DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

A22CE Revision 44 CESSNA 500 550 S550 552 560 560XL May 15, 1998

TYPE CERTIFICATE DATA SHEET NO. A22CE

This data sheet which is part of Type Certificate No. A22CE prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

| Type Certificate Holder | Cessna Aircraft Company P. O. Box 7704 Wichita, Kansas 67277 | |
|--------------------------------------|--|--|
| I - Model 500, Citation and Citation | I, (Transport Category), Approved September 9, 1971 | |
| Engines | Two Pratt and Whitney Aircraft of Canada, Ltd. (formerly Ur Ltd.) JT15D-1 turbofans, or Pratt and Whitney Aircraft JT151 may be interchanged in any combination. (S/N 500-0001 thr NOTES 9 and 11) | D-1 turbofans. Engines |
| | Two Pratt and Whitney Aircraft of Canada, Ltd. JT15D-1A to (S/N 500-0350 through 500-0664 except 500-0417 and 500-0 | |
| | Two Pratt and Whitney Aircraft of Canada, Ltd. JT15D-1B tu (S/N 500-0417, 500-0654, and 500-0665 through 500-0689) | ırbofans. |
| Fuel | Jet A, Jet A-1, Jet B, JP-4, JP-5 or JP-8. For required use of a emergency use of aviation gasoline, refer to the FAA Approv | e |
| Engine Limits | Static thrust, standard day, sea level: | |
| | Takeoff (5 min.) Max. continuous | 2200 lb. 2090 lb. |
| | Max. permissible engine rotor operational speeds: N_1 (Fan) JT15D-1 99 percent N_1 (Fan) JT15D-1A 102.1 percent N_1 (Fan) JT15D-1B 103.4 percent N_2 (Gas gen.) 95 percent Max. permissible interturbine gas temperatures: Takeoff Max. continuous Starting Transient (2 seconds) | 15,840 r.p.m. 16,336 r.p.m. 16,540 r.p.m. 31,120 r.p.m. 700° C. 680° C. 500° C. 720° C. |

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| I - Model 500, C | itation and Citation | I, (Transport Category), Approved Septem | ber 9, 1971 (Cont'd) |
|------------------|----------------------|---|--|
| Airspeed Lii | | V _{MO} (Maximum Operating) | |
| | | Sea level to 14,000 ft. | 260 knots |
| | | 14,000 ft. to 26,000 ft. | |
| | | (S/N 500-0001 through 500-0349) | 287 knots* |
| | | | |
| | | 14,000 ft. to 28,000 ft. | 275 1* |
| | | (S/N 500-0350 through 500-0689) | 275 knots* |
| | | M _{MO} Above 26,000 ft. | |
| | | (S/N 500-0001 through 500-0349) | 0.70 Mach |
| | | Above 28,000 ft. | |
| | | (S/N 500-0350 through 500-0689) | 0.70 Mach |
| | | V _A (Sea level) | |
| | | 10.850 lb. | 178 knots |
| | | (S/N 500-0001 through 500-0070) | |
| | | 11,500 lb. | |
| | | (S/N 500-0071 through 500-0302) | 182 knots |
| | | (B/11 500 00/1 allough 500 0502) | TO2 MIOLS |
| | | 11,850 lb. | |
| | | (S/N 500-0303 through 500-0349) | 185 knots |
| | | (S/N 500-0350 through 500-0689) | 182 knots |
| | | See AFM for variations with weight and altit | tude and optional configurations. |
| | | V _B (Speed for maximum gust intensity) | 210 knots |
| | | V _{FE} (Flaps extended) | |
| | | 40° (Landing) | 174 knots |
| | | 15° (Takeoff and approach) | 200 knots |
| | | V _{MCA} (Minimum control speed) Air | Below stall speed for all weights |
| | | V _{MCG} (Minimum control speed) Ground | 55 knots |
| | | V _{LO} (Landing gear operating) | 174 knots |
| | | V _{LE} (Landing gear extended) | 174 knots |
| | | V _{SB} (Speed brakes extended) | Any speed with or without flaps |
| | | *See NOTE 7 for restricted V_{MO} for optional | l fuel weight configuration. |
| C.G. Range | (Landing Gear Exter | nded) S/N 500-0001 through 500-0070. See I | NOTE 5 |
| U | Forward Limits: | Linear variation from 249.2 in. aft of datum | |
| | | of datum (18.0% MAC) at 7,500 lb.; 246.4 | in. aft of datum (18.0% MAC) at 7,500 lb. |
| | | or less. | |
| | Aft Limits: | 255.9 in. aft of datum (30.0 % MAC) at 10,8 | 350 lb. or less. |
| C.G. Range | (Landing Gear Exter | nded) S/N 500-0071 through 500-0302. See I | NOTE 5 |
| 2 | Forward Limits: | Linear variation from 249.7 in aft of datum (| (22.6% MAC) at 11,500 lb. to 246.4 in aft of |
| | | datum (18.0% MAC) at 7,500 lb.; 246.4 in a | aft of datum (18.0% MAC) at 7,500 lb. or |
| | Aft Limits: | less. 255.9 in. aft of datum (30.0% MAC) at 11,5 | 00 lb. or less. |
| C G Range | (Landing Gear Exter | nded) S/N 500-0303 through 500-0689 | |
| e.e. runge | Forward Limits: | - | (22.6% MAC) at 11,850 lb. to 246.4 in aft of |
| | | datum (18.0% MAC) at 7,500 lb.; 246.4 in. | |
| | | less. | |
| | Aft Limits: | 255.9 in. aft of datum (30.0% MAC) at 11,8 | 50 lb. or less. |
| | | | |

| Datum | 94.0 in. forward of the front face of the forward pressure bulkhead. | | | | | |
|-------------------------------|---|--|--|--|--|--|
| MAC | 79.61 in. (L.E. of MAC at Sta. +232.04) Note this is reference MAC for basic wing without tip. | | | | | |
| Leveling Means | Seat Rails | | | | | |
| Maximum Weight | S/N 500-0001 S/N 500-0071 S/N 500-0303 Through 500-0070 Through 500-0302 Through 500-0689 (See NOTE 5) (See NOTE 5) 11,500 lb. Takeoff 10,850 lb. 11,500 lb. 11,850 lb. Landing 10,400 lb. 11,000 lb. 11,350 lb. Zero fuel* 8,400 lb. 8,400 lb. 8,400 lb. Ramp 11,000 lb. 11,650 lb. 12,000 lb. *See NOTE 7 for optional zero fuel weights. * * * | | | | | |
| Minimum Crew | For all flights: 2 persons (pilot and co-pilot) | | | | | |
| No. of Seats | 7 to 9 (2 pilots, 5 to 7 passengers) See NOTE 8 | | | | | |
| Maximum Baggage | Nose compartment 350 lb. (at Sta. + 74.0) Aft cabin 650 lb. (at Sta. +286.3) | | | | | |
| Fuel Capacity (Gal.) | Two wing tanks: Total 276 each; usable 268 each (S/N 500-0001 through 0040) Total 277 each; usable 272 each (S/N 500-0041 through 0213) Total 287 each; usable 282 each (S/N 500-0214 through 500-0689) ARM = +256.0 in. See NOTE 1 for data on unusable fuel | | | | | |
| Oil Capacity (Quarts) | Two engine mounted tanks:JT15D-1 EngineTotal 8.9 each; usable 5.0 eachJT15D-1A EngineTotal 8.6 each; usable 5.0 eachARM - +322.0 in. | | | | | |
| Maximum Operating Altitude | 35,000 ft. (S/N 500-0001 through 0213) (See NOTE 10) 41,000 ft. (S/N 500-0214 through 500-0689) | | | | | |
| Control Surface Movements | ElevatorUp 20° $\pm 1^{\circ}$ Down 15° $\pm 1^{\circ}$ Elevator trim tabUp 7° $\pm 1^{\circ}$, -0° Down 18° $\pm 1^{\circ}$, -0° (S/N 500-0001 through 500-0129)Up 10° $\pm 1^{\circ}$, -0° Down 19° $\pm 1^{\circ}$, -0° (S/N 500-0130 through 500-0689) | | | | | |
| | RudderRight $22^{\circ} \pm 1^{\circ}$ Left $22^{\circ} \pm 1^{\circ}$ (perpendicular to hinge)Right $10^{\circ} \pm 1^{\circ}$ (perpendicular to hinge) | | | | | |
| | AileronUp $21^{\circ} \pm 1^{\circ}$ Down $16^{\circ} \pm 1^{\circ}$ Aileron trim tabUp $20^{\circ} \pm 1^{\circ}$ Down $20^{\circ} \pm 1^{\circ}$ Wing flapDown 0° to $40^{\circ} \pm 1^{\circ}$ | | | | | |
| | Speed brake - Upper Up 0° to $58^{\circ} \pm 2^{\circ}$ | | | | | |

