

# Illustrated Parts Catalog

## Allison Gas Turbines

**TURBOSHAFT**

**MODEL 250-C28B, -C28C**

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**Detroit Diesel Allison**

Division of General Motors Corporation  
Indianapolis, Indiana 46206

# Operating Manual Allison Gas Turbines

**Victor M. Corman**



## **Operating Manual Allison Gas Turbines:**

U.S. Navy Gas Turbine Systems Technician Manual , **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1976 **Gas Turbine System Technician (electrical) 3 & 2** Robert W. Gonser,1988 **Gas Turbine System Technician (mechanical) 3 & 2** John J. Ahern,1989 **The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services** ,1984 *The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Coast Guard, Marine Corps, Navy, Dept. of Defense* American Council on Education,1980 *General Aviation Airworthiness Alerts* ,1983 *Federal Register* ,2005-08 Fiscal Year 1991 Department of Energy Authorization (transportation Programs) United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Transportation, Aviation, and Materials,1990 Combined Heating, Cooling & Power Handbook Neil Petchers,2003 Many of the economic road blocks which have previously served to discourage the implementation of alternative power generation technologies can now be readily overcome through effective energy resource optimization It is now a fact that solid financial returns can be achieved from combined heating cooling and power generation projects by integrating energy and cost efficiency goals and seeking a match between power production and heating cooling requirements This book is intended to serve as a road map to those seeking to realize optimum economic returns on such projects The first section provides an introduction to basic heat and power thermodynamics with an overview of heat and power generation technologies and equipment The second section explores the infrastructure in which the project must be implemented including environmental considerations as well as utility rate structures The third section provides detailed coverage of a broad range of technology types and discusses how opportunities for their application can be identified and successfully exploited The final section takes you through each step of project development implementation and operation Numerous examples are provided of actual field applications with supporting documentation of system layouts and performance The text is supplemented with more than one thousand graphics including photos cutaway drawings layout schematics performance curves and data tables

**Energy Research Abstracts** ,1994 *FAA Airworthiness Directive* ,1984 *Annual Report to Congress on the Automotive Technology Development Program. Ninth* ,1987 **Annual Report to Congress on the Automotive Technology Development Program** ,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

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