727, 25.731, 25.733, 25.735, 25.863, 25.865, 25.867, 25.869, 25.901, 25.933, 25.934, 25.939, 25.943, 25.951, 25.952, 25.959, 25.961, 25.965, 25.977, 25.979, 25.994, 25.995, 25.997, 25.999, 25.1001, 25.1041, 25.1043, 25.1045, 25.1091, 25.1093, 25.1103, 25.1121, 25.1123, 25.1141, 25.1143, 25.1145, 25.1163, 25.1165, 25.1181, 25.1183, 25.1185, 25.1189, 25.1195, 25.1197, 25.1199; 25.1203, 25.1205(revoked), 25.1207, 25.1305, 25.1316, 25.1322, 25.1326, 25.1337, 25.1351, 25.1385(c), 25.1387, 25.1419, 25.1438, 25.1521, 25.1529, 25.1549, and 25.1551 as amended by Amendments 25-1 through 25-91, and; §25.901, 25.903(a)(b)(c)(e) and (f), 25.933, 25.934, 25.939, 25.1043 as amended by Amendments 25-1 through 25-117





(b) Additions for the Electronic Flight Instrument Systems only:

14 CFR §§ 25.1301, 25.1303(b), 25.1322 as amended by Amendments 25-1 through 25-38; §§ 25.1309, 25.1321(a), (b), (d), and (e), 25.1331, 25.1333, and 25.1335 as amended by Amendments 25-1 through 25-41.

(c) Addition limited ONLY to:

- (i) Pressurization System; Digital Controller and Outflow System;
- (ii) Anti-skid System; Individual Wheel Digital Anti-skid Controller;
- (iii) Anti-ice System; Electronic Tail Boot Control and Monitoring and Outboard Wing Leading Edge Bleed Air Control and Fault Annunciation.

- (iv) Integrated Warning, Caution, and Advisory Annunciation System limited to the Internal Control Logic and Display Functions Only.

14 CFR § 25.1309 as amended by Amendments 25-1 through 25-91.

(d) Addition limited only to FADEC engine control system: §25.1309 as amended by amendments 25-1 through 25-117

- (2) 14 CFR Part 36 effective December 1, 1969, Noise Standards, as amended by Amendments 36-1 through 36-21.
- (3) 14 CFR Part 34 effective September 10, 1990, Fuel Venting and Exhaust Emission Requirements for Turbine Engine Powered Airplanes, as amended by Amendments 34-1 through 34-3.

## 5. Special Conditions

### 5.1 Special Conditions for Citation V

- (a) 25-25-CE-4, additional requirements for systems, airframe, flight and propulsion. See note 1.
- (b) 25-ANM-21, additional requirements for High Altitude Operation (45,000 feet). See note 2.
- (c) 25-674-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 16, 2017. See the applicability section of this special condition for more information on which design changes must meet it.

### 5.2 Special Conditions for Citation Ultra

- (a) 25-25-CE-4, additional requirements for systems, airframe, flight and propulsion. See note 1.
- (b) 25-ANM-21, additional requirements for High Altitude Operation (45,000 feet/13,716 m). See note 2.
- (c) 25-ANM-79, additional requirements for Lighting and High Intensity Radiated Fields (HIRF).
- (d) 25-674-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 16, 2017. See the applicability section of this special condition for more information on which design changes must meet it.

### 5.3 Special Conditions for Citation Encore



- (a) 25-ANM-21, additional requirements for High Altitude Operation (45,000 feet).
- (b) 25-ANM-79, additional requirements for High Intensity Radiated Fields (HIRF) only.
- (c) 25-25-CE-4, additional requirements for Turbine engine powerplant installation [Paragraphs 3, Inflight restart capability; 6, Turbine engine powerplant installation; and 7, Engine ignition system only].
- (d) 25-674-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 16, 2017. See the applicability section of this special condition for more information on which design changes must meet it.

#### 5.4 Special Conditions for Citation Encore+

Same as for Citation Encore, see II 5.3

6. Exemptions Not Applicable

7. (Reserved)

8. Equivalent Safety Findings

#### 8.1 Equivalent Safety Findings for Citation V

- (a) FAR § 25.807(d), Emergency exits ditching;
- (b) FAR § 25.1199(b) and (c), Fire Bottle Pressure Relief Valve;
- (c) FAR § 25.815, Passenger Cabin Aisle Width;
- (d) FAR § 25.1305(r), Use of N1 for Power Presentation;
- (e) FAR § 25.773(b)(2), Use of clear vision area of windshield; and
- (f) FAR § 25.1549(a) and (b), N2 Digital Indicator Markings.
- (g) FAR § 25.813(e), Frangible door.

FAR § 25.801 ditching not complied with.

Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

#### 8.2 Equivalent Safety Findings for Citation Ultra

Same as for Citation V, see II 8.1

#### 8.3 Equivalent Safety Findings for Citation Encore

- (a) FAR § 25.815, Passenger Cabin Aisle Width;
- (b) FAR § 25.773(b)(2), Use of clear vision area of windshield;
- (c) FAR § 25.1549(a) and (b), N2 Digital Indicator Markings;



- (d) FAR § 25.813(e), Frangible door;
- (e) FAR § 25.807(d), Emergency exits ditching.
- (f) FAR § 25.841 (b)(6), Cabin Pressurization – High Altitude Takeoff and Landing

FAR § 25.801 ditching not complied with.

Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

#### 8.4 Equivalent Safety Findings for Citation Encore+

- (a) 14 CFR § 25.815, Passenger Cabin Aisle Width;
- (b) 14 CFR § 25.773(b)(2), Use of clear vision area of windshield;
- (c) ELOS Memo # AT4267WI-T-P-1, 14 CFR § 25.1549(a) through (c) digital only displays N2, engine fuel flow (WF), and standby N1, N2, and ITT;
- (d) 14 CFR § 25.813(e), Frangible door;
- (e) 14 CFR § 25.807(d), Emergency exits ditching.
- (f) 14 CFR § 25.841 (b)(6), Cabin Pressurization – High Altitude Takeoff and Landing
- (g) ELOS Memo #ST4383WI-T-SE-1, 14 CFR 25.1303(a)(9) and 25.1547 electronic standby direction indicator.

14 CFR § 25.801 ditching not complied with.

Compliance with ice protection has been demonstrated in accordance with 14 CFR § 25.1419.

#### 9. Environmental Protection Standards

See FAR Part 36 in chapters II.4.

### **III. Technical Characteristics and Operational Limitations**

1. Type Design Definition: The Cessna Model 560 Variants Citation V, Citation Ultra, Citation Encore and Citation Encore+ are defined by Cessna Airplane Assembly Drawing Number 6500560.
2. Description: The Cessna Model 560 Variants Citation V, Citation Ultra, Citation Encore and Citation Encore+ are pressurized, low-wing monoplanes that are certified for up to 13 occupants including a minimum crew of two.



