

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

			A-759
			Revision 73
		American Champion	
		(Bellanca)	
		(Champion)	
		(Aeronca)	
	7AC		
	7ACA	7EC	7GCB
	S7AC	S7EC	7GCBA
(L-16A)	7BCM	7ECA	7GCBC
(L-16B)	7CCM	7FC	7HC
	S7CCM	7GC	7JC
	7DC	7GCA	7KC
	S7DC	7GCAA	7KCAB
			February 9, 2011

AIRCRAFT SPECIFICATION NO. A-759

Type Certificate Holder: American Champion Aircraft Corp.  
P. O. Box 37  
Rochester, WI 53167

Type Certificate Holder Record: Aeronca Aircraft Corporation transferred TC A-759 to  
Champion Aircraft Corporation on July 19, 1954

Champion Aircraft Corporation transferred TC A-759 to  
Bellanca Aircraft Corporation on March 15, 1971

Bellanca Aircraft Corporation transferred TC A-759 to  
Champion Aircraft Company, Inc. on November 1, 1982

Champion Aircraft Company, Inc. transferred TC A-759 to  
Tetelestai, Inc. on October 11, 1988

Tetelestai transferred TC A-759 to  
FRA Enterprises, Inc. on December 27, 1988

FRA Enterprises, Inc. transferred TC A-759 to  
American Champion Aircraft Corp. on May 30, 1989

I - Model 7AC, 2 PCLM (Normal Category), Approved October 18, 1945  
(See NOTE 4 for optional engines and conversions to other models)

Engine Continental A-65-8 (see item 115 for Lycoming O-235-C)

Fuel 73 minimum grade aviation gasoline

Engine Limits For all operations, 2300 r.p.m. (65 hp.)

Airspeed Limits Level flight or climb 95 m.p.h. (83 knots) True Ind.  
Glide or dive 129 m.p.h. (112 knots) True Ind.

Propeller Limits Static rpm at maximum permissible throttle setting:  
(For fixed pitch wood propeller) Not over 2250, not under 1960. No additional tolerance permitted.  
Diameter: not over 72 in., not under 70 in.

C.G. Range (+10.9) to (+21.5)

Empty wt.  
C.G. Range (+14.1) to (+17.9) standard arrangement  
(+14.1) to (+15.0) when item 106(a) installed. When empty weight C.G. falls within the range given, it is not necessary to compute critical fore and aft C.G. positions. This range valid for standard arrangement only.

Maximum Weight 1220 lb.

No. of Seats 2 (1 at +11.5, 1 at +42)

Maximum Baggage 40 lbs. at +64. See NOTE 2 for baggage placard.

Fuel Capacity 13 gal. at -15.

Oil Capacity 4 qt. at -33.

Page No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Rev. No.	70	65	65	65	65	65	65	65	65	65	71	68	70	67	73	73	66	71	73	70
Page No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34						
Rev No.	73	69	66	69	73	69	66	66	66	66	66	67	73	70						

Control Surface Movements	Elevator	Up	25 <sup>0</sup>	Down	15.5 <sup>0</sup>
	Elevator Trim Tab	Up	20 <sup>0</sup>	Down	34.5 <sup>0</sup>
	Ailerons	Up	28.5 <sup>0</sup>	Down	18 <sup>0</sup>
	Rudder	Right	24 <sup>0</sup>	Left	25 <sup>0</sup>
Serial Nos. Eligible	7AC-1 and up.				
Required Equipment	Items 1, 101, 102, 201, 202.				

II - Model S7AC, 2 PCSM (Normal Category), Approved February 27, 1947  
(Same as 7AC except for float installation)

Engine	Continental A-65-8				
Fuel	80 minimum grade aviation gasoline				
Engine Limits	For all operations, 2300 r.p.m. (65 hp.)				
Airspeed Limits	Level flight or climb	90 m.p.h. (78 knots) True Ind.			
	Glide or dive	121 m.p.h. (105 knots) True Ind.			
Propeller Limits (For fixed pitch propeller)	Static rpm at maximum permissible throttle setting: Not over 2200, not under 1960. No additional tolerance permitted. Diameter: not over 76 in., not under 70 in.				
C.G. Range	(+10.9) to (+19.5)				
Empty wt. C.G. Range	(+13.6) to (+15.7) not valid when item 106(a) installed. When empty weight C.G. falls within this range, it is not necessary to compute critical fore and aft C.G. positions. This range valid for standard arrangement only.				
Maximum Weight	1320 lb.				
No. of Seats	2 (1 at +11.5, 1 at +42)				
Maximum Baggage	40 lbs. at +64. See NOTE 2 for baggage placard.				
Fuel Capacity	13 gal. at -15.				
Oil Capacity	4 qt. at -33.				
Control Surface Movements	Elevator	Up	25 <sup>0</sup>	Down	15.5 <sup>0</sup>
	Elevator Trim Tab	Up	20 <sup>0</sup>	Down	34.5 <sup>0</sup>
	Ailerons	Up	28.5 <sup>0</sup>	Down	18 <sup>0</sup>
	Rudder	Right	24 <sup>0</sup>	Left	25 <sup>0</sup>
Serial Nos. Eligible	7AC-1 and up.				
Required Equipment	Items 1, 101, 102, 204(a) or (b), 205(a), 205(c)				

III - Model 7BCM (Army L-16A), 2 PCLM (Normal Category), Approved September 16, 1947

Same as 7AC except for powerplant installation. See NOTE 4 for conversion from Model 7AC.

Engine	Continental C-85-8, -8F, -8J or -8FJ				
Fuel	80 minimum grade aviation gasoline				
Engine Limits	For all operations, 2575 r.p.m. (85 hp.)				
Airspeed Limits	Level flight or climb	95 m.p.h. (83 knots) True Ind.			
	Glide or dive	129 m.p.h. (112 knots) True Ind.			
Propeller Limits (For fixed pitch wood propeller)	Static rpm at maximum permissible throttle setting: Not over 2450, not under 2200. No additional tolerance permitted. Diameter: not over 72 in., not under 70 in.				
C.G. Range	(+10.4) to (+19.7)				
Empty wt. C.G. Range	(+13.2) to (+15.5) valid only for standard arrangement. When empty weight C.G. falls within this range, it is not necessary to compute critical fore and aft C.G. positions.				
Maximum Weight	1220 lb.				
No. of Seats	2 (1 at +11.5, 1 at +42). Placard: "Solo from front seat only."				
Maximum Baggage	50 lbs. at +64.				

Fuel Capacity	13 gal. at -15.																				
Oil Capacity	4 qt. at -33.																				
Control Surface Movements	<table> <tr> <td>Elevator</td> <td>Up</td> <td>27<sup>0</sup></td> <td>Down</td> <td>21.5<sup>0</sup></td> </tr> <tr> <td>Elevator Trim Tab</td> <td>Up</td> <td>20<sup>0</sup></td> <td>Down</td> <td>34.5<sup>0</sup></td> </tr> <tr> <td>Ailerons</td> <td>Up</td> <td>28.5<sup>0</sup></td> <td>Down</td> <td>18<sup>0</sup></td> </tr> <tr> <td>Rudder</td> <td>Right</td> <td>24<sup>0</sup></td> <td>Left</td> <td>25<sup>0</sup></td> </tr> </table>	Elevator	Up	27 <sup>0</sup>	Down	21.5 <sup>0</sup>	Elevator Trim Tab	Up	20 <sup>0</sup>	Down	34.5 <sup>0</sup>	Ailerons	Up	28.5 <sup>0</sup>	Down	18 <sup>0</sup>	Rudder	Right	24 <sup>0</sup>	Left	25 <sup>0</sup>
Elevator	Up	27 <sup>0</sup>	Down	21.5 <sup>0</sup>																	
Elevator Trim Tab	Up	20 <sup>0</sup>	Down	34.5 <sup>0</sup>																	
Ailerons	Up	28.5 <sup>0</sup>	Down	18 <sup>0</sup>																	
Rudder	Right	24 <sup>0</sup>	Left	25 <sup>0</sup>																	
Serial Nos. Eligible	7BCM-1 and up. Also, see NOTE 5 for military S/N's eligible.																				
Required Equipment (Items)	Carburetor engine: 1, 102, 105, 201, 202. Injector engine: 1, 110, 201, 202.																				

IV - Model 7CCM (Army L-16B), 2 PCLM (Normal Category), Approved July 12, 1948

Same as 7BCM except for powerplant installation, increased fin area, auxiliary fuel wing tank and fuselage member changed. See NOTE 4 for conversion from Model 7AC.

Engine	Continental C90-8F or C90-8FJ																				
Fuel	80 minimum grade aviation gasoline																				
Engine Limits	For all operations, 2475 r.p.m. (90 hp.)																				
Airspeed Limits	Level flight or climb 100 m.p.h. ( 87 knots) True Ind. Glide or dive 135 m.p.h. (117 knots) True Ind.																				
Propeller Limits (For fixed pitch wood propeller)	Static rpm at maximum permissible throttle setting: Not over 2410, not under 2170. No additional tolerance permitted. Diameter: not over 72 in., not under 70 in.																				
C.G. Range	(+16.8) to (+20.0) at 1300 lb. (+10.0) to (+20.0) at 1087 lb. or less Straight line variation between points given.																				
Empty wt.																					
C.G. Range	None																				
Maximum Weight	1300 lb. May be increased to 1350 lb. when "Long Stroke Oleo Landing Gear", Aeronca P/N 3-665, installed and placard, "Intentional spinning prohibited when baggage carried", Aeronca P/N 1-2929, installed on instrument panel. C.G. range at 1350 lb. is as follows: (+16.8) to (+20.4) at 1350 lb. (+10.0) to (+20.4) at 1087 lb. or less Straight line variation between points given.																				
No. of Seats	2 (1 at +11.5, 1 at +42). Placard: "Solo from front seat only."																				
Maximum Baggage	50 lbs. at +64.																				
Fuel Capacity	18.5 gal. (13 gal. at -15, 5.5 gal. at +24).																				
Oil Capacity	5 qt. at -33.																				
Control Surface Movements	<table> <tr> <td>Elevator</td> <td>Up</td> <td>24<sup>0</sup></td> <td>Down</td> <td>24<sup>0</sup></td> </tr> <tr> <td>Elevator Trim Tab</td> <td>Up</td> <td>17.5<sup>0</sup></td> <td>Down</td> <td>37.5<sup>0</sup></td> </tr> <tr> <td>Ailerons</td> <td>Up</td> <td>28.5<sup>0</sup></td> <td>Down</td> <td>18<sup>0</sup></td> </tr> <tr> <td>Rudder</td> <td>Right</td> <td>25<sup>0</sup></td> <td>Left</td> <td>25<sup>0</sup></td> </tr> </table>	Elevator	Up	24 <sup>0</sup>	Down	24 <sup>0</sup>	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	37.5 <sup>0</sup>	Ailerons	Up	28.5 <sup>0</sup>	Down	18 <sup>0</sup>	Rudder	Right	25 <sup>0</sup>	Left	25 <sup>0</sup>
Elevator	Up	24 <sup>0</sup>	Down	24 <sup>0</sup>																	
Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	37.5 <sup>0</sup>																	
Ailerons	Up	28.5 <sup>0</sup>	Down	18 <sup>0</sup>																	
Rudder	Right	25 <sup>0</sup>	Left	25 <sup>0</sup>																	
Serial Nos. Eligible	7CCM-1 and up. Also, see NOTE 5 for military S/N's eligible.																				
Required Equipment (Items)	With Continental C90-8F engine: 1, 102, 105, 106, 109, 201, 202. With Continental C90-8FJ engine: 1, 106, 110, 201, 202.																				

V - Model 7DC, 2 PCLM (Normal Category), Approved July 12, 1948

Same as 7CCM except for powerplant installation. See NOTE 4 for conversion from Model 7AC.

Engine	Continental C-85-8, -8F, -8J, or -8FJ
Fuel	80 minimum grade aviation gasoline
Engine Limits	For all operations, 2575 r.p.m. (85 hp.)
Airspeed Limits	Level flight or climb 100 m.p.h. ( 87 knots) True Ind. Glide or dive 135 m.p.h. (117 knots) True Ind.
Propeller Limits (For fixed pitch wood propeller)	Static rpm at maximum permissible throttle setting: Not over 2465, not under 2300. No additional tolerance permitted. Diameter: not over 72 in., not under 70 in.

C.G. Range	(±16.8) to (±20.0) at 1300 lb. (±10.0) to (±20.0) at 1087 lb. or less Straight line variation between points given.				
Empty wt.	None				
C.G. Range	None				
Maximum Weight	1300 lb. May be increased to 1350 lb. when "Long Stroke Oleo Landing Gear", Aeronca P/N 3-665, installed and placard, "Intentional spinning prohibited when baggage carried", Aeronca P/N 1-2929, installed on instrument panel. C.G. range at 1350 lb. is as follows: (±16.8) to (±20.4) at 1350 lb. (±10.0) to (±20.4) at 1087 lb. or less Straight line variation between points given.				
No. of Seats	2 (1 at +11.5, 1 at +42). Placard: "Solo from front seat only."				
Maximum Baggage	50 lbs. at +64.				
Fuel Capacity	18.5 gal. (13 gal. at -15, 5.5 gal. at +24).				
Oil Capacity	5 qt. at -33.				
Control Surface Movements	Elevator	Up	24 <sup>0</sup>	Down	24 <sup>0</sup>
	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	37.5 <sup>0</sup>
	Ailerons	Up	28.5 <sup>0</sup>	Down	18 <sup>0</sup>
	Rudder	Right	25 <sup>0</sup>	Left	25 <sup>0</sup>
Serial Nos. Eligible	7DC-1 and up.				
Required Equipment (Items)	With carburetor engine: 1, 102, 105, 201, 202. With injector engine: 1, 110, 201, 202.				

VI - Model S7DC, 2 PCSM (Normal Category), Approved September 22, 1948

Same as 7DC except for increase in maximum weight, float and auxiliary ventral fin installation.

Engine	Continental C-85-8F				
Fuel	80 minimum grade aviation gasoline				
Engine Limits	For all operations, 2575 r.p.m. (85 hp.)				
Airspeed Limits	Level flight or climb	95 m.p.h. ( 83 knots) True Ind.			
	Glide or dive	129 m.p.h. (112 knots) True Ind.			
Propeller Limits (For fixed pitch wood propeller)	Static rpm at maximum permissible throttle setting: Not over 2440, not under 2290. No additional tolerance permitted. Diameter: not over 72 in., not under 70 in.				
C.G. Range	(±16.8) to (±20.3) at 1400 lb. (±10.4) to (±20.3) at 1189 lb. or less Straight line variation between points given.				
Empty wt.	None				
C.G. Range	None				
Maximum Weight	1400 lb.				
No. of Seats	2 (1 at +11.5, 1 at +43). Placard: "Solo from front seat only."				
Maximum Baggage	50 lbs. at +64.				
Fuel Capacity	18.5 gal. (13 gal. at -15, 5.5 gal. at +24).				
Oil Capacity	5 qt. at -33.				
Control Surface Movements	Elevator	Up	27 <sup>0</sup>	Down	21.5 <sup>0</sup>
	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	37.5 <sup>0</sup>
	Ailerons	Up	28.5 <sup>0</sup>	Down	18 <sup>0</sup>
	Rudder	Right	25 <sup>0</sup>	Left	25 <sup>0</sup>
Serial Nos. Eligible	7DC-1 and up.				
Required Equipment	Items 1, 102, 105, 204(b), 205(a), 205(c).				

VII - Model S7CCM, 2 PCSM (Normal Category), Approved March 15, 1949

Same as 7CCM except for increase in maximum weight, float and auxiliary ventral fin installation.

Engine	Continental C90-8F or C90-8FJ			
Fuel	80 minimum grade aviation gasoline			
Engine Limits	For all operations, 2475 r.p.m. (90 hp.)			
Airspeed Limits	Level flight or climb	95 m.p.h. ( 83 knots)	True Ind.	
	Glide or dive	129 m.p.h. (112 knots)	True Ind.	
Propeller Limits (For fixed pitch wood propeller)	Static rpm at maximum permissible throttle setting:			
	Not over 2410, not under 2170. No additional tolerance permitted. Diameter: not over 72 in., not under 70 in.			
C.G. Range	(+16.8) to (+20.3) at 1400 lb.			
	(+10.4) to (+20.3) at 1189 lb. or less			
	Straight line variation between points given.			
Empty wt.	None			
C.G. Range	None			
Maximum Weight	1400 lb.			
No. of Seats	2 (1 at +11.5, 1 at +42). Placard: "Solo from front seat only."			
Maximum Baggage	50 lbs. at +64.			
Fuel Capacity	18.5 gal. (13 gal. at -15, 5.5 gal. at +24).			
Oil Capacity	5 qt. at -33.			
Control Surface Movements	Elevator	Up	24 <sup>0</sup>	Down 24 <sup>0</sup>
	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down 37.5 <sup>0</sup>
	Ailerons	Up	28.5 <sup>0</sup>	Down 18 <sup>0</sup>
	Rudder	Right	25 <sup>0</sup>	Left 25 <sup>0</sup>
Serial Nos. Eligible	7CCM-1 and up. Also, see NOTE 5 for military S/N's eligible.			
Required Equipment (Items)	With Continental C90-8F engine: 1, 102, 105, 106, 109, 204(b), 205(a), 205(c).			
	With Continental C90-8FJ engine: 1, 106, 110, 204(b), 205(a), 205(c).			

VIII - Model 7EC, 2 PCLM (Normal Category), Approved November 30, 1949

See Note 8 for conversion from Model 7JC.

See Note 16 for alternate engine and weight configuration.

Engine	Continental C90-12F or C90-12FJ			
Fuel	80 minimum grade aviation gasoline			
Engine Limits	For all operations, 2475 r.p.m. (90 hp.)			
Airspeed Limits	Level flight or climb	100 m.p.h. ( 87 knots)	True Ind.	
	Glide or dive	135 m.p.h. (117 knots)	True Ind.	
Propeller Limits (For fixed pitch wood propeller)	Static rpm at maximum permissible throttle setting:			
	Not over 2350, not under 2125. No additional tolerance permitted. Diameter: not over 72 in., not under 70 in.			
C.G. Range	(+15.0) to (+19.2) at 1450 lb.			
	(+10.2) to (+19.2) at 1190 lb. or less			
	Straight line variation between points given. Placard: "Intentional spinning prohibited when carrying baggage."			
Empty wt.	None			
C.G. Range	None			
Maximum Weight	1450 lb.			
	1300 lb. (If lower end landing gear oleo strut assembly, Aeronca dwg. 3-433, is installed).			
	C.G. range at 1300 lb. is as follows:			
	(+16.8) to (+19.2) at 1300 lb.			
	(+10.2) to (+19.2) at 1100 lb. or less Straight line variation between points given.			
C.G. Range	1500 lb. (S/N's 7EC-705 and up eligible)			
	C.G. range at 1500 lb. is as follows:			
	(+15.0) to (+19.2) at 1500 lb.			
	(+10.2) to (+19.2) at 1190 lb. or less			
	Straight line variation between points given.			
No. of Seats	2 (1 at +11.5, 1 at +42). Placard: "Solo from front seat only."			
Maximum Baggage	50 lbs. at +64.			

