

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A-699
Revision 6
TAYLORCRAFT
(Army L-2G) BF
BFS
BF-60
BFS-60
BF-65
BFS-65
(Army L-2K) BF12-65
BFS12-65
August 11, 1971

AIRCRAFT SPECIFICATION NO. A-699

Type Certificate Holder: Taylorcraft, Inc.
Connellsville Airport
Connellsville, Pennsylvania 15425

I - Model BF (Army L-2G), 2 PCLM, Approved 19 September 1938; Model BFS, 2 PCSM, Approved 5 April 1939

Engine	Franklin 4AC-150 Series 50 (Single ignition - Scintilla magneto). (See Item 308 for optional engines.)
Fuel	70 min. octane aviation gasoline.
Engine limits	For all operation, 2300 r.p.m. (50 hp.).
Airspeed limits (True Ind.)	Landplane: Level flight or climb 105 m.p.h. Glide or dive 131 m.p.h. Seaplane: Level flight or climb 95 m.p.h. 129 m.p.h.
Propeller limits	Landplane: maximum diameter 83 in. Seaplane: maximum diameter 79 in.
Center of Gravity (C.G.) range	Landplane: (+14.5) to (+19.5) Seaplane: (+15.1) to (+19.4)
Empty weight C.G. range	Landplane: (+15.3) to (+18.4) Seaplane: (+15.9) to (+18.3) When empty weight C.G. falls within the pertinent range, computation of critical fore and aft C.G. positions is unnecessary. Ranges are not valid for non-standard arrangements.
Maximum weight	Landplane: 1100 lb. (Serial No. 1407 and up are eligible at 1150 lb.). Seaplane: 1228 lb.
Number of seats	2 (+23)
Maximum baggage	30 lb. (+40)
Fuel capacity	12 gal. (-9) (See item 312 for auxiliary tank).

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Oil capacity	1 gal. (-34)				
Control surface movements	Elevators	27°	up	25°	down
	Ailerons	25°	up	25°	down
	Rudder	26°	right	26°	left
Serial Numbers eligible	1001 and up.				
Required equipment	Landplane:	Items 101, 102, 103, 104 and 105			
	Seaplane:	Items 103, 104, 105, and 151.			

II - Model BF-60, 2 PCLM, Approved 22 July 1939; Model BFS-60, 2 PCSM, Approved 7 October 1939
 (Same as BF and BFS except for engine installation.)

Engine	Franklin 4AC-171 (See Item 308 for optional engines).			
Fuel	70 min. octane aviation gasoline.			
Engine limits	For all operations, 2350 r.p.m. (60 hp.).			
Airspeed limits (True Ind.)	Landplane:	Level flight or climb	105 m.p.h.	
		Glide or dive	131 m.p.h.	
	Seaplane:	Level flight or climb	95 m.p.h.	
		Glide or dive	129 m.p.h.	
Propeller limits	Static r.p.m. at maximum permissible throttle setting: Not over 2330, not under 2120. No additional tolerance permitted.			
	Diameter -	Landplane:	Not over 83 in., not under 72 in.	
		Seaplane:	Not over 79 in., not under 72 in.	
Center of Gravity (C.G.) range	Landplane:	(+14.5) to (+19.7)		
	Seaplane:	(+15.1) to (+20.1)		
Empty weight C.G. range	Landplane:	(+15.3) to (+18.5)		
	Seaplane:	(+15.9) to (+19.0)		
	When empty weight C.G. falls within the pertinent range, computation of critical fore and aft C.G. positions is unnecessary. Ranges are not valid for non-standard arrangements.			
Maximum weight	Landplane:	1100 lb. (Serial No. 1407 and up eligible at 1150 lb.).		
	Seaplane:	1228 lb. (Serial No. 1432 and up eligible at 1278 lb.).		
Number of seats	2 (+23)			
Maximum baggage	30 lb. (+40)			
Fuel capacity	12 gal. (-9) (See item 312 for auxiliary tank).			
Oil capacity	1 gal. (-34)			
Control surface movements	Elevators	27°	up	25° down
	Ailerons	25°	up	25° down
	Rudder	26°	right	26° left
Serial Numbers eligible	1001 and up.			
Required equipment	Landplane:	Items 101, 102, 103, 104 and 105		
	Seaplane:	Items 103, 104, 105, and 151.		

III - Model BF-65,2 PCLM, and Model BFS-65, 2 PCSM, Approved 21 August 1941

(Same as BF and BFS except for engine installation).