3. Equipment: The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification.

4. Dimensions

4.1 Dimensions for Citation V

Span	52 ft 2 in	(15.90 m)
Length	48 ft 9 in	(14.90 m)
Height	15 ft 0 in	(4.57 m)
Wing Area	342.6 sq ft	(31.83 sq m)

4.2 Dimensions for Citation Ultra

Same as for Citation V, see III 4.2

4.3 Dimensions for Citation Encore

Span	54 ft 1 in	(16.48 m)
Length	48 ft 11 in	(14.91m)
Height	15 ft 2 in	(4.62 m)
Wing Area	322.3 ft2	(29.94 m2)

4.4 Dimensions for Citation Citation Encore+

Same as for Citation Encore+, see III 4.3

5. Engines

Variant of Model 560		Citation V	Citation Ultra	Citation Encore	Citation Encore+
Engines		Two Pratt & Whitney of Canada, Inc. JT15D-5A turbofans	Two Pratt & Whitney of Canada, Inc. JT15D-5D turbofans	Two Pratt & Whitney of Canada, Inc. PW535A turbofans	Two Pratt & Whitney of Canada, Inc. PW535B turbofans
Engine Limits Static thrust, standard day, sea level	Takeoff (5 min., Normal All Engines Operating)	2900 lbs (1315 kg)	3045 lbs. (1381 kg)	3,400 lbs. (1,542 kg)	3,400 lbs (1,542 kg)
	Takeoff (10 min., One Engine Inoperative)	--	--	3,400 lbs. (1,542 kg)	3,400 lbs (1,542 kg)
	Maximum continuous	2900 lbs (1315 kg)	3045lbs (1381 kg)	3,400 lbs. (1,542 kg)	3,400 lbs (1,542 kg)
Engine Limits	N1 (Fan)	104%	100%	100%	100%



Variant of Model 560		Citation V	Citation Ultra	Citation Encore	Citation Encore+
Maximum permissible engine rotor operating speeds		16540 rpm	16860 rpm	15,850 rpm	15,850 rpm
	N2 (Gas Gen.)	96%	97%	100%	100%
		31450 rpm	31777 rpm	33,970 rpm	33,970 rpm
Engine Limits Maximum permissible interturbine gas temperatures	Takeoff	700°C	720°C	700°C	700°C
	Max. continuous	680°C	700°C	700°C	700°C
	Starting	550°C	550°C	740°C	740°C
	Transient	720°C (for 2 seconds)	740°C (for 2 seconds)	740°C (for 20 seconds)	740°C (for 20 seconds)

6. (Reserved)

7. (Reserved)

8. Fluids

8.1 Fluids for Citation V

- 8.1.1 Fuel: Jet A, Jet A-1, Jet B, JP-4, JP-5 or JP-8. For required use of anti-icing additives and emergency use of aviation gasoline, refer to the FAA Approved Airplane Flight Manual
- 8.1.2 Oil: Exxon Turbo Oil 2380, BP Turbo Oil 2380, Aero Shell Turbine500, Royco Turbine Oil 500, Mobile Jet Oil II, Castrol 5000, Aero Shell Turbine Oil 560, Royco Turbine Oil 560, Mobile Jet Oil 254
- 8.1.3. Coolant: Not applicable

8.2 Fluids for Citation Ultra

Same as for Citation V, see III 8.1

8.3 Fluids for Citation Encore

- 8.3.1 Fuel: Jet A, Jet A-1, Jet B, JP-4, JP-5, or JP-8.
- 8.3.2 Oil: Exxon Turbo Oil 2380, BP Turbo Oil 2380, Aero Shell Turbine 500, Royco Turbine Oil 500, Mobile Jet Oil II, Castrol 5000, Aero Shell Turbine Oil 560, Royco Turbine Oil 560, Mobile Jet Oil 254
- 8.3.3 Coolant: Not applicable.

8.4 Fluids for Citation Citation Encore+

- 8.4.1 Fuel: Jet A, Jet A-1, JP-5 or JP-8.
- 8.4.2 Oil: Exxon Turbo Oil 2380, BP Turbo Oil 2380, Aero Shell Turbine 500, Royco Turbine Oil 500, Mobile Jet Oil II, Castrol 5000, Aero Shell



Turbine Oil 560, Royco Turbine Oil 560, Mobile Jet Oil 254

8.4.3 Coolant: Not applicable

## 9. Fluid capacities

### 9.1 Fluid capacities for Citation V

9.1.1 Fuel (Gal/Liters): Two wing tanks: Total 431.9/1635 each;  
usable 430.5/1,630 each  
ARM: 302.7 in.  
See NOTE 6 for data on unusable fuel

9.1.2 Oil (Quarts/Liters): Two engine-mounted tanks: Total 8.1/7.7 each;  
usable 4.8/4.5 each  
ARM: +387.0 in.  
Capacity: 3.4 lb.  
ARM: +91.4 in.  
Approved Anti-Ice Fluids: TT-I-735 Isopropyl alcohol

Windshield Anti-Ice Fluid

### 9.2 Fluid capacities for Citation Ultra

9.2.1 Fuel (Gal/Liters): Two wing tanks: Total 431.9/1635 each;  
usable 430.5/1,630 each  
ARM: 302.7 in.  
See NOTE 6 for data on unusable fuel

9.2.2 Oil (Quarts/Liters): Two engine mounted tanks: Total 8.4/7.9 each;  
usable 4.7/4.4 each  
ARM: +387.0 in.  
Capacity: 3.4 lb.  
ARM: +91.4 in.  
Approved Anti-Ice Fluids: TT-I-735 Isopropyl alcohol

Windshield Anti-Ice Fluid

### 9.3 Fluid capacities for Citation Encore

9.3.1 Fuel (Gal/Liters): Two wing tanks: Total 406.4/1538.4 each;  
usable 403/1526 each  
ARM: +303.5 in.  
See NOTE 6 for data on unusable fuel

9.3.2 Oil (Quarts/Liters): Two engine mounted tanks: Total 8.6/8.1 each;  
usable 0.6/0.6 each  
ARM: +387.0 in.  
Capacity: 2.0 quarts/1.9 Liters  
ARM: +91.5 in.  
Approved Anti-Ice Fluids: TT-I-735 Isopropyl alcohol

