DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

	3A10
	Revision 64
	Textron Aviation
310	310J
310A (USAF U-3A)	310J-1
310B	E310J
310C	310K
310D	310L
310E (USAF U-3B)	310N
310F	310P
310G	T310P
310H	310Q
E310H	T310Q
310I	310R
	T310R
	May 9, 2024

TYPE CERTIFICATE DATA SHEET NO. 3A10

This data sheet which is part of Type Certificate No. 3A10 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 — Textron Aviation Inc.
One Cessna Boulevard
Wichita, KS 67215

Type Certificate Holder Record — Cessna Aircraft Company transferred to Textron Aviation Inc. on July 29, 2015

I. Model 310 (Normal Category), Approved March 22, 1954

Engines — 2 Continental O-470-B or O-470-M (installed per Cessna Dwg. 0850000, 0951560, 0851000 and 0851755)

*Fuel — Grade 100 or 100LL aviation gasoline

*Engine Limits — For all operations, 2600 r.p.m. (240 hp.)

Propeller and Propeller Limits

1. 2 full-feathering propeller installations
   a. Hartzell hub HC82XF or HC-A2XF-2 with 8433 blades — 68 lbs. ea. (-25)
      Diameter: not over 84 in., not under 78 in.
      Pitch settings at 30 in. sta.:
      low 12.5°, high 22.0°, feathered 82.0°
   b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355, McCauley DCFU290D1/T2, DCFU290D2/T2 — 4 lbs. ea. (-17)
   c. Propeller spinner, Hartzell C-888 dome with C-807-1 bulkhead or
      Cessna 0752006 dome with 0850300 bulkhead or
      Cessna 0850311 dome with 0850300 bulkhead or
      Cessna 0850313 dome with 0850300 bulkhead — 4 lbs. ea. (-23)

Page No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Rev. No.	64	61	50	61	61	61	50	61	61	58	61	61	61	50	61	61	61
Page No.	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
Rev. No.	61	61	62	61	61	61	61	50	61	61	61	61	61	61	61	61	61
Page No.	35	36	37	38	39	40	41	42	43	44							
Rev. No.	61	64	61	61	61	61	61	61	63	63							

I. Model 310 (cont'd)

*Airspeed Limits (TIAS)	Maneuvering	159 m.p.h. (138 knots)
	Maximum structural cruising	200 m.p.h. (173 knots)
	Never exceed	246 m.p.h. (214 knots)
	Flaps extended	130 m.p.h. (113 knots)
	Landing gear extended	130 m.p.h. (113 knots)

*C.G. Range (Landing Gear Extended)
(+36.0) to (+41.5) at 4600 lbs.
(+33.9) to (+42.1) at 4240 lbs.
(+32.0) to (+42.1) at 3900 lbs. or less
Straight line variation between points given

Empty Wt. C.G. Range: None

*Maximum Weight: 4600 lbs.

No. of Seats: 5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.

Maximum Baggage: 200 lbs. (+96) (See NOTE 2G for placard).

Anti-Icing Fluid Capacity: 4-1/2 qt. (7 lbs. at +47)

Fuel Capacity: 102 gal. (2 wing tip tanks, 51 gal. each at +35)
(See NOTE 1 for data on system fuel)

Oil Capacity: 24 qt. (12 qt. in each engine at (0), 6 qt. unusable per engine)
(See NOTE 1 for data on system oil)

Control Surface Movements					
	Wing flaps			Down	45°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	25°	Down	15°
	Rudder	Right	25°	Left	25°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	20°	Down	28°
	Rudder	Right	20°	Left	26°

Serial Nos. Eligible: 35000 through 35546. Delegation Option Manufacturer No. CE-1 authorized to issue airworthiness certificates for S/N 35216 through 35546 and approve repairs and alterations of airplanes S/N 35000 through 35546 under delegation option provisions of Part 21 of the Federal Aviation Regulations (FAR).

II. Model 310A (USAF U-3A) (Normal Category), Approved April 9, 1957

Engines: 2 Continental O-470-M

*Fuel: Grade 100 or 100LL aviation gasoline

*Engine Limits: For all operations, 2600 r.p.m. (240 hp.)

II. Model 310A (cont'd)

Propeller and Propeller Limits

1. 2 full-feathering propeller installations
   a. Hartzell hub HC82XF-2 or HC-A2XF-2 with 8433 blades — 68 lbs. ea. (-25)
      Diameter: not over 84 in., not under 78 in.
      Pitch settings at 30 in. sta.:
      low 12.5°, high 22.0°, feathered 82.0°
   b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355, McCauley DCFU290D1/T2, DCFU290D2/T2 — 4 lbs. ea. (-17)
   c. Propeller spinner, Hartzell C-888 dome with C-807-1 bulkhead or
      Cessna 0752006 dome with 0850300 bulkhead or
      Cessna 0850311 dome with 0850300 bulkhead or
      Cessna 0850313 dome with 0850300 bulkhead — 4 lbs. ea. (-23)

***Airspeed Limits (TIAS)**

Maneuvering	164 m.p.h. (143 knots)
Maximum structural cruising	200 m.p.h. (173 knots)
Never exceed	248 m.p.h. (215 knots)
Flaps extended	140 m.p.h. (122 knots)
Landing gear extended	140 m.p.h. (122 knots)

***C.G. Range (Landing Gear Extended)**

(+37.3) to (+42.1) at 4830 lbs.
(+32.0) to (+42.1) at 3900 lbs. or less
Straight line variation between points given

Empty Wt. C.G. Range

None

***Maximum Weight**

Landing 4600 lbs., takeoff 4830 lbs.

No. of Seats

5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.

Maximum Baggage

200 lbs. (+96) (See NOTE 2G for placard).

Anti-Icing Fluid Capacity

4-1/2 qt. (7 lbs.) (+47)

Fuel Capacity

102 gal. (2 wing tip tanks, 51 gal. each at +35.0)
(See NOTE 1 for data on unusable fuel)

Oil Capacity

24 qt. (12 qt. in each engine at (0); 6 qt. unusable per engine)
(See NOTE 1 for data on undrainable oil)

Control Surface Movements

Wing flaps			Down	45°
Main surfaces				
Aileron	Up	20°	Down	20°
Elevator	Up	25°	Down	15°
Rudder	Right	25°	Left	25°
Tabs (main surface in neutral)				
Aileron	Up	20°	Down	20°
Elevator	Up	20°	Down	28°
Rudder	Right	20°	Left	26°

Serial Nos. Eligible

38001 through 38161. Production Certificate No. 4 effective.
Prior to civil certification U-3A airplanes must be modified in accordance with Cessna Dwg. 0800203 or Service Kit SK310-85, which may be obtained from the manufacturer. An Federal Aviation Agency (FAA) representative upon determination of compliance with the above-mentioned modification drawing may issue an airworthiness certificate.

III. Model 310B (Normal Category), Approved May 23, 1957

Engines	2 Continental O-470-M
*Fuel	Grade 100 or 100LL aviation gasoline
*Engine Limits	For all operations, 2600 r.p.m. (240 hp.)
Propeller and Propeller Limits	1. 2 full-feathering propeller installations a. Hartzell hub HC82XF-2 or HC-A2XF-2 with 8433 blades — 68 lbs. ea. (-25) Diameter: not over 84 in., not under 78 in. Pitch settings at 30 in. sta.: low 12.5°, high 22.0°, feathered 82.0° b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355, McCauley DCFU290D1/T2, DCFU290D2/T2 — 4 lbs. ea. (-17) c. Propeller spinner, Hartzell C-888 dome with C-807-1 bulkhead or Cessna 0752006 dome with 0850300 bulkhead or Cessna 0850311 dome with 0850300 bulkhead or Cessna 0850313 dome with 0850300 bulkhead — 4 lbs. ea. (-23)

*Airspeed Limits (TIAS)		
	Maneuvering	164 m.p.h. (143 knots)
	Maximum structural cruising	200 m.p.h. (173 knots)
	Never exceed	248 m.p.h. (215 knots)
	Flaps extended	140 m.p.h. (122 knots)
	Landing gear extended	140 m.p.h. (122 knots)

*C.G. Range (Landing Gear Extended)	(+36.6) to (+42.1) at 4700 lbs. (+32.0) to (+42.1) at 3900 lbs. or less Straight line variation between points given
Empty Wt. C.G. Range	None
*Maximum Weight	Landing 4600 lbs., takeoff 4700 lbs.
No. of Seats	5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.
Maximum Baggage	200 lbs. (+96) (See NOTE 2G for placard).
Anti-Icing Fluid Capacity	4-1/2 qt. (7 lbs.) (+47)
Fuel Capacity	102 gal. (2 wing tip tanks, 51 gal. each at +35.0) (See NOTE 1 for data on unusable fuel)
Oil Capacity	24 qt. (12 qt. in each engine at (0), 6 qt. unusable per engine) (See NOTE 1 for data on undrainable oil)

Control Surface Movements					
	Wing flaps			Down	45°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	25°	Down	15°
	Rudder	Right	25°	Left	25°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	20°	Down	28°
	Rudder	Right	20°	Left	26°

III. Model 310B (cont'd)

Serial Nos. Eligible	607, 35547, 35548, 35549, 35551 through 35771. Production Certificate No. 4 effective.

IV. Model 310C (Normal Category), Approved October 22, 1958

Engines	2 Continental IO-470-D	
*Fuel	Grade 100 or 100LL aviation gasoline	
*Engine Limits	For all operations, 2625 r.p.m. (260 hp.)	
Propeller and Propeller Limits	1. 2 full-feathering 2-bladed propeller installations	
	a. Hartzell hub HC82XF-2 or HC-A2XF-2 with 8433 blades Diameter: not over 84 in., not under 78 in. Pitch settings at 30 in. sta.: low 13.5°, high 22.0°, feathered 82.0°	68 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355, McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, Hartzell C-888 dome with C-807-1 bulkhead or Cessna 0752006 dome with 0850300 bulkhead or Cessna 0850311 dome with 0850300 bulkhead or Cessna 0850313 dome with 0850300 bulkhead	4 lbs. ea. (-23)
	2. 2 full feathering propeller installations	
	a. McCauley hub D2AF36C48 with 90MF-10 blades Diameter: not over 80 in., not under 78 in. Pitch settings at 36 in. sta.: low 11°, feathered 77°	68 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355, McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, McCauley Model D2840 with D2878 bulkhead or Cessna 0850258 spinner with Cessna 0850257 bulkhead	4 lbs. ea. (-23)

*Airspeed Limits (TIAS)	Maneuvering	164 m.p.h. (143 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	248 m.p.h. (215 knots)
	Flaps extended	140 m.p.h. (122 knots)
	Landing gear extended	140 m.p.h. (122 knots)

*C.G. Range (Landing Gear Extended)	(+37.3) to (+42.1) at 4830 lbs. (+32.0) to (+42.1) at 3900 lbs. or less Straight line variation between points given
Empty Wt. C.G. Range	None
*Maximum Weight	Landing 4600 lbs., takeoff 4830 lbs.

IV. Model 310C (cont'd)

No. of Seats	5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.
Maximum Baggage	200 lb. (+96) (See NOTE 2G for placard).
Anti-Icing Fluid Capacity	4-1/2 qt. (7 lbs.) (+47)
Fuel Capacity	102 gal. (2 wing tip tanks, 51 gal. each at +35.0) (See NOTE 1 for data on unusable fuel)
Oil Capacity	24 qt. (12 qt. in each engine at (-3.5), 6 qt. unusable per engine) (See NOTE 1 for data on undrainable oil)

Control Surface Movements

Wing flaps			Down	45°
Main surfaces				
Aileron	Up	20°	Down	20°
Elevator	Up	25°	Down	15°
Rudder	Right	25°	Left	25°
Tabs (main surface in neutral)				
Aileron	Up	20°	Down	20°
Elevator	Up	10°	Down	26°
Rudder	Right	0°	Left	26°

Serial Nos. Eligible	35550, 35772 through 35999, 39001 through 39031. Production Certificate No. 4 effective.

V. Model 310D (Normal Category), Approved July 8, 1959

Engines	2 Continental IO-470-D
*Fuel	Grade 100 or 100LL aviation gasoline
*Engine Limits	For all operations, 2625 r.p.m. (260 hp.)

