

CONTINENTAL IO-470-N

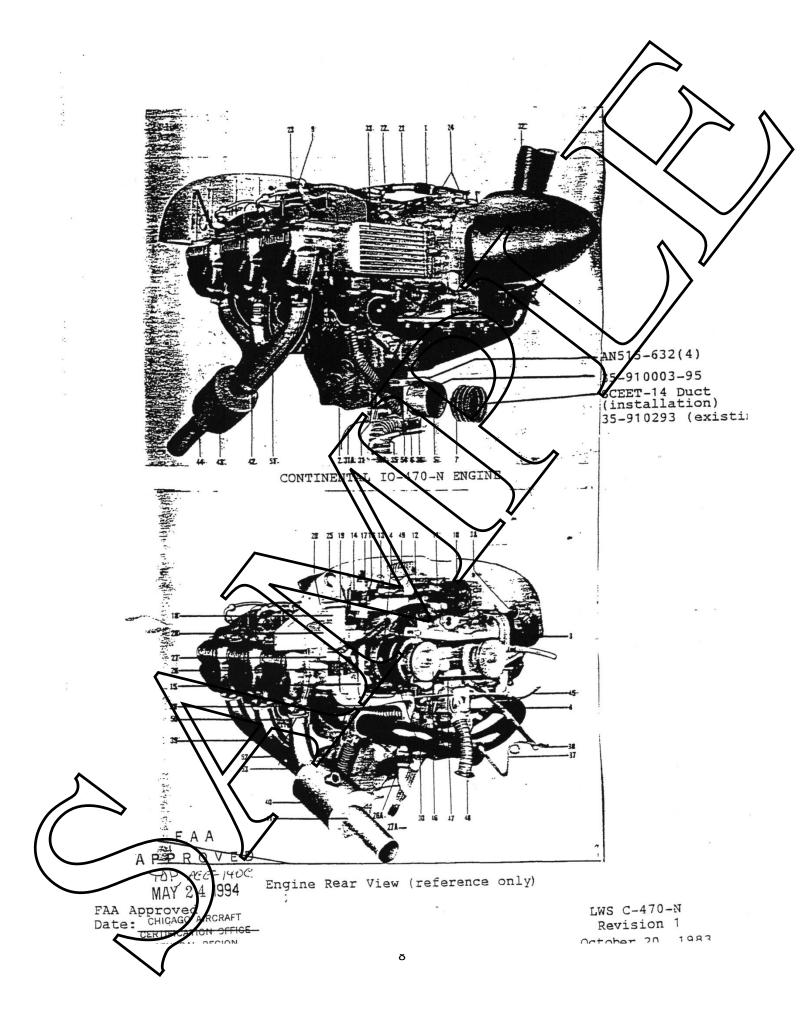
Installing a Continental IO-470-N engine in Beech Model J35, K35 and M35 Bonanza Aircraft.

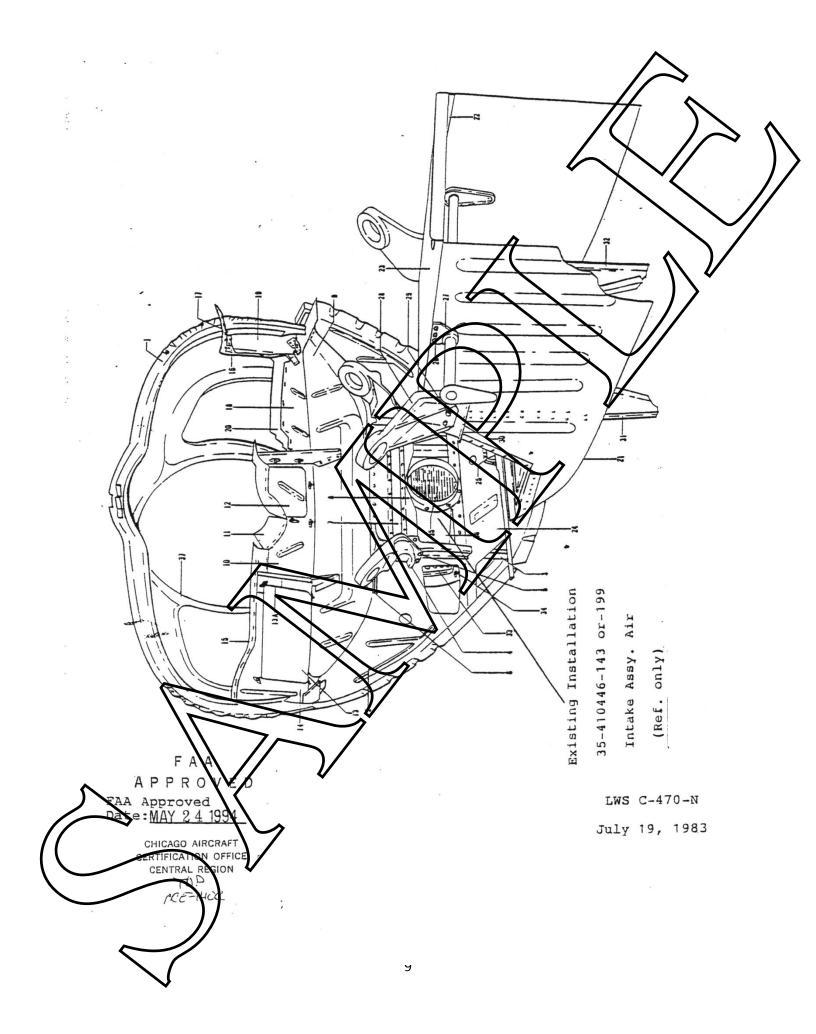
- 1. Remove the propeller and the existing Continental IO-470-C engine from the aircraft in accordance with Beech Shop Manua \$5-590096B, page 4-10B
- 2. Remove the starter (if necessary), generator, vacuum pump, propeller governor, exhaust system, baffles and attaching hardware; save for installation on the Continental IO-470-N.
- 3. Install the accessories, baffles and exhaust system removed from the Continental IO-470-C engine on the IO-470-N engine using the retained hardware. All components should be inspected and deemed airworthy prior to installation. Components deemed not airworthy should be overhauled, repaired or replaced accordingly.
- 4. Install IO-470-N engine assembly in the aircraft using new J-3518-2 Lord mounts (vibration isolators in accordance with Beech Shop Manual 35-590096B, page 4-10B.
- 5. Remove the induction housing assembly P/N 35-91003-95 from Continental IO-470-C fuel air body. Remove induction duct P/N 35-910293 from the air intake box on forward bulkhead, station 12.125. Reverse the housing and reinstall by fitting the flange where the duct flange was located and locating the four (4) screw boles. Attach the box using AN515-632 screws of the proper length. Install the SCEET-14 duct (six inches long) and secure each end with QS100M-56H clamps. Refer to illustrations, pages 8 and 9.

- 6. Install propeller and governor meeting specifications shown on page 10 through 12.
- 7. Modify existing instrumentation per applicable FAA approved Night Manual Supplement. Or install new ones with the appropriate markings.
- 8. Revise equipment list to show the installation of the Continental IO-470-N engine. Complete FAA Form 337 showing the installation of the Continental IO-470-N engine in accordance with STC SA5635SW. Complete weight and balance revision if necessary. Make an Aircraft Log Book Entry showing the IO-470-N engine installation in agreedance with STC SA5635SW, the equipment list revision, weight and balance computation and the date of FAA Form 337.

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LWS C-470-N Revision 2 September 16, 1992





PROPELLER SPECIFICATION from

FAA TYPE CERTIFICATE 3A15

Item

6. Beech constant speed propeller installation

(a) Beech 278-100-11 or 278-100-13 hub with

278-214-82 blades

Diameter: 82 inches, no cutoff permitted

Pitch settings at 33 inch station

Low: 13.5 degrees

High: not under 30.0 degrees

(b) Woodward hydraulic governor (210235 or 210350)

3 lb. (+10)

65 lb. (+1)

69 lb. (+1)

9. Flottorp constant speed propaller installation

(a) Flottorp F12A-3 with 8400 blades

Diameter: Not over or under 82 inches

no cutoff permitted

Pitch settings at 33 inch station.

Low: 13.5 degrees

High: 30.0 degrees minimum

(b) Woodward governor (210452)

3 lb. (+10)

(c) Flotton FS 200-1 Spinner Assembly

5 lb. (+1)



(a) McCauley 2A36C23 hub with 84-0 blades

Diameter: Not over 84 inches

not under 82 inches

Pitch settings at 30 inch station

Low: 13.3 degrees

High: 29.2 degrees

- (b) Woodward governor (210452 or A216680)
- (c) McCauley D3290A spinner assembly
- McCauley Constant Speed Propeller Installatio
 - (a) McCauley 2A37C223 Hub with 90RB 6 Plades

Diameter: Not over 84 in thes

not under 82 inches

Pitch settings at 30 inch station

Low: 13.3 degrees

High: 27.7 degrees

(b) Governor: McCarley 6290D3 [x] T35, Woodward

210452 a A210680 (2625 RPM)

(c) McCauley D3290A Spinner Assembly

4 lb. (+1)

3 lb. (+10)

3 lb. (+10)

62 lb. (+1)

4 lb.(+

- In tall propeller per McGauley Manual No. MPC-11
- McCauley Constant Speed Propeller Installation
 - (a) McCaule 3A34C423 Hub with 90DFA-10 Blades 70 lb. (+1)
 - Install per instructions and specifications set forth in D'Shannon Products STC \$\text{A1691GL} dated January 14, 1992.

LWS C-470-N July 19, 1983

