

Taylorcraft BK-65; N27440 S.N. 2082

4-13-60

From Bureau
 F.A.A. Inspector

To convert Taylorcraft KC-65, BC12-65, or BC12-D to 85 H.P., the following changes must be complied with:

1. All fuel lines must be changed from $\frac{1}{2}$ " I.D. to $\frac{5}{16}$ " I.D. This will make it necessary to install a new fuselage, since there is not enough stock in the Tillotson type to permit tapping for larger fittings.
2. Wing and fuselage tank must be inter-connected by vent lines.
3. An airtight gas cap must be used on fuselage tank, and the wing tank cap for this installation is part #B12A37 designed to provide adequate pressure for fuel flow. Since the fuselage tank must be airtight, a suitable gauge part, B35-1 must be installed.
4. The fiber bushing in the spar butt fittings will have to be changed $\frac{5}{8}$ " O.D. This necessitates re-drilling the spars.
5. The strut and butt fittings will have to be changed to .095 material to be as heavy as those employed in the BC12D-85.

A 90 H.P. substitution is not permissible.

If the same gross weight, CG range and placard limits of the BC-65 are retained, only items 1, 2, and 3 above must be accomplished. If the gross weight also is to be increased to 1500 lbs., then all items including 4 & 5 must be complied with.

The following is the required equipment and parts list:

Quantity	Part No.	Nomenclature
1	BA-809-L	Fittings-Strut-Front Spar
1	BR-809-R	Fittings-Strut-Front Spar
1	B-809-L	Strut-Fittings-Rear Spar
1	B-809-R	Strut-Fittings-Rear Spar
1	AA-806-L	Fittings-Butt Front Spar
1	AA-806-R	Fittings-Butt Front Spar
10	$\frac{5}{8}$ " O.D.	Fiber Bushings
1	B-905	Line Assy. Flex Fuel $1\frac{1}{2}$ " $\frac{5}{16}$ " I.D.
1	B-905-1	Line Assy. Flex Fuel $1\frac{1}{2}$ " $\frac{5}{16}$ " I.D.
2	A-450	Gas Tank Cap-Fuselage for 85 h.p.
1	Special B-A 37-3	Gas Tank Wing-Vented for 85 h.p.
1		Line Assy. Wing Tank $\frac{5}{16}$ " Aluminum
1		Vent Line-Copper
1		Fuel Strainer
1		Valve-Fuel Shut-off $\frac{5}{16}$ "
1		Connector-Fuel to Shut-off Assy.
2		Elbows - $\frac{5}{16}$ "
1		Elbow and Screen
1		Majestic Fuel Gauge
1		Flange-Gas Tank to Gauge
1		Screws-Fuel Gauge

The 337 covering this conversion should state, "Above modifications made in accordance with Taylorcraft, Inc., instructions".