Propeller and Propeller Limits

1. 2 full-feathering propeller installations
   - a. Hartzell hub HC82XF-2 or HC-A2XF-2 with 8433 blades — 68 lbs. ea. (-25)
     Diameter: not over 84 in., not under 78 in.
     Pitch settings at 30 in. sta.:
     low 13.5°, high 22.0°, feathered 82.0°
   - b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355, McCauley DCFU290D1/T2, DCFU290D2/T2 — 4 lbs. ea. (-17)
   - c. Propeller spinner, Hartzell C-888 dome with C-807-1 bulkhead or — 4 lbs. ea. (-23)
     Cessna 0752006 dome with 0850300 bulkhead or
     Cessna 0850311 dome with 0850300 bulkhead or
     Cessna 0850313 dome with 0850300 bulkhead

V. Model 310D (cont'd)

Propeller and Propeller Limits (cont'd)	2. 2 full-feathering propeller installations	
	a. McCauley hub D2AF36C48 with 90MF-10 blades Diameter: not over 80 in., not under 78 in. Pitch settings at 36 in. sta.: low 11°, feathered 77°	68 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or G210355 McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, McCauley Model D2840 with D2878 bulkhead or Cessna 0850258 spinner with Cessna 0850257 bulkhead	4 lbs. ea. (-23)

*Airspeed Limits (TIAS)	Maneuvering	164 m.p.h. (143 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	248 m.p.h. (215 knots)
	Flaps extended	140 m.p.h. (122 knots)
	Landing gear extended	140 m.p.h. (122 knots)

*C.G. Range (Landing Gear Extended)	(+37.3) to (+42.1) at 4830 lbs. (+32.0) to (+42.1) at 4060 lbs. or less Straight line variation between points given
Empty Wt. C.G. Range	None
Maximum Weight	Landing 4600 lbs., takeoff 4830 lbs.
No. of Seats	5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.
Maximum Baggage	200 lbs. (+96) (See NOTE 2G for placard).
Anti-Icing Fluid Capacity	4-1/2 qt. (7 lbs.) (+47)
Fuel Capacity	102 gal. (2 wing tip tanks, 51 gal. each at +35.0) (See NOTE 1 for data on unusable fuel)
Oil Capacity	24 qt. (12 qt. in each engine at (-3.5), unusable 6 qt. per engine) (See NOTE 1 for data on undrainable oil)

Control Surface Movements	Wing flaps			Down	45°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	25°	Down	15°
	Rudder (Parallel to W.L.)	Right	25°	Left	25°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	10°	Down	26°
	Rudder (Parallel to W.L.)	Right	17°	Left	22°

Serial Nos. Eligible	39032 through 39264. Production Certificate No. 4 effective. Prior to original certification of S/N 39265 through 39299, an FAA representative must perform a detailed inspection for workmanship, materials and conformity with the approved technical data and a check of the flight characteristics.

VI. Model 310E (USAF U-3B) (Normal Category), Approved September 21, 1959

Engines	2 Continental IO-470-D	
*Fuel	Grade 100 or 100LL aviation gasoline	
*Engine Limits	For all operations, 2625 r.p.m. (260 hp.)	
Propeller and Propeller Limits	1. 2 full-feathering propeller installations	
	a. Hartzell hub HC82XF-2 or HC-A2XF-2 with 8433 blades Diameter: not over 84 in., not under 78 in. Pitch settings at 30 in. sta.: low 13.5°, high 22.0°, feathered 82.0°	68 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355 McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, Hartzell C-888 dome with C-807-1 bulkhead or Cessna 0752006 dome with 0850300 bulkhead or Cessna 0850311 dome with 0850300 bulkhead or Cessna 0850313 dome with 0850300 bulkhead	4 lbs. ea. (-23)
	2. 2 full-feathering propeller installations	
	a. McCauley hub D2AF36C48 with 90MF-10 blades Diameter: not over 80 in., not under 78 in. Pitch settings at 36 in. sta.: low 11°, feathered 77°	68 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355 McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, McCauley Model D2840 with D2878 bulkhead or Cessna 0850258 spinner with Cessna 0850257 bulkhead	4 lbs. ea. (-23)

*Airspeed Limits (TIAS)		
	Maneuvering	167 m.p.h. (145 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	252 m.p.h. (218 knots)
	Flaps extended	140 m.p.h. (122 knots)
	Landing gear extended	140 m.p.h. (122 knots)

*C.G. Range (Landing Gear Extended)	(+38.3) to (+41.6) at 4990 lbs. (+35.6) to (+42.1) at 4600 lbs. (+32.0) to (+42.1) at 4060 lbs. or less Straight line variation between points given
Empty Wt. C.G. Range	None
*Maximum Weight	Landing 4750 lbs., takeoff 4990 lbs.
No. of Seats	5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.
Maximum Baggage	200 lbs. (+96) (See NOTE 2G for placard).
Anti-Icing Fluid Capacity	4-1/2 qt. (7 lbs.) (+47)

VI. Model 310E (cont'd)

Fuel Capacity	102 gal. (2 wing tip tanks, 51 gal. each at +35.0) (See NOTE 1 for data on unusable fuel)				
Oil Capacity	24 qt. (12 qt. in each engine at (-3.5), 6 qt. unusable per engine) (See NOTE 1 for data on undrainable oil)				
Control Surface Movements	Wing flaps			Down	45°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	25°	Down	15°
	Rudder (Parallel to W.L.)	Right	25°	Left	25°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	10°	Down	26°
	Rudder (Parallel to W.L.)	Right	17°	Left	22°
Serial Nos. Eligible	35912A, 310M0001 through 310M0036. Production Certificate No. 4 effective. Prior to original certification U-3B airplanes must be modified in accordance with Cessna Dwg. 0800203 or Service Kit SK310-85, which may be obtained from the manufacturer. An FAA representative upon determination of compliance with the above-mentioned modification drawing may issue an airworthiness certificate.				

VII. Model 310F (Normal Category), Approved July 25, 1960

Engines	2 Continental IO-470-D	
*Fuel	Grade 100 or 100LL aviation gasoline	
*Engine Limits	For all operations, 2625 r.p.m. (260 hp.)	
Propeller and Propeller Limits	1. 2 full-feathering propeller installations	
	a. Hartzell hub HC82XF-2 or HC-A2XF-2 with 8433 blades Diameter: not over 84 in., not under 78 in. Pitch settings at 30 in. sta.: low 13.5°, high 22.0°, feathered 82.0°	68 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290, or C210355 McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, Hartzell C888 dome with C-807-1 bulkhead or Cessna 0752006 dome with 0850300 bulkhead or Cessna 0850311 dome with 0850300 bulkhead or Cessna 0850313 dome with 0850300 bulkhead	4 lbs. ea. (-23)
	2. 2 full-feathering propeller installations	
	a. McCauley hub D2AF36C48 with 90MF-10 blades Diameter: not over 80 in., not under 78 in. Pitch settings at 36 in. sta.: low 11°, feathered 77°	68 lbs. ea. (-25)

VII. Model 310F (cont'd)

Propeller and Propeller Limits (cont'd)	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355, McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, McCauley Model D2840 with D2878 bulkhead or Cessna 0850258 spinner with Cessna 0850257 bulkhead	4 lbs. ea. (-23)

*Airspeed Limits (TIAS)	Maneuvering	164 m.p.h. (143 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	248 m.p.h. (215 knots)
	Flaps extended	140 m.p.h. (122 knots)
	Landing gear extended	140 m.p.h. (122 knots)

*C.G. Range (Landing Gear Extended)
(+37.3) to (+42.1) at 4830 lbs.
(+32.0) to (+42.1) at 4060 lbs. or less
Straight line variation between points given.

Empty Wt. C.G. Range
None

*Maximum Weight
Landing 4600 lbs., takeoff 4830 lbs.

No. of Seats
5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.

Maximum Baggage
200 lbs. (+96) (See NOTE 2G for placards)

Anti-Icing Fluid Capacity
4-1/2 qt. (7 lbs.) (+47)

Fuel Capacity
102 gal. (2 wing tip tanks, 51 gal. each at +35.0)
(See NOTE 1 for data on unusable fuel)

Oil Capacity
24 qt. (12 qt. in each engine at (-3.5), 6 qt. unusable per engine)
(See NOTE 1 for data on undrainable oil)

Control Surface Movements	Wing flaps			Down	45°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	25°	Down	15°
	Rudder (Parallel to W.L.)	Right	25°	Left	25°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	10°	Down	26°
	Rudder (Parallel to W.L.)	Right	17°	Left	22°

Serial Nos. Eligible
310-0001 through 310-0016, 310-0018 through 310-0156.
Production Certificate No. 312 effective. Prior to original certification of each aircraft, an FAA representative must perform a detailed inspection for workmanship, materials and conformity with the approved technical data and a check of the flight characteristics.

VIII. Model 310G (Normal Category), Approved October 2, 1961

Engines	2 Continental IO-470-D	
*Fuel	Grade 100 or 100LL aviation gasoline	
*Engine Limits	For all operations, 2625 r.p.m. (260 hp.)	
Propeller and Propeller Limits	1. 2 full-feathering propeller installations	
	a. Hartzell hub HC82XF-2 or HC-A2XF-2 with 8433 blades Diameter: not over 84 in., not under 78 in. Pitch settings at 30 in. sta.: low 13.5°, high 22.0°, feathered 82.0°	68 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355, McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, Hartzell C-888 dome with C-807-1 bulkhead or Cessna 0752006 dome with 0850300 bulkhead or Cessna 0850311 dome with 0850300 bulkhead or Cessna 0850313 dome with 0850300 bulkhead	4 lbs. ea. (-23)
	2. 2 full-feathering propeller installations	
	a. McCauley hub D2AF36C48 with 90MF-10 blades Diameter: not over 80 in., not under 78 in. Pitch settings at 36 in. sta.: low 11°, feathered 77°	68 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355, McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, McCauley Model D2840 with D2878 bulkhead or Cessna 0850 spinner with Cessna 0850257 bulkhead	4 lbs. ea. (-23)

*Airspeed Limits (TIAS)		
	Maneuvering	167 m.p.h. (145 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	252 m.p.h. (218 knots)
	Flaps extended	140 m.p.h. (122 knots)
	Landing gear extended	140 m.p.h. (122 knots)

*C.G. Range (Landing Gear Extended)	(+38.3) to (+41.6) at 4990 lbs. (+35.6) to (+42.1) at 4600 lbs. (+32.0) to (+42.1) at 4060 lbs. or less Straight line variation between points given
Empty Wt. C.G. Range	None
*Maximum Weight	Landing 4750 lbs., takeoff 4990 lbs.
No. of Seats	5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.
Maximum Baggage	200 lbs. (+96) (See NOTE 2G for placard)
Anti-Icing Fluid Capacity	4-1/2 qt. (7 lb.) (+47)

VIII. Model 310G (cont'd)

Fuel Capacity	102 gal. (2 wing tip tanks, 51 gal. each at +35.0) (See NOTE 1 for data on unusable fuel)				
Oil Capacity	24 qt. (12 qt. in each engine at (-3.5), 6 qt. unusable per engine) (See NOTE 1 for data on undrainable oil)				
Control Surface Movements	Wing flaps			Down	45°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	25°	Down	15°
	Rudder (Parallel to W.L.)	Right	25°	Left	25°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	10°	Down	26°
	Rudder (Parallel to W.L.)	Right	17°	Left	22°
Serial Nos. Eligible	310G0001 through 310G0156. Production Certificate No. 312 effective.				

IX. Model 310H (Normal Category), Approved July 19, 1962

Engines	2 Continental IO-470-D	
*Fuel	Grade 100 or 100LL aviation gasoline	
*Engine Limits	For all operations, 2625 r.p.m. (260 hp.)	
Propeller and Propeller Limits	1. 2 full-feathering propeller installations	
	a. Hartzell hub HC82XF-2 or HC-A2XF-2 with 8433 blades Diameter: not over 84 in., not under 78 in. Pitch settings at 30 in. sta.: low 13.5°, high 22.0°, feathered 82.0°	68 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355; McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, Hartzell C-888 dome with C-807-1 bulkhead or Cessna 0752006 dome with 0850300 bulkhead or Cessna 0850311 dome with 0850300 bulkhead or Cessna 0850313 dome with 0850300 bulkhead	4 lbs. ea. (-23)
	2. 2 full-feathering propeller installations	
	a. McCauley hub D2AF36C48 with 90MF-10 blades Diameter: not over 80 in., not under 78 in. Pitch settings at 36 in. sta.: low 11°, feathered 77°	68 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355, McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, McCauley Model D2840 with D2878 bulkhead or Cessna 0850258 spinner with Cessna 0850257 bulkhead	4 lbs. ea. (-23)

IX. Model 310H

*Airspeed Limits (TIAS)	Maneuvering	167 m.p.h. (145 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	254 m.p.h. (220 knots)
	Flaps extended	140 m.p.h. (122 knots)
	Landing gear extended	140 m.p.h. (122 knots)
*C.G. Range (Landing Gear Extended)	(+37.3) to (+42.2) at 5100 lbs. (+34.7) to (+42.7) at 4700 lbs. (+32.0) to (+42.7) at 4300 lbs. or less Straight line variation between points given	
Empty Wt. C.G. Range	None	
*Maximum Weight	Landing 5100 lbs., takeoff 5100 lbs.	
No. of Seats	5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.	
Maximum Baggage	200 lbs. (+96), 80 lbs. per side on floor (+124) or 60 lbs. in upper rack (+124). (See NOTE 2G for placard)	
Fuel Capacity	102 gal. (2 wing tip tanks, 51 gal. each at +35.0) (See NOTE 1 for data on unusable fuel)	
Oil Capacity	24 qt. (12 qt. in each engine at (-3.5), 6 qt. unusable in each engine) (See NOTE 1 for data on undrainable oil)	
Control Surface Movements	Wing flaps	Down 45°
	Main surfaces	
	Aileron	Up 20° Down 20°
	Elevator	Up 25° Down 15°
	Rudder (Parallel to W.L.)	Right 25° Left 25°
	Tabs (main surface in neutral)	
	Aileron	Up 20° Down 20°
	Elevator	Up 10° Down 26°
	Rudder (Parallel to W.L.)	Right 17° Left 22°
Serial Nos. Eligible	310H0001 through 310H0148. Production Certificate No. 312 effective.	