I - Model 500, Citation and Citation I, (Transport Category), Approved September 9, 1971 (Cont'd)

See Airplane Maintenance Manual for rigging instructions

I - Model 500, Citation and Citation I, (Transport Category), Approved September 9, 1971 (Cont'd)

Certification Basis

- 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) Special Conditions as follows:
 (a) 25-25-CE-4, additional requirements for systems, airframe, flight and propulsion. See note 28.
- (4) Equivalent levels of safety as follows:
 - (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_1 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.
- (5) Exemption: 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.
- (6) FAR § 25.801 ditching not complied with.
- (7) Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

Serial Nos. Eligible: 500-0001 through 500-0689 (See NOTE 18)

II - Model 550, Citation II, (Transport Category), Approved March 24, 1978

| Engines | Two Pratt and Whitney Aircraft of Canada, Ltd. (formerly United Aircraft of Canada, Ltd.) JT15D-4 turbofans or Pratt and Whitney Aircraft JT15D-4 turbofans. |
|---------|---|
| 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. |

| | Takeoff (5 min.) | 2500 lb. |
|-----------------------|---|--------------------------|
| | Max. continuous | 2300 lb. 2375 lb. |
| | | |
| | Max. permissible engine rotor operating speeds: | 16.540 |
| | N_1 (Fan) JT15D-4 104 percent | 16,540 r.p.m. |
| | N ₂ (Gas Gen.) 96 percent | 31,450 r.p.m. |
| | Max. permissible interturbine gas temperatures: Takeoff | 700° C. |
| | Max. continuous | 680° C. |
| | Starting | 500° C. |
| | Transient (2 seconds) | 720° C. |
| | Transient (2 seconds) | 720 C. |
| Airspeed Limits (CAS) | V _{MO} (Maximum operating) | |
| | Sea level to 14,000 ft. | 260 knots |
| | 14,000 ft. to 28,000 ft. | 275 knots |
| | Sea level to 30,500 ft. | 260 knots |
| | M_{MO} Above 30,500 ft. | 0.70 Mach |
| | | 550 through 550-0800) |
| | V_A (Sea level) | |
| | 13,300 ft. | 186 knots |
| | See AFM for variations with weight and altitude and o | optional configurations. |
| | V _B (Speed for max. gust intensity) | 210 knots |
| | V _{FE} (Flaps extended) | |
| | 40° (Landing) | 174 knots |
| | 15° (Takeoff and approach) | 200 knots |
| | V _{MCA} (Minimum control speed) Air | 75 knots |
| | V _{MCG} (Minimum control speed) Ground | 62 knots |
| | V _{LO} (Landing gear operating) (S/N 550-0001 through 550-0626) | 174 knots |
| | V _{LO} (Landing gear operating extend) (S/N 550-0627 through 550-0800) | 248 knots |
| | V _{LO} (Landing gear operating retract) | 198 knots |
| | (S/N 550-0627 through 550-0800) V _{LE} (Landing gear extended) | 174 knots |
| | (S/N 550-0001 through 550-0626) | 1/4 KIIOIS |
| | V_{LE} (Landing gear extended) | 260 knots |
| | (S/N 550-0627 through 550-0800) | |
| | | ed with or without flaps |
| | *See NOTE 7 for restricted V_{MO} for optional fuel weight | |
| | S/N 550-0001 through 550-0549. | |
| | See NOTE 21 for increased V_{LO} and V_{LE} for S/N 550-0 | 0001 through 550-0626. |
| | | |
| | ended) S/N 550-0001 through 550-0626 | |
| Forward Limits: | Linear variation from 279.8 in. aft of datum (21.6% MA of datum (18.0% MAC) at 8,540 lb.; 276.1 in. aft of dat | |

285.8 in. aft of datum (30.0 % MAC) at 13,300 lb. or less.

II - Model 550, Citation II, (Transport Category), Approved March 24, 1978 (Cont'd)

or less.

Aft Limits:

| C.G. Range (Landing Gear Exte Forward Limits: | S/N 550-0627 through 550-0800 Linear variation from 280.4 in. aft of datum (23.3% MAC) at 14.100 lb. to 276.1 in. aft of datum (18.0% MAC) at 8,540 lb.; 276.1 in. aft of datum (18.0% MAC) at 8,540 lb. or less. | | | | | |
|--|--|---|--|--|--|--|
| Aft Limits: | 285.8 in. aft of datum (30.0 % MAC) at 14,100 lb. or less. | | | | | |
| Empty Wt. C.G. Range | None | | | | | |
| Datum | 94.0 in. forward of the front face of the forward pressure bulkhead. | | | | | |
| MAC | 80.98 in. (L.E. of MAC at Sta. +261.56) Note: This is reference MAC for basic wing without tip. | | | | | |
| Leveling Means | Seat Rails | | | | | |
| Maximum Weight | S/N 550-000 <u>Through 550-00</u> Takeoff 13,300 lb. Landing 12,700 lb. Zero fuel* 9,500 lb. Ramp 13,500 lb. *See NOTE 7 for optional zero for | 626 Through 550-0800 14,100 lb. . 13,500 lb. . 11,000 lb. . | | | | |
| Minimum Crew | For all flights: 2 persons (pilot a | nd co-pilot) | | | | |
| No. of Seats | 8 to 13 (2 pilots, 6 to 11 passeng See NOTE 12 | ers) | | | | |
| Maximum Baggage | Aft cabin 400 200 Tailcone 200 200 | 0 lb. at Sta. + 74.0 0 lb. at Sta. + 321.0 0 lb. at Sta. + 338.0 0 lb. at Sta. + 442.0(S/N 550-0001 through 550-0626) 0 lb. at Sta. + 431.0 and 0 lb. at Sta. + 462.0(S/N 550-0627 through 550-0800) | | | | |
| Fuel Capacity (Gal.) | Two wing tanks: Total 376 each ARM = +285. See NOTE 1 for data on unusabl | 9 in. | | | | |
| Oil Capacity (Quarts) | Two engine mounted tanks: To AF | tal 9.0 each; usable 5.7 each RM = +367.0 in. | | | | |

II - Model 550, Citation II, (Transport Category), Approved March 24, 1978 (Cont'd)

Maximum Operating Altitude

43,000 ft.