Engine	Franklin 4AC-176-B2 (See Item 308 for optional engines.)			
Fuel	73 min. octane aviation gasoline.			
Engine limits	For all operations, 2200 r.p.m. (65 hp.).			
Airspeed limits (True Ind.)	Landplane:	Level flight or climb	105 m.p.h.	
		Glide or dive	131 m.p.h.	
	Seaplane:	Level flight or climb	95 m.p.h.	
		Glide or dive	129 m.p.h.	
Propeller limits	Static r.p.m. at maximum permissible throttle setting: Not over 2040, not under 1930. No additional tolerance permitted.			
	Diameter:	Not over 72 in., not under 70 in.		
Center of Gravity (C.G.) range	Landplane:	(+14.5) to (+19.7)		
	Seaplane:	(+15.1) to (+20.1)		
Empty weight C.G. range	Landplane:	(+15.3) to (+18.5)		
	Seaplane:	(+15.9) to (+19.0)		
	When empty weight C.G. falls within the pertinent range, computation of critical fore and aft C.G. positions is unnecessary. Ranges are not valid for non-standard arrangements.			
Maximum weight	Landplane:	1100 lb. (Serial No. 1407 and up eligible at 1150 lb.).		
	Seaplane:	1228 lb. (Serial No. 1432 and up eligible at 1278 lb.).		
Number of seats	2 (+23)			
Maximum baggage	30 lb. (+40)			
Fuel capacity	12 gals. (-9) (See item 312 for auxiliary tank).			
Oil capacity	5 qts. (-34)			
Control surface movements	Elevators	27° up	25° down	
	Ailerons	25° up	25° down	
	Rudder	26° right	26° left	
Serial Numbers eligible	1001 and up.			
Required equipment	Landplane:	Items 101, 102, 103, 104, 105		
	Seaplane:	Items 103, 104, 105, 151.		

IV - Model BF12-65 (Army L-2K),2 PCLM and Model BFS12-65, 2 PCSM, Approved 1 May 1941

(Same as BF and BFS except for engine installation).

Engine	Franklin 4AC-176-B2 (See Item 308 for optional engines.)			
Fuel	73 min. octane aviation gasoline.			
Engine limits	For all operations, 2200 r.p.m. (65 hp.).			

Airspeed limits (True Ind.)	Landplane:	Level flight or climb	105 m.p.h.
		Glide or dive	140 m.p.h.
	Seaplane:	Level flight or climb	95 m.p.h.
		Glide or dive	129 m.p.h.
Propeller limits	Static r.p.m. at maximum permissible throttle setting: Not over 2040, not under 1930. No additional tolerance permitted.		
	Diameter: Not over 72 in., not under 70 in.		
Center of Gravity (C.G.) range	Landplane:	(+14.2) to (+20.0)	
	Seaplane:	(+14.2) to (+20.0) with EDO floats, Item 151. (+14.6) to (+20.0) with Heath floats, Item 319.	
Empty weight C.G. range	Landplane:	(+14.8) to (+17.3)	
	Seaplane:	(+14.8) to (+19.1) with EDO floats, Item 151. (+15.2) to (+19.1) with Heath floats, Item 319.	
Maximum weight	Landplane:	1200 lb.	
	Seaplane:	1278 lb.	
Number of seats	2 (+23)		
Maximum baggage	Landplane:	50 lb. (+40)	
	Seaplane:	50 lb. (+40)	
Fuel capacity	18 gal. (12 gal. in fuselage at -9 and 6 gal. in wing at +24). (See NOTE 3).		
Oil capacity	5 qt. (-34)		
Control surface movements	Elevators	27° up	25° down
	Ailerons	25° up	25° down
	Rudder	26° right	26° left
	Elevator trim tab	25° up	30° down
Serial Numbers eligible	2401, 2501, 2503, 2504, 2529 and up and all Air Force numbers. Use manufacturer's number when available.		
Required equipment	Landplane:	Items 101, 102, 103, 104, 105 and 108.	
	Seaplane:	Items 103, 104, 105, 108 and 151.	

Specification Pertinent to All Models

Datum	Leading edge of wing.
Leveling means	Upper surface of horizontal stabilizer.
Certification basis	Type Certificate No. 699 (CAR 4a).
Production basis	None. Prior to original certification, an FAA representative must perform detailed inspection for workmanship, materials and conformity with the approved technical data, and a check of the flight characteristics.

Equipment: A plus (+) or minus (-) sign preceding the weight of an item of equipment 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 a CAA monitored or approved quality control system, and therefore attention should be paid to workmanship and conformity with pertinent data called for in this specification.

Propellers and Propeller Accessories

103. Propeller - wood (fixed or adjustable pitch) 10 lb. (-46)

Engines and Engine Accessories - Fuel and Oil System

No aircraft of these models shall be eligible for original certification with single ignition engines after 1 August 1941. In addition, no aircraft of these models shall be eligible for recertification with single ignition engines unless such aircraft were either previously certificated with single ignition engines or were originally certificated prior to 1 August 1941.

104. Carburetor air heater (BF-L600)
108. Enclosed engine cowl (BF12-65)
109. AC air filter 1529265 (Aircooled Motors Dwg. SK-534-4) 1 lb. (-23)
(Models BF-65 and BF12-65 only)
110. Oil Filter PB-5, weight includes 1 qt. of oil 4 lb. (-20)
(a) (BF, BFS, BF-60, BFS-60) Kit No. 500, Fram Installation Dwg. 500
(b) (BF-12-65, BFS12-65) Kit No. 501 Fram Installation Dwg. 61564
308. Engines, Franklin (See Engine Specification No. 194, 206 and 221)
A. 4AC-150 Series 50 (for Models BF & BFS) (-34)
(a) Scintilla SF-4L or -4R (Dual ignition) +11 lb.
(b) Wico AP-953 (Dual ignition) +4 lb.
B. 4AC-176-BA2 (for Models BF-65 and BF12-65) Neglect weight change
Engines limits - for all operations, 2300 r.p.m. (65 hp.)
Propeller limits - Static r.p.m. at maximum permissible
throttle setting - not over 2250, not under 2140.
No additional tolerance permitted.
Diameter - not more than 72 in., not less than 70 in.
C. 4AC-150 Series A (Engine mount Dwg. BF-A13 or BF-A130)
(For Model BF-60, Serial No. 1001 to 1406 incl., only)
Fuel - 73 min. oct., Engine limits - For all operations,
2400 r.p.m. (60 hp.); Prop. limits under BF-60.
312. Auxiliary 6 gal. fuselage fuel tank installation 8 lb. (+30)
(Fuel arm (+35)) (BF, BFS, BF-60, BFS-60, BF-65 and BFS-65)
318. Exhaust muffler and carburetor heater installation Neglect weight change
(BF12-L68) (This item may replace Item 104)

Landing Gear and Floats

101. 6.00-6 wheels (Firestone 604) with 2-ply tires 21 lb. (+2)
102. Tail skid
107. Parking brake (BF12-65) 1 lb. (-9)
151. EDO 60-1320 float installation 169 lb. +115 lb. (+22)
(including auxiliary fin 4 lb. (+176))
As an alternate method of installing Item 151, Taylorcraft
clamp-on fuselage fittings, Part Numbers 2554, 2555, and 2556
may be used.

302.	Tail wheel assembly	
	(a) 6x2.00 steerable with brake (Baxter)	+5 lb.
	(b) 6x2.00 steerable (Aircraft Associates)	+3 lb.
	(c) 6x2.00 full swiveling (Firestone Industrial)	+3 lb.
	(d) 6x2.00 steerable (Lake State Products 5-40-31)	+4 lb.
	(e) 6x2.00 steerable (Heath)	+4 lb.
	(f) Steerable (Decker D-501)	6 lb.
304.	6.00-6 wheel (Firestone 6C4HB) with brakes	+6 lb. (+1)
305.	Wheel streamlines (Dwg. A-9015 or A9016)	6 lb. (+2)
309.	Parking brake (BF and BF-60)	1 lb. (-9)
*314.	Skis (Eligible on any airplane of these models provided the propeller installation meets the minimum 9 in. ground clearance. The maximum weight for the skiplane will be the same as for the corresponding landplane or that shown in parenthesis after each ski model, whichever is less.)	Use actual weight change
	(a) Marston 1200 (Maximum 1200 lb.)	
	(b) Air Transport 1220-480 (Maximum 1220 lb.)	
	(c) Air Transport 1224-580-1 (Maximum 1220 lb.)	
	(d) Federal SC-1 (Maximum 1400 lb.)	
	(e) Piper S-1000 (Maximum 1200 lb.)	
	(f) Jennings TY-2 (Maximum 1200 lb.)	
	(g) Federal SA-1 (Maximum 1200 lb.)	
	(h) Aviation Service B (Maximum 1650 lb.)	
	(i) Richards 1-B (Maximum 2220 lb.)	
	(j) Washington Aircraft 1200 (Maximum 1200 lb.)	
	(k) Heath 655 (Maximum 1210 lb.)	
	(l) Federal SC-2 (Maximum 1650 lb.)	
	(m) Aviation Service A (Maximum 1100 lb.)	
	(n) Federal SA-1A (Maximum 1300 lb.)	
	(o) Jacobsen (Formerly Escanaba) EAS-100 (Maximum 1200 lb.)	
	(p) Richards 1-A (Maximum 2800 lb.)	
	(q) Marston MFS-1600 (Maximum 1600 lb.)	
	(r) Heath 725 (Maximum 1450 lb.)	
	(s) Aero, Sales & Service AS-6.00-6 (Maximum 1320 lb.)	
	(t) Jack Carr Service 16 (Maximum 1600 lb.)	
	(u) Fairbanks MF-5 (Maximum 1310 lb.)	
	(v) Heath 725 A (Maximum 1450 lb.)	
	(w) Federal SKT-1 (Maximum 1400 lb.)	
	(x) Call S2 (Maximum 1800 lb.)	
	(y) Federal A-1500 (Maximum 1500 lb.), Federal Instal. Dwg. 11R232	
	(z) Federal A-1500A (Maximum 1500 lb.), Federal Instal. Dwg. 11R232	
	(aa) Federal A-1850 (Maximum 1850 lb.), Federal Instal. Dwg. 11R232	
	(ab) Federal A-2000 (Maximum 1500 lb.), Federal Instal. Dwg. 11R232	
	(ac) Federal A-2000A (Maximum 2000 lb.), Federal Instal. Dwg. 11R232	
	(ad) Federal CA-1850-6 (Maximum 2000 lb.), Federal Instal. Dwg. 11R232	
	(ae) Wesco A-15, Western Aircraft Equipment Co. Dwgs. 148, 202, 203.	
	(af) Wesco A-20, Western Aircraft Equipment Co. Dwgs. 148, 202, 203.	
315.	6.00-6 4-ply tires	Neglect weight change
319.	Heath 1460A float installation, 172 lb., incl. aux. fin, 4 lb. (+176) (BFS12-65 only)	+122 lb. (+25)
*320.	Consolidair Model 16 Wheel Fenders (per airplane) Consolidair installation Dwg. 0029	10 lb. (+2)

Electrical and Radio Equipment

310.	Battery and box	9 lb. (+10)
311.	Radio installations	
(a)	Receiver (BF, BFS, BF-60 and BFS-60)	9 lb. (+39)
(b)	Receiver (BF12-65 and BFS12-65)	11 lb. (+12)
(c)	Transmitter (BF12-65 and BFS12-65)	9 lb. (+8)
(d)	Reel type trailing antenna (BF12-65 and BFS12-65)	3 lb. (+61)
(e)	"T" type antenna	1 lb. (+40)
(f)	Lear Loop Rotator AML-1 (BF12-65 and BFS12-65)	2 lb. (+25)
(g)	Lear receiver complete, including receiver AMR-1 5 lb. (+2), dry battery and cable 6 lb. (+20), antenna 1 lb. (+40) (B12 series only)	12 lb. (+14)
(h)	Lear receiver and transmitter complete, including receiver AMR-1 5 lb. (+2), receiver antenna 1 lb. (+40), transmitter AMT-1 5 lb. (+2), trailing antenna 3 lb. (+61), dry battery and cable 9 lb. (+20) (B12 series only)	23 lb. (+18)
(i)	Heath receiver complete, including receiver MA-4 7 lb. (+2), dry battery and cable 6 lb. (+20), antenna 1 lb. (+40) (B12 series only)	14 lb. (+13)
317.	Position lights (Grimes B)	2 lb. (+77)

Interior Equipment

105.	Wheel type control	
306.	Cabin heater (Taylorcraft Dwg. BF-L607)	2 lb. (-22)
313.	Stick type control	Neglect weight change

Miscellaneous (not listed above)

106.	Auxiliary door (BF12-65)	
303.	Auxiliary door (BF, BFS, BF-60, BFS-60)	+5 lb. (+17)
316.	Special instruments (B12 series only)	
(a)	Bank and turn	4 lb. (0)
(b)	Rate of climb	2 lb. (-4) or (-9)
(c)	Compass	2 lb. (+4)

NOTE 1. Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter (except in the case of air carrier operators having an approved weight control system).

NOTE 2. Reserved.

NOTE 3. Refill main tank in level flight and only when main tank is less than 1/2 full.

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