X. Model E310H (Normal Category), Approved January 17, 1963

Engines	2 Continental IO-470-D
*Fuel	Grade 100 or 100LL aviation gasoline
*Engine Limits	For all operations, 2625 r.p.m. (260 hp.)

X. Model E310H (cont'd)

Propeller and Propeller Limits	1. 2 full-feathering propeller installations	
	a. Hartzell hub HC82XF-2 or HC-A2XF-2 with 8433 blades Diameter: not over 84 in., not under 78 in. Pitch settings at 30 in. sta.: low 13.5°, high 22.0°, feathered 82.0°	68 lbs. ea. (-24)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355 McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, Hartzell C-888 dome with C-807-1 bulkhead or Cessna 0752006 dome with 0850300 bulkhead or Cessna 0850311 dome with 0850300 bulkhead or Cessna 0850313 dome with 0850300 bulkhead	4 lbs. ea. (-23)
	2. 2 full-feathering propeller installations	
	a. McCauley hub D2AF36C48 with 90MF-10 blades Diameter: not over 80 in., not under 78 in. Pitch settings at 36 in. sta.: low 11°, feathered 77°	68 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355; McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, McCauley Model D2840 with D2878 bulkhead or Cessna 0850258 spinner with Cessna 0850257 bulkhead	4 lbs. ea. (-23)

*Airspeed Limits (TIAS)	Maneuvering	167 m.p.h. (145 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	254 m.p.h. (220 knots)
	Flaps extended	140 m.p.h. (122 knots)
	Landing gear extended	140 m.p.h. (122 knots)

*C.G. Range (Landing Gear Extended)
(+36.6) to (+42.3) at 4990 lbs.
(+34.7) to (+42.7) at 4700 lbs.
(+32.0) to (+42.7) at 4300 lbs. or less
Straight line variation between points given

Empty Wt. C.G. Range
None

*Maximum Weight
Landing 4990 lbs., takeoff 4990 lbs.

No. of Seats
5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.

Maximum Baggage
200 lbs. (+96), 60 lbs. upper rack (+124), and 80 lbs. per side on floor (+124).
(See NOTE 2G for placard)

Fuel Capacity
102 gal. (2 wing tip tanks, 51 gal. each at +35.0)
(See NOTE 1 for data on unusable fuel)

Oil Capacity
24 qt. (12 qt. in each engine at (-3.5), 6 qt. unusable per engine)
(See NOTE 1 for data on undrainable oil)

X. Model E310H (cont'd)

Control Surface Movements	Wing flaps			Down	45°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	25°	Down	15°
	Rudder (Parallel to W.L.)	Right	25°	Left	25°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	10°	Down	26°
	Rudder (Parallel to W.L.)	Right	17°	Left	22°

Serial Nos. Eligible: All Model 310H's (Section IX), 310H0001 through 310H0148. Production Certificate No. 312 effective.

XI. Model 310I (Normal Category), Approved December 20, 1963

Engines: 2 Continental IO-470-U

*Fuel: Grade 100 or 100LL aviation gasoline

*Engine Limits: For all operations, 2625 r.p.m. (260 hp.)

Propeller and Propeller Limits:

1. 2 full-feathering propeller installations
   a. McCauley hub D2AF34C52, blades 80GF — 60 lbs. ea. (-25)
      Diameter: not over 80 in., not under 78 in.
      Pitch settings at 30 in. sta.:
      low 13.8°, feathered 80.5°
   b. Hydraulic governor, Woodward 210105, 210155, 210280, 210444, A210438, 210290 or C210355, McCauley DCFU290D1/T2, DCFU290D2/T2 — 4 lbs. ea. (-17)
   c. Propeller spinner, Cessna 0850326 dome with 0850257 bulkhead and 0850330 support — 4 lbs. ea. (-23)

*Airspeed Limits (TIAS)

Maneuvering	170 m.p.h. (148 knots)
Maximum structural cruising	210 m.p.h. (183 knots)
Never exceed	254 m.p.h. (220 knots)
Flaps extended	140 m.p.h. (122 knots)
Landing gear extended	140 m.p.h. (122 knots)

*C.G. Range (Landing Gear Extended): (+37.3) to (+42.9) at 5100 lbs.
(+43.6) at 4700 lbs.
(+32.0) to (+43.6) at 4300 lbs. or less
Straight line variation between points given

Empty Wt. C.G. Range: None

*Maximum Weight: Landing 5100 lbs., takeoff 5100 lbs.

No. of Seats: 5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.

Maximum Baggage: 200 lbs. (+96), 80 lbs. per side on floor (+124), 120 lbs. per nacelle (+63)

Fuel Capacity: 102 gal. (2 wing tip tanks, 51 gal. each at +35.0)
(See NOTE 1 for data on system fuel)

XI. Model 310I (cont'd)

Oil Capacity	24 qt. (12 qt. in each engine at (-3.5), 6 qt. unusable per engine) (See NOTE 1 for data on system oil)				
Control Surface Movements	Wing flaps			Down	35°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	16.5°	Down	15°
	Rudder (Parallel to W.L.)	Right	25°	Left	25°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	10°	Down	26°
	Rudder (Parallel to W.L.)	Right	17°	Left	22°
Serial Nos. Eligible	310I0001 through 310I0200. Production Certificate No. 312 effective.				

XII. Model 310J (Normal Category), Approved September 3, 1964

Engines	2 Continental IO-470-U	
*Fuel	Grade 100 or 100LL aviation gasoline	
*Engine Limits	For all operations, 2625 r.p.m. (260 hp.)	
Propeller and Propeller Limits	1. 2 full-feathering propeller installations	
	a. McCauley hub D2AF34C65, blades 84JF-3 or McCauley hub D2AF34C81, blades 84JF-3 Diameter: not over 81 in., not under 79 in. Pitch settings at 30 in. sta.: low 12.8°, feathered 82.6°	62 lbs. ea. (-28)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210290, C210355, A210438, 210444; McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, Cessna 0855030-12 dome with 0855030-14 and -15 bulkhead and 0855030-3 support	4 lbs. ea. (-23)

*Airspeed Limits (TIAS)	Maneuvering	170 m.p.h. (148 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	254 m.p.h. (220 knots)
	Flaps extended	140 m.p.h. (122 knots)
	Landing gear extended	140 m.p.h. (122 knots)

*C.G. Range (Landing Gear Extended)	(+37.3) to (+43.1) at 5100 lbs. (+43.6) at 4700 lbs. (+32.0) to (+43.6) at 4300 lbs. or less Straight line variation between points given
Empty Wt. C.G. Range	None
*Maximum Weight	Landing 5100 lbs., takeoff 5100 lbs.
No. of Seats	5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.
Maximum Baggage	200 lbs. (+96), 80 lbs. per side on floor (+124), 120 lbs. per nacelle (+63)

XII. Model 310J (cont'd)

Fuel Capacity	102 gal. (2 wing tip tanks, 51 gal. each at +35.0) (See NOTE 1 for data on unusable fuel)				
Oil Capacity	24 qt. (12 qt. in each engine at (-3.5), 6 qt. unusable per engine) (See NOTE 1 for data on undrainable oil)				
Control Surface Movements	Wing flaps			Down	35°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	16.5°	Down	15°
	Rudder (Parallel to W.L.)	Right	25°	Left	25°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	10°	Down	26°
	Rudder (Parallel to W.L.)	Right	17°	Left	22°
Serial Nos. Eligible	310J0001 through 310J0200. Production Certificate No. 312 effective.				

XIII. Model 310J-1 (Utility Category), Approved November 30, 1964

Engines	2 Continental IO-470-U	
*Fuel	Grade 100 or 100LL aviation gasoline	
*Engine Limits	For all operations, 2625 r.p.m. (260 hp.)	
Propeller and Propeller Limits	1. 2 full-feathering propeller installations	
	a. McCauley hub D2AF34C71, blades 84JF-3 Diameter: not over 81 in., not under 79 in. Pitch settings at 30 in. sta.: low 11.4°, feathered 83.0°	61 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210290, C210355, 210438, 210444; McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, Cessna 0850326 dome with 0850257 bulkhead and 0855030 support	4 lbs. ea. (-23)

*Airspeed Limits (TIAS)	Maneuvering	183 m.p.h. (159 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	272 m.p.h. (236 knots)
	Flaps extended	140 m.p.h. (122 knots)
	Landing gear extended	140 m.p.h. (122 knots)

*C.G. Range (Landing Gear Extended)	(+37.7) to (+43.1) at 5150 lbs. (+43.6) at 4750 lbs. (+32.0) to (+43.6) at 4300 lbs. or less Straight line variation between points given
Empty Wt. C.G. Range	None
*Maximum Weight	Landing 5150 lbs., takeoff 5150 lbs.
No. of Seats	4 (2 at +37, 2 at +68)
Maximum Baggage	200 lbs. (+96), 120 lbs. per nacelle (+63)

XIII. Model 310J-1 (cont'd)

Fuel Capacity	102 gal. (2 wing tip tanks, 51 gal. each at +35.0) (See NOTE 1 for data on unusable fuel)				
Oil Capacity	24 qt. (12 qt. in each engine at (-3.5), 6 qt. unusable per engine) (See NOTE 1 for data on undrainable oil)				
Control Surface Movements	Wing flaps			Down	35°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	16.5°	Down	15°
	Rudder (Parallel to W.L.)	Right	25°	Left	25°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	10°	Down	26°
	Rudder (Parallel to W.L.)	Right	17°	Left	22°
Serial Nos. Eligible	310J0001 through 310J0200. Production Certificate No. 312 effective.				

XIV. Model E310J (Normal Category), Approved March 15, 1965

Engines	2 Continental IO-470-U	
*Fuel	Grade 100 or 100LL aviation gasoline	
*Engine Limits	For all operations, 2625 r.p.m. (260 hp.)	
Propeller and Propeller Limits	1. 2 full-feathering propeller installations	
	a. McCauley hub D2AF34C65, blades 84JF-3 or McCauley hub D2AF34C81, blades 84JF-3 Diameter: not over 81 in., not under 79 in. Pitch settings at 30 in. sta.: low 12.8°, feathered 82.6°	62 lbs. ea. (-28)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210290, C210355, A210438, 210444; McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, Cessna 0855030-12 dome with 0855030-14 and -15 bulkhead and 0855030-3 support	4 lbs. ea. (-23)

*Airspeed Limits (TIAS)	Maneuvering	170 m.p.h. (148 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	254 m.p.h. (220 knots)
	Flaps extended	140 m.p.h. (122 knots)
	Landing gear extended	140 m.p.h. (122 knots)

*C.G. Range (Landing Gear Extended)	(+36.6) to (+43.1) at 4990 lbs. (+43.6) at 4700 lbs. (+32.0) to (+43.6) at 4300 lbs. or less Straight line variation between points given
Empty Wt. C.G. Range	None
*Maximum Weight	Landing 4990 lbs., takeoff 4990 lbs.
No. of Seats	5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.

XIV. Model E310J (cont'd)

Maximum Baggage	200 lbs. (+96), 80 lbs. per side on floor (+124) 120 lbs. per nacelle (+63)				
Fuel Capacity	102 gal. (2 wing tip tanks, 51 gal. each at +35.0) (See NOTE 1 for data on unusable fuel)				
Oil Capacity	24 qt. (12 qt. in each engine at (-3.5), 6 qt. unusable per engine). (See NOTE 1 for data on undrainable oil)				
Control Surface Movements	Wing flaps			Down	35°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	16.5°	Down	15°
	Rudder (Parallel to W.L.)	Right	25°	Left	25°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	10°	Down	26°
	Rudder (Parallel to W.L.)	Right	17°	Left	22°
Serial Nos. Eligible	310J0001 through 310J0200 (same as Section XII). Production Certificate No. 312 effective.				

XV. Model 310K (Normal Category), Approved October 20, 1965

Engines	2 Continental IO-470-V or IO-470-VO	
*Fuel	Grade 100 or 100LL aviation gasoline	
*Engine Limits	For all operations, 2625 r.p.m. (260 hp.)	
Propeller and Propeller Limits	1. 2 full-feathering 2-bladed propeller installations	
	a. McCauley hub D2AF34C81, blades 84JF-3 Diameter: not over 81 in., not under 78 in. Pitch settings at 30 in. sta.: low 12.8°, feathered 82.5°	62 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210290, C210355, A210438, 210444; 210446, A210449; McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, Cessna 0855030-12 dome with 0855030-14 and -15 bulkhead and 0855030-3 support	4 lbs. ea. (-23)
	2. 2 full-feathering 3-bladed propeller installations	
	a. McCauley hub D3AF32C80, blades 82NC-4 Diameter: not over 78 in., not under 74 in. Pitch settings at 30 in. sta.: low 12.5°, feathered 81.3°	79 lbs. ea. (-25)
	b. Hydraulic governor, Woodward 210105, 210155, 210280, 210290, C210355, A210438, 210444, 210446, A210449; McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, 3-bladed, McCauley D-3651 dome with D-3652 bulkhead	4 lbs. ea. (-23)

XV. Model 310K (cont'd)

*Airspeed Limits (CAS)	Maneuvering	170 m.p.h. (148 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	257 m.p.h. (224 knots)
	Flaps extended 35°	140 m.p.h. (122 knots)
	Landing gear extended	140 m.p.h. (122 knots)

*C.G. Range (Landing Gear Extended)
(+38.0) to (+43.1) at 5200 lbs.
(+43.6) at 4800 lbs.
(+32.0) to (+43.6) at 4300 lbs. or less
Straight line variation between points given

Empty Wt. C.G. Range: None

*Maximum Weight: Landing 5200 lbs., takeoff 5200 lbs.