Fuel Capacity	18.5 gal. (13 gal. at -15, 5.5 gal. at +24). See item 116 for optional fuel systems.				
Oil Capacity	5 qt. at -33.				
Control Surface Movements	Elevator	Up	24 <sup>0</sup>	Down	24 <sup>0</sup>
	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	37.5 <sup>0</sup>
	Ailerons	Up	28.5 <sup>0</sup>	Down	18 <sup>0</sup>
	Rudder	Right	25 <sup>0</sup>	Left	25 <sup>0</sup>
Serial Nos. Eligible	1 and up.				
Required Equipment (Items)	With Continental C90-12F engine: 1, 102, 105, 109, 201, 202. With Continental C90-12FJ engine: 1, 106, 110, 201, 202.				

IX - Model S7EC, 2 PCSM (Normal Category), Approved May 12, 1950

Same as 7EC except for increase in maximum weight, float and auxiliary ventral fin installation.

Engine	Continental C90-12F or C90-12FJ				
Fuel	80 minimum grade aviation gasoline				
Engine Limits	For all operations, 2475 r.p.m. (90 hp.)				
Airspeed Limits	Level flight or climb	95 m.p.h. ( 83 knots)	True Ind.		
	Glide or dive	129 m.p.h. (112 knots)	True Ind.		
C.G. Range	(+15.0) to (+18.6) at 1474 lb. (+10.4) to (+18.6) at 1258 lb. or less Straight line variation between points given. Placard: "Intentional spinning prohibited when carrying baggage."				
Empty wt.					
C.G. Range	None				
Maximum Weight	1474 lb.				
No. of Seats	2 (1 at +11.5, 1 at +42). Placard: "Solo from front seat only."				
Maximum Baggage	50 lbs. at +64.				
Fuel Capacity	18.5 gal. (13 gal. at -15, 5.5 gal. at +24). See item 116 for optional fuel systems.				
Oil Capacity	5 qt. at -33.				
Control Surface Movements	Elevator	Up	24 <sup>0</sup>	Down	24 <sup>0</sup>
	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	37.5 <sup>0</sup>
	Ailerons	Up	28.5 <sup>0</sup>	Down	18 <sup>0</sup>
	Rudder	Right	25 <sup>0</sup>	Left	25 <sup>0</sup>
Serial Nos. Eligible	1 and up.				
Required Equipment (Items)	With Continental C90-12F engine: 6, 102, 105, 106, 109, 112, 204(b), 205(a). With Continental C90-12FJ engine: 6, 106, 110, 112, 204(b), 205(a).				

X - Model 7FC, 2 PCLM (Normal Category), Approved March 27, 1957

See Note 7 for conversion to Wide Track Main Gear

Engine	Continental C90-12F or C90-12FJ			
Fuel	80 minimum grade aviation gasoline			
Engine Limits	For all operations, 2475 r.p.m. (90 hp.)			
Airspeed Limits	Level flight or climb	100 m.p.h. ( 87 knots)	True Ind.	
	Glide or dive	135 m.p.h. (117 knots)	True Ind.	
Propeller Limits (For fixed pitch wood propeller)	Static rpm at maximum permissible throttle setting: Not over 2350, not under 2125. No additional tolerance permitted. Diameter: not over 72 in., not under 70 in.			
C.G. Range	(+15.0) to (+17.2) at 1450 lb. (+10.2) to (+17.2) at 1190 lb. or less Straight line variation between points given. Placard: "Intentional spinning prohibited when carrying baggage."			
Empty wt.				
C.G. Range	None			

Maximum Weight	1450 lb. (S/N's 7FC-2 thru 7FC-405) 1500 lb. (S/N's 7FC-406 and up when Champion 7-1159 Wide Track Main Gear installed. S/N's 7FC-347 thru 7FC-405 eligible for 1500 lb. maximum weight when modified in accordance with Champion Service Letters Nos. 45 and 46) C.G. range at 1500 lb. is as follows: (+15.0) to (+18.5) at 1500 lb. (+10.2) to (+18.5) at 1190 lb. or less Straight line variation between points given.				
No. of Seats	2 (1 at +11.5, 1 at +42). Placard: "Solo from front seat only."				
Maximum Baggage	50 lbs. at +64.				
Fuel Capacity	26 gal. (two 13 gal. wing tanks +24)				
Oil Capacity	5 qt. at -35.				
Control Surface Movements	Elevator	Up	24 <sup>0</sup>	Down	24 <sup>0</sup>
(1500 lb. max. wt. only)	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	37.5 <sup>0</sup>
	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	44 <sup>0</sup>
	Ailerons	Up	28.5 <sup>0</sup>	Down	18 <sup>0</sup>
	Rudder	Right	25 <sup>0</sup>	Left	25 <sup>0</sup>
Serial Nos. Eligible	2 and up.				
Required Equipment (Items)	With Continental C90-12F engine: 1, 102, 103, 105, 116, 201(b) or (d). (201(e) and 210(b) also required for 1500 lb. maximum weight). With Continental C90-12FJ engine: 1, 110, 116, 201(b) or (d). (201(e) and 210(b) also required for 1500 lb. maximum weight).				

XI - Model 7GC, 2 PCL-SM (Normal Category), Approved October 3, 1958

Model 7GC is generally similar to 7EC except for modified fuselage structure as required for increase in gross weight and installation of Lycoming O-290-D2B engine and revised fuel system.

Engine	Lycoming O-290-D2B				
Fuel	80 minimum grade aviation gasoline				
Engine Limits	Takeoff (one minute)	2800 r.p.m.	(140 hp.)		
	Maximum continuous	2600 r.p.m.	(135 hp.)		
Airspeed Limits	Landplane: Level flight or climb	120 m.p.h.	(104 knots) True Ind.		
	Glide or dive	162 m.p.h.	(141 knots) True Ind.		
	Seaplane with item 204(c) installed:				
	Level flight or climb	120 m.p.h.	(104 knots) True Ind.		
	Glide or dive	137 m.p.h.	(119 knots) True Ind.		
C.G. Range	Landplane: (+14.2) to (+17.7) at 1650 lb.				
	(+10.2) to (+17.7) at 1230 lb. or less				
	Seaplane: (+14.45) to (+17.7) at 1732 lb.				
	(+11.9) to (+17.7) at 1450 lb. or less				
	Straight line variation between points given.				
Empty wt.					
C.G. Range	None				
Maximum Weight	Landplane:	1650 lb.			
	Seaplane:	1732 lb.			
No. of Seats	2 (1 at +12, 1 at +42).				
Maximum Baggage	50 lbs. at +64.5				
Fuel Capacity	39 gal. at +24.5				
Oil Capacity	8 qt. at -36				
Control Surface Movements	Elevator	Up	24 <sup>0</sup>	Down	24 <sup>0</sup>
	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	37.5 <sup>0</sup>
	Ailerons	Up	27.5 <sup>0</sup>	Down	19 <sup>0</sup>
	Rudder	Right	25 <sup>0</sup>	Left	25 <sup>0</sup>
	Serial Nos. Eligible	2 and up.			
Required Equipment (Items)	Landplane: 11(a), 102(c) or (d), 118(a) or (b), 119, 120(a) or (b), 201(b), 202(f). Seaplane: 11(a), 102(c) or (d), 118(a) or (b), 119, 120(a) or (b), 204(c), 205(a), 205(c)				

XII - Model 7HC, 3 PCL-SM (Normal Category), Approved August 6, 1959

Model 7HC is generally similar to the 7GC except for modified fuselage structure as required for additional rear seat capacity, tricycle type gear and control wheel type system in front seat. See NOTE 9 for conversion to Wide Track Main Gear.

Engine	Lycoming O-290-D2B			
Fuel	80 minimum grade aviation gasoline			
Engine Limits	Takeoff (one minute) 2800 r.p.m. (140 hp.) Maximum continuous 2600 r.p.m. (135 hp.)			
Airspeed Limits	Landplane: Level flight or climb	120 m.p.h. (104 knots)	True Ind.	
	Glide or dive	162 m.p.h. (141 knots)	True Ind.	
	Seaplane with item 204(c) installed:			
	Level flight or climb	120 m.p.h. (104 knots)	True Ind.	
	Glide or dive	137 m.p.h. (119 knots)	True Ind.	
C.G. Range	Landplane: (+14.2) to (+17.7) at 1650 lb. (+10.4) to (+17.7) at 1250 lb. or less Seaplane: (+14.45) to (+17.7) at 1732 lb. (+11.9) to (+17.7) at 1450 lb. or less Straight line variation between points given.			
Empty wt.	None			
C.G. Range	None			
Maximum Weight	Landplane:	1650 lb.		
	Seaplane:	1732 lb.		
No. of Seats	3 (front adjustable from +13.5 to +14.5, rear adjustable from +44 to +51).			
Maximum Baggage	50 lbs. at +64.5			
Fuel Capacity	39 gal. at +24.5			
Oil Capacity	8 qt. at -36			
Control Surface Movements	Elevator	Up	24 <sup>0</sup>	Down 24 <sup>0</sup>
	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down 37.5 <sup>0</sup>
	Ailerons	Up	27.5 <sup>0</sup>	Down 19 <sup>0</sup>
	Rudder	Right	25 <sup>0</sup>	Left 25 <sup>0</sup>
Serial Nos. Eligible	2 and up.			
Required Equipment (Items)	Landplane: (S/N's 7HC-1 thru 7HC-32), 11(a), 102(c) or (d), 118(a) or (b), 119, 120(a) or (b), 201(b), 209 (see NOTE 9). (S/N's 7HC-33 and up), 11(a), 102(c) or (d), 118(a) or (b), 119, 120(a), 201(e), 209, 210(b) Seaplane: 11(a), 102(c) or (d), 118(a) or (b), 119, 120(a) or (b), 204(c), 205(a), 205(c).			

XIII - Model 7GCA, 2 PCLM (Normal Category), Approved November 17, 1959

Model 7GCA is generally similar to the 7GC except for modifications as required for installation of Lycoming O-320-A2B engine)

Engine	Lycoming O-320-A2B			
Fuel	80/87 minimum grade aviation gasoline			
Engine Limits	For all operations, 2700 r.p.m. (150 hp.)			
Airspeed Limits	Level flight or climb	120 m.p.h. (104 knots)	True Ind.	
	Glide or dive	162 m.p.h. (141 knots)	True Ind.	
C.G. Range	(+14.2) to (+17.7) at 1650 lb. (+10.2) to (+17.7) at 1230 lb. or less Straight line variation between points given.			
Empty wt.	None			
C.G. Range	None			
Maximum Weight	1650 lb.			
No. of Seats	2 (front adjustable from +13.5 to +14.5, rear at +44)			
Maximum Baggage	50 lbs. at +64.5			
Fuel Capacity	39 gal. at +24.5			
Oil Capacity	8 qt. at -36			



Control Surface Movements	Elevator	Up	24 <sup>o</sup>	Down	24 <sup>o</sup>
	Elevator Trim Tab	Up	17.5 <sup>o</sup>	Down	37.5 <sup>o</sup>
	Ailerons	Up	27.5 <sup>o</sup>	Down	19 <sup>o</sup>
	Rudder	Right	25 <sup>o</sup>	Left	25 <sup>o</sup>
Serial Nos. Eligible	120 and up.				
Required Equipment	Items 11(b), 102(c) or (d), 118(a) or (b), 119, 120(a) or (b), 201(a) or (b), 202(f)				

XIV - Model 7JC, 2 PCLM (Normal Category), Approved February 24, 1960

Model 7JC is generally similar to the 7EC except for modified fuselage structure as required for installation of tricycle gear with single gear aft. See Note 8 for conversion to Model 7EC.

Engine	Continental C90-12F				
Fuel	80/87 minimum grade aviation gasoline				
Engine Limits	For all operations, 2475 r.p.m. (90 hp.)				
Airspeed Limits	Level flight or climb	100 m.p.h. ( 87 knots)	True Ind.		
	Glide or dive	135 m.p.h. (117 knots)	True Ind.		
Propeller Limits	Static rpm at maximum permissible throttle setting:				
(For fixed pitch wood propeller)	Not over 2350, not under 2125. No additional tolerance permitted.				
	Diameter: not over 72 in., not under 70 in.				
C.G. Range	(+15.5) to (+19.2) at 1450 lb.				
	(+11.3) to (+19.2) at 1200 lb. or less				
	Straight line variation between points given.				
Empty wt.					
C.G. Range	None				
Maximum Weight	1450 lb.				
No. of Seats	2 (front adjustable from +11.3 to +13.3, rear at +39.7)				
Maximum Baggage	50 lbs. at +64.				
Fuel Capacity	26 gal. (two 13 gal. wing tanks at +24)				
Oil Capacity	5 qt. at -35.				
Control Surface Movements	Elevator	Up	24 <sup>o</sup>	Down	24 <sup>o</sup>
	Elevator Trim Tab	Up	17.5 <sup>o</sup>	Down	37.5 <sup>o</sup>
	Ailerons	Up	28.5 <sup>o</sup>	Down	18 <sup>o</sup>
	Rudder	Right	25 <sup>o</sup>	Left	25 <sup>o</sup>
Serial Nos. Eligible	1 and up.				
Required Equipment	Items 1, 102(b), 103(b), 105, 116, 201(b), 211				

XV - Model 7GCB, 2 PCL-SM (Normal Category), Approved April 28, 1960

For operation in the acrobatic category, see NOTES 2(b)(12) and 10. Model 7GCB is generally similar to the 7GCA except for modified wing and fuselage structure as required for addition of wing flaps, increased wing area and increased rear seat weight limit.

Engine	Lycoming O-320-A2B				
Fuel	80/87 minimum grade aviation gasoline				
Engine Limits	For all operations 2700 r.p.m. (150 hp.)				
Airspeed Limits	Landplane: Level flight or climb	120 m.p.h. (104 knots)	True Ind.		
	Glide or dive	162 m.p.h. (141 knots)	True Ind.		
	Flaps extended	90 m.p.h. ( 78 knots)	True Ind.		
	Seaplane with item 204(c) installed:				
	Level flight or climb	120 m.p.h. (104 knots)	True Ind.		
	Glide or dive	137 m.p.h. (119 knots)	True Ind.		
	Flaps extended	90 m.p.h. ( 78 knots)	True Ind.		
C.G. Range	Landplane: (+15.0) to (+19.2) at 1650 lb.				
	(+12.26) to (+19.2) at 1325 lb. or less				
	Seaplane: (+16.2) to (+19.2) at 1732 lb.				
	(+13.0) to (+19.2) at 1500 lb. or less				
	When performing acrobatic maneuvers, the C.G. range shall be limited to:				
	(+15.0) to (+17.1) at 1650 lb.				
	(+12.26) to (+17.1) at 1325 lb. or less				

With increased flap travel (Champion Installation dwg. No. 7-1131) and installation of horizontal tail surface per Champion dwg. No. 4-1410, 4-1411 and 4-1412:

Landplane: (+14.2) to (+19.2) at 1732 lb.

(+10.5) to (+19.2) at 1325 lb. or less

When performing acrobatic maneuvers, the C.G. range shall be limited to:

(+14.2) to (+17.1) at 1650 lb.

(+10.5) to (+17.1) at 1325 lb. or less

Straight line variation between points given.

Empty wt.

C.G. Range None

Maximum Weight Landplane: 1650 lb.  
Seaplane: 1732 lb.

No. of Seats 2 (front adjustable from +13.5 to +14.5, rear fixed seat at +42.5, or rear adjustable from +44 to +51). (This rear seat limit is 250 lb.)

Maximum Baggage 50 lbs. at +64.5

Fuel Capacity 39 gal. at +24.5

Oil Capacity 8 qt. at -36

Control Surface

Movements

Elevator Up 28<sup>0</sup> Down 24<sup>0</sup>

Elevator Trim Tab Up 17.5<sup>0</sup> Down 44<sup>0</sup>

Ailerons Up 27.5<sup>0</sup> Down 19<sup>0</sup>

Flaps Up 0<sup>0</sup> Down 21<sup>0</sup>

(with flap control system installed per Champion dwg. 7-1131 and horizontal tail surfaces per Champion dwg. 4-1410, 4-1411, 4-1412)

Rudder Up 0<sup>0</sup> Down 35<sup>0</sup>

Right 25<sup>0</sup> Left 25<sup>0</sup>

Serial Nos. Eligible 1 and up.

Required Equipment Landplane: 11(b), 102(d), 118(b), 119, 120(b), 201(a) or (b), 202  
(Items) Seaplane: 11(b), 102(d), 118(b), 119, 120(b), 204(c), 205(a) and (c) or (c) and (d)

XVI - Model 7KC, 2 PCLM (Normal Category), Approved January 10, 1961

Model 7KC is generally similar to the 7GCA except for modifications as required for reduced wing area, minor fairing, cabin interior changes and controls in front seat only)

Engine Lycoming O-320-A2B

Fuel 80/87 minimum grade aviation gasoline

Engine Limits For all operations, 2700 r.p.m. (150 hp.)

Airspeed Limits Level flight or climb 120 m.p.h. (104 knots) True Ind.  
Glide or dive 162 m.p.h. (141 knots) True Ind.

C.G. Range (+14.2) to (+18.6) at 1650 lb.  
(+11.9) to (+18.6) at 1406 lb. or less  
Straight line variation between points given.

Empty wt.

C.G. Range None

Maximum Weight 1650 lb.

No. of Seats 2 (front adjustable from +12.6 to +13.8, rear adjustable from +41.8 to +43)

Maximum Baggage 50 lbs. at +64.5

Fuel Capacity 39 gal. at +24.5

Oil Capacity 8 qt. at -36

Control Surface

Movements

Elevator Up 28<sup>0</sup> Down 24<sup>0</sup>

Elevator Trim Tab Up 17.5<sup>0</sup> Down 44<sup>0</sup>

Ailerons Up 27.5<sup>0</sup> Down 19<sup>0</sup>

Rudder Right 25<sup>0</sup> Left 25<sup>0</sup>

Serial Nos. Eligible 1 and up.

