

3-1. FOREWORD.

The E Series Teledyne Continental Aircraft Engines includes all engines of model designations E-165, E-185 and E-225. Dash numbers following the basic model number indicate variations in equipment, as described generally in Table II, to adapt the engines to various types of aircraft. Most parts are interchangeable between models, however, there are important differences in types of crankshafts, oil sump, accessory case, and accessory equipment. The service parts catalog provides detailed information as to application of the parts which are not used in all models, and it should be consulted whenever it becomes necessary to order parts for a specific engine. The following description will provide a general idea of the construction of each model and detailed information on the operation of the various engine systems. A close observation of the illustrations will aid in following the descriptions.

3-2. CRANKCASE.

The crankcase is composed of two aluminum alloy castings, joined at the lengthwise vertical center plane of the engine by twenty one bolts through holes in external top and bottom flanges and by ten through bolts in holes drilled through bolts in holes drilled through lateral stiffening webs. Recently, the lower parting flanges of Model E-185 crankcases were made thicker for additional rigidity. This change made it necessary to use longer $5/16$ inch attaching bolts, as indicated in the new Parts Catalog. The webs, cast integrally, have enlarged bosses which are line bored to provide seats for crankshaft main bearings and, below them, other bosses which are bored to act as camshaft bearings. The four main webs accommodate four bearings for each shaft. Lead coated, steel backed Tri-Metal precision inserts are installed in the four main bearing seats with the split matching the case parting surface. Each insert is retained by a tang which

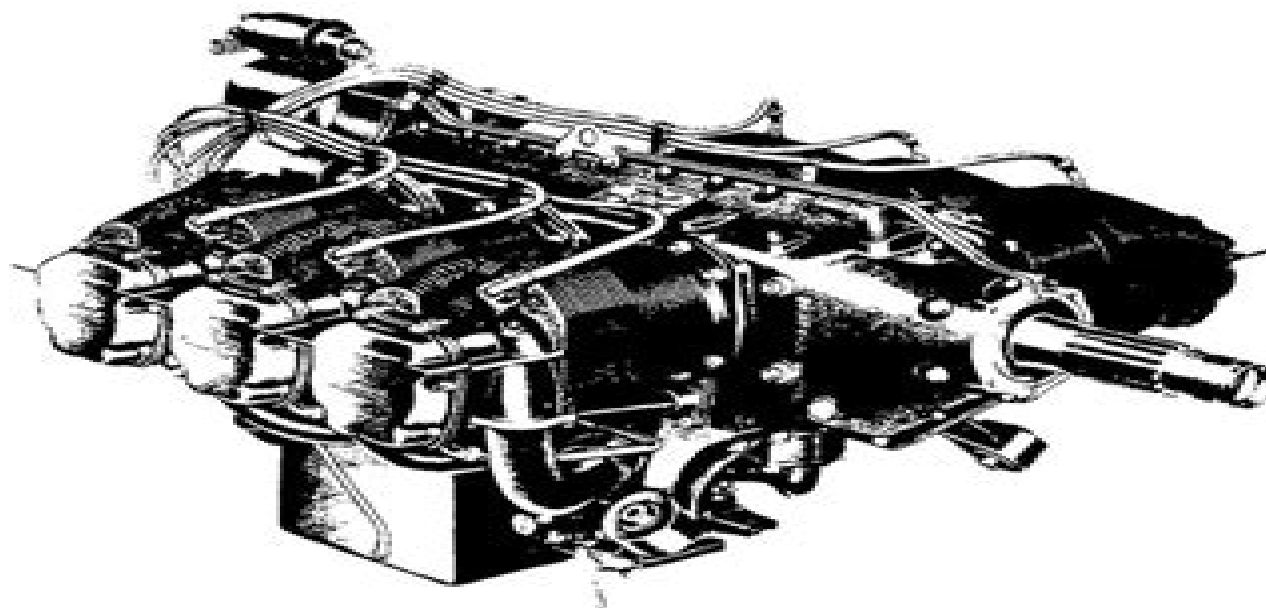


FIGURE 2. THREE-QUARTER RIGHT FRONT VIEW OF WET SUMP ENGINE.

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