No. of Seats: 5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements

Maximum Baggage: 200 lbs. (+96), 80 lbs. per side on floor (+124)
120 lbs. per nacelle (+63)

Fuel Capacity: 102 gal. (2 wing tip tanks, 51 gal. each at +35.0)
(See NOTE 1 for data on system fuel)

Oil Capacity: 24 qt. (12 qt. in each engine at (-3.5), 6 qt. unusable per engine)
(See NOTE 1 for data on system oil)

Control Surface Movements

Wing flaps			Down	35°
Main surfaces				
Aileron	Up	20°	Down	20°
Elevator	Up	16.5°	Down	15°
Rudder (Parallel to W.L.)	Right	25°	Left	25°
Tabs (main surface in neutral)				
Aileron	Up	20°	Down	20°
Elevator	Up	10°	Down	26°
Rudder (Parallel to W.L.)	Right	17°	Left	22°

Serial Nos. Eligible: 310K0001 through 310K0245. Production Certificate No. 312 effective.

XVI. Model 310L (Normal Category), Approved September 20, 1966

Engines: 2 Continental IO-470-V or IO-470-VO

*Fuel: Grade 100 or 100LL aviation gasoline

*Engine Limits: For all operations, 2625 r.p.m. (260 hp.)

Propeller and Propeller Limits

1. 2 full-feathering propeller installations
   a. McCauley hub D2AF34C81, blades 84JF-3 — 62 lbs. ea. (-25)
      Diameter: not over 81 in., not under 78 in.
      Pitch settings at 30 in. sta.:
      low 12.8°, feathered 82.5°
   b. Hydraulic governor, Woodward A210438, 210444, 210446, A210449; McCauley DCFU290D1/T2, DCFU290D2/T2 — 4 lbs. ea. (-17)

XVI. Model 310L (cont'd)

Propeller and Propeller Limits (cont'd)	c. Propeller spinner, Cessna 0855030-12 dome with 0855030-14 and -15 bulkhead and 0855030-3 support	4 lbs. ea. (-23)
	2. 2 full-feathering 3-bladed propeller installations	
	a. McCauley hubs D3AF32C80, blades 82NC-4 Diameter: not over 78 in., not under 74 in. Pitch settings at 30 in. sta.: low 12.5°, feathered 81.3°	79 lbs. ea. (-25)
	b. Hydraulic governor, Woodward A210438, 210444, 210446, A210449; McCauley DCFU290D1/T2, DCFU290D2/T2	4 lbs. ea. (-17)
	c. Propeller spinner, 3-bladed, McCauley D-3651 dome with D-3652 bulkhead	4 lbs. ea. (-23)

*Airspeed Limits (CAS)	Maneuvering	170 m.p.h. (148 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	257 m.p.h. (224 knots)
	Flaps extended 35°	160 m.p.h. (139 knots)
	Landing gear extended	160 m.p.h. (139 knots)

*C.G. Range (Landing Gear Extended)
(+38.0) to (+43.1) at 5200 lbs.
(+43.6) at 4800 lbs.
(+32.0) to (+43.6) at 4300 lbs. or less
Straight line variation between points given

Empty Wt. C.G. Range
None

*Maximum Weight
Landing 5200 lbs., takeoff 5200 lbs.

No. of Seats
5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements

Maximum Baggage
200 lbs. (+96), 80 lbs. per side on floor (+124), 120 lbs. per nacelle (+63)

Fuel Capacity
102 gal. (2 wing tip tanks, 51 gal. each at +35.0)
or 143 gal. (2 wing tip tanks, 51 gal. each at +35.0) and 2 auxiliary tanks 20.5 gal. each at +47.0)
or 183 gal. (2 wing tip tanks, 51 gal. each at +35.0, 2 auxiliary tanks, 20 gal. each at +47.0, and 2 wing locker transfer tanks, 20.0 gal. each at +49.0).
(See NOTE 1 for data on system fuel)

Oil Capacity
24 qt. (12 qt. in each engine at (-3.5), 6 qt. unusable per engine)
(See NOTE 1 for data on system oil)

Control Surface Movements

Wing flaps			Down	35°
Main surfaces				
Aileron	Up	20°	Down	20°
Elevator	Up	16.5°	Down	15°
Rudder (Parallel to W.L.)	Right	25°	Left	25°
Tabs (main surface in neutral)				
Aileron	Up	20°	Down	20°
Elevator	Up	10°	Down	26°
Rudder (Parallel to W.L.)	Right	17°	Left	22°

Serial Nos. Eligible
310L0001 through 310L0207. Production Certificate No. 312 effective.

XVII. Model 310N (Normal Category), Approved August 22, 1967

Engines	2 Continental IO-470-V or IO-470-VO	
*Fuel	Grade 100 or 100LL aviation gasoline	
*Engine Limits	For all operations, 2625 r.p.m. (260 hp.)	
Propeller and Propeller Limits	1. 2 full-feathering propeller installation a. McCauley hub D2AF34C81, blades 84JF-3 Diameter: not over 81 in., not under 78 in. Pitch settings at 30 in. sta.: low 12.8°, feathered 82.5° b. Hydraulic governor, Woodward 210446, 210444, A210438 or A210449; McCauley DCFU290D1/T2, DCFU290D2/T2 c. Propeller spinner, Cessna 0855030-12 dome with 0855030-14 and -15 bulkhead and 0855030-3 support 2. 2 full-feathering 3-bladed propeller installation a. McCauley hub D3AF32C80, blades 82NC-4 Diameter: not over 78 in., not under 74 in. Pitch settings at 30 in. sta.: low 12.5°, feathered 81.3° b. Hydraulic governor, Woodward 210446, 210444, A210438 or A210449; McCauley DCFU290D1/T2, DCFU290D2/T2 c. Propeller spinner, 3-blades, McCauley D-3651 dome with D-3652 bulkhead	
*Airspeed Limits (CAS)	Maneuvering	170 m.p.h. (148 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	257 m.p.h. (224 knots)
	Flaps extended 35°	160 m.p.h. (139 knots)
	Landing gear extended	160 m.p.h. (139 knots)
*C.G. Range (Landing Gear Extended)	(+38.0) to (+43.1) at 5200 lbs. (+43.6) at 4800 lbs. (+32.0) to (+43.6) at 4300 lbs. or less Straight line variation between points given	
Empty Wt. C.G. Range	None	
*Maximum Weight	Landing 5200 lbs., takeoff 5200 lbs.	
No. of Seats	5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.	
Maximum Baggage	200 lbs. (+96), 80 lbs. per side on floor (+124), 120 lbs. per nacelle (+63)	
Fuel Capacity	102 gal. (2 wing tip tanks, 51 gal. each at +35.0) or 143 gal. (2 wing tip tanks, 51 gal. each at +35.0 and 2 auxiliary tanks 20.5 gal. each at +47.0) or 183 gal. (2 wing tip tanks, 51 gal. each at +35.0 and 2 auxiliary tanks 20.5 gal. each at +47.0, and 2 wing locker tanks, 20.0 gal. each at +49.0) (See NOTE 1 for data on system fuel)	

XVII. Model 310N (cont'd)

Oil Capacity	24 qt. (12 qt. in each engine at (-3.5), 6 qt. unusable per engine) (See NOTE 1 for data on system oil)				
Control Surface Movements	Wing flaps			Down	35°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	16.5°	Down	15°
	Rudder (Parallel to W.L.)	Right	25°	Left	25°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	10°	Down	26°
	Rudder (Parallel to W.L.)	Right	17°	Left	22°
Serial Nos. Eligible	310N0001 through 310N0198. Production Certificate No. 312 effective.				

XVIII. Model 310P (Normal Category), Approved August 30, 1968

Engines: 2 Continental IO-470-VO

*Fuel: Grade 100 or 100LL aviation gasoline

*Engine Limits: For all operations, 2625 r.p.m. (260 hp.)

Propeller and Propeller Limits:

1. 2 full-feathering 2-bladed propeller installation
   a. McCauley hub D2AF34C71, blades 84JF-3
      Diameter: not over 81 in., not under 78 in.
      Pitch settings at 30 in. sta.:
      low 12.8°, feathered 82.6°
   b. Hydraulic governor, Woodward 210446, 210444, A210438 or A210499; McCauley DCF290D1/T2, DCFU290D1/T2, DCFS290D1/T2, DCFUS290D2/T2, DCF290D2/T2, DCFU290D2/T2, DCFS290D2/T2, DCFUS290D2/T2, DCFS290D7/T2, DCFUS290D7/T2 or DCFUS290D13/T2
   c. Propeller spinner, McCauley D3935 dome with D3923 bulkhead and 0855030-3 support

2. 2 full-feathering 3-bladed propeller installation
   a(1) McCauley hub 3AF32C87, blades 82NC-4.
      Diameter: not over 78 in., not under 74 in.
      Pitch settings at 30 in sta.:
      Low 12.5°, feathered 81.3°

   or

   a(2) McCauley hub 3AF32C504, with 82NEA-5.5 blades.
      Diameter: not over 76.5 in., not under 74 in.
      Pitch settings at 30 in. sta.:
      low 13.0°, feathered 81.7°
   b. Hydraulic governor, Woodward 210446, 210444, A210438 or A210499; McCauley DCF290D1/T2, DCFU290D1/T2, DCFS290D1/T2, DCFUS290D2/T2, DCF290D2/T2, DCFU290D2/T2, DCFS290D2/T2, DCFUS290D2/T2, DCFS290D7/T2, DCFUS290D7/T2 or DCFUS290D13/T2
   c. Propeller spinner, McCauley D3651 dome and D3925 bulkhead with 3AF32C87 hub or McCauley D7185 spinner assembly with 3AF32C504 hub

XVIII. Model 310P (cont'd)

*Airspeed Limits (CAS)	Maneuvering	170 m.p.h. (148 knots)
	Maximum structural cruising	210 m.p.h. (183 knots)
	Never exceed	257 m.p.h. (224 knots)
	Flaps extended 35°	160 m.p.h. (139 knots)
	Landing gear extended	160 m.p.h. (139 knots)

*C.G. Range (Landing Gear Extended)	(+38.0) to (+43.1) at 5200 lbs. (+43.6) at 4800 lbs. (+32.0) to (+43.6) at 4300 lbs. or less Straight line variation between points given
Empty Wt. C.G. Range	None
*Maximum Weight	Landing 5200 lbs., takeoff 5200 lbs.
No. of Seats	5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements
Maximum Baggage	200 lbs. (+96), 80 lbs. per side on floor (+124) 120 lbs. per nacelle (+63)
Fuel Capacity	102 gal. (2 wing tip tanks, 51 gal. each at +35.0) or 143 gal. (2 wing tip tanks, 51 gal. each at +35.0 and 2 auxiliary tanks, 20.5 gal. each at +47.0) or 183 gal. (2 wing tip tanks, 51 gal. each at +35.0, 2 auxiliary tanks, 20.5 gal. each at +47.0 and 2 wing locker tanks, 20.5 gal. each at +49.0) (See NOTE 1 for data on system fuel)
Oil Capacity	6 gal. (3 gal. in each engine at (-3.5), unusable 1.5 gal. per engine) (See NOTE 1 for data on system oil)

Control Surface Movements	Wing flaps			Down	35°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	16.5°	Down	15°
	Rudder (Parallel to W.L.)	Right	25°	Left	25°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	10°	Down	26°
	Rudder (Parallel to W.L.)	Right	17°	Left	22°

Serial Nos. Eligible	310P0001 through 310P0240. Production Certificate No. 312 effective.

