

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

|                   |       |       |
|-------------------|-------|-------|
| A-759             |       |       |
| Revision 67       |       |       |
| 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 |
| June 3, 2005      |       |       |

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

1 - 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.

|          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
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|                           |                              |       |                   |      |                   |
|---------------------------|------------------------------|-------|-------------------|------|-------------------|
| 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<br>(For fixed pitch propeller) | Static rpm at maximum permissible throttle setting:<br>Not over 2200, not under 1960. No additional tolerance permitted.<br>Diameter: not over 76 in., not under 70 in.   |                                  |                   |      |                   |
| C.G. Range                                      | (+10.9) to (+19.5)  |                                  |                   |      |                   |
| Empty wt.<br>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<br>(For fixed pitch wood propeller) | Static rpm at maximum permissible throttle setting:<br>Not over 2450, not under 2200. No additional tolerance permitted.<br>Diameter: not over 72 in., not under 70 in.      |                                  |  |  |  |
| C.G. Range   | (+10.4) to (+19.7)   |                                  |  |  |  |
| Empty wt.<br>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.<br>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.<br>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:<br>Not over 2410, not under 2170. No additional tolerance permitted.<br>Diameter: not over 72 in., not under 70 in.  |                   |      |                   |      |                 |                   |    |                   |      |                   |          |    |                   |      |                 |        |       |                 |      |                 |
| C.G. Range  | (+16.8) to (+20.0) at 1300 lb.<br>(+10.0) to (+20.0) at 1087 lb. or less<br>Straight line variation between points given.  |                   |      |                   |      |                 |                   |    |                   |      |                   |          |    |                   |      |                 |        |       |                 |      |                 |
| Empty wt.<br>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.<br>C.G. range at 1350 lb. is as follows:<br>(+16.8) to (+20.4) at 1350 lb.<br>(+10.0) to (+20.4) at 1087 lb. or less<br>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.<br>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.<br>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:<br>Not over 2465, not under 2300. No additional tolerance permitted.<br>Diameter: not over 72 in., not under 70 in. |

|                            |  |       |                   |                        |
|----------------------------|--|-------|-------------------|------------------------|
| C.G. Range                 | (+16.8) to (+20.0) at 1300 lb.<br>(+10.0) to (+20.0) at 1087 lb. or less<br>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.<br>C.G. range at 1350 lb. is as follows:<br>(+16.8) to (+20.4) at 1350 lb.<br>(+10.0) to (+20.4) at 1087 lb. or less<br>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.<br>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:<br>Not over 2440, not under 2290. No additional tolerance permitted.<br>Diameter: not over 72 in., not under 70 in. |                                  |                   |                        |
| C.G. Range  | (+16.8) to (+20.3) at 1400 lb.<br>(+10.4) to (+20.3) at 1189 lb. or less<br>Straight line variation between points given.   |                                  |                   |                        |
| Empty wt.   |   |                                  |                   |                        |
| 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<br>(For fixed pitch<br>wood propeller) | Static rpm at maximum permissible throttle setting:  |                        |                   |                        |                 |
|   | Not over 2410, not under 2170. No additional tolerance permitted.<br>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<br>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<br>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<br>(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.