II - Model 550, Citation II, (Transport Category), Approved March 24, 1978 (Cont'd)

| Control Surface | Elevator | Up | 17° <u>+</u> 1°, -0° | Down | 15° <u>+</u> 1° |
|-----------------|----------------------------|---------|---|--------|---|
| Movements | Elevator trim tab - S/N 5 | 50-0001 | through S/N 550-0 | 0576 | |
| | | Up | 15° +1°, -0° | Down | 17° +1°, -0° |
| | Elevator trim tab - S/N 53 | 50-0577 | through 550-0800 | | |
| | | Up | 17° +1°, -0° | Down | 15° +1°, -0° |
| | Rudder | Right | 22° <u>+</u> 1° | Left | 22° <u>+</u> 1° |
| | (perpendicular to hinge | e) | | | |
| | Rudder trim tab | Right | 10° <u>+</u> 1° | Left | 10° <u>+</u> 1° |
| | (perpendicular to hinge | e) | | | |
| | Aileron | Up | 19° <u>+</u> 1° | Down | 15° <u>+</u> 1° |
| | Aileron trim tab | Up | 20° <u>+</u> 1° | Down | 20° <u>+</u> 1° |
| | Wing flap | | | Down | 0° to $40^{\circ} \pm 1^{\circ}$ |
| | Speed brake - Upper | Up | 0° to $58^{\circ} \pm 2^{\circ}$ | | |
| | See Airplane Maintenanc | e Manua | al for rigging instru | ctions | |

Certification Basis - 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.
- (3) Special Conditions as follows:
 - (a) 25-25-CE-4, additional requirements for systems, airframe, flight and propulsion. See note 28.
- (4) Equivalent levels of safety as follows:
 - (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_1 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), N₂ Digital Indicator Markings.
- (5) FAR § 25.801 ditching not complied with.
- (6) 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 19)

| I - Model S550, C | Citation S/II, (Tra | ansport Category), Approved August 15, 1984 | | | |
|--------------------------|-------------------------------------|--|---------------------------------|--|--|
| Engines | | Two Pratt and Whitney Canada, Inc. (formerly United Aircraft of Canada Ltd.) JT15D-4B turbofans. | | | |
| Fuel | | Jet A, Jet A-1, Jet B, JP-4, JP-5 or JP-8. For re emergency use of aviation gasoline, refer to the | | | |
| Engine Limits | | Static thrust, standard day, sea level: | | | |
| | | Takeoff (5 min.) Max. continuous | 2500 lb. 2375 lb. | | |
| | | Max. permissible engine rotor operating speeds | | | |
| | | N ₁ (Fan) 106 percent N ₂ (Gas Gen.) 97 percent | 16,854 r.p.m. 31,777 r.p.m. | | |
| | | Max. permissible interturbine gas temperatures Takeoff | : 710° C. | | |
| | | Max. continuous | 690° C. | | |
| | | Starting | 500° C. | | |
| | | Transient (2 seconds) | 730° C. | | |
| Airspeed Limit | S | V _{MO} (Maximum operating) | | | |
| | | Sea level to 8,000 ft. | 260 KCAS (261 KIAS) | | |
| | | 8,000 ft. to 29,315 ft. | 275 KCAS (276 KIAS) | | |
| | | M _{MO} Above 29,315 ft. | 0.72 Mach (0.72 MIAS) | | |
| | | V _A (Sea level) | | | |
| | | 14,700 lb. See AFM for variations with weight and altitud | 192 KCAS (192 KIAS) le | | |
| | | _ | | | |
| | | V _{FE} (Flaps extended) 35° (Landing) | 174 KCAS (172 KIAS) | | |
| | | 20° (Takeoff and approach) | 200 KCAS (200 KIAS) | | |
| | | V_{MCA} (Minimum control speed) Air | 84 KCAS (83 KIAS) | | |
| | | V_{MCG} (Minimum control speed) Ground | 75 KCAS (73 KIAS) | | |
| | | V _{LO} (Landing gear operating) 174 KCAS (172.2 | KIAS) | | |
| | | V _{LE} (Landing gear extended) | 174 KCAS (172 KIAS) | | |
| | | V_{SB} (Speed brakes extended | Any speed with or without flaps | | |
| | | See NOTE 21 for increased V_{LO} and V_{LE} | | | |
| Tire Limit | | Maximum ground speed | 165 knots | | |
| | | ended) S/N S550-0001 through S550-0085 | | | |
| | Forward Limits: | Linear variation from 277.7 in. aft of datum (19 of datum (15.0% MAC) at 9,600 lb.; 273.1 in. or less. | | | |
| | Aft Limits: | 284.2 in. aft of datum (28.0 % MAC) at 14,700 |) lb. or less. | | |
| | anding Gear Exte Forward Limits: | nded) S/N S550-0086 through 550-0160 Linear variation from 278.0 in. aft of datum (20 of datum (15.0% MAC) at 9,600 lb.; 273.1 in. | | | |
| | Aft Limits: | or less. 284.2 in. aft of datum (28.0 % MAC) at 15,100 |) lb or less | | |
| | ant Linnts. | 207.2 m. an of uatum (20.0 % WAC) at 13,100 | 10. 01 1035. | | |

| | | <u></u> (***** | | | | |
|-------------------------------|---|--|---|--|--|--|
| Empty Wt. C.G. Range | None | | | | | |
| Datum | 94.0 in. forward of the front face of the forward pressure bulkhead. | | | | | |
| MAC | 80.98 in. (L.E. of MAC at Sta. +261.56) NOTE: This is reference MAC for basic wing without tip. | | | | | |
| Leveling Means | Seat Rails | | | | | |
| Maximum Weight | S/N \$550-00 <u>Through \$550-00</u> Takeoff 14,700 lb. Landing 14,000 lb. Zero fuel 11,000 lb. Ramp 14,900 lb. | 0085 <u>Through S55</u> 15,100 lb 14,400 lb 11,200 lb | 50-0160 b b. b. | | | |
| Minimum Crew | For all flights: 2 persons (pilot a | und co-pilot) | | | | |
| No. of Seats | 8 to 13 (2 pilots, 6 to 11 passeng | ers) | | | | |
| Maximum Baggage | Nose Compartment Aft Cabin Tailcone | 350 lb. (at Sta. + 400 lb. (at Sta. +3 200 lb. (at Sta. +3 200 lb. (at Sta. +4 300 lb. (at Sta. +4 300 lb. (at Sta. +4 | 321.0) 338.0) 442.0) | | | |
| Fuel Capacity (Gal.) | Two wing tanks: Total 437 each; usable 431.5 each ARM = +282.7 in. See NOTE 1 for data on unusable fuel | | | | | |
| Oil Capacity (Quarts) | Two engine mounted tanks: Total 9.0 each; usable 5.7 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 Isoproj | opyl alcohol Approved | | | |
| Maximum Operating Altitude | 43,000 ft. | | | | | |
| Control Surface Movements | Elevator trim tabUpRudderRight(perpendicular to hinge)Rudder trim tabRight(perpendicular to hinge)AileronUpAileron trim tabUpWing flap | $5^{\circ} + 1^{\circ}, -0^{\circ} \qquad I$ $22^{\circ} \pm 1^{\circ}$ $10^{\circ} \pm 1^{\circ} \qquad I$ $20^{\circ} \pm 1^{\circ} \qquad I$ $0^{\circ} \text{ to } 58^{\circ} \pm 2^{\circ}$ | Down $15^{\circ} \pm 1^{\circ}$ Down $17^{\circ} \pm 1^{\circ}, -0^{\circ}$ Left $22^{\circ} \pm 1^{\circ}$ Left $10^{\circ} \pm 1^{\circ}$ Down $15^{\circ} \pm 1^{\circ}$ Down $20^{\circ} \pm 1^{\circ}$ Down 0° to $35^{\circ} \pm 1^{\circ}$ tions | | | |

III - Model S550, Citation S/II, (Transport Category), Approved August 15, 1984 (Cont'd)

III - Model S550, Citation S/II, (Transport Category), Approved August 15, 1984 (Cont'd)

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.
- (4) Special Conditions as follows:
 - (a) 25-25-CE-4, additional requirements for systems, airframe, flight and propulsion. See note 28.
- (5) Equivalent levels of safety as follows:
 - (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_1 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), N₂ Digital Indicator Markings.
 - (i) FAR § 25.813(e), Frangible door.
- (6) FAR § 25.801 ditching not complied with.
- (7) Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

Serial Nos. Eligible: S550-0001 through S550-0160

IV - Model 552, Navy T-47A, (Transport Category), Approved November 21, 1984

EnginesTwo Pratt and Whitney Canada, Inc. (formerly United Aircraft of Canada, Ltd.) JT15D-5
turbofans.FuelJet A, Jet A-1, Jet B, JP-4, JP-5 or JP-8. For required use of anti-icing additives, refer to
the FAA Approved Airplane Flight Manual.

