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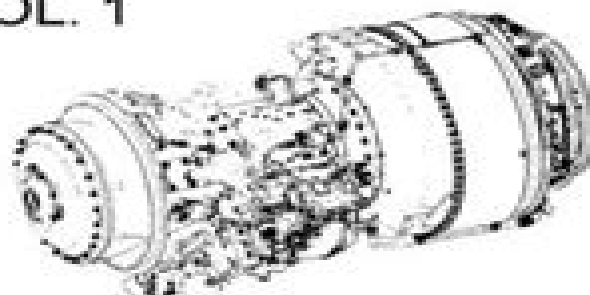
TM 55-2840-229-23-1
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TECHNICAL MANUAL

AVIATION UNIT AND AVIATION INTERMEDIATE MAINTENANCE MANUAL

ENGINE ASSEMBLY

VOL. 1



MODEL T53-L-11C
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This manual, together with TM 55-2840-229-23-2, 9 March 1981, supersedes TM 55-2840-229-24, 23 April 1971.

HEADQUARTERS, DEPARTMENTS OF THE ARMY AND AIR FORCE

9 MARCH 1981

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COMBUSTION SECTION
TURBINE SECTION
ACCESSORY GEARBOX
FUEL SYSTEM
ELECTRICAL SYSTEM
OIL SYSTEM
DRIVE SYSTEM
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Lycoming T53 Maintenance Manual

**United States. Department of the
Army**



Lycoming T53 Maintenance Manual:

Aviation Unit and Intermediate Unit Maintenance Manual ,1990 Aviation Unit and Aviation Intermediate Maintenance Manual ,1992 **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 Aviation Unit and Intermediate Maintenance Repair Parts and Special Tools List (including Depot Maintenance Repair Parts and Special Tools) for Helicopter, Attack, NSN 1520-01-168-4259, AH-1P (PROD), 1520-01-192-2478, AH-1E (ECAS), 1520-01-168-4260, AH-1F (MC), 1989 **Organizational, Direct Support, and General Support Maintenance Manual**, 1992 **Index of Technical Publications** United States. Department of the Army, 1977 **Manuals Combined: UH-1 HUEY Army Helicopter Maintenance, Parts & Repair Manuals**, Contains the following current U S Army Technical Manuals related to repair and maintenance of the UH 1 Huey series helicopter 23P 1 Level AVIATION UNIT AND INTERMEDIATE MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS FOR HELICOPTER UTILITY TACTICAL TRANSPORT UH 1B UH 1C UH 1H UH 1M EH 1H BELL UH 1V 31 October 2001 921 pages 23P 2 Level AVIATION UNIT AND INTERMEDIATE MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS FOR HELICOPTER UTILITY TACTICAL TRANSPORT UH 1B UH 1C UH 1H UH 1M EH 1H BELL UH 1V 23 November 2001 970 pages 23P 3 Level AVIATION UNIT AND INTERMEDIATE MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS FOR HELICOPTER UTILITY TACTICAL TRANSPORT UH 1B UH 1C UH 1H UH 1M EH 1H BELL UH 1V 23 November 2001 715 pages 23 1 Level AVIATION UNIT AND INTERMEDIATE MAINTENANCE INSTRUCTIONS ARMY MODEL UH 1H V EH 1H X HELICOPTERS 15 October 2001 1 176 pages 23 2 Level AVIATION UNIT AND INTERMEDIATE MAINTENANCE INSTRUCTIONS ARMY MODEL UH 1H V EH 1H X HELICOPTERS 1 November 2001 836 pages 23 3 Level AVIATION UNIT AND INTERMEDIATE MAINTENANCE INSTRUCTIONS ARMY MODEL UH 1H V EH 1H X 14 June 1996 754 pages UH 1H V and EH 1H X Aircraft Preventive Maintenance Daily Inspection Checklist 27 April 2001 52 pages UH 1H V and EH 1H X AIRCRAFT PHASED MAINTENANCE CHECKLIST 2 October 2000 112 pages **Aviation Unit and Intermediate Maintenance Repair Parts and Special Tools List (including Depot Maintenance Repair Parts and Special Tools) for Helicopter, Utility -**