|   |   |                        |           |  |
|---|---|------------------------|-----------|--|
| 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<br>(For fixed pitch<br>wood propeller) | Static rpm at maximum permissible throttle setting:   |                        |           |  |
|   | Not over 2350, not under 2125. No additional tolerance permitted.<br>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<br>Straight line variation between points given.<br>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).<br>C.G. range at 1300 lb. is as follows:<br>(+16.8) to (+19.2) at 1300 lb.<br>(+10.2) to (+19.2) at 1100 lb. or less<br>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:<br>(+15.0) to (+19.2) at 1500 lb.<br>(+10.2) to (+19.2) at 1190 lb. or less<br>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.<br>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.<br>(+10.4) to (+18.6) at 1258 lb. or less<br>Straight line variation between points given.<br>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).<br>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:<br>Not over 2350, not under 2125. No additional tolerance permitted.<br>Diameter: not over 72 in., not under 70 in.                        |                        |           |  |
| C.G. Range  | (+15.0) to (+17.2) at 1450 lb.<br>(+10.2) to (+17.2) at 1190 lb. or less<br>Straight line variation between points given.<br>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)<br>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)<br>C.G. range at 1500 lb. is as follows:<br>(+15.0) to (+18.5) at 1500 lb.<br>(+10.2) to (+18.5) at 1190 lb. or less<br>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).<br>(201(e) and 210(b) also required for 1500 lb. maximum weight).<br>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).<br>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.)<br>Maximum continuous 2600 r.p.m. (135 hp.)   |
| Airspeed Limits            | Landplane: Level flight or climb 120 m.p.h. (104 knots) True Ind.<br>Glide or dive 162 m.p.h. (141 knots) True Ind.<br>Seaplane with item 204(c) installed:<br>Level flight or climb 120 m.p.h. (104 knots) True Ind.<br>Glide or dive 137 m.p.h. (119 knots) True Ind.  |
| C.G. Range                 | Landplane: (+14.2) to (+17.7) at 1650 lb.<br>(+10.4) to (+17.7) at 1250 lb. or less<br>Seaplane: (+14.45) to (+17.7) at 1732 lb.<br>(+11.9) to (+17.7) at 1450 lb. or less<br>Straight line variation between points given.  |
| Empty wt.                  |  |
| C.G. Range                 | None   |
| Maximum Weight             | Landplane: 1650 lb.<br>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° Down 24°<br>Elevator Trim Tab Up 17.5° Down 37.5°<br>Ailerons Up 27.5° Down 19°<br>Rudder Right 25° Left 25°   |
| 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).<br>(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)<br>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.<br>Glide or dive 162 m.p.h. (141 knots) True Ind.                  |
| C.G. Range      | (+14.2) to (+17.7) at 1650 lb.<br>(+10.2) to (+17.7) at 1230 lb. or less<br>Straight line variation between points given. |
| Empty wt.       |   |
| 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>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      | 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>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 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.<br>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   | <table border="0"> <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>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>Flaps</td> <td>Up</td> <td>0<sup>0</sup></td> <td>Down</td> <td>21<sup>0</sup></td> </tr> <tr> <td colspan="5">(with flap control system installed per Champion dwg. 7-1131 and horizontal tail surfaces per Champion dwg. 4-1410, 4-1411, 4-1412)</td> </tr> <tr> <td>Rudder</td> <td>Up</td> <td>0<sup>0</sup></td> <td>Down</td> <td>35<sup>0</sup></td> </tr> <tr> <td></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> | 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> |
| 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 (Items)  | Landplane: 11(b), 102(d), 118(b), 119, 120(b), 201(a) or (b), 202<br>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.<br>Glide or dive 162 m.p.h. (141 knots) True Ind.  |                   |      |                 |      |                 |                   |    |                   |      |                 |          |    |                   |      |                 |        |       |                 |      |                 |
| C.G. Range                | (+14.2) to (+18.6) at 1650 lb.<br>(+11.9) to (+18.6) at 1406 lb. or less<br>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 | <table border="0"> <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>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> | 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> |      |                 |                   |    |                   |      |                 |          |    |                   |      |                 |        |       |                 |      |                 |
| 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.<br>Glide or dive 121 m.p.h. (105 knots) True Ind.<br>Flaps extended 90 m.p.h. ( 78 knots) True Ind.   |
| C.G. Range                | (+15.0) to (+22.5) at 2400 lb.<br>(+10.5) to (+22.5) at 1325 lb. or less<br>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><br>Elevator Trim Tab Up 17.5 <sup>0</sup> Down 44 <sup>0</sup><br>Ailerons Up 27.5 <sup>0</sup> Down 19 <sup>0</sup><br>Flaps Up 0 <sup>0</sup> Down 21 <sup>0</sup><br>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 or 124 for optional engine)   |
| 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.<br>Glide or dive 162 m.p.h. (141 knots) True Ind.<br>Seaplane with Item 204(c) installed:<br>Level flight or climb 114 m.p.h. ( 99 knots) True Ind.<br>Glide or dive 137 m.p.h. (119 knots) True Ind.   |
| C.G. Range      | Landplane: (+14.2) to (+19.2) at 1650 lb.<br>(+10.2) to (+19.2) at 1325 lb. or less<br>When performing acrobatic maneuvers, the C.G. range shall be limited to:<br>(+14.2) to (+17.3) at 1650 lb.<br>(+10.5) to (+17.3) at 1325 lb. or less<br>Seaplane: (+14.2) to (+19.2) at 1732 lb.<br>(+10.5) to (+19.2) at 1407 lb. or less<br>Straight line variation between points given.<br>(See NOTE 15 for optional CG Range) |
| Empty wt.       |   |
| C.G. Range      | None  |
| Maximum Weight  | Landplane: 1650 lb. (See NOTE 15 for optional weight)<br>Seaplane: 1732 lb.   |
| No. of Seats    | 2 (1 at +12, 1 at +42)<br>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)<br>36 gal. at +24.5 (Item 123(a))<br>(see NOTE 1 for Weight of Unusable fuel)  |
| Oil Capacity               | 6 qt. at -44   |
| Control Surface Movements  | Elevator Up 24 <sup>0</sup> Down 24 <sup>0</sup><br>Elevator Trim Tab Up 17.5 <sup>0</sup> Down 37.5 <sup>0</sup><br>Ailerons Up 27.5 <sup>0</sup> Down 19 <sup>0</sup><br>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<br>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<br>(see Item 125 for optional engine)   |
| 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.<br>Glide or dive 162 m.p.h. (141 knots) True Ind.   |
| C.G. Range                | (+14.2) to (+18.2) at 1650 lb.<br>(+10.5) to (+18.2) at 1325 lb. or less<br>When performing acrobatic maneuvers, the C.G. range shall be limited to:<br>(+14.2) to (+16.0) at 1650 lb.<br>(+10.5) to (+16.0) at 1325 lb. or less<br>Straight line variation between points given.<br>(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)<br>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)<br>36 gal. at +24.5 (Item 123(a))<br>(see NOTE 1 for Weight of Unusable fuel)  |
| Oil Capacity              | 8 qt. at -36   |
| Control Surface Movements | Elevator (with Items 404(d) (e) installed) Up 28 <sup>0</sup> Down 24 <sup>0</sup><br>Elevator Trim Tab Up 24 <sup>0</sup> Down 24 <sup>0</sup><br>Up 17.5 <sup>0</sup> Down 44 <sup>0</sup><br>Ailerons Up 27.5 <sup>0</sup> Down 19 <sup>0</sup><br>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

