

CHAMPION AIRCRAFT CORPORATION
Osceola, Wisconsin

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SERVICE LETTER #17

SUBJECT: Conversion of a Model 11AC to a Model 11EC airplane using a carburetor type engine.

GENERAL: Before starting to convert a Model 11AC to a Model 11EC airplane, it is very important that you have a copy of the latest revision of Aircraft Specification No. A-761. Copies may be obtained from the Information and Statistics Section of the Civil Aeronautics Administration, Washington 25, D.C.

DESCRIPTION OF CHANGES:

1. Engine Change.

- a. The Continental A-65-8F or A-65-8 engine is replaced with a Continental C-85-8F or C-85-8 carburetor engine.

NEW PARTS REQUIRED

1-2696	Connector - Flex Control	1
1-1776	Spring - Cylinder head baffle	1
1-3677	Nipple Assembly	1
7-572-3	Flexible Aluminum Tube	1
1-2712	Bolt - prop hub (Sensenich only)	6
1-2913	Clamp	1
2-898	Elbow	1
3-629	Baffle Assy-Engine L. Side	1
3-630	Baffle Assy-Engine R. Side	1
3-621	Baffle - Cylinder R. Rear	1
4-736	Baffle Assy - Engine R. Rear	1
4-738	Baffle Assy - Engine L. Rear	1
4-737-3	Baffle Assy - Engine L. Front	11
4-739	Baffle Assy - Engine R. Front	1
4-740	Baffle Assy - Crankcase Support	1
4-741	Baffle - Crankcase Lower L.	1
4-742	Baffle - Crankcase Lower R.	1
7-572	Blueprint	1
7-571	Blueprint	1

It is recommended that the #1-520-3B gascolator bowl be replaced with a #1-2991 quick drain gascolator bowl which incorporates a 1/8" N.P.T. #C.C.A. 1550 drain valve.)

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AN840-4	Adapter - Hose	1
7-469	Baffle - Left Crankcase	1
7-470	Baffle - Right Crankcase	1
7-471	Baffle - Upper Crankcase	1
7-475	Baffle - Right Rear Cylinder	1
7-476	Baffle - Left Rear Cylinder	1
7-477	Baffle - Right Front Cylinder	1
7-478	Baffle - Left Front Cylinder	1

- b. Hanlon Wilson mufflers are required on the converted airplane. (If the airplane is equipped with these mufflers before converting, it is not necessary to obtain the following parts.)

NEW PARTS REQUIRED

Kit #129	Muffler Installation - Complete	1
7-557	Blueprint	1

PARTS TO BE DISCARDED

7-485	Exhaust Stack - Left	1
7-486	Exhaust Stack - Right	1
3-478	Muff Half	2
3-479	Muff Half	2

2. Fuel System Change.

The present main fuel tank must be replaced with a modernized new type fuel tank. Note that a hole must be cut in the fuel tank support board to accommodate the sump in the bottom of the new tank.

NEW PARTS REQUIRED

7-511E	Tank - Main Fuel	1
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3. Cowling Modification.

Rework nose bowl and cowling in accordance with Service helps and Hints #26, Alteration #1.

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NEW PARTS REQUIRED

4-732	Lower Firewall Baffle	1
	Service Helps and Hints #26	1

NOTE: If a new nose bowl and hinged type cowling is desired, the following new parts are required in addition to the 4-732 lower firewall baffle, listed above.

NEW PARTS REQUIRED

4-476-6	Assembly - Nose Bowl	1
7-491	Cowling - Engine Lower	1
7-799	Cowling Assem. - Engine Upper	1
7-798	Blueprint (for minor firewall modification).	1

4. Fuselage Frame Modification.

- a. The addition of one "Clamp-on Dorsal Fin Tube" is required. After installation, the fin assembly should be covered and doped in accordance with CAA Manual No. 18.

NEW PARTS REQUIRED

7-792	Dorsal Fin - Clamp-on type	1
AN3-4A	Bolt	4
AN4-6A	Bolt	3
AN365-428	Nut	3
AN365-1032	Nut	4
AN960-10	Washer	4
AN960-416L	Washer	3
4-678	Blueprint	3
	Dope & Fabric	As Req'd

5. General Changes.

- a. The name plate in the airplane must be re-stamped with the proper model designation and the letters "CONV" indication it has been converted.

EXAMPLE: Model 11BC "CONV"

NOTE: Do not change airplane serial number.

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- b. Any of the following propellers may be used on Model 11BC airplanes.

Sensenich Model 72GK46
Sensenich Model 72GK48

McCauley Model CF7144
McCauley Model CF7146

(If above McCauley props are used, a placard "Avoid Continuous Engine Operation Between 1950 and 2170 RPM" must be installed on the instrument panel.)

If the above listed or other make or pitch propellers are used, the propeller installed must meet the diameter and static RPM limits listed for the Model 11BC in the specification (#A-761).

- c. Operating limits of the flight instruments are changed and should be remarked as follows:

Tachometer Red Line @ 2575 R.P.M.

- d. The placard stating "Intentional Spinning Prohibited While Baggage is Carried" may be removed on the converted airplane.

NOTE:(a) We wish to call your attention to the fact that the gross weight allowance of the Model 11BC remains at 1250 pounds.

(b) Note also that the C.G. range for the converted airplane is (+12.4) to (+21.5). The C.G. values as given are in inches aft of the wing leading edge.

All Champion parts and blueprints, required to make the above conversion, are now available and may be purchased from our parts Department.

Sincerely,

CHAMPION AIRCRAFT CORPORATION

Engineering Service Department

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