Required Equipment Items 11(b), 102(d), 118(b), 119, 120(b), 201(a) or (b), 202



XVII - Model 7GCBA, 2 PCLM (Restricted Agricultural Category Only), Approved February 2, 1962

Engine	Lycoming O-320-A2B
Fuel	80/87 minimum grade aviation gasoline
Engine Limits	For all operations, 2700 r.p.m. (150 hp.)
Airspeed Limits	Level flight or climb 115 m.p.h. (100 knots) True Ind. Glide or dive 121 m.p.h. (105 knots) True Ind. Flaps extended 90 m.p.h. ( 78 knots) True Ind.
C.G. Range	(+15.0) to (+22.5) at 2400 lb. (+10.5) to (+22.5) at 1325 lb. or less Straight line variation between points given.
Empty wt.	
C.G. Range	None
Maximum Weight	2400 lb. Any increase in maximum weight to be determined in accordance with CAM 8.10-3(e)
No. of Seats	1 at +12
Maximum Baggage	None
Hopper Load	Maximum structural compliance with CAM 8 is 900 lb. (see NOTE 2(e)).
Fuel Capacity	39 gal. at +24.5
Oil Capacity	8 qt. at -36
Control Surface Movements	Elevator Up 28 <sup>0</sup> Down 24 <sup>0</sup> Elevator Trim Tab Up 17.5 <sup>0</sup> Down 44 <sup>0</sup> Ailerons Up 27.5 <sup>0</sup> Down 19 <sup>0</sup> Flaps Up 0 <sup>0</sup> Down 21 <sup>0</sup> Rudder Right 25 <sup>0</sup> Left 25 <sup>0</sup>
Serial Nos. Eligible	1 and up.
Required Equipment	Items 11(b), 102(d), 118(b), 119, 120(b), 201(b), 202 and 620(a), (b), (c) or (d)

XVIII - Model 7ECA, 2 PCL-SM (Normal or Acrobatic Category), Approved August 5, 1964

For operation in the Acrobatic Category, see NOTES 2(b)(13) and 10. Model 7ECA is generally similar to the 7GC except for modifications required for installation of the approved engines and modified vertical tail assembly, windshield contour, rear seat windows and wide track main gear. See Item 621 for applicable horizontal tail surfaces. See NOTE 15 concerning optional C.G. range and maximum weight.

Engine	Continental O-200-A (see Item 122, 124 and 125 for optional engines)
Fuel	80/87 minimum grade aviation gasoline
Engine Limits	For all operations, 2750 r.p.m. (100 hp.)
Airspeed Limits	Landplane: Level flight or climb 120 m.p.h. (104 knots) True Ind. Glide or dive 162 m.p.h. (141 knots) True Ind. Seaplane with Item 204(c) installed: Level flight or climb 114 m.p.h. ( 99 knots) True Ind. Glide or dive 137 m.p.h. (119 knots) True Ind.
C.G. Range	Landplane: (+14.2) to (+19.2) at 1650 lb. (+10.2) to (+19.2) at 1325 lb. or less When performing acrobatic maneuvers, the C.G. range shall be limited to: (+14.2) to (+17.3) at 1650 lb. (+10.5) to (+17.3) at 1325 lb. or less Seaplane: (+14.2) to (+19.2) at 1732 lb. (+10.5) to (+19.2) at 1407 lb. or less Straight line variation between points given. (See NOTE 15 for optional CG Range)
Empty wt.	
C.G. Range	None
Maximum Weight	Landplane: 1650 lb. (See NOTE 15 for optional weight) Seaplane: 1732 lb.
No. of Seats	2 (1 at +12, 1 at +42) 2 (1 at +11 to +14 with Item 404(n), 1 at +43 with Item 404(o) or (p))
Maximum Baggage	100 lbs. at +69

Fuel Capacity	39 gal. at +24.5 (Item 119) 36 gal. at +24.5 (Item 123(a)) (see NOTE 1 for Weight of Unusable fuel)																				
Oil Capacity	6 qt. at -44																				
Control Surface Movements	<table> <tr> <td>Elevator</td> <td>Up</td> <td>24<sup>0</sup></td> <td>Down</td> <td>24<sup>0</sup></td> </tr> <tr> <td>Elevator Trim Tab</td> <td>Up</td> <td>17.5<sup>0</sup></td> <td>Down</td> <td>37.5<sup>0</sup></td> </tr> <tr> <td>Ailerons</td> <td>Up</td> <td>27.5<sup>0</sup></td> <td>Down</td> <td>19<sup>0</sup></td> </tr> <tr> <td>Rudder</td> <td>Right</td> <td>25<sup>0</sup></td> <td>Left</td> <td>25<sup>0</sup></td> </tr> </table>	Elevator	Up	24 <sup>0</sup>	Down	24 <sup>0</sup>	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	37.5 <sup>0</sup>	Ailerons	Up	27.5 <sup>0</sup>	Down	19 <sup>0</sup>	Rudder	Right	25 <sup>0</sup>	Left	25 <sup>0</sup>
Elevator	Up	24 <sup>0</sup>	Down	24 <sup>0</sup>																	
Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	37.5 <sup>0</sup>																	
Ailerons	Up	27.5 <sup>0</sup>	Down	19 <sup>0</sup>																	
Rudder	Right	25 <sup>0</sup>	Left	25 <sup>0</sup>																	
Serial Nos. Eligible	1 thru 722, 725, 723-70, 724-70, 726-70 thru 785-70, 786-71 thru 792-71, 794-71 thru 812-71, 793-72, 813-72 thru 888-72, 889-73 thru 984-73, 985-74 thru 1059-74, 1060-75 thru 1125-75, 1126-76 thru 1180-76, 1181-77 thru 1223-77, 1224-78 thru 1278-78, 1279-79 thru 1328-79, 1329-80 thru 1352-80, 1353-84, 1355-95 and up.																				
Required Equipment (Items)	Landplane: 15(a), 102(e), 103(e) or (i), 117(d), 116 or 119 or 123(a), 201(d) or (h) or (i) or (l), 202 Seaplane: 15(a), 102(e), 103(e) or (i), 117(d), 116 or 119 or 123(a), 204(c), 205(a) or 205(d).																				

XIX - Model 7GCAA, 2 PCLM (Normal or Acrobatic Category), Approved July 30, 1965

For operation in the Acrobatic Category, see NOTES 2(b)(13) and 10. Model 7GCAA is generally similar to the 7ECA except for the installation of the Model 7GCB engine mount and engine, revised cowling and minor equipment and trim changes. See NOTE 15 concerning optional C.G. range and maximum weight.

Engine	Lycoming O-320-A2B or O-320-C2B or O-320-A2D (see Item 125 and 126 for optional engines)																									
Fuel	80/87 minimum grade aviation gasoline																									
Engine Limits	For all operations, 2700 r.p.m. (150 hp.)																									
Airspeed Limits	Level flight or climb 120 m.p.h. (104 knots) True Ind. Glide or dive 162 m.p.h. (141 knots) True Ind.																									
C.G. Range	(+14.2) to (+18.2) at 1650 lb. (+10.5) to (+18.2) at 1325 lb. or less When performing acrobatic maneuvers, the C.G. range shall be limited to: (+14.2) to (+16.0) at 1650 lb. (+10.5) to (+16.0) at 1325 lb. or less Straight line variation between points given. (See NOTE 15 for optional CG Range)																									
Empty wt. C.G. Range	None																									
Maximum Weight	1650 lb. (See NOTE 15 for optional weight)																									
No. of Seats	2 (1 at +12, 1 at +42) 2 (1 at +11 to +14 with Item 404(n), 1 at +43 with Item 404(o) or (p))																									
Maximum Baggage	100 lbs. at +69																									
Fuel Capacity	39 gal. at +24.5 (Item 119) 36 gal. at +24.5 (Item 123(a)) (see NOTE 1 for Weight of Unusable fuel)																									
Oil Capacity	8 qt. at -36																									
Control Surface Movements	<table> <tr> <td>Elevator</td> <td>Up</td> <td>28<sup>0</sup></td> <td>Down</td> <td>24<sup>0</sup></td> </tr> <tr> <td>(with Items 404(d) (e) installed)</td> <td>Up</td> <td>24<sup>0</sup></td> <td>Down</td> <td>24<sup>0</sup></td> </tr> <tr> <td>Elevator Trim Tab</td> <td>Up</td> <td>17.5<sup>0</sup></td> <td>Down</td> <td>44<sup>0</sup></td> </tr> <tr> <td>Ailerons</td> <td>Up</td> <td>27.5<sup>0</sup></td> <td>Down</td> <td>19<sup>0</sup></td> </tr> <tr> <td>Rudder</td> <td>Right</td> <td>25<sup>0</sup></td> <td>Left</td> <td>25<sup>0</sup></td> </tr> </table>	Elevator	Up	28 <sup>0</sup>	Down	24 <sup>0</sup>	(with Items 404(d) (e) installed)	Up	24 <sup>0</sup>	Down	24 <sup>0</sup>	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	44 <sup>0</sup>	Ailerons	Up	27.5 <sup>0</sup>	Down	19 <sup>0</sup>	Rudder	Right	25 <sup>0</sup>	Left	25 <sup>0</sup>
Elevator	Up	28 <sup>0</sup>	Down	24 <sup>0</sup>																						
(with Items 404(d) (e) installed)	Up	24 <sup>0</sup>	Down	24 <sup>0</sup>																						
Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	44 <sup>0</sup>																						
Ailerons	Up	27.5 <sup>0</sup>	Down	19 <sup>0</sup>																						
Rudder	Right	25 <sup>0</sup>	Left	25 <sup>0</sup>																						
Serial Nos. Eligible	1 thru 198, 200 thru 204, 276, 205-70 thru 229-70, 199-71, 203-71, 231-72 thru 242-72, 244-72 thru 251-72, 243-73, 252-73 thru 275-73, 277-73 thru 279-73, 280-74 thru 304-74, 305-75 thru 323-75, 324-76 thru 334-76, 335-77 thru 348-77, 349-78 thru 370-78, 371-79 thru 389-79, 390-80 thru 396-80, 400-97 and up.																									
Required Equipment	Items 16(a) or 20(a), 102(i) or (j), 103(f), (h) or (i), 117(e), 118(c), 119 or 123(a), 201(d) or (h) or (i) or (l), 202																									



XX - Model 7GCBC, 2 PCL-SM (Normal or Acrobatic Category), Approved December 3, 1965

Model 7GCBC is generally similar to the 7GCAA except for the installation of the Model 7GCB wings, wingstruts, and flap system. See Item 621 for applicable horizontal tail surfaces

See NOTE 10 for Acrobatic Operation.

See NOTE 13 for optional C. G. ranges and maximum weights.

Engine	Lycoming O-320-A2B or O-320-C2B or O-320-A2D (see Items 122, 125, 126, and 127 for optional engines)
Fuel	80/87 minimum grade aviation gasoline
Engine Limits	For all operations, 2700 r.p.m. (150 hp.) (See NOTE 11 for additional limitations)
Airspeed Limits	Landplane: Level flight or climb 120 m.p.h. (104 knots) True Ind. Glide or dive 162 m.p.h. (141 knots) True Ind. Flaps extended 90 m.p.h. ( 78 knots) True Ind. Seaplane with Item 204(c) installed: Level flight or climb 114 m.p.h. ( 99 knots) CAS Glide or dive 137 m.p.h. (119 knots) CAS Flaps extended 90 m.p.h. ( 78 knots) CAS Seaplane with Item 204(d) installed: Level flight or climb 110 m.p.h. ( 92 knots) CAS Glide or dive 148 m.p.h. (128 knots) CAS Flaps extended 90 m.p.h. ( 78 knots) CAS
C.G. Range	Landplane: (+14.2) to (+19.2) at 1650 lb. (+10.5) to (+19.2) at 1325 lb. or less When performing acrobatic maneuvers, the C.G. range shall be limited to: (+14.2) to (+16.3) at 1650 lb. (+10.5) to (+16.3) at 1350 lb. or less Seaplane with Item 204(c) installed:: (+14.8) to (+19.2) at 1732 lb. (+11.5) to (+19.2) at 1500 lb. or less Seaplane with Item 204(d) installed:: (+13.8) to (+18.4) at 1800 lb. (+11.5) to (+18.4) at 1590 lb. or less Skiplane with Item 203(k) installed:: (+14.2) to (+16.8) at 1650 lb. (+10.5) to (+16.8) at 1325 lb. or less Skiplane with Item 203(l) installed:: (+14.2) to (+19.2) at 1650 lb. (+10.5) to (+19.2) at 1325 lb. or less Straight line variation between points given. (See NOTE 13 for optional CG Range)
Empty wt.	
C.G. Range	None
Maximum Weight	Landplane - Skiplane: 1650 lb. (See NOTE 13 for optional weight) Seaplane with Item 204(c): 1732 lb. Seaplane with Item 204(d): 1800 lb.
No. of Seats	2 (1 at +12, 1 at +42) 2 (1 at +11 to +14 with Item 404(n), 1 at +43 with Item 404(o) or (p))
Maximum Baggage	100 lbs. at +69
Fuel Capacity	39 gal. at +24.5 (Item 119) 36 gal. at +24.5 (Item 123(a)) (see NOTE 1 for Weight of Unusable fuel)
Oil Capacity	8 qt. at -36
Control Surface Movements	Elevator Up 28 <sup>0</sup> Down 24 <sup>0</sup> with Item 404(d) and (e) Up 24 <sup>0</sup> Down 24 <sup>0</sup> Elevator Trim Tab Up 17.5 <sup>0</sup> Down 44 <sup>0</sup> Seaplane with Item 204(c) Up 12 <sup>0</sup> Down 44 <sup>0</sup> Ailerons Up 27.5 <sup>0</sup> Down 19 <sup>0</sup> Flaps Up 0 <sup>0</sup> Down 35 <sup>0</sup> Rudder Right 25 <sup>0</sup> Left 25 <sup>0</sup>
Serial Nos. Eligible	1 thru 201, 205, 207, 202-70, 203-70, 204-70, 206-70, 208-70 thru 294-70, 295-71 thru 318-71, 319-72 thru 330-72, 332-72 thru 416-72, 331-73, 417-73 thru 603-73, 604-74 thru 773-74, 774-75 thru 886-75, 887-76 thru 956-76, 957-77 thru 1005-77, 1006-78 thru 1065-78, 1066-79 thru 1177-79, 1178-80 thru 1214-80, 1200-94 and up.

Required Equipment (Items)	Landplane: 16(a) or 20(a), 102(f) or (j), 103(f), (h) or (i), 117(e), 118(c), 119 or 123(a), 201(d) or (h) or (i) or (l), 202
	Seaplane: 16(a) or 18(a) or 19(a), 102(f) or (j), 103(f), (h) or (i), 117(e), 118(c), 119 or 123(a), 204(c) or (d), 205(d).
	Skiplane: 16(a) or 20(a), 102(f) or (j), 103(f), (h) or (i), 117(e), 118(c), 119 or 123(a), 203(k) or (l).

XXI - Model 7KCAB, 2 PCLM (Normal or Acrobatic Category), Approved December 21, 1966

For operation in the Acrobatic Category, see NOTES 2(b)(15) and 10. Model 7KCAB is generally similar to the 7GCAA except for the installation of fuel injected engine, revised fuel system and modified oil system for limited inverted operation. See Item 621 for applicable horizontal tail surfaces.

See NOTE 15 concerning optional C.G. range and maximum weight.

Engine	Lycoming IO-320-E2A or IO-320-E2B or AEIO-320-E2B (IO-320-E2A and -E2B must be modified per STC SE7CE)			
Fuel	80/87 minimum grade aviation gasoline			
Engine Limits	For all operations, 2700 r.p.m. (150 hp.)			
Airspeed Limits	Level flight or climb	120 m.p.h. (104 knots)	True Ind.	
	Glide or dive	162 m.p.h. (141 knots)	True Ind.	
C.G. Range	(+14.2) to (+18.2) at 1650 lb.			
	(+10.5) to (+18.2) at 1325 lb. or less			
	When performing acrobatic maneuvers, the C.G. range shall be limited to:			
	(+14.2) to (+16.0) at 1650 lb.			
	(+10.5) to (+16.0) at 1325 lb. or less			
	Straight line variation between points given. (See NOTE 15 for optional CG Range)			
Empty wt.				
C.G. Range	None			
Maximum Weight	1650 lb. (See NOTE 15 for optional weight)			
No. of Seats	2 (1 at +12, 1 at +42)			
	2 (1 at +11 to +14 with Item 404(n), 1 at +43 with Item 404(o) or (p))			
Maximum Baggage	100 lbs. at +69			
Fuel Capacity	39 gal. at +24.5 (Item 119)			
	36 gal. at +24.5 (Item 123(a)) (see NOTE 1 for Weight of Unusable fuel)			
Oil Capacity	8 qt. at -36			
Control Surface Movements	Elevator	Up	28 <sup>0</sup>	Down 24 <sup>0</sup>
	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down 44 <sup>0</sup>
	Ailerons	Up	27.5 <sup>0</sup>	Down 19 <sup>0</sup>
	Rudder	Right	25 <sup>0</sup>	Left 25 <sup>0</sup>
Serial Nos. Eligible	1 thru 208, 210 thru 226, 270, 271, 209-70, 227-70 thru 257-70, 266-70 thru 269-70, 272-70 thru 287-72, 258-71 thru 265-71, 288-71 thru 290-71, 291-72 thru 335-72, 336-73 thru 404-73, 405-74 thru 486-74, 487-75 thru 550-75, 551-76 thru 597-76, 598-77 thru 617-77.			
Required Equipment	Items 16(a) or 20(a), 102(h) or (k), 103(f), (h) or (i), 117(g), 118(d), 119 or 123(a), 201(d) or (h) or (i) or (l), 202			

XXII - Model 7ACA, 2 PCLM (Normal Category), Approved April 30, 1971

Engine	Franklin 2A-120A or 2A-120B			
Fuel	100/120 minimum grade aviation gasoline			
Engine Limits	For all operations, 3200 r.p.m. (60 hp.)			
Airspeed Limits	Level flight or climb	95 m.p.h. (83 knots)	True Ind.	
	Glide or dive	129 m.p.h. (112 knots)	True Ind.	
Propeller Limits (For fixed pitch wood propeller)	See Item 21 - Propeller and Propeller Accessories  Diameter: not over 60 in., not under 58.5 in.			
C.G. Range	(+10.9) to (+21.5)			
Empty wt.				
C.G. Range	None			
Maximum Weight	1220 lb.			