Windshield Anti-Ice Fluid

### 9.4 Fluid capacities for Citation Citation Encore+

Same as for Citation Encore, see III 9.3

## 10. Airspeed Limits (KCAS)



		Citation V	Citation Ultra	Citation Encore	Citation Encore+
V <sub>MO</sub> (Maximum operating)  *See NOTE 3 for restricted V <sub>MO</sub> for optional fuel weight configuration	Sea level to 8000 ft (2438 m)	260 KCAS (261 KIAS)	260 KCAS (261 KIAS)	260 KCAS (262 KIAS)	260 KCAS (262 KIAS)
	8000 ft (2438 m) to 28907 ft (8811 m)	290 KCAS (292 KIAS)*	290 KCAS (292 KIAS)*	290 KCAS (292 KIAS)	290 KCAS (292 KIAS)
	M <sub>MO</sub> Above 28907 ft (8811 m)	0.75 Mach (0.755 MIAS)	0.75 Mach (0.755 MIAS)	0.75 Mach (0.755 MIAS)	0.75 Mach (0.755 MIAS)
V <sub>A</sub> (Sea level)	at MTOW See AFM for variations with weight and altitude	201 KCAS (202 KIAS)	201 KCAS (202 KIAS)	193 KCAS (194 KIAS)	193 KCAS (194 KIAS)
V <sub>FE</sub> (Flaps extended)	35° (Landing)	174 KCAS (173 KIAS)	174 KCAS (173 KIAS)	173 KCAS (173 KIAS)	173 KCAS (173 KIAS)
	15° (Takeoff and approach)	199 KCAS (200 KIAS)	199 KCAS (200 KIAS)	199 KCAS (200 KIAS)	199 KCAS (200 KIAS)
	7° (Takeoff)	199 KCAS (200 KIAS)	199 KCAS (200 KIAS)	199 KCAS (200 KIAS)	199 KCAS (200 KIAS)
V <sub>MCA</sub> (Minimum control speed Air)		84 KCAS (85 KIAS)	84 KCAS (85 KIAS)	84 KCAS (86 KIAS)	84 KCAS (86 KIAS)
V <sub>MCG</sub> (Minimum control speed) Ground		85.5 KCAS (86 KIAS)	85.5 KCAS (86 KIAS)		
	15° (Takeoff)			95 KCAS (92 KIAS)	95 KCAS (92 KIAS)
	7° (Takeoff)			99 KCAS (96 KIAS)	99 KCAS (96 KIAS)
V <sub>LO</sub> (Landing gear operating extend)		249 KCAS (250 KIAS)	249 KCAS (250 KIAS)	249 KCAS (250 KIAS)	249 KCAS (250 KIAS)
V <sub>LO</sub> (Landing gear operating retract)		199 KCAS (200 KIAS)	199 KCAS (200 KIAS)	199 KCAS (200 KIAS)	199 KCAS (200 KIAS)
V <sub>LE</sub> (Landing gear extended)		290 KCAS (292 KIAS)	290 KCAS (292 KIAS)	249 KCAS (250 KIAS)	249 KCAS (250 KIAS)
V <sub>SB</sub> (Speed brakes extended)		Any speed with or without flaps	Any speed with or without flaps	Any speed with or without flaps	Any speed with or without flaps

See NOTE 4 for V<sub>LO</sub> and V<sub>LE</sub> for 12,200 lb. ZFW option and gravel kit.

11 Flight Envelope:

The flight envelope is defined in the applicable EASA approved Aircraft Flight Manuals (AFM); the AFMs are referenced in chapter IV.1.

Maximum Operating Altitude

13,716 m (45,000 ft.)



## 12. Operating Limitations

12.1 (Reserved)

12.2 (Reserved) Control surface movement removed

## 13. Maximum Certified Weights

	Citation V	Citation Ultra**	Citation Encore	Citation Encore+
Takeoff	7212 kg (15,900 lbs)	7394 kg (16,300 lbs)	7,543 kg (16,630 lbs)	7,634 kg (16,830 lbs)
Landing	6895 kg (15,200 lbs)	6895 kg (15,200 lbs)	6,895 kg (15,200 lbs)	6,895 kg (15,200 lbs)
Zero fuel	5080 kg (11,200 lbs)*	5534 kg (12,200 lbs)	5,715 kg (12,600 lbs)	5,715 kg (12,600 lbs)
Ramp	7303 kg (16,100 lbs)	7484 kg (16,500 lbs)	7,634 kg (16,830 lbs)	7,725 kg (17,030 lbs)

\*See NOTE 3 for optional zero fuel weight

\*\* See NOTE 5

14. (Reserved) C.G. Range section removed. See approved manual.

15. Datum: 94.0 in. forward of the front face of the forward pressure bulkhead.

16. Mean Aerodynamic Cord (MAC): 80.98 in. (L.E. of MAC at Sta. +281.56)  
NOTE: This is reference MAC for basic wing without leading edge cuff and tip

## 17. Levelling means

### 17.1 Levelling means for Citation V and Ultra

Seat Rails

### 17.2 Levelling means for Citation Encore and Encore+

Crew Seat Rails (Lateral level); Cabin Door Step Hinge Brackets (Longitudinal level)

18. Minimum Flight Crew: For all flights: 2 persons (pilot and co-pilot)

19. Maximum Seating Capacity: Up to 13 (2 Pilots, up to 11 Passengers)

## 20. Baggage / Cargo Compartment

### 20.1 Baggage / Cargo Compartment for Citation V

Nose Compartment	350 lb.(159kg) (at Sta. + 74.0)
Aft Cabin	600 lb.(272kg) (at Sta.+ 348.04)
Tailcone	300 lb. (136kg) (at Sta.+ 434.0) and





200 lb. (91kg) (at Sta.+ 462.0)

## 20.2 Baggage / Cargo Compartment for Citation Ultra

Nose Compartment	310 lb.(141kg) (at Sta. + 74.0)
Aft Cabin	600 lb.(272kg) (at Sta.+ 348.04)
Tailcone	300 lb. (136kg) (at Sta.+ 434.0) and 200 lb. (91kg) (at Sta.+ 462.0)

## 20.3 Baggage / Cargo Compartment for Citation Encore and Encore +

Same as Citation Ultra, see III 20.2

21. (Reserved) manual. Wheel and Tyres section removed. See approved manual.

22. (Reserved)

## **IV Operation and Service Instructions**

### 1. Operation and Service Instructions for Citation V - S/N 560-0001 through 560-0259

Airplane Flight Manual (AFM)	Airplanes must be operated according to the FAA Approved Airplane Flight Manual (AFM), part number 56FM-11 (or later approved revision)
Airplane Maintenance Manual	Model 560 Maintenance Manual, 56MM-11 or later approved revision. See Chapter 4, "Airworthiness Limitations" for inspections, mandatory retirement life information and other requirements for continued airworthiness. "Airworthiness Limitations" may not be changed without the approval of the EASA.

### 2. Operation and Service Instructions for Citation Ultra - S/N 560-0260 through 560-0538

Airplane Flight Manual (AFM)	Airplanes must be operated according to the FAA Approved Airplane Flight Manual (AFM), part number 56FMA-08 (or later approved revision)
Airplane Maintenance Manual	Model 560 Maintenance Manual, 56MM-11 or later approved revision. See Chapter 4, "Airworthiness Limitations" for inspections, mandatory retirement life information and other requirements for continued airworthiness. "Airworthiness Limitations" may not be changed without the approval of the EASA.

