**TECHNICAL MANUAL**

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

**ENGINE ASSEMBLY, GAS TURBINE**
**MODEL GTCP36-55 (H)**
**PN 3800102-2**
**NSN 2835-01-172-6200 (EIC:RSA)**

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

**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**29 FEBRUARY 1996**

TECHNICAL MANUAL

NO. 1-2835-213-23P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 29 February 1996

TECHNICAL MANUAL

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

ENGINE ASSEMBLY, GAS TURBINE
Model GTCP36-55(H)
PN3800102-2
NSN 2835-01-I 72-6200 (EIC:RSA)

**Current as of 30 April 2080**

**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) or DA Form 2028-2 located in the back of this manual directly to: Commander, U.S. Army Aviation and Missile Command, ATTN: AMSAM-MMC-LS-LP, Redstone Arsenal, AL 35898-5230. A reply will be furnished directly to you. You may also send your comments electronically to our e-mail address: ls-lp@redstone.army.mil or by fax (256) 842-6546/DSN 7886546. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

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

## TABLE OF CONTENTS


| | | | Page | Illus/ Figure |
|---|---|---|---|---|
| Section | I. | INTRODUCTION | 1 | |
| | II. | REPAIR PARTS LIST | I-I | |
| Group | 04 | Engine System | I-I | |
| Group | 0401 | Engine General | I-I | 1 |
| | | 01 Plumbing and Electrical Installation | 3-I | 3 |
| | | 02 Accessories and Components | 4-I | 4 |
| | | 03 Engine Basic | 5-I | 5 |
| | | 04 Compressor Inlet Plenum Assembly | 6-I | 6 |
| | 0402 | Combustion Section | 7-I | 7 |
| | | 01 Combustion Chamber | 8-I | 8 |
| | 0403 | Power Turbine Section | 9-I | 9 |
| | 0404 | Compressor Section | 1 0-I | 10 |
| | | 01 Bearing Retainer Support Assembly | 11-1 | 11 |
| | | 02 Compressor inlet Housing Assembly | 12-I | 12 |
| | 0405 | Accessory Gearbox | 13-I | 13 |
| | | 01 Gearbox Housing Assembly | 14-I | 14 |
| | 0405 | Fuel System | 15-1 | 15 |
| | | 01 Fuel Control Assembly | 16-I | 16 |
| | | 0101 Fuel Control Body Assembly | 17-I | 17 |

## TABLE OF CONTENTS (Continued)


| | | Page | Illus/ Figure |
|---|---|---|---|
| 0407 | Electrical System | 18-1 | 18 |
| | 01 Wiring Harness Assembly | 19-I | 19 |
| 0408 | Oil System | 20-I | 20 |
| | 01 Oil Pump Assembly | 21-1 | 21 |
| | 02 Clutch Assembly | 22-I | 22 |
| | 0201 Inlet Housing | 23-I | 23 |
| | 0202 Seal Retainer Plate Asembly | 24-I | 24 |
| 81 | Special Tools | 25-I | 25 |
| 81 | Special Tools | 28-I | 26 |
| 81 | Special Tools | 27-I | 27 |
| 81 | Special Tools | 28-I | 28 |
| 81 | Special Tools | 29-I | 29 |
| 81 | Special Tools | 30-I | 30 |

## 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 unit maintenance of the Gas Turbine Engine Assembly. It authorizes the requisitioning, issue and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

### 2. GENERAL.

This repair parts and special tools list 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 autho- rized 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 by item name in FIG. BULK at the end of the section. Repair parts kits are listed separately in their own functional group within Section II. Repair parts for reparable special tools are also listed in Section II. Items listed are shown on the associated illustration.

b. Section lll. 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 the DESCRIPTION AND USABLE ON CODE column).

c. Section IV. Cross-Reference Indexes. There are three cross-reference indexes in this RPSTL: The National Stock Number Index, Part Number Index and the Figure and Item 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. The Figure and Item Number Index lists figure and item numbers in alphanumeric sequence and cross-references NSN, CAGE and part numbers.

### 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.