

# Model View Illustrations

The following model views show typical features of the engine. Due to individual applications, your engine may appear different from the illustrations.

## Engine Views



Illustration 13

g06045642

### Typical example

- (1) Drive belt
- (2) Refrigerant compressor
- (3) Valve mechanism cover
- (4) Fuel pump
- (5) Breather outlet hose

- (6) NOx Reduction System (NRS) valve
- (7) Electronic control modules
- (8) Starting motor
- (9) Air intake
- (10) Secondary fuel filters

- (11) Adaptor of oil drain

# Engine Parts Manual

**United States. Office of Education**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the United States. Office of Education text.

## **Engine Parts Manual:**

MerCruiser 888 Engine Parts Manual Brunswick Corporation. Mercury Marine,1976      **MerCruiser 140 Engine Parts Manual** Brunswick Corporation. Mercury Marine,1977      *Kohler Engine Parts Manual Model K91* Kohler Technical Publications,      *MerCruiser 120 Engine Parts Manual* Brunswick Corporation. Mercury Marine,1977      MerCruiser 233 Engine Parts Manual Brunswick Corporation. Mercury Marine,1976      MerCruiser 470 Engine Parts Manual Brunswick Corporation. Mercury Marine,1977      MerCruiser 280 Engine Parts Manual Brunswick Corporation. Mercury Marine,1976      Technical Manual United States Department of the Army,1983      **Direct Support and General Support Maintenance Manual for Engine, with Container, Turbosupercharged, Diesel, Fuel Injection, 90-degree "V" Type, Air-cooled, 12-cylinder, Assembly; Models AVDS-1790-2C, 2815-00-410-1203 and AVDS-1790-2D, 2815-00-410-1204** ,1988      Technical Manual United States. War Department,1943      **MEP 805B / 815B Diesel Engine Repair Parts Manual TM 9-2815-259-24P** Brian Greul,2021-05-22 The MEP series of Military Generators are rugged durable and incorporate proven diesel engine technology This book is the diesel engine parts manual and also incorporates general and direct support instructions It is being republished to assist enthusiasts restorers and aftermarket owners who use or wish to use these generators outside of military use      *Aerojet Engine Service Manual* Aerojet-General Corporation,195?      **Manuals Combined" ARMY AIRCRAFT GAS TURBINE ENGINES** , COURSE OVERVIEW Fulfilling the Army s need for engines of simple design that are easy to operate and maintain the gas turbine engine is used in all helicopters of Active Army and Reserve Components and most of the fixed wing aircraft to include the Light Air Cushioned Vehicle LACV We designed this subcourse to teach you theory and principles of the gas turbine engine and some of the basic army aircraft gas turbine engines used in our aircraft today CHAPTERS OVERVIEW Gas turbine engines can be classified according to the type of compressor used the path the air takes through the engine and how the power produced is extracted or used The chapter is limited to the fundamental concepts of the three major classes of turbine engines each having the same principles of operation Chapter 1 is divided into three sections the first discusses the theory of turbine engines The second section deals with principles of operation and section III covers the major engine sections and their description CHAPTER 2 introduces the fundamental systems and accessories of the gas turbine engine Each one of these systems must be present to have an operating turbine engine Section I describes the fuel system and related components that are necessary for proper fuel metering to the engine The information in CHAPTER 3 is important to you because of its general applicability to gas turbine engines The information covers the procedures used in testing inspecting maintaining and storing gas turbine engines Specific procedures used for a particular engine must be those given in the technical manual TM covering that engine The two sections of CHAPTER 4 discuss in detail the Lycoming T53 series gas turbine engine used in Army aircraft Section I gives a general description of the T53 describes the engine s five sections explains engine operation

compares models and specifications and describes the engine's airflow path. The second section covers major engine assemblies and systems. CHAPTER 5 covers the Lycoming T55 gas turbine engine. Section I gives an operational description of the T55 covering the engine's five sections. Section II covers in detail each of the engine's sections and major systems. The SOLAR T62 auxiliary power unit (APU) is used in place of ground support equipment to start some helicopter engines. It is also used to operate the helicopter hydraulic and electrical systems when this aircraft is on the ground to check their performance. The T62 is a component of both the CH 47 and CH 54 helicopters; part of them, not separate like the ground support equipment APUs. On the CH 54, the component is called the auxiliary powerplant rather than the auxiliary power unit as it is on the CH 47. The two T62s differ slightly. CHAPTER 6 describes the T62 APU, explains its operation, discusses the reduction drive, accessory drive, combustion, and turbine assemblies, and describes the fuel, lubrication, and electrical systems. CHAPTER 7 describes the T63 series turboshaft engine, which is manufactured by the Allison Division of General Motors Corporation. The T63 A 5A is used to power the OH 6A, and the T63 A 700 is in the OH 58A light observation helicopter. Although the engine dash numbers are not the same for each of these, the engines are basically the same. As shown in figure 7-1, the engine consists of four major components: the compressor, accessory gearbox, combustor, and turbine sections. This chapter explains the major sections and related systems. The Pratt and Whitney T73 P 1 and T73 P 700 are the most powerful engines used in Army aircraft. Two of these engines are used to power the CH 54 flying crane helicopter. The T73 design differs in two ways from any of the engines covered previously. The airflow is axial through the engine; it does not make any reversing turns as the airflow of the previous engines did, and the power output shaft extends from the exhaust end. CHAPTER 8 describes and discusses the engine sections and systems. Constant reference to the illustrations in this chapter will help you understand the discussion.

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Examination I, **Small Engine Repair** United States. Office of Education, 1969 **Parts Manual** Caterpillar Inc. Peoria, Ill., 1992 *Bibliography of Scientific and Industrial Reports*, 1948 Index of Technical Manuals, Technical Regulations, Technical Bulletins, Supply Bulletins, Lubrications Orders, and Modification Work Orders United States. Department of the Army, 1954 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1975 **Index of Technical Publications** United States. Department of the Army, 1977

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