### 3. Operation and Service Instructions for Citation Encore - S/N 560-0539 through 560-0750

Airplane Flight Manual (AFM)	Airplanes must be operated according to the FAA Approved Airplane Flight Manual (AFM), part number 56FMB-04 (or later approved revision)
Airplane Maintenance Manual	Model 560 Encore Maintenance Manual, 56MM-12 or later approved revision. See Chapter 4, "Airworthiness Limitations" for inspections, mandatory retirement life information and



other requirements for continued airworthiness.  
“Airworthiness Limitations” may not be changed without the approval of EASA.

4. Operation and Service Instructions for Citation Encore+ - S/N 560-0751 through 560-5000

Airplane Flight Manual (AFM) Airplanes must be operated according to the FAA Approved Airplane Flight Manual (AFM), part number 56FFMC-00(or later approved revision)

Airplane Maintenance Manual Model 560 Encore Maintenance Manual, 56MM-22 or later approved revision. See Chapter 4, “Airworthiness Limitations” for inspections, mandatory retirement life information and other requirements for continued airworthiness.  
“Airworthiness Limitations” may not be changed without the approval of EASA.

**V. Notes**

NOTE 1. Models 560 (S/N 560-0001 through 560-0259 and 560-0260 through 560-0538). Special Condition number 25-25-CE-4 applies to the following: (1) Operation without normal electrical power; (2) Limit Maneuvering load factor, in lieu of § 25.337(b); (3) Turbulence criteria; (4) Vibration and buffeting, in lieu of § 25.251(c); (5) Engine exhaust system drains; (6) Engine bleed air system; (7) Engine inflight restart capability; (8) Engine thrust control; (9) Powerplant installation fault analysis; (10) Turbine engine powerplant installation, in lieu of § 25.903(d); (11) Engine ignition system; and (12) Powerplant shutoff means, in addition to § 25.1189.

NOTE 2. Certain models have been approved for high altitude operations (altitudes above 41,000 feet), either by Special Conditions or compliance with certain Part 25 sections. Any modifications to the pressure vessel must be approved in accordance with the requirements as shown in the appropriate certification basis.

This includes modifications which could result in a pressure vessel opening, either through crack-growth or antenna loss, greater than the specified areas as follows:

Model 560 S/N 560-0001 through 560-5000	4.00 sq. in.
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NOTE 3. Model 560 S/N 560-0001 through 560-0259 conforming to ECR 26053 are eligible for 12,200 lb. zero fuel weight with V<sub>MO</sub> reduced to 275 KCAS from 8,000 ft. to 31,400 ft.

NOTE 4. Model 560 Citation V and Ultra (S/N 560-0001 through 560-0538) airplanes conforming to ECR 26053, 12,200 ZFW Option and conforming to ECR 26155 Gravel Kit, the following V<sub>LO</sub>'s and V<sub>LE</sub>'s apply:

	Model 560 (Citation V and Ultra)	
	12,200 lb. ZFW ECR 026053, Rev. D	Gravel Kit ECR 026155, Rev. C
V <sub>LO</sub> (Landing gear operating)	249 KCAS	199 KCAS



extend)		
V <sub>LO</sub> (Landing gear operating retract)	199 KCAS	199 KCAS
V <sub>LE</sub> (Landing gear extended)	275 KCAS	199 KCAS

ECR 26053, 12,200 ZFW Option is applicable to S/N 560-0001 through 560-0259.

NOTE 5. Model 560 aircraft s/n 560-0387, -0392, -0404, -0410, -0415, -0420, -0426, -0452, -0456, -0462, -0468, -0472, -0495, -0501, -0505, -0508, -0513, -0524, -0529, -0532, -0534, and -0538 modified per EC 046497 are eligible to operate at the following C.G. range and increased weights.

**C.G. Range**

Forward Limits: Linear variation from 296.95 in. aft of datum (19% MAC) at 16,850 lbs. to 296.35 in aft of datum (18.26 % MAC) at 16,500 lb. to 293.71 in. aft of datum (15% MAC) at 11,500 lb.; 293.71 in. aft of datum (15% MAC) at 11,500 lb. or less.

Aft Limits: 304.23 in. aft of datum (28% MAC) at 16,850 lb. or less

**Maximum Weight**

Takeoff	16,650 lb. (7552 kg)
Ramp	16,850 lb. (7643 kg)
Landing	15,200 lb. (6895 kg)
Zero fuel	12,200 lb. (5534 kg)

NOTE 6. 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:

	Citation V S/N 560-0001 through 560-0259	Citation Ultra S/N 560-0260 through 560-0538	Citation Encore S/N 560-0539 through 560-0750	Citation Encore+ S/N 560-0751 through 560-5000:
Unusable fuel	20.0 lb. at +308.0 in.	20.0 lb. at +308.0 in.	35.6 lb. at + 289.1in.	34.8 lb. at + 289.1in.
Full oil	32.2 lb. at +387.0 in.	32.2 lb. at +387.0 in.	34.1 lb. at +387.0 in.	34.1 lb. at +387.0 in.
Hyd Fluid	31.5 lb. at +320.3 in.	31.5 lb. at +320.3 in.	21.7 lb. at +284.0 in.	15.4 lb. at +228.02 in.
Anti-Ice fluid (Windshield)	3.4 lb. at +91.4 in.	3.4 lb. at +91.4 in.	3.4 lb. at +91.5 in.	3.4 lb. at +91.5 in.

NOTE 7 Production Certificate No. PC-4 issued May 7, 1998. Applies to the following airplanes and



serial numbers: Model 500 beginning at S/N 500-0687 through 500-0689; Model 550 beginning at S/N 550-0550 through 550-0800; Model S550 beginning at S/N S550-0034 through S550-0160; Model 552 beginning at S/N 552-0012 through 552-0015; Model 560 (Citation V and Citation Ultra) S/N 560-0001 through 560-0538; Model 560 (Bravo) S/N 550-0801 and on; and Model 560XL beginning at S/N 560-5001 and on; Model 560 Encore beginning at S/N 560-0539 through 560-0750 and Encore+ S/N 560-0751 through 560-5000.

**NOTE 8** Certain Models meet the initial airworthiness requirements for operation in Reduced Vertical Separation Minimum (RVSM) airspace.

Model 560 Citation V	S/N 560-0001 through 560-0259 that have accomplished Service Bulletin SB560-34-97
Model 560 Ultra	S/N 560-0260 through 560-0525 that have accomplished Service Bulletin SB560-34-97, and S/N 560-0526 through 560-0538
Model 560 Encore Model 560 Encore+	S/N 560-0539 through 560-0750 S/N 560-0751 through 560-5000

**NOTE 9** The Instructions for Continued Airworthiness for the Encore +, S/N 560-0751 through 560-5000 are incomplete at the time of Type Certification. The Model 560 Encore+ will be eligible for a standard airworthiness certificate when the ICA are complete and FAA accepted.