No. of Seats	2 (1 at +11.5, 1 at +42)				
Maximum Baggage	40 lbs. at +64. See NOTE 2(a)(4) for baggage placard.				
Fuel Capacity	13 gal. at -15.				
Oil Capacity	2.5 qt. at -46.				
Control Surface Movements	Elevator	Up	25 <sup>0</sup>	Down	15.5 <sup>0</sup>
	Elevator Trim Tab	Up	20 <sup>0</sup>	Down	34.5 <sup>0</sup>
	Ailerons	Up	28.5 <sup>0</sup>	Down	18 <sup>0</sup>
	Rudder	Right	24 <sup>0</sup>	Left	25 <sup>0</sup>
Serial Nos. Eligible	1-71 thru 23-71, 25-71 thru 28-71, 24-72, 29-72 thru 69-72, 70-73 and up.				
Required Equipment	Items 21(a) or (b), 201(j), (k) or (m), 202(b) or (c), 102(i), 103(g)				

#### Specifications Pertinent to All Models

Datum	Wing leading edge.
Leveling Means	Any portion of the cabin floor to level laterally and longitudinally. (Also see NOTE 6)
Certification Basis	1) Part 4(a) of the Civil Air Regulations effective as amended to April 7, 1950, except paragraph 4a.532(m) (for all models except 7GCBA).
	2) Paragraphs 23.25 and 23.959 of the Federal Aviation Regulations dated February 1, 1965 for Models 7ECA, 7GCAA, 7GCBC, and 7KCAB.
	3) Part 8.10(b) of the Civil Air Regulations effective October 11, 1950 (Model 7GCBA); and FAR 36, appendix G for the Models 7ECA (with Lycoming O-235-K2C engine), 7GCAA, 7GCBC (S/N 1198-80 and up), and 7KCAB.
	4) In addition to the Part 4a certification basis contained in first paragraph above, the model 7EC certification basis for serial numbers 1000-2006 & up includes the additional regulations below: FAR 23.961; 23.971; 23.1351 as amended by Amendment 23-6. FAR 23.21; 23.23; 23.25; 23.29; 23.45; 23.49; 23.51; 23.53; 23.63; 23.65; 23.69; 23.71; 23.73; 23.75; 23.77; 23.141; 23.143; 23.145; 23.147; 23.153; 23.155; 23.157; 23.161; 23.171; 23.173; 23.175; 23.177; 23.179; 23.181; 23.201; 23.203; 23.207; 23.221; 23.231; 23.233; 23.235; 23.251; 23.477; 23.479; 23.481; 23.483; 23.485; 23.493; 23.497; 23.901; 23.903; 23.905; 23.907; 23.925; 23.943; 23.951; 23.955; 23.957; 23.959; 23.963; 23.965; 23.967; 23.969; 23.973; 23.975; 23.977; 23.993; 23.995; 23.997; 23.999; 23.1041; 23.1043; 23.1047; 23.1123; 23.1301; 23.1303; 23.1305; 23.1321; 23.1323; 23.1325; 23.1327; 23.1337; 23.1353; 23.1357; 23.1359; 23.1361; 23.1365; 23.1367; 23.1381; 23.1385; 23.1387; 23.1389; 23.1391; 23.1393; 23.1395; 23.1397; 23.1401; 23.1431; 23.1529; 23.1581; 23.1583; 23.1585; 23.1587; 23.1589 as amended by Amendment 23-55. FAR 36 dated December 1, 1969, as amended by amendments 36-1 through 36-28. (for model 7EC S/N 1000-2006 & up)
	5) In addition to the Part 4a certification basis contained in the first paragraph above and the Part 23 / Part 36 certification basis contained in the fourth paragraph above; the model 7EC certification basis for those airplanes equipped with Teledyne Continental Motors model O-200-D engines; serial numbers 1029-2009 & up includes the additional regulations below: FAR 23.1501; 23.1521; 23.1541; 23.1549; 23.1583 as amended by Amendment 23-59. (For model 7EC equipped with TCM model O-200-D engine S/N 1029-2009 & up)
	6) The certification basis for model 7GCBC, for acrobatic maneuvers, effective with serial number 1360 and up, and with engine option item 126; includes the certification basis contained in first two paragraphs above. In addition, the certification basis includes the regulations below: FAR 23.321, 23.331; 23.335, 23.369, 23.391, 23.395, 23.397, 23.399, 23.405, 23.407, 23.409, 23.415, 23.421, 23.423, 23.425, 23.427, 23.411, 23.443, 23.445, 23.457, 23.471, 23.473, 23.477, 23.479, 23.481, 23.483, 23.485, 23.493, 23.497 as amended by Amendment 23-6. FAR 23.21; 23.23; 23.25; 23.29; 23.45; 23.49; 23.51; 23.53; 23.63; 23.65; 23.69; 23.71; 23.73; 23.75; 23.77; 23.141; 23.143; 23.145; 23.147; 23.153; 23.155; 23.157; 23.161; 23.171; 23.173; 23.175; 23.177; 23.179; 23.181; 23.201; 23.203; 23.207; 23.221; 23.231; 23.233; 23.235; 23.251; 23.925; 23.1041; 23.1043; 23.1047; 23.1529; 23.1581; 23.1583; 23.1585; 23.1587; 23.1589 as amended by Amendment 23-55. FAR 36 dated December 1, 1969, as amended by amendments 36-1 through 36-28.

7) The certification basis for model 7GCBC, in the Normal category, effective with serial number 1360 and up, and with engine options item 126 and 127; includes the certification basis in the paragraph above with the exception of regulations 4a.75, 4a.76, and 4a.79 through 4a.93. In addition, the certification basis includes regulations: FAR 23.333, 23.337, 23.341, 23.345, 23.347, 23.349, 23.351 as amended by amendment 23-6.

Approved Type Certificate No. 759 issued October 18, 1945.

Production Basis American Champion Aircraft Production Limitation Record 333CE, dated July 21, 1997. Production authorized Aug. 30, 1994 (7GCBC), Dec. 26, 1995 (7ECA), July 21, 1997 (7GCAA), and March 26, 2007 (7EC S/N 1000-2006 & up)

Equipment A plus (+) or minus (-) sign preceding the weight of an optional item indicates the 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 (\*). This symbol denotes that approval has been obtained by someone other than the aircraft manufacturer. An item so marked may not have been manufactured under an FAA monitored or approved quality control system; and, therefore, conformity must be determined if the item is not identified by a Form FAA-186, PMA, or other evidence of FAA production approval.

#### Propeller and Propeller Accessories

- |     |  |        |                |
|-----|--|--------|----------------|
| 1.  | Wood Propellers - fixed pitch<br>Models 7AC, 7BCM, 7CCM, 7DC<br>Models 7EC, 7FC, 7JC   | 10 lb. |                |
| (a) | Sensenich 72C-44 (Models 7AC and S7AC)<br>Sensenich 72CK (Model 7BCM)<br>Sensenich 72CK-44, -45, -46 (Models 7DC, S7DC)<br>Sensenich 72GK-48, -49, -50 (Models 7CCM, 7EC, S7CCM, 7FC, 7JC)   |        | (-52)<br>(-54) |
| (b) | Flottorp 72A50, 52 (Models 7CCM, S7CCM, 7EC, 7FC, 7JC)   |        |                |
| (c) | Any other approved fixed pitch wood propeller which is eligible for the engine power and speed and which meets the diameter and static r.p.m. limits specified under "Propeller Limits" for the pertinent model.                               |        |                |
| 2.  | McCauley 1A90 with following limits:   | 26 lb. | (-52)          |
| (a) | (7AC and S7AC)<br>Static r.p.m. at maximum permissible throttle setting:<br>Not over 2250 (for 7AC), 2200 (for S7AC), not under 2100 (for 7AC or S7AC).<br>No additional tolerance permitted.<br>Diameter: not over 71 in., not under 69.5 in. |        |                |
| (b) | (7BCM only)<br>Static r.p.m. at maximum permissible throttle setting:<br>Not over 2450, not under 2350. No additional tolerance permitted.<br>Diameter: not over 71 in., not under 69.5 in.  |        |                |
| (c) | (7DC only)<br>Static r.p.m. at maximum permissible throttle setting:<br>Not over 2465, not under 2300. No additional tolerance permitted.<br>Diameter: not over 71 in., not under 69.5 in.   |        |                |
| (d) | (S7DC only)<br>Static r.p.m. at maximum permissible throttle setting:<br>Not over 2440, not under 2290. No additional tolerance permitted.<br>Diameter: not over 74 in., not under 69.5 in.  |        |                |
| 3.  | Omitted.   |        |                |
| 4.  | Spinner  |        |                |
| (a) | (Aeronca dwg. 4-710 and 4-711) Models 7EC and 7FC<br>7AC, 7BCM, 7CCM, 7DC  | 1 lb.  | (-61)          |
| (b) | (Champion dwg. 4-10012) 7EC and 7FC  | 1 lb.  | (-49)          |
| (c) | (Champion dwg. 4-1028) 7EC, 7FC, 7JC<br>7GC, 7HC, 7GCA, 7GCB, 7KC  | 1 lb.  | (-61)          |
| (d) | (Champion dwg. 7-1252) 7ECA (with CMC O-200-A engine)  | 2 lb.  | (-57)          |
| (e) | (Champion dwg. 3-1397) 7GCAA, 7GCBC, 7KCAB   | 2 lb.  | (-59)          |
| (f) | (Champion dwg. 3-1408) 7ECA, 7GCBC (with Lycoming O-235-C1 engine)   | 4 lb.  | (-61)          |
| (g) | (Champion dwg. 3-1618) 7ECA (with Lycoming O-235-K2C engine)   | 4 lb.  | (-61)          |
| 5.  | Hartzell ground adjustable propeller Hb Model HA-12U<br>Blades 7414 to 6814 or 7214M to 6814M. Eligible at diameter and static r.p.m. limits shown for fixed pitch wood.   | 18 lb. | (-52)          |
| 6.  | McCauley 1B90CM with following limitations:<br>Models 7AC, 7BCM, 7CCM, 7DC<br>Models 7EC, 7FC, 7JC   | 21 lb. | (-52)<br>(-54) |

- (a) (Models 7CCM, S7CCM)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2410, not under 2150. No additional tolerance permitted.  
Diameter: not over 73 in., not under 71.5 in.
- (b) (Models 7EC, 7FC, 7JC)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2350, not under 2150. No additional tolerance permitted.  
Diameter: not over 73 in., not under 71.5 in.
- (c) (Model S7EC)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2400, not under 2300. No additional tolerance permitted.  
Diameter: not over 73 in., not under 71.5 in.
- (d) (Model 7AC)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2250, not under 2100.  
Diameter: not over 74 in., not under 72.5 in.
- (e) (Models 7BCM, 7DC)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2450, not under 2200.  
Diameter: not over 71 in., not under 69.5 in.
7. Koppers Aeromatic F200/00-72D 31 lb. (-52)  
Parts List Assembly No. 4324 revised February 21, 1949 (eligible on Models 7AC, S7AC with A-65 engine only). Low pitch setting at 24 in. sta.: 13.5°  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2300, not under 2200. No additional tolerance permitted.  
Diameter: not over 72 in., not under 70.5 in.  
When this propeller is installed, installation and operation must be accomplished in accordance with Kopper's "Installation and Operating Limitations No. 22A."
8. Sensenich M76AK-2 metal propeller with following limitations: 23 lb. (-52)  
Models 7AC, 7BCM, 7CCM, 7DC (-54)  
Models 7EC, 7FC, 7JC
- (a) (Models 7CCM, S7CCM)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2410, not under 2150. No additional tolerance permitted.  
Diameter: not over 74 in., not under 72.5 in.
- (b) (Models 7EC, 7FC, 7JC)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2350, not under 2150. No additional tolerance permitted.  
Diameter: not over 74 in., not under 72.5 in.
- (c) (Model S7EC)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2400, not under 2300. No additional tolerance permitted.  
Diameter: not over 74 in., not under 72.5 in.
- (d) (Models 7AC, 7BCM, 7DC)  
Static r.p.m. and diameter limits same as for fixed pitch wood propeller under applicable.
9. Flottorp controllable, R002 or R003 series hub, blades R003-233-72 29 lb. (-52)  
(Model 7AC only). Pitch at 28.5 in. sta.: low 12.5°, high 19.0°  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2250, not under 2150. No additional tolerance permitted.  
Diameter: not over 72 in., not under 70.5 in.
- \*10. Senenich fixed pitch metal 21 lb. (-52)
- (a) M74CK (Models 7AC, S7AC)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2250, not under 1960.  
Diameter: not over 74 in., not under 72 in.
- (b) M74CK-2 (Model 7BCM)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2450, not under 2200.  
Diameter: not over 72 in., not under 70 in.
11. Sensenich M74DM 30 lb. (-57)
- (a) Models 7GC, 7HC  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2500, not under 2300. No additional tolerance permitted.  
Diameter: not over 74 in., not under 72.5 in.
- (b) Models 7GCA, 7GCB, 7GCBA, 7KC  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2610, not under 2300. No additional tolerance permitted.  
Diameter: not over 74 in., not under 72.5 in.  
(8.00-6 tires required when using this propeller on 7GCBA)
12. McCauley 1A170GM74 33 lb. (-57)

- (a) Models 7GC, 7HC, 7GCA, 7GCB, 7GCBA, 7KC  
Static r.p.m. at maximum permissible throttle setting:  
(No additional tolerance permitted).  
(Models 7GC, 7HC) not over 2500, not under 2300  
(Models 7GCA, 7GCB, 7GCBA) not over 2610, not under 2300  
(Model 7KC) not over 2600, not under 2125  
Diameter: not over 74 in., not under 72.5 in.  
(8.00-6 tires required when using this propeller on 7GCBA)

13. McCauley 1A170GM76 34 lb. (-57)  
 (a) Models 7GC, 7HC, 7GCA  
 Static r.p.m. at maximum permissible throttle setting:  
 (No additional tolerance permitted).  
 (Models 7GC, 7HC) not over 2500, not under 2300  
 (Model 7GCA) not over 2610, not under 2300  
 Diameter: not over 76 in., not under 74.5 in.  
 (7.00-6 tires required when using this propeller on 7GC and 7GCA)
14. McCauley 1C172MCM74 33 lb. (-57)  
 (a) Models 7GCB, 7GCBA, 7KC  
 Static r.p.m. at maximum permissible throttle setting:  
 (No additional tolerance permitted).  
 (Models 7GCB, 7GCBA) not over 2610, not under 2300  
 (Model 7KC) not over 2600, not under 2125  
 Diameter: not over 74 in., not under 72.5 in.  
 (8.00-6 tires required when using this propeller on 7GCBA)
15. McCauley 1A100ACM69 24 lb. (-58)  
 (a) Models 7ECA with Continental O-200-A engine  
 Static r.p.m. at maximum permissible throttle setting:  
 (No additional tolerance permitted).  
 Not over 2600, not under 2400  
 Diameter: not over 69 in., not under 67.5 in.
16. McCauley 1C172AGM72 35 lb. (-58)  
 (a) Models 7GCAA, 7GCBC, 7KCAB, S7GCBC  
 Static r.p.m. at maximum permissible throttle setting:  
 (No additional tolerance permitted).  
 (Models 7GCAA, 7GCBC) not over 2640, not under 2300  
 (Model 7KCAB) not over 2540, not under 2300  
 (Model S7GCBC with Item 204(d) installed) not over 2550, not under 2450  
 (Model 7KCAB with Bendix fuel injector flow setting #2524723-1) not over 2500, not under 2300  
 Diameter: not over 72 in., not under 70.5 in.
17. McCauley 1C90ALM72 or McCauley 1C90CLM72 28 lb. (-58)  
 (a) Models 7ECA and 7GCBC with Lycoming O-235-C1 engine  
 Static r.p.m. at maximum permissible throttle setting:  
 (No additional tolerance permitted).  
 Not over 2425, not under 2225  
 Diameter: not over 72 in., not under 70.5 in.
18. McCauley 1A175GMA80 33 lb. (-58)  
 (a) Model S7GCBC with Item 204(d) installed and O-320 Lycoming engine  
 Static r.p.m. at maximum permissible throttle setting:  
 (No additional tolerance permitted).  
 Not over 2560, not under 2460  
 Diameter: not over 80 in., not under 78.5 in.
19. McCauley 1A172AGM76 35 lb. (-58)  
 (a) Model S7GCBC with Item 204(d) installed and O-320 Lycoming engine  
 Static r.p.m. at maximum permissible throttle setting:  
 (No additional tolerance permitted).  
 Not over 2550, not under 2450  
 Diameter: not over 76 in., not under 74.5 in.
20. Sensenich 74DM6S8-1 37 lb. (-58)  
 (a) Models 7ECA, 7GCAA, 7GCBC, 7KCAB  
 Static r.p.m. at maximum permissible throttle setting:  
 (No additional tolerance permitted).  
 (Model 7GCBC with Item 204(d) installed and with O-320 Lycoming engine) not over 2550, not under 2450  
 Diameter: not over 74 in., not under 72 in.  
 (Models 7ECA, 7GCAA, 7GCBC, 7KCAB) eligible for use only on aircraft equipped with narrow lower end section steel spring gear P/N 7-1404, extended steel gear P/N 4-2038, or aluminum gear P/N 4-2035.  
 (Model 7ECA) eligible only for aircraft equipped with Item 125  
 (Models 7ECA, 7GCAA, 7GCBC) not over 2640, not under 2300  
 (Model 7KCAB) not over 2540, not under 2300  
 (Model 7KCAB with Bendix fuel injector flow setting #2524723-1) not over 2500, not under 2300  
 Diameter: not over 73 in., not under 72 in.
21. Sensenich W60GM Wood Propeller 10 lb. (-58)  
 (a) Model 7ACA with Franklin 2A-120B engine  
 Static r.p.m. at maximum permissible throttle setting:  
 (No additional tolerance permitted).  
 Not over 3050, not under 2750  
 Diameter: not over 60 in., not under 58.5 in.

- (b) Model 7ACA with Franklin 2A-120A engine  
Static r.p.m. at maximum permissible throttle setting:  
(No additional tolerance permitted).  
Not over 3050, not under 2850  
Diameter: not over 60 in., not under 58.5 in.
22. Sensenich 72CK8-0 28 lb. (-58)  
(a) Models 7ECA with Lycoming O-235-K2C engine  
Static r.p.m. at maximum permissible throttle setting:  
(No additional tolerance permitted).  
Not over 2530, not under 2215  
Diameter: not over 72 in., not under 70.0 in.
23. Sensenich 76EM8S8-0 41 lb. (-58)  
(a) Model 7GCBC with Superior O-360-A3A2 or Lycoming O-360-C4P engine  
Static r.p.m. at maximum permissible throttle setting:  
(No additional tolerance permitted).  
Not over 2550, not under 2350  
Diameter: not over 76.25 in., not under 76 in.
24. MT 188 R 135-4G 18 lb. (-58)  
(a) Model 7GCAA with O-360 Superior engine  
Static r.p.m. at maximum permissible throttle setting:  
(No additional tolerance permitted).  
Not over 2500, not under 2300  
Diameter: not over 74 in.,  $\pm 2$  in.
25. Sensenich W69EK-48 10 lb. (-54)  
(a) Model 7EC with O-200-A or O-200-D Continental engine  
Static r.p.m. at maximum permissible throttle setting:  
(No additional tolerance permitted).  
Not over 2500, not under 2300  
Diameter: not over 69 in.,  $\pm 1$  in.

