

**TECHNICAL MANUAL**

**AIRCRAFT MAINTENANCE**

**WORK UNIT CODE MANUAL**

**USAF SERIES  
MH-139A  
HELICOPTER**

BOEING  
MISSION ENHANCED 139  
FA8739-18-C-5030

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## LIST OF EFFECTIVE DATA MODULES

| Data Module Code            | Data Module Title   | Issue No. |
|-----------------------------|---|-----------|
| MH139-A-00-00-00-00W-00SA-A | LEP   | 002       |
| MH139-A-00-00-00-00A-018N-A | INTRODUCTION  | 002       |
| MH139-A-00-00-00-02A-013A-A | TYPE MAINTENANCE CODES  | 002       |
| MH139-A-00-00-00-03A-013A-A | ACTION TAKEN CODES  | 002       |
| MH139-A-00-00-00-04A-013A-A | WHEN DISCOVERED CODES   | 002       |
| MH139-A-00-00-00-05A-014B-A | HOW MALFUNCTION CODES<br>ALPHABETICAL LISTING<br>(AVIONICS/ELECTRICAL/<br>COMPUTER) | 002       |
| MH139-A-00-00-00-06A-014B-A | HOW MALFUNCTION CODES<br>ALPHABETICAL LISTING<br>(PHYSICAL/MECHANICAL)              | 002       |
| MH139-A-00-00-00-07A-014B-A | HOW MALFUNCTION CODES<br>ALPHABETICAL LISTING<br>(ENGINE RELATED)                   | 002       |
| MH139-A-00-00-00-05A-013A-A | HOW MALFUNCTION CODES<br>NUMERICAL LISTING<br>(AVIONICS/ELECTRICAL/<br>COMPUTER)    | 002       |
| MH139-A-00-00-00-06A-013A-A | HOW MALFUNCTION CODES<br>NUMERICAL LISTING<br>(PHYSICAL/MECHANICAL)                 | 002       |
| MH139-A-00-00-00-07A-013A-A | HOW MALFUNCTION CODES<br>NUMERIC LISTING (ENGINE<br>RELATED)                        | 002       |
| MH139-A-00-00-00-09A-013A-A | SUPPORT GENERAL WORK<br>UNIT CODES (EXCEPT 03000<br>AND 04000)                      | 002       |

**LIST OF EFFECTIVE DATA MODULES**

| <b>Data Module Code</b>     | <b>Data Module Title</b>                | <b>Issue No.</b> |
|-----------------------------|---|------------------|
| MH139-A-00-00-00-09B-013A-A | SUPPORT GENERAL WORK UNIT CODES (03000) | 002              |
| MH139-A-00-00-00-09C-013A-A | SUPPORT GENERAL WORK UNIT CODES (04000) | 002              |
| MH139-A-00-00-00-01A-013A-A | STANDARD AIRCRAFT SYSTEM CODES          | 002              |
| MH139-A-00-00-00-11A-010A-A | 11 - AIRFRAME                           | 002              |
| MH139-A-00-00-00-12A-010A-A | 12 - COCKPIT AND FUSELAGE COMPARTMENTS  | 002              |
| MH139-A-00-00-00-13A-010A-A | 13 - LANDING GEAR                       | 002              |
| MH139-A-00-00-00-14A-010A-A | 14 - FLIGHT CONTROL                     | 002              |
| MH139-A-00-00-00-15A-010A-A | 15 - AIRCRAFT ROTOR                     | 002              |
| MH139-A-00-00-00-22A-010A-A | 22 - TURBOSHAFT ENGINE                  | 002              |
| MH139-A-00-00-00-26A-010A-A | 26 - ROTOR DRIVE                        | 002              |
| MH139-A-00-00-00-39A-010A-A | 39 - ICE AND RAIN PROTECTION            | 002              |
| MH139-A-00-00-00-41A-010A-A | 41 - ENVIRONMENTAL                      | 002              |
| MH139-A-00-00-00-42A-010A-A | 42 - ELECTRICAL POWER                   | 002              |
| MH139-A-00-00-00-44A-010A-A | 44 - LIGHTING                           | 002              |
| MH139-A-00-00-00-45A-010A-A | 45 - HYDRAULIC AND PNEUMATIC POWER      | 002              |
| MH139-A-00-00-00-46A-010A-A | 46 - FUEL                               | 002              |
| MH139-A-00-00-00-48A-010A-A | 48 - INDICATING/RECORDING               | 002              |
| MH139-A-00-00-00-49A-010A-A | 49 - MISCELLANEOUS UTILITIES            | 002              |
| MH139-A-00-00-00-51A-010A-A | 51 - INSTRUMENTS                        | 002              |

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## LIST OF EFFECTIVE DATA MODULES

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| MH139-A-00-00-00-55A-010A-A | 55 - MALFUNCTION ANALYSIS AND RECORDING EQUIPMENT   | 002       |
| MH139-A-00-00-00-62A-010A-A | 62 - VHF COMMUNICATION                              | 002       |
| MH139-A-00-00-00-63A-010A-A | 63 - UHF COMMUNICATION                              | 002       |
| MH139-A-00-00-00-64A-010A-A | 64 - INTERCOMMUNICATION SYSTEM                      | 002       |
| MH139-A-00-00-00-65A-010A-A | 65 - IDENTIFY FRIEND OR FOE (IFF) SYSTEM            | 002       |
| MH139-A-00-00-00-69A-010A-A | 69 - MISCELLANEOUS COMMUNICATIONS                   | 002       |
| MH139-A-00-00-00-71A-010A-A | 71 - RADIO NAVIGATION                               | 002       |
| MH139-A-00-00-00-72A-010A-A | 72 - RADAR NAVIGATION                               | 002       |
| MH139-A-00-00-00-75A-010A-A | 75 - WEAPONS  | 002       |
| MH139-A-00-00-00-76A-010A-A | 76 - ELECTRONIC COUNTERMEASURES (ECM)               | 002       |
| MH139-A-00-00-00-77A-010A-A | 77 - RECONNAISSANCE/ SURVEILLANCE                   | 002       |
| MH139-A-00-00-00-82A-010A-A | 82 - COMPUTER AND DATA DISPLAY                      | 002       |
| MH139-A-00-00-00-91A-010A-A | 91 - EMERGENCY EQUIPMENT                            | 002       |
| MH139-A-00-00-00-97A-010A-A | 97 - AIRCRAFT EXPLOSIVE DEVICES AND COMPONENT ITEMS | 002       |

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97 AIRCRAFT EXPLOSIVE DEVICES AND  
COMPONENT ITEMS.....

**97-001**

# INTRODUCTION

## 1 GENERAL.

The complete details on use of codes printed in this manual are prescribed in AFI 21-101 and TO 00-20-2 series Technical Orders.

## 2 USE OF CODES.

It is necessary to use codes for recording maintenance actions in the designated automated Maintenance Information System (MIS). This data is used to provide management with information necessary to manage all aspects of the maintenance function such as trends, failure rates, capability rates, etc. Therefore it is very important that input data be as accurate as possible. Resultant reports are only meaningful and useful if all maintenance actions are coded and entered into the system correctly.

### 2.1 Work Unit Code (WUC).

This code consists of five alphabetic and numeric characters and is used to identify the system, subsystem, and component which was worked on. The symbol NOC is the abbreviation for Not Otherwise Coded. Code 99, NOC ( Not Otherwise Coded ), should only be used when an item does not have a specific work unit code assigned. An AFTO Form 22 will be submitted when a 99 NOC ( Not Otherwise Coded ) code is used due to lack of a work unit code for repairable item. Items identified by an asterisk (\*) between the work unit code and the code definition are time significant, serially controlled, or time change items. Time change items are further identified by the abbreviation (TCI) following the work unit code definition. Items identified by an asterisk require special consideration when completing maintenance documents. Serially controlled, wheels and tires, and reliability improvement warranty (RIW) items that are identified by an asterisk require the same type of recording as time change items. (Refer to TO 00-20-2.)

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### **2.2 MCS Code.**

This code consists of five alphabetic or numeric characters and is used to identify direct labor man-hours expended in other than direct labor; i.e., Alert Duty, Detail, Leave, Training, etc.

### **2.3 Type Maintenance Code.**

This code consists of one alphabetic character and identifies the type of maintenance being performed. i.e., scheduled or unscheduled maintenance.

### **2.4 Action Taken Code.**

This code consists of one alphabetic or numeric character and identifies what work was done, i.e., the action taken.

### **2.5 When Discovered Code.**

This code consists of one alphabetic or numeric character and is used to describe at what time a discrepancy was discovered.

### **2.6 How Malfunction Code (HMC).**

This code consists of three numeric characters and is used to describe the equipment malfunction. Technicians must use a How Malfunction Code (HMC) from the engine related codes when documenting the removal of engines or engine components that are AFI 21-104 reportable. For all other maintenance actions on any type of equipment, there are no restrictions on use of codes by category. If the code is appropriate for an observed malfunction, it may be used regardless of what category it is listed in. Engine shops may use avionics codes, avionics shops may use engine codes, tire shops may use physical/mechanical or avionics or engine related codes, etc. Categories of codes were created primarily to make it a little bit faster to find a specific code.

### **2.7 Reference Designators.**

This code consists of alphabetic and numeric characters and is used to identify a particular component within the weapons system.

When the reference designator is known, the work unit code can be determined by referring to the Reference Designator/Work Unit Code Cross-Reference List.

### **3 SECURITY.**

When maintenance is being performed on classified equipment, the listing of a work unit code could possibly lead to a breach of security, such as betraying mission capability. Extreme caution should be exercised and if any question exists, it will be resolved according to AFI 31-401 and other applicable directives.

### **4 CHANGES TO CODES.**

The codes in this manual are standard throughout the Air Force and will only be revised by official publication. Recommended changes to this manual regarding its use, format, procedures, or the Action Taken, When Discovered, How Malfunctioned, or Support General Codes will be submitted through command channels in accordance with TO 00-5-1.

### **5 CHANGE RECOMMENDATIONS.**

Recommendations concerning changes to this manual shall be submitted in accordance with 00-5-1. The following exception to 00-5-1 applies: AFTO Forms 22 will be forwarded to the MH-139A Technical Order Manager Agency (TOMA) at Wright Patterson AFB, OH 45433 for processing. E-mail is as follows:  
**thomas.burris@us.af.mil**

### **6 TO INFORMATION.**

General MH-139A TO/eTO Manager Information can be found in the Enhanced Technical Information Management System (ETIMS). MH-139A supplement and finalized AFTO Form 22 information can be found on the MH-139A System Application Site at: **https://etims.cce.af.mil**.



