

The aircraft **GAS TURBINE ENGINE** and its operation



Ken Smith
Pratt & Whitney Aircraft

— DIVISION OF UNITED STATES AIRCRAFT CORPORATION —
U
A.

Turbine Engine Manual

United States. War Department



Turbine Engine Manual:

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; the engine's five sections explain 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 engines, they 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

Operator's and Unit Maintenance Manual ,1987 **The Turbine Pilot's Flight Manual** Gregory Neal Brown,Mark J. Holt,1995-01 The Turbine Pilot's Flight Manual provides the only complete understandable how things work explanation of turbine aircraft It is intended for pilots graduating to more sophisticated aircraft and pilots wanting to review or learn the basics of turbine engine flight It offers a complete description of turbine aircraft engines and systems covering turboprops and jets additional chapters on important related topics such as high speed aerodynamics multipilot crew coordination wake turbulence and high altitude weather coverage of pure jet operations large aircraft systems and other data needed by experienced pilots for review prior to recurrent upgrade or transition training and explanations intended for ex military jet jockeys of civilian flight operations aircraft and systems as well as turboprop and multipilot operations and transition training

Jet Engine Manual Eric Mangham,Alec Peace,1961 **Technical Manual** United States Department of the Army,1969 *Technical Manual* United States. War Department,1945 **U.S. Navy Gas Turbine Systems Technician Manual** , Jet Engine Manual Mangham,A. Peace,2006-01-01 This Little book a companion value to the Aero Engineer's Manual has been specially written for use for those engaged in the operation and maintenance of turbine aero engine An invaluable up to date work of reference for all connected with the operation and maintenance of turbine aero engines who requires answers to their questions in a simple form with a practical bias The Information which is presented in question and answer form deals in a practical way with civil and military turbo jet and turbo prop engines in current use

Gas Turbine Engine Basic Training Course Ford Motor Company. Industrial Power Products,1971 **Manuals Combined: 100+ U.S. Army CH-47A CH-47B CH-47C and CH-47D Chinook Helicopter Operator; Repair Parts And Special Tools List; Modification Word Order; One Time Inspection; Maintenance; And Maintenance Test Flight Manuals** , Well over 18 000 total pages Most manuals published by the Department of the Army with updates between 1999 and 2003 Contains Repair Repair Parts Special Tools Lists Maintenance Checklist and Flight related Technical Manuals and Bulletins for the CH 47A CH 47B CH 47C and CH 47D Chinook helicopter Just a SAMPLE of the CONTENTS AVIATION UNIT AND AVIATION INTERMEDIATE MAINTENANCE MANUAL CH 47D HELICOPTER 1 335 pages Aviation Unit and Aviation Intermediate

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Enlisted Qualifications Manual United States. Coast Guard,1990 Manuals Combined: 50 + Army T-62 T-53 T-55 T-700 AVIATION GAS TURBINE ENGINE Manuals , 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 AIRCRAFT GAS TURBINE MODEL T63 A 720 208 pages ENGINE AIRCRAFT TURBOSHAFT T703 AD 700 T703 AD 700A T703 AD 700B 580 pages ENGINE ASSEMBLY T700 GE 701 247 pages ENGINE ASSEMBLY GAS TURBINE GTCP3645 H 214 pages ENGINE AIRCRAFT GAS TURBINE MODEL T63 A 720 208 pages GAS TURBINE ENGINE AUXILIARY POWER UNIT APU MODEL T 62 T 40 1 344 pages ENGINE ASSEMBLY T700 GE 700 243 pages SANDY ENVIRONMENT AND OR COMBAT OPERATIONS FOR T53 L 13B T53 L 13BA AND T53 L 703 ENGINES 112 pages DUAL PURPOSE MOBILE CHECK AND ADJUSTMENT GENERATOR STAND FOR T62T 2A AND T62T

