

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

3E3 Revision 5
CONTINENTAL
TSIO-470-B TSIO-470-C TSIO-470-D
November 1, 1973

TYPE CERTIFICATE DATA SHEET NO. 3E3

Engines of models described herein conforming with this data sheet (which is part of type certificate No. 3E3) and other approved data on file with the Federal Aviation Agency, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Civil Air Regulations provided they are installed, operated and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder                      Teledyne Continental Motors  
P.O. Box 90  
Mobile, Alabama    36601

Model    TSIO-470-B, -C, -D  
Type     6HOA

Rating, standard atmosphere  
  Max. continuous hp., r.p.m.,  
  in. Hg. at full throttle  
    Sea level pressure altitude            260-2600-35  
    Critical altitude of 16,000 ft.        260-2600-35  
  Takeoff (5 min.) hp., r.p.m.,  
  in Hg. at full throttle                    260-2600-35

Fuel (min. grade aviation gasoline)    100/130  
Lubricating oil, engine                    CMC -- Spec. MHS #24  
Lubricating oil, turbo                      CMC -- Spec. MHS #24  
Bore and stroke, in.                        5.00 x 4.00  
Displacement, cu. in.                        471  
Compression ratio                          7.5:1  
Weight (basic engine, dry), lb.            427  
Weight (turbo dry), lb.                      38  
C.G. location (basic engine)  
  Fwd. of rear face acc. case, in.        11.64  
  Below crankshaft centerline, in.      0.67  
  Beside crankshaft centerline  
  toward 1-3-5 side, in.                    0.1

C. G. location (turbo)                      See instal. dwg. 629137 for -B, 631906 for -C, -D  
Propeller shaft                                Special integral flange 4-7/8 in. O.D. with six 1/2 in. bolt holes in 4 in. diameter circle  
Fuel injection                                 CMC injector (Eq. #5834) for -B, (Eq. #5905) for -C, -D  
Ignition, dual magnetos                    One Scintilla S6RN-201 and one Scintilla S6RN-205, or two Scintilla S6RN-25  
Timing, °BTC                                  22  
Spark plugs                                     See NOTE 4  
Oil sump capacity, qt.                        12; 8 usable at 15° noseup and  
    5° nosedown attitudes

" \_\_\_ " indicates "does not apply"

Certification Basis                            CAR 13, effective June 15, 1956 and amendments 13-1 effective August 12, 1957, 13-2 effective May 17, 1958, 13-3 effective October 1, 1959  
Type Certificate No. 3E3, issued September 9, 1960 for -B; -C added March 29, 1963; -D added February 24, 1964  
Date of Application for Type Certificate June 3, 1960

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CMC No. 629135  
CMC No. 629278

- (d) CMC P/N AL-E6-5411 waste gate and throttle coordinator or equivalent shall be provided in the installation.

NOTE 9. Correction factors and/or curves for off standard day and induction ram conditions necessary for determining the horsepower are to be arrived at by flight testing of the aircraft until such time as they are made available by Continental Motors Corporation.

NOTE 10. The mounting of the turbocharger shall be approved by the engine manufacturer until adequate mounting instructions are included in FAA approved Continental Motors Corporation Installation Manual.

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