For operation in the Acrobatic Category, see NOTES 2(b)(14) and 10. 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 13 concerning optional C.G. range and maximum weight.

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

|                               |   |
|-------------------------------|---|
| Required Equipment<br>(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<br>(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.<br>Glide or dive 162 m.p.h. (141 knots) True Ind.   |
| C.G. Range      | (+14.2) to (+18.2) at 1650 lb.<br>(+10.5) to (+18.2) at 1325 lb. or less<br>When performing acrobatic maneuvers, the C.G. range shall be limited to:<br>(+14.2) to (+16.0) at 1650 lb.<br>(+10.5) to (+16.0) at 1325 lb. or less<br>Straight line variation between points given.<br>(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)<br>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)<br>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><br>Elevator Trim Tab Up 17.5 <sup>0</sup> Down 44 <sup>0</sup><br>Ailerons Up 27.5 <sup>0</sup> Down 19 <sup>0</sup><br>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.<br>Glide or dive 129 m.p.h. (112 knots) True Ind. |
| Propeller Limits<br>(For fixed pitch wood propeller) | See Item 21 - Propeller and Propeller Accessories<br>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 | 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).<br>Paragraphs 23.25 and 23.959 of the Federal Aviation Regulations dated February 1, 1965 for Models 7ECA, 7GCAA, 7GCBC, and 7KCAB.<br>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.<br>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), and July 21, 1997 (7GCAA)   |
| 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 10 lb.
  - Models 7AC, 7BCM, 7CCM, 7DC (-52)
  - Models 7EC, 7FC, 7JC (-54)
  - (a) Sensenich 72C-44 (Models 7AC and S7AC)
  - Sensenich 72CK (Model 7BCM)
  - Sensenich 72CK-44, -45, -46 (Models 7DC, S7DC)
  - Sensenich 72GK-48, -49, -50 (Models 7CCM, 7EC, S7CCM, 7FC, 7JC)
  - (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)
  - Static r.p.m. at maximum permissible throttle setting:  
Not over 2250 (for 7AC), 2200 (for S7AC), not under 2100 (for 7AC or S7AC).  
No additional tolerance permitted.  
Diameter: not over 71 in., not under 69.5 in.
  - (b) (7BCM only)
  - Static r.p.m. at maximum permissible throttle setting:  
Not over 2450, not under 2350. No additional tolerance permitted.  
Diameter: not over 71 in., not under 69.5 in.
  - (c) (7DC only)
  - Static r.p.m. at maximum permissible throttle setting:  
Not over 2465, not under 2300. No additional tolerance permitted.  
Diameter: not over 71 in., not under 69.5 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. | McCaughey 1A172AGM76  | 35 lb. (-58) |
|     | (a) Model S7GCBC with Item 204(d) installed and O-320 Lycoming engine<br>Static r.p.m. at maximum permissible throttle setting:<br>(No additional tolerance permitted).<br>Not over 2550, not under 2450<br>Diameter: not over 76 in., not under 74.5 in.   |              |
| 20. | Sensenich 74DM6S8-1   | 37 lb. (-58) |
|     | (a) Models 7GCAA, 7GCBC, 7KCAB<br>Static r.p.m. at maximum permissible throttle setting:<br>(No additional tolerance permitted).<br>(Model 7GCBC with Item 204(d) installed and with O-320 Lycoming engine) not<br>over 2550, not under 2450<br>Diameter: not over 74 in., not under 72 in.<br>(Models 7GCAA, 7GCBC, 7KCAB) eligible for use only on aircraft equipped<br>with narrow lower end section steel spring gear P/N 7-1404<br>(Models 7GCAA, 7GCBC) not over 2640, not under 2300<br>(Model 7KCAB) not over 2540, not under 2300<br>(Model 7KCAB with Bendix fuel injector flow setting #2524723-1) not over<br>2500, not under 2300<br>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<br>Static r.p.m. at maximum permissible throttle setting:<br>(No additional tolerance permitted).<br>Not over 3050, not under 2750<br>Diameter: not over 60 in., not under 58.5 in.   |              |