Tactical Transport, UH-1B, UH-1C, UH-1H, UH-1M, EH-1H (Bell), UH-1V, NSN 1520-00-713-9912 (UH-1B), 1520-00-997-8862 (UH-1C), 1520-00-087-7637 (UH-1H), 1520-00-809-2631 (UH-1M), 1520-00-368-8442 (EH-1H), 1520-01-043-4949 (UH-1V). ,1989 **70+ EH-1 UH-1 Huey Helicopter Technical Manuals, Technical Bulletins, Modification Work Orders & Depot Maintenance Work Requirements Manuals** U.S. Army , Over 15 000 total pages Just a SAMPLE of the included manuals dated mid 1970s to the early 2000s 55 SERIES TECHNICAL MANUALS TM 55 1520 210 10 TM 55 1520 210 CL TM 55 1520 210 PM TM 55 1520 210 PMD TM 55 1520 210 23 1 TM 55 1520 210 23 2 TM 55 1520 210 23 3 TM 55 1520 210 23P 1 TM 55 1520 210 23P 2 TM 55 1520 210 23P 3 TM 55 1520 242 MTF UH 1 EH ENGINE RELATED TM 55 2840 229 23 1 TM 1 2840 260 23P TM 1 2840 260 23P 11 SERIES and MISC TM 11 1520 210 20P TM 11 1520 210 20P 1 TM 11 1520 210 34P TM 11 1520 210 34P 1 TM 11 1520 210 23 TM 1 1500 204 23 1 General Maintenance Practices TM 1 1500 204 23 2 Pneudraulics TM 1 1500 204 23 3 Fuel Oil Systems TM 1 1500 204 23 4 Electrical Instruments TM 1 1500 204 23 5 Prop Rotor and Powertrain TM 1 1500 204 23 6 Hardware and Consumables TM 1 1500 204 23 7 NDT TM 1 1500 204 23 8 Machine Welding Shops TM 1 1500 204 23 9 Tools and Ground Support TM 1 1500 204 23 10 Sheetmetal TM 38 301 3 Acceptable Oil Analysis Limits TM 55 1615 226 40 Scissors Sleeve UH 1 Maintenance Test Flight Manual DA PM 738_751 MODIFICATION WORK ORDERS MWO 30 8 5V Lighting MWO 30 45 GS MB MWO 30 48 Radar Alt AIRCRAFT RELATED TECHNICAL BULLETINS TB 20 17 TB 20 25 TB 20 26 TB 20 32 TB 20 33 TB 20 34 TB 20 35 TB 20 36 TB 20 38 TB 20 46 TB 20 47 TB 23 1 TB 30 01 TB TR ENGINE RELATED TECHNICAL BULLETINS TB 20 9 TB 20 10 TB 20 12 TB 20 15 TB 20 16 TB 20 18 TB 20 24 TB 20 26 TB 20 27 TB 20 28 TB 229 20 2 Numerous DEPOT MAINTENANCE WORK REQUIREMENT DMWR Manuals *Airworthiness Directives: Small Aircraft, Rotorcraft, Gliders, Balloons, and Airships, Bk. 4, 2000 Though 2003: Federal Aviation Regulations, Pt. 39 , The Technical Avalanche Protection Handbook Florian Rudolf-Miklau, Siegfried Sauermoser, Arthur Mears, 2015-04-20 Lawinen treten in vielen Gebirgsregionen der Erde als lebensbedrohende Naturgefahr in Erscheinung und werden in den Alpen treffend als Wei er Tod bezeichnet F r die Sicherung des Lebensraums und der Verkehrswege steht eine breite Palette technischer Schutzma nahmen Lawinenverbauung k nstliche Ausl sung Monitoring und Warnsysteme zur Verf gung die Teil einer eigenst ndigen Ingenieurdisziplin sind Das Werk bietet dem Leser einen umfassenden berblick ber die Grundlagen des technischen Lawinenschutzes Analyse Bewertung und Darstellung von Lawinengefahren und risiken und stellt im Detail die Methoden der Planung Konstruktion Bemessung und Erhaltung von Schutzbauwerken und tempor ren technischen Ma nahmen dar Die Bedeutung des technischen Lawinenschutzes weltweit wird im berblick dargestellt Die Beitr ge zu diesem Handbuch wurden von f hrenden europ ischen Experten des technischen Lawinenschutzes erstellt Die dargestellten Schutzsysteme und Methoden entsprechen dem aktuellen Stand der Technik und basieren auf den normativen Standards in sterreich und in der Schweiz Das Werk richtet sich an Ingenieure und Planer die mit der Konzeption und Ausf hrung von technischen*

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Aircraft Powerplants Ralph D. Bent, James L. McKinley, 1978 *Aerospace Engineering* ,1991 **Jane's Defence Weekly** ,1990-07 **Technical Abstract Bulletin** ,1968 Scientific and Technical Aerospace Reports ,1983 **Index Aeronauticus** ,1960 **Gas Turbine** ,1961 Foreign Object Debris and Damage in Aviation Ahmed F. El-Sayed, 2022-04-27 Foreign Object Debris and Damage in Aviation discusses both biological and non biological Foreign Object Debris FOD and associated Foreign Object Damage FOD in aviation The book provides a comprehensive treatment of the wide spectrum of FOD with numerous cost management and wildlife considerations Management control for the debris begins at the aircraft design phase and the book includes numerical analyses for estimating damage caused by strikes The book explores aircraft operation in adverse weather conditions and inanimate FOD management programs for airports airlines airframe and engine manufacturers It focuses on the sources of FOD the categories of damage caused by FOD and both the direct and indirect costs caused by FOD In addition the book provides management plans for wildlife including positive and passive methods The book will interest aviation industry personnel aircraft transport and ground operators aircraft pilots and aerospace or aviation engineers Readers will learn to manage FOD to guarantee air traffic safety with minimum costs to airlines and airports

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