Engine and Engine Accessories - Fuel and Oil Systems

101. Carburetor air heater (7AC, S7AC, 7DC and S7DC) 2 lb. (-42)
102. Carburetor or injector air scoop 2 lb. (-47)  
(a) Models 7AC, 7BCM, 7CCM, 7DC (Aeronca dwg. 4-601)  
(b) Models 7EC, 7FC, 7JC (Champion dwg. 4-877-3 with Marvel - Schebler carburetor, Champion dwg. 4-877-4)  
(c) Models 7GC, 7GCA, and 7HC (Champion dwg. 4-1031)  
(d) Models 7GC, 7GCA, 7GCB, 7GCBA, 7HC, 7KC (Champion dwg. 4-1099)  
(e) Model 7ECA with Continental O-200-A engine (Champion dwg. 4-1377)  
(f) Models 7GCAA, 7GCBC (Champion dwg. 4-1637)  
(g) Models 7ECA and 7GCBC with Lycoming O-235-C1 engine (Champion dwg. 4-1435)  
(h) Model 7KCAB (Champion dwg. 4-1454)  
(i) Model 7ACA (Champion dwg. 4-1563)  
(j) Models 7ECA, 7GCAA, 7GCBC (Champion dwg. 4-1637 box and 3-1535 cover)  
(k) Model 7KCAB (Champion dwg. 4-1637 box and 3-1544 cover)  
(l) Models 7GCAA, 7GCBC (Champion dwg. 4-1637-1 box and 3-1562 cover)
103. Carburetor or Injector Air Filter  
(a) Models 7AC, 7BCM, 7CCM, 7DC (Aeronca Dwg. 2-849) 1 lb. (-47)  
(b) Models 7EC, 7FC, 7JC (Aeronca Dwg. 2-849) 1 lb. (-49)  
(c) Models 7GC, 7GCA, and 7HC (P/N 120086 Air Maze) 1 lb. (-46)  
(d) Models 7GC, 7GCA, 7GCB, 7GCBA, 7HC, 7KC (Fram P/N CA161PL) 2 lb. (-45)  
(e) Model 7ECA with Continental O-200-A engine (Air Maze P/N 13203) 1 lb. (-53)  
(f) Models 7ECA, 7GCBC, 7GCAA, 7KCAB (Fram P/N CA121PL or AC P/N 6486786 or 5648075) 1 lb. (-37)  
(g) Model 7ACA (Air Maze P/N 13203) 1 lb. (-52)  
(h) Models 7ECA, 7GCAA, 7GCBC, 7KCAB (Donaldson P/N P10-4145) 1 lb. (-45)  
(i) Models 7ECA, 7GCAA, 7GCBC, 7KCAB (Brackett P/N BA-8110) 1 lb. (-45)
104. McDowell starter (Aeronca dwg. S-7) 9 lb. (-50)
105. Hanlon and Wilson mufflers and heaters 13 lb. (-40)  
(a) Models 7AC, 7BCM, 7CCM, and 7DC (dwg. 7-557)  
Note: Weight of exhaust stack removed to permit this installation, 4 lb., Model 7AC only.  
(b) Models 7EC, 7FC, 7JC (dwg. 7-1056) 13 lb. (-42)
106. Auxiliary fuel tank (5.5 gal. capacity) 11 lb. (+58)  
(a) Models 7AC, S7AC (Aeronca dwg. 7-565A)  
(b) Models 7AC, S7AC, 7BCM, 7CCM, S7CCM, 7DC, S7DC, 7EC, S7EC (dwg. 7-1001, 7-796) 8 lb. (+19)  
Note: Left and right tanks eligible. When two tanks are installed, placard (dwg. 1-3510) is required.
107. Exhaust muffler, Ryan Aeronautical Co. Dwg. 54209 (7AC, S7AC) 2 lb. (-40)
- \*108. Oil filter - Fram PB-5, Kit No. 510, Fram Installation Dwg. 61522 or 62399. Weight includes 1 qt. of oil. (Eligible on all 7 series aircraft.) 4 lb. (-26)

109.	Carburetor restricted air filter assembly, Champion dwg. 2-957	1 lb.	
(a)	Models 7CCM, 7DC Model 7EC Note: 2-957 restricted filter assembly required on Model 7EC with auxiliary wing tank fuel system installed.		(-47) (-49)
(b)	Unrestricted air filter assembly (Champion dwg. 2-849) (Used with 7-10002 fuel system. See item 116) Models 7EC, 7FC, 7JC	1 lb.	(-49)
110.	Injector airscoop and filter assembly for injector type engine	4 lb.	(-47)
111.	Starters		
(a)	Delco-Remy No. 1109656, 12V, Models 7EC, 7FC, 7JC	16 lb.	(-28)
(b)	Delco-Remy No. 1109657 starter and No. DR1464 starter solenoid. Models 7ECA (with Lycoming O-235-C1 engine), 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7KC, 7KCAB	18 lb.	(-46)
(c)	Deleted September 12, 1961 (included in Items 111(b) and 308(d)).		
(d)	Delco-Remy No. 1109656, 12V, Model 7ECA with Continental O-200-A engine.	16 lb.	(-32)
(e)	Prestolite P/N MZ-4204, Models 7ECA (with Lycoming O-235-C1 or O-235-K2C engine), 7GCAA, 7GCBC, 7KCAB	18 lb.	(-46)
(f)	Prestolite P/N MZ-4203, Model 7ACA (with Franklin 2A-120A engine),	15 lb.	(-38)
(g)	Sky-Tec P/N 149-12LS, Models 7GCAA, 7GCBC, 7KCAB	10 lb.	(-46)
(h)	Sky-Tec P/N 122-12PM, Models 7ECA (with Lycoming O-235 engine)	10 lb.	(-46)
(i)	Teledyne Continental P/N 655551, Model 7EC (with Continental O-200-A or O-200D)	11 lb.	(-31)
112.	Oil capacity calibration plate installed on firewall for Model S7EC (Aeronca dwg. 1-3517).	No wt.	change
*113.	Davis exhaust silencer Model D-65-2 installed per Davis Silencer Co. dwg. 650 (7AC, S7AC when Items 105 or 107 are not installed).	3 lb.	(-39)
*114.	Wright winter shutters, installed per Wright Instln, Instructions No. 1 dated 12-24-49, issued by Wright Flying Service, Williston, ND	2 lb.	(-26)
*115.	Lycoming O-235-C and -C1 engines eligible when installed per STC SA3-372. Engine and propeller combinations and limits as specified on STC and addendum pages, as amended 27 November 1970 or later amendments.		
116.	26 Gallon Fuel System. Champion Instln. dwg. 7-1102 and 7-10002, Models 7FC, 7JC and 7ECA. (Models eligible when installed per Champion Kit 192: 7A, 7B, 7C, 7D, 7E) Placard (Champion dwg. 1-8825) required on Model 7A.	30 lb.	(+20)
117.	Mixture Control installation		
(a)	Models 7EC, 7FC, 7JC (Champion dwg. 4-1013)	1 lb.	(-5)
(b)	Models 7GC, 7HC, (Champion dwg. 7-1088)	1 lb.	(-10)
(c)	Models 7GCA, 7GCB, 7GCBA, 7KC (Champion dwg. 7-1114)	1 lb.	(-10)
(d)	Model 7ECA with CMC O-200-A engine (Champion dwg. 7-1252)	1 lb.	(-22)
(e)	Models 7GCBC (with Lycoming O-320 engine), 7GCAA (Champion dwg. 7-1289)	1 lb.	(-10)
(f)	Models 7GCBC (with Lycoming O-235-C1 engine), 7ECA (Champion dwg. 7-1300)	1 lb.	(-10)
(g)	Model 7KCAB (Champion instln. dwg. 7-1302)	1 lb.	(-10)
(h)	Model 7ACA (Champion instln. dwg. 7-1445)	1 lb.	(-15)
(i)	Models 7ECA (with Lycoming O-235-K2C engine), (Champion Installation dwg. 7-1530)	1 lb.	(-10)
(j)	Model 7GCAA, 7GCBC (with Superior O-360-A3A2 engine), (Champion Installation dwg. 7-1581)	1 lb.	(-10)
118.	Oil Cooler		
(a)	Models 7GC, 7GCA, 7HC (Champion P/N 3-1086-1)	8 lb.	(-26)
(b)	Models 7GC, 7GCA, 7GCB, 7GCBA, 7HC, 7KC (Champion P/N 3-1114-1)	4 lb.	(-28)
(c)	Models 7GCAA, 7GCBC (with Lycoming O-320 engine) (Champion Instln. dwg. 7-1289)	3 lb.	(-29)
(d)	Models 7KCAB (Champion Instln. dwg. 7-1302)	3 lb.	(-29)
(e)	Models 7ECA (with Lycoming O-235-K2C engine) (Champion Instalation dwg. 7-1530)	3 lb.	(-29)
(f)	Model 7EC (with TCM O-200-D) (Champion Installation dwg. 7-1612)	3 lb.	(-33)
119.	39 Gallon Fuel System Models 7ECA, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7KC (Champion instln. dwg. 7-1099, 7-1102) Model 7KCAB (Champion instln. dwg. 7-1099, 7-1314)	32 lb.	(+20)
	Models 7ECA, 7GCAA, 7GCBC, 7KCAB (Champion instln. dwg. 7-1328)	42 lb.	(+20)
		40 lb.	(+19)
120.	Exhaust mufflers and heaters		
(a)	For use with Item 102(c) carburetor air scoop (Champion instln. dwg. 7-1086) Models 7GC, 7GCA, 7HC	15 lb.	(-36)
(b)	For use with Item 102(d) carburetor air scoop (Champion instln. dwg. 7-1133) Models 7GC, 7GCA, 7GCB, 7GCBA, 7HC, 7KC	15 lb.	(-36)
(c)	For use with Item 102(f) carburetor air scoop (Champion instln. dwg. 7-1289) Models 7GCAA, 7GCBC	15 lb.	(-36)
(d)	For use with Item 102(g) carburetor air scoop (Champion instln. dwg. 7-1300) Model 7ECA (with Lycoming O-235-C1 engine)	14 lb.	(-36)
(e)	For use with Item 102(h) carburetor air scoop (Champion instln. dwg. 7-1302) Model 7KCAB	14 lb.	(-36)

- (f) For use with Item 102(j) carburetor air scoop (Champion P/N 7-1466-2 or 7-1483-2 and Inst. Dwg. 7-1300 Model 7ECA with Lycoming O-235-C1 engine) 15 lb. (-42)
- (g) For use with Item 102(j) carburetor air scoop (Champion P/N 7-1466-1 or 7-1483-1 and Inst. Dwg. 7-1289) Models 7GCAA, 7GCBC 15 lb. (-42)
- (h) For use with Item 102(k) Injector air scoop (Champion P/N 7-1466-1 or 7-1483-1 and Inst. Dwg. 7-1314 Model 7KCAB 15 lb. (-42)
- (i) For use with Item 102(j) carburetor air scoop (Champion P/N 7-1483-2 and Inst. Dwg. 7-1530 Model 7ECA with Lycoming O-235-K2C engine) 15 lb. (-42)
121. Vacuum pump
- (a) Airborne Mechanisms dry vacuum pump, Model 10-113-A1 (Champion instln. dwg. 7-1104) Models 7GC, 7GCA, 7GCB, 7GCBA, 7HC, 7KC 3 lb. (-28)
- (b) Airborne Mechanisms dry vacuum pump, Model 113A5 (Champion instln. dwg. 7-1275) Model 7ECA with Continental O-200-A engine 5 lb. (-43)
- (c) Airborne Mechanisms dry vacuum pump, Model 113A5 or 200CC (Champion instln. dwg. 7-1125) Models 7ECA, (with Lycoming O-235-C1 or O-235-K2C engine), 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7KC, 7KCAB 5 lb. (-28)
122. Lycoming O-235-C1 or O-235-C2C (Models 7ECA, 7GCBC) installed per Champion instln. dwg. 7-1300
- Fuel: 80 minimum grade aviation gasoline
- Engine limits for all operations: 2800 r.p.m. (115 h.p.)
- Oil capacity: 6 qt. at -36
- Control surface Elevator trim tab Up 10° Down 44°  
(Model 7GCBC only)
- Required equip. Landplane: 17(a), 102(g) or (j), 103(f) or (h), 117(f), 116 or 119 or 123(a), 201(d) or (h) or (i) or (l), 202.
- Seaplane: 17(a), 102(g) or (j), 103(f) or (h), 117(f), 116 or 119 or 123(a), 204(c), 205(a) or 205(d)
123. Fuel System
- (a) 36 Gallon Fuel System
- Champion instln. dwg. 7-1456, 7-1476 Models 7ECA, 7GCAA, 7GCBC 39 lb. (+20)
- Champion instln. dwg. 7-1456, 7-1314 Models 7KCAB 41 lb. (+19)
124. Lycoming O-235-K2C engine (Model 7ECA) Installed per Champion Dwg. 7-1530
- Fuel 100 minimum grade aviation gasoline
- Engine limits Take-Off 2800 r.p.m. (118 h.p.)
- Maximum Continuous 2700 r.p.m. (115 h.p.)
- Oil capacity 6 qt. at -36
- Required equip. Landplane: 22(a), 102(j), 103(h)(i), 117(i), 123(a), 201(i)(l), 202(g).
125. Lycoming O-320-B2B engine (Models 7ECA, 7GCAA, 7GCBC) Installed per Champion Dwg. 7-1289. Requires aircraft to be outfitted per Note 13 (7GCBC) or Note 15 (7ECA, 7GCAA)
- Fuel 100 minimum grade aviation gasoline
- Engine limits Maximum Continuous 2700 r.p.m. (160 h.p.)
- Oil capacity 8 qt. at -36
- Required equip. Landplane: 20(a), 102(f), 103(i), 117(e), 123(a), 201(i)(l), 202(g). Modifications per Champion dwg. 11-1029 (7ECA only).
- Original Equipment Serial Numbers: 400-97 and up (7GCAA)  
1200-94 and up (7GCBC)
126. Superior O-360-A3A2 engine (Model 7GCBC, 7GCAA) Installed per Champion Dwg. 7-1581. Requires aircraft to be outfitted per Note 13 (7GCBC) or Note 15 (7GCAA).
- Fuel 91 octane minimum gasoline (no alcohol content)
- Engine limits Maximum Continuous 2700 r.p.m. (180 h.p.)
- Oil capacity 8 qt. at -36
- Required equip. 7GCBC Landplane: 23(a), 102(l), 103(i), 117(j), 123(a), 201(n), 202(g)
- Required equip. 7GCAA Landplane: 23(a), 102(l), 103(i), 117(j), 123(a), 201(i), 202(g)
- Original Equipment Eligible Serial Numbers: 1360-2004 and up (7GCBC)  
497-2005 and up (7GCAA)
127. Lycoming O-360-C4P engine (Model 7GCBC) Installed per Champion Dwg. 7-1581. Requires aircraft to be outfitted per Note 13 (7GCBC).
- Fuel 91 octane minimum gasoline (no alcohol content)
- Engine limits Maximum Continuous 2700 r.p.m. (180 h.p.)
- Oil capacity 8 qt. at -36
- Required equip. 7GCBC Landplane: 23(a), 102(l), 103(i), 117(j), 123(a), 201(n), 202(g)
- Original Equipment Eligible Serial Numbers: 1459-2011 and up (7GCBC)



Landing Gear and Floats

## 201. Main landing gear wheels

- |     |   |        |       |
|-----|---|--------|-------|
| (a) | 6.00-6 wheels with brakes (Goodyear model L6MBD, wheel assembly 511413M, Brake assembly 511254-A) with:   |        |       |
|     | 6.00-6, 2 or 4-ply tires (Model 7AC only)   | 35 lb. | (0)   |
|     | 6.00-6, 4-ply tires or 7.00-6, 4-ply tires (all models except 7FC, 7GCBA, 7HC)  | 35 lb. | (0)   |
| (b) | 6.00-6 wheels with brakes (Cleveland Model 6.00DMB-3, wheel assembly C-38500-HM with mechanical brake assembly C-7000, or wheel assembly C-38500-H with hydraulic brake assembly C-2000-H with: |        |       |
|     | 6.00-6, 2 or 4-ply tires (Model 7AC only)   | 32 lb. |       |
|     | 6.00-6, 4-ply tires   | 32 lb. |       |
|     | 7.00-6, 4-ply tires   | 39 lb. |       |
|     | 8.00-6, 4-ply tires   | 42 lb. |       |
|     | Models 7AC thru 7EC, 7GC, 7GCA, 7GCB, 7JC, 7KC  |        | (0)   |
|     | Model 7GCBA, 8.00-6, 4-ply tire only  |        | (0)   |
|     | Models 7FC, 7HC   |        | (+26) |
| (c) | 6.00-6 Goodyear Model CL6HBM (cross-wind) wheel and brake assembly 266AX36 or wheel assembly 9530526RH and 9530525LH, brake assembly 9530368RH and 9530369LH with:                              | 52 lb. |       |
|     | 6.00-6, 2 or 4-ply tires (Model 7AC only)   |        |       |
|     | 6.00-6, 4-ply tires or 7.00-6, 4-ply tires  |        | (0)   |
|     | (Installation Aeronca dwg. 7-1000) (Models 7AC thru 7EC only)   |        |       |
| (d) | Cleveland hydraulic wheel and brake assembly 20-16 (Champion installation dwg. 7-1159 - Oleo type gear) with:   |        |       |
|     | 6.00-6, 4-ply tires (Model 7FC)   | 32 lb. | (+26) |
|     | 7.00-6, 4-ply tires (Model 7FC)   | 35 lb. | (+26) |
|     | 7.00-6, 4-ply tires (Model 7ECA with CMC O-200-A engine)  | 35 lb. | (0)   |
|     | 6.00-6, 4-ply tires (Model 7ECA with CMC O-200-A engine)  | 32 lb. | (0)   |
|     | Eligible when P/N 2-1655 Oleo Taxi Spring installed.  |        |       |
|     | 7.00-6, 6-ply tires (Model 7ECA with Lycoming O-235-C1 engine, 7GCAA, 7GCBC and 7KCAB), with Oleo Taxi Springs (P/N 2-1655 ) installed.   | 37 lb. | (0)   |
| (e) | 4-1139 axle assembly (Champion instln. dwg. 7-1159)   | 13 lb. | (+26) |
|     | Model 7FC (see NOTE 7)  |        |       |
|     | Model 7HC (see NOTE 9)  |        |       |
| (f) | Goodrich wheel and brake instln. (P/N 3-1086 and 2-883)   |        |       |
|     | Wide trake main gear (Champion dwg. 7-1176) with  |        |       |
|     | 6.00-6, 4-ply tires   | 38 lb. |       |
|     | 7.00-6, 4-ply tires   | 45 lb. |       |
|     | 8.00-6, 4-ply tires   | 48 lb. |       |
|     | (Models 7FC and 7HC)  |        | (+26) |
| (g) | Goodrich wheel and brake instln. (P/N 3-1086 and 2-883) (Champion dwg. 7-1177) with   |        |       |
|     | 6.00-6, 4-ply tires   | 38 lb. |       |
|     | 7.00-6, 4-ply tires   | 45 lb. |       |
|     | 8.00-6, 4-ply tires   | 48 lb. |       |
|     | (Models 7EC, 7GC, 7GCA, 7GCB, 7JC, 7KC)   |        | (0)   |
|     | (Model 7GCBA, 8.00-6, 4-ply tires only)   |        | (0)   |
| (h) | Cleveland wheel and brake assemblies (20-16) Champion Instln dwg. 7-1307, 7-1291 Spring Steel Gear  |        |       |
|     | 7.00-6, 6-ply tires   | 32 lb. | (0)   |
|     | 8.00-6, 4-ply tires   | 35 lb. | (0)   |
|     | (Models 7ECA, 7GCAA, 7GCBC, 7KCAB)  |        |       |
| (i) | Cleveland wheel and brake assemblies (20-16) Champion Instln dwg. 7-1307, 7-1404 or 4-2038 Spring Steel Gear  |        |       |
|     | 4-2035 Spring Aluminum Gear (Installation dwg 7-1559)   |        |       |
|     | 6.00-6, 4-ply or 6-ply tires  | 29 lb. | (0)   |
|     | 7.00-6, 4-ply or 6-ply tires  | 32 lb. | (0)   |
|     | 8.00-6, 4-ply tires   | 35 lb. | (0)   |
|     | (Models 7ECA, 7GCAA, 7GCBC, 7KCAB)  |        |       |
| (j) | Cleveland wheel and brake assemblies (40-78B) Champion Instln dwg. 7-1440, 7-1441 Spring Steel Gear   |        |       |
|     | 5.00-5, 4-ply tires   | 23 lb. | (0)   |
|     | 5.00-5, 6-ply tires   | 25 lb. | (0)   |
|     | (Model 7ACA)  |        |       |
| (k) | Cleveland wheel and brake assemblies (20-16) Champion Instln dwg. 7-1440, 7-1441-1 Spring Steel Gear  |        |       |
|     | 6.00-6, 4 or 6-ply tires  | 29 lb. | (0)   |
|     | (Model 7ACA)  |        |       |
| (l) | McCauley wheel and brake assemblies (D-30039-1) Champion Instln dwg. 7-1307, 7-1404 Spring Steel Gear   |        |       |
|     | 6.00-6, 4-ply or 6-ply tires  | 29 lb. | (0)   |
|     | 7.00-6, 4-ply or 6-ply tires  | 32 lb. | (0)   |
|     | 8.00-6, 4-ply tires   | 35 lb. | (0)   |
|     | (Models 7ECA, 7GCAA, 7GCBC, 7KCAB)  |        |       |

