DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A-790
Revision 37
Textron Aviation Inc.
190
(LC-126A,B,C) 195
195A
195B
July 29, 2015

TYPE CERTIFICATE DATA SHEET NO. A-790

This data sheet which is part of Type Certificate No. A-790 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, Kansas 67215
Type Certificate Holder Record	Cessna Aircraft Company transferred to Textron Aviation Inc. on July 29, 2015

I. Model 195 (LC-126A,B,C), 5 PCLM (Normal Category), Approved June 12, 1947; 2 PCLM (Utility Category), Approved November 21, 1947; 5 PCSM (Normal Category), Approved May 3, 1948.
(The LC-126C version incorporates relocated battery, aileron control system, and large baggage door to facilitate dual stretchers, reference Items 302(b), 605(c) and 609. Eligible landplane, seaplane and skiplane).

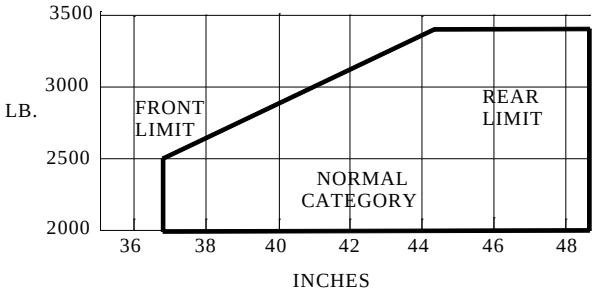
Engine	Jacobs R755-A2 with magneto-battery combination ignition system (See items 106 and 109 for optional engines)		
Fuel	80 min. octane aviation gasoline		
Engine Limits	For all operations, 2200 r.p.m. (300 hp.)		
Airspeed Limits	Landplane:	Maneuvering	125 m.p.h. (109 knots) True Ind.(Normal Category) 130 m.p.h. (113 knots) True Ind.(Utility Category)
		Max. structural cruising	178 m.p.h. (155 knots)True Ind.
		Never exceed	200 m.p.h. (174 knots)True Ind.
		Flaps extended	130 m.p.h. (113 knots)True Ind. *(See Note 3 for item 610)*
	Seaplane:	Maneuvering	125 m.p.h. (109 knots)True Ind.
		Max. structural cruising	165 m.p.h. (144 knots)True Ind.
		Never exceed	200 m.p.h. (174 knots)True Ind.
		Flaps extended	130 m.p.h. (113 knots)True Ind.

I. Model 195 (cont'd)

C.G. range

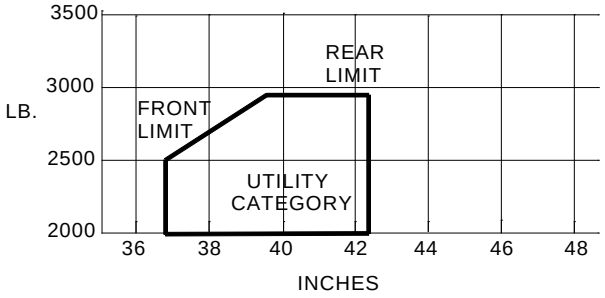
Landplane: (See NOTE 3 for items 610 and 611)

(Normal Category) (+44.5) to (+48.3) at 3350 lb.
(+36.9) to (+48.3) at 2500 lb. or less
Straight line variation between points given



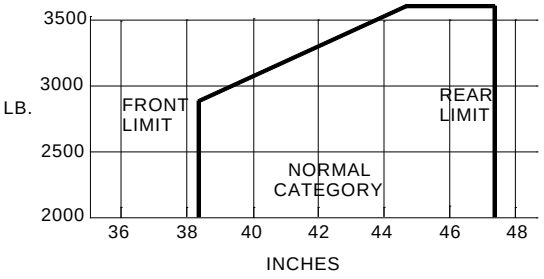
(Utility Category) (+39.1) to (+42.2) at 2950 lb.
(+36.9) to (+42.2) at 2500 lb. or less

Straight line variation between points given



Seaplane:

(Normal Category)
(+44.5) to (+47.4) at 3600 lb.
(+38.2) to (+47.4) at 2850 lb. or less
Straight line variation between points given



Empty Wt. C.G. Range: Not available

Maximum Weight:

Landplane:	(Normal Category)	3350 lb.
	(Utility Category)	2950 lb.
Seaplane:	(Normal Category)	3600 lb.

No. of Seats: 5 (two at +36, three at +69.5)

Maximum Baggage: 220 lb. (+92) (Model 195 Standard). No baggage for Utility Category.
(See item 606 for other baggage arrangements)

I. Model 195 (cont'd)

Fuel Capacity: 81 gal. total (two 40.5 gal. tanks in wings at (+63). (38 gal. usable fuel in each tank). *(See NOTE 1 for unusable fuel and item 108 for optional fuel tanks).*

Oil Capacity: 5 gal. (+4.5*) (See NOTE 1 for data on unusable oil)*

Control Surface Movements:

Wing flaps			Down	45°
Aileron tab	Fixed			
Ailerons	Up	25°	Down	25°
Elevator tab *(See NOTE 3 for item 611)*	Up	12.5°	Down	31°
Elevators	Up	28°	Down	17°
Rudder	Right	21°	Left	21°

Serial Nos. Eligible: 7004 through 7999
16000 through 16183

Prior to civil certification of LC-126A,B and C aircraft, which have been operated by the Military Services, must be modified in accordance with Cessna Dwg. 0400115. This drawing and FAA approved airplane flight manual may be obtained thru Cessna's dealer organization. The dealer should also have a file of Cessna Service Letters which should be reviewed for applicability.

Required Equipment:

Landplane: Items 1(a) and (b), 102(a), 103, 104, 201, 202, 204, 301, 302(a), 303 (when used in night operation if flap position indicator not installed), and 403(a) or (b).

Skiplane: Items 1(a) and (b), 102(a), 103, 104, 204, 208, 301, 302(a), 303 (when used in night operation if flap position indicator not installed), and 403(a).

Seaplane: Items 1(a) and (b), 102(a), 103, 104, 209, 301, 302, 302(a), 303 (when used in night operation if flap position indicator not installed), 403(a) and 602.

II. Model 190 (5 PCLM (Normal Category)), Approved July 1, 1947; 2 PCLM (Utility Category), Approved November 21, 1947; 5 PCSM (Normal Category), Approved May 3, 1948. (Same as Model 195 except for engine installation)

Engine: Continental W670-23. Eligible with either dual magnetos or magneto-battery combination engine ignition system.

Fuel: 80 min. octane aviation gasoline

Engine Limits: For all operations, 2200 r.p.m. (240 hp.)

Airspeed Limits:

Landplane:	Maneuvering	125 m.p.h.(109 knots) True Ind. (Normal Category)
		130 m.p.h.(113 knots) True Ind. (Utility Category)
	Max.structural cruising	178 m.p.h.(155 knots) True Ind.
	Never exceed	200 m.p.h.(174 knots) True Ind.
	Flaps extended *(See NOTE 3 for item 610)*	130 m.p.h.(113 knots) True Ind.
Seaplane:	Maneuvering	125 m.p.h.(109 knots)True Ind.
	Max.structural cruising	165 m.p.h.(144 knots)True Ind.
	Never exceed	200 m.p.h.(174 knots)True Ind.
	Flaps extended	130 m.p.h.(113 knots)True Ind.

II. Model 190 (cont'd)

C.G. Range

All limits same as Model 195 - see figures under Section I

Landplane: *(See NOTE 3 for items 610 and 611)*

(Normal Category)	(+44.5) to (+48.3) at 3350 lb.
	(+36.9) to (+48.3) at 2500 lb. or less
(Utility Category)	(+39.1) to (+42.2) at 2950 lb.
	(+36.9) to (+42.2) at 2500 lb. or less

Seaplane: (Normal Category) (+44.5) to (+47.4) at 3600 lb.
(+38.2) to (+47.4) at 2850 lb. or less

Straight line variation between points given.

Empty Wt. C.G. Range

Not available

Maximum Weight

Landplane: (Normal Category) 3350 lb.
(Utility Category) 2950 lb.
Seaplane (Normal Category) 3600 lb.

No. of Seats

5 (two at +36, three at +69.5)

Maximum Baggage

220 lb. (+92). No baggage for Utility Category. See Item 606 for auxiliary baggage compartment

Fuel Capacity

81 gal. total (two 40.5 gal. tanks in wings at (+63).
(Usable fuel in each tank: 38 gal. with item 102(b); 37.5 gal. with gravity fuel system).
(See NOTE 1 for unusable fuel, NOTE 2 for placard with gravity fuel system, and Item 108 for optional fuel tanks).

Oil Capacity

5 gal. (+4.5) *See NOTE 1 for data on unusable oil.*

Control Surface Movements

Wing flaps			Down	45°
Aileron tab	Fixed			
Ailerons	Up	25°	Down	25°
Elevator tab *(See NOTE 3 for item 611)*	Up	12.5°	Down	31°
Elevators	Up	28°	Down	17°
Rudder	Right	21°	Left	21°

Serial Nos. Eligible

7004 through 7999
16000 through 16183

Required Equipment

In addition to the pertinent required basic equipment specified in CAR 3, the following items of equipment must be installed:

Landplane: Items 1(a) and (c), 102(b), 103, 201, 202, 204, 301, 302(a), 303 (when used in night operation if flap position indicator not installed), and 403(a) or (b).

Skiplane: Items 1(a) and (c), 102(b), 103, 204, 208, 301, 302(a), 303 (when used in night operation if flap position indicator not installed), 403(a).

Seaplane: Items 1(a) and (c), 102(b), 103, 209, 301, 302(a), 303 (when used in night operation if flap position indicator not installed), 403(a) and 602.

III. Model 195A; 5 PCLM (Normal Category), Approved January 6, 1950; 2 PCLM (Utility Category), Approved January 6, 1950; 5 PCSM (Normal Category), Approved August 18, 1950. (Same as Model 195 except for engine.)

Engine

Jacobs L-4MB (R-755-9) with magneto-battery combination ignition system.

Fuel

73 min. octane aviation gasoline

Engine Limits

Maximum continuous, 2000 r.p.m. (225 hp.)
Takeoff (one minute), 2200 r.p.m. (245 hp.)

III. Model 195A (cont'd)

Airspeed Limits	Landplane:	Maneuvering	125 m.p.h.(109 knots)True Ind. (Normal Category) 130 m.p.h.(113 knots)True Ind. (Utility Category)
		Max. structural cruising	178 m.p.h.(155 knots)True Ind.
		Never exceed	200 m.p.h.(174 knots)True Ind.
		Flaps extended *(See Note 3 for item 610.)*	130 m.p.h.(113 knots)True Ind.
	Seaplane:	Maneuvering	125 m.p.h.(109 knots)True Ind.
		Max. structural cruising	165 m.p.h.(144 knots)True Ind.
		Never exceed	200 m.p.h.(174 knots)True Ind.
		Flaps extended	130 m.p.h.(113 knots)True Ind.

C.G. Range

All limits same as Model 195 - See figures under Section I.

Landplane:	*(See NOTE 3 for items 610 and 611)*	
	(Normal Category)	(+44.5) to (+48.3) at 3350 lb. (+36.9) to (+48.3) at 2500 lb. or less
	(Utility Category)	(+39.1) to (+42.2) at 2950 lb. (+36.9) to (+42.2) at 2500 lb. or less
Seaplane:	(Normal Category)	(+44.5) to (+47.4) at 3600 lb. (+38.2) to (+47.4) at 2850 lb. or less

Straight line variation between points given

Empty Wt. C.G. Range: Not available

Maximum Weight

Landplane:	(Normal Category)	3350 lb.
	(Utility Category)	2950 lb.
Seaplane:	(Normal Category)	3600 lb.

No. of Seats: 5 (two at +36, three at +69.5)

Maximum Baggage: 220 lb. (+92). No baggage for Utility Category. See item 606 for auxiliary baggage compartment.

Fuel Capacity: 81 gal. total (two 40.5 gal. tanks in wings at (+63)
(38 gal. usable fuel in each tank) (See NOTE 1 for unusable fuel)

Oil Capacity: 5 gal. (+4.5) (See NOTE 1 for data on unusable fuel)

Control Surface Movements

Wing flaps			Down	45°
Aileron tab	Fixed			
Ailerons	Up	25°	Down	25°
Elevator tab *(See NOTE 3 for item 611)*	Up	12.5°	Down	31°
Elevators	Up	28°	Down	17°
Rudder	Right	21°	Left	21°

Serial Nos. Eligible
7004 through 7999
16000 through 16183

Required Equipment

In addition to the pertinent required basic equipment specified in CAR 3, the following items of equipment must be installed:

Landplane:	Items 1(a) and (b), 102(a), 103, 104, 201, 202, 204, 301, 302(a), 303 (when used in night operation if flap position indicator not installed), and 403(e).
Skiplane:	Items 1(a) and (b), 102(a), 103, 104, 204, 208, 301, 302(a), 303 (when used in night operation if flap position indicator not installed), and 403(a).
Seaplane:	Items 1(a) and (b), 102(a), 103, 104, 209, 301, 302(a), 303 (when used in night operation if flap position indicator not installed), 403(f) and 602.

IV. Model 195B, 5 PCLM (Normal Category), Approved March 31, 1952; 2 PCLM (Utility Category), March 31, 1952; 5 PCSM (Normal Category), Approved March 31, 1952. (Same as Model 195 except for engine.)

Engine	Jacobs R-755B2 with magneto-battery combination ignition system		
Fuel	80 minimum octane aviation gasoline		
Engine Limits	For all operations, 2200 r.p.m. (275 hp.)		
Airspeed Limits	Landplane:	Maneuvering	125 m.p.h.(109 knots) True Ind. (Normal Category) 130 m.p.h.(113 knots) True Ind. (Utility Category)
		Max. structural cruising	178 m.p.h.(155 knots) True Ind.
		Never exceed	200 m.p.h.(174 knots) True Ind.
		Flaps extended (See Note 3 for item 610)	130 m.p.h.(113 knots) True Ind.
	Seaplane:	Maneuvering	125 m.p.h.(109 knots) True Ind.
		Max. structural cruising	165 m.p.h.(144 knots) True Ind.
		Never exceed	200 m.p.h.(174 knots) True Ind.
		Flaps extended	130 m.p.h.(113 knots) True Ind.
C.G. Range	All limits same as Model 195 - See figures under Section I.		
	Landplane:	*(See NOTE 3 for items 610 and 611)*	
		(Normal Category)	(+44.5) to (+48.3) at 3350 lb. (+36.9) to (+48.3) at 2500 lb. or less
		(Utility Category)	(+39.1) to (+42.2) at 2950 lb. (+36.9) to (+42.2) at 2500 lb. or less
	Seaplane:	(Normal Category)	(+44.5) to (+47.4) at 3600 lb. (+38.2) to (+47.4) at 2850 lb. or less
	Straight line variation between points given		
Empty Wt. C.G. Range	Not available		
Maximum Weight	Landplane:	(Normal Category)	3350 lb.
		(Utility Category)	2950 lb.
	Seaplane:	(Normal Category)	3600 lb.
No. of Seats	5 (two at +36, three at +69.5)		
Maximum Baggage	220 lb. (+92). No baggage for Utility Category. See item 606 for auxiliary baggage compartment.		
Fuel Capacity	81 gal. total (two 40.5 gal. tanks in wings at +63) (38 gal. usable fuel in each tank) (See NOTE 1 for unusable fuel)		
Oil Capacity	5 gal. (+4.5) (See NOTE 1 for data on unusable oil)		

Control Surface Movements					
Wing flaps				Down	45°
Aileron tab	Fixed				
Ailerons	Up	25°	Down	25°	
Elevator tab *(See NOTE 3 for item 611)*	Up	12.5°	Down	31°	
Elevators	Up	28°	Down	17°	
Rudder	Right	21°	Left	21°	

Serial Nos. Eligible	7004 through 7999 16000 through 16183

IV. Model 195B (cont'd)

Required Equipment	In addition to the pertinent required basic equipment specified in CAR 3, the following items of equipment must be installed: Landplane: Items 1(a) and (b), 102(a), 103, 104, 201, 202, 204, 301, 302(a), 303 (when used in night operation if flap position indicator not installed), and 403(h). Skiplane: Items 1(a) and (b), 102(a), 103, 104, 204, 208, 301, 302(a), 303 (when used in night operation if flap position indicator not installed), and 403(h). Seaplane: Items 1(a) and (b), 102(a), 103, 104, 209, 301, 302(a), 303 (when used in night operation if flap position indicator not installed), 403(i) and 602.

Specifications Pertinent To All Models

Datum	Front face of firewall
Leveling Means	Top of fuselage immediately aft of wing trailing edge

Certification Basis:
CAR 3 dated December 15, 1946.
Model 195B certificated under delegation option provisions of Part 410 of the Regulations of the Administrator.
Type Certificate No. A-790 issued June 12, 1947.

Production Basis:
Production Certificate No. 4.

Export Eligibility
Landplane, seaplane and skiplane eligible for export to all countries subject to the provisions of FS P8130-1.

Equipment:
A plus (+) or minus (-) sign preceding the weight of an item indicates net weight change when that item is installed.

Approval for the installation of all items of equipment listed herein has been obtained by the aircraft manufacturer except those items preceded by an asterisk (*). The asterisk denotes that approval has been obtained by other than the aircraft manufacturer. An item marked with an asterisk may not have been manufactured under an FAA monitored or approved quality control system, and therefore attention should be paid to workmanship and conformity with pertinent data called for in this specification.

An item preceded by two asterisks (**) indicates approval under Federal Aviation Regulations Part 21.

Specifications Pertinent To All Models (cont'd)

Propellers and Propeller Accessories (Excepting Deicing equipment)

			195	190	195A	195B
1.	Hamilton Standard constant speed					
	(a) Hub 2B20, blades 6135-15 or 6135-16 Pitch settings at 42 in. sta. ** Model 190, 195A & 195B: Low 9° - 12°, high 24° - 27° ** Model 195: Low 10.3° - 12°, high 25.3° - 27° (Propeller to be indexed with blades in line with crankthrow - 0° or 180° position) Diameter: (Not over 93 in.,not under 91-1/8 in.	104 lb.	(-35)	(-32)	(-35)	(-35)
	(b) Governor, Hamilton Standard - 1A4	8 lb.	(-5)	—	(-5)	(-5)
	(c) Governor, Hamilton Standard - 1M12 or 4M12	8 lb.	—	(-25)	—	—
	*(d) Montgomery spinner for Ham.Std.2B20 propeller (Special Ham.Std.bolts,P/N70234 required for inst. this item)	8 lb.	(-35)	(-32)	(-35)	(-35)
	**(e) Spinner (Cessna Dwg. 0352171)	+4.5 lb.	(-35)	(-32)	(-35)	(-35)
	*(f) Spinner - Mfgr. Aircraft Access. Inc., 2630 So.Wabash Ave.,Chicago,Ill.(Dwg. Nos. 77596-1,-1A, -2,-2A & -3). Special Ham. Std.bolts P/N 70234 required for inst. this item	8 lb.	(-35)	(-32)	(-35)	(-35)

Engine and Engine Accessories - Fuel and Oil System

101	Starter (Eclipse 397-13)	20 lb.	(-2)	(-6)	(-2)	(-2)
102.	Fuel pumps					
	(a) Engine-driven(Romec RD-4140 or Pesco 2F-R400-BYLA remarked and reworked by Cessna dwg.0350284)	2 lb.	(-5)	—	(-5)	(-5)
	(b) Engine-driven(Candler Hill Titan Model 200, H2E3-16) (not required with gravity fuel system)	2 lb.	—	(-4)	—	—
103.	Carburetor air filter		X	X	X	X
104.	Oil radiator (UAP Model U-3140C)	9 lb.	(-18)	—	(-18)	(-18)
105.	Vacuum pumps					
	(a) Engine-driven (Pesco 3P-194-E)	5 lb.	(-5)	—	(- 5)	(- 5)
	(b) Engine-driven (Romec P-207)(Elig. with gravity fuel system)	4 lb.	—	(- 4)	—	—
*106.	Jacobs L-4MB (R-755-9) Engines Use actual wt. Eligible on 195 landplane with following limits: Fuel 73 min.octane aviation gasoline Engine limits Takeoff (one min.), 2200 r.p.m. (245 hp.) For all other operations, 2000 r.p.m. (225 hp.) When this engine is installed, revised engine baffles, relocated oil cooler, modified engine mount bolts, relocated engine breather and oil separator vent lines, remarked power plant instruments, and FAA Approved Airplane Flight Manual Supplement dated October 21, 1948, as approved for the Purdue Aeronautics Corp., Lafayette, Ind., must be incorporated.	—	—	—		

			195	190	195A	195B
107.	Winterization equipment (Cessna dwg. 0350285 & 0350286 for Model 195; Cessna dwg. 0350285 & 0350302 for Model 190). Item 403(c) required when this equipment installed.	2 lb.	(-30)	(-27)	(-30)	(-30)
108.	Two 50.5 gal. fuel tanks in wings installed per Cessna dwg. 0320001 (replaces two 40.5 gal. tanks). With this item installed, fuel capacity is 101 gal. total at (+63)(46 gal.) usable in each tank). Item 403(d) required when these tanks are installed. (See NOTE 1 for weight of unusable fuel)	+2 lb.	(+63)	(+63)	—	(+63)

Specifications Pertinent To All Models (cont'd)

Engine and Engine Accessories - Fuel and Oil System (cont'd)

*109. Jacobs L-6MB engine — Use actual weight
Eligible on 195 landplane with the following limits:
Fuel 80 min.octane aviation gasoline
Engine limits Takeoff (one min.)
330 hp. 2200 r.p.m. 26 in.Hg.M.P.
Max. continuous
300 hp. 2100 r.p.m. 24.5 in.Hg M.P.at S.L.
200 hp. 2100 r.p.m. 23.5 in.Hg M.P. at 3700'
With propeller (item 1),Ham.Std.2B20/6135A-15
Pitch settings at 42" sta.: Low -13°, high 28°
Installation of this item to be accomplished in accordance with data approved for Scott Aero Services, Inc., 4100 Donald Douglas Drive, Long Beach, Calif. 90808.
Item 403(g) required when this item installed.

Landing Gear and Floats

201.	Two main wheel-brake assemblies, Type III						
	(a) Goodyear Model L610HBM (6.50-10) Wheel Assembly 530858-M Brake Assembly 511613-M	29 lb.	(+25)	(+25)	(+25)	(+25)
	(b) Goodyear Model CL8HBM (6.50-8 castering) Wheel assembly 9530505 L.H. 9530506 R.H. Brake assembly 9530503 L.H. 9530504 R.H. Installed in accordance with Cessna dwg. 0341150	29 lb.	(+25)	(+25)	(+25)	(+25)
202.	(a) Two main wheel 4-ply rating tires, 6.50-10, Type III with regular tubes	28 lb.	(+25)	(+25)	(+25)	(+25)
	(b) Two main wheel 6-ply rating tires, 7.50-10, Type III with regular tubes	38 lb.	(+25)	(+25)	(+25)	(+25)
	(c) Two main wheel 6-ply rating tires, 7.00-8, Type III with regular tubes	31 lb.	(+25)	(+25)	(+25)	(+25)
204.	Tail wheel assembly, General Model 204-A-702M with Type I tire	8 lb.	(+272)	(+272)	(+272)	(+272)
208.	Two skis. Skiplane elig. only in normal category. (Either a Cessna Skiplane Flight Manual dated February 10, 1949 (190), November 14, 1947 (195) or the following required as supplement to the Airplane Flight Manual with any of these skis installed: "PERFORMANCE WITH SKIS INSTALLED Takeoff and Landing: Under the most favorable conditions of smooth packed snow at temperatures approximately 30°F. skiplane takeoff distance is approximately 10 percent greater than the distance shown for the landplane. In applying the performance data, caution should be exercised in that lower temperatures or other snow conditions will increase the ski friction and hence increase the takeoff run and either increase or decrease the landing run. Climb Performance: The skiplane rate of climb is approximately 50 feet per minute less than the landplane."	8 lb.	(+272)	(+272)	(+272)	(+272)
	(a) Federal A-3500 according to Cessna dwg. 0340001 or Federal Inst. dwg. 11R178	Use actual wt. change				
	(b) Federal A-3500A Federal Inst. dwg. 11R178	Use actual wt. change				
	(c) Federal AWB-3500 Main and AWT-3500 Tail Wheel Skis, in accordance with Federal Aircraft Works dwg. 11R692 and 11R874 The following placard is required with this installation: "Do Not Extend or Retract Skis while in motion on the Ground."	Use actual wt. change				

Specifications Pertinent To All Models (cont'd)

Landing Gear and Floats (cont'd)

			195	190	195A	195B
209.	Float installation, two Edo 38-3430 per Cessna dwg. 0341102	+272 lb.	(+43)	(+43)	(+43)	(+43)
210.	Two wheel streamlines per Cessna dwg. 0341143	10 lb.	(+25)	(+25)	(+25)	(+25)
211.	Tail ski, Federal AT-3500 per Cessna dwg. 0342102	8 lb.	(+272)	(+272)	(+272)	(+272)
212.	Two 3/4 in. tapered spring type landing gear per Cessna dwg. 0341109	-25 lb.	(+25)	(+25)	(+25)	(+25)
*213.	Two "no drag" wheel fenders per Liquid Tool Co., Box 299, Morrow, Ohio, dwg. 105	8 lb.	(+26)	(+26)	(+26)	(+26)

Electrical Equipment

301.	Generator (Eclipse 308-1A or Eclipse 309-8A)	22 lb.	(- 2)	(- 2)	(- 2)	(- 2)
302.	Battery - 12 v. 24 a. hr.					
	(a) Installation in accordance with Cessna dwg. 0310005	36 lb.	(+108)	(+108)	(+108)	(+108)
	(b) Installation in accordance with Cessna dwg. 0311063	36 lb.	(+ 86)	(+ 86)	(+ 86)	(+86)
303.	Landing lights (Grimes G-3800)	5 lb.ea.	(+56)	(+ 56)	(+56)	(+56)
*304.	Generator (Eclipse 309A-8A, 50 a.	22 lb.	(-2)	(-2)	(-2)	(-2)
*305.	Voltage regulator					
	(a) Delco-Remy 1118340	Neglect wt.				
	(b) Delco-Remy 1118713 with shock mounting kit 1910966					
*306.	Generator (Eclipse 30E01-1) 50 a. 24 lb.	—	(-2)	—	—	
*307.	Voltage regulator, Eclipse 1337-17	Neglect wt.				
*308.	Generator (Eclipse 790-1-B modified per Duryee Aero. Ser. dwg. DAS 47) 50 a. (Item 305 required)	22 lb.	(-2)	—	(-2)	(-2)
*309.	Voltage regulator, Delco Remy 1118884	Neglect wt.				
*310.	Generator (Eclipse 790-1-B modified per Garwin dwg. G50A and installed according to Garwin instructions dated July 25, 1955), 50 a. (Item 305 or 309 required).	22 lb.	(-2)	—	(-2)	(-2)

Interior Equipment

401.	Cabin heater (Exhaust manifold muff type)	3 lb.	(0)	(0)	(0)	(0)
402.	Omitted					
403.	(a) FAA Approved Airplane Flight Manual and pertinent revisions applicable to the particular model and serial number					
	(b) FAA Approved Airplane Flight Manual dated September 14, 1949 (pertinent to decrease in landing distance)					
	(c) FAA Approved Supplement No. 1 to Airplane Flight Manual (pertinent to winterization equipment, Item 107)					
	(d) FAA Approved Supplement No. 2 to Airplane Flight Manual (pertinent to 50.5 gal. fuel tanks, item 108)					
	(e) FAA Approved Airplane Flight Manual dated December 27, 1949 (Model 195A Landplane)					
	(f) FAA Approved Airplane Flight Manual dated August 18, 1950 (Model 195A Seaplane)					
	*(g) FAA Approved Airplane Flight Manual dated March 15, 1951 (Model 195 Landplane with item 109 installed)					
	**(h) DOA Approved Airplane Flight Manual dated March 31, 1952 (Model 195B Landplane and Skiplane)					
	**(I) DOA Approved Airplane Flight Manual dated March 31, 1952 (Model 195B Seaplane only)					
	**(j) DOA Approved Airplane Flight Manual dated April 22, 1953 (Model 190 Landplane and Skiplane with items 610 and 611 installed)					
	**(k) DOA Approved Flight Manual dated April 22, 1953 (Model 195 Landplane and Skiplane with items 610 and 611 installed)					
	**(l) DOA Approved Flight Manual dated April 22, 1953 (Model 195A Landplane and Skiplane with items 610 and 611 installed)					
	**(m) DOA Approved Flight Manual dated April 22, 1953 (Model 195B Landplane and Skiplane with items 610 and 611 installed)					

Specifications Pertinent To All Models (cont'd)

Interior Equipment (cont'd)

**(n) DOA Approved Flight Manual dated June 11, 1954 (Model 195 Seaplane with items 610 and 611 installed)

**(o) DOA Approved Flight Manual dated June 11, 1954 (Model 195B Seaplane with items 610 and 611 installed)

			195	190	195A	195B
404.	Cabin heater installation (gasoline combustion type) (a) Stewart Warner Model 977-B-1 (b) Stewart Warner 979-B-1	17 lb.	(+70)	(+70)	(+70)	(+70)
405.	Blind flying kit, Cessna dwg. 0300006	4 lb.	(+25)	(+25)	(+25)	(+25)

			190	195	195A	195B
*406.	(a) Lear Model L-2B(1102B)autopilot installation according to Lear dwgs. 43733, 43654 and 43674. Items 304 and 305 required with this installation. The following placard should be installed in a conspicuous place near the auto-pilot controller: "Do not use autopilot below 500 feet above terrain except during approach when autopilot is not to be used below 100 feet above terrain. Minimum altitudes do not override any higher minimum operational altitudes." Servo stall forces measured at the pilot's controls on the ground: Rudder 20 to 25 lb.; aileron 12 to 15 lb.; elevator 8 to 12 lb. FAA Approved Lear Flight Manual Supplement dated May 9, 1952 or Manual Supplement dated December 1, 1954, required. With Manual Supplement dated December 1, 1954, the above placard is not required	40 lb.	(+111)	(+111)	(+111)	(+111)
	(b) Lear Model 1404A altitude controller optional	2 lb.	(+84.5)	(+84.5)	(+84.5)	(+84.5)

Miscellaneous (not listed above)

601.	Flares (3 International 1 1/2 min. Mark I, Model I)	18 lb.	(+108)	(+108)	(+108)	(+108)
602.	Auxiliary seaplane fin per Cessna dwg. 0331135 Fin eligible for installation on landplane in Normal Category only. See NOTE 2 for required placard	8 lb.	(+264)	(+264)	(+264)	(+264)
603.	Venturi installation per Cessna dwg. 0310007	2 lb.	(+ 22)	(+ 22)	(+ 22)	(+ 22)
604.	Provision for Fairchild Camera. Maximum allowable weight for the camera and attachments is 92 lb. Camera operator's stool to be placarded "Do not use for takeoff or landing", making airplane two place when installed. Installation in accordance with: (a) Cessna dwg. 0310010, Station (+58) or (b) Cessna dwg. 0310016, Station (+90) No provision for baggage with item (b) installed	Use actual wt. change				
605.	Gran portable stretcher installation					
	(a) Provision for single stretcher per Cessna dwg. 0300108		(+95)	(+95)	(+95)	(+95)
	(b) Single stretcher (stored location) The following placard must be displayed on the baggage door immediately above or below the baggage placard: "Baggage 158 lb. Maximum with stretcher installed." When in use the C.G. of the stretcher and occupant is at (+79)	17 lb.	(+92)	(+92)	(+92)	(+92)

Specifications Pertinent To All Models (cont'd)

Miscellaneous (not listed above) (cont'd)

			190	195	195A	195B
	(c) Dual stretchers (stored location) Install in accordance with Cessna dwgs. 0300004, 0300108 and 0310001. Loading to be determined by weight and balance check or from applicable loading schedule. (Baggage 96 lb. maximum with both stretchers occupied). When in use the C.G. of stretcher and occupant is at (+79). Eligible only with relocated aileron control system and battery (item 302(b).	34 lb.	(+92)	(+92)	(+92)	(+92)
606.	Baggage Provision					
	(a) Auxiliary compartment, maximum capacity 50 lb. When this is installed, the maximum capacity of the standard baggage compartment is 148 lb., or as determined by weight and balance check	3 lb.	(+111)	(+111)	(+111)	(+111)
	(b) Large compartment, maximum capacity 320 lb. Reference Cessna dwgs. 0311061, 0311063, and 0310001). Less weight added under item 606(c). Loading to be determined by weight and balance check or from applicable loading schedule.		(+97)	(+97)	(+97)	(+97)
	(c) Baggage shelf, maximum capacity 75 lb. (Used for baggage and/or radio equipment, reference Cessna dwg. 0311837)		(+92)	(+92)	(+92)	(+92)
607.	Two abrasion boots, Cessna dwg. 0432161, installed per Cessna dwg. 0332000	2 lb.	(+242)	(+242)	(+242)	(+242)
*608.	(a) Removable stretcher installation according to installation instructions supplied by Clinton Aviation Co., Denver, Colo. The following additional placard must be displayed on the baggage door: "Baggage 116 lb. maximum when stretcher is used."	37 lb.	(+79)	(+79)	(+79)	(+79)
	(b) Right rear seat installation (optional when Item 608(a) stretcher is installed.	11 lb.	(+69.5)	(+69.5)	(+69.5)	(+69.5)
609.	Large baggage door in accordance with Cessna dwg. 0311062. Facilitates use of items 605(c) or 606(b).					
**610.	12 inch chord wing flaps replacing 8 inch chord flaps, Cessna dwg. 0325001 (see NOTE 3 for limitations).	+2 lb.	(+87.0)	(+87.0)	(+87.0)	(+87.0)
**611.	Short chord elevators, Cessna dwg. 0334201 (see NOTE 3 for limitations).	-4 lb.	(+264)	(+264)	(+264)	(+264)
**612.	Stall warning indicator, Cessna Kit 52-3-535	+1 lb.	(+11)	(+11)	(+11)	(+11)
**613.	Seaplane conversion kit consisting of:					
	(a) 0341102-46 spring					
	(b) 0341102-47 tab extension					
	(c) 0310202-1 tube assembly					
*614.	Woychik retractable lifting handles, Woychik Aircraft Aircraft Equipment, Middleton, Wisconsin (dwgs. 50 and 50A)	1 lb.	(+211)	(+211)	(+211)	(+211)

