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Gas Turbine Manual Gas Turbine Manual The Gas Turbine Manual Technical Manual, Direct and General Support Maintenance Manual Operator and Organizational Maintenance Manual Operator's and Unit Maintenance Manual Operator/crew and Organizational Maintenance Manual Direct Support and General Support Maintenance Manual Intermediate (direct and General Support) Maintenance Manual Gas Turbine Manual Direct Support and General Support Maintenance Manual U.S. Navy Gas Turbine Systems Technician Manual Manual on Requirements Handling and Quality Control of Gas Turbine Fuel The gas turbine manual, by R.J. Welsh and G.Waller Introduction to Marine Gas Turbines Aviation Unit and Aviation Intermediate Maintenance Manual Gas Turbine Engine Commercial Series Maintenance Manual Engine Training Manual for Model 250-C30 Allison Gas Turbines Manual for Gas Turbine Engine Assemblers Manual on Requirements Handling and Quality Control of Gas Turbinefuel Manuals Combined" ARMY AIRCRAFT GAS TURBINE ENGINES Manuals Combined: 50 + Army T-62 T-53 T-55 T-700 AVIATION GAS TURBINE ENGINE Manuals Manual on requirements, handling and quality control of gas turbine fuel Gas Turbine Engine Basic Training Course Operator's and Unit Maintenance Manual Aviation Unit and Aviation Intermediate Maintenance Manual Training Manual Maintenance Manual Operator and Organizational Maintenance Manual Enclosed Pneumatic Power Gas Turbine Engine Operator and Organizational Maintenance Manual Operator and Organizational Maintenance Manual Student Training Manual : Gas Turbine Engine T5313 Series, T53-L-13 Series Manual on Requirements Handling and Quality Control of Gas Turbine Fuel Manual on Requirements, Handling and Quality Control of Gas Turbine Fuel , A symposium presented at the Seventy-fifth Annual Meeting, American Society for

Testing and Materials (ASTM), Los Angeles, CA, June 25 - 30 1972 Operator and Organizational Maintenance Manual Intermediate (direct and General Support) Maintenance Manual MANUAL FOR GAS TURBINE ENGINE ASSEMBLIES. Training Manual, GTC Series Gas Turbine Compressor Engine Manual on Requirements, Handling and Quality Control of Gas Turbine Fuel

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**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 Over 70 (350+ Mbs) U.S. Army Repair, Maintenance and Part Technical Manuals (TMs) related to U.S. Army helicopter and fixed-wing turbine aircraft engines, as well as turbine power plants / generators! Just a SAMPLE of the CONTENTS: ENGINE, AIRCRAFT, TURBOSHAFT MODELS T700-GE-700, T700-GE-701, T700-GE-701C, 1,485 pages - TURBOPROP AIRCRAFT ENGINE, 526 pages - ENGINE, GAS TURBINE MODEL T55-L-712, 997 pages - ENGINE ASSEMBLY GAS TURBINE (GTCP36-150 (BH), GTCP36-150 (BH), 324 pages - ENGINE, AIRCRAFT, GAS TURBINE (T63-A-5A) (T63-A-700), 144 pages - ENGINE,

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