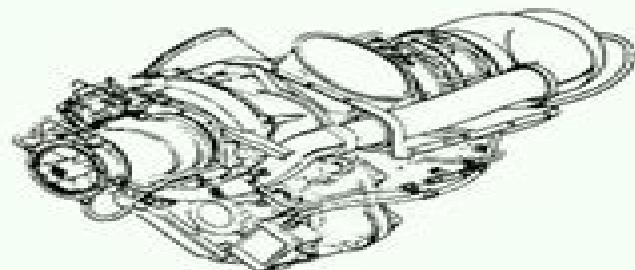


TECHNICAL MANUAL

AVIATION UNIT
AND
AVIATION INTERMEDIATE
MAINTENANCE MANUAL

**ENGINE
ASSEMBLY**



MODEL T63-A-5A
NSN 2840-00-923-6023
MODEL T63-A-700
NSN 2840-00-179-5536

HEADQUARTERS
DEPARTMENT OF THE ARMY
27 FEBRUARY 1981

ENGINE - GENERAL	
COMPRESSOR SECTION	
COMBUSTION SECTION	
POWER TURBINE	
ACCESSORY GEARBOX	
FUEL SYSTEM	
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**United States. Department of the
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Aviation Unit and Intermediate Maintenance Manual ,1992

Bell OH-58 A C D Kiowa Helicopter Maintenance,

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The Iraqi invasion of Kuwait on August the 2nd 1990 and the resultant decision by the President to deploy land air and naval forces to protect Saudi Arabia and the United Arab Emirates led since August the 8th 1990 to a steady measured commitment of soldiers sailors airmen and supporting equipment to Southwest Asia That commitment which began approaching its apparent apex by early November suddenly broadened on the 8th of that month when the President expanded the original defensive objective to entail the liberation of Kuwait His policy addendum called for doubling the 200 000 men in Southwest Asia to about 400 000 and he gave Iraq a January the 15th 1991 deadline to quit Kuwait or face massive military force Overall American policy in this matter could therefore be considered roughly three phased one the original defensive deployment of 200 000 strong August 8 November 8 1990 two the reinforcement to attack strength of about 400 000 November 8 1990 to January 15 1991 and three January 16 1991 to February 27 1991 war

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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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