|     | (b) Model 7ACA with Franklin 2A-120A engine<br>Static r.p.m. at maximum permissible throttle setting:<br>(No additional tolerance permitted).<br>Not over 3050, not under 2850<br>Diameter: not over 60 in., not under 58.5 in.   |              |
| 22. | Sensenich 72CK8S-0  | 28 lb. (-58) |
|     | (a) Models 7ECA with Lycoming O-235-K2C engine<br>Static r.p.m. at maximum permissible throttle setting:<br>(No additional tolerance permitted).<br>Not over 2530, not under 2215<br>Diameter: not over 72 in., not under 70.0 in.  |              |
| 23. | Sensenich 76EM8S8-0   | 41 lb. (-58) |
|     | (a) Model 7GCBC with O-360 Superior engine<br>Static r.p.m. at maximum permissible throttle setting:<br>(No additional tolerance permitted).<br>Not over 2550, not under 2350<br>Diameter: not over 76.25 in., not under 76 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   |             |
|      | (a) Models 7AC, 7BCM, 7CCM, 7DC (Aeronca dwg. 4-601)   | 2 lb. (-47) |
|      | (b) Models 7EC, 7FC, 7JC (Champion dwg. 4-877-3 with Marvel - Schebler<br>carburetor, Champion dwg. 4-877-4) |             |
|      | (c) Models 7GC, 7GCA, and 7HC (Champion dwg. 4-1031)   | 3 lb. (-37) |
|      | (d) Models 7GC, 7GCA, 7GCB, 7GCBA, 7HC, 7KC (Champion dwg. 4-1099)   | 4 lb. (-44) |
|      | (e) Model 7ECA with Continental O-200-A engine (Champion dwg. 4-1377)  | 1 lb. (-45) |
|      | (f) Models 7GCAA, 7GCBC (Champion dwg. 4-1637)   | 1 lb. (-33) |
|      | (g) Models 7ECA and 7GCBC with Lycoming O-235-C1 engine (Champion dwg.<br>4-1435)                            | 1 lb. (-33) |
|      | (h) Model 7KCAB (Champion dwg. 4-1454)   | 1 lb. (-33) |
|      | (i) Model 7ACA (Champion dwg. 4-1563)  | 1 lb. (-48) |
|      | (j) Models 7ECA, 7GCAA, 7GCBC (Champion dwg. 4-1637 box and 3-1535 cover)                                    | 1 lb. (-33) |
|      | (k) Model 7KCAB (Champion dwg. 4-1637 box and 3-1544 cover)  | 1 lb. (-33) |
| 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<br>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  |        |                |
|       | (a) Models 7AC, 7BCM, 7CCM, and 7DC (dwg. 7-557)<br>Note: Weight of exhaust stack removed to permit this installation, 4 lb., Model 7AC only.   | 13 lb. | (-40)          |
|       | (b) Models 7EC, 7FC, 7JC (dwg. 7-1056)  | 13 lb. | (-42)          |
| 106.  | Auxiliary fuel tank (5.5 gal. capacity)   |        |                |
|       | (a) Models 7AC, S7AC (Aeronca dwg. 7-565A)  | 11 lb. | (+58)          |
|       | (b) Models 7AC, S7AC, 7BCM, 7CCM, S7CCM, 7DC, S7DC, 7EC, S7EC (dwg. 7-1001, 7-796)<br>(weight per tank)<br>Note: Left and right tanks eligible. When two tanks are installed, placard (dwg. 1-3510) is required.          | 8 lb.  | (+19)          |
| 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<br>Model 7EC<br>Note: 2-957 restricted filter assembly required on Model 7EC with auxiliary wing tank fuel system installed.   |        | (-47)<br>(-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)          |
| 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 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)          |
| 119.  | 39 Gallon Fuel System   |        |                |
|       | Models 7ECA, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7KC<br>(Champion instln. dwg. 7-1099, 7-1102)   | 32 lb. | (+20)          |
|       | Model 7KCAB (Champion instln. dwg. 7-1099, 7-1314)  | 42 lb. | (+20)          |
|       | Models 7ECA, 7GCAA, 7GCBC, 7KCAB (Champion instln. dwg. 7-1328)   | 40 lb. | (+19)          |