| Engine Limits | Static thrust, standard day, sea level: | | | |
|--|---|--|--|--|
| | Takeoff (5 min.) Max. continuous | 2900 lb. 2900 lb. | | |
| | Max. permissible engine rotor operating speed | s: | | |
| | N_1 (Fan) 104 percent N_2 (Gas Gen.) 96 percent | 16,540 r.p.m. 31,450 r.p.m. | | |
| | Max. permissible interturbine gas temperature | s: | | |
| | Takeoff | 700° C. | | |
| | Max. continuous | 680° C. | | |
| | Starting | 550° C. | | |
| | Transient (2 seconds) | 720° C. | | |
| Airspeed Limits | V _{MO} (Maximum operating) | | | |
| | Sea level | 355 KCAS (358 KIAS) | | |
| | 27,425 ft. | 299 KCAS (300 KIAS) | | |
| | Linear variation between altitudes | | | |
| | M_{MO} Above 27,425 ft. | 0.75 Mach (0.755 MIAS) | | |
| | V _A (Sea level) | | | |
| | 15,500 lb. | 215 KCAS (216 KIAS) | | |
| | See AFM for variations with weight and altitude and optional configurations. | | | |
| | V_{FE} (Flaps extended) | de and optional configurations. | | |
| | | 174 VCAS (172 VIAS) | | |
| | 35° (Landing) | 174 KCAS (173 KIAS) | | |
| | 20° (Takeoff and approach) | 200 KCAS (201 KIAS) | | |
| | V _{MCA} (Minimum control speed) Air | 85 KCAS (84 KIAS) | | |
| | V _{MCG} (Minimum control speed) Ground | 82 KCAS (78 KIAS) | | |
| | V _{LO} (Landing gear operating) 174 KCAS (173 | KIAS) | | |
| | V _{LE} (Landing gear extended) | 174 KCAS (173 KIAS) | | |
| | V _{SB} (Speed brakes extended | Any speed with or | | |
| | | without flaps | | |
| Tire Limit | Maximum ground speed | 165 knots | | |
| | (and a d | | | |
| C.G. Range (Landing Gear Ext | ended) | | | |
| C.G. Range (Landing Gear Ext Forward Limits: | | | | |
| | Linear variation from 279.1 in. aft of datum (2 | | | |
| | Linear variation from 279.1 in. aft of datum (2 of datum (15.82% MAC) at 9,400 lb.; 274.4 | in. aft of datum (15.82% MAC) at 9,400 | | |
| Forward Limits: | Linear variation from 279.1 in. aft of datum (2 of datum (15.82% MAC) at 9,400 lb.; 274.4 or less. | in. aft of datum (15.82% MAC) at 9,400 | | |
| Forward Limits: Aft Limits: Empty Wt. C.G. Range | Linear variation from 279.1 in. aft of datum (2 of datum (15.82% MAC) at 9,400 lb.; 274.4 or less. 282.6 in. aft of datum (26.0 % MAC) at 15,50 | in. aft of datum (15.82% MAC) at 9,400 0 lb. or less. | | |
| | Linear variation from 279.1 in. aft of datum (2 of datum (15.82% MAC) at 9,400 lb.; 274.4 or less. 282.6 in. aft of datum (26.0 % MAC) at 15,50 None | in. aft of datum (15.82% MAC) at 9,400 0 lb. or less. d pressure bulkhead. | | |
| Forward Limits: Aft Limits: Empty Wt. C.G. Range Datum MAC | Linear variation from 279.1 in. aft of datum (2 of datum (15.82% MAC) at 9,400 lb.; 274.4 or less. 282.6 in. aft of datum (26.0 % MAC) at 15,50 None 94.0 in. forward of the front face of the forwar 80.98 in. (L.E. of MAC at Sta. +261.56) | in. aft of datum (15.82% MAC) at 9,400 0 lb. or less. d pressure bulkhead. | | |
| Forward Limits: Aft Limits: Empty Wt. C.G. Range Datum MAC Leveling Means | Linear variation from 279.1 in. aft of datum (2 of datum (15.82% MAC) at 9,400 lb.; 274.4 or less. 282.6 in. aft of datum (26.0 % MAC) at 15,50 None 94.0 in. forward of the front face of the forwar 80.98 in. (L.E. of MAC at Sta. +261.56) NOTE: This is reference MAC for basic wing Seat Rails | in. aft of datum (15.82% MAC) at 9,400 0 lb. or less. d pressure bulkhead. without cuff | | |
| Forward Limits: Aft Limits: Empty Wt. C.G. Range Datum | Linear variation from 279.1 in. aft of datum (2 of datum (15.82% MAC) at 9,400 lb.; 274.4 or less. 282.6 in. aft of datum (26.0 % MAC) at 15,50 None 94.0 in. forward of the front face of the forwar 80.98 in. (L.E. of MAC at Sta. +261.56) NOTE: This is reference MAC for basic wing Seat Rails Takeoff | in. aft of datum (15.82% MAC) at 9,400 0 lb. or less. d pressure bulkhead. without cuff 15,500 lb. | | |
| Forward Limits: Aft Limits: Empty Wt. C.G. Range Datum MAC Leveling Means | Linear variation from 279.1 in. aft of datum (2 of datum (15.82% MAC) at 9,400 lb.; 274.4 or less. 282.6 in. aft of datum (26.0 % MAC) at 15,50 None 94.0 in. forward of the front face of the forwar 80.98 in. (L.E. of MAC at Sta. +261.56) NOTE: This is reference MAC for basic wing Seat Rails Takeoff Landing | in. aft of datum (15.82% MAC) at 9,400 0 lb. or less. d pressure bulkhead. without cuff 15,500 lb. 14,300 lb. | | |
| Forward Limits: Aft Limits: Empty Wt. C.G. Range Datum MAC Leveling Means | Linear variation from 279.1 in. aft of datum (2 of datum (15.82% MAC) at 9,400 lb.; 274.4 or less. 282.6 in. aft of datum (26.0 % MAC) at 15,50 None 94.0 in. forward of the front face of the forwar 80.98 in. (L.E. of MAC at Sta. +261.56) NOTE: This is reference MAC for basic wing Seat Rails Takeoff | in. aft of datum (15.82% MAC) at 9,400 0 lb. or less. d pressure bulkhead. without cuff 15,500 lb. | | |

IV - Model 552, Navy T-47A, (Transport Category), Approved November 21, 1984 (Cont'd)

| Minimum Crew | For all flights: 2 Pilots | | | | | |
|-------------------------------------|---|--|--|--|--|--|
| No. of Seats | 6 (2 pilots, 4 passengers) | | | | | |
| Maximum Baggage | None | | | | | |
| Fuel Capacity (Gal.) | Two wing tanks: Total 414 each; usable 412 each ARM = +282.7 in. See NOTE 1 for data on unusable fuel | | | | | |
| Oil Capacity (Quarts) | Two engine mounted tanks: Total 8.1 each; usable 4.8 each ARM +367.0 in. | | | | | |
| Fluid Anti-Ice System (Airframe) | Capacity: 65.5 lb. ARM 86.3 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. Approved Anti-Ice Fluid: TT-I-735 Isopropyl Alcohol | | | | | |
| Maximum Operating Altitude | 43,000 ft. | | | | | |
| Control Surface Movements | ElevatorUp $20^{\circ} \pm 1^{\circ}$ Down $15^{\circ} \pm 1^{\circ}$ Elevator trim tabUp $5^{\circ} + 1^{\circ}, -0^{\circ}$ Down $17^{\circ} + 1^{\circ}, -0^{\circ}$ RudderRight $22^{\circ} \pm 1^{\circ}$ Left $22^{\circ} \pm 1^{\circ}$ (perpendicular to hinge)Right $10^{\circ} \pm 1^{\circ}$ Left $10^{\circ} \pm 1^{\circ}$ AileronUp $16^{\circ} + 2^{\circ}, -0^{\circ}$ Down $14^{\circ} + 2^{\circ}, -0^{\circ}$ Wing flapDown 0° to $58^{\circ} \pm 2^{\circ}$ Speed brake - UpperUp 0° to $58^{\circ} \pm 2^{\circ}$ See Airplane Maintenance Manual for rigging instructions $15^{\circ} \pm 1^{\circ}$ $15^{\circ} \pm 1^{\circ}$ | | | | | |

IV - Model 552, Navy T-47A, (Transport Category), Approved November 21, 1984 (Cont'd)

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; §§ 25.1303 and 25.1385(c) as amended by Amendments 25-1 through 25-38; § 25.255 as amended by Amendments 25-1 through 25-42; and § 25.1001 as amended by Amendments 25-1 through 25-57.