2A1 AUXILIARY POWER UNITS T62T 40 1 AND T62T 2B AUXILIARY POWER UNITS 193 pages Others included POWER PLANT UTILITY GAS TURBINE ENGINE DRI LIBBY WELDING CO MODEL LPU 71 FSN 6115 937 0929 NON WINT AND 6115 134 0825 WINTERIZED POWER PLANT UTILITY MUST GAS TURBINE ENGINE DRIVEN AIRESEARCH CO MODEL NO PPU85 5 LIBBY WELDING CO MODEL NO LPU 71 AME CORP MODEL APP 1 AND HOLLINGSWORTH CO MODEL NO JHTWX10 9 NSN 6115 00 937 0929 NON WINTERIZED AND 6115 00 134 0825 WINTERIZED POWER PLANT UTILITY MUST GAS TURBINE ENGINE DRIVEN AIRESEA MODEL PPU85 5 LIBBY WELDING CO MODEL LPU 71 AMERTECH CO MODEL APP 1 AND HOLLINGSWORTH CO MODEL JHTWX10 96 NSN 6115 00 937 0929 NON WINTERIZED AND 6115 00 134 0825 WINTERIZED GENERATOR SET GAS TURBINE ENGINE DRIVEN TACTICAL SKID MTD 1 400 HZ ALTERNATING CURRENT GENERATOR SET GAS TURBINE ENGINE 45 KW AC 120 208 AND 240 4 3 PHASE 4 WIRE SKID MTD WINTERIZED AIRESEARCH MODEL GTGE 70 FSN 6115 075 1639 POWER PLAN UTILITY MUST GAS TURBINE ENGINE DRIVEN AIRESEARCH CO MOD PPU85 5 LIBBY WELDING CO MODEL LPU 71 AMERTECH CORP MODEL APP 1 AND HOLLINGSWORTH CO MODEL JHTWX 10 96 NSN 6115 00 937 0929 NONWINTERIZED AND 6115 00 134 0825 WINTERIZED POWER PLANT UTILITY GAS TURBINE ENGINE DRIVEN AMERTECH CORP MODEL APP 1 POWER PLANT UTILITY GAS TURBINE ENGINE DRIVEN LIBBY WELDING CO MODEL LPU 71 POWER UNIT UTILITY PACK GAS TURBINE ENGINE DRIVEN AIRESEARCH MODEL PPU85 5 TYPE A AVIATION UNIT AND INTERMEDIATE MAINTENANCE FOR GAS TURBINE ENGI AUXILIARY POWER UNIT APU MODEL T 62T 2B PART NO 161050 10 NSN 2835 01 092 2037 AVIATION UNIT AND INTERMEDIATE MAINTENANCE REPAIR PARTS AND SPE TOOLS LIST INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIA FOR GAS TURBINE ENGINE AUXILIARY POWER UNIT APU MODEL T 62 PART NO 160150 100 NSN 2835 01 092 2037

The Turbine Pilot's Flight Manual Gregory N. Brown, Mark J. Holt, 2020-01-10 Hiring airlines recommended reading this book prior to your airline interview Whether you re preparing for turbine ground school priming for a corporate or airline interview or even if you re upgrading into your first personal jet or turboprop The Turbine Pilot s Flight Manual is designed for you With precision and a sense of humor authors Greg Brown and Mark Holt cover all the basics for turbine pilot operations clearly explaining the differences between turbine aircraft and their piston engine counterparts This manual clarifies the complex topics of turbine aircraft engines and all major power and airframe systems subjects that are pertinent to flying bigger faster and more advanced aircraft Discussions on high speed aerodynamics wake turbulence coordinating multi pilot crews and navigating in high altitude weather are all here plus state of the art cockpit instrumentation such as flight management systems FMS global navigation GPS and headup guidance systems HGS or HUD You ll also learn the operating principles of hazard avoidance systems including weather radar ground proximity warning systems GPWS and predictive wind shear systems PWS This Fourth Edition includes guidance regarding the FAA s ATP CTP training program The textbook details the concepts and operational principles of the latest generation cockpit

instrumentation navigation RNAV RNP and communication procedures and equipment datalink and ADS B Included are a glossary index plus a turbine pilot rules of thumb and turbine aircraft Spotter s Guide Additional information is available online where readers can access narrated color animations that make these systems easier than ever to understand

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2400 4160 AND 2200 3800 VOLTS DOD MOD MEP208A CLASS PRIME UTILITY HZ 50 60 NSN 6115 00 450 5881 LI 6115
12 9 060183 TM 5 6115 612 24P 6 GENERATOR SET AVIATION GAS TURBINE ENGINE DRIVEN INTEGRA TRAILER
MOUNTED 10KW 28 VOLTS MODEL MEP 362A PRECISE DC NSN 6115 01 161 3992 TM 6115 24P 1 AG 320B0 IPE 000 TO
35C2 3 471 4 060188 TM 5 6115 612 34 4 GENERATOR SET AVIATION GAS TURBINE ENG DRIVEN INTEGRAL TRAILER
MOUNTED 10KW 28 VOLTS DOD MODEL MEP 36 PRECISE DC NSN 6115 01 161 3992 AG 320BO MME 000 TM 6115 TO
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34 5 POWER UNIT AVIATION MULTI OUTPUT GTED ELECTRICAL HYDRAULIC PNEUMATIC AGPU WHEEL MOUNTED
SELF PROPELLED TOWA AC 400HZ 3PH 0 8 PF 115 200V 30 KW DC 28VDC 700 AMPS PNEUMATIC 60 LBS MIN AT 40
PSIG HYDRAULIC 15 GPM AT 3300 PS DOD MODEL MEP 360A CLASS PRECISE 400 HERTZ NSN 1730 01 144 AG 320A0
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6115 615 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID MOUNTED 3 K MODEL 016B CLASS UTILITY
MODE 50 60 HZ NSN 6115 01 150 4140 DOD MODEL MEP 021B CLASS UTILITY MODE 400 HZ 6115 01 151 812 DOD
MODEL MEP 026B CLASS UTILITY MODE 28 VDC 6115 01 150 036 LI 05926B 06509B 12 5 P 8 646 LO 064310 TM 5 6115
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United States. Department of the Army,1977 **Operator and Organizational Maintenance Manual** ,1989 *Manual*
for Gas Turbine Engine Assemblers L.K. Nikolenko,V.I. Sokolov,1967 **Monthly Catalog of United States Government**
Publications United States. Superintendent of Documents,1991 Monthly Catalog of United States Government
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Turbine Engine Manual Introduction

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