**NOTE 10** All Model 560 replacement seats (crew and passenger), although they may comply with TSO C39, must also be demonstrated to comply with FAR 25.785.

## **SECTION 5: Model 560XL Citation Excel, Citation XLS, Citation XLS+**

### **I. General**

#### **1. Model/Variant**

1.1 Model:

560XL

1.2 Variants:

Excel (S/N 560-5001 through 560-5500)

XLS (S/N 560-5501 through 560-6000)

XLS+ (S/N 560-6001 and on)

2. Performance Class:

A

3. Certifying Authority:

Federal Aviation Authority (FAA) USA  
Wichita Aircraft Certification Office  
1801 Airport Rd, Room 100  
Wichita, KS 67209  
USA

4. Manufacturer:

Textron Aviation Inc.  
One Cessna Boulevard  
Wichita, Kansas 67215  
USA

5. FAA Certification Application Date:

Model 560XL (XLS+) – 17 February 2006



6. EASA Validation Application Date: Model 560XL (XLS+) – 16 February 2007
7. FAA Type Certification Date: Model 560XL (Excel) – 22 April 1998  
Model 560XL (XLS) – 22 March 2004  
Model 560XL (XLS+) – 30 May 2008
8. EASA Type Validation Date: 28 September 2003  
EASA approval of XLS: 22 September 2007  
EASA approval of XLS+: 05 March 2009

## II. Certification Basis

1. Reference Date for determining the applicable requirements: Same as FAA certification application date
2. (Reserved)
3. (Reserved)
4. Certification Basis: 560-5001 through 560-5500 (Excel)  
560-5501 through 560-6000 (XLS)

(1) Part 25 of the Federal Aviation Regulations, effective February 1, 1965, as amended by Amendments 25-1 through 25-82, with additions and exceptions as follows:

(a) Additions:

FAR §§ 25.305, 25.321, 25.331, 25.333, 25.335, 25.341, 25.343, 25.345, 25.349, 25.371, 25.373, 25.391, 25.427, and 25.1517 as amended by Amendment 25-86; and, FAR § 25.351 as amended by Amendment 25-91.

(b) Exceptions (as shown in table):

SECTION NO.	TITLE	EFFECTIVE AMENDMENT	EXCEPTIONS [Not Part of Cert. Basis]
25.562	Emergency landing dynamic conditions.	25-82 Applicable	§§ 25.562(c)(5) and (c)(6)
25.571	Damage-tolerance and fatigue evaluation of structure.	25-82 Applicable	§ 25.571(e)(1)
25.631	Bird strike damage.	None, this section is not part of cert. basis.	§ 25.631 not applicable



25.671	<p>Control Systems – General.</p> <ul style="list-style-type: none"> <li>• Applicable to the 2-position horizontal stabilizer.</li> <li>• All other airplane control systems.</li> </ul>	<p>25-82</p> <p>Original Issue Applicable (25-1 through 25-17)</p>	<p>None</p> <p>§ 25.671 as amended by Amdts. 25-23 and later, not applicable</p>
25.677	<p>Trim Systems.</p> <ul style="list-style-type: none"> <li>• Applicable to the 2-position horizontal stabilizer.</li> <li>• All other airplane trim systems, including the elevator trim.</li> </ul>	<p>25-82</p> <p>Original Issue Applicable (25-1 through 25-17)</p>	<p>None</p> <p>§ 25.677 as amended by Amdts. 25-23 and later, not applicable</p>
25.1309	<p>Equipment, systems, and installations.</p> <ul style="list-style-type: none"> <li>• Applicable to Electronic Flight Instrument systems (Honeywell Primus 1000 Cockpit Display), Flight Guidance, hydraulic, electrical, pressurization system, and 2-position horizontal stabilizer only.</li> <li>• All other airplane systems.</li> </ul>	<p>25-82</p> <p>Original Issue Applicable (25-1 through 25-17)</p>	<p>None</p> <p>§ 25.1309 as amended by Amdts. 25-23 and later, not applicable.</p>

- (2) FAR Part 36 effective December 1, 1969, as amended by Amendments 36-1 through 36-21.
- (3) FAR Part 34 effective September 10, 1990 as amended by Amendment 34-1.
- (4) CS-FCD Operational Suitability Data (OSD) Flight Crew Data, 31 January 2014
- (5) CS-MMEL Master Minimum Equipment List, 31 January 2014

5. Special Conditions:

- (a) 25-ANM-79, effects of High Intensity Radiated Fields (HIRF). The portions associated with System Lightning Protection do not apply; and
- (b) 25-ANM-21, High Altitude Operation (45,000 feet). See Note 1.
- (c) 25-674-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 16, 2017. See the applicability section of this special condition for more information on which design changes must meet it.

6. Exemptions:

Exemption number 6706 granted. Model 560XL exempt from requirements of FAR § 25.677(b) for horizontal stabilizer position indicator.



7. Equivalent Level of Safety Findings:

- (a) FAR § 25.807(e), Emergency exits ditching (involves water barrier);
- (b) FAR § 25.815, Passenger Cabin Aisle Width; (See Note 2)
- (c) FAR § 25.813(e), Lavatory door installation between passenger compartments;
- (d) FAR §§ 25.811(d)(1); 25.812(b)(1)(i), Emergency exit markings and locator signs;
- (e) FAR § 25.841(b)(6), Takeoff and landing operations at high elevation airports;
- (f) FAR § 25.1549(a) and (b), Digital only display of turbine engine N2;
- (g) FAR §§ 1.1; 1.2; 25.101; 25.105; 25.109; 25.113; 25.115; 25.735; and 25.1587, Rejected takeoff distance and landing performance criteria (includes worn brake criteria); and FAR §§ 25.1305(a)(4), (a)(5), (a)(6), (c)(1) and (c)(3), and 25.1549(a) through (d), Digital only display of APU engine rotor speed, exhaust gas temperature and no indication of oil pressure or oil temperature.
- (i) ELOS #SP2095WI-T-AG-8, dated August 23, 2002, FAR§ 25.815, Passenger Cabin Aisle Width
- (j) FAR §§ 25.1301(a)(d), 25.1303(a)(3), 25.1309(a)(b)(d)(e), 25.1316, 25.1327, 25.1331, 25.1333, 25.1547, 25.1351(d), 25.1353(a)(c), and 25.1459(e), Electric Standby Direction Indicator (Compass) (Applies to XLS)

FAR § 25.801 ditching not complied with.

Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

8. Certification Basis: 560-6001 and On (XLS+)

- (1) Part 25 of the Federal Aviation Regulations, effective February 1, 1965, as amended by Amendments 25-1 through 25-82, with additions and exceptions as follows:

Additions:

FAR §§ 25.305, 25.321, 25.331, 25.333, 25.335, 25.341, 25.343, 25.345, 25.349, 25.371, 25.373, 25.391, 25.427, and 25.1517 as amended by Amendment 25-86; and, FAR § 25.351 as amended by Amendment 25-91.