(b) Addition for aileron boost system only:FAR §§ 25.671 and 25.672 as amended by Amendments 25-1 through 25-23.

- (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.

IV - Model 552, Navy T-47A, (Transport Category), Approved November 21, 1984 (Cont'd)

Certification Basis (Cont'd)

- (4) Special Conditions as follows:
 - (a) 25-25-CE-4, additional requirements for systems, airframe, flight and propulsion. See note 28.
- (5) Equivalent levels of safety as follows:
 - (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; and
 - (g) FAR § 25.1549(a) and (b), N₂ Digital Indicator Markings.
- (5) Exemption: Exemption number NM-105 granted. Model 552 exempt from requirements of FAR §§ 25.1303 and 25.1321 for required instruments, instrument panel arrangement and visibility of instruments.
- (6) FAR § 25.801 ditching not complied with.
- (7) Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

Serial Nos. Eligible: 552-0001 through 552-0015 (See Note 23)

V - Model 560, Citation V and Citation Ultra, (Transport Category), Approved December 9, 1988

| Engines | S/N 560-0001 through 560-0259 Two Pratt & Whitney of Canada, Inc. JT15D-5A turbofans | | |
|-----------------------|--|------------------|------------------|
| | S/N 560-0260 through 560-5000 Two Pratt & Whitney of Canada, Inc. JT15D-5D turbofans | | |
| Fuel | Jet A, Jet A-1, Jet B, JP-4, JP-5 or JP-8. emergency use of aviation gasoline, refe | • | 0 |
| Engine Limits | Static thrust, standard day, sea level: | | |
| C | | <u>JT15D-5A</u> | <u>JT15D-5D</u> |
| | Takeoff (5 min.) | 2900 | 3045 |
| | Max. continuous | 2900 | 3045 |
| | Max. permissible engine rotor operating | speeds: | |
| | | <u>JT15D-</u> 5A | JT15D <u>-5D</u> |
| | N_1 (Fan) | 104% | 100% |
| | | 16540 r.p.m. | 16860 rpm |
| | N ₂ (Gas Gen.) | 96% | 97% |
| | 2 \ | 31450 rpm | 31777 rpm |
| Engine Limits (Cont.) | Max. permissible interturbine gas tempe | ratures: | |
| 8 | | JT15D-5A | JT15D-5D |
| | Takeoff | 700° C | 720° C |
| | Max. continuous | 680° C | 700° C |
| | Starting | 550° C | 550° C |
| | Transient (2 seconds) | 720° C | 740° C |
| | | | |

| | | <u>eon</u> u) |
|---|---|---|
| Airspeed Limits | V_{MO} (Maximum operating) Sea level to 8000 ft. 8000 ft. to 28,907 ft. | 260 KCAS (261 KIAS) 290 KCAS (292 KIAS)* |
| | M _{MO} Above 28,907 ft. | 0.75 Mach (0.755 MIAS) |
| | V _A (Sea level) 15,900 lb. | 201 KCAS (202 KIAS) |
| | See AFM for variations with weight and altitude | |
| | V_{FE} (Flaps extended) | 174 KCAS (172 KIAS) |
| | 35° (Landing) 15° (Takeoff and approach) | 174 KCAS (173 KIAS) |
| | 7° (Takeoff) | 199 KCAS (200 KIAS) 199 KCAS (200 KIAS) |
| | *See NOTE 7 for restricted V_{MO} for optional fuel w | eight configuration |
| | V _{MCA} (Minimum control speed) Air | 84 KCAS (85 KIAS) |
| | V _{MCG} (Minimum control speed) Ground | 85.5 KCAS (86 KIAS) |
| | V_{LO} (Landing gear operating extend) | 249 KCAS (250 KIAS) |
| | V_{LO} (Landing gear operating retract) V_{LE} (Landing gear extended) | 199 KCAS (200 KIAS) 290 KCAS (292 KIAS) |
| | V_{LE} (Landing gear extended) V_{SB} (Speed brakes extended Any speed with or with | |
| | See NOTE 22 for V_{LO} and V_{LE} for 12,200 lb. ZFW | |
| Tire Limit | Maximum ground speed | 165 knots |
| C.G. Range (Landing Gear Exte Forward Limits: Aft Limits: | nded) S/N 560-0001 through 560-0259 Linear variation from 296.03 in. aft of datum (17.87 aft of datum (15.0% MAC) at 11,500 lb.; 293.71 in 11,500 lb. or less. 304.23 in. aft of datum (28.0 % MAC) at 15,900 lb. | n. aft of datum (15.0% MAC) at |
| | | |
| C.G. Range (Landing Gear Exte Forward Limits: | nded) S/N 560-0260 through 560-5000 Linear variation from 296.24 in. aft of datum (18.13 aft of datum (15.0% MAC) at 11,500 lb.; 293.71 in | |
| Aft Limits: | 11,500 lb. or less. 304.23 in. aft of datum (28.0 % MAC) at 16,300 lb. | or less. |
| Empty Wt. C.G. Range | None | |
| Datum | 94.0 in. forward of the front face of the forward pre- | ssure bulkhead. |
| MAC | 80.98 in. (L.E. of MAC at Sta. +281.56) NOTE: This is reference MAC for basic wing with | out leading edge cuff and tip |
| Leveling Means | Seat Rails | |
| Maximum Weight | Through 560-0259 Through 560-0259 Takeoff 15,900 lb. 16 Landing 15,200 lb. 15 Zero fuel 11,200 lb.* 12 | V 560-0260 <u>igh 560-5000</u> 5,300 lb. 5,200 lb. 2,200 lb. 6,500 lb. |

*See NOTE 7 for optional zero fuel weight

| Minimum Crew | For all flights: 2 persons (pilot | and co-pilot) | | |
|-------------------------------|---|--|--------------------------------------|---|
| No. of Seats | 9 to 13 (2 pilots, 7 to 11 passengers) | | | |
| Maximum Baggage | Nose Compartment Aft Cabin Tailcone | 350 lb. (at Sta. 600 lb. (at Sta. 300 lb. (at Sta. 200 lb. (at Sta. | +348.0) +434.0) | |
| Fuel Capacity (Gal.) | Two wing tanks: Total 431.9 ea A See NOTE 1 for data on unusab | RM = 302.7 in. | ch | |
| Oil Capacity (Quarts) | S/N 560-0001 through 560-0259 Two engine-mounted tanks: Total 8.1 each; usable 4.8 each ARM = +387.0 in. | | | |
| | S/N 560-0260 through 560-500 Two engine mounted tanks: To A | | 4.7 each | |
| Windshield Anti-Ice Fluid | Capacity: 3.4 lb., ARM = +91.4 Approved Anti-Ice Fluids: TT- | | hol | |
| Maximum Operating Altitude | 45,000 ft. | | | |
| Control Surface Movements | Elevator trim tab UI Rudder Righ (perpendicular to hinge) Rudder trim tab Righ (perpendicular to hinge) Aileron UI Aileron trim tab UI Wing flap | 19° <u>+</u> 1° | Down Left Left Down Down | , |

See Airplane Maintenance Manual for rigging instructions

Certification Basis - 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;

(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.

Certification Basis - Citation V - S/N 560-0001 through 560-0259 (Cont'd):

(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) Special Conditions as follows:
 - (a) 25-25-CE-4, additional requirements for systems, airframe, flight and propulsion. See note 28.
 - (b) 25-ANM-21, additional requirements for High Altitude Operation (45,000 feet). See note 26.
- (5) Equivalent levels of safety as follows:
 - (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.
- (6) FAR § 25.801 ditching not complied with.
- (7) Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

Certification Basis - Citation Ultra - S/N 560-0260 through 560-5000:

 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, 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) Special Conditions as follows:
 - (a) 25-25-CE-4, additional requirements for systems, airframe, flight and propulsion. See note 28.
 - (b) 25-ANM-21, additional requirements for High Altitude Operation (45,000 feet). See note 26.
 - (c) 25-ANM-79, additional requirements for Lighting and High Intensity Radiated Fields (HIRF).