120. Exhaust mufflers and heaters
- (a) For use with Item 102(c) carburetor air scoop (Champion instln. dwg. 7-1086) 15 lb. (-36)  
Models 7GC, 7GCA, 7HC
  - (b) For use with Item 102(d) carburetor air scoop (Champion instln. dwg. 7-1133) 15 lb. (-36)  
Models 7GC, 7GCA, 7GCB, 7GCBA, 7HC, 7KC
  - (c) For use with Item 102(f) carburetor air scoop (Champion instln. dwg. 7-1289) 15 lb. (-36)  
Models 7GCAA, 7GCBC
  - (d) For use with Item 102(g) carburetor air scoop (Champion instln. dwg. 7-1300) 14 lb. (-36)  
Model 7ECA (with Lycoming O-235-C1 engine)
  - (e) For use with Item 102(h) carburetor air scoop (Champion instln. dwg. 7-1302) 14 lb. (-36)  
Model 7KCAB
  - (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) 15 lb. (-42)  
Model 7ECA with Lycoming O-235-C1 engine
  - (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) 15 lb. (-42)  
Models 7GCAA, 7GCBC
  - (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) 15 lb. (-42)  
Model 7KCAB
  - (i) For use with Item 102(j) carburetor air scoop (Champion P/N 7-1483-2 and Inst. Dwg. 7-1530) 15 lb. (-42)  
Model 7ECA with Lycoming O-235-K2C engine
121. Vacuum pump
- (a) Airborne Mechanisms dry vacuum pump, Model 10-113-A1 (Champion instln. dwg. 7-1104) 3 lb. (-28)  
Models 7GC, 7GCA, 7GCB, 7GCBA, 7HC, 7KC
  - (b) Airborne Mechanisms dry vacuum pump, Model 113A5 (Champion instln. dwg. 7-1275) 5 lb. (-43)  
Model 7ECA with Continental O-200-A engine
  - (c) Airborne Mechanisms dry vacuum pump, Model 113A5 or 200CC (Champion instln. dwg. 7-1125) 5 lb. (-28)  
Models 7ECA, (with Lycoming O-235-C1 or O-235-K2C engine), 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7KC, 7KCAB
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) or (i), 117(i), 123(a), 201(i) or (l), 202.
125. Lycoming O-320-B2B engine (Models 7GCAA, 7GCBC) installed per Champion Dwg. 7-1289
- 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) or (l), 202  
 Original Equipment Serial Numbers: 400-97 and up (7GCAA)  
 1200-94 and up (7GCBC)
126. Superior O-360-A3A2 engine (Model 7GCBC) installed per Champion Dwg. 7-1581  
 Requires aircraft to be outfitted per Note 13
- 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. Landplane: 23(a), 102(j), 103(i), 117(j), 123(a), 201(n), 202  
 Original Equipment Eligible Serial Numbers: 1360-2004 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:  
6.00-6, 2 or 4-ply tires (Model 7AC only) 52 lb.  
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<br>6.00-6, 4-ply or 6-ply tires<br>(Models 7ACA)   | 29 lb.                               | (0)                        |
|      | (n) Cleveland wheel and brake assemblies (20-16) Champion Instln dwg. 7-1559, 4-2035 Spring Aluminum Gear<br>8.00-6, 4-ply tires<br>(Model 7GCBC with Superior O-360-A3A2 Engine)  | 35 lb.                               | (0)                        |
| 202. | Tail wheel assemblies (Models 7AC, 7BC, 7CCM, 7DC, 7EC, 7ECA, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 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 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:<br>"SKI CONTROL"<br>"UP-NEUTRAL-DOWN"  | 75 lb.<br><u>Retracted</u><br>(-6)   | <u>Extended</u><br>(-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:<br>"SKI CONTROL"<br>"UP-NEUTRAL-DOWN"   | 84 lb.<br><u>Retracted</u><br>(-6)   | <u>Extended</u><br>(-3.5)  |
|      | (i) Federal Model C-2200 wheel-ski combination (Champion instln. dwg. 7-1076) (Models 7EC, 7GC only)<br>Main skis and hydraulic components with LDR bottoms  | 106 lb.<br><u>Retracted</u><br>(-13) | <u>Extended</u><br>(-5)    |
|      | Main skis and hydraulic components with aluminum bottoms   | 96 lb.<br><u>Retracted</u><br>(-14)  | <u>Extended</u><br>(-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, 7GCBC)<br>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.<br>(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<br>Model 7GCBC with Lycoming O-320 engine and fitted for steel spring gear.  | 270 lb.                              | (+16)                      |
| 205. | Auxiliary fins - Seaplane  |                                      |                            |
|      | (a) Auxiliary Dorsal Fins (Champion P/N 4-634, Installation Dwg. 3-1067).<br>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<br>Four required for Pee-Kay 1800 Floats on Models 7GCB                               | 3 lb.<br>6 lb.                       | (+170)<br>(+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)<br>Two required for Pee-Kay 1800 Floats on Model 7ECA<br>Four required for Pee-Kay 1800 Floats on Models 7GCB and 7GCBC<br>Four required for Edo 89A2000 floats on Model 7GCBC with Lycoming O-320 engine | 3 lb.<br>6 lb.<br>6 lb.              | (+170)<br>(+170)<br>(+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)<br>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)<br>Models 7ECA, 7GCAA, 7GCBC, 7KCAB, 7ACA | 2 lb.  | (-10) |
|       | (f) Hydraulic brake instln. - Toe - (Champion dwg. 4-1624, 7-1307)<br>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) |

