

**TECHNICAL MANUAL**

**AVIATION UNIT AND INTERMEDIATE MAINTENANCE  
REPAIR PARTS AND SPECIAL TOOLS LIST  
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)**

**FOR  
ENGINE ASSEMBLY, T700-GE-701C,  
PN 6071T24G01, NSN 2840-01-284-4011**

**DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.**

**\* This manual supersedes TM 55-2840-258-23P/T.O. 2J-T700-24, dated 31 December 1989, including all changes.**

---

**HEADQUARTERS, DEPARTMENT OF THE ARMY AND AIR FORCE  
31 MARCH 1997**

TECHNICAL MANUAL  
 NO. 1-2840-258-23P  
 T.O. 2-T700-24

HEADQUARTERS  
 DEPARTMENTS OF THE ARMY AND THE AIR FORCE  
 WASHINGTON, D.C., 31 MARCH 1997

**AVIATION UNIT AND INTERMEDIATE MAINTENANCE  
 REPAIR PARTS AND SPECIAL TOOLS LIST  
 (INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)  
 FOR  
 ENGINE ASSEMBLY, T700-GE-701C  
 PN 6071T24G01, NSN 2840-01-284-4011**

**Current as of 8 March 2002**

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this manual. If you find any mistakes, or if you know of a way to improve these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) located in the back of this manual, directly to: Commander, U.S. Army Aviation and Missile Command, ATTN: AMSAM-MMC-MA-NP Redstone Arsenal, AL 35898-5000. A reply will be furnished to you. You may also provide DA Form 2028 information to AMCOM via e-mail, fax, or the World Wide Web. Our fax number is: DSN 788-6546 or Commercial 256-842-6546. Our e-mail address is: 2028 @redstone.army.mil. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028. For the World Wide Web use: <https://amcom2028.redstone.army.mil>.

**DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.**

**TABLE OF CONTENTS**

|             |                                                | Page | Illus.<br>Figure |
|-------------|------------------------------------------------|------|------------------|
| Section I.  | INTRODUCTION .....                             | 1    |                  |
| Section II. | REPAIR PARTS LIST .....                        | 1-1  |                  |
| Group 0400  | Engine Assembly                                |      |                  |
| 0401        | Engine System Standards .....                  | 1-1  | 1                |
| 0402        | Compressor Section                             |      |                  |
|             | Cold Section Module .....                      | 2-1  | 2                |
|             | A-Sump Output Shaft Assembly .....             | 3-1  | 3                |
|             | Power Takeoff Drive Assembly .....             | 4-1  | 4                |
|             | Front Frame .....                              | 5-1  | 5                |
|             | Main Frame .....                               | 6-1  | 6                |
|             | Inlet Guide Vane Actuating Ring .....          | 7-1  | 7                |
|             | Compressor Stator Assembly .....               | 8-1  | 8                |
|             | Stage 1 and Stage 2 Vane Actuating Rings ..... | 9-1  | 9                |
|             | Compressor Rotor Assembly .....                | 10-1 | 10               |
|             | Diffuser and Midframe Casing Assembly .....    | 11-1 | 11               |
|             | Actuating System Linkage Assembly .....        | 12-1 | 12               |

\*This manual supersedes TM 55-2840-258-23P/T.O. 2J-T700-24, dated 31 December 1989, including all changes.

## TABLE OF CONTENTS (Cont)

|              |      | Page                                                       | Illus.<br>Figure |
|--------------|------|------------------------------------------------------------|------------------|
| Group        | 0403 | Combustion Section                                         |                  |
|              |      | Hot Section Module .....                                   | 13-1 13          |
|              |      | Gas Generator Matched Assembly .....                       | 14-1 14          |
|              |      | Stages 1 and 2 Low-Stress Gas Generator Turbine Rotor..... | 15-1 15          |
|              |      | Gas Generator Stator .....                                 | 16-1 16          |
|              |      | Stage 1 Nozzle Assembly .....                              | 17-1 17          |
|              | 0404 | Power Turbine                                              |                  |
|              |      | Power Turbine Module.....                                  | 18-1 18          |
|              |      | Power Turbine Rotor Assembly .....                         | 19-1 19          |
|              | 0405 | Accessory Gearbox                                          |                  |
|              |      | Accessory Section Module .....                             | 20-1 20          |
|              |      | Accessory Drive Gearbox Assembly .....                     | 21-1 21          |
|              |      | Front and Rear Gearbox Housings .....                      | 22-1 22          |
|              | 0406 | Fuel System .....                                          | 23-1 23          |
|              | 0407 | Electrical System .....                                    | 24-1 24          |
|              | 0408 | Oil System .....                                           | 25-1 25          |
|              | 0410 | Air System .....                                           | 26-1 26          |
| Section III. |      | SPECIAL TOOL LIST .....                                    | 27-1 27          |
| Group 81     |      | Special Tools .....                                        | 27-1 27 thru 72  |
| Section IV.  |      | CROSS-REFERENCE INDEXES .....                              | I-1              |
|              |      | National Stock Number Index .....                          | I-1              |
|              |      | Part Number Index .....                                    | I-14             |

## SECTION I. INTRODUCTION

### 1. Scope.

This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of Aviation Unit Maintenance (AVUM), Aviation Intermediate Maintenance (AVIM), and depot maintenance of the Engine Assembly, T700-GE-701C. It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the Source, Maintenance, and Recoverability (SMR) codes.

### NOTE:

**For detailed information concerning AVUM/AVIM Maintenance concept, refer to Appendix B, TM 55-2840-248-23.**

### 2. General.

In addition to Section I, Introduction, this Repair Parts and Special Tools List (RPSTL) is divided into the following sections:

a. Section II, Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in a computer generated item number sequence. Repair parts kits are listed separately at the end of the applicable figure within Section II. Items listed are shown on the associated illustration(s)/figure(s).

b. Section III, Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE (UOC) column) for the performance of maintenance.

c. Section IV, Cross-reference Indexes. There are two cross-reference indexes in this RPSTL: The National Stock Number Index and the Part Number Index. The National Stock Number Index refers you to the figure and item number. The Part Number Index refers you to the figure and item number.

### 3. Explanation of Columns (Sections II and III).

a. ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration. Bulk items are not illustrated.

b. SMR Code (Column (2)). The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instructions, as shown in the following breakout:

