

DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION
WASHINGTON

E-233-2
CONTINENTAL
C-75-8, -8J, -8F, -8FJ, -8FH, -8FHJ
C-75-12, -12J, -12F, -12FJ, -12FH, -12FHJ
C-75-12B, -12BF, -12BFH
C-85-12, -12J, -12F, -12FJ, -12FH, -12FHJ

June 11, 1946

AIRCRAFT ENGINE SPECIFICATION

Engines of models described herein conforming with this specification and approved data on file with the Civil Aeronautics Administration are rated as airworthy for use in certificated aircraft in accordance with pertinent aircraft specifications.

| Manufacturer | Continental Motors Corporation, Muskegon, Michigan | | |
|---|---|--|---|
| Model | C-75-8 | C-75-12 | C-85-12 |
| Type | 4HOA | -- | -- |
| Rating | | | |
| Maximum, except take-off, hp, rpm, at sea level pressure altitude | 75-2275-S.L. | -- | 85-2575-S.L. |
| Take-off (one minute), hp, rpm, at full throttle | 75-2275 | -- | 85-2575 |
| Fuel (Min. oct. aviation gasoline) | 73 | -- | -- |
| Bore and stroke, in. | 4.062 x 3.625 | -- | -- |
| Displacement, cu. in. | 188 | -- | -- |
| Compression ratio | 6.3:1 | -- | -- |
| Weight (dry), lbs. | 177 | 182 | 180 |
| C.G. location (with accessories where eligible) | | | |
| Fwd. of mounting lug rear face, in. | 6.2 | 4.6 | -- |
| Below crankshaft, in. | 1.5 | 1.3 | -- |
| Propeller shaft, SAE No. (See Note 4) | 0 (Taper) | -- | -- |
| Carburetion | Stromberg NA-83A1 carburetor, Part No. 40059 | Stromberg NA-83A1 carburetor; Part No. 40059 or 24716 for gravity system, Part No. 36019 for pump system | Stromberg NA-83A1 carburetor; Part No. 40590 for gravity system, Part No. 40636 for pump system or Marvel-Shebler MA-35PA carburetor Part No. 40439 |
| Ignition, Dual | Bendix-Scintilla SF4R, SF4RN-8, or Eisemann LA-4 magnetos | Bendix-Scintilla SF4LN-8, or Eisemann LA-4 magnetos | Bendix-Scintilla SF4LN-8 or Eisemann LA-4 or Case 4-CAMA magnetos |
| Timing, °BTC | 28 top; 30 bottom | -- | -- |
| Spark plugs | Champion M-26, C-26, or C-26S | -- | -- |
| Oil sump capacity, qts. | 4 | -- | 5 |
| NOTES | 1,2,3,5 | 1,2,4,5 | 1,2,3,5 |

"--" indicates "same as preceding model"

Certification basis Type Certificate No. 233
Production basis Production Certificate No. 7

NOTE 1. Maximum permissible cylinder head, barrel, and oil inlet temperatures are as follows:

| | Head | Barrel | Oil Inlet |
|-------------|--------|--------|-----------|
| C-75 series | 550°F. | 300°F. | 220°F. |
| C-85 series | 530°F. | 300°F. | 220°F. |

NOTE 2. The following accessory provisions and typical engine accessories are eligible at the indicated weight increases:

| | Weight (lbs.) |
|--|---------------|
| Starter | |
| Delco-Remy (No. 1109656) Part No. 50309 (Models -12 only) | 16 |
| Generator | |
| Delco-Remy (No. 1101876), Part No. 40435 (Models -12 only) | 10 |
| Fuel Pumps | |
| AC Diaphragm type - Part No. 40585 (use with float type carburetor suitable for pump system) | 2 |
| AC Diaphragm type - Part No. 40281 (use with pressure type carburetor only, C-75-12B) | 2 |
| AC Diaphragm type - Part No. 40452 with adapter No. 50207, mounts on the fuel injector mounting pad only (use with float type carburetor suitable for pump system) | 2 |
| Miscellaneous | |
| Air filter and scoop, installation No. A-5810, or No. A-40522 | 3 |
| Propeller hub assembly, Part No. A-3746 (for fixed pitch wood propellers) | 4 |
| Shielded ignition | 3 |
| Harrison oil radiator Model HE431-9 (Part No. 40601) and adapter Part 4763 | 4 |