# TYPE MAINTENANCE CODES

## TYPE MAINTENANCE CODES

| CODE | DESCRIPTION   |
|------|---|
| A    | <b>SERVICE</b><br>INCLUDES ALL UNITS OF WORK ASSOCIATED WITH SERVICING, CLEANING AND MOVEMENT OF EQUIPMENT  |
| B    | <b>UNSCHEDULED MAINTENANCE</b><br>INCLUDES ALL UNITS OF WORK ACCOMPLISHED BETWEEN SCHEDULED INSPECTIONS EXCEPT AS PROVIDED IN PRECEDING CODE A, AND EXCLUDING ACCOMPLISHMENT OF TCTO'S. THIS CODE INCLUDES REPAIR AND/OR CALIBRATION OF ITEMS OR EQUIPMENT BETWEEN SCHEDULED CALIBRATION INTERVALS.   |
| C    | <b>SHOP WORK</b><br>INCLUDES ALL UNITS OF WORK ACCOMPLISHED DURING SPECIAL INSPECTIONS. THIS CODE WILL ALSO BE USED FOR ALL SEPARATE 'FIX' AND 'REPAIR' DOCUMENTS GENERATED FOR THE CORRECTION OF DEFICIENCIES NOTED DURING THE SPECIAL INSPECTION.   |
| D    | <b>SCHEDULED INSPECTION</b><br>INCLUDES ALL UNITS OF WORK ACCOMPLISHED DURING SCHEDULED INSPECTIONS SUCH AS DAILY, SAFETY, AND SERVICING INSPECTION, EXCLUDING PERIODIC PHASED INSPECTION. AEROSPACE VEHICLE, INSTALLED ENGINES, AND RELATED MOBILE TRAINING SET -PREFLIGHT, COMBINED PREFLIGHT/POSTFLIGHT, OR END OF RUNWAY INSPECTION: INCLUDES ALL UNITS OF WORK ACCOMPLISHED DURING ALL PHASES OF THE BASIC POSTFLIGHT, THRUFLIGHT OR ALERT POSTFLIGHT INSPECTION. HOURLY POSTFLIGHT OR MINOR INSPECTION INCLUDES ALL DISCREPANCIES NOT WORKCARD RELATED, AND ALL UNITS OF WORK ACCOMPLISHED DURING ALL PHASES OF AN HOURLY OR MINOR (ISOCHRONAL) INSPECTION. |
| E    | <b>HOURLY POSTFLIGHT OR MINOR INSPECTION</b><br>INCLUDES ALL UNITS OF WORK ACCOMPLISHED DURING ALL PHASES OF A PREFLIGHT OR COMBINED PREFLIGHT/POST- FLIGHT INSPECTION. FOR MOBILE TRAINING SETS AND RESIDENT TRAINING EQUIPMENT, THIS INCLUDES ALL UNITS OF WORK ACCOMPLISHED DURING SCHEDULED INSPECTIONS   |

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## **TYPE MAINTENANCE CODES**

| <b>CODE</b> | <b>DESCRIPTION</b>   |
|-------------|--|
|             | SUCH AS DAILY, SAFETY, AND SERVICING INSPECTION,<br>EXCLUDING PERIODIC INSPECTIONS.  |
| <b>G</b>    | <b>TRANSPORT</b><br>INCLUDES ALL UNITS OF WORK PERFORMED BY ACTIVITIES IN RECORDING AIRCRAFT AND EQUIPMENT TRANSPORTABILITY (TO BE USED WITH ACTION CODES "P" AND "Q"). THIS CODE SHOULD BE USED IN CONJUNCTION WITH THE TEAR-DOWN AND BUILD-UP OF AIRCRAFT AND EQUIPMENT BEING TRANSPORTED BY AIR, LAND, AND SEA. |
| <b>J</b>    | <b>SCHEDULED CALIBRATION OF EQUIPMENT OR COMPONENTS</b><br>INCLUDES ALL UNITS OF WORK ACCOMPLISHED CONCURRENTLY WITH A SCHEDULED CALIBRATION.  |
| <b>M</b>    | <b>INTERIOR REFURISHMENT</b><br>INCLUDES ALL UNITS OF WORK ACCOMPLISHED DURING INTERIOR REFURBISHMENT OF AIRCRAFT.   |
| <b>P</b>    | <b>MAJOR PERIODIC OR PHASED INSPECTION/MAINTENANCE</b><br>INCLUDES ALL DISCREPANCIES NOT WORKCARD RELATED, AND ALL UNITS OF WORK ACCOMPLISHED DURING LOOK AND FIX PHASES OF PERIODIC INSPECTIONS, SCHEDULED MAINTENANCE, AND TIME CHANGE ITEMS. EXCLUDING ACCOMPLISHMENT OF TCTOS.                                 |
| <b>R</b>    | <b>DEPOT MAINTENANCE</b><br>INCLUDES ALL UNITS OF WORK ACCOMPLISHED WHEN DEPOT MAINTENANCE OR REHABILITATION IS PERFORMED, REGARDLESS OF LOCATION INCLUDES EMERGENCY ON-SITE REPAIR. EXCLUDES ACCOMPLISHMENT OF TCTO'S.  |
| <b>S</b>    | <b>SPECIAL INSPECTION</b><br>INCLUDES ALL UNITS OF WORK ACCOMPLISHED DURING ALL PHASES OF SPECIAL INSPECTION. EXCLUDING ACCOMPLISHMENT OF TCTO'S.  |
| <b>T</b>    | <b>TIME COMPLIANCE TECHNICAL ORDER (TCTO)</b><br>INCLUDES ACCOMPLISHMENT OF ALL TCTO'S AND STATUS REPORTING.   |
| <b>W</b>    | <b>ENGINE SHOP WORK ON REMOVED ENGINES-MINOR MAINTENANCE</b>   |

**TYPE MAINTENANCE CODES**

| <b>CODE</b> | <b>DESCRIPTION</b>   |
|-------------|--|
|             | PERFORMED ON ENGINES ('SHORT-TIME SPARES') REMOVED TO FACILITATE AIRFRAME TCTO; EXTENDED AIRCRAFT STRUCTURAL LIMITS DUE TO UNTIMELY RECEIPT OF PART, NONAVAILABILITY OF REQUIRED EQUIPMENT, WORK PRIORITY, ETC., RECONCILIATE AIRFRAME AND ENGINE TIME FOR ALIGNMENT OF PERIODIC/PHASE INSPECTIONS; AND TO RECORD MANHOURS EXPENDED IN REPAIR (MINOR MAINTENANCE) OF ENGINES FOR WHICH MINOR REPAIR (OTHER THAN AND NOT INCLUDING JEBM) COULD NOT BE ACCOMPLISHED. |
| <b>X</b>    | <b>REASEARCH AND DEVELOPMENT</b>   |
| <b>Y</b>    | <b>AIRCRAFT TRANSIENT MAINTENANCE</b><br>INCLUDES ALL UNITS OF WORK ACCOMPLISHED ON/OR FOR TRANSIENT AIRCRAFT/ENGINES, INCLUDING NON-AIR FORCE. EXCLUDING ACCOMPLISHMENT OF TCTOS.   |
| <b>Z</b>    | <b>THIS CODE WILL BE USED ONLY FOR RELIABILITY IMPROVEMENT WARRANTY (RIW) ITEMS AND FOR EQUIPMENT MANAGED UNDER THE ADVANCED CONFIGURATION MANAGEMENT SYSTEM (ACMS).</b>   |



# ACTION TAKEN CODES

## NOTE

Codes A through D and 1 through 9 are for shopwork (bench check).

## ACTION TAKEN CODES

| CODE | DESCRIPTION  |
|------|--|
| A    | <b>BENCH CHECKED AND REPAIRED</b><br>THIS CODE WILL BE ENTERED WHEN BENCH CHECK AND REPAIR OF ANY ONE ITEM IS ACCOMPLISHED AT THE SAME TIME. (ALSO SEE CODE F.)  |
| B    | <b>BENCH CHECKED - SERVICEABLE (NO REPAIR REQUIRED).</b><br>THIS CODE WILL BE ENTERED WHEN THE ITEM IS BENCH CHECKED AND NO REPAIR IS REQUIRED.  |
| C    | <b>BENCH CHECKED – REPAIR DEFERRED</b><br>THIS CODE WILL BE ENTERED WHEN BENCH CHECK IS ACCOMPLISHED AND REPAIR ACTION IS DEFERRED. (ALSO SEE CODE F.)   |
| D    | <b>BENCH CHECKED-TRANSFERRED TO ANOTHER BASE OR UNIT</b><br>THIS CODE WILL BE ENTERED WHEN AN ITEM IS BENCH CHECKED AT A FORWARD OPERATING BASE DISPERSED OPERATING BASE OR ENROUTE BASE AND IS FOUND UNSERVICEABLE AND TRANSFERRED TO A MAIN OPERATING BASE OR HOME BASE FOR REPAIR. THIS CODE WILL NOT BE USED FOR ITEMS RETURNED TO A DEPOT FOR OVERHAUL THIS CODE WILL ALSO BE USED WHEN PRECISION MEASUREMENT EQUIPMENT OR OTHER EQUIPMENT IS SENT TO ANOTHER BASE FOR BENCH CHECK/CALIBRATION/ REPAIR AND IS TO BE RETURNED, AND FOR ITEMS FORWARDED TO CONTRACTORS ON BASE LEVEL CONTRACTS. |
| 1    | <b>BENCH CHECKED - NRTS (NOT REPAIRABLE THIS STATION) - REPAIR NOT AUTHORIZED.</b><br>THIS CODE WILL BE ENTERED ONLY WHEN THE SHOP IS NOT AUTHORIZED TO ACCOMPLISH THE REPAIR. THIS CODE SHALL ONLY BE USED WHEN THE REPAIR REQUIRED TO RETURN AN ITEM TO SERVICEABLE STATUS IS SPECIFICALLY PROHIBITED BY CURRENT TECHNICAL DIRECTIVES THIS CODE SHALL NOT  |