XIX. Model T310P (Turbo-System 310P) (Normal Category), Approved August 30, 1968

Engines	2 Continental TSIO-520-B or TSIO-520-BB
*Fuel	Grade 100 or 100LL aviation gasoline

XIX. Model T310P (cont'd)

*Engine Limits

For all operations, 2700 r.p.m. (285 hp., 32 in. Hg MP)
(Critical altitude is 16,000 ft. in standard atmosphere)

Altitude	Maximum Allowable MP
Sea level	32.0 in. Hg
16,000 ft.	32.0 in. Hg
18,000 ft.	30.7 in. Hg
20,000 ft.	29.0 in. Hg
22,000 ft.	26.4 in. Hg
24,000 ft.	24.3 in. Hg
26,000 ft.	22.2 in. Hg
28,000 ft.	20.2 in. Hg
30,000 ft.	18.5 in. Hg
32,000 ft.	17.0 in. Hg

Propeller and Propeller Limits

1. 2 full-feathering 2-bladed propeller installations
   a. McCauley Hub D2AF34C71 with 84JF-3 blades
      Diameter: not over 81 in., not under 79 in.
      Pitch settings at 30 in. sta.:
      low 13.3°, feathered 82.7°
   b. Hydraulic governor Woodward B210446, A210529, B210444 or C210439; McCauley DCFS290D1/T3, DCFUS290D1/T3, DCFS290D2/T3, DCFUS290D2/T3, DCFS290D7/T3, DCFUS290D7/T3 or DCFUS290D13/T3
   c. Propeller spinner McCauley D3800 dome with D3818 bulkhead

2. 2 full-feathering 3-bladed propeller installations
   a. McCauley hubs 3AF32C87 with 82NC-4 blades or McCauley hubs 3AF32C504 with 82NEA-4 blades
      Diameter: not over 78 in., not under 74 in.
      Pitch settings at 30 in. sta.:
      low 13.0°, feathered 82.6°
   b. Hydraulic governor Woodward B210446, A210529, B210444 or C210439; McCauley DCFS290D1/T3, DCFUS290D1/T3, DCFS290D2/T3, DCFUS290D2/T3, DCFS290D7/T3, DCFUS290D7/T3 or DCFUS290D13/T3
   c. Propeller spinner McCauley D3534 dome with D3796 bulkhead

*Airspeed Limits CAS)

Maneuvering	170 m.p.h. (148 knots)
Maximum structural cruising	210 m.p.h. (183 knots)
Never exceed	257 m.p.h. (224 knots)
Flaps extended 35°	160 m.p.h. (139 knots)
Landing gear extended	160 m.p.h. (139 knots)

*C.G. Range (Landing Gear Extended)

(+38.0) to (+43.1) at 5400 lbs.
(+43.6) at 5000 lbs.
(+32.0) to (+43.6) at 4500 lbs. or less
Straight line variation between points given

Empty Wt. C.G. Range

None

XIX. Model T310P (cont'd)

*Maximum Weight	Landing 5400 lbs., takeoff 5400 lbs.				
No. of Seats	5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.				
Maximum Baggage	200 lbs. (+96), 80 lbs. per side on floor (+124) 120 lbs. per nacelle (+63)				
Fuel Capacity	102 gal. (2 wing tip tanks, 51 gal. each at +35.0) or 143 gal. (2 wing tip tanks, 51 gal. each at +35.0 and 2 auxiliary tanks, 5 gal. each at +47.0) or 183 gal. (2 wing tip tanks, 51 gal. each at +35.0, 2 auxiliary tanks 20.5 gal. each at .0 and 2 wing locker tanks, 20.5 gal. each at +49.0) (See NOTE 1 for data on system fuel)				
Oil Capacity	6.5 gal. (3.25 gal. in each engine at (-3.5), unusable 1.5 gal. per engine) (See NOTE 1 for data on system oil)				
Control Surface Movements	Wing flaps			Down	35°
	Main surfaces				
	Aileron	Up	20°	Down	20°
	Elevator	Up	16.5°	Down	15°
	Rudder (Parallel to W.L.)	Right	29.3°	Left	29.3°
	Tabs (main surface in neutral)				
	Aileron	Up	20°	Down	20°
	Elevator	Up	10°	Down	26°
	Rudder (Parallel to W.L.)	Right	17°	Left	22°
Serial Nos. Eligible	310P0001 through 310P0240. Production Certificate No. 312 effective.				

XX. Model 310Q (Normal Category), Approved August 20, 1969

Engines: 2 Continental IO-470-VO

*Fuel: Grade 100 or 100LL aviation gasoline

*Engine Limits: For all operations, 2625 r.p.m. (260 hp.)

Propeller and Propeller Limits:

1. 2 full-feathering 2-bladed propeller installations
   a. McCauley hubs D2AF34C71, blades 84JF-3
      Diameter: not over 81 in., not under 78 in.
      Pitch settings at 30 in. sta.:
      low 12.8°, feathered 82.6°
   b. Hydraulic governor, Woodward 210444, 210446, A210438, A210499; McCauley DCF290D1/T2, DCFU290D1/T2, DCFS290D1/T2, DCFUS290D1/T2, DCF290D2/T2, DCFU290D2/T2, DCFS290D2/T2, DCFUS290D2/T2, DCFS290D7/T2, DCFUS290D7/T2 or DCFUS290D13/T2
   c. Propeller spinner, McCauley D3935 dome with D3923 bulkhead and 0855030-3 support

XX. Model 310Q (cont'd)

Propeller and Propeller Limits (cont'd)

2. 2 full-feathering 3-bladed propeller installations
   a(1) McCauley hubs 3AF32C87, blades 82NC-4
   Diameter: Not over 78 in., not under 74 in.
   Pitch settings at 30 in. sta.:
   low 12.5°, feathered 81.3°

or a(2) McCauley hubs 3AF32C504, with 82NEA-5.5 blades
   Diameter: not over 76.5 in., not under 74 in.
   Pitch settings at 30 in. sta.:
   low 13.0°, feathered 81.7°

   b. Hydraulic governor, Woodward 210444, 210446, A210438 or A210499; McCauley DCF290D1/T2, DCFU290D1/T2, DCFS290D1/T2, DCFUS290D1/T2, DCF290D2/T2, DCFU290D2/T2, DCFS290D2/T2, DCFUS290D2/T2, DCFS290D7/T2, DCFUS290D7/T2 or DCFUS290D13/T2

   c. Propeller spinner, McCauley D3651 dome and D3925 bulkhead with 3AF32C87 hub or McCauley D7185 spinner assembly with 3AF32C504 hub

*Airspeed Limits (CAS)

S/N 310Q0001 through 310Q0845

Maneuvering	170 m.p.h. (148 knots)
Maximum structural cruising	210 m.p.h. (183 knots)
Never exceed	257 m.p.h. (224 knots)
Flaps extended 15°	180 m.p.h. (157 knots)
Flaps extended 35°	160 m.p.h. (139 knots)
Landing gear extended	160 m.p.h. (139 knots)

*Airspeed Limits

S/N 310Q0901 through 310Q1160

Maneuvering	148 knots (170 m.p.h.)
Maximum structural cruise	183 knots (210 m.p.h.)
Never exceed	224 knots (257 m.p.h.)
Flaps extended 15°	160 knots (184 m.p.h.)
Flaps extended 35°	140 knots (161 m.p.h.)
Landing gear extended	140 knots (161 m.p.h.)

*C.G. Range (Landing Gear Extended)

(+37.3) to (+43.1) at 5300 lbs.
(+43.6) at 4900 lbs.
(+32.0) to (+43.6) at 4500 lbs. or less
Straight line variation between points given

Empty Wt. C.G. Range

None

*Maximum Weight

Landing 5300 lbs. - Takeoff 5300 lbs.

No. of Seats

5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements

Maximum Baggage

200 lbs. (+96), 80 lbs. per side on floor (+124),
120 lbs. per nacelle (+63)

XX. Model 310Q (cont'd)

Fuel Capacity

Tank	Capacity (Gal.)	Usable(Gal.)	Moment Arm
S/N 310Q0001 through 310Q1160			
LH tip tank	51	50	+35
RH tip tank	51	50	+35
LH aux. tank (40 gal. opt)	20.5	20	+47
RH aux. tank (40 gal. opt)	20.5	20	+47
LH wing locker tank	20.5	20	+49
RH wing locker tank	20.5	20	+49
S/N 310Q0601 through 310Q1160			
LH aux. tank (63 gal. opt)	32	31.5	+47
RH aux. tank (63 gal. opt)	32	31.5	+47

(See NOTE 1 for data on unusable fuel)

Oil Capacity: 6 gallons (3 gal. in each engine at (-3.5), unusable 1.5 gal. each engine)
(See NOTE 1 for data on undrainable oil)

Control Surface Movements

Wing flaps			Down	35°
Main surfaces				
Aileron	Up	20°	Down	20°
Elevator	Up	16.5°	Down	15°
Rudder (Parallel to W.L.)	Right	25°	Left	25°
Tabs (main surface in neutral)				
Aileron	Up	20°	Down	20°
Elevator	Up	10°	Down	26°
Rudder (Parallel to W.L.)	Right	17°	Left	22°

Serial Nos. Eligible: 310Q0001 through 310Q1160. Production Certificate No. 312 effective

XXI. Model T310Q (Turbo-System 310Q) (Normal Category), Approved August 20, 1969

Engines: 2 Continental TSIO-520-B or TSIO-520-BB

*Fuel: Grade 100 or 100LL aviation gasoline

*Engine Limits: For all operations, 2700 r.p.m. (285 hp., 32 in. Hg MP)
Critical altitude is 16,000 ft. in standard atmosphere.

Altitude	Maximum Allowable MP
Sea level	32.0 in. Hg
16,000 ft.	32.0 in. Hg
18,000 ft.	30.7 in. Hg
20,000 ft.	29.0 in. Hg
22,000 ft.	26.4 in. Hg
24,000 ft.	24.3 in. Hg
26,000 ft.	22.2 in. Hg
28,000 ft.	20.2 in. Hg
30,000 ft.	18.5 in. Hg
32,000 ft.	17.0 in. Hg

XXI. Model T310Q (cont'd)

Propeller and Propeller Limits

1. 2 full-feathering 2-bladed propeller installations
   a. McCauley Hub D2AF34C71 with 84JF-3 blades
      Diameter: not over 81 in., not under 79 in.
      Pitch settings at 30 in. sta.:
      low 13.3°, feathered 82.7°
   b. Hydraulic governor, Woodward B210446, A210529; McCauley DCFS290D1/T3, DCFUS290D1/T3, DCFS290D2/T3, DCFUS290D2/T3, DCFS290D7/T3, DCFUS290D7/T3 or DCFUS290D13/T3
   c. Propeller spinner, McCauley D3800 dome with D3818 bulkhead

2. 2 full-feathering 3-bladed propeller installations
   a. McCauley hubs 3AF32C87 with 82NC-4 blades or McCauley hubs 3AF32C504 with 82NEA-4 blades
      Diameter: not over 78 in., not under 74 in.
      Pitch settings at 30 in. sta.:
      low 13.0°, feathered 82.6°
   b. Hydraulic governor Woodward A210529, B210446; McCauley DCFS290D1/T3, DCFUS290D1/T3, DCFS290D2/T3, DCFUS290D2/T3, DCFS290D7/T3, DCFUS290D7/T3 or DCFUS290D13/T3
   c. Propeller spinner McCauley D3534 dome with D3796 bulkhead

*Airspeed Limits (CAS)

S/N 310Q0001 through 310Q0845

Maneuvering	172 m.p.h. (150 knots)
Maximum structural cruising	210 m.p.h. (183 knots)
Never exceed	261 m.p.h. (227 knots)
Flaps extended 15°	180 m.p.h. (157 knots)
Flaps extended 35°	160 m.p.h. (139 knots)
Landing gear extended	160 m.p.h. (139 knots)

S/N 310Q0901 through 310Q1160

Maneuvering	150 knots (172 m.p.h.)
Maximum structural cruising	183 knots (210 m.p.h.)
Never exceed	227 knots (261 m.p.h.)
Flaps extended 15°	160 knots (184 m.p.h.)
Flaps extended 35°	140 knots (161 m.p.h.)
Landing gear extended	140 knots (161 m.p.h.)

*C.G. Range (Landing Gear Extended)

(+38.7) to (+43.1) at 5500 lbs. (takeoff)
(+38.0) to (+43.2) at 5400 lbs. (landing)
(+43.6) at 5100 lbs.
(+32.0) to (+43.6) at 4500 lbs. or less
Straight line variation between points given

Landing gear retracted moment change: +848 in. lbs.

Empty Wt. C.G. Range

None

*Maximum Weight

Landing 5400 lbs., takeoff 5500 lbs.

No. of Seats

5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.

XXI. Model T310Q (cont'd)

Maximum Baggage: 200 lbs. (+96), 80 lbs. per side on floor (+124)
120 lbs. per nacelle (+63)

Fuel Capacity:

Tank	Capacity (Gal.)	Usable (Gal.)	Moment Arm
S/N 310Q0001 through 310Q1160			
LH tip tank	51	50	+35
RH tip tank	51	50	+35
LH aux. tank (40 gal. opt)	20.5	20	+47
RH aux. tank (40 gal. opt)	20.5	20	+47
LH wing locker tank	20.5	20	+49
RH wing locker tank	20.5	20	+49
S/N 310Q0601 through 310Q1160			
LH aux. tank (63 gal. opt)	32	31.5	+47
RH aux. tank (63 gal. opt)	32	31.5	+47

(See NOTE 1 for data on unusable fuel)

Oil Capacity: 6.5 gal. (3.25 gal. in each engine at (-3.5), usable 1.75 gal. ea. engine)
(See NOTE 1 for data on undrainable oil)

Control Surface Movements:

Wing flaps			Down	35°
Main surfaces				
Aileron	Up	20°	Down	20°
Elevator	Up	16.5°	Down	15°
Rudder (Parallel to W.L.)	Right	29.3°	Left	29.3°
Tabs (main surface in neutral)				
Aileron	Up	20°	Down	20°
Elevator	Up	10°	Down	26°
Rudder (Parallel to W.L.)	Right	17°	Left	22°

Serial Nos. Eligible: 310Q0001 through 310Q1160. Production Certificate No. 312 effective.