	(m) McCauley wheel and brake assemblies (D-30039-1) Champion Instln dwg. 7-1440, 7-1441 Spring Steel Gear	29 lb.	(0)
	(n) Cleveland wheel and brake assemblies (20-16) Champion Instln dwg. 7-1559, 4-2035 Spring Aluminum Gear	35 lb.	(0)
	(o) Cleveland wheel and brake assemblies (20-16) Champion Instln dwg. 7-1589, 4-2045 Spring Aluminum Gear	29 lb.	(0)
202.	Tail wheel assemblies (Models 7AC, 7BC, 7CCM, 7DC, 7EC, 7ECA, 7GC, 7GCA, 7GCAA, 7GCB, 7GCB, 7GCBC, 7KC, 7KCAB, 7ACA, except as noted)		
	(a) 6 x 200 steerable Scott Aviation Model 3000	7 lb.	(+186)
	(b) Maule Models SFS-12, SS-12 or SAFS-12	6 lb.	(+186)
	(c) Steerable, Scott Model 3-24B	7 lb.	(+186)
	(d) Imperial Model B-100	6 lb.	(+186)
	(e) Lang (formerly Decker) steerable Model D-501A	7 lb.	(+186)
	(f) Maule SFS-1-2 (Champion instln. dwg. 4-1042) (Model 7GC only)	6 lb.	(+197)
	(g) Scott (Avox) 3200 or ABI-3200 (Champion instln. dwg. 4-1080)	8 lb.	(+190.5)
	(h) Maule pneumatic SFS-1-2P8 (Champion instln. dwg. 3-486)	8 lb.	(+190.5)
	(i) Maule pneumatic SFS-1-2P8 (Champion instln. dwg. 4-1423)	8 lb.	(+191)
203.	Skis (Models 7AC, 7BCM, 7CCM, 7DC, 7EC, 7GC, except as noted)		
	(a) Federal A-1500 (Federal instln. dwg. 11R241)	37 lb.	(0)
	(b) Federal CA1850-6 (Federal instln. dwg. 11R241)	48 lb.	(0)
	(c) Federal A-2000-A (Federal instln. dwg. 11R241)	49 lb.	(0)
	(d) Federal A-2000 (Federal instln. dwg. 11R241)	41 lb.	(0)
	(e) Federal A-1850 (Federal instln. dwg. 11R241)	38 lb.	(0)
	(f) Federal A-1500-A (Federal instln. dwg. 11R241)	39 lb.	(0)
	(g) Federal Model AWB-1500 wheel skis when installed in accordance with Federal Instal. Dwg. 11R471. Placard required on ski position selector box: "SKI CONTROL"	75 lb.	
	"UP-NEUTRAL-DOWN"	<u>Retracted</u> (-6)	<u>Extended</u> (-3.5)
	(h) Federal Model AWB-1500A wheel skis when installed in accordance with Federal Instal. Dwg. 11R471. Placard required on ski position selector box: "SKI CONTROL"	84 lb.	
	"UP-NEUTRAL-DOWN"	<u>Retracted</u> (-6)	<u>Extended</u> (-3.5)
	(i) Federal Model C-2200 wheel-ski combination (Champion instln. dwg. 7-1076) (Models 7EC, 7GC only)	106 lb.	
	Main skis and hydraulic components with LDR bottoms	<u>Retracted</u> (-13)	<u>Extended</u> (-5)
	Main skis and hydraulic components with aluminum bottoms	96 lb.	
		<u>Retracted</u> (-14)	<u>Extended</u> (-5)
	(j) Federal Model AWT-2500 tail ski (Champion instln. dwg. 3-1101) (Models 7EC, 7GC only)	7 lb.	(+186)
	(k) FluiDyne Model A-2000-A (Champion instln. dwg. 7-1281) (Models 7ECA, 7GCAA, 7GCB) Main skis only.	38 lb.	(-6)
	(l) FluiDyne Model A-2000A (Champion instln. dwg. 7-1321) Model 7GCBC with Lycoming O-320 engine and spring steel gear installed. Main skis only. (Models 7GCAA, 7KCAB, 7ECA)	44 lb.	(-5)
204.	Floats - Seaplane		
	(a) Edo 60-1320 including water rudder (Model S7AC only)	168 lb.	(+16)
	(b) Edo 92-1400 including water rudder (Models S7AC thru S7EC)	169 lb.	(+16)
	(c) Pee-Kay 1800 (Champion dwg. 7-1118) (Models 7GC, 7GCB, 7GCBC with Lycoming O-320 engine, 7ECA, 7HC). Model 7HC eligible only on aircraft with Champion dwg. 3-1135 fuselage fittings installed at Champion factory).	198 lb.	(+19)
	(d) Edo 89A2000 floats including double water rudders	270 lb.	(+16)
	Model 7GCBC with Lycoming O-320 engine and fitted for steel spring gear.		
205.	Auxiliary fins - Seaplane		
	(a) Auxiliary Dorsal Fins (Champion P/N 4-634, Installation Dwg. 3-1067). Two required for EDO 60-1320, Model S7AC, EDO 92-1400 Floats on Models S7AC, S7CCM, S7DC, S7EC and for Pee-Kay 1800 Floats on Models 7ECA, 7GCA and 7HC	3 lb.	(+170)
	Four required for Pee-Kay 1800 Floats on Models 7GCB	6 lb.	(+170)
	(b) Deleted		
	(c) Ventral Fin (Champion P/N4-6587) (Champion Installation Dwg. 4-909) Required for Models S7AC, S7CCM and S7DC on EDO 92-1400 Floats and Models 7GC, 7GCB and 7HC on Pee-Kay 1800 Floats	4 lb.	(+171)
	(d) Auxiliary Dorsal Fins (Champion P/N 4-1458, instln. dwg. 3-1418) (used with stabilizer, Champion P/N 4-1413)		
	Two required for Pee-Kay 1800 Floats on Model 7ECA	3 lb.	(+170)
	Four required for Pee-Kay 1800 Floats on Models 7GCB and 7GCBC	6 lb.	(+170)
	Four required for Edo 89A2000 floats on Model 7GCBC with Lycoming O-320 engine	6 lb.	(+170)

206.	Wheel pants		
	(a) Models 7AC, 7BCM, 7CCM, 7DC (dwg. 7-606)	6 lb.	(0)
	(b) Model 7EC (dwg. 7-1060)	6 lb.	(0)
	(c) Models 7FC, 7HC (dwg. 7-10006)	6 lb.	(+26)
	(d) Models 7EC, 7GC, 7GCA, 7GCB, 7JC (dwg. 7-10006)	6 lb.	(0)
	(e) Model 7FC (nose wheel only, dwg. 4-1006)	6 lb.	(-31)
	(f) Model 7HC (nose wheel only, dwg. 7-1112)	3 lb.	(-31)
	(g) Model 7JC (aft gear only, dwg. 7-1128)	3 lb.	(+80)
	(h) Model 7FC (main wheels, dwg. 7-1141)	14 lb.	(+26)
	(i) Model 7FC (nose wheel, dwg. 7-1154)	2 lb.	(-29)
	(j) Models 7ECA, 7GCAA, 7GCB, 7GCB, 7GCBC,, 7KC, 7KCAB (dwg. 7-1141)	14 lb.	(0)
	(k) Models 7ECA, 7GCAA, 7GCBC,, 7KCAB (Champion instln. dwg. 4-1474)	14 lb.	(0)
207.	Parking brake		
	(a) Models 7AC, 7BCM, 7DC, 7EC, 7FC, 7GC, 7GCA, 7GCB, 7HC, 7JC (Champion dwg. 7-443)	2 lb.	(-10)
	(b) Models 7EC, 7FC, 7GC, 7GCA, (Champion dwg. 4-1023)	1 lb.	(-8)
	(c) Models 7EC, 7FC, 7GC, 7GCA, 7HC, 7JC (Champion dwg. 4-1023)	1 lb.	(-7)
	(d) Models 7ECA, 7GCAA, 7GCBC, 7KCAB (Champion dwg. 4-1370)	2 lb.	(-16)
	(e) Models 7ECA, 7GCAA, 7GCBC, 7KCAB, 7ACA (Champion dwg. 4-1557)	1 lb.	(-14)
	(f) Models 7ECA, 7GCAA, 7GCBC, 7KCAB, 7ACA (Champion dwg. 4-1624)	1 lb.	(-14)
*208.	Wheel fenders - Consolidair Model 17 (Consolidair dwg. 0036) Models 7AC thru 7EC only	10 lb.	(0)
209.	Nose landing gear installation (Champion dwg. 7-1073) Models 7FC and 7HC		
	(a) 5.00-5 Cleveland wheel and 5.00-5, Type III, 4-ply rating tires	9 lb.	(-31)
210.	Hydraulic brake installation		
	(a) Champion dwg. 7-1078 (Model 7EC only) (wt. increase over mechanical)	2 lb.	(+10)
	(b) Scott hydraulic brake installation (Champion dwg. 4-1091) Models 7EC, 7FC, 7GC, 7GCA, 7GCB, 7JC, 7KC	3 lb.	(+10)
	(c) Scott hydraulic brake instln. (Champion dwg. 4-1122) Model 7KC	3 lb.	(-18)
	(d) Cleveland hydraulic brake instln. (Champion dwg. 4-1370) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	3 lb.	(-6)
	(e) Hydraulic brake instln. - Heel - (Champion dwg. 4-1557, 7-1307) Models 7ECA, 7GCAA, 7GCBC, 7KCAB, 7ACA	2 lb.	(-10)
	(f) Hydraulic brake instln. - Toe - (Champion dwg. 4-1624, 7-1307) Models 7ECA, 7GCAA, 7GCBC, 7KCAB, 7ACA	2 lb.	(-10)
211.	Aft landing gear (Champion instln. dwg. 7-1126) Model 7JC		
	(a) 5.00-5 Cleveland wheel and 5.00-5, Type III, 4-ply rating tires	9 lb.	(+80)
<u>Electrical Equipment</u>			
304.	(a) Battery, 6V, Reading (Models 7AC thru S7EC only)	12 lb.	(+57)
	(b) Battery box (Models 7AC thru S7EC only)	2 lb.	(+57)
305.	Position lights		
	(a) Models 7AC, 7BCM, 7CCM, 7DC (dwg. 7-545)	2 lb.	(+24)
	(b) Models 7EC, 7FC (dwg. 7-1065)	3 lb.	(+20)
	(c) Models 7GC, 7GCA, 7GCB, 7GCBC, 7HC (dwg. 7-1101)	1 lb.	(+90)
	(d) Models 7EC, 7FC, 7JC (dwg. 7-1085)	1 lb.	(+90)
	(e) Model 7KC (dwg. 7-1149)	1 lb.	(+90)
	(f) Model 7GCBA (dwg. 7-1163)	1 lb.	(+90)
	(g) Models 7ECA, 7GCAA, 7KCAB (dwg. 7-1320, 7-1051)	1 lb.	(+90)
	(h) Model 7ACA (dwg. 7-439, 7-1051)	3 lb.	(+20)
306.	Generator, wing-driven, Champion 8 amp.	8 lb.	(+9)
307.	Battery		
	(a) Willard AW-12-25 (Model 7EC only)	24 lb.	(+54)
	(b) Bowers BA-25, 12V Model 7EC only	24 lb.	(+54)
	Models 7FC, 7JC	24 lb.	(-27)
	Models 7GC, 7GCA (with cables), 7HC	28 lb.	(+79.5)
	(c) Exide AC-60, 33 a. hr.; AC-66, 33 a. hr.; AC-78, 35 a. hr. 12V manifold vented	27 lb.	(+79)
	Models 7GC, 7GCA, 7GCB, 7HC (Champion instln. dwg. 4-1066) Model 7KC (Champion dwg. 7-1149)		
	(d) Exide AC-54 manifold vented, 12V 24 a. hr. (Champion instln. dwg. 4-1108) Models 7EC, 7FC, 7JC	22 lb.	(-27)
	Model 7ECA with CMC O-200-A engine (instln. dwg. 7-1252)	22 lb.	(-27)
	Model 7ECA and 7GCBC with Lycoming O-235-C1 engine (instln. dwg. 7-1300)	23 lb.	(-26)
	(e) Exide AC-54 manifold vented, 12V 24 a. hr. (Champion instln. dwg. 3-1191) (Model 7EC)	22 lb.	(+54)
	(f) Exide AC-54 manifold vented, 12V 24 a. hr. (Champion instln. dwg. 4-1167) (Model 7GCBA)	22 lb.	(-27)
	(g) Exide AC-66 manifold vented, 12V 33 a. hr. (Champion instln. dwg. 7-1293) Models 7GCAA, 7GCBC, 7KCAB	33 lb.	(+82)
	(h) Rebat S25, 12V 25 a. hr. (Champion instln. dwg. 7-1300) Models 7ECA, 7GCBC (with Lycoming engine O-235-C1)	23 lb.	(-26)

	(i) Rebat R35, 12V 35 a. hr. (Champion instln. dwg. 4-1469) Models 7GCAA, 7GCBC, 7KCAB	33 lb.	(+82)
	(j) Gill 6GCAB-11, 12V 35 a. hr. (Champion instln. dwg. 4-1509) Models 7GCAA, 7GCBC, 7KCAB	33 lb.	(+82)
	(k) Gill 6-GCAB-9, 12V 25 a. hr. (Champion instln. dwg. 7-1300) Models 7ECA, 7GCBC with Lycoming O-235-C1 engine	23 lb.	(-26)
	(l) Exide AC-78, 12V 35 a. hr. (Champion instln. dwg. 4-1545) Models 7GCAA, 7GCBC, 7KCAB	33 lb.	(+82)
	(m) Sonotone CA-24A, 12V 25 a. hr. (Champion instln. dwg. 4-1578) Models 7GCAA, 7GCBC, 7KCAB	30 lb.	(+82)
	(n) Rebat S25M, 12V 25 a. hr. (Champion instln. dwg. 4-1588) Model 7ACA	21 lb.	(+55)
	(o) Rebat R35, 12V 35 a. hr. with battery box (Champion instln. dwg. 4-1599) Models 7GCAA, 7GCBC, 7KCAB	35 lb.	(+82)
	(p) Gill PS6-11, 12V 35 a. hr. with battery box (Champion instln. dwg. 4-1599) Models 7GCAA, 7GCBC, 7KCAB	35 lb.	(+82)
	(q) Gill PS6-9, 12V 25 a. hr. (Champion instln. dwg. 7-1300) Models 7ECA, 7GCBC (with Lycoming O-235-C1 engine)	23 lb.	(-26)
	(r) Rebat S25, 12V 25 a. hr. (Champion instln. dwg. 7-1530) Model 7ECA (with Lycoming O-235-K2C engine)	23 lb.	(-26)
	(s) Gill PS6-9, 12V 25 a. hr. (Champion instln. dwg. 7-1530) Model 7ECA (with Lycoming O-235-K2C engine)	23 lb.	(-26)
	(t) American Champion 11-0817, 12V 31a. hr. with battery box (Champion instln dwg 4-1599) Models 7GCAA, 7GCBC, and 7KCAB	23 lb.	(+82)
	(u) Concorde RG25, 12V 25 a. hr. with battery box (Champion instln dwg 4-1599) Models 7GCAA, 7GCBC, and 7KCAB	23 lb.	(+82)
	(v) Concorde RG25, 12V 25 a. hr. (Champion instln. dwg. 7-1530) Model 7ECA (with Lycoming O-235-K2C engine)	23 lb.	(-26)
	(w) Hawker 0769-4005, 12V 15 a. hr. (Champion instln. Dwg. 7-1582) Model 7EC (with Continental O-200-A or O-200-D engine)	15 lb.	(-25)
308.	Generator or Alternator		
	(a) Generator, voltage regulator, 12V 20 a., Delco-Remy 1101890 and 118736 Models 7EC, 7FC, 7JC	11 lb.	(-28)
	(b) Generator, voltage regulator, 12V 35 a., Delco-Remy 1101898 and 1118704 Models 7EC, 7FC, 7JC	16 lb.	(-28)
	(c) Generator, voltage regulator, 12V 20 a., Delco-Remy 1101899 and 1119226 Models 7ECA with Lycoming O-235-C1 engine, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7KC, 7KCAB	12 lb.	(-45)
	(d) Generator, voltage regulator, 12V 35 a., Delco-Remy 1101900 and 1118704 Models 7ECA (with Lycoming O-235-C1 engine), 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7KC, 7KCAB	18 lb.	(-46)
	(e) Generator, voltage regulator, 12V 20 a., Delco-Remy 1101890 and 1118736 Model 7ECA	12 lb.	(-32)
	(f) Generator, voltage regulator, 12V 35 a., Delco-Remy 1101898 and 1119220 Models 7ECA with Continental O-200-A engine	18 lb.	(-31)
	(g) Alternator and voltage regulator, 12V 40 a., Prestolite Alternator P/N ALE 6406 (Model 7ECA with Lycoming O-235-C1 engine) and Prestolite Alternator P/N ALE 8406 (Models 7GCAA, 7GCBC, 7KCAB), Prestolite Voltage Regulator P/N VSF 72-1 or VSF 7202 or VSF 7203	12 lb.	(-50)
	(h) Alternator and voltage regulator, 12V 35 a., Motorola RA12N451 and Integral R3-1 regulator - Model 7ACA	8 lb.	(-41)
	(i) Alternator and voltage regulator, 12V 60 a., Prestolite Alternator P/N ALY8403 or ALY-8420 (Model 7ECA with Lycoming O-235-C1 engine, 7GCAA, 7GCBC, 7KCAB). Prestolite Voltage Regulator P/N VSF 7203.	12 lb.	(-50)
	(j) Alternator and voltage regulator, 12V 60 a., Prestolite Alternator P/N ALY8420 G (#2 Field Terminal Grounded) Models 7ECA (with Lycoming O-235-C1 or O-235-K2C engine), 7GCAA, 7GCBC, 7KCAB. Prestolite Voltage Regulator P/N FVR 3224.	12 lb.	(-50)
309.	Deleted - included in Item 305		
310.	Landing light		
	(a) Fixed light (dwg. 7-1065) Models 7EC, 7FC only	2 lb.	(+7)
	(b) Retractable light (dwg. 4-10009) Models 7EC, 7FC only	5 lb.	(+13)
	(c) Leading edge landing light (dwg. 4-1001) Models 7EC, 7FC, 7GC, 7GCA, 7GCB, 7GCBA, 7HC, 7JC	2 lb.	(+4)
	(d) Nose bowl landing lights (Champion instln. dwg. 7-1149) Model 7KC only	2 lb.	(-55)
	(e) Nose bowl mounted 100W bulb (Champion instln. dwg. 7-1274) Model 7ECA with CMC O-200-A engine	1 lb.	(-22)
	(f) Nose bowl mounted 100W bulb (Champion instln. dwg. 7-1288) Models 7ECA with Lycoming O-235-C1 engine, 7GCAA, 7 GCBC, 7KCAB	1 lb.	(-53)
	(g) Nose bowl mounted 100W bulb (Champion instln. dwg. 4-1558) Model 7ACA	1 lb.	(-53)
	(h) Nose bowl mounted 100W bulb (Champion instln. dwg. 7-1475) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	1 lb.	(-53)
311.	Stall warning equipment installation		
	(a) (Champion dwg. 7-1065) Models 7EC, 7FC, 7JC	1 lb.	(-4)
	(b) (Champion dwg. 7-1101) Models 7GC, 7GCA, 7GCB, 7HC	1 lb.	(-2)
	(c) (Champion dwg. 7-1138) Model 7KC	1 lb.	(-2)

