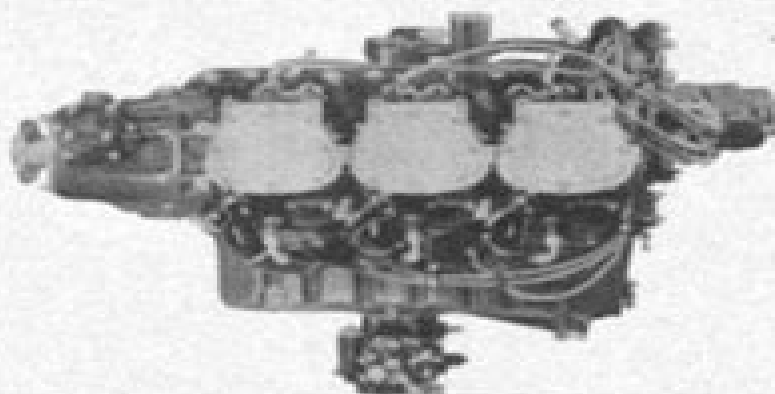


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LYCOMING
DIVISION - *AVCO* MANUFACTURING CORPORATION
WILLIAMSPORT, PENNSYLVANIA

Lycoming Engine Manual

Avco Corporation. Lycoming Division



Lycoming Engine Manual:

Operator's Manual Avco Corporation. Lycoming Division, 1956 Sky Ranch Engineering Manual John Schwaner, 1991

Motor Maintenance Data Book and Flat-rate Manual B. M. Ikert, 1929 Operator's Manual Avco Corporation. Lycoming Division, 1962 **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

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Examination I **Operator's Manual** ,1953 *Overhaul Manual* Avco Corporation. Lycoming Division,1961 *Overhaul Manual Lycoming Direct Drive Engine* Avco Corporation. Lycoming Division,1965 **Handbook of Aeronautical Inspection and Pre-Purchase** Denny Pollard,2005-12-20

If you are a prospective owner pilot broker or aviation mechanic or anyone who needs to know where to find information about the aviation airworthiness maintenance inspections and rules you ll find all he information you need in this one volume The following expert tips in this book will walk you thought step by step without worrying if you are buying a hangar queen Every aspect about inspections mechanic privileges mechanic and owner responsibilities and what you should look for and inspect when choosing an aircraft Know where to find the tools to aid in research of the aircraft history specifications details on modifications and changes made through the years Type Certificate Date Sheets FAA Airworthiness Directives Supplementary Type Certificates Maintenance Alerts for each make and model aircraft and aircraft records This book documents the history experiences and hardships of purchasing aircraft It describes the difficult and hazardous situations demanding ingenuity resourcefulness and a lot of difficult hard work Denny s years of experience in the aviation field demonstrates a lesser known side of aviation that is from the mechanic s perspective This book is the first of its kind and once started compels the reader to continue to the last page Before you buy your next aircraft have an independent inspection completed by an Airframe and Powerplant mechanic Whether you are an American or overseas buyer you will be able to buy with confidence with a pre purchase inspection With your pre purchase inspection you should receive an extensive condition report verifying the condition and originality on the aircraft you wish to purchase The pre purchase should be able to tell you if the aircraft is currently airworthy and if the aircraft has been in an accident or been modified Along with the detailed report you should receive several photographs including pictures of the fuselage engine compartment and interior and close ups of areas of concern After the inspection the mechanic or agent for service should discuss this information with you Are you aware the pre purchase agreement you sign may be the single most

important document among the dozen or so documents sometimes required And which specific items should you include in your purchase agreement Has your aircraft Or the One That You Are Thinking About Purchasing been subjected to less than scrupulous inspection and maintenance practices over the years Sometimes even a very competent pre purchase inspection does not include a complete inspection of the aircraft records because it is often very time consuming to read them thoroughly Positively the most enlightening pre buy inspection is a good evaluation of the aircraft maintenance records A complete evaluation will identify the current status of the aircraft as required by 14 CFR 91 417 uncover time frames of no maintenance or lack of maintenance identify inaccurate engine cycle tracking as well as aircraft time tracking and reveal aircraft damage history Prospective purchaser is responsible for discovering discrepancies that can only be revealed by in flight evaluation such as flight characteristics proper functioning of navigational instrumentation avionics and autopilot The purpose of the Pre purchase Inspection is to protect the interest of the buyer it is not intended to be an Annual Airworthiness Inspection *Federal Register* ,2013-06 Operator's Manual Avco Corporation. Lycoming Division,1956

Manual--Lycoming Engines Specifications, Models O-435, O-350, O-290, O-235, O-145-A2, O-145-B2, O-145-C2, GO-145-C3 Aviation Manufacturing Corporation. Lycoming Division,1942 **Airworthiness Inspector's Handbook** United States. Federal Aviation Administration,1985 **Lycoming Aircraft Engine Installation Manual** ,1963 *Operator's Manual* , **Operator's Manual** Avco Corporation. Lycoming-Spencer Division, Piper Aircraft Corporation V. Wag-Aero, Inc ,1983 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1947 Includes Part 1A Books Part 1B Pamphlets Serials and Contributions to Periodicals and Part 2 Periodicals Part 2 Periodicals incorporates Part 2 Volume 41 1946 New Series General Aviation Inspection Aids United States. Flight Standards Service,1977 Includes annual summary and 11 supplements *Owner Assisted Aircraft Maintenance* Daniel MacDonald,2011-07-21 From the back cover Have you ever wanted to participate in your aircraft s maintenance but were afraid to try Are the rising costs of flying keeping you on the ground This illustrated manual is written for mechanically inclined Part 91 pilot owner operators that are ready to learn more about their airplanes It describes common maintenance activities that are approved for pilots to perform by the FAA along with a number of other projects that you might wish to complete under the supervision of a certified mechanic The book focuses on common legacy single engine aluminum aircraft built from the 1940s through today Whether changing your oil installing new tires or checking engine compression this 160 pages of text and photos provides procedures and tips gathered over the past 27 years

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