XXII. Model 310R (Normal Category), Approved August 15, 1974

Engines:
S/N 310R0001 through 310R1434
2 Continental IO-520-M or IO-520-MB

S/N 310R1501 through 310R2140
2 Continental IO-520-MB

*Fuel: Grade 100 or 100LL aviation gasoline

*Engine Limits: For all operations, 2700 r.p.m. (285 hp.)

Propeller and Propeller Limits:
1. 2 full-feathering 3-bladed propeller installations
   a(1) McCauley hubs 3AF32C87, blades 82NC-5.5
   Diameter: Not over 76.5 in., not under 74.5 in.
   Pitch settings at 30 in. sta.:
   Low 13.9°, feathered 81.7°
   or a(2) McCauley hubs 3AF32C504, with 82NEA-5.5 blades
   Diameter: not over 76.5 in., not under 76.0 in.
   Pitch settings at 30 in. sta.:
   low 13.9°, feathered 81.7°

XXII. Model 310R (cont'd)

Propeller and Propeller Limits (cont'd)

b. S/N 310R0001 through 310R0330
Hydraulic governor Woodward A210529, B210444, B210446 or C210439; McCauley DCF290D2/T3, DCFS290D2/T3, DCFU290D2/T3, DCFUS290D2/T3, DCF290D7/T3, DCFS290D7/T3, DCFU290D7/T3, DCFUS290D7/T3, DCFU290D13/T3 or DCFUS290D13/T3

S/N 310R0501 through 310R1004
Hydraulic governor Woodward B210444, C210439; McCauley DCF290D2/T3, DCFU290D2/T3, DCFS290D4/T3, DCFS290D5/T3, DCFUS290D4/T3, DCFUS290D5/T3, DCF290D7/T3, DCFUS290D7/T3, DCFS290D7/T3, DCFS290D8/T3, DCFUS290D7/T3, DCFUS290D8/T3, DCFU290D13/T3, DCFUS290D13/T3 or DCFUS290D12/T3

S/N 310R01201 through 310R2140
Hydraulic governor Woodward B210444, C210439; McCauley DCF290D2/T3, DCFU290D2/T3, DCFS290D4/T3, DCFS290D5/T3, DCFUS290D4/T3, DCFUS290D6/T3, DCF290D7/T3, DCFU290D7/T3, DCFS290D7/T3, DCFS290D8/T3, DCFUS290D7/T3, DCFUS290D8/T3, DCFU290D13/T3, DCFUS290D13/T3 or DCFUS290D12/T3

c. Propeller spinner, McCauley D3534 dome with D3796 bulkhead or D-5212 dome with D-5214 bulkhead.

*Airspeed Limits (CAS)

S/N 310R0001 through 310R0330

Maneuvering	150 knots (172 m.p.h.)
Maximum structural cruising	183 knots (210 m.p.h.)
Never exceed	227 knots (261 m.p.h.)
Flaps extended 15°	160 knots (184 m.p.h.)
Flaps extended 35°	140 knots (161 m.p.h.)
Landing gear extended	140 knots (161 m.p.h.)

(IAS)

S/N 310R0501 through 310R2140

Maneuvering	148 KIAS (170 m.p.h.)
Maximum structural cruising	181 KIAS (208 m.p.h.)
Never exceed	223 KIAS (257 m.p.h.)
Flaps extended 15°	158 KIAS (182 m.p.h.)
Flaps extended 35°	139 KIAS (160 m.p.h.)
Landing gear extended	138 KIAS (159 m.p.h.)

*C.G. Range (Landing Gear Extended)

(+38.7) to (+43.1) at 5500 lbs. (takeoff)
(+38.0) to (+43.2) at 5400 lbs. (landing)
(+43.6) at 5100 lb.
(+32.0) to (+43.6) at 4500 lbs. or less
Straight line variation between points given
Landing gear retracted moment change: +782 in. lbs.

Empty Wt. C.G. Range

None

*Maximum Weight

S/N 310R0001 through 310R1004
Landing 5400 lbs., takeoff 5500 lbs.

S/N 310R1201 through 310R2140
Landing 5400 lbs., ramp 5535 lb., takeoff 5500 lbs.

No. of Seats

5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements

XXII. Model 310R (cont'd)

Maximum Baggage: 200 lbs. (+96), 80 lbs. per side on floor (+124), 120 lbs. per nacelle (+63), 350 lb. nose (-31)

Fuel Capacity

Tank	Capacity (Gal)	Usable (Gal)	Moment Arm
LH tip tank	51	50	+35
RH tip tank	51	50	+35
LH aux. tank (40 gal. opt)	20.5	20	+47
RH aux. tank (40 gal. opt)	20.5	20	+47
LH aux. tank (63 gal. opt)	32	31.5	+47
RH aux. tank (63 gal. opt)	32	31.5	+47
LH wing locker tank	20.5	20	+49
RH wing locker tank	20.5	20	+49

(See NOTE 1 for data on unusable fuel)

Oil Capacity: 6.5 gal. (3.25 gal. in each engine at (-3.5), usable 1.75 gal. ea. engine)
(See NOTE 1 for data on undrainable oil)

Control Surface Movements

Wing flaps			Down	35°
Main surfaces				
Aileron	Up	20°	Down	20°
Elevator	Up	16.5°	Down	15°
Rudder (Parallel to W.L.)	Right	29.3°	Left	29.3°
Tabs (main surface in neutral)				
Aileron	Up	20°	Down	20°
Elevator	Up	10°	Down	26°
Rudder (Parallel to W.L.)	Right	17°	Left	22°

Serial Nos. Eligible: 310R0001 through 310R2140. Production Certificate No. 312 effective.

XXIII. Model T310R (Turbo-System 310R) (Normal Category), Approved August 15, 1974

Engines:

S/N 310R0001 through 310R1434
2 Continental TSIO-520-B or TSIO-520-BB

S/N 310R1501 through 310R2140
2 Continental TSIO-520-BB

*Fuel: Grade 100 or 100LL aviation gasoline

*Engine Limits: For all operations, 2700 r.p.m. (285 hp. 32 in. Hg MP)
Critical altitude is 16,000 ft. in standard atmosphere

Altitude	Maximum Allowable MP
Sea level	32.0 in. Hg
16,000 ft.	32.0 in. Hg
18,000 ft.	30.7 in. Hg
20,000 ft.	29.0 in. Hg
22,000 ft.	26.4 in. Hg
24,000 ft.	24.3 in. Hg
26,000 ft.	22.2 in. Hg
28,000 ft.	20.2 in. Hg
30,000 ft.	18.5 in. Hg
32,000 ft.	17.0 in. Hg

XXIII. Model T310R (cont'd)

Propeller and Propeller Limits

1. 2 full-feathering 3-bladed propeller installations
   a. McCauley hubs 3AF32C87 with 82NC-4 blades or McCauley hubs 3AF32C504 with 82NEA-4 blades
   Diameter: not over 78 in., not under 74 in.
   Pitch settings at 30 in. sta.:
   low 13.0°, feathered 82.6°

   b. S/N 310R0001 through 310R0330
   Hydraulic governor Woodward A210529, B210446; McCauley DCFS290D2/T3, DCFUS290D2/T3, DCFS290D7/T3, DCFUS290D7/T3 or DCFUS290D13/T3

   S/N 310R0501 through 310R1004
   Hydraulic governor McCauley DCFS290D4/T3, DCFS290D5/T3, DCFUS290D4/T3, DCFUS290D5/T3, DCFS290D7/T3, DCFS290D8/T3, DCFUS290D7/T3, DCFUS290D8/T3, DCFUS290D13/T3 or DCFUS290D12/T3

   S/N 310R1201 through 310R2140
   Hydraulic governor McCauley DCFS290D4/T3, DCFS290D6/T3, DCFUS290D4/T3, DCFUS290D6/T3, DCFS290D7/T3, DCFS290D8/T3, DCFUS290D7/T3, DCFUS290D8/T3, DCFUS290D13/T3 or DCFUS290D12/T3

   c. Propeller spinner McCauley D3534 dome with D3796 bulkhead

*Airspeed Limits (CAS)

S/N 310R0001 through 310R0330

Maneuvering	150 knots (172 m.p.h.)
Maximum structural cruising	183 knots (210 m.p.h.)
Never exceed	227 knots (261 m.p.h.)
Flaps extended 15°	160 knots (184 m.p.h.)
Flaps extended 35°	140 knots (161 m.p.h.)
Landing gear extended	140 knots (161 m.p.h.)

(IAS)

S/N 310R0501 through 310R2140

Maneuvering	148 KIAS (170 m.p.h.)
Maximum structural cruising	181 KIAS (208 m.p.h.)
Never exceed	223 KIAS (257 m.p.h.)
Flaps extended 15°	158 KIAS (182 m.p.h.)
Flaps extended 35°	139 KIAS (160 m.p.h.)
Landing gear extended	138 KIAS (159 m.p.h.)

*C.G. Range (Landing Gear Extended)

(+38.7) to (+43.1) at 5500 lbs. (takeoff)
(+38.0) to (+43.2) at 5400 lbs. (landing)
(+43.6) at 5100 lbs.
(+32.0) to (+43.6) at 4500 lbs. or less
Straight line variation between points given

Landing gear retracted moment change: +782 in. lbs.

Empty Wt. C.G. Range

None

XXIII. Model T310R (cont'd)

*Maximum Weight

S/N 310R0001 through 310R1004
Landing 5400 lbs., takeoff 5500 lbs.

S/N 310R1201 through 310R2140
Landing 5400 lbs., ramp 5535 lbs., takeoff 5500 lbs.

No. of Seats

5 (Std.) (2 at +37, 3 at +71). See Manufacturer's Weight and Balance data sheet for optional seating arrangements.

Maximum Baggage

200 lbs. (+96), 80 lbs. per side on floor (+124)
120 lbs. per nacelle (+63), 350 lb. nose (-31)

Fuel Capacity

Tank	Capacity (Gal)	Usable (Gal)	Moment Arm
LH tip tank	51	50	+35
RH tip tank	51	50	+35
LH aux. tank (40 gal. opt)	20.5	20	+47
RH aux. tank (40 gal. opt)	20.5	20	+47
LH aux. tank (63 gal. opt)	32	31.5	+47
RH aux. tank (63 gal. opt)	32	31.5	+47
LH wing locker tank	20.5	20	+49
RH wing locker tank	20.5	20	+49

(See NOTE 1 for data on unusable fuel)

Oil Capacity

6.5 gal. (3.25 gal. in each engine at (-3.5), usable 1.75 gal. ea. engine)
(See NOTE 1 for data on undrainable oil)

Control Surface Movements

Wing flaps			Down	35°
Main surfaces				
Aileron	Up	20°	Down	20°
Elevator	Up	16.5°	Down	15°
Rudder (Parallel to W.L.)	Right	29.3°	Left	29.3°
Tabs (main surface in neutral)				
Aileron	Up	20°	Down	20°
Elevator	Up	10°	Down	26°
Rudder (Parallel to W.L.)	Right	17°	Left	22°

Serial Nos. Eligible

310R0001 through 310R2140. Production Certificate No. 312 effective.

Data Pertinent to All Models

Datum	Forward face of fuselage bulkhead forward of rudder pedals.
*Leveling Means	Models 310Q, 310R, T310R: External splice plate on left side of fuselage under the windows. External leveling screws at F.S. 59.10 and F.S. 88.90 additional

Certification Basis:

Models 310, 310A, 310B, 310C, 310D, 310E, 310F
CAR 3 dated November 1, 1949, as amended by 3-1 through 3-10.

Models 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P
CAR 3 dated November 1, 1949, as amended by 3-1 through 3-10 and Sections 3.109, 3.111, 3.112, 3.115, 3.118 and 3.120 of CAR 3 dated May 15, 1956, as amended by 3-2 and 3-5.

Models 310Q, T310Q
CAR 3 dated November 1, 1949, as amended by 3-1 through 3-10, Sections 3.109, 3.111, 3.112, 3.115, 3.118, 3.118, 3.120 and 3.688 of CAR 3 dated May 15, 1956, as amended by 3-2, 3-5 and 3-8.

Models 310R, T310R
CAR 3 dated November 1, 1949, as amended by 3-1 through 3-10 and Sections 3.109, 3.111, 3.112, 3.115, 3.118, 3.120 and 3.688 of CAR 3 dated May 15, 1956, as amended by 3-2, 3-5 and 3-8; and Sections 23.161 and 23.171 through 23.181 of FAR 23 dated February 1, 1965, as amended by 23-1 through 23-7, and 23.1327 as amended through 23-23.

Model 310R/T310R, S/N 310R0801 through 310R2140
In addition to the above certification basis, compliance with ice protection has been demonstrated in accordance with FAR 23.1419 of Amendment 23-14 effective December 20, 1973, when ice protection equipment is installed in accordance with the Pilot's Operating Handbook and Factory Kit (FK) No. 194.