Specifications Pertinent To All Models (cont'd)

NOTE 1. Current weight and balance report, together with list of equipment included in certificated empty weight, and loading instructions when necessary, must be in each aircraft at the time of original certification.

The certificated empty weight and corresponding center of gravity location must include unusable fuel of 30 lb. at (+63) with 40.5 gal. tanks and item 102(a) or (b), 34 lb. at (+63) with 40.5 gal. tanks and gravity fuel system, or 54 lb. at (+63) with 50.5 gal. tanks (item 108) (included in the fuel capacity) and unusable oil of 5 lb. at (-1) (not included in oil capacity).

NOTE 2. The following placards must be displayed in the locations noted:

(a) In front of and in clear view of the pilot:

(1) "This airplane must be operated as a normal or utility category airplane in compliance with the flight manual."

NORMAL

"No acrobatic maneuvers, including spins, approved.
With 3 people on rear seat both front seats must be occupied."

UTILITY

"No acrobatic maneuvers except those listed in the Flight Manual.
Baggage compartments and rear seat must not be occupied."
or Aircraft using index type loading chart:

NORMAL

"No acrobatic maneuvers, including spins approved."

UTILITY

"No acrobatic maneuvers except those listed in Flight Manual. Baggage compartments and rear seat must not be occupied."

(2) When auxiliary seaplane fin is installed on landplane

"Landplane with auxiliary seaplane fins. This airplane must be operated as a Normal Category airplane in compliance with the Landplane Flight Manual. No acrobatic maneuvers, including spins, approved. With 3 people on the rear seat, both front seats must be occupied."

or Aircraft using index type loading chart:

"Landplane with auxiliary seaplane fins. This airplane must be operated as a Normal Category airplane in compliance with the Landplane Flight Manual. No acrobatic maneuvers, including spins, approved.

(b) At the fuel selector valve with gravity fuel system in Model 190:

(1) "Takeoff and land with both tanks on."

Specifications Pertinent To All Models (cont'd)

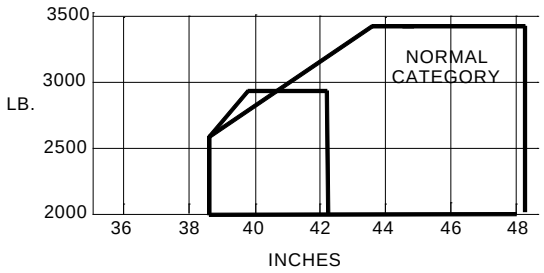
NOTE 3. With the installation of items 610 and 611 the following additional limitations apply:

(1) C.G. range - Landplane:

(Normal Category) (+43.7) to (+48.3) at 3350 lb.
(+38.3) at (+48.3) at 2636 lb.

(Utility Category) (+39.9) to (+42.2) at 2950 lb.
(+38.3) to (+42.2) at 2636 lb.

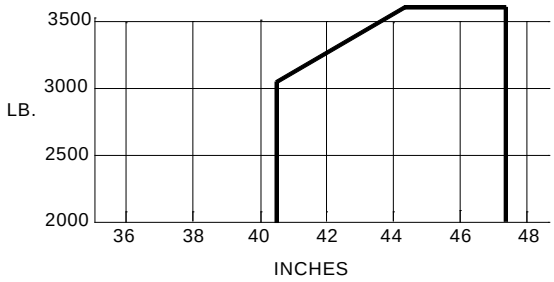
Straight line variation between points given.



Seaplane:

(Normal Category) (+44.4) to (+47.5) at 3600 lb.
(+40.6) to (+47.5) at 3100 lb. or less

Straight line variation between points given.



(2) Airspeed Limits: Flaps extended 110 m.p.h. (95 knots) True Ind.

(3) Control Surface Movements: Elevator tab Up 10° Down 20°
Wing flaps Down 30° (Seaplane only)

(4) Required equipment: Landplane: Items 403(j) or (k) or (l) or (m) and 612
Seaplane: Items 403(n) or (o), 612 and 613

(5) Serial Nos. eligible: 16084 and up.

WARNING: Use of alcohol-based fuels can cause serious performance degradation and fuel system component damage, and is therefore prohibited on Cessna airplanes.

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