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## ACTION TAKEN CODES

| CODE | DESCRIPTION   |
|------|---|
|      | BE USED DUE TO THE LACK OF AUTHORITY FOR EQUIPMENT, TOOLS, FACILITIES, SKILL PARTS OR TECHNICAL DATA.   |
| 2    | <b>BENCH CHECKED - NRTS - LACK OF EQUIPMENT TOOLS, OR FACILITIES.</b><br>THIS CODE WILL BE ENTERED WHEN THE REPAIR IS AUTHORIZED BUT CANNOT BE ACCOMPLISHED DUE TO LACK OF AUTHORIZED EQUIPMENT, TOOLS, OR FACILITIES.  |
| 3    | <b>BENCH CHECKED - NRTS - LACK OF TECHNICAL SKILLS.</b><br>THIS CODE WILL BE ENTERED WHEN REPAIR CANNOT BE ACCOMPLISHED DUE TO LACK OF TECHNICALLY QUALIFIED PEOPLE   |
| 4    | <b>BENCH CHECKED – NRTS – LACK OF PARTS</b><br>THIS CODE WILL BE ENTERED WHEN REPAIR CANNOT BE ACCOMPLISHED DUE TO UNAVAILABLITY OF PARTS.  |
| 5    | <b>BENCH CHECKED – NRTS – SHOP BACKLOG</b><br>THIS CODE WILL BE ENTERED WHEN REPAIR CANNOT BE ACCOMPLISHED DUE TO EXCESSIVE SHOP BACKLOG.   |
| 6    | <b>BENCH CHECKED – NRTS – LACK OF TECHNICAL DATA</b><br>THIS CODE WILL BE ENTERED WHEN REPAIR CANNOT BE ACCOMPLISHED DUE TO LACK OF MAINTENANCE MANUALS, DRAWINGS, ETC., WHICH DESCRIBE DETAILED REPAIR PROCEDURES AND REQUIREMENTS.  |
| 7    | <b>BENCH CHECKED – NRTS – LACK OF EQUIPMENT, TOOLS, FACILITIES, SKILLS, PARTS, OR TECHNICAL DATA</b><br>THIS CODE WILL BE ENTERED WHEN REPAIR IS AUTHORIZED BUT CANNOT BE ACCOMPLISHED DUE TO LACK OF AUTHORIZATION TO OBTAIN OR POSSESS REQUIRED EQUIPMENT, TOOLS, FACILITIES, SKILLS, PARTS OR TECHNICAL DATA.  |
| 8    | <b>BENCH CHECKED – RETURN TO DEPOT</b><br>RETURN TO DEPOTS BY DIRECTION OF SYSTEM MANAGER (SM) OR ITEM MANAGER (IM). USE ONLY WHEN ITEMS THAT ARE AUTHORIZED FOR REPAIR AT THE OPERATING LOCATION ARE DIRECTED TO BE RETURNED TO DEPOT FACILITIES BY SPECIFIC WRITTEN OR VERBAL COMMUNICATION FROM THE IM OR SM, OR WHEN ITEMS ARE TO BE RETURNED TO DEPOT FACILITIES |

## ACTION TAKEN CODES

| CODE | DESCRIPTION  |
|------|--|
|      | FOR MODIFICATION IN ACCORDANCE WITH A TIME COMPLIANCE TECHNICAL ORDER (TCTO), OR AS MDR EXHIBITS.  |
| 9    | <b>BENCH CHECKED – CONDEMNED</b><br>THIS CODE WILL BE ENTERED WHEN THE ITEM CANNOT BE REPAIRED AND IS TO BE PROCESSED FOR CONDEMNATION, RECLAMATION OR SALVAGE. THIS CODE WILL ALSO BE USED WHEN A 'CONDEMNED' CONDITION IS DISCOVERED DURING FIELD MAINTENANCE, DISASSEMBLY OR REPAIR.  |
| E    | <b>INITIAL INSTALLATION</b><br>THIS CODE WILL BE USED FOR INSTALLATION ACTIONS THAT ARE NOT RELATED TO A PREVIOUS REMOVAL ACTION SUCH AS INSTALLATION OF ADDITIONAL EQUIPMENT OR INSTALLATION OF AN ITEM TO REMEDY A SHIP-SHORT CONDITION. THIS CODE WILL BE USED ONLY FOR RELIABILITY IMPROVEMENT WARRANTY (R/W) ITEMS AND FOR EQUIPMENT MANAGED UNDER THE ADVANCED CONFIGURATION MANAGEMENT SYSTEM (ACMS). REFERENCE TO'S 00-20-2-2, 00-20-2-5, AND 00-20-2-7. MUST BE USED WITH HOW MALFUNCTIONED CODE 799.   |
| F    | <b>REPAIR</b><br>THIS CODE WILL NOT BE USED TO CODE 'ON-EQUIPMENT' WORK IF ANOTHER CODE WILL APPLY. WHEN IT IS USED IN A SHOP ENVIRONMENT, THIS CODE WILL DENOTE REPAIR AS A SEPARATE UNIT OF WORK AFTER A BENCH CHECK. SHOP REPAIR INCLUDES THE TOTAL REPAIR MANHOURS AND INCLUDES CLEANING, DISASSEMBLY, INSPECTION, ADJUSTMENT, REASSEMBLY AND LUBRICATION OF MINOR COMPONENTS INCIDENT TO THE REPAIR WHEN THESE SERVICES ARE PERFORMED BY THE SAME WORK CENTER. FOR PRECISION MEASUREMENT EQUIPMENT, THIS CODE WILL BE USED ONLY WHEN CALIBRATION OF THE REPAIRED ITEMS IS REQUIRED. (SEE CODE G). |
| G    | <b>REPAIRS AND/OR REPLACEMENT OF MINOR PARTS</b><br>HARDWARE AND SOFT GOODS (SEALS, GASKETS, ELECTRICAL CONNECTORS, FITTINGS, TUBING, HOSE, WIRING, FASTENERS, VIBRATION ISOLATORS, BRACKETS, ETC.)<br>WORK UNIT CODES DO NOT COVER MOST NON-REPAIRABLE ITEMS. THEREFORE, WHEN ITEMS SUCH AS THOSE IDENTIFIED  |

# **TO 1H-139(M)A-06-1**

## **ACTION TAKEN CODES**

| <b>CODE</b> | <b>DESCRIPTION</b>   |
|-------------|--|
|             | ABOVE ARE REPAIRED OR REPLACED, THIS ACTION TAKEN CODE WILL BE USED. WHEN THIS ACTION TAKEN CODE IS USED THE WORK UNIT CODE WILL IDENTIFY THE ASSEMBLY BEING SERVICED OR MOST DIRECTLY RELATED TO PARTS BEING REPAIRED OR REPLACED.  |
| <b>H</b>    | <b>EQUIPMENT CHECKED – NO REPAIR REQUIRED (FOR ON-EQUIPMENT WORK ONLY)</b><br>THIS CODE WILL BE USED FOR ALL DISCREPANCIES WHICH ARE CHECKED AND FOUND TO REQUIRE NO FURTHER MAINTENANCE ACTION. THIS CODE WILL BE USED ONLY IF IT IS DEFINITELY DETERMINED THAT THE REPORTED DEFICIENCY DOES NOT EXIST OR CANNOT BE DUPLICATED. MUST BE USED WITH HOW MALFUNCTIONED CODE 672, 799, 812, OR 948.   |
| <b>J</b>    | <b>CALIBRATED – NO ADJUSTMENT REQUIRED</b><br>USE THIS CODE WHEN AN ITEM IS CALIBRATED AND FOUND SERVICEABLE WITHOUT NEED OF ADJUSTMENT, OR IS FOUND TO BE IN TOLERANCE, BUT IS ADJUSTED MERELY TO PEAK OR MAXIMIZE THE READING. IF THE ITEM REQUIRES ADJUSTMENT TO MEET CALIBRATION STANDARDS OR TO BRING IT WITHIN TOLERANCE, USE CODE K.  |
| <b>K</b>    | <b>CALIBRATED – ADJUSTMENT REQUIRED</b><br>USE THIS CODE WHEN AN ITEM MUST BE ADJUSTED TO BRING IT IN TOLERANCE OR MEET CALIBRATION STANDARDS. IF THE ITEM WAS REPAIRED OR NEEDS REPAIR IN ADDITION TO CALIBRATION AND/OR ADJUSTMENT, USE CODE F.  |
| <b>L</b>    | <b>ADJUST</b><br>INCLUDES ADJUSTMENTS NECESSARY FOR SAFETY AND PROPER FUNCTIONING OF EQUIPMENT SUCH AS ADJUST, BLEED, BALANCE, RIG, FIT, REROUTE, SEAT/ RESEAT, POSITION/ REPOSITION, PROGRAM/ REPROGRAM, OR ACTUATING RESET BUTTON, SWITCH OR CIRCUIT BREAKER. FOR USE WHEN A DISCREPANCY OR CONDITION IS CORRECTED BY THESE TYPES OF ACTIONS. IF THE IDENTIFIED COMPONENT OR ASSEMBLY ALSO REQUIRES REPLACEMENT OF BITS AND PIECES AS WELL AS ADJUSTMENT, ENTER THE APPROPRIATE REPAIR ACTION TAKEN CODE INSTEAD OF L. |
| <b>M</b>    | <b>DISASSEMBLE</b>   |

**ACTION TAKEN CODES**

| <b>CODE</b> | <b>DESCRIPTION</b>  |
|-------------|---|
|             | THIS CODE WILL BE ENTERED FOR DISASSEMBLY ACTION WHEN THE COMPLETE MAINTENANCE JOB IS BROKEN INTO PARTS AND REPORTED AS SUCH. DO NOT USE FOR 'ON EQUIPMENT' WORK.   |
| <b>N</b>    | <b>ASSEMBLE</b><br>THIS CODE WILL BE ENTERED FOR ASSEMBLY ACTION WHEN THE COMPLETE MAINTENANCE JOB IS BROKEN INTO PARTS AND REPORTED AS SUCH. DO NOT USE FOR 'ON EQUIPMENT' WORK.   |
| <b>P</b>    | <b>REMOVED</b><br>THIS CODE WILL BE ENTERED WHEN AN ITEM IS REMOVED AND ONLY THE REMOVAL IS TO BE ACCOUNTED FOR IN THIS INSTANCE, DELAY OR ADDITIONAL ACTIONS, WILL BE ACCOUNTED FOR SEPARATELY. (ALSO SEE CODES Q, R, S, T, AND U). DO NOT USE FOR 'OFF EQUIPMENT' WORK. |
| <b>Q</b>    | <b>INSTALLED</b><br>THIS CODE WILL BE ENTERED WHEN AN ITEM IS INSTALLED AND ONLY THE INSTALLATION ACTION IS TO BE ACCOUNTED FOR. (ALSO SEE CODES E, P, R, S, T, AND U). DO NOT USE FOR 'OFF EQUIPMENT' WORK.  |
| <b>R</b>    | <b>REMOVE AND REPLACE</b><br>THIS CODE WILL BE ENTERED WHEN AN ITEM IS REMOVED AND ANOTHER LIKE ITEM IS INSTALLED. (ALSO SEE CODES T, AND U.). DO NOT USE FOR 'OFF EQUIPMENT' WORK.   |
| <b>S</b>    | <b>REMOVE AND REINSTALL</b><br>THIS CODE WILL BE ENTERED WHEN AN ITEM IS REMOVED, FOR ANY REASON, AND THE SAME ITEM REINSTALLED. (ALSO SEE CODES T, AND U). DO NOT USE FOR 'OFF EQUIPMENT' WORK. MUST BE USED WITH HOW MAL 800 804, OR 805.                               |
| <b>T</b>    | <b>REMOVED FOR CANNIBALIZATION</b><br>THIS CODE WILL BE USED WHEN A COMPONENT IS CANNIBALIZED. THE WORK UNIT CODE WILL IDENTIFY THE COMPONENT BEING CANNIBALIZED. MUST BE USED WITH HOW MALFUNCTIONED CODE 875.   |
| <b>U</b>    | <b>REPLACE AFTER CANNIBALIZATION</b>  |