#### Electrical Equipment

|      |   |        |         |
|------|---|--------|---------|
| 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<br>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.<br>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)                                     | 22 lb. | (-27)   |
|      | Models 7EC, 7FC, 7JC  | 22 lb. | (-27)   |
|      | Model 7ECA with CMC O-200-A engine (instln. dwg. 7-1252)  | 23 lb. | (-26)   |
|      | Model 7ECA and 7GCBC with Lycoming O-235-C1 engine (instln. dwg. 7-1300)  | 22 lb. | (+54)   |
|      | (e) Exide AC-54 manifold vented, 12V 24 a. hr. (Champion instln. dwg. 3-1191)<br>(Model 7EC)                      | 22 lb. | (-27)   |
|      | (f) Exide AC-54 manifold vented, 12V 24 a. hr. (Champion instln. dwg. 4-1167)<br>(Model 7GCBA)                    | 33 lb. | (+82)   |
|      | (g) Exide AC-66 manifold vented, 12V 33 a. hr. (Champion instln. dwg. 7-1293)<br>Models 7GCAA, 7GCBC, 7KCAB       | 23 lb. | (-26)   |
|      | (h) Rebat S25, 12V 25 a. hr. (Champion instln. dwg. 7-1300) Models 7ECA, 7GCBC<br>(with Lycoming engine O-235-C1) | 33 lb. | (+82)   |
|      | (i) Rebat R35, 12V 35 a. hr. (Champion instln. dwg. 4-1469) Models 7GCAA,<br>7GCBC, 7KCAB                         |        |         |

|      |     |  |        |       |
|------|-----|--|--------|-------|
|      | (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) |
| 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) and 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  | 1 lb.  | (-2)  |



|      |   |        |        |
|------|---|--------|--------|
| 312. | Radio Equipment   |        |        |
| (a)  | Narco VHT-3 Superhomer radio instln.<br>(Champion dwg. 3-1063) Models 7EC, 7FC, 7GC, 7GCA, 7GCB, 7GCBA<br>(Champion dwg. 7-1103) Models 7EC, 7FC, 7GC, 7GCA, 7GCB, 7GCBA,<br>7HC, 7JC<br>(Champion dwg. 7-1167) Model 7KC<br>Cabin speaker instln. (optional) | 13 lb. | (-8)   |
| 313. | Rotating beacon   |        |        |
| (a)  | (Champion dwg. 4-1020) Models 7EC, 7ECA, 7FC, 7GCA, 7GCAA, 7GCB,<br>7GCBA, 7GCBC, 7HC, 7JC, 7KCAB   | 2 lb.  | (+180) |
| (b)  | (Champion dwg. 7-1149) Model 7KC  | 3 lb.  | (+182) |
| (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<br>7ECA, 7GCAA, 7GCBC, 7KCAB   | 4 lb.  | (-4)   |
| (c)  | Aeroflash P/N 156-0003 per Champion dwg 3-1517, Models 7ECA, 7GCAA,<br>7KCAB, or per Champion dwg. 3-1668, Model 7GCBC  | 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,<br>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,<br>7GCBC   | 13 lb. | (+16) |
| (e)  | Adjustable hinged rear seat, Champion dwg. 7-1261, Models 7ECA, 7GCAA,<br>7GCBC  | 13 lb. | (+46) |
| (f)  | Parachute seat with seat pack parachute and cushions, front (Champion instln.<br>dwg. 7-1279) Models 7ECA, 7GCAA, 7GCBC, 7KCAB           | 33 lb. | (+15) |
| (g)  | Parachute seat with seat pack parachute and cushions, rear (Champion instln.<br>dwg. 7-1279) Models 7ECA, 7GCAA, 7GCBC, 7KCAB            | 33 lb. | (+45) |
| (h)  | Parachute seat instln. with cushions, without seat pack parachutes - front<br>(Champion dwg. 4-1403-10) Models 7ECA, 7GCAA, 7GCBC, 7KCAB | 13 lb. | (+16) |
| (i)  | Parachute seat instln. with cushions, without seat pack parachutes - rear<br>(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,<br>7GCBC, 7KCAB, 7ACA  | 11 lb. | (+16) |
| (k)  | Rear seat installation (Champion dwg. 4-1403-11) Models 7ECA, 7GCAA,<br>7GCBC, 7KCAB, 7ACA   | 11 lb. | (+46) |
| (l)  | Front seat installation (Champion dwg. 4-1642) Models 7ECA, 7GCAA, 7GCBC,<br>7KCAB   | 11 lb. | (+16) |
| (m)  | Rear seat installation (Champion dwg. 4-1642) Models 7ECA, 7GCAA, 7GCBC,<br>7KCAB  | 11 lb. | (+46) |
| (n)  | Adjustable front seat installation (Champion Drawing 7-1499) Models 7ECA,<br>7GCAA, 7GCBC, 7KCAB   | 15 lb. | (+16) |
| (o)  | Rear seat installation (Champion Drawing 4-1708) Models 7ECA, 7GCAA,<br>7GCBC, 7KCAB   | 13 lb. | (+47) |
| (p)  | Wide Rear Seat Installation (Champion Drawing 4-1709) Models 7ECA, 7GCAA,<br>7GCBC, 7KCAB  | 18 lb. | (+47) |
| 405. | Soundingproofing (side panels, headlining and firewall)  |        |       |
|      | Models 7EC, 7JC  | 4 lb.  | (+22) |
|      | Model 7FC only   | 5 lb.  | (+10) |
|      | Models 7GC, 7GCA, 7GCB, 7HC  | 4 lb.  | (+24) |
| 406. | Alternate interior (includes upholstery, floormat and baggage compartment lid)<br>(Champion instln. dwg. 7-10003)                        |        |       |
|      | Models 7EC, 7JC  | 12 lb. | (+21) |
|      | Model 7FC  | 15 lb. | (+28) |
|      | Models 7GC, 7GCA, 7GCB, 7HC (minus baggage compartment lid)  | 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,<br>7JC  | 7 lb.  | (+20) |
| (c)  | (Champion instln. dwg. 7-1262 or 7-1293) Models 7ECA, 7GCAA, 7GCBC,<br>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)<br>Models 7ECA, 7GCAA, 7GCBC, 7KCAB                                     | 2 lb.  | (+79) |
| (b)  | SHARC 7 Emergency Locator Transmitter (Champion Inst. Drawing 3-1506)<br>Model 7ACA   | 2 lb.  | (+62) |
| (c)  | Larago Emergency Locator Transmitter (Champion Inst. Drawing 3-1590)<br>Models 7ECA, 7GCAA, 7GCBC, 7KCAB                                      | 3 lb.  | (+68) |
| (d)  | Ameri-King AK-450 or ACK Technologies E-01 Emergency Locator Transmitter<br>(Champion Inst. Drawing 3-1689), Models 7ECA, 7GCAA, 7GCBC, 7KCAB | 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.).<br>Placards required:<br>In full view of pilot: "All acrobatics including spins prohibited when spray rig installed."<br>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:<br>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.<br>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:<br>Placards on tank: "Allowable weight tank contents to be determined from weight and balance. Do not exceed 193 lb."<br>Disposable spray fluid.  | 54 lb. | (+33.5)<br>(+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.<br>Placards required:<br>In full view of pilot: "All acrobatics including spins prohibited when spray equipment installed."<br>On spray tank: "Allowable weight tank contents to be determined from weight and balance. Do not exceed 395 lb."  | 45 lb. | (+40)<br>(+29)   |
|       | Disposable spray fluid.   |        | (+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:

Fixed Pitch Wood Propellers

|           | <u>Model 7AC</u> | <u>Model 7EC</u> |
|-----------|------------------|------------------|
| Not over  | 2250             | 2350             |
| Not under | 2050             | 2200             |

Fixed Pitch Metal Propellers

Model 7EC

Not over 2350  
Not under 2200

Model 9 and 11 High Gallonage Sprayer:

Fixed Pitch Wood Propellers

|           | <u>Model 7AC</u> | <u>Model 7GC</u> |
|-----------|------------------|------------------|
| Not over  | 2250             | 2350             |
| Not under | 2200             | 2275             |

Fixed Pitch Metal Propellers

|           | <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)
- |   |         |         |
|---|---------|---------|
| (a) Hopper instln. only per Champion Installation dwg. 4-1167, 4-1182, 4-1194, 7-1163, 7-1169, 7-1172, 7-1178.                            | 101 lb. | (+33)   |
| (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
- | Model    | 4-867 Stab.<br>4-869 Elev. | 4-1413 Stab.<br>4-1414 Elev. | 4-1481 Stab.<br>4-1482 Elev. | 4-1481 Stab.<br>4-1671 Elev. |
|----------|----------------------------|------------------------------|------------------------------|------------------------------|
| 7ECA     | x                          | x                            | x                            | x                            |
| Seaplane | x                          | x                            | x                            | x                            |
| Skiplane | x                          | x                            | x                            | x                            |
| 7GCAA    |                            | x                            | x                            | x                            |
| Skiplane |                            | x                            | x                            | x                            |
| 7GCB     | x                          | x                            |                              |                              |
| 7GCBA    | x                          | x                            |                              |                              |
| 7GCBC    |                            | x                            | x                            | x                            |
| Seaplane |                            | x*                           | x**                          | x                            |
| Skiplane |                            | x                            | x                            | x                            |
| 7KCAB    |                            | x                            | 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<br>1110-79<br>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.

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

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><br><u>7AC &amp; 7BCM</u> | <u>Models</u><br><u>7CCM &amp; 7DC</u> | <u>Models</u><br><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

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