

**DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION**

E-236  
Revision 10  
CONTINENTAL  
C-115-1,-2  
C-125-1, -2  
November 15, 1973

**TYPE CERTIFICATE DATA SHEET NO. E-236**

Engines of models described herein conforming with this data sheet (which is part of Type Certificate No. E-236) and other approved data on file with the Federal Aviation Administration, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation 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	<u>C-115-1</u>	<u>C-115-2</u>	<u>C-125-1</u>	<u>C-125-2</u>
Type	6HOA	--	--	--
Rating, ICAO or ARDC standard atmosphere				
Max. continuous hp., r.p.m. full throttle, at sea level pressure altitude	115-2350	--	125-2550	--
Takeoff hp. (5 min.), r.p.m. full throttle, at sea level pressure altitude	125-2550	--	125-2550	--
Fuel (min. grade aviation gasoline)	73			
Lubricating oil:				
Oil inlet temperature	Oil Grade			
Below 120°F	SAE 20	--	--	--
Above 120°F	SAE 20	--	--	--
Bore and stroke, in.	4.062 x 3.625	--	--	--
Displacement, cu. in.	282	--	--	--
Compression ratio	6.3:1	--	--	--
Weight (dry), lb.	See NOTE 3	--	--	--
C.G. location (with starter and generator)				
Fwd. of rear mount bushing centerline, in.	6.09	--	--	--
Below propeller shaft, in.	1.50	--	--	--
Propeller shaft, SAE No.	10	3 Flanged	10	3 Flanged
Carburation	Marvel MA-3SPA P/N 10-2848	--	--	--
Ignition, dual magnetos	Bendix-Scintilla SF6LN-8, -12 S6LM-21 or Eisemann LA-6	--	--	--
Timing, *BTC	28	--	Right 28, Left 30	
Spark plugs	See NOTE 4	--	--	--
Oil sump capacity, qt.	8	--	--	--
NOTES	1, 2, 3, 4, 5	--	--	--

“-” indicates “same as” preceding model.

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Certification basis CAR 13 effective August 1, 1941  
Type Certificate No. 236 issued for C-115-1 and C-125-1 November 7, 1945;  
C-115-2 and C-125-2 added May 16, 1946.  
Application for Type Certificate dated June 8, 1945.

Production basis Production Certificates Nos. 7 and 508.

NOTE 1. Maximum permissible temperatures:  
Cylinder head bayonet thermocouple 550°F  
Cylinder barrel 300°F  
Oil inlet 220°F

NOTE 2. Pressure limits for normal operation:  
Oil - 30 - 40 p.s.i.g.

NOTE 3. The following accessory drive or mounting provisions are available:

<u>Accessory</u>	<u>Type of Drive</u>	<u>*Direction of Rotation</u>	<u>Speed Ratio to Crankshaft</u>	<u>Max.Torque (in.-lb.)</u>		<u>Maximum Overhang Moment (in.-lb.)</u>
				<u>Continuous</u>	<u>Static</u>	
Generator	Automotive	CC	2.035:1	50	600	100
**Starter	Automotive	C	35.77:1			
Fuel pump	Automotive diaphragm		0.500:1			

\*C - Clockwise viewing drive pad; CC - Counterclockwise.

\*\*Delco-Remy gear reduction drive and starter eligible on all models.

The following typical engine accessories are eligible at the indicated weight increases:

<u>Starter</u>	<u>Weight (lb.)</u>
Delco-Remy (Continental P/N 50309)	15
<u>Generator</u>	
Delco-Remy EX-33371 (Continental P/N 40435)	10
Delco-Remy No. 1101879 (Continental P/N X530190 (C-125-1, -2 only)	14
<u>Fuel Pump</u>	
AC diaphragm type No. 1539051 or Cont. No. 40585	2
<u>Miscellaneous</u>	
Air intake and filter assembly No. A-40692	3

NOTE 4. Dry weights are as follows:  
257 lb. with SF6LN-8 or -12 magnetos  
252 lb. with S6LN-21 or LA-6 magnetos

NOTE 5. The following spark plugs are approved for use on these engines:  
AC SR83IR, HSR83IR, SR83P, HSR3P, A88, S88,S88D, HS88, SR88, HSR88,  
Auto Lite SH2K, SH2M, H15, SH15, SH15R, ISA1, SH20, SH20A, SH200A,  
BG RB485S, 706, 706S, 706SR, 919SR5, RB955S  
Champion C26B, C27, C27S, C62S, REM40E, RHM40E, D41N, KD41N, M41N, EM41N, M42E,  
REM38P, RHM38P  
Firestone MA3S  
Red Seal SA130, SE190, SE230, SJ190, SJ230

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