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TECHNICAL MANUAL

AVIATION UNIT AND AVIATION INTERMEDIATE MAINTENANCE MANUAL

ENGINE ASSEMBLY

VOL. 1



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HEADQUARTERS, DEPARTMENTS OF THE ARMY AND AIR FORCE

9 MARCH 1981

Lycoming T53 Maintenance Manual

R Sanford



Lycoming T53 Maintenance Manual:

Aviation Unit and Aviation Intermediate Maintenance Manual ,1992 Aviation Unit and Intermediate Unit Maintenance Manual ,1990 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

Airworthiness Directives: Small Aircraft, Rotorcraft, Gliders, Balloons, and Airships, Bk. 4, 2000 Though 2003: Federal

Aviation Regulations, Pt. 39 , 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 *Interavia* ,1990 **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

Lawinenschutzmaßnahmen betraut sind aber auch an interessierte Leser anderer Fachdisziplinen die mit Fragen des Lawinenschutzes konfrontiert sind Die Autoren sind führende Fachleute für technischen Lawinenschutz in Deutschland Frankreich Italien Island Japan Kanada Norwegen Österreich der Schweiz Spanien und in den USA *Technical Abstract Bulletin* ,1968 **Aerospace Engineering** ,1991-07 *Jane's Defence Weekly* ,1990-07 *Aircraft Powerplants* Ralph D. Bent, James L. McKinley, 1978 *All or Nothing* Wayne Kuschel, 2012-09-26 After my retirement decisions had to be made to exist in this society Immediately after receiving my first official United States Air Force retirement check of 315 00 it wasn't enough money to buy a toothpick to go with a glass of water let alone enough change for a tip to leave for the waitress The family and I talked freely of what had to be done to pay the basic bills One consolation was that my wife was a qualified California Real Estate Broker but that often didn't provide enough money to buy a loaf of bread and butter to put on the table unless she closed some large real estate sales package We had a give and take ordeal and had to weigh each option or requirement for funds After researching all the choices of acceptable approaches I elected to enter the electronics field using my VA education bill My first step was to visit the Veterans Administration within the Los Angeles area Many attempts were made because of changing government requirements on submission of required correspondence Numerous forms had to be filled out correctly because the amount of support would be based on the input information So I lucked out for the maximum amount to be paid for attending *Scientific and Technical Aerospace Reports* ,1983 *Aeronautical Engineering* ,1984 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Index Aeronauticus** ,1960

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