# TO 1H-139(M)A-06-1

## ACTION TAKEN CODES

| CODE | DESCRIPTION   |
|------|---|
|      | THIS CODE WILL BE ENTERED WHEN A COMPONENT IS REPLACED AFTER CANNIBALIZATION. DO NOT USE THIS CODE FOR 'OFF EQUIPMENT' WORK MUST BE USED WITH HOW MALFUNCTIONED CODE 875.   |
| V    | <b>CLEAN</b><br>THIS CODE WILL BE ENTERED WHEN CLEANING IS ACCOMPLISHED TO CORRECT A DISCREPANCY AND/OR WHEN CLEANING IS NOT ACCOUNTED FOR AS PART OF A REPAIR ACTION SUCH AS CODE F. INCLUDES WASHING, ACID BATH, BUFFING, SAND BLASTING, DEGREASING, DECONTAMINATION, ETC. CLEANING AND WASHING OF COMPLETE ITEMS SUCH AS GROUND EQUIPMENT, VEHICLES, MISSLES OR AIRCRAFT SHOULD BE RECORDED BY UTILIZING SUPPORT GENERAL CODES.  |
| W    | <b>NON-DESTRUCTIVE INSPECTION</b>   |
| X    | <b>TEST – INSPECTION – SERVICE</b><br>THIS CODE WILL BE ENTERED WHEN AN ITEM IS TESTED, SERVICED OR INSPECTED (OTHER THAN BENCH CHECK) AND NO REPAIR IS REQUIRED. THIS CODE DOES NOT INCLUDE SERVICING OR INSPECTION THAT CAN BE CHARGED TO SUPPORT GENERAL WORK UNIT CODES.  |
| Y    | <b>TROUBLESHOOT</b><br>ENTER THIS CODE WHEN THE TIME EXPENDED IN LOCATING A DISCREPANCY IS GREAT ENOUGH TO WARRANT SEPARATING THE TROUBLESHOOT TIME FROM THE REPAIR TIME. USE OF THIS CODE NECESSITATES COMPLETION OF TWO SEPARATE LINE ENTRIES, OR TWO SEPARATE FORMS. ONE FOR THE TROUBLESHOOT PHASE AND ONE FOR THE REPAIR PHASE WHEN RECORDING THE TROUBLESHOOT TIME SEPARATE FROM THE REPAIR TIME, THE TOTAL TIME TAKEN TO ISOLATE THE PRIMARY CAUSE OF THE DISCREPANCY SHOULD BE RECORDED UTILIZING THE WORK UNIT CODE OF THE DEFECTIVE SYSTEM OR SUBSYSTEM. DO NOT USE FOR 'OFF EQUIPMENT' WORK. |
| Z    | <b>CORROSION REPAIR</b><br>INCLUDES CLEANING, TREATING, PRIMING AND PAINTING OF CORRODED ITEMS. THIS CODE SHOULD ALWAYS BE USED WHEN ACTUALLY TREATING CORRODED ITEMS,  |

# **TO 1H-139(M)A-06-1**

## **ACTION TAKEN CODES**

| <b>CODE</b> | <b>DESCRIPTION</b>   |
|-------------|--|
|             | EITHER ON EQUIPMENT OR IN THE SHOP. THE WORK UNIT CODE SHOULD IDENTIFY THE ITEM THAT IS CORRODED. USE SUPPORT GENERAL CODE 09000 FOR PAINTING OR CORROSION PREVENTIVE TREATMENT PRIOR TO AN ITEM BEING CORRODED. |

**IV-007/(IV-008 blank)**



**WHEN DISCOVERED CODES****WHEN DISCOVERED CODES**

| <b>CODE</b> | <b>DESCRIPTION</b>   |
|-------------|--|
| A           | BEFORE FLIGHT – ABORT  |
| B           | BEFORE FLIGHT – NO ABORT   |
| C           | IN-FLIGHT – ABORT  |
| D           | IN-FLIGHT  |
| E           | AFTER FLIGHT   |
| F           | BETWEEN FLIGHTS – GROUND CREW (WHEN NOT ASSOCIATED WITH AN INSPECTION)   |
| G           | GROUND ALERT/OPERATIONALLY READY – NOT DEGRADED<br>USE FOR DISCREPANCIES DISCOVERED WHILE THE WEAPON SYSTEM IS IN AN OPERATIONALLY READY/ALERT STATUS AND THE DISCREPANCY OPERATIONALLY READY/ALERT DEGRADATION: DO NOT USE THIS CODE FOR DISCREPANCIES DISCOVERED DURING MAINTENANCE/EXERCISE COVERED BY CODES B, D, J, N, P, Q, R, T OR V. |
| H           | THRUFLIGHT INSPECTION  |
| J           | PREFLIGHT INSPECTION   |
| K           | HOURLY POSTFLIGHT INSPECTION   |
| L           | DURING TRAINING OR MAINTENANCE ON TRAINING EQUIPMENT.  |
| M           | PHASED/SCHEDULED/PERIODIC INSPECTION<br>USE FOR DISCREPANCIES DISCOVERED DURING THE PERFORMANCE OF INSPECTIONS SPECIFIED BY THE DASH-6 TECHNICAL ORDER EXCEPT DASH-6 CALIBRATIONS (SEE CODE T).  |
| N           | GROUND ALERT   |
| P           | FUNCTIONAL CHECK FLIGHT  |
| Q           | SPECIAL INSPECTION<br>USE FOR DISCREPANCIES DISCOVERED DURING THE PERFORMANCE OF "SPECIAL" OR "ONE TIME" INSPECTIONS   |

# **TO 1H-139(M)A-06-1**

## **WHEN DISCOVERED CODES**

| <b>CODE</b> | <b>DESCRIPTION</b>  |
|-------------|---|
|             | DIRECTED BY LOCAL OR HIGHER AUTHORITY INCLUDING THOSE DIRECTED BY THE "SPECIAL INSPECTION" PORTION OF THE DASH-6 TECHNICAL ORDER (EXCLUDING MINUTEMAN LAUNCH CAPABILITY TEST).  |
| <b>R</b>    | <b>QUALITY CONTROL CHECK</b><br>USE FOR ALL DISCREPANCIES DISCOVERED BY QUALITY CONTROL PERSONNEL DURING ANY PHASE OF MAINTENANCE/OPERATION   |
| <b>S</b>    | <b>DEPOT LEVEL MAINTENANCE</b><br>USE ONLY FOR DISCREPANCIES DISCOVERED DURING MAINTENANCE PERFORMED AT AFMC ACTIVITIES (INCLUDING SRA'S) AND THOSE DISCREPANCIES DISCOVERED DURING DEPOT LEVEL MAINTENANCE PERFORMED "ON LOCATION" SUCH AS COMPLIANCE WITH DEPOT LEVEL TCTOS AND MODIFICATION PROGRAMS BY DEPOT/CONTRACTOR PERSONNEL; SUPPORT BASE CIVIL ENGINEERING SHOPS MAY USE THIS CODE WHEN PERFORMING "DEPOT LEVEL" CATEGORY MAINTENANCE/REPAIR/OVERHAUL ON MISSILE WEAPON SYSTEM RPIE. |
| <b>T</b>    | <b>DURING SCHEDULED CALIBRATION</b><br>USE FOR DISCREPANCIES DISCOVERED DURING CALIBRATION ACTIONS DIRECTED BY APPROPRIATE TECHNICAL DIRECTIVES TO BE ACCOMPLISHED ON A PERIODIC/RECURRING BASIS.   |
| <b>U</b>    | <b>OIL ANALYSIS AND NON-DESTRUCTIVE INSPECTION</b><br>INCLUDES OPTICAL, PENETRANT, MAGNETIC PARTICLE, RADIOGRAPHIC, EDDY CURRENT, ULTRASONIC, SPECTROMETRIC OIL ANALYSIS, ETC.  |
| <b>V</b>    | <b>DURING UNSCHEDULED CALIBRATION</b><br>USE FOR DISCREPANCIES DISCOVERED DURING CALIBRATION ACTIONS NOT COVERED BY CODE T.   |
| <b>W</b>    | <b>IN-SHOP REPAIR AND/OR DISASSEMBLY FOR MAINTENANCE</b><br>USE OF THIS CODE IS RESTRICTED TO DISCREPANCIES DISCOVERED WHILE AN ITEM IS UNDERGOING "IN-SHOP" BENCH CHECK AND /OR REPAIR; USE CODE "F" FOR REPAIR AND/OR DISASSEMBLY ACTIONS PERFORMED "ON-  |

## WHEN DISCOVERED CODES

| CODE | DESCRIPTION  |
|------|--|
|      | EQUIPMENT" WHEN THESE ACTIONS ARE NOT PART OF AN ACTION COVERED BY ONE OF THE OTHER CODES.   |
| X    | <b>ENGINE TEST CELL OPERATION</b>  |
| Y    | <b>UPON RECEIPT OR WITHDRAWAL FROM SUPPLY STOCKS</b><br>USE FOR DISCREPANCIES DISCOVERED DURING BENCH CHECK OR INSTALLATION ON ITEMS RECEIVED FROM AFMC DEPOTS, CONTRACTORS, SRA'S AND/OR SUPPLY STOCKS; THIS CODE IS INTENDED TO PINPOINT ITEMS WHICH ARE CLASSED AS "SERVICEABLE" AT TIME OF ISSUE AND LATER PROVED TO BE "UNSERVICEABLE." |
| Z    | <b>AGM UNDER WING CHECK.</b>   |
| 0    | <b>EDDY CURRENT</b>  |
| 1    | <b>MAGNETIC PARTICLE</b>   |
| 2    | <b>DURING OPERATION OF MALFUNCTION ANALYSIS AND RECORDING EQUIPMENT OR SUBSEQUENT DATA ANALYSIS</b>  |
| 3    | <b>ISO/HOME STATION CHECK</b>  |
| 4    | <b>CORROSION CONTROL INSPECTION</b>  |
| 5    | <b>INTERIOR REBURNISHMENT</b>  |
| 6    | <b>ALL OTHER NONDESTRUCTIVE INSPECTIONS</b>  |
| 7    | <b>X-RAY</b>   |
| 8    | <b>ULTRASONIC</b>  |
| 9    | <b>FLUORESCENT PENETRANT</b>   |



# HOW MALFUNCTION CODES ALPHABETICAL LISTING (AVIONICS/ ELECTRICAL/COMPUTER)

## NOTE

Technicians must use a How Malfunctioned Code (HMC) from the engine related codes when documenting the removal of engines or engine components that are AFI 21-104 reportable. For all other maintenance actions, on any type of equipment, there are no restrictions on the use of codes by category. If a code is appropriate for an observed malfunction, it may be used regardless of the category in which it is listed. Avionics shops may use engine codes. Engine shops may use avionics codes. Tire shops may use physical/mechanical, avionic, or engine codes, etc. Categories of codes were created primarily for ease in finding a specific code.

### CODE DESCRIPTION

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|     |   |
|-----|---|
| 652 | ALIGN TIME EXCESSIVE                                      |
| 103 | ATTACK DISPLAY INCORRECT                                  |
| 627 | ATTENUATION INCORRECT                                     |
| 693 | AUDIO FAULTY  |
| 658 | BEARING/HEADING ERROR (NAVIGATION EQUIPMENT)              |
| 672 | BUILT-IN TEST (BIT) FALSE ALARM                           |
| 644 | BUILT-IN TEST (BIT) INDICATED FAULT                       |
| 080 | BURNED OUT OR DEFECTIVE LAMP, METER, OR INDICATING DEVICE |
| 969 | CANNOT RESONATE INPUT CAVITY                              |
| 025 | CAPACITANCE INCORRECT                                     |
| 956 | COMPUTER EQUIPMENT MALFUNCTION                            |
| 949 | COMPUTER MEMORY ERROR/DEFECT                              |
| 028 | CONDUCTANCE INCORRECT                                     |
| 029 | CURRENT INCORRECT   |

## **TO 1H-139(M)A-06-1**

### **CODE DESCRIPTION**

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|     |   |
|-----|---|
| 943 | DATA ERROR  |
| 657 | DISTANCE MEASUREMENT ERROR (NAVIGATION EQUIPMENT) |
| 974 | DOES NOT TRACK TUNING CURVE                       |
| 242 | FAILED TO OPERATE – SPECIFIC REASON UNKNOWN       |
| 290 | FAILS DIAGNOSTIC/AUTOMATIC TEST                   |
| 959 | FAILS TO TRANSFER TO REDUNDANT EQUIPMENT          |
| 051 | FAILS TO TUNE OR DRIFTS                           |
| 698 | FAULTY CARD, TAPE, PROGRAM, OR DISC               |
| 001 | FAULTY TUBE, TRANSISTOR, OR INTEGRATED CIRCUIT    |
| 037 | FLUCTUATES, UNSTABLE, OR ERRATIC                  |
| 991 | FREQUENCY OUT OF BAND, UNSTABLE, OR INCORRECT     |
| 982 | FROZEN TUNING MECHANISM                           |
| 472 | FUSE BLOWN OR DEFECTIVE CIRCUIT PANEL/BREAKER     |
| 625 | GATING INCORRECT                                  |
| 653 | GROUND SPEED ERROR                                |
| 631 | GYRO BIAS VOLTAGE INCORRECT                       |
| 824 | GYRO PRECESSES                                    |
| 065 | HIGH VOLTAGE OR STANDING WAVE RATIO               |
| 942 | ILLEGAL OPERATION OR ADDRESS                      |
| 816 | IMPEDANCE INCORRECT                               |
| 721 | IMPROPER RESPONSE TO ELECTRICAL INPUT             |
| 718 | IMPROPER RESPONSE TO MECHANICAL INPUT             |
| 088 | INCORRECT GAIN                                    |
| 064 | INCORRECT MODULATION                              |
| 255 | INCORRECT OUTPUT                                  |
| 626 | INDUCTANCE INCORRECT                              |
| 987 | INPUT/OUTPUT PULSE DISTORTION                     |

**CODE DESCRIPTION**

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|     |  |
|-----|--|
| 350 | INSULATION BREAKDOWN                   |
| 901 | INTERMITTENT                           |
| 383 | LOCK-ON MALFUNCTION                    |
| 988 | LOSS OF VACUUM                         |
| 989 | LOW COOLANT FLOW RATE                  |
| 962 | LOW POWER, ELECTRICAL                  |
| 957 | NO DISPLAY                             |
| 607 | NO-GO INDICATION                       |
| 254 | NO OUTPUT                              |
| 941 | NONPROGRAMMED HALT                     |
| 450 | OPEN                                   |
| 457 | OSCILLATING                            |
| 609 | OUT OF TRACK/FAILS TO TRACK            |
| 964 | POOR SPECTRUM                          |
| 567 | RESISTANCE INCORRECT                   |
| 583 | SCOPE PRESENTATION INCORRECT OR FAULTY |
| 635 | SENSITIVITY INCORRECT                  |
| 615 | SHORTED                                |
| 649 | SWEET MALFUNCTION                      |
| 695 | SYNC ABSENT OR INCORRECT               |
| 580 | TEMPERATURE SENSITIVE                  |
| 656 | TERMINAL ERROR – AZIMUTH EXCESSIVE     |
| 654 | TERMINAL ERROR – CEP EXCESSIVE         |
| 655 | TERMINAL ERROR – RANGE EXCESSIVE       |
| 637 | TRIGGERING INCORRECT                   |
| 939 | UNABLE TO LOAD PROGRAM                 |

## **TO 1H-139(M)A-06-1**

### **CODE DESCRIPTION**

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- |     |   |
|-----|---|
| 944 | UPDATE OR VERIFICATION OF PROGRAM/SOFTWARE LOAD |
| 692 | VIDEO FAULTY                                    |
| 169 | VOLTAGE INCORRECT                               |

# HOW MALFUNCTION CODES ALPHABETICAL LISTING (PHYSICAL/MECHANICAL)

## NOTE

Technicians must use a How Malfunctioned Code (HMC) from the engine related codes when documenting the removal of engines or engine components that are AFI 21-104 reportable. For all other maintenance actions, on any type of equipment, there are no restrictions on the use of codes by category. If a code is appropriate for an observed malfunction, it may be used regardless of the category in which it is listed. Avionics shops may use engine codes. Engine shops may use avionics codes. Tiresshops may use physical/mechanical, avionic, or engine codes, etc. Categories of codes were created primarily for ease in finding a specific code.

## WITH DEFECT

### CODE DESCRIPTION

---

|     |   |
|-----|---|
| 127 | ADJUSTMENT OR ALIGNMENT IMPROPER                        |
| 651 | AIR IN SYSTEM   |
| 710 | BEARING FAILURE OR FAULTY                               |
| 780 | BENT, BUCKLED, COLLAPSED, DENTED, DISTORTED, OR TWISTED |
| 135 | BINDING, STUCK, OR JAMMED                               |
| 070 | BROKEN  |
| 900 | BURNED OR OVERHEATED                                    |
| 111 | BURST OR RUPTURED                                       |
| 170 | CORRODED MILD/MODERATE                                  |
| 667 | CORRODED SEVERE   |
| 190 | CRACKED   |
| 116 | CUT   |
| 972 | DAMAGE PROBE  |

# **TO 1H-139(M)A-06-1**

## **WITH DEFECT**

| <b>CODE</b> | <b>DESCRIPTION</b>  |
|-------------|---|
| 846         | DELAMINATED   |
| 865         | DETERIORATED (FOR PROTECTIVE COATING/SEALANT DEFECTIVE, USE WITH ACTION TAKEN CODE Z)                       |
| 932         | DOES NOT ENGAGE, LOCK, OR UNLOCK CORRECTLY  |
| 553         | DOES NOT MEET SPECIFICATIONS, DRAWINGS, OR OTHER CONFORMANCE REQUIREMENTS (USE WITH WHEN DISCOVERED CODE Y) |
| 632         | EXPENDED (THERMAL BATTERY, FIRE EXTINGUISHER, ETC.)   |
| 602         | FAILED OR DAMAGED DUE TO MALFUNCTION OF ASSOCIATED EQUIPMENT  |
| 301         | FOREIGN OBJECT DAMAGE (FOD)   |
| 300         | FOREIGN OBJECT, NO DAMAGE   |
| 884         | LEAD BROKEN   |
| 381         | LEAKING, INTERNAL OR EXTERNAL   |
| 730         | LOOSE   |
| 105         | LOOSE, DAMAGED, OR MISSING HARDWARE (NUTS, BOLTS, SCREWS, CLAMPS, SAFETY WIRES, ETC.)                       |
| 750         | MISSING   |
| 008         | NOISY/CHATTERING  |
| 948         | OPERATOR ERROR  |
| 669         | POTTING MATERIAL MELTING (REVERSION PROCESS)  |
| 525         | PRESSURE INCORRECT/FLUCTUATES   |
| 002         | SERVICING (MAY BE USED WITH WUC ITEMS)  |
| 585         | SHEARED   |
| 167         | TENSION OR TORQUE INCORRECT   |
| 784         | TIRE BEAD AREA DAMAGED OR DEFECTIVE   |
| 785         | TIRE INSIDE SURFACE DAMAGED OR DEFECTIVE  |

**WITH DEFECT**

**CODE DESCRIPTION**

---

- 783 TIRE SIDEWALL DAMAGED OR DEFECTIVE
- 782 TIRE TREAD AREA DEFECTIVE
- 599 TRAVEL OR EXTENSION INCORRECT
- 622 WET/CONDENSATION
- 020 WORN, CHAFFED, FRAYED OR TORN



# HOW MALFUNCTION CODES ALPHABETICAL LISTING (ENGINE RELATED)

## NOTE

Technicians must use a How Malfunctioned Code (HMC) from the engine related codes when documenting the removal of engines or engine components that are AFI 21-104 reportable. For all other maintenance actions, on any type of equipment, there are no restrictions on the use of codes by category. If a code is appropriate for an observed malfunction, it may be used regardless of the category in which it is listed. Avionics shops may use engine codes. Engine shops may use avionics codes. Tire shops may use physical/mechanical, avionic, or engine codes, etc. Categories of codes were created primarily for ease in finding a specific code.

## OBSERVED OR RECORDED OPERATIONAL CONDITIONS

### CODE DESCRIPTION

---

|     |   |
|-----|---|
| 207 | AUGMENTOR INDUCED STAGNATION                            |
| 208 | AUGMENTOR NOZZLE MECHANISM DETERIORATION                |
| 224 | BACKUP/EMERGENCY CONTROL SYSTEM FAILURE                 |
| 225 | BLEED AIR MALFUNCTION                                   |
| 228 | COMPRESSOR INLET VARIABLE VANE (CIVV) GEOMETRY IMPROPER |
| 513 | COMPRESSOR STALLS                                       |
| 198 | CONTAMINATED FUEL                                       |
| 201 | CONTAMINATED OIL  |
| 223 | CONTROL SYSTEM COMPONENT MALFUNCTION                    |
| 212 | CORRODED EXTERNAL SURFACES                              |
| 211 | CORRODED INTERNAL SURFACES                              |
| 226 | ENGINE START TIME BEYOND LIMITS                         |
| 195 | EXCEEDING QUALITY CHECK TEMPERATURE LIMIT               |