Certification Basis - Citation Ultra - S/N 560-0260 through 560-5000 (Cont'd):

- (5) Equivalent levels of safety as follows:
 - (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 N_1 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.
- (6) FAR § 25.801 ditching not complied with.
- (7) Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

Serial Nos. Eligible: 560-0001 through 560-0259 (Citation V) 560-0260 through 560-5000 (Citation Ultra)

VI - Model 550, (Bravo), (Transport Category), Approved January 8, 1997

| Engines | Two Pratt & Whitney of Canada, Inc. PW530A Turbofans | |
|-----------------|--|--|
| Fuel | Jet A, Jet A-1, JP-5, or JP-8. For use of anti- Airplane Flight Manual. | icing additives, refer to the FAA Approved |
| Engine Limits | Static thrust, standard day, sea level: | |
| | Takeoff (5 min.) | 2887 lb. |
| | Max. continuous | 2843 lb. |
| | Max. permissible engine rotor operating spee | ds: |
| | N ₁ (Fan) PW530A 100 percent | 15,750 r.p.m. |
| | N ₂ (Gas Gen.) 100 percent | 32,150 r.p.m. |
| | Max. permissible interturbine gas temperature | es: |
| | Takeoff | 700° C. |
| | Max. continuous | 700° C. |
| | Starting | 690° C. |
| | Transient (20 seconds) | 740° C. |
| Airspeed Limits | V _{MO} (Maximum operating) | |
| | Sea level to 8,000 ft. | 260 KCAS (260 KIAS) |
| | 8,000 ft. to 27,900 ft. | 275 KCAS (275 KIAS) |
| | M _{MO} Above 27,900 ft. | 0.70 Mach (0.70 MIAS) |
| | V _A (Sea level) | |
| | 14,800 lb. | 190 KCAS (190 KIAS) |
| | See AFM for variations with weight, altitude | de and optional configurations. |
| | V_B (Speed for max. gust intensity) V_{FE} (Flaps extended) | 210 KCAS (210 KIAS) |
| | 40° (Landing) | 174 KCAS (174 KIAS) |
| | 15° (Takeoff and Approach) | 200 KCAS (200 KIAS) |
| | V _{MCA} (Minimum control speed) Air | 79 KCAS (78 KIAS) |
| | V _{MCG} (Minimum control speed) Ground | 92 KCAS (89 KIAS) |
| | • • | |

| Airspeed Limits (Cont'd) | | | |
|---|---|-----------------------|--|
| | V_{LO} (Landing gear opera V_{LO} (Landing gear opera V_{LE} (Landing gear extend V_{SB} (Speed brakes extended) | ting retract) ded) | 250 KCAS (250 KIAS) 200 KCAS (200 KIAS) 260 KCAS (260 KIAS) Any speed with or without flaps |
| Tire Limit | Maximum ground speed | | 165 knots |
| C.G. Range (Landing Gear Exte Forward Limits: Aft Limits: | Linear variation from 280. aft of datum (18.54 % MA | AC) at 9,147 lb. | (23.99% MAC) at 14,800 lb. to 276.57 in. 4,800 lb. through 8,670 lbs. |
| Empty Wt. C.G. Range | None | | |
| Datum | Zero reference datum is | 93.7 inches forward | d of the nose jack point. |
| MAC | 80.98 in. (Leading edge | of MAC 261.56 in. | aft of datum) |
| Leveling Means | Lower seat rail RBL 9.0 | in. starting at 206.0 | 0 in aft of datum. |
| Maximum Weight | Takeoff14,800 lb.Landing13,500 lb.Zero fuel11,300 lb.Ramp15,000 lb. | | |
| Minimum Weight | Inflight Forward C Note: Linear variation b | C.G. Limit: 9,147 | |
| Minimum Crew | For all flights: 2 persons | s (pilot and co-pilo | t) |
| No. of Seats | 8 to 13 (2 pilots, 6 to 11 See NOTE 12 | passengers) | |
| Maximum Baggage | Nose compartment (w/sto Aft cabin Tailcone | d equip.) | 350 lb. at Sta. + 74.0 600 lb. at Sta. +321.0 300 lb. at Sta. +414.0 and 200 lb. at Sta. +442.0 |
| Fuel Capacity (Gal.) | Two wing tanks: Total 3 ARM 287.0 ir See NOTE 1 for data on | 1. | |
| Oil Capacity (Quarts) | Two engine mounted tan ARM 366.85 | | ; usable 1.9 each |
| Maximum Operating Altitude | 43,000 ft. | | through 550-0820) Through 550-0823) |
| | 45,000 ft. | See NOTE 25 f | 550-0824 and on) for S/N 550-0801 20 & 550-0822 through 550-0823 |

VI - Model 550, (Bravo), (Transport Category), Approved January 8, 1997 (Cont'd)

| Control Surface | Elevator | Up 20° <u>+</u> 1° | Down $15^{\circ} \pm 1^{\circ}$ |
|-----------------|---|--------------------------------------|---|
| Movements | Elevator trim tab | Up 7° +1°, -1° | Down $8^{\circ} + 1^{\circ}$, -1° |
| | Rudder (perpendicular to hinge) | Right $22^{\circ} \pm 1^{\circ}$ | Left $22^{\circ} \pm 1^{\circ}$ |
| | Rudder trim tab (perpendicular to hinge) | Right $10^{\circ} \pm 1^{\circ}$ | Left $10^{\circ} \pm 1^{\circ}$ |
| | Aileron | Up 19° <u>+</u> 1° | Down $15^{\circ} \pm 1^{\circ}$ |
| | Aileron trim tab | Up $20^{\circ} \pm 1^{\circ}$ | Down $20^{\circ} \pm 1^{\circ}$ |
| | Wing flap | Down 0° to 40° | <u>+</u> 1° |
| | Speed brake - Upper | Up 0° to $58^{\circ} \pm 2$ | 0 |
| | See Airplane Maintenance Manual for | r rigging instructions | |

VI - Model 550, (Bravo), (Transport Category), Approved January 8, 1997 (Cont'd)

Certification Basis - 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) 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 26.

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.
- (4) Special Conditions as follows:
 - (a) 25-ANM-120, additional requirements for High Intensity Radiated Fields (HIRF).
- (5) Equivalent levels of safety as follows:
 - (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), N₂ Digital Indicator Markings.
- (6) FAR § 25.801 ditching not complied with.

VI - Model 550, (Bravo), (Transport Category), Approved January 8, 1997 (Cont'd)

Certification Basis - S/N 550-0801 and on (Cont'd):

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

Serial Nos. Eligible: 550-0801 and on

VII - Model 560XL, (Excel), (Transport Category), Approved April 22, 1998.

| Engines | | Two Pratt & Whitney of Canada, Inc. PW545A Turbofans | |
|-----------------|--------------------------------------|---|--|
| Fuel | | Jet A, Jet A-1, JP-5, or JP-8. For use of anti- Approved Airplane Flight Manual. | icing additives, refer to the FAA |
| Engine Limits | | Static thrust standard day, sea level: | |
| | | Takeoff (5 min.) | 3804 lb. |
| | | Max. continuous | 3804 lb. |
| | | Max. permissible engine rotor operating spe | eds (PW 545A): |
| | | N_1 (Fan) 100 percent | 13,034 r.p.m. |
| | | N_2 (Gas Gen.) 100 percent | 32,700 r.p.m. |
| | | Max. permissible interturbine gas temperatu | · 1 |
| | | Takeoff | 720° C. |
| | | Max. continuous | 720° C. |
| | | Starting | 720° C. |
| | | Transient (20 seconds) | 760° C. |
| Airspeed Limits | | V _{MO} (Maximum operating) | |
| | | Sea level to 8,000 ft. | 261 KCAS (260 KIAS) |
| | | 8,000 ft. to 26,515 ft. | 306 KCAS (305 KIAS) |
| | | M_{MO} Above 26,515 ft. | 0.752 Mach (0.750 MIAS) |
| | | V _A (Sea level) | |
| | | 20,000 lb. | 196 KCAS (195 KIAS) |
| | | See AFM for variations with weight and alti | |
| | | V_B (Speed for max. gust intensity) V_{FE} (Flaps extended) | 211 KCAS (210 KIAS) |
| | | 35° (Landing) | 175 KCAS (174 KIAS) |
| | | 15° (Takeoff and approach) | 201 KCAS (200 KIAS) |
| | | V _{MCA} Air (Takeoff) [Min control speed] | 90 KCAS (90 KIAS) |
| | | V_{MCL} Air (Landing) [Min control speed] | 92 KCAS (92 KIAS) |
| | | V_{MCG} (Minimum control speed) Ground | 98 KCAS (98 KIAS) |
| | | V_{LO} (Landing gear operating extend) | 251 KCAS (250 KIAS) |
| Tire Limit | | Maximum ground speed | 165 knots |
| C C Darra (| anding Court Fort | ndad) | |
| - | anding Gear Exter Forward Limits: | Linear variation from 324.060 in. aft of datum | a (21.24% MAC) at 20,000 lb. to 319.47 in. |
| | | aft of datum (15.66 % MAC) at 12,400 lb. | |
| A | Aft Limits: | 329.618 in. aft of datum (28.0 % MAC) from | 20,000 lb. through 12,400 lb. |
| Empty Wt. C.G. | Range | None | |

| Datum | Zero reference datum cabin door on W.L. 12 | is 221.0 inches forward o 27.25. | of the leveling screw | just aft of the |
|-------------------------------|---|--|---|--|
| MAC | | dge of MAC 306.593 in. ence MAC for basic wing | | |
| Leveling Means | Outboard floor panel | inside of door parallel to | B.L. 13.00. | |
| Maximum Weight | Takeoff Landing Zero fuel Ramp | 20,000 lb. 18,700 lb. 14,500 lb. 20,200 lb. | | |
| Minimum Weight | Inflight | 12,400 lb. | | |
| Minimum Crew | For all flights: 2 pers | ons (pilot and co-pilot) | | |
| No. of Seats | 9 to 13 (2 pilots, 7 to | 11 passengers) (See Note | e 29) | |
| Maximum Baggage | Tailcone: 700 lb. at | 431.0 in. aft of datum | | |
| Fuel Capacity (Gal.) | U | al 512.2 each; usable 509 8 in. aft of datum on unusable fuel. | 9.4 each | |
| Oil Capacity (Quarts) | U U | tanks: Total 6.1 each; us 9 in. aft of datum | able 2.4 each | |
| Maximum Operating Altitude | 45,000 ft. | | | |
| Control Surface Movements | Elevator (with stabili Elevator trim tab (wit Rudder (perpendicula | h stabilizer at + 1°) | Up $19^\circ + 1^\circ, -0^\circ$ Up $5^\circ \pm 1^\circ$ Right $22^\circ \pm 1^\circ$ | Down $15^{\circ} \pm 1^{\circ}$ Down $15^{\circ} \pm 1^{\circ}$ Left $22^{\circ} + 1^{\circ}$, -0° |
| | Rudder trim tab | o hinge with Rudder cent | Right $11.5^{\circ} \pm 0.5^{\circ}$ | Left $11.5^{\circ} \pm 0.5^{\circ}$ |
| | Aileron Aileron trim tab Wing flap Speed brake - Upper - Lower 2-position Horizontal | stabilizer) & Landing | Up $19^{\circ} \pm 1^{\circ}$ Up $20^{\circ} \pm 2^{\circ}$ 0° , and extend 7° , Up $60^{\circ} \pm 2^{\circ}$ Up $65^{\circ} \pm 2^{\circ}$ $-2^{\circ} + 0^{\circ}, -0.1^{\circ}$ $+ 1^{\circ} + 0.1^{\circ}, -0^{\circ}$ | Down 15° ± 1° Down 20° ± 2° 15°, 35° ± 1° |
| | See Airplane Mainten | ance Manual for rigging | instructions. | |

VII - Model 560XL, (Excel), (Transport Category), Approved April 22, 1998 (Cont'd)

Certification Basis:

(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.

VII - Model 560XL, (Excel), (Transport Category), Approved April 22, 1998 (Cont'd)

Certification Basis (Cont'd):

(b) Exceptions (as shown in table):

| SECTION | TITLE | EFFECTIVE | EXCEPTIONS |
|---------|---|--|---|
| NO. | | AMENDMENT | [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 | Control Systems - General. | | |
| | • Applicable to the 2-position horizontal stabilizer. | 25-82 | None |
| | • All other airplane control systems. | Original Issue Applicable | § 25.671 as amended by Amdts. 25-23 and later, not applicable |
| 25.677 | Trim Systems. | | |
| | • Applicable to the 2-position horizontal stabilizer. | 25-82 | None |
| | • All other airplane trim systems, including the elevator trim. | Original Issue Applicable | § 25.677 as amended by Amdts. 25-23 and later, not applicable |
| 25.1309 | Equipment, systems, and installations. Applicable to Electronic Flight Instrument systems (Honeywell Primus 1000 Cockpit Display), Flight Guidance, hydraulic, electrical, pressurization system, and 2-position horizontal stabilizer only. | 25-82 | None |
| | • All other airplane systems. | Original Issue Applicable | § 25.1309 as amended by Amdts. 25-23 and later, not applicable. |

(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) Special Conditions as follows:
 - (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.
- (5) Exemption: Exemption number 6706 granted. Model 560XL exempt from requirements of FAR § 25.677(b) for horizontal stabilizer position indicator.

VII - Model 560XL, (Excel), (Transport Category), Approved April 22, 1998 (Cont'd)

Certification Basis (Cont'd):

- (6) Equivalent levels of safety as follows:
 - (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 N_2 ; and
 - (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).
- (7) FAR § 25.801 ditching not complied with.
- (8) Compliance with ice protection has been demonstrated in accordance with FAR § 25.1419.

Serial Nos. Eligible: 560-5001 and on

Data Pertinent to All Models

Application for Type Certificate dated July 16, 1968. Type Certificate No. A22CE issued September 9, 1971.

- Production Basis (All Models) Production Certificate No. 4 effective June 1, 1985. Production Certificate No. 312 effective September 9, 1971, through May 31, 1985. Effective February 15, 1985, and on, Production Certificate No. 4 is applicable to all spares production. See NOTE 14 for specific effectivity of P.C. 4 on new airplane serials.
- Equipment The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification.
- NOTE 1. Current weight and balance report including list of equipment included in certificated empty weight, and loading instructions when necessary must be provided for each aircraft at the time of original certification.

The certified empty weight and corresponding center of gravity location must include:

| Unusable fuel | 96.0 lb. at +247.0 in. | (500, S/N 500-0001 through 500-0040) |
|---------------|-------------------------|---|
| | 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) |
| | 52.8 lb. at +298.4 in. | (550, S/N 550-0001 through 550-0800) |
| | 47.2 lb. at +281.7 in. | (550, S/N 550-0801 and on) |
| | 60.0 lb. at +285.5 in. | (S550, S/N S550-0001 through S550-0160) |
| | 20.0 lb. at +288.0 in. | (552) |
| | 20.0 lb. at +308.0 in. | (560) |
| | 37.8 lb. at +333.5 in. | (560XL) |
| 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) |
| | 34.7 lb. at +367.0 in. | (550, S/N 550-0001 through 550-0800) |
| | 34.7 lb. at +367.0 in. | (\$550) |
| | 31.2 lb. at +367.0 in. | (552) |
| | 31.3 lb. at +387.0 in. | (560 Citation V, S/N 560-0001 through -0259) |
| | 32.2 lb. at +387.0 in. | (560 Ultra, S/N 560-0260 through 560-5000) |
| | 19.3 lb. at +366.9 in. | (550 Bravo, 550-0801 and on) |
| | 23.7 lb. at +433.9 in. | (560XL) |
| | 2017 101 at + 10019 int | (000112) |

| Hydraulic fluid | 27.5 lb. at +284.0 in. 16.3 lb. at +341.8 in. 17.8 lb. at +342.7 in. 31.5 lb. at +300.3 in. 31.5 lb. at +320.3 in. 34.2 lb. at +354.0 in. | (500) (550-0001 through 550-0733) (550-0801 and on) (S550 and 552) (560) (560XL) |
|--------------------------------|--|---|
| Anti-Ice fluid (Airframe) | 15.2 lb. at +82.3 in. 65.5 lb. at +86.3 in. | (\$550) (552) |
| Anti-Ice fluid (Windshield) | 3.4 lb. at +91.4 in. | (500, 550, S550, 552, and 560) |

- NOTE 2. Airplanes must be operated according to the FAA Approved Airplane Flight Manual. Required placards are listed on Cessna Drawing 5500000 for Model 500, Drawing 6500000 for Models 550 and S550, 6400001 for Model 552, Cessna Drawings 6500560 and 4811243 for Model 560, and are also included in Chapter XI of the Airplane Maintenance Manual.
- NOTE 3. See Maintenance Manual, Chapter 4, "Airworthiness Limitations" for inspections, mandatory retirement life information, and other requirements for continued airworthiness.
- NOTE 4. All Model 500, 550, 552, S550 and 560 replacement seats (crew and passenger), although they may comply with TSO C39, must also be demonstrated to comply with FAR 25.785. All Model 560XL replacement seats must comply with FAR § 25.562, Emergency landing dynamic conditions, as shown in the certification basis.
- NOTE 5. 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

Model S550 S/N S550-0001 through S550-0085 are eligible for the Maximum Weights and C.G. Range applicable to S/N S550-0086 and up when modified in accordance with Cessna Service Bulletin SBS550-11-1.

- NOTE 6. Airplanes in compliance with ECR EC00002 and ECR EC07682, Model 500 & 550, respectively, comply with French Certification requirements of the DIRECTION GENERALE DE L'AVIATION CIVILE of France. Such aircraft are identified by a prefix letter "F" at the beginning of the manufacturer's serial number. Examples: F500-XXXX(500) or F550-XXXX(550).
- NOTE 7. 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.

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.

Model 560 S/N 560-0001 through 560-0259 conforming to ECR 26053 are eligible for 12,200 lb. zero fuel weight with V_{MO} reduced to 275 KCAS from 8,000 ft. to 31,400 ft.

| NOTE 8. | 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 9. | Model 500 S/N 500-0001 through 500-0349 may use Pratt & Whitney Aircraft of Canada, Ltd. JT15D-1A engines with Cessna Service Bulletin SB72-2 incorporated and operate to JT15D-1 limits (engines may be interchanged in any combination). |
| NOTE 10. | 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 11. | Model 500 S/N 500-0001 through 500-0349 may use Pratt & Whitney of Canada, Ltd. JT15D-1A engines with Cessna Service Bulletin SB72-3 incorporated and operate to JT15D-1A limits. |
| NOTE 12. | 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 13. | Approved nose gear tires are limited to those listed in the Limitations Section of the FAA Approved Airplane Flight Manual. |
| NOTE 14. | Production Certificate No. 4 effective for 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 560-5000; and Model 550 (Bravo) S/N 550-0801 and on. Model 560XL not included. |
| NOTE 15. | The Model 552 is approved with a five-inch removable nose plug assembly installed between the radome and nose fuselage structure, as defined by Cessna ECR EC21789. No Flight Manual changes are required. |
| NOTE 16. | Model S550 airplanes S/N S550-0121 through S550-0160 are eligible for German configuration and meet the certification requirements of Luftfahrt-Bundesamt of the Federal Republic of Germany when modified in accordance with Cessna ECR EC20308 and CR00206. |
| NOTE 17. | The venting of flammable vapors away from operating tailcone equipment has been satisfactorily demonstrated by flight test demonstration of the differential between tailcone internal and external area pressures. This demonstration was accomplished only with certain equipment installed and operating. Equipment installations or other modifications to the tailcone which add additional ignition sources or possibly affect tailcone differential pressures must be coordinated with the Wichita Aircraft Certification Office. |
| NOTE 18. | For the Model 500, the first 349 airplanes are identified by serial number only, i.e., S/N 500-0001 through 500-0349. Above this number, airplanes had both a serial number and a unit number, which may not coincide. For those airplanes consult the Introduction Section of the Maintenance Manual for the unit/serial number relationship when complying with Airworthiness Directives and performing required maintenance. |
| NOTE 19. | For the Model 550, the unit number and the airplane serial number may not coincide until unit number 439 (S/N 550-0439). For prior airplanes, consult the Introduction Section of the Maintenance Manual for the unit/serial number relationship when complying with Airworthiness Directives and performing required maintenance. |
| NOTE 20. | Model S550 airplanes conforming to Cessna Drawing 6590002-2 and Model 560 airplanes conforming to Cessna Drawing 6590561-1 or -2 (for public transport or private category operation, respectively) comply with the certification requirements of the DIRECTION GENERALE DE L'AVIATION CIVILE OF FRANCE. Airplanes so modified or so constructed retain their original unit/serial number identification. |

| NOTE 21. | 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 when modified in accordance with Cessna Service Bulletin SBS550-32-08 are eligible to operate at the following V_{LO} and V_{LE} : Model 550 - Model S550 - SBS550-32-08 | | | | | |
|----------|---|--|---|---|---|---|
| | | SB550-32-14 | | Model 5550 - 5B5550-52-08 | | 50-52-08 |
| | V_{LO} (Landing gear operating extend) V_{LO} (Landing gear operating retract) | 11,000 <u>lb. ZFW</u> 248 KCAS 198 KCAS | 9,500 <u>lb. ZFW</u> 248 KCAS 198 KCAS | <u>Gravel Kit</u> 198 KCAS 198 KCAS | <u>Std. Acft.</u> 250 KCAS 202 KCAS | <u>Gravel Kit</u> 200 KCAS 200 KCAS |
| | V_{LE} (Landing gear extended) | 260 KCAS | 275 KCAS | 198 KCAS | 278 KCAS | 202 KCAS |
| NOTE 22. | Model 560 airplanes conforming to ECR 26053 12,200 ZFW Option and conforming to ECR 26155 Gravel Kit, the following V_{LO} 's and V_{LE} 's apply: | | | | | |
| | | <u>Model 560</u> 12,200 lb. | | | | |
| | | ZFW Option Gravel Kit | | | | |
| | V _{LO} (Landing gear operating extend) | <u>E</u> | <u>CR 26053 Re</u> 249 KCAS | | <u>R 26155 Rev. (</u> 199 KCAS | <u> </u> |
| | V_{LO} (Landing gear operating retract) | | 199 KCAS | | 199 KCAS | |
| | V_{LE} (Landing gear extended) | | 275 KCAS | 5 | 199 KCAS | |
| | ECR 26053, 12,200 ZFW Option is applicable to S/N 560-0001 through 560-0259. | | | | | |
| NOTE 23. | Model 552, S/N 552-0001 through S/N 552-0011, S/N 552-0013, and S/N 552-0015 destroyed. | | | | | |
| NOTE 24. | Deleted. | | | | | |
| NOTE 25. | 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 26. | 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. Model 560 S/N 560-0001 through 560-5000: 4.00 sq. in. Model 560XL: 3.98 sq. in. | | | | | |
| NOTE 27. | Model 560XL. Left divider assembly (part no. 6679017-1) or equivalent must always be installed when the LH aft toilet is installed and approved for occupancy during takeoff and landing. The structural divider is an integral part of the seat restraint system. | | | | | |
| NOTE 28. | Models 500, 550 (S/N 550-0001 through 550-0505 and 550-0550 through 550-0800), S550, 552, and 560 (S/N 560-0001 through 560-0259 and 560-0260 through 560-5000). 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 29. | Model 560XL width of aisle equivalent level of safety allows a minimum aisle width of 15 inches when measured 25 inches and higher from the floor. Any further reduction in aisle width requires further FAA evaluation and is not included in this grant of equivalent level of safety. | | | | | |
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