	(d) (Champion dwg. 7-1163) Model 7GCBA	1 lb.	(-2)
	(e) (Champion dwg. 4-1401) Models 7ECA, 7GCAA, 7GCBC, 7KCAB, 7EC	1 lb.	(-2)
312.	Radio Equipment		
	(a) Narco VHT-3 Superhomer radio instln. (Champion dwg. 3-1063) Models 7EC, 7FC, 7GC, 7GCA, 7GCB, 7GCBA (Champion dwg. 7-1103) Models 7EC, 7FC, 7GC, 7GCA, 7GCB, 7GCBA, 7HC, 7JC (Champion dwg. 7-1167) Model 7KC Cabin speaker instln. (optional)	13 lb.	(-8)
313.	Rotating beacon		
	(a) (Champion dwg. 4-1020) Models 7EC, 7ECA, 7FC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7JC, 7KCAB	2 lb.	(+18 0)
	(b) (Champion dwg. 7-1149) Model 7KC	3 lb.	(+18 2)
	(c) (Champion dwg. 4-1513) Models 7ACA, 7ECA, 7GCAA, 7GCBC, 7KCAB	2 lb.	(+62)
314.	Strobe Light		
	(a) Delta Model 7000 per Champion dwg. 4-1512 Models 7ECA, 7GCAA, 7GCBC	4 lb.	(+24)
	(b) Whelen A429 Wing Tip Strobe Lights (Champion instln. dwg. 3-1512) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	4 lb.	(-4)
	(c) Aeroflash P/N 156-0003 Models 7ECA, 7GCAA, 7KCAB, 7GCBC, 7EC per Champion dwg. 3-1668	4 lb.	(+24)

#### Interior Equipment

401.	Adjustable front seat cushion and belt		
	(a) (Champion dwg. 7-453) Models 7EC, 7FC, 7GC, 7GCA, 7HC, 7JC	14 lb.	(+17)
	(b) (Champion dwg. 7-1147) Model 7KC	32 lb.	(+14)
402.	Cargo rack replacing rear seat, cushion and belt	5 lb.	(+40)
403.	Cabin heater	2 lb.	(-36)
404.	Seats		
	(a) Wide rear seat, dwg. 7-1067, cushions and belt, Models 7EC, 7ECA, 7FC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBC, 7JC, 7KCAB, 7ACA	18 lb.	(+46)
	(b) Adjustable rear seat, Champion instln., dwg. 4-1056, Models 7GCB, 7HC	20 lb.	(+48)
	(c) Adjustable rear seat, Champion instln., dwg. 7-1147, Model 7KC	33 lb.	(+45)
	(d) Adjustable hinged front seat, Champion dwg. 7-1261, Models 7ECA, 7GCAA, 7GCBC	13 lb.	(+16)
	(e) Adjustable hinged rear seat, Champion dwg. 7-1261, Models 7ECA, 7GCAA, 7GCBC	13 lb.	(+46)
	(f) Parachute seat with seat pack parachute and cushions, front (Champion instln. dwg. 7-1279) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	33 lb.	(+15)
	(g) Parachute seat with seat pack parachute and cushions, rear (Champion instln. dwg. 7-1279) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	33 lb.	(+45)
	(h) Parachute seat instln. with cushions, without seat pack parachutes - front (Champion dwg. 4-1403-10) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	13 lb.	(+16)
	(i) Parachute seat instln. with cushions, without seat pack parachutes - rear (Champion dwg. 4-1403-10) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	13 lb.	(+46)
	(j) Front seat installation (Champion dwg. 4-1403-11) Models 7ECA, 7GCAA, 7GCBC, 7KCAB, 7ACA	11 lb.	(+16)
	(k) Rear seat installation (Champion dwg. 4-1403-11) Models 7ECA, 7GCAA, 7GCBC, 7KCAB, 7ACA	11 lb.	(+46)
	(l) Front seat installation (Champion dwg. 4-1642) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	11 lb.	(+16)
	(m) Rear seat installation (Champion dwg. 4-1642) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	11 lb.	(+46)
	(n) Adjustable front seat installation (Champion Drawing 7-1499) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	15 lb.	(+16)
	(o) Rear seat installation (Champion Drawing 4-1708) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	13 lb.	(+47)
	(p) Wide Rear Seat Installation (Champion Drawing 4-1709) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	18 lb.	(+47)
405.	Soundingproofing (side panels, headlining and firewall) Models 7EC, 7JC Model 7FC only	4 lb.	(+22)
	Models 7GC, 7GCA, 7GCB, 7HC	5 lb.	(+10)
406.	Alternate interior (includes upholstery, floormat and baggage compartment lid) (Champion instln. dwg. 7-10003) Models 7EC, 7JC Model 7FC Models 7GC, 7GCA, 7GCB, 7HC (minus baggage compartment lid)	12 lb.	(+21)
		15 lb.	(+28)
		12 lb.	(+36)
407.	Fire extinguisher		
	(a) (Champion instln. dwg. 7-442) Models 7AC, 7BCM, 7CCM, 7DC	7 lb.	(+20)
	(b) (Champion instln. dwg. 7-10004) Models 7EC, 7FC, 7GC, 7GCA, 7GCB, 7HC, 7JC	7 lb.	(+20)
	(c) (Champion instln. dwg. 7-1262 or 7-1293) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	5 lb.	(+23)
	(d) (Champion instln. dwg. 7-1444) Model 7ACA	5 lb.	(+23)

408.	Rear Seat Heater		
	(a) (Champion instln. dwg. 7-1293) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	2 lb.	(-9)
	(b) (Champion instln. dwg. 7-1478) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	2 lb.	(-9)
409.	Emergency Locator Transmitter		
	(a) SHARC 7 Emergency Locator Transmitter (Champion Inst. Drawing 3-1504) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	2 lb.	(+79)
	(b) SHARC 7 Emergency Locator Transmitter (Champion Inst. Drawing 3-1506) Model 7ACA	2 lb.	(+62)
	(c) Larago Emergency Locator Transmitter (Champion Inst. Drawing 3-1590) Models 7ECA, 7GCAA, 7GCBC, 7KCAB	3 lb.	(+68)
	(d) Ameri-King AK-450 or ACK Technologies E-01 Emergency Locator Transmitter (Champion Inst. Drawing 3-1689), Models 7ECA, 7GCAA, 7GCBC, 7KCAB, 7EC	2.5 lb	(+68)

Miscellaneous (not listed above)

601.	Deluxe finish	12 lb.	(+55)
602.	Step (fuselage)	1 lb.	(+19)
603.	Special windows (Aeronca dwg. 7-576)	7 lb.	(+50)
*604.	Crop spraying instln., Aero Spray King Model A2 or A2-49 (Instln. per Ong dwg. A2-200 or A200-49 submitted by Ong Aircraft Corp., P.O. Box 214, Kansas City, MO) Eligible for certification in Standard and/or Restricted classification. (See NOTE 3.) (Models 7AC thru 7EC only)		
	(a) Aero Spray King Model A2	66 lb.	(+37.5)
	(b) Aero Spray King Model A2-49	71 lb.	(+39)
605.	Aerial Insecticiding, Inc., "Portable Spray Equipment Model AI-7AC" installed per instln. instructions and instln. dwg. 7AC-2 and 7AC-3 furnished with kit. Eligible for certification in Standard classification. Models 7AC thru 7EC only	40 lb.	(+13)
*606.	Crop sprayer instln. (Models 7AC thru 7EC only) Pipestone Aviation Services installed per Pipestone Aviation Services, Pipestone, MN, dwg. and instln. instructions dated March 3, 1949. (Eligible for certification in Standard classification).	67 lb.	(+17)
*607.	Crop sprayer instln. (Models 7AC thru 7EC only) Svedy-Sorensen Sprayer installed per Svedy-Sorensen, Worthington, MN, dwg. and instln. instructions dated March 10, 1949. (Eligible for certification in Standard classification).	56 lb.	(+17)
*608.	Crop sprayer instln. (Models 7AC thru 7EC only) Sprayer installed per Broyhill Company, Dakota City, NE, dwg. BC-7DC-1. All propeller limits listed for each Model apply to this installation except Model 7AC and 7CCM static r.p.m. limits for wood propeller which should be as follows: Static r.p.m. at maximum permissible throttle setting: (Model 7AC) not over 2250, not under 2150; (Model 7BCM) not over 2450, not under 2300. Eligible for certification in Standard or Restricted classification (See NOTE 3.). Placards required: In full view of pilot: "All acrobatics including spins prohibited when spray rig installed." On spray tank: "Allowable weight tank contents to be determined from weight and balance. Do not exceed 280 lb."	71 lb.	(+28)
*609.	Crop sprayer instln. (Models 7AC thru 7EC only) Oda Spray and Equipment Co., Inc. installed per Oda dwg. H-300 and H301. Certification and operation limitations same as item 608 except as noted below: Placards on tank: "Allowable weight tank contents to be determined from weight and balance. Do not exceed 260 lb."	77 lb.	(+9)
*610.	Crop sprayer instln. (Models 7AC thru 7EC) Frye Mfg. Co. Model 112 (Instln. per Frye Aerial Spray Kit instructions for Aeronca 7 series). Certification and operation limitations same as item 608. Disposable spray fluid.	32 lb.	(+4)
*611.	Crop sprayer instln. (Models 7AC thru 7EC) Aero Spray King, Jr. Model SA-10 installed per Ong Aircraft Corp. instln. instructions and dwg. SA-1000. Certification and operation limitations same as item 608 except as noted below: Placards on tank: "Allowable weight tank contents to be determined from weight and balance. Do not exceed 193 lb." Disposable spray fluid.	54 lb.	(+19)
*612.	Crop sprayer installation. (Models 7AC thru 7EC only) Martin Sprayer, Model B, installed per Martin Sprayer Mfg. Co., Inc., Monmouth, IL, instln. instructions dated March 3, 1949. Eligible for certification in Standard and/or Restricted classification (See NOTE 3.) except Model 7AC, having wood propeller, is limited to certification in Standard classification only. Placards required: In full view of pilot: "All acrobatics including spins prohibited when spray equipment installed." On spray tank: "Allowable weight tank contents to be determined from weight and balance. Do not exceed 395 lb." Disposable spray fluid.	45 lb.	(+29)
			(+37)

- \*613. Crop sprayer instln. Svedy-Sorensen Model 9 Combination Seeder, Duster and High or Low Gallonage Sprayer and Model 11 High or Low Gallonage Sprayer installed per Svedy-Sorensen Worthington, MN, instln. instructions dated April 1, 1950. Eligible for certification in Standard and/or Restricted classification (see NOTE 3) except Model 7AC is limited to certification in Standard classification only. All propeller limits apply with the exception of those listed below:
- |  |            |        |
|--|------------|--------|
|  | LOW GAL.   |        |
|  | 60 lb.     | (+19)  |
|  | HIGH GAL.  |        |
|  | 84 lb.     | (+16)  |
|  | DUSTER AND | SEEDER |
|  | 47 lb.     | (+33)  |
- Static r.p.m. at maximum permissible throttle setting:  
 Model 9 Seeder, Duster and Low Gallonage Sprayer  
 and Model 11 Low Gallonage Sprayer:
- |                                     |                  |                  |
|-------------------------------------|------------------|------------------|
| <u>Fixed Pitch Wood Propellers</u>  |                  |                  |
|                                     | <u>Model 7AC</u> | <u>Model 7EC</u> |
| Not over                            | 2250             | 2350             |
| Not under                           | 2050             | 2200             |
| <u>Fixed Pitch Metal Propellers</u> |                  |                  |
|                                     | <u>Model 7EC</u> |                  |
|                                     | Not over 2350    |                  |
|                                     | Not under 2200   |                  |
- Model 9 and 11 High Gallonage Sprayer:
- |                                     |                  |                  |
|-------------------------------------|------------------|------------------|
| <u>Fixed Pitch Wood Propellers</u>  |                  |                  |
|                                     | <u>Model 7AC</u> | <u>Model 7GC</u> |
| Not over                            | 2250             | 2350             |
| Not under                           | 2200             | 2275             |
| <u>Fixed Pitch Metal Propellers</u> |                  |                  |
|                                     | <u>Model 7AC</u> | <u>Model 7EC</u> |
| Not over                            | 2250             | 2350             |
| Not under                           | 2175             | 2250             |
- Placards:
- In full view of pilot: "All acrobatics including spins prohibited ."  
 On spray tank: "Allowable weight tank contents to be determined from weight and balance. Do not exceed 450 lb."
- \*614. Crop sprayer instln. consisting of items (a) and (b) below:
- |   |        |       |
|---|--------|-------|
| (a) Crop Sprayer instln., Independent Crop Dusting, Inc., Campbell, CA, two-unit Rotary Spray Kit, when installed per Independent Crop Dusting, Inc., instructions for instln. of two Series 700 Rotors dated February 1, 1950. Eligible for certification in Standard and/or Restricted Classification (see NOTE 3) except Model 7AC with wood propeller is limited to certification in Standard Classification only. (Kit does not include tank). | 25 lb. | (+34) |
| (b) Sprayer tank for approved sprayer instln. when installed per Independent Crop Dusting, Inc., "Mounting Kit A-700-1" instructions and dwg. dated July 31, 1950..   | 30 lb. | (+36) |
- Placards required:
- In full view of pilot: "All acrobatics including spins prohibited."  
 On spray tank: "Maximum tank load to be determined from weight and balance. Do not exceed 264 lb."
- \*615. Crop sprayer instln., Svedy-Sorensen seat tank sprayer installed per Svedy-Sorensen dwg. 16 and installation instructions dated November 2, 1951. 59 lb. (+21)
616. Fiberglass wing tip modification (Champion dwg. 7-1085) Models 7AC, 7BCM, 7CCM, 7DC, 7EC, 7FC. No wt. change
617. Sorensen sprayer unit per Champion dwg. 7-1113. (Models 7GC and 7GCA only). Eligible for certification under regulations of CAR 8 and CAM 8 only. Maximum gross weight 7GC, 2100 lb., 7GCA, 2150. 125 lb. (+7.5)
- Placards required:
- In full view of pilot: "All acrobatics including spins prohibited."  
 "Restricted Category speed limitations:  
 Maximum level speed 92 m.p.h., never exceed speed 123 m.p.h."  
 On spray tanks: "Allowable weight of tank contents to be determined from weight and balance. Do not exceed 810 lb."
618. Clamp-on dorsal fin, Models 7AC and 7BCM (Aeronca dwg. 4-678) 3 lb. (+148)
619. Sorensen sprayer unit per Champion dwg. 7-1113. (Models 7GCAA, 7GCB, 7GCBC). Eligible for certification under regulations of CAR 8 and CAM 8 only. Maximum gross weight 2325 lb. 128 lb. (+7)
- Placards required:
- In full view of pilot: "All acrobatics including spins prohibited."  
 "Restricted Category Speed Limitations:  
 Maximum level speed 115 m.p.h., never exceed speed 121 m.p.h."  
 On spray tanks: "Allowable weight of tank contents to be determined from weight and balance. Do not exceed 810 lb."
620. Champion combination sprayer-duster unit (Model 7GCBA only) 101 lb. (+33)
- (a) Hopper instln. only per Champion Installation dwg. 4-1167, 4-1182, 4-1194, 7-1163, 7-1169, 7-1172, 7-1178.