# TO 1H-139(M)A-06-1

## OBSERVED OR RECORDED OPERATIONAL CONDITIONS

| CODE | DESCRIPTION   |
|------|---|
| 196  | EXCESSIVE OIL FROM BREather, OR HIGH SUMP PRESSURE                      |
| 193  | EXCESSIVE STALLS  |
| 690  | EXCESSIVE VIBRATION OR ROUGH OPERATION                                  |
| 069  | FLAMEOUT  |
| 197  | FUEL LEAKAGE  |
| 194  | HIGH BREather PRESSURE  |
| 191  | HIGH EGT  |
| 203  | HIGH OIL PRESSURE   |
| 177  | HIGH OR LOW FUEL CONSUMPTION  |
| 199  | HIGH OR LOW OIL CONSUMPTION   |
| 317  | HOT STARTS  |
| 917  | IMPENDING FAILURE OR LATENT DEFECT INDICATED BY NDI                     |
| 314  | INABILITY TO ACCELERATE, ALL POWER SETTINGS ABOVE IDLE                  |
| 475  | INABILITY TO START, GROUND OR AIR                                       |
| 209  | INTERNAL NOISE ON SHUTDOWN/START  |
| 916  | JOINT OIL ANALYSIS PROGRAM (JOAP) REMOVAL                               |
| 884  | LEAD BROKEN   |
| 202  | LOW OIL PRESSURE  |
| 537  | LOW POWER OR THRUST   |
| 372  | METAL IN SUMP/SCREEN OR ON MAGNETIC PLUG                                |
| 253  | MISFIRES  |
| 200  | OIL LEAKAGE   |
| 464  | OVERSPEED   |
| 192  | OVERTEMPERATURE   |
| 227  | REAR COMPRESSOR VARIABLE VANE (RCVV) GEOMETRY<br>IMPROPER/AXIAL FLUTTER |

**OBSERVED OR RECORDED OPERATIONAL CONDITIONS****CODE DESCRIPTION**

---

- 210 SERVICING WITH IMPROPER GRADE OR TYPE OF FUEL OR OIL
- 204 SMOKE OR FUMES IN COCKPIT
- 315 SURGES/FLUCTUATES
- 334 TEMPERATURE LIMITS EXCEEDED
- 561 UNABLE TO ADJUST TO LIMITS

**IDENTIFIED COMPONENTS****CODE DESCRIPTION**

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- 160 BEARING AND/OR SUPPORT FAILURE
- 161 BEARING FAILURE (CAUSING ROTOR SHIFT SEIZURE)
- 484 BLADE SHINGLING
- 147 COMBUSTION CASE BURN OR HOT SPOT
- 146 COMBUSTION DAMAGE
- 141 COMPRESSOR CASE FAILURE OR EXCESSIVE AIR LEAKAGE
- 142 COMPRESSOR DAMAGE DUE TO FAILURE OR SEIZURES
- 144 COMPRESSOR ROTOR CHANGE (OTHER THAN FOD)
- 145 CRACKED DIFFUSER CASES
- 139 CRACKED OR WARPED INLET GUIDE
- 143 DAMAGE/CRACKED COMPRESSOR CASE
- 136 DAMAGED/CRACKED FAN STATOR CASE
- 137 DAMAGED/CRACKED FAN STATOR VANES
- 148 DAMAGED/CRACKED TURBINE FRAME/CASE (BURNED THROUGH)
- 846 DELAMINATED; SEPARATION OF LAMINATED LAYERS (COMPOSITE STRUCTURE)
- 230 DIRTY, CONTAMINATED OR SATURATED BY FOREIGN MATERIAL
- 155 ENGINE TO A/C MOUNT FAILURE

# **TO 1H-139(M)A-06-1**

## **IDENTIFIED COMPONENTS**

| <b>CODE</b> | <b>DESCRIPTION</b>                                   |
|-------------|--|
| 138         | FAN BLADE DAMAGE                                     |
| 140         | FROZEN FAN   |
| 277         | FUEL NOZZLE/OIL LINE COKING                          |
| 410         | LACK OF/OR IMPROPER LUBRICATION                      |
| 458         | OUT OF BALANCE                                       |
| 425         | PITTED, NICKED, CHIPPED, SCORED, SCRATCHED OR CRAZED |
| 174         | QEC DISCREPANCY                                      |
| 279         | SPRAY PATTERN DEFECTIVE                              |
| 153         | TURBINE DAMAGE DUE TO MATERIAL FAILURE               |
| 152         | TURBINE NOZZLE FAILURE                               |
| 151         | TURBINE WHEEL FAILURE                                |

## **CONDITION MONITORING**

| <b>CODE</b> | <b>DESCRIPTION</b>  |
|-------------|---|
| 175         | ADVERSE EGT/TIT TREND   |
| 181         | ADVERSE FUEL FLOW TREND   |
| 180         | ADVERSE OIL CONSUMPTION TREND   |
| 176         | ADVERSE RPM TREND   |
| 188         | BORESCOPE TREND INDICATES COMBUSTOR SECTION<br>DETERIORATION              |
| 187         | BORESCOPE TREND INDICATES COMPRESSOR SECTION<br>DETERIORATION             |
| 189         | BORESCOPE TREND INDICATES TURBINE SECTION DETERIORATION                   |
| 179         | EXHAUST PRESSURE RATIO (EPR) TREND  |
| 185         | PERFORMANCE TREND INDICATES ACCESSORY SECTION<br>DETERIORATION            |
| 183         | PERFORMANCE TREND INDICATES COMBUSTION SECTION<br>DETERIORATION OR DAMAGE |

**CONDITION MONITORING****CODE DESCRIPTION**

---

- 182 PERFORMANCE TREND INDICATES COMPRESSOR SECTION DETERIORATION OR DAMAGE
- 184 PERFORMANCE TREND INDICATES TURBINE SECTION DETERIORATION OR DAMAGE
- 186 REMOVED FOR FURTHER TEST CELL DIAGNOSTIC CHECK VIBRATION TREND
- 178 VIBRATION TREND

**CHANCE OCCURRENCE****CODE DESCRIPTION**

---

- 731 BATTLE DAMAGE
- 480 DAMAGE BY AIRCRAFT ACCIDENT OR INCIDENT
- 303 DAMAGE BY SEMI-SOLID FOREIGN OBJECTS (BIRDS)
- 476 DAMAGE BY SOLID FOREIGN OBJECTS (METAL, STONE)
- 477 DAMAGE BY SEMI-SOLID FOREIGN OBJECT (ICE)
- 478 DAMAGE BY SEMI-SOLID FOREIGN OBJECTS (RAGS, PLASTIC, RUBBER, ETC)
- 479 DAMAGE FROM SIMULATED COMBAT (AIR TO AIR/AIR TO GROUND)
- 481 EXPOSURE TO FIRE EXTINGUISHING AGENT

**MANAGERIAL DECISION****CODE DESCRIPTION**

---

- 879 EXPIRATION OF MAXIMUM CYCLES/SORTIES FOR ENGINES, MODULE OR COMPONENTS (TO DIRECTED)
- 866 EXPIRATION OF MAXIMUM TIME (TO DIRECTED)
- 086 IMPROPER HANDLING, SHIPPING OR MAINTENANCE
- 876 NON-TECHNICAL ORDER DIRECTED REMOVAL/REMOVAL FOR RECONFIGURATION

# **TO 1H-139(M)A-06-1**

## **MANAGERIAL DECISION**

| <b>CODE</b> | <b>DESCRIPTION</b>   |
|-------------|--|
| 880         | OPPORTUNISTIC MAINTENANCE REMOVAL (MODULES AND TRACKED COMPONENTS APPROACHING TO LIMITS) |
| 872         | REMOVAL DURING AIRCRAFT PROGRAMMED DEPOT MAINTENANCE                                     |
| 870         | REMOVAL FOR RESEARCH, TEST OR DIAGNOSTIC EVENT   |
| 875         | REMOVAL FOR OR REPLACEMENT AFTER (CANNIBALIZATION)                                       |
| 881         | REMOVAL TO PERFORM MINOR INSPECTION (BORESCOPE - TO DIRECTED)                            |
| 878         | REMOVAL TO PERFORM SCHEDULED/SPECIAL INSPECTION (PE, HSI, ETC, TO DIRECTED)              |
| 868         | REMOVED/ROLLED BACK FOR FAILED EXTERNAL ENGINE COMPONENT REINSTALLED IN SAME AIRCRAFT    |
| 874         | STORAGE DAMAGE OR DETERIORATION  |
| 877         | TO IDENTIFIED COMPONENTS   |
| 867         | TRANSFER TIME LIMIT (TO 2-1-18)  |

# HOW MALFUNCTION CODES NUMERICAL LISTING (AVIONICS/ ELECTRICAL/COMPUTER)

## NOTE

Technicians must use a How Malfunctioned Code (HMC) from the engine related codes when documenting the removal of engines or engine components that are AFI 21-104 reportable. For all other maintenance actions, on any type of equipment, there are no restrictions on the use of codes by category. If a code is inappropriate for an observed malfunction, it may be used regardless of the category in which it is listed. Avionics shops may use engine codes. Engine shops may use avionics codes. Tire shops may use physical/mechanical, avionic, or engine codes, etc. Categories of codes were created primarily for ease in finding a specific code.

## AVIONICS/ELECTRONICS/COMPUTER

### CODE DESCRIPTION

|     |  |
|-----|--|
| 001 | FAULTY TUBE, TRANSISTOR OR INTEGRATED CIRCUIT            |
| 025 | CAPACITANCE INCORRECT                                    |
| 028 | CONDUCTANCE INCORRECT                                    |
| 029 | CURRENT INCORRECT  |
| 037 | FLUCTUATES, UNSTABLE OR ERRATIC                          |
| 051 | FAILS TO TUNE OR DRIFTS                                  |
| 064 | INCORRECT MODULATION                                     |
| 065 | HIGH VOLTAGE OR STANDING WAVE RATIO                      |
| 080 | BURNED OUT OR DEFECTIVE LAMP, METER OR INDICATING DEVICE |
| 088 | INCORRECT GAIN   |
| 103 | ATTACK DISPLAY INCORRECT                                 |
| 169 | VOLTAGE INCORRECT  |
| 242 | FAILED TO OPERATE-SPECIFIC REASON UNKNOWN                |

# TO 1H-139(M)A-06-1

## AVIONICS/ELECTRONICS/COMPUTER

| CODE | DESCRIPTION                                   |
|------|---|
| 254  | NO OUTPUT                                     |
| 255  | INCORRECT OUTPUT                              |
| 290  | FAILS DIAGNOSTIC/AUTOMATIC TEST               |
| 350  | INSULATION BREAKDOWN                          |
| 383  | LOCK ON MALFUNCTION                           |
| 450  | OPEN  |
| 457  | OSCILLATING                                   |
| 472  | FUSE BLOWN OR DEFECTIVE CIRCUIT PANEL/BREAKER |
| 567  | RESISTANCE INCORRECT                          |
| 580  | TEMPERATIJRE SENSITIVE                        |
| 583  | SCOPE PRESENTATION INCORRECT OR FAULTY        |
| 607  | NO-GO INDICATION                              |
| 609  | OUT OF TRACK/FAILS TO TRACK                   |
| 615  | SHORTED                                       |
| 625  | GATING INCORRECT                              |
| 626  | INDUCTANCE INCORRECT                          |
| 627  | ATTENUATION INCORRECT                         |
| 631  | GYRO BIAS VOLTAGE INCORRECT                   |
| 635  | SENSITIVITY INCORRECT                         |
| 637  | TRIGGERING INCORRECT                          |
| 644  | BUILT IN TEST (BIT) INDICATED FAULT           |
| 649  | SWEET MALFUNCTION                             |
| 652  | ALIGN TIME EXCESSIVE                          |
| 653  | GROUND SPEED ERROR                            |
| 654  | TERMINAL ERROR - CEP EXCESSIVE                |

## AVIONICS/ELECTRONICS/COMPUTER

**CODE DESCRIPTION**

|     |   |
|-----|---|
| 655 | TERMINAL ERROR - RANGE EXCESSIVE                  |
| 656 | TERMINAL ERROR - AZIMUTH EXCESSIVE                |
| 657 | DISTANCE MEASUREMENT ERROR (NAVIGATION EQUIPMENT) |
| 658 | BEARING/HEADING ERROR (NAVIGATION EQUIPMENT)      |
| 672 | BUILT IN TEST (BIT) FALSE ALARM                   |
| 692 | VIDEO FAULTY                                      |
| 693 | AUDIO FAULTY                                      |
| 695 | SYNC ABSENT OR INCORRECT                          |
| 698 | FAULTY CARD, TAPE, PROGRAM OR DISK                |
| 718 | IMPROPER RESPONSE TO MECHANICAL INPUT             |
| 721 | IMPROPER RESPONSE TO ELECTRICAL INPUT             |
| 816 | IMPEDANCE INCORRECT                               |
| 824 | GYRO PRECESSES                                    |
| 901 | INTERMITTENT                                      |
| 939 | UNABLE TO LOAD PROGRAM                            |
| 941 | NONPROGRAMMED HALT                                |
| 942 | ILLEGAL OPERATION OR ADDRESS                      |
| 943 | DATA ERROR  |
| 944 | UPDATE OR VERIFICATION OF PROGRAM/SOFTWARE LOAD   |
| 949 | COMPUTER MEMORY ERROR/DEFECT                      |
| 956 | COMPUTER EQUIPMENT MALFUNCTION                    |
| 957 | NO DISPLAY  |
| 959 | FAILS TO TRANSFER TO REDUNDANT EQUIPMENT          |
| 962 | LOW POWER (ELECTRICAL)                            |
| 964 | POOR SPECTRUM                                     |

# **TO 1H-139(M)A-06-1**

## **AVIONICS/ELECTRONICS/COMPUTER**

### **CODE DESCRIPTION**

---

|     |  |
|-----|--|
| 969 | CANNOT RESONATE INPUT CAVITY                 |
| 974 | DOES NOT TRACK TUNING CURVE                  |
| 982 | FROZEN TUNING MECHANISM                      |
| 987 | INPUT/OUTPUT PULSE DISTORTION                |
| 988 | LOSS OF VACUUM                               |
| 989 | LOW COOLANT FLOW RATE                        |
| 991 | FREQUENCY OUT OF BAND, UNSTABLE OR INCORRECT |

# HOW MALFUNCTION CODES NUMERICAL LISTING (PHYSICAL/MECHANICAL)

## NOTE

Technicians must use a How Malfunctioned Code (HMC) from the engine related codes when documenting the removal of engines or engine components that are AFI 21-104 reportable. For all other maintenance actions, on any type of equipment, there are no restrictions on the use of codes by category. If a code is appropriate for an observed malfunction, it may be used regardless of the category in which it is listed. Avionics shops may use engine codes. Engine shops may use avionics codes. Tire shops may use physical/mechanical, avionic, or engine codes, etc. Categories of codes were created primarily for ease in finding a specific code.

## WITH DEFECT

| CODE | DESCRIPTION   |
|------|---|
| 002  | SERVICING (MAY BE USED WITH WUC ITEMS)  |
| 006  | CONTACTS/CONNECTION DEFECTIVE   |
| 008  | NOISY/CHATTERING  |
| 020  | CUT, WORN, CHAFFED, FRAYED OR TORN  |
| 070  | BROKEN  |
| 105  | LOOSE, DAMAGED OR MISSING HARDWARE (NUTS, BOLTS, SCREWS, CLAMPS, SAFETYWIRE, ETC) |
| 111  | BURST OR RUPTURED   |
| 127  | ADJUSTMENT OR ALIGNMENT IMPROPER  |
| 135  | BINDING, STUCK OR JAMMED  |
| 167  | TENSION OR TORQUE INCORRECT   |
| 170  | CORRODED MILD/MODERATE  |
| 190  | CRACKED   |
| 298  | DOMESTIC OBJECT - NO DAMAGE   |

| CODE | DESCRIPTION   |
|------|---|
| 002  | SERVICING (MAY BE USED WITH WUC ITEMS)  |
| 006  | CONTACTS/CONNECTION DEFECTIVE   |
| 008  | NOISY/CHATTERING  |
| 020  | CUT, WORN, CHAFFED, FRAYED OR TORN  |
| 070  | BROKEN  |
| 105  | LOOSE, DAMAGED OR MISSING HARDWARE (NUTS, BOLTS, SCREWS, CLAMPS, SAFETYWIRE, ETC) |
| 111  | BURST OR RUPTURED   |
| 127  | ADJUSTMENT OR ALIGNMENT IMPROPER  |
| 135  | BINDING, STUCK OR JAMMED  |
| 167  | TENSION OR TORQUE INCORRECT   |
| 170  | CORRODED MILD/MODERATE  |
| 190  | CRACKED   |
| 298  | DOMESTIC OBJECT - NO DAMAGE   |

# TO 1H-139(M)A-06-1

## WITH DEFECT

| CODE | DESCRIPTION   |
|------|---|
| 299  | DOMESTIC OBJECT DAMAGE  |
| 300  | FOREIGN OBJECT - NO DAMAGE  |
| 301  | FOREIGN OBJECT DAMAGE (FOD)   |
| 381  | LEAKING INTERNAL OR EXTERNAL  |
| 525  | PRESSURE INCORRECT/FLUCTUATES   |
| 553  | DOES NOT MEET SPECIFICATIONS DRAWINGS OR OTHER CONFORMANCE REQUIREMENTS (USE WITH WHEN DISCOVERED CODE Y) |
| 585  | SHEARED   |
| 599  | TRAVEL OR EXTENSION INCORRECT   |
| 602  | FAILED OR DAMAGED DUE TO MALFUNCTION OF ASSOCIATED EQUIPMENT  |
| 622  | WET/CONDENSATION  |
| 632  | EXPENDED (THERMAL BATTERY, FIRE EXTINGUISHER, ETC)  |
| 651  | AIR IN SYSTEM   |
| 667  | CORRODED SEVERE   |
| 669  | POTTING MATERIAL MELTING (REVERSION PROCESS)  |
| 680  | FAILURE CAUSED BY MANUFACTURER DEFICIENCY   |
| 710  | BEARING FAILURE OR FAULTY   |
| 730  | LOOSE   |
| 750  | MISSING   |
| 780  | BENT, BUCKLED, COLLAPSED, DENTED, DISTORTED OR TWISTED  |
| 846  | DELAMINATED, SEPARATION OF LAMINATED LAYERS (COMPOSITE STRUCTURE)   |
| 865  | DETERIORATED (FOR PROTECTIVE COATING/SEALANT DEFECTIVE USE WITH ACTION TAKEN CODE Z)                      |
| 884  | LEAD BROKEN   |

X-002

**WITH DEFECT**

**CODE DESCRIPTION**

---

- 890 LIGHTNING STRIKE DAMAGE
- 900 BURNED OR OVERHEATED
- 932 DOES NOT ENGAGE, LOCK OR UNLOCK CORRECTLY
- 948 OPERATOR ERROR
- 972 DAMAGED PROBE



# HOW MALFUNCTION CODES NUMERIC LISTING (ENGINE RELATED)

## NOTE

Technicians must use a How Malfunctioned Code (HMC) from the engine related codes when documenting the removal of engines or engine components that are AFI 21-104 reportable. For all other maintenance actions, on any type of equipment, there are no restrictions on the use of codes by category. If a code is appropriate for an observed malfunction, it may be used regardless of the category in which it is listed. Avionics shops may use engine codes. Engine shops may use avionics codes. Tire shops may use physical/mechanical, avionic, or engine codes, etc. Categories of codes were created primarily for ease in finding a specific code.

## OBSERVED OR RECORDED OPERATIONAL CONDITIONS

| CODE | DESCRIPTION  |
|------|--|
| 069  | FLAMEOUT   |
| 177  | HIGH OR LOW FUEL CONSUMPTION                       |
| 191  | HIGH EGT   |
| 192  | OVERTEMPERATURE                                    |
| 193  | EXCESSIVE STALLS                                   |
| 194  | HIGH BREATHER PRESSURE                             |
| 195  | EXCEEDING QUALITY CHECK TEMPERATURE LIMIT          |
| 196  | EXCESSIVE OIL FROM BREATHER, OR HIGH SUMP PRESSURE |
| 197  | FUEL LEAKAGE                                       |
| 198  | CONTAMINATED FUEL                                  |
| 199  | HIGH OR LOW OIL CONSUMPTION                        |
| 200  | OIL LEAKAGE  |
| 201  | CONTAMINATED OIL                                   |
| 202  | LOW OIL PRESSURE                                   |

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## OBSERVED OR RECORDED OPERATIONAL CONDITIONS

| CODE | DESCRIPTION   |
|------|---|
| 203  | HIGH OIL PRESSURE   |
| 204  | SMOKE OR FUMES IN COCKPIT   |
| 207  | AUGMENTOR INDUCED STAGNATION  |
| 208  | AUGMENTOR NOZZLE MECHANISM DETERIORATION                                |
| 209  | INTERNAL NOISE ON SHUTDOWN/START  |
| 210  | SERVICING WITH IMPROPER GRADE OR TYPE OF FUEL OR OIL                    |
| 211  | CORRODED INTERNAL SURFACES  |
| 212  | CORRODED EXTERNAL SURFACES  |
| 223  | CONTROL SYSTEM COMPONENT MALFUNCTION                                    |
| 224  | BACKUP/EMERGENCY CONTROL SYSTEM FAILURE                                 |
| 225  | BLEED AIR MALFUNCTION   |
| 226  | ENGINE START TIME BEYOND LIMITS   |
| 227  | REAR COMPRESSOR VARIABLE VANE (RCVV) GEOMETRY<br>IMPROPER/AXIAL FLUTTER |
| 228  | COMPRESSOR INLET VARIABLE VANE (CIVV) GEOMETRY IMPROPER                 |
| 253  | MISFIRES  |
| 314  | INABILITY TO ACCELERATE, ALL POWER SETTINGS ABOVE IDLE                  |
| 315  | SURGES/FLUCTUATES   |
| 317  | HOT STARTS  |
| 334  | TEMPERATURE LIMITS EXCEEDED   |
| 372  | METAL IN SUMP/SCREEN OR ON MAGNETIC PLUG                                |
| 464  | OVERSPEED   |
| 475  | INABILITY TO START, GROUND OR AIR                                       |
| 513  | COMPRESSOR STALLS   |
| 537  | LOW POWER OR THRUST   |
| 561  | UNABLE TO ADJUST TO LIMITS  |

**OBSERVED OR RECORDED OPERATIONAL CONDITIONS****CODE DESCRIPTION**

- 
- 690 EXCESSIVE VIBRATION OR ROUGH OPERATION
  - 884 LEAD BROKEN
  - 916 JOINT OIL ANALYSIS PROGRAM (JOAP) REMOVAL

**IDENTIFIED COMPONENTS****CODE DESCRIPTION**

- 
- 136 DAMAGED/CRACKED FAN STATOR CASE
  - 137 DAMAGED/CRACKED FAN STATOR VANES
  - 138 FAN BLADE DAMAGE
  - 139 CRACKED OR WARPED INLET GUIDE
  - 140 FROZEN FAN
  - 141 COMPRESSOR CASE FAILURE OR EXCESSIVE AIR LEAKAGE
  - 142 COMPRESSOR DAMAGE DUE TO FAILURE OR SEIZURES
  - 143 DAMAGED/CRACKED COMPRESSOR CASE
  - 144 COMPRESSOR ROTOR CHANGE (OTHER THAN FOD)
  - 145 CRACKED DIFFUSER CASES
  - 146 COMBUSTION DAMAGE
  - 147 COMBUSTION CASE BURN OR HOT SPOT
  - 148 DAMAGED/CRACKED TURBINE FRAME/CASE (BURNED THROUGH)
  - 151 TURBINE WHEEL FAILURE
  - 152 TURBINE NOZZLE FAILURE
  - 153 TURBINE DAMAGE DUE TO MATERIAL FAILURE
  - 155 ENGINE TO A/C MOUNT FAILURE
  - 160 BEARING AND/OR SUPPORT FAILURE
  - 161 BEARING FAILURE (CAUSING ROTOR SHIFT SEIZURE)
  - 174 QEC DISCREPANCY

# **TO 1H-139(M)A-06-1**

## **IDENTIFIED COMPONENTS**

| <b>CODE</b> | <b>DESCRIPTION</b>  |
|-------------|---|
| 230         | DIRTY, CONTAMINATED OR SATURATED BY FOREIGN MATERIAL              |
| 277         | FUEL NOZZLE/OIL LINE COKING                                       |
| 279         | SPRAY PATTERN DEFECTIVE   |
| 410         | LACK OF/OR IMPROPER LUBRICATION                                   |
| 425         | PITTED, NICKED, CHIPPED, SCORED, SCRATCHED OR CRAZED              |
| 458         | OUT OF BALANCE  |
| 484         | BLADE SHINGLING   |
| 846         | DELAMINATED; SEPARATION OF LAMINATED LAYERS (COMPOSITE STRUCTURE) |

## **CONDITION MONITORING**

| <b>CODE</b> | <b>DESCRIPTION</b>   |
|-------------|--|
| 175         | ADVERSE EGT/TIT TREND  |
| 176         | ADVERSE RPM TREND  |
| 178         | VIBRATION TREND  |
| 179         | EXHAUST PRESSURE RATIO (EPR) TREND                                     |
| 180         | ADVERSE OIL CONSUMPTION TREND  |
| 181         | ADVERSE FUEL FLOW TREND  |
| 182         | PERFORMANCE TREND INDICATES COMPRESSOR SECTION DETERIORATION OR DAMAGE |
| 183         | PERFORMANCE TREND INDICATES COMBUSTION SECTION DETERIORATION OR DAMAGE |
| 184         | PERFORMANCE TREND INDICATES TURBINE SECTION DETERIORATION OR DAMAGE    |
| 185         | PERFORMANCE TREND INDICATES ACCESSORY SECTION DETERIORATION            |
| 186         | REMOVED FOR FURTHER TEST CELL DIAGNOSTIC CHECK                         |

**CONDITION MONITORING****CODE DESCRIPTION**

---

- 187 BORESCOPE TREND INDICATES COMPRESSOR SECTION DETERIORATION
- 188 BORESCOPE TREND INDICATES COMBUSTOR SECTION DETERIORATION
- 189 BORESCOPE TREND INDICATES TURBINE SECTION DETERIORATION

**CHANCE OCCURRENCE****CODE DESCRIPTION**

---

- 303 DAMAGE BY SEMI-SOLID FOREIGN OBJECTS (BIRDS)
- 476 DAMAGE BY SOLID FOREIGN OBJECTS (METAL, STONE)
- 477 DAMAGE BY SEMI-SOLID FOREIGN OBJECT (ICE)
- 478 DAMAGE BY SEMI-SOLID FOREIGN OBJECTS (RAGS, PLASTIC, RUBBER, ETC)
- 479 DAMAGE FROM SIMULATED COMBAT (AIR TO AIR/AIR TO GROUND)
- 480 DAMAGE BY AIRCRAFT ACCIDENT OR INCIDENT
- 481 EXPOSURE TO FIRE EXTINGUISHING AGENT
- 731 BATTLE DAMAGE

**MANAGERIAL DECISION****CODE DESCRIPTION**

---

- 086 IMPROPER HANDLING, SHIPPING OR MAINTENANCE
- 866 EXPIRATION OF MAXIMUM TIME (TO DIRECTED)
- 867 TRANSFER TIME LIMIT (TO 2-1-18)
- 868 REMOVED/ROLLED BACK FOR FAILED EXTERNAL ENGINE COMPONENT REINSTALLED IN SAME AIRCRAFT
- 870 REMOVAL FOR RESEARCH, TEST OR DIAGNOSTIC EVENT
- 872 REMOVAL DURING AIRCRAFT PROGRAMMED DEPOT MAINTENANCE

# **TO 1H-139(M)A-06-1**

## **MANAGERIAL DECISION**

| <b>CODE</b> | <b>DESCRIPTION</b>   |
|-------------|--|
| 874         | STORAGE DAMAGE OR DETERIORATION  |
| 875         | REMOVAL FOR OR REPLACEMENT AFTER (CANNIBALIZATION)                                       |
| 876         | NON-TECHNICAL ORDER DIRECTED REMOVAL/REMOVAL FOR RECONFIGURATION                         |
| 877         | TO IDENTIFIED COMPONENTS   |
| 878         | REMOVAL TO PERFORM SCHEDULED/SPECIAL INSPECTION (PE, HSI, ETC, - TO DIRECTED)            |
| 879         | EXPIRATION OF MAXIMUM CYCLES/SORTIES FOR ENGINES, MODULE OR COMPONENTS (TO DIRECTED)     |
| 880         | OPPORTUNISTIC MAINTENANCE REMOVAL (MODULES AND TRACKED COMPONENTS APPROACHING TO LIMITS) |
| 881         | REMOVAL TO PERFORM MINOR INSPECTION (BORESCOPE - TO DIRECTED)                            |

# SUPPORT GENERAL WORK UNIT CODES (EXCEPT 03000 AND 04000)

## NOTE

SUPPORT GENERAL CODES ARE FOR RECORDING PRODUCTION CREDIT OF REPETITIVE TASKS OF A GENERAL NATURE, AND SHALL NOT BE USED FOR RECORDING MALFUNCTIONS, REPAIR, NRTS, OR CONDEMNATION ACTIONS. THE MULTITUDE OF TASKS WHICH MUST BE ACCOMPLISHED PRECLUDE LISTING THEM ALL IN THE SUPPORT GENERAL TASK LISTS PROVIDED. THIS IS NOT INTENDED TO RESTRICT DOCUMENTATION OF TASKS. ALL SUPPORT GENERAL WORK MUST BE IDENTIFIED TO THE MOST APPROPRIATE CODE.

---

**CODE DESCRIPTION**

---

|              |  |
|--------------|--|
| <b>01000</b> | <b>GROUND HANDLING, SERVICING, AND RELATED TASKS</b>   |
|              | <b>GROUND HANDLING</b>   |
|              | EQUIPMENT OR REPOSITIONING   |
|              | INSTALLATION OF EQUIPMENT  |
|              | REMOVAL OF EQUIPMENT   |
|              | MISSION EQUIPMENT OPERATION OR SUPPORT WHEN NOT ASSOCIATED WITH SCHEDULED OR UNSCHEDULED MAINTENANCE           |
|              | <b>SERVICING AND RELATED TASKS</b>   |
|              | SCHEDULED POWER CHANGEOVER   |
|              | TROUBLESHOOTING END ITEMS OR FACILITIES (USE ONLY FOR END ITEMS OR FACILITIES THAT DO NOT HAVE A WUC ASSIGNED) |
|              | UNSCHEDULED POWER CHANGEOVER.  |
|              | POWER PRODUCTION SERVICE AND CHECKOUT  |
|              | ENVIRONMENTAL CONTROL  |
|              | REHABILITATION OF ANTENNA SYSTEMS  |
|              | UNSCHEDULED ANTENNA SYSTEM SERVICE   |

# **TO 1H-139(M)A-06-1**

## **CODE DESCRIPTION**

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CLEARING OF ANTENNA/TRANSMISSION RIGHT-OF-WAY

INSTALLATION OF NEW ANTENNA SYSTEM

RECEIVER OR TRANSMITTER FREQUENCY CHANGES

TAPE DEVELOPMENT, REPRODUCTION AND ANALYSIS

TELEPHONE NUMBER CHANGE

## **02000 REHABILITATION OF EQUIPMENT**

### **WASHING OR DEGREASING**

CLEANING AND TREATING OF EQUIPMENT TO PREVENT CORROSION

GROUND SNOW, FROST, AND ICE REMOVAL

CLEANING ANTENNA SYSTEMS, MOBILE FACILITIES AND FIXED FACILITIES

DECONTAMINATION

## **05000 PRESERVATION, DEPRESERVATION, AND STORAGE OF EQUIPMENT**

PRESERVATION, DEPRESERVATION, AND STORAGE OF EQUIPMENT

## **06000 WEAPON AND GROUND SAFETY**

ARMING AND DISARMING OF GUNS, ROCKETS, EXPLOSIVE SQUIBS, SEATS, CANOPIES, EXTERNAL TANKS/PODS/PYLON EJECTORS, ARMAMENT BAY DOORS, MISSILE LAUNCHERS, WING AND FUSELAGE CENTERLINE RACKS, BOMB BAY RELEASE MECHANISMS/CONTROLS, ETC. ALSO INCLUDES CONNECTING AND DISCONNECTING AIRCRAFT BATTERIES.

## **07000 PREPARATION AND MAINTENANCE OF RECORDS**

THIS CODE WILL BE USED TO RECORD ONLY THE DIRECT LABOR EXPENDED IN PREPARATION/MAINTENANCE OF STATUS AND HISTORICAL FORMS (THIS EXCLUDES INITIATION AND COMPLETION OF PRODUCTION DOCUMENTATION FORMS).

## **08000 SPECIAL PURPOSE**

## **09000 SHOP SUPPORT GENERAL CODE**

FABRICATE (INCLUDES FABRICATION OR LOCAL MANUFACTURE OF MISCELLANEOUS ITEMS). STENCILