

Manual For 5a Engine

United States. Department of the Army

Manual For 5a Engine:

Aviation Unit and Intermediate Maintenance Manual ,1991 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 APU s 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 T62 s 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 TABLE OF CONTENTS 1 Theory and Principles of Gas Turbine Engines 2 Major Engine Sections 3 Systems and Accessories 4 Testing Inspection Maintenance and Storage Procedures 5 Lycoming T53 6 Lycoming T55 7 Solar T62 Auxiliary Power Unit 8 Allison T62 Pratt Whitney T73 and T74 and the General Electric T700 Examination I **Systems of Commercial Turbofan Engines** Andreas Linke-Diesinger, 2008-05-21 Systems of Commercial Turbofan Engines gives the reader information about the operation of the engine systems its components and the terminology used throughout the industry. The engine systems are explained by the use of examples from today s engines So the readers from aircraft mechanics to commercial pilot become familiar with the current technology in this field and attains a deeper knowledge of the systems of commercial turbofan engines To understand the operation of gas turbine engines used in aircraft it is not enough to understand the basic operation of a gas turbine It is also necessary to understand the operation and the design of its auxiliary systems This book is an introduction into the systems of modern commercial aircraft gas turbine engines It is made for the reader who is familiar with the basic Manuals Combined: 150+ U.S. Army Navy Air Force Marine Corps Generator operation of aircraft gas turbine engine Engine MEP APU Operator, Repair And Parts Manuals, Over 36 000 total pages Just a SAMPLE of the CONTENTS by File Number and TM Number 013511 TM 5 6115 323 24P 4 GENERATOR SET GASOLINE ENGINE DRIVEN SKID MOUNTED TUBULAR FRAME 1 5 K SINGLE PHASE AC 120 240 V 28 VDC LESS ENGINE DOD MODELS MEP 015A 60 HZ NSN 6115 00 889 1446 AND DOD MODEL MEP 025A 28 VDC 6115 00 017 8236 TO 35C2 3 385 4 SL 4 07609A 07610A 013519 TM 5 6115 329 25P 1 GENERATOR SET GASOLINE ENGINE DR LESS ENGINE 0 5 KW AC 120 240 V 60 HZ 1 PHASE DOD MODEL FSN 6115 923 4469 400 HZ MODEL MEP 019A 6115 940 7862 AN DC MODEL MEP 024A 6115 940 7867 TO 35C2 3 440 14 013537 TM 5 6115 457 12 7 GENERATOR SET ENGINE DRIVEN TACTICAL SKID MTD 100 KW 3 PHASE 4 WIRE 120 240 416 V DOD MODELS MEP 007A UTILITY CLASS 50 60 HZ NSN 6115 00 133 9101 MODEL MEP 106A PRECISE CLASS 50 60 H 6115 00 133 9102 MODEL MEP 116A PRECISE CLASS 400 KW 6115 00 133 9103 INCLUDING OPTIONAL KITS MODEL MEP 007 AWF WINTERIZATION KIT FUEL BURNING 6115 00 463 9082 MEP 007AWE WINTERIZATION KIT ELECTRIC 6115 00 463 9084 MODEL MEP 007A DUMMY LOAD KIT 6115 00 463 9086 AND MODEL MEP 007AWM WHEEL 013538 TM 5 6115 457 34 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID 100 KW 3 PHASE 4 WIRE 120 208 AND 240 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