Model 310R/T310R, S/N 310Q0901 through 310Q1160
Markings, placards and manuals are primarily in knots instead of m.p.h. as required by CAR 3, but permitted by FAR 23, Amendment 23-7.

Model 310R/T310R, S/N 310R0501 through 310R2140
Findings of equivalent level of safety were made for CAR 3.757 and 3.778(a).

Model 310R/T310R, S/N 310R1801 through 310R2140
In addition to the above certification basis, compliance with noise certification requirements has been demonstrated in accordance with FAR 36 dated December 1, 1969, as amended through 36-10.

Application for type certificate dated April 9, 1952. Type Certificate No. 3A10 issued March 22, 1954. Model 310A and subsequent certificated under delegation option procedures.

Production Basis:

Production Certificates Nos. 4 and 312 (refer to "S/N eligible for applicability"). Delegation Option Manufacturer Nos. CE-1 and CE-3 authorized to issue airworthiness certificates under delegation option provisions of Part 21 of the FAR. Effective February 15, 1985, and on, Production Certificate No. 4 is applicable to all spares production.

Data Pertinent to All Models

Equipment:
The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. In addition, the following items of equipment are required:

1. (a) Models 310C, 310D, 310E, 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K: Airspeed Indicator, Cessna Dwg. 0813604 or CM 2640 or complying with TSO-C2,
   (b) Model 310L: Airspeed Indicator, Cessna Dwg. CM 3301-4.
   (c) Models 310N, 310P: Airspeed Indicator, Cessna Dwg. CM-3301-6.
   (d) Model T310P: Airspeed Indicator, Cessna Dwg. CM 3301-2.
   (e) Model 310Q, S/N 310Q0001 through 310Q0845: Airspeed Indicator, Cessna Dwg. C661040-0102.
   (f) Model T310Q, S/N 310Q0001 through 310Q0845: Airspeed Indicator, Cessna Dwg. C661040-0103.
   (g) Model 310Q, S/N 310Q0901 through 310Q1160: Airspeed Indicator, Cessna Dwg. C661040-0202.
   (h) Model T310Q, S/N 310Q0901 through 310Q1160: Airspeed Indicator, Cessna Dwg. C661040-0203.
   (i) Models 310R, S/N 310R0001 through 310R0330, T310R, S/N 310R0001 through 310R0330: Airspeed Indicator, Cessna Dwg. C661040-0208.
   (j) Models 310R, S/N 310R0501 through 310R2140, T310R, S/N 310R0501 through 310R2140: Airspeed Indicator, Cessna Dwg. C661040-0209.
2. (a) Models 310G, 310H, E310H, 310I, 310J, 310J-1, E310J: Safe Flight Stall Warning Indicator (Model 146-5), 24v.
   (b) Models 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R, or as modified by MEB-34-05, Models 310Q, T310Q, 310R, T310R: Safe Flight Stall Warning Indicator (Model 285), 24v.
   (c) Models 310Q and T310Q: Safe Flight Stall Warning Indicator (Model 285), or Angle of Attack Indicator System, Cessna Dwg. 0800302.

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 certificated empty weight and corresponding center of gravity location must include undrainable oil (not included in oil capacity) and unusable fuel (not included in fuel capacity) as follows:

Fuel	6 lbs. at (+44)	310, 310A, 310B
Oil	1 lb. at (+ 0)	310, 310A, 310B
Fuel	12 lbs. at (+44)	310C, 310D, 310E, 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R
Oil	l lb. at (-3.5)	310C, 310D, 310E, 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R

Models 310, 310A, 310B, 310C, 310D, 310E, 310F, 310G, 310H, E310H, 310I, 310J, E310J, 310J-1, 310K: When two 15.5 gal. auxiliary fuel tanks are installed, an additional 6 lbs. of unusable fuel at (+47) must be included.

Models 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R: When two 20.5 gal. auxiliary fuel tanks are installed, an additional 6 lbs. of unusable fuel at (+47) must be included.

Models 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R: When two 20.5 gal. wing locker fuel tanks are installed, an additional 6 lbs. of unusable fuel at (+58) must be included.

Models 310Q and T310Q S/N 310Q0601 through 310Q1160, 310R and T310R: When two 32 gal. auxiliary fuel tanks are installed, an additional 6 lbs. of unusable fuel at (+47) must be included.

Data Pertinent to All Models

NOTE 2. Model 310R/T310R, S/N 310R1501 through 310R2140:
The placards specified in the FAA Approved AFM must be displayed.

Models 310, 310A, 310B, 310C, 310D, 310E, 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R S/N 310R0001 through 310R1434, T310R S/N 310R0001 through 310R1434, the following placards must be displayed as indicated:

1. "Operation Limits" (On Circuit Breaker Panel)
   a. Models 310, 310A, 310B, 310C, 310D, 310E, 310F, 310G, 310H, 310I, 310J, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R S/N 310R0001 through 310R1004, T310R S/N 310R0001 through 310R1004: "This airplane must be operated as a normal category airplane in compliance with the operating limitations as stated in the form of placards, markings and manuals (Pilot's Check List)."
   b. Model 310J-1: "This airplane must be operated as a normal or utility category airplane compliance with the operating limitations as stated in the form of placards, markings and manuals (Pilot's Check List)."

2. a. Models 310, 310A, 310B, 310C, 310D, 310E, 310F, 310G, 310H, 310I, 310J, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R S/N 310R0001 through 310R1004, T310R S/N 310R0001 through 310R1004: "No acrobatic maneuvers including spins approved."
   b. Model 310J-1: "Intentional spins prohibited;

Approved Maneuvers	Maximum Safe Entry Speed
Lazy Eights	160 m.p.h. (CAS)
Steep Turns	160 m.p.h. (CAS)
Chandelles	160 m.p.h. (CAS)"

3. a. Model 310: "Minimum speed for single engine operation 95 mph. (TIAS)"
   b. Models 310A, 310B: "Minimum speed for single engine operation 84 mph. (TIAS)
   c. Model 310C: "Minimum speed for single engine operation 86 mph. (TIAS)"
   d. Models 310D, 310F: "Minimum speed for single engine operation 83 mph. (TIAS)"
   e. Model 310E: "Minimum speed for single engine operation 88 mph. (TIAS)"
   f. Model 310G: "Minimum speed for single engine operation 84 mph. (CAS)"
   g. Models 310H, E310H: “Minimum speed for single engine operation 90 mph. (CAS)"
   h. Models 310I, 310J, 310J-1, E310J, 310K, 310L: "Minimum speed for single engine operation 85 mph. (CAS)"
   i. Models 310N, 310P: "Minimum speed for single engine operation 85 mph. (CAS)"

4. a. Model T310P: "Minimum single engine control speed 90 mph. (CAS)"
   b. Model 310Q S/N 310Q0001 through 310Q0845:
   "Minimum single engine control speed 86 mph. (CAS)"
   c. Model T310Q S/N 310Q0001 through 310Q0845:
   "Minimum single engine control speed 94 mph. (CAS)"
   d. Model 310Q S/N 310Q0901 through 310Q1160:
   "Minimum single engine control speed 75 knots (CAS)"
   e. Models T310Q S/N 310Q0901 through 310Q1160, 310R, S/N 310R0001 through 310R0330, T310R S/N 310R0001 through 310R0330: "Minimum single engine control speed 81 knots (CAS)"
   f. Models 310R S/N 310R0501 through 310R1004, T310R S/N 310R0501 through 310R1004:
   "Air Minimum Control Speed, 80 KIAS"

Data Pertinent to All Models
NOTE 2 (cont'd)

5. a. Model 310: "Maximum gear extended speed 130 mph. (CAS)"
   b. Models 310A, 310B, 310C, 310D, 310E, 310F:
   "Maximum gear extended speed 140 mph. (CAS)"
   c. Models 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K:
   "Maximum gear extended speed 140 mph. (CAS)"
   d. Models 310L, 310N, 310P, T310P, 310Q S/N 310Q0001 through 310Q0845,
   T310Q S/N 310Q0001 through 310Q0845: "Maximum gear extended speed 160 mph. (CAS)"
   e. Models 310Q S/N 310Q0901 through 310Q1160, T310Q S/N 310Q0901 through 310Q1160, 310R S/N 310R0001 through 310R0330, T310R S/N 310R0001 through 310R0330:
   "Maximum gear extended speed 140 knots (CAS)"
   f. Models 310R S/N 310R0501 through 310R1004, T310R S/N 310R0501 through 310R1004:
   "Maximum gear operating speed: 138 KIAS"
   g. Models 310R S/N 310R0501 through 310R1004, T310R S/N 310R0501 through 310R1004:
   "Maximum gear extended speed: 138 KIAS"

6. a. Model 310J-1:"Maximum maneuvering speed 183 mph. (CAS)"

7. a. Models 310R S/N 310R1201 through 310R2140, T310R S/N 310R1201 through 310R2140:
   (1) "This airplane must be operated as a normal category airplane in compliance with the operating limitations stated in the form of placards, markings and handbooks (Pilot's Checklist)"
   (2) "No acrobatic maneuvers, including spins, approved"
   (3) "Air minimum control speed: 80 KIAS"
   (4) "Maximum gear operating speed: 138 KIAS"
   (5) "Maximum gear extended speed: 138 KIAS"
   (6) "Maximum flap extended speed 15°: 158 KIAS"
   (7) "Maximum flap extended speed 35°: 139 KIAS"
   (8) "Maximum maneuvering speed: 148 KIAS"
   (9) "This airplane is approved for day/night VFR conditions. It's approved for day/night IFR conditions and flights into icing conditions if the proper optional equipment is installed and operational."

IDLE POWER STALL SPEEDS (KIAS)

	Angle of Bank			
Configuration	0°	20°	40°	60°
Gear Up - Flaps Up	79	82	91	112
Gear Down - Flaps Down 15°	77	79	88	109
Gear Down - Flaps Down 35°	72	74	82	101

7. <u>On the Instrument Panel</u>
   a. "Open defrost or cabin air during heater operation."
   b. "T & B Test" "Heater Overheat"

   c. Model 310:

"Flap Deflection	Max. Speed (TIAS) MPH
15°	160
15° - 45°	130"

   d. Models 310A, 310B, 310C, 310D, 310E, 310F, 310G, 310H, E310H:

"Flap Deflection	Max. Speed (TIAS) MPH*
15°	160
15° - 45°	140"

   *(Substitute 'CAS' for 'TIAS' on Models 310G, 310H, E310H)

Data Pertinent to All Models
NOTE 2 (cont'd)

e. Models 310I, 310J, 310J-1, E310J:

"Flap Deflection**	Max. Speed (CAS) MPH
15°	160
15° - 35°	140"

**(as noted on position indicator)

f. Model 310K:

"Flap Deflection**	Max. Speed (CAS) MPH
15°	180
15° - 35°	140"

**(as noted on position indicator)

g. Models 310L, 310N, 310P, T310P, 310Q, S/N 310Q0001 through 310Q0845, T310Q, S/N 310Q0001 through 310Q0845:

"Flap Deflection**	Max. Speed (CAS) MPH
15°	180
15° - 35°	160"

**(as noted on position indicator)

h. Models 310Q, S/N 310Q0901 through 310Q1160; T310Q, S/N 310Q0901 through 310Q1160, 310R, S/N 310R0001 through 310R0330; T310R, S/N 310R0001 through 310R0330:

"Flap Deflection**	Max. Speed (CAS) Knots
15°	160
15° - 35°	140"

**(as noted on position indicator)

i. Models 310R, S/N 310R0501 through 310R2140; T310R, S/N 310R0501 through 310R2140:

"Flap Deflection**	Max. Flap Ext. Speed
15°	158 KIAS
15° - 35°	138 KIAS"

**(as noted on position indicator)

j. Models 310L, 310N, 310P, T310P, 310Q, T310Q, 310R/T310R, S/N 310R0001 through 310R0735: If nacelle fuel transfer tanks are installed:
"20 gal. - empty - LH - ON - RH - OFF – fuel transfer - 20 gal

k. Models 310I, 310J, 310K, 310L, 310N, 310P, 310Q: If AK 310-212 is installed:
"Aircraft Gross Weight limited to 4990 lb. See Owner's Manual Supplement No. D919-13."

l. Model 310R: If AK 310-233 is installed: "Aircraft Gross Weight limited to 4990 lbs. See Owner's Manual Supplement No. D1524-13."

m. Models T310P, T310Q: If AK 310-220 is installed: "Aircraft Gross Weight limited to 4990 lbs. See Owner's Manual Supplement No. D1502-13."

n. Model T310R: If AK 310-234 is installed: "Aircraft Gross Weight limited to 4990 lbs. See Owner's Manual Supplement No. D1525-13."

o. Models 310Q, T310Q S/N 310Q0601 through 310Q1160; 310R, T310R: If Oxygen System is installed: "Use Blue Oxygen connector only."

p. Models 310R/T310R, S/N 310R0501 through 310R2140: If fuel low level warning is installed: "L - Low Fuel - R"

Data Pertinent to All Models
NOTE 2 (cont'd)

q. Models 310R/T310R S/N 310R0801 through 310R1004:
If propeller synchrophaser is installed:
(1) Near phasing knob and switch: "PHASING-SYNC-OFF" "MUST BE OFF FOR TAKEOFF, LDG AND ONE ENG. OPER."
(2) Near phasing light: "PROP-SYNC"

r. Models 310R/T310R S/N 310R1201 through 310R2140:
If propeller synchrophaser is installed:
(1) Near phasing knob and switch: "PHASING - OFF" "MUST BE OFF FOR TAKEOFF, LDG AND ONE ENGINE OPER"
(2) Near phasing light: "PROP - SYNC"

8. On Foul Weather Window
a. Models 310, 310A, 310B, 310C, 310D, 310E, 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J: "Do not open above 130 mph."

9. On Emergency Exits
a. On left emergency exit
(1) Models 310, 310A, 310B, 310C, 310D, 310E, 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P/T310P, 310Q/T310Q, S/N 310Q0001 through 310Q0291: "Emergency Exit - pull ring - push window out."
(2) Models 310Q/T310Q, S/N 310Q0401 through 310Q1160; 310R/T310R, S/N 310R0001 through 310R0735: "Emergency Exit - Pull Handle - Push bottom of window out with sustained force."
(3) Models 310R/T310R, S/N 310R0801 through 310R2140: "EMERGENCY EXIT - PULL HANDLE - PUSH WINDOW OUT"
(4) Models 310L, S/N 310L0075 through 310L0207; 310N, 310P, T310P, 310Q, T310Q, 310R/T310R, S/N 310R0001 through 310R0735: "Emergency window release pull."

b. On right emergency exit
(1) Models 310G, S/N 310G0080 through 310G0156; 310H, E310H, 310I, 310J, 310J-1, E310J: "Emergency Exit - force to open."

10. On Control Lock
a. "Control Lock - remove before starting engines."

11. On Floor Between Front Seats
a. (1) Models 310, 310A, 310B, 310C, 310D, 310E, 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J: "Left engine 50 gal. - left on tank - right on tank - both off."
(2). Models 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R: "Left main 50 gal. - right main 50 gal. - left engine off."
(3) Models 310, 310A, 310B, 310C, 310D, 310E, 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J: "Right engine 50 gal. - left on tank - right on tank - both off."
(4) Models 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R: "Left main 50 gal. – right main 50 gal. - right engine off."

b. (1) "Set fuel selector valve to left main tank for left engine and right main tank for right engine for takeoff, landing and all normal operation."
(2) Models 310, 310A, 310B: "Takeoff and land with fuel boost pumps on. To extend gear manually, pull out crank to engage and turn clockwise to extend. Caution: push button and stow crank before operating electrically."
(3) Models 310C, 310D, 310E, 310F, 310G, 310H, E310H: "Takeoff and land with auxiliary pumps on. Use full rich mixture and auxiliary pumps when switching fuel pumps. To extend gear manually, pull out crank to engage and turn clockwise to extend. Caution: push button and stow crank before operating electrically."
(4) Models 310I, 310J, 310J-1, E310J: "Takeoff and land with auxiliary pumps on. Use full rich mixture and auxiliary pumps on 'low' when switching tanks. To extend gear manually, pull out crank to engage and turn clockwise to extend. Caution: push button and stow crank before operating electrically."

Data Pertinent to All Models
NOTE 2 (cont'd)

(5) Models 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R: "Takeoff and land with auxiliary fuel pumps on. Use full rich mixture and auxiliary fuel pumps on 'low' when switching fuel tanks. (Feel for detent.) To extend gear manually, pull out crank to engage and turn clockwise.
CAUTION:
- Gear switch should be in neutral before operating manual system.
- Push button and stow crank before operating electrically."

c. (1) Models 310L, S/N 310L0050 through 310L0207; 310N, 310P/T310P, 310R/T310R, S/N 310R0001 through 310R0330: If optional nacelle transfer tanks are installed – "Use main tank for takeoff, landing and emergency."
"Takeoff and land with auxiliary fuel pumps on."
"Use full rich mixture and auxiliary fuel pumps on 'low' when switching fuel tanks."
(a) "Operate on main tanks until fuel quantity is less than 30 gal. per tank."
(b) "Transfer wing locker fuel while operating on main tanks in straight and level flight."
(c) "Turn transfer pumps off when lights illuminate."
(d) "Use fuel cross feed system to balance main fuel quantities if one wing locker tank does not transfer or if a single wing locker tank is installed."
(e) "Switch to auxiliary tanks when main fuel is again less than 30 gal. per tank."
"To extend gear manually, pull out crank to engage and turn clockwise."
CAUTION:
- Gear switch should be in neutral before operating manual system.
- Push button and stow crank before operating electrically."

d. (1) Models 310R/T310R, S/N 310R0501 through 310R2140: If optional nacelle transfer tanks are installed - "Set fuel selector valves to left main tank for left engine and right main tank for right engine in takeoff, landing and emergency."
"Takeoff and land with auxiliary fuel pumps ON." "Use full rich mixture and auxiliary fuel pumps on 'low' when switching fuel tanks."
(a) "Operate on main tanks until fuel quantity is less than 180 lbs./tank."
(b) "Transfer wing locker fuel to main tanks in straight and level flight only."
(c) "Turn transfer pumps OFF when lights illuminate."
(d) "Operate on auxiliary tanks only when main tank is again less than 180 lbs./tank."
"To extend gear manually pull out crank to engage and turn clockwise."
CAUTION:
- Gear switch should be in neutral before operating manual system.
- Push button and stow crank before operating electrically."

12. Baggage
a. On baggage door
(1) Models 310A, 310B, 310C, 310D, 310E, 310F, 310G: "Maximum capacity – 200 lbs. See weight and balance data for detailed loading instructions."
(2) Models 310H, E310H, 310I, 310J, 310J-1, E310J): "Maximum capacity - 200 lbs. Sta. 85 - 110 - see weight and balance data for detailed loading instructions."

b. Models 310H, E310H: On upper baggage wall, Sta. 132
(1) "Maximum baggage capacity - 60 lbs. - see weight and balance data for detailed loading instructions."

c. Models 310H, 310I, 310J, 310J-1, E310J: On lower baggage wall, Sta. 132 (full width baggage area)
(1) "Maximum baggage capacity - 160 lbs. Sta. 110 - 132 - see weight and balance data for detailed loading instructions."

d. Models 310H, E310H: On lower baggage wall, Sta. 132 (alternate baggage area)
(1) "Maximum baggage capacity - 80 lbs. Sta. 110 – 132. See weight and balance data for detailed loading instructions."

Data Pertinent to All Models
NOTE 2 (cont'd)

e. Models 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R: On each wing locker door
   (1) "Maximum baggage 120 lbs."
   (2) If wing locker transfer tanks are installed, "Maximum baggage 40 lbs."

f. Models 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R: On baggage door
   (1) "Sta. 89 to Sta. 109 - 200 lbs., Sta. 109 to Sta. 132 - 160 lbs. See Weight and Balance data for detailed loading instructions."

g. Models 310R, T310R: On aft baggage retainer in nose.
   (1) "Maximum baggage XX.X. Maximum capacity 350 lbs. less XX.X optional equipment."

13. Adjacent to Fuel Strainer
    a. "Fuel strainer - drain daily. NOTE: if water is observed at the fuel strainer, fuel tank sumps and cross feed lines must be drained."

14. Omitted

15. When auxiliary tanks are installed, replace placard 2F on floor between front seats with the following placard:
    a. (1) Models 310, 310A, 310B, 310C, 310D, 310E, 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J: "Left engine - 50 gal. left main - 15 gal. left auxiliary – 50 gal. right main - left engine off."
       (2) Model 310K: "Left main 50 gal. - left auxiliary 15 gal. - right main 50 gal. - left engine off."
       (3) Models 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R: "Left main 50 gal. - left auxiliary 20 gal. - right main 50 gal. - left engine off."

    b. (1) Models 310, 310A, 310B, 310C, 310D, 310E, 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J: "Right engine - 50 gal. left main - 15 gal. right auxiliary – 50 gal. right main - right engine off."
       (2) Model 310K: "Left main 50 gal. - right auxiliary 15 gal. - right main 50 gal. - right engine off."
       (3) Models 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R: "Left main 50 gal. - right auxiliary 20 gal. - right main 50 gal. - right engine off."

    c. Models 310, 310A, 310B:
       (1) "Use main tanks for takeoff, landing and first 30 minutes of flight."
       (2) "Set fuel selector valves to left tank for left engine and right tank for right engine in takeoff, landing and all normal operation."
       (3) "Takeoff and land with fuel boost pump on."
       (4) "To extend gear manually, pull out crank to engage and turn clockwise to extend. Caution: push button and stow crank before operating electrically."

    d. Models 310C, 310D, 310E, 310F, 310G, 310H, E310H:
       (1) "Use main tanks for takeoff, landing and first 60 minutes of flight."
       (2) "Set fuel selector valves to left engine and right tank for right engine in takeoff, landing and all normal operation."
       (3) "Takeoff and land with auxiliary fuel pumps on. Use full rich mixture and auxiliary pumps when switching fuel tanks."
       (4) "To extend gear manually, pull out crank to engage and turn clockwise to extend. Caution: push button and stow crank before operating electrically."

Data Pertinent to All Models
NOTE 2 (cont'd)

e. (1) Models 310I, 310J, 310J-1, E310J: "Set fuel selector valve to left main tank for left engine and right main tank for right engine for takeoff, landing and all normal operation."
(2) Models 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R: "Set fuel selector valve to left main tank for left engine and right main tank for right engine for takeoff, landing and emergency."
(3) Models 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R: "Use main tanks for takeoff, landing and first 60 minutes of flight."
(4) Models 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R: "Takeoff and load with auxiliary fuel pumps on. Use full rich mixture and auxiliary fuel pumps on 'low' when switching fuel tanks." (Feel for detent.)
(5) Models 310I, 310J, 310J-1, E310J: "To extend gear manually, pull out crank to engage and turn clockwise. Caution: push button and stow crank before operating electrically."
(6) Models 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R: "To extend gear manually, pull out crank to engage and turn clockwise. Caution:
(a) Gear switch should be in neutral before operating manual system.
(b) Push button and stow crank before operating electrically."

f. Models 310Q and T310Q S/N 310Q0601 through 310Q1160, 310R, T310R (63 gal. auxiliary fuel system):
(1) "Left main 50 gal. - left auxiliary 31.5 gal. - right main 50 gal. - left engine off."
(2) "Right main 50 gal. - right auxiliary 31.5 gal. - left main 50 gal. - right engine off."
(3) "Set fuel selector valve to left main tank for left engine and right main tank for right engine in takeoff, landing and emergency."
(4) "Use main tanks for takeoff, landing and first 90 minutes of flight."
(5) "Takeoff and land with auxiliary fuel pumps on. Use full rich mixture on 'low' when switching fuel tanks. (Feel for detent.)"
(6) "To extend gear manually, pull out crank to engage and turn clockwise. Caution:
(a) Gear switch should be in neutral before operating manual system.
(b) Push button and stow crank before operating electrically."

16. <u>On engine control pedestal:</u>
a. Models 310R/T310R, S/N 310R0801 through 310R2140: If nacelle fuel transfer tanks are installed - "FUEL TRANSFER -20 GAL - L - R - L ON R - EMPTY - OFF"

NOTE 3. The following information shall be provided in the form of markings, placards or manuals (Pilot's Check List):

1. Maximum takeoff flap setting 15°.
2. Maximum positive maneuvering load factor +3.8g, flaps up; +2.0g, flaps extended, except for Model 310J-1 which has a load factor of +4.8g, flaps up.
3. Models 310, 310A, 310B, 310C, 310D, 310E, 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P: Maximum loss of altitude during normal stall recovery is 400 ft. and maximum pitch in power-off stall is 45°.
4. Loading schedule for the Model 310 airplane.
5. Maximum loss of altitude during normal stall recovery is 500 ft. for Model 310Q and 300 ft. for Model T310Q.
6. Maximum loss of altitude during normal stall recovery is 300 ft. for Model 310R and T310R.

Data Pertinent to All Models

NOTE 4. Special Accessory Kits for Foreign Certification

1. Models 310I, 310J, 310K, 310L, 310N, 310P, 310Q: Aircraft with Accessory Kit AK 310-212 installed are restricted to operations at gross weights of 4990 lbs. or less. The model designation will be altered by adding the prefix letter "E."
2. Model 310R: Aircraft with Accessory Kit AK 310-233 installed are restricted to operations at gross weights of 4990 lbs. or less. The model designation will be altered by adding the prefix letter "E."
3. Models T310P, T310Q: Aircraft with Accessory Kit AK 310-220 installed are restricted to operations at gross weights of 4990 lbs. or less. The model designation will be altered by adding the prefix letter "E."
4. Model T310R: Aircraft with Accessory Kit AK 310-234 installed are restricted to operations at gross weights of 4990 lbs. or less. The model designation will be altered by adding the prefix letter "E."

NOTE 5. McCauley Propellers with 3AF32C87 or 3AF32C504 hubs may be interchanged in any combination.

In addition to the placards specified above, the prescribed operating limitations indicated by an asterisk (*) under Sections I through XXIII of this data sheet must also be displayed by permanent markings.

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