(b)	Hopper and duster unit only per Champion instln. dwg. 4-1167, 4-1182, 4-1194, 7-1163, 7-1169, 7-1172, 7-1178.	172 lb.	(+30.5)
(c)	Hopper and sprayer unit only per Champion instln. dwg. 4-1167, 4-1182, 4-1194, 7-1163, 7-1169, 7-1172, 7-1178.	197 lb.	(+22.5)
(d)	Hopper and duster-sprayer unit combination complete per Champion instln. dwg. 4-1167, 4-1182, 4-1194, 7-1163, 7-1169, 7-1172, 7-1178.	239 lb.	(+22.5)
621.	Horizontal Tail Surfaces Model Applicability		
	4-867 Stab.    4-1413 Stab.    4-1481 Stab.    4-1481 Stab.		
Model	4-869            4-1414            4-1482            4-1671		
	4-870 Elev.    4-1415 Elev.    4-1483 Elev.    4-1700 Elev.		
7ECA	x	x	x
Seaplane	x	x	x
Skiplane	x	x	x
7GCAA		x	x
Skiplane		x	x
7GCB	x	x	
7GCBA	x	x	
7GCBC		x	x
Seaplane		x*	x**
Skiplane		x	x
7KCAB		x	x
7ACA	x		
	*With Pee Kay 1800 Floats		
	**With Edo 89-2000 Floats		
	Other models approved with 4-867 Stab. and 4-870 Elev. only.		
	4-1414-5 and 4-1415-5 Elev. are alternates for 4-1414 and 4-1415 Elev.		
622.	Tow Hitch Installation	4 lb.	(+111)
	Tow Hitch instln. per Champion dwg.7-1143		
	Models 7ECA, 7GCAA, 7GCB, 7GCBC, 7KCAB		
623.	Metal Belly Skin Instln. per Bellanca dwg. 4-1579	14 lb.	(+66)
	Models 7ECA, 7GCAA, 7GCBC, 7KCAB		

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 C.G. location must include unusable fuel of 6 lb. at (+15) in.

on

Models 7ECA, 7GCAA, 7GCBC, 7KCAB with items 119 or 123(a) Fuel tanks installed.

NOTE 2. The following placards shall be displayed:

(a) Baggage Compartment:

(1) (Models 7AC and S7AC)

"Maximum baggage - 40 lb. solo front, 20 lb. solo rear."

(2) (Models 7EC, 7FC, 7GC, 7GCA, 7GCB, 7HC, 7JC, 7KC)

"Maximum baggage 50 lb."

(3) (Models 7ECA, 7GCAA, 7GCBC, 7KCAB)

"Maximum baggage 100 lb."

(4) (Model 7ACA)

"Maximum baggage 40 lb."

(b) In front and clear view of pilot:

(1) (Model 7BCM)

"Do not exceed 95 m.p.h. TIAS in level flight at any time."

"Solo from front seat only."

(2) (Model S7AC with item 106)

"Solo from front seat only."

(3) (Models 7CCM and 7DC)

"Do not exceed 100 m.p.h. TIAS in level flight."

"Do not exceed 135 m.p.h. TIAS."

"Solo from front seat only."

"Intentional spinning prohibited when carrying baggage."

"Avoid abrupt throttle operation." (For those models equipped with carburetor engine only.)

(4) (Models S7CCM, S7DC)

"Do not exceed 129 m.p.h. TIAS."

"Solo from front seat only."

"Avoid abrupt throttle operation." (For those models equipped with carburetor engine only.)

(5) (Models 7EC and 7FC)

"Intentional spinning prohibited when carrying baggage."

(6) (Models 7GC, 7GCA)

"Solo from front seat only."

"Intentional spinning prohibited."

(7) (Model 7HC)

"Solo from front seat only."

"Intentional spinning prohibited."

"Refer to loading schedule for loading information."



- (8) (Model 7JC)  
"Occupy front seat when flying solo."
- (9) (Model 7KC)  
"Intentional spinning prohibited."
- (10) (Models 7ECA, 7GC, 7GCB, 7GCBC, 7HC)  
In addition to the above applicable placards, the following is required when Item 204(c) is installed:  
"For seaplane use, do not exceed 137 m.p.h."  
"Intentional spinning prohibited."
- (11) (Model 7GCBA)  
"All acrobatics including spins prohibited."
- (12) (Model 7GCB)  
"Occupy front seat when flying solo."  
"Refer to loading schedule for loading information."  
"Do not exceed 135 MPH IAS during negative G condition."  
"Landplane approved for only following acrobatic maneuvers:  

Maneuver	Entry Speed (IAS)	
	m.p.h.	Knots
Chandelle, Lazy Eight	120	104
Barrel or Slow Roll	120	104
Immelmann	145	126
Loop or Clover Leaf	140	122
Split S	80	70
Snap Roll	85	74
Hammerhead Turn	140	122
Cuban Eight	145	126
Spin	Slow Deceleration	

Do not exceed +5.0 or -2.0 G load factor. Do not exceed 135 m.p.h. IAS during negative G condition. Do not perform acrobatics in turbulent air. Caution: Negative G will cause loss of oil and oil pressure. Use of flaps during acrobatics prohibited. To recover from spin, use full opposite rudder and neutralize elevator.
- (13) (Model 7ECA, 7GCAA)  
"Occupy front seat when flying solo."  
"Do not exceed 135 m.p.h. during negative G condition."  
"Landplane approved for only following acrobatic maneuvers:  

Maneuver	Entry Speed (IAS)	
	m.p.h.	Knots
Chandelle, Lazy Eight	120	104
Barrel or Slow Roll	120	104
Immelmann	145	126
Loop or Clover Leaf	140	122
Split S	80	70
Snap Roll	85	74
Hammerhead Turn	140	122
Cuban Eight	145	126
Spin	Slow Deceleration	

Do not exceed +5.0 or -2.0 G load factor. Do not exceed 135 m.p.h. IAS during negative G condition. Do not perform acrobatics in turbulent air. Caution: Negative G will cause loss of oil and oil pressure. To recover from spin, use full opposite rudder and neutralize elevator.
- (14) (Model 7GCBC)  
"Occupy front seat when flying solo."  
"Do not exceed 135 m.p.h. IAS during negative G condition."  
"Landplane approved for only following acrobatic maneuvers:  

Maneuver	Entry Speed (IAS)	
	m.p.h.	Knots
Chandelle, Lazy Eight	120	104
Barrel or Slow Roll	120	104
Immelmann	145	126
Loop or Clover Leaf	140	122
Split S	80	70
Snap Roll	85	74
Hammerhead Turn	140	122
Cuban Eight	145	126
Spin	Slow Deceleration	

Do not exceed +5.0 or -2.0 G load factor. Do not exceed 135 m.p.h. IAS during negative G condition. Do not perform acrobatics in turbulent air. Caution: Negative G will cause loss of oil and oil pressure. Use of flaps during acrobatics prohibited. To recover from spin, use full opposite rudder and neutralize elevator.

- (15) (Model 7KCAB) with IO-320-E2A or IO-320-E2B (Modified per STC SE7CE)

"Occupy front seat when flying solo."

"Do not exceed 135 m.p.h. IAS during negative G condition."

"Landplane approved for only following acrobatic maneuvers:

Maneuver	Entry Speed (IAS)	
	m.p.h.	Knots
Chandelle, Lazy Eight	120	104
Barrel or Slow Roll	120	104
Immelmann	145	126
Loop or Clover Leaf	140	122
Split S	80	70
Snap Roll	85	74
Hammerhead Turn	140	122
Cuban Eight	145	126
Spin	Slow Deceleration	
Level Inverted Flight	120	104
135 m.p.h. (117 KTS) IAS Max		

Do not exceed +5.0 or -2.0 G load factor. Do not exceed 135 m.p.h. IAS during negative G

condition. Do not perform acrobatics in turbulent air. Inverted flight limited to 2 min. Monitor oil press. while inverted to insure minimum of 60 psi. To recover from spin, use full opposite rudder and neutralize elevator.

(Model 7KCAB with AEIO-320-E2B)

"Occupy front seat when flying solo."

"Do not exceed 135 m.p.h. IAS during negative G condition."

"Landplane approved for only following acrobatic maneuvers:

Maneuver	Entry Speed (IAS)	
	m.p.h.	Knots
Chandelle, Lazy Eight	120	104
Barrel or Slow Roll	120	104
Immelmann	145	126
Loop or Clover Leaf	140	122
Split S	80	70
Snap Roll	85	74
Hammerhead Turn	140	122
Cuban Eight	145	126
Spin	Slow Deceleration	
Level Inverted Flight	120	104
135 m.p.h. (117 KTS) IAS Max		

Do not exceed +5.0 or -2.0 G load factor. Do not exceed 135 m.p.h. IAS during negative G condition. Do not perform acrobatics in turbulent air. 2 min. of inverted fuel normally available. Momentary oil pressure interruptions are normal. To recover from spin, use full opposite rudder and neutralize elevator.

- (16) (Model 7GCBC with O-320-A2B Lycoming engine and item 204(d) installed)

"For Seaplane use:

Acrobatics including spins prohibited.

Maximum glide or dive speed 148 m.p.h. (128 knots) CAS

Maximum level speed 110 m.p.h. ( 95 knots) CAS

Maximum flaps extended speed 90 m.p.h. ( 78 knots) CAS"

- (17) (Model 7ACA)

"Do not exceed 129 TIAS."

"Occupy front seat when flying solo."

- (c) On left side of fuselage, next to rear seat:

- (1) (Model 7HC)

"Maximum rear seat load, 250 lb. Remove rear stick with two occupants."

- (2) (Model 7GCB) (When using adjustable rear seat)

"Maximum rear seat load, 250 lb. Remove rear stick with two occupants."

- (d) On cabin door rear window:

- (1) (Model 7GCBA)

"Restricted."

- (e) On top of hopper in plain view of ground crew filling the hopper:

- (1) (Model 7GCBA)

"Maximum hopper load 900 lb."

NOTE 3. Mandatory inspection times for strut attach fitting 3-1692 (7ECA, 7GCAA, 7GCBC, and 7KCAB) on metal spar winged aircraft must be inspected in accordance with American Champion Aircraft Airworthiness Limitations, dated May 9, 1996 or later FAA approved revision.

NOTE 4. All Model 7AC airplanes are eligible with the engine installations listed under Sections III, IV, V and VIII, when accomplished in accordance with the following Champion Service Letters:

- No. 13 7AC to 7BCM
- No. 14 7AC to 7DC
- No. 15 7AC to 7CCM
- No. 56 7AC to 7EC

All Model 7EC airplanes are eligible with the engine installations listed under Section IX when accomplished in accordance with the following Champion Service Letters:

- No. 60 7EC to 7GC

When making this conversion, the nameplate in the airplane must be restamped with the proper model designation and the letters "CONV" added. The airplane serial number should not be changed.

NOTE 5. Military S/N AAF 47-788 thru AAF 47-1296 eligible as 7BCM. Military S/N AAF 48-424 thru AAF 48-524 eligible as 7CCM. The nameplate in the airplane must be stamped with the proper model designation. S/N 47-788 thru 47-1296 eligible as 7CCM if converted in accordance with Aeronca Service Letter No. 15.

NOTE 6. (a) On aircraft S/N 7EC-732 thru 773-397 thru 472, 7GC-171, 7GCB-17 thru 194, 7HC-30 thru 39, 7JC-18 thru 25, 7KC-1 thru 4, level as follows: level aircraft laterally and longitudinally using the three leveling lugs projecting through the left hand front floorboard.

(b) On aircraft S/N's 7EC-774, 7ECA-1 and up, 7GC-172, 7GCA-172, 7GCAA-1 and up, 7GCB-195, 7GCBA-1, 7GCBC-1 and up, 7JC-26, 7KC-4, 7KCAB-1 and up, level as follows: drop plumb line from wing leading edge so that top oleo retaining bolt center line is 1/4 inch forward of wing leading edge.

(c) On aircraft S/N's 7FC-473 and up, 7HC-40 and up, level as follows: drop plumb line from wing leading edge and measure 10-5/16 inches to aft face of front wing strut lug.

(d) Models 7ECA, 7GCAA, 7GCBC, 7KCAB, 7ACA - Aircraft with spring steel gear installed, level as follows: drop plumb line from wing leading edge so that it is 10.19 inches forward of front face of fuselage wing strut fittings.

NOTE 7. S/N's 7FC-2 thru 7FC-430 of model 7FC are eligible for item 201(e) wide track main gear when modified per Champion Service Letter No. 45.

NOTE 8. All 7JC aircraft are eligible for conversion to model 7EC at 1500 lb. maximum weight when modified per Champion Service Letter No. 49.

NOTE 9. S/N's 7HC-1 thru 7HC-32 of model 7HC are eligible for item 201(e) wide track main gear when modified per Champion Service Letter No. 50.

NOTE 10. Model 7GCB eligible for acrobatic maneuvers listed in NOTE 2(b)(12), Model 7ECA and 7GCAA eligible for acrobatic maneuvers listed in NOTE 2(b)(13), Model 7GCBC eligible for acrobatic maneuvers listed in NOTE 2(b)(14), and Model 7KCAB eligible for acrobatic maneuvers listed in NOTE 2(b)(15) when Quick Release Door is installed per Champion dwg. 4-1203.

As a replacement item on acrobatic category 7ECA, 7GCAA, 7GCB, 7GCBC, 7KCAB aircraft,

the

following metal-to-metal type seat belts should be installed in lieu of metal-to-fabric cam type buckle seat belts to preclude inadvertent release during acrobatics:

1. Rubert Parachute Company, Model 65 (or 82)
2. Cummings and Sander Model CS 9700-AC-50
3. Equivalent TSO approved belt with metal-to-metal buckle

NOTE 11. In order to comply with the requirements of Part 36 of the Federal Aviation Regulations,

revised

engine limits have been established for the Model 7GCBC seaplane (S/N 1198-80 and up). The revised limits are:

- Engine limits: Maximum normal operating, 2500 r.p.m. (118 hp.)
- For all other operations, 2700 r.p.m. (150 hp.)

NOTE 12. Effective March 1, 1979, each Model 7ECA, 7GCAA, and 7GCBC airplane contains as FAA Approved Airplane Flight Manual which is part of the required equipment. The AFM must remain in the airplane during aircraft operations.

Airplane Flight Manuals are required for the following airplanes:

<u>Model</u>	<u>Beginning Serial Number</u>
7ECA	1295-79
7GCAA	378-79
7GCBC	1108-79 Only 1110-79 Any 7GCBC retrofit with 7-1545 wings

NOTE 13. The following changes apply to 7GCBC aircraft built in 1994 and later (all with 7-1545 wings). C.G. Range and Maximum Weight changes apply to any 7GCBC that retrofits with 7-1545 wings except for airplanes with optional engine item 122.

C.G. Range: Landplane: (+14.2) to (+19.2) at 1800 lb.  
(+10.5) to (+19.2) at 1325 lb. or less  
When performing acrobatic maneuvers, the C.G. range shall be limited to:  
(+14.2) to (+16.3) at 1800 lb.  
(+10.5) to (+16.3) at 1350 lb. or less  
Straight line variation between points given.  
Maximum Weight, Landplane: 1800 lb.  
Serial Nos. Eligible 1200-94 thru 1202-94, 1203-95 and up

For Serial Nos. 1360-2004 and up with optional engine item 126 or 127; when performing acrobatic maneuvers (see Note 10) the airplane must be loaded as shown above. The airplane may otherwise be operated in the Normal category as shown below.

C.G. Range Landplane: (+15.4) to (+19.2) at 1950 lb.  
(+10.5) to (+19.2) at 1325 lb. or less  
Straight line variation between points given.  
Maximum Weight, Landplane 1950 lb.  
Required Equipment Item 126 or 127

NOTE 14. Aircraft having sprayer or duster installations which are listed in this specification as being eligible for certification and were certificated in the restricted category prior to October 11, 1950, may continue to be operated with the following additional limitations:

	<u>Models</u> <u>7AC &amp; 7BCM</u>	<u>Models</u> <u>7CCM &amp; 7DC</u>	<u>Models</u> <u>7EC</u>
(a) Maximum takeoff weight (lb.)	1300	1430	1595
Maximum landing weight (lb.)	1340	1340	1450
Maneuvering speed m.p.h. True Ind. (at max. wt.)	89	95	97

(b) The following placard must be in full view of the pilot:

"Maneuvering speed at maximum weight not to exceed (see NOTE 3(a)) m.p.h. -  
Intentional spins prohibited."

The C.G. range restricted certification is the same as that listed for each model in standard category except the restricted maximum weight value is substituted in lieu of the standard maximum weight.

All original certification in the restricted category after October 11, 1950, must be in accordance with CAR 8 and CAM 8.

NOTE 15. The following changes apply to 7ECA and 7GCAA aircraft built in 1995 and later (all with 7-1566 wing frames).

C.G. Range and Maximum Weight changes also apply to any 7ECA, 7GCAA, or 7KCAB that retrofits with 7-1566 wing frames or 7-1567 covered wing frames.

C.G. Range:	Landplane:	(+14.2) to (+19.2) at 1750 lb. (+10.5) to (+19.2) at 1325 lb. or less
		When performing acrobatic maneuvers, the C.G. range shall be limited to:
		(+14.2) to (+16.3) at 1750 lb. (+10.5) to (+16.3) at 1325 lb. or less
		Straight line variation between points given.
Maximum Weight	Landplane:	1750 lb.
Serial Nos. Eligible	7ECA:	1355-95 and up
	7GCAA:	400-97 and up

NOTE 16. The following changes apply to 7EC aircraft built in 2006 and later

Engine	Continental O-200-A or O-200-D				
Fuel	80 minimum grade aviation gasoline (O-200-A) 100LL minimum grade aviation gasoline (O-200-D)				
Engine Limits	For all operations, 2750 r.p.m. (100 hp.)				
Airspeed Limits	Level flight or climb	100 m.p.h. (87 knots)	True Ind.		
	Glide or dive	135 m.p.h. (117 knots)	True Ind.		
C.G. Range	Normal Category:	(+14.0) to (+19.2) at 1320 lb. (+11.0) to (+19.2) at 1100 lb. or less			
	Utility Category:	(+14.0) to (+18.2) at 1320 lb. (+11.0) to (+18.2) at 1100 lb. or less			
		Straight line variation between points given.			
Empty wt.					
C.G. Range	None				
Maximum Weight	1320 lb.				
No. of Seats	2 (1 at +11.5, 1 at +43) 2 (1 at +11 to +14 with item 404(n), 1 at +43)				
Maximum Baggage	100 lbs. at +69				
Fuel Capacity	18 gal. At +24.5				
Oil Capacity	6 qt. at -35 (O-200-A) 5 qt at -35 (O-200-D)				
Control Surface					
Movements	Elevator	Up	24 <sup>0</sup>	Down	24 <sup>0</sup>
	Elevator Trim Tab	Up	17.5 <sup>0</sup>	Down	37.5 <sup>0</sup>
	Ailerons	Up	28.5 <sup>0</sup>	Down	18 <sup>0</sup>
	Rudder	Right	25 <sup>0</sup>	Left	25 <sup>0</sup>
Serial Nos. Eligible	1000-2006 and up				
Required Equipment	Items 25, 111(i), 118(f), 201(o), 202(g), 307(w), 311(e), 409(d)				

-- END --