

TECHNICAL MANUAL

AVIATION UNIT AND INTERMEDIATE MAINTENANCE

**GAS TURBINE ENGINE
(AUXILIARY POWER UNIT – APU)
MODEL T-62T-2B
PART NUMBER 160150-100
NSN 2835-01-092-2037**

HEADQUARTERS, DEPARTMENT OF THE ARMY

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**GAS TURBINE ENGINE
(AUXILIARY POWER UNIT - APU)****MODEL T-62T-2B
PART NUMBER 160150-100
NSN 2835-01-092-2037****REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

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How to Use This Manual

1. Description of Manual. This manual has two chapters and five appendices. Each chapter is divided into sections. Each section in Chapter 1 is divided into paragraphs. The paragraphs have specific information you will need to know. Chapter 2 is divided into tasks. The tasks tell you what you need and how to do any job. The appendices have general information you will need to know. They list references, maintenance allocation chart, expendable supplies and materials, wiring diagrams, and manufactured items,

a. Paragraph/Tasks. Paragraphs make up sections in Chapter 1. They contain specific information about the APU. Tasks make up Chapter 2. It is the tasks that have the information you need to do any job. All paragraphs and tasks are numbered. This helps you find what you need when you need it. USE THE TABLE OF CONTENTS or THE INDEX TO FIND THE PARAGRAPH OR TASK YOU NEED. Tasks and tables are identified by the number of the chapter in which it appears, followed by a dash and a number indicating the sequence in which it appears in the chapter.

Examples: Table 1-2 is the second table in Chapter 1.

Task 2-11 is the eleventh task in Chapter 2.

b. Initial Setup. Initial setup is the first part of every task in the manual. It lists what tools, materials, and parts you will need before you can do the task. The following headings are used when they apply.

(1) Task Title. The task title after the paragraph number describes the job to be done in the task.

(2) Tools. Tools, tool kits, or shop sets needed to do the task are listed here. If tools from your repairman's tool kit are needed, the kit is listed. Tools you need that are not in the kit or set, are listed by name, type, and size. Special tools and test and support equipment are listed by a T-number. Find these items in Table 1-2.

(3) Materials. Expendable items and support materials are listed under this heading. These are things like solvent, rags, grease, safety wire, etc. They are listed by an E-number;

Example: Grease (E14)

Find these items in Appendix C.

(4) Parts. All mandatory replacement parts are listed. These are things like gaskets, packings, cotter pins, lockwashers, etc. They are listed by the Repair Parts and Special Tools List (RPSTL) name.

(5) Personnel Required. The people needed to do the task are listed under this heading. They are identified by their MOS. When more than one of any MOS is needed, the number needed is shown in parentheses. The text will tell you when a helper is needed.

(6) References. Related tasks and TM's you will need to do the task are listed under this heading. The task steps tell you when these tasks and TM's are needed.

(7) Equipment Condition. All the things to be done before you start the task are listed under this heading. To help, the number of the task tells you how to do them is given when applicable.

NOTE

All tasks covered in this manual are off helicopter tasks. If a task is other than an off helicopter task, it will be brought to your attention under "Equipment Condition". Example: "Off APU Task".

(8) General Safety Instructions. Safety precautions that must be observed when you are doing the job are described under this heading. Warnings also include immediate first aid instructions.

c. Locator Illustrations. When needed (for removal, installation and other procedures) a locator illustration is included in initial setup. They show you the area of the APU to be worked on. Parts involved in the task are called out.

d. Procedures. Step-by-step procedures tell you how to do the task. They are arranged in logical sequence to help you get the task done efficiently.

2. How To Prepare For a Task. Read the initial setup carefully before starting. It tells you what you will need and what you have to know to start the task. **DO NOT START A TASK UNTIL:**

You know what is needed

You have the things you need

You understand what to do

a. If a tool has a T-code after it, go to the Special Tools and Test and Support Equipment List in Table 1-2. Read down the far left-hand column to your T-code. This is the tool you need for your task.

b. If an expendable material has an E-number after it, go to the Expendable Supplies and Materials List in Appendix C. Read down the Item Number column to your E-number. This is the expendable you need for your task.

c. If parts are listed, they can be drawn from tech supply. Before you start the task, check and make sure you can get the needed parts; National Stock Numbers (NSN) and part numbers are listed in TM 55-2835-205-23P.

d. Check for personnel required,

e. If preliminary procedures are listed under "Equipment Conditions", **BE SURE THE LISTED TASKS ARE DONE;** then do this task.

3. How To Do The Task. Before starting, read the entire task. Familiarize yourself with the entire procedure before you begin the task. As you read, remember the following:

a. **PAY ATTENTION TO WARNINGS, CAUTIONS AND NOTES:**

b. When values are underlined or followed by the word **INSPECT**, an inspector must OK the completed step.

c. Major steps and key words are printed in bold type for experienced repairers.