FAR §§ 25.901, 25.903, 25.933, 25.934, 25.939, and 25.943 as amended by Amendments 25-1 through 25-117.

14 CFR 25.1317(b) as amended by amendments 25-1 through 25-122, is applicable to global positioning system sensor for S/N 560-6247 and subsequent.

- (b) Exceptions (as shown in table):

SECTION NO.	TITLE	EFFECTIVE AMENDMENT	EXCEPTIONS [Not Part of Cert. Basis]
25.562	Emergency landing dynamic conditions.	25-82 Applicable	§§ 25.562(c)(5) and (c)(6)
25.571	Damage-tolerance and fatigue evaluation of structure.	25-82 Applicable	§ 25.571(e)(1)



SECTION NO.	TITLE	EFFECTIVE AMENDMENT	EXCEPTIONS [Not Part of Cert. Basis]
25.631	Bird strike damage.	None, this section is not part of cert basis.	§ 25.631 not applicable
25.671	Control Systems – General. <ul style="list-style-type: none"> <li>• Applicable to the 2-position horizontal stabilizer.</li> <li>• All other airplane control systems.</li> </ul>	25-82  Original Issue Applicable (25-1 through 25-17)	None  § 25.671 as amended by Amdts. 25-23 and later, not applicable
25.677	Trim Systems. <ul style="list-style-type: none"> <li>• Applicable to the 2-position horizontal stabilizer.</li> <li>• All other airplane trim systems, including the elevator trim.</li> </ul>	25-82  Original Issue Applicable (25-1 through 25-17)	None  § 25.677 as amended by Amdts. 25-23 and later, not applicable
25.1309	Equipment, systems, and installations. <ul style="list-style-type: none"> <li>• Applicable to Electronic Flight Instrument systems (Rockwell Collins ProLine 21), Flight Guidance, hydraulic, electrical, pressurization system, and 2-position horizontal stabilizer only.</li> <li>• All other airplane systems.</li> </ul> <ul style="list-style-type: none"> <li>• FADEC Installation</li> </ul>	25-82  Original Issue Applicable (25-1 through 25-17)  25-117	None  § 25.1309 as amended by Amdts. 25-23 and later, not applicable

- a. (2) FAR Part 36 effective December 1, 1969, as amended by Amendments 36-1 through 36-28.

- (2) FAR Part 34 effective September 10, 1990 as amended by Amendment 34-1.  
(3) CS-FCD Operational Suitability Data (OSD) Flight Crew Data, 31 January 2014  
(4) CS-MMEL Master Minimum Equipment List, 31 January 2014

9. Special Conditions:

- (a) 25-ANM-79, effects of High Intensity Radiated Fields (HIRF). The portions associated with System Lightning Protection do not apply; and
- (b) 25-ANM-21, High Altitude Operation (45,000 feet). See note 26.
- (c) 25-674-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 16, 2017. See the applicability section of this special condition for more information on





which design changes must meet it.

#### 10. Exemption:

Exemption number 6706 granted. Model 560XL exempt from requirements of FAR § 25.677(b) for horizontal stabilizer position indicator.

#### 11. Equivalent Level of Safety Findings:

- (a) FAR § 25.807(e), Emergency exits ditching (involves water barrier);
- (b) FAR § 25.815, Passenger Cabin Aisle Width; (See Note 29)
- (c) FAR § 25.813(e), Lavatory door installation between passenger compartments;
- (d) FAR §§ 25.811(d)(1); 25.812(b)(1)(i), Emergency exit markings and locator signs;
- (e) FAR § 25.841(b)(6), Takeoff and landing operations at high elevation airports;
- (f) FAR § 25.1549(a) and (b), Digital only display of turbine engine N2;
- (g) FAR §§ 1.1; 1.2; 25.101; 25.105; 25.109; 25.113; 25.115; 25.735; and 25.1587, Rejected takeoff distance and landing performance criteria (includes worn brake criteria); and
- (h) FAR §§ 25.1305(a)(4), (a)(5), (a)(6), (c)(1) and (c)(3), and 25.1549(a) through (d), Digital only display of APU engine rotor speed, exhaust gas temperature and no indication of oil pressure or oil temperature.
- (i) ELOS #SP2095WI-T-AG-8, dated August 23, 2002, FAR §25.815, Passenger Cabin Aisle Width
- (j) ELOS #AT4531WI-T-SE-1, FAR §§ 25.1301(a)(d), 25.1303(a)(3), 25.1309(a)(b)(d)(e), 25.1316, 25.1327, 25.1331, 25.1333, 25.1547, 25.1351(d), 25.1353(a)(c), and 25.1459(e), Electric Standby Direction Indicator (Compass)
- (k) ELOS #AT4531WI-T-P-1, dated March 20, 2008, §§21.21(b)(1), 25.1549, Use of Numeric Digital Only Display for Engine High-Pressure Turbine Speed (N2) and Engine Fuel Flow (Wf), and Standby N1, N2, and ITT.
- (l) ELOS #AT4531WI-T-SE-2, dated May 30, 2008, §§25.1397(c), 25.1401(d), Exterior Lighting Chromaticity Requirements

FAR § 25.801 ditching not complied with.

Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

#### 12. EASA additions to Certification Basis based on CS 25 amendment 1 Certification Review Items (CRI):

##### 12.1 Special Conditions

CRI B-01	Steep Approach Landing
CRI F-03	HIRF Protection
CRI F-04	Electrical Wiring Interconnection System
CRI F-05	Lightning Protection – direct/indirect effects
CRI F-06	Electronic Charts
CRI N-01	Noise Standards

##### 12.2 Equivalent Safety Finding:

CRI F-10	Digital Display of Turbine Engine N2
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#### 13. Environmental Standards

- Noise requirements: ICAO Annex 16, Volume I, Third edition, Chapter 3  
Emission requirements: ICAO Annex 16, Volume II, Part II (Fuel Venting) and Part III, Chapter 2



### III. Technical Characteristics and Operational Limitations

1. Type Design Definition: The Model 560XL is defined by Cessna Airplane Assembly Drawing Number 6600000.
  
2. Description: The Model 560XL (Excel, XLS and XLS+) is a mid-sized, pressurized, low-wing business jet which is certified for up to 12 person including a minimum crew of two.
  
3. Equipment: The equipment required by the applicable requirements shall be installed.
  
4. Dimensions:

Span	55 ft 8 in (16.97 m)
Length	51 ft 10 in (15.80 m) (Excel, XLS) 52 ft 9 in (16.07 m) (XLS+)
Height	17 ft 2 in (5.23 m)
Wing Area	369.7 sq ft (34.4 sq m)
  
5. Engines:

S/N 560-5001 through 560-5500	Two Pratt & Whitney of Canada, Inc. PW545A Turbopfans
S/N 560-5501 and on.	Two Pratt & Whitney of Canada, Inc. PW545B Turbopfans
S/N 560-6001 and on.	Two Pratt & Whitney of Canada, Inc. PW545C Turbopfans

Engine Limits: S/N 560-5001 through 560-5500  
PW545A Turbopfans

Static thrust standard day, sea level:

Takeoff (5 min.)	3952 lb.(1,793kg)
Max. continuous	3372 lb.(1,530kg)

Max. permissible engine rotor operating speeds (PW 545A):

N <sub>1</sub> (Fan) 100 percent	13,034 r.p.m.
N <sub>2</sub> (Gas Gen.) 101.8 percent (S/N 560-5001, 560-5003 thru 560-5500)	33,289 r.p.m.

Max. permissible interturbine gas temperatures:

Takeoff	720° C.
Max. continuous	720° C.



Starting	720° C.
Transient (20 seconds)	760° C.

S/N 560-5501 and on  
PW545B Turbofans

Static thrust standard day, sea level:

Takeoff (5 min.)	4119 lb.(1,868kg)
Max. continuous	3372 lb.(1,530kg)

Max. permissible engine rotor operating speeds (PW 545B):

N <sub>1</sub> (Fan) 100 percent	13,034 r.p.m.
N <sub>2</sub> (Gas Gen.) 102.8 percent	33,622 r.p.m.

Max. permissible interturbine gas temperatures:

Takeoff	740° C.
Max. continuous	720° C.
Starting	740° C.
Transient (20 seconds)	780° C.

S/N 560-6001 and on  
PW545C Turbofans

Static thrust standard day, sea level:

Takeoff (5 min.)	4119 lb.(1,868kg)
Max. continuous	3372 lb.(1,530kg)

Max. permissible engine rotor operating speeds (PW 545C):

N1 (Fan) 100 percent	13,034 r.p.m.
N2 (Gas Gen.) 102.8 percent	33,622 r.p.m.

Max. permissible interturbine gas temperatures:

Takeoff	740° C.
Max. continuous	720° C.
Starting	740° C.
Transient (20 seconds)	780° C.

6. (Reserved)

7. (Reserved)

8. Fluids

8.1 Fuel:

Excel and XLS	Jet A, Jet A-1, Jet B, Jet 3, JP-4, JP-5, or JP-8. For use of anti-icing additives, refer to the FAA Approved Airplane Flight
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	Manual.
XLS+	Jet A, Jet A-1, Jet 3, JP-5, or JP-8. For use of anti-icing additives, refer to the FAA Approved Airplane Flight Manual.

8.2. Oil: Aero Shell Turbine Oil 500, Royco Turbine Oil, Castrol 5000, BP 2380 Turbo Oil (Type II), Aero Shell Turbine Oil 560

8.3. Coolant: Not applicable.

9. Fluid capacities:

9.1 Fuel (Gal/Liters): Two wing tanks: Total 505.8/1,914.7 each;  
usable 503.0/1,904.1 each  
ARM 328.8 in. aft of datum  
See NOTE 4 for data on unusable fuel.

9.2 Oil (Quarts/Liters): Two engine mounted tanks: Total 7.5/7.1 each;  
usable 0.6/0.6 each  
ARM 433.9 in. aft of datum

10. Airplane Limit Speeds (KCAS)

		Model 560XL (Excel/XLS/XLS+)
V <sub>MO</sub> (Maximum Operating)	Sea level to 8000 ft (2438 m)	261 KCAS (260 KIAS)
	8000 ft (2438 m) to 26,515 ft (8082 m)	306 KCAS (305 KIAS)
M <sub>MO</sub>	Above 26,515 ft (8082 m)	0.752 Mach (0.750 MIAS)
V <sub>A</sub> (Sea level)	at 20,000 lb. See AFM for variations with weight and altitude	196 KCAS (195 KIAS)
V <sub>B</sub> (Speed for max. gust intensity)		211 KCAS (210 KIAS)
V <sub>FE</sub> (Flaps extended)	35° (Landing)	175 KCAS (174 KIAS)
	15° (Takeoff and approach)	201 KCAS (200 KIAS)
	7° (Takeoff and approach)	201 KCAS (200 KIAS)
V <sub>MCA</sub> Air (Takeoff)	[Min control speed]	90 KCAS (90 KIAS)



		Model 560XL (Excel/XLS/XLS+)
V <sub>MCL</sub> Air (Landing)	[Min control speed]	92 KCAS (92 KIAS)
V <sub>MCG</sub> (Minimum control speed) Ground		98 KCAS (98 KIAS)
V <sub>LO</sub> (Landing gear operating extend)		251 KCAS (250 KIAS)

11. Maximum Operating Altitude 45,000 ft. (13,716 m)
12. (Reserved) Operational Limitations section removed. See approved manual.
13. Maximum Certified Weights in lbs (kg)
- |                | <u>*S/N 560-5001 through 560-5500 * See Note 3.</u> |                       |
|----------------|---|-----------------------|
| Maximum Weight | Takeoff   | 20,000 lb. (9,072 kg) |
|                | Landing   | 18,700 lb. (8,482 kg) |
|                | Zero fuel   | 15,000 lb. (6,804 kg) |
|                | Ramp  | 20,200 lb. (9,163 kg) |
| Minimum Weight | Inflight  | 12,400 lb. (5,625 kg) |
|                |   |                       |
|                | <u>S/N 560-5501 and on</u>                          |                       |
| Maximum Weight | Takeoff   | 20,200 lb. (9,163 kg) |
|                | Landing   | 18,700 lb. (8,482 kg) |
|                | Zero fuel   | 15,100 lb. (6,849 kg) |
|                | Ramp  | 20,400 lb. (9,253 kg) |
| Minimum Weight | Inflight  | 12,400 lb. (5,625 kg) |
|                |   |                       |
|                | <u>S/N 560-6001 and on</u>                          |                       |
| Maximum Weight | Takeoff   | 20,200 lb. (9,163 kg) |
|                | Landing   | 18,700 lb. (8,482 kg) |
|                | Zero fuel   | 15,100 lb. (6,849 kg) |
|                | Ramp  | 20,400 lb. (9,253 kg) |
| Minimum Weight | Inflight  | 12,400 lb. (5,625 kg) |
|                |   |                       |
14. (Reserved) C.G. Range section removed. See approved manual.
15. Datum Zero reference datum is 221.0 inches forward of the levelling screw just aft of the cabin door on W.L. 127.25.
16. MAC 82.231 in. (Leading edge of MAC 306.593 in. aft of datum)  
NOTE: This is reference MAC for basic wing without tip.
17. Levelling means Outboard floor panel inside of door parallel to B.L. 13.00.
18. Minimum Flight Crew For all flights: 2 persons (pilot and co-pilot)
19. Maximum Seating Capacity: 2 to 14 (2 crew, 0 to 12 passengers) (See Note 2)



20. Reserved

21. Baggage/Cargo Compartment

Tailcone 700 lb. (318 kg) at 431.0 in. aft of datum

22. Wheels and Tyres Maximum ground speed 165 knots

#### **IV Operation and Service Instructions**

Airplane Flight Manual (AFM)

Airplanes must be operated according to the FAA Approved Airplane Flight Manual (AFM), part number 56XFM-12 (or later approved revision for Serials -5001 through -5500), part number 56XFMA-02 (or later approved revision for Serials -5501 and On), and part number 56XFMB-00 (or later approved revision for Serials -6001 and On)

Airplane Maintenance Manual

Model 560XL Maintenance Manual, 56XMM-22 or later approved revision. See Chapter 4, "Airworthiness Limitations" for inspections, mandatory retirement life information and other requirements for continued airworthiness. "Airworthiness Limitations" may not be changed without the approval of EASA.

#### **V. Operational Suitability Data (OSD)**

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

1. Master Minimum Equipment List

- a) 56XMMELEU-02 Revision 2 dated 09/23/2014, "EASA Master Minimum Equipment List", or later approved revision.
- b) Required for entry into service by EU operator.

2. Flight Crew Data

- a) 560XLALLOSDFC-01, Revision Original dated 21 April 2015, "EASA Operational Suitability Data (OSD), Flight Crew, Cessna Aircraft Company, Cessna Citation C560 XL/XLS/XLS+", or later approved revision.
- b) Required for entry into service by EU operator.
- c) Pilot Type Rating: C560XL/XLS

#### **VI. Notes**

NOTE 1. Certain models have been approved for high altitude operations (altitudes above 41,000 feet), either by Special Conditions or compliance with certain Part 25 sections. Any modifications to the pressure vessel must be approved in accordance with the requirements as shown in the appropriate certification basis. This includes modifications which could result in a pressure vessel opening, either through crack-growth or antenna loss, greater than the specified areas as follows:



Model 560XL	3.98 sq. in.
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NOTE 2 Model 560XL width of aisle equivalent level of safety applies to passenger seating arrangements from 7 to 12 passengers, and allows a minimum aisle width of 13 inches when measured from 25 to 27.5 inches from the dropped aisle floor. Any further reduction in aisle width requires further FAA evaluation and is not included in this grant of equivalent level of safety.

NOTE 3 Model 560XL aircraft, S/N 560-5001 through 560-5500, modified per SB560XL-32-28:  
C.G. Range (Landing Gear Extended):

Forward Limits: Linear variation from 324.30 in. aft of datum (21.54% MAC) at 20,400 lb. to 319.47 in. aft of datum (15.81 % MAC) at 12,400 lb.

Aft Limits: 331.26 in. aft of datum (30.0% MAC) from 15,000 lb. through 12,400 lb  
Linear variation from 331.26 in. aft of datum (29.37% MAC) at 17,800 lb. to  
330.74 in. aft of datum (30.0% MAC) at 15,000 lb.  
330.74 in. aft of datum (29.37% MAC) from 17,800 lb. through 20,400 lb.

Maximum Weight	
Takeoff	20,200 lb. (9,163 kg)
Landing	18,700 lb. (8,482 kg)
Zero fuel	15,100 lb. (6,849 kg)
Ramp	20,400 lb. (9,253 kg)
Minimum Weight	
Inflight	12,400 lb. (5,625 kg)

NOTE 4 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:

Unusable fuel	37.8 lb. at +333.5 in.	560XL S/N 560-5001 and on
Full oil	23.7 lb. at +433.9 in.	560XL S/N 560-5001 and on
Hyd Fluid	34.2 lb. at +354.0 in.	560XL S/N 560-5001 and on

NOTE 5 Certain Models meet the initial airworthiness requirements for operation in Reduced Vertical Separation Minimum (RVSM) airspace.

Model 560XL Citation SII	S/N 560-5001 and on.
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NOTE 6 All Model 560XL replacement seats must comply with FAR § 25.562, Emergency landing dynamic conditions, as shown in the certification basis.

NOTE 7 Model 560XL, S/N 560-5001 thru 560-5500, 560-5501 thru 560-6000, 560-6001 and on:  
Required Emergency Equipment: The basic required emergency equipment prescribed in the applicable airworthiness requirements (see certification basis) must be installed in the aircraft. Only hand fire extinguishers that use water and U.S. – UL 5B:C – Halotron BrX (2-BTP), C3H2BrF3, CAS Number 1514 82 5 OR U.S. – UL 2A:10B:C – Halotron (HCFC Blend-B), C2HCl2BrF3, CAS Number 306-83-2 are approved for use. No airplanes may have a combination of Halotron BrX AND Halotron I hand fire extinguishers installed. Refer to Regulation (EC) No 1005/2009 (as amended)



for information on controlled substances. For commercial operation CS 26.170(b) should be considered.

## **SECTION ADMINISTRATIVE**

### **I. Acronyms and Abbreviations**

ACNS:	Airborne Communications, Navigation and Surveillance
APU:	Auxiliary Power Unit
AWO:	All Weather Operation
CRI:	Certification Review Item
CS:	Certification Specification
EASA:	European Union Aviation Safety Agency
ESF:	Equivalent Safety Finding
FAA:	Federal Aviation Administration
ICAO:	International Civil Aviation Organization
JAR:	Joint Aviation Requirement
MMEL:	Master Minimum Equipment List
MEL:	Minimum Equipment List
NPA:	Notice of Proposed Amendment
INT/POL:	JAA Interim Policy
RVSM:	Reduced Vertical Separation Minima
SB:	Cessna Service Bulletin
SC:	Special Condition
S/N:	Serial Number
TCDS:	Type Certificate Data Sheet
TCDSN:	Type Certificate Data Sheet for Noise





## II. Type Certificate Holder Record

Holder's name	Holder's address	TC held from	TC held to	Note
Cessna Aircraft Company	P.O. Box 7704, Wichita, Kansas 67277, USA	14 September 2007	05 January 2016	Certificate holder's name change (ref.# Textron Aviation Inc. letter L381-15-1989)
Textron Aviation Inc.	One Cessna Boulevard Wichita, Kansas 67215, USA	06 January 2016	---	---

## III. Change Record

Issue	Date	Changes
Issue 01	14 September 2007	Initial Issue
Issue 02	05 March 2009	Added data for the Model 560XL S/N 6001 and on (XLS+) Editorial changes
Issue 03	09 October 2017	TC Holder's name change Formatting changes Editorial changes to reflect latest FAA TCDS data
Issue 4	28 August 2018	Page 53 updated requirement 25.1317(b) Am 122 added to XLS certification basis
Issue 5	02 July 2019	FAA Special Condition ref 25-674-SC, Non-Rechargeable Lithium Batteries, effective to design changes applied for after May 16, 2017. See the applicability section of this special condition for more information on which design changes must meet it. Added to Certification Basis for all models.
Issue 6	30 October 2020	Added note 7 to Section 5 regarding non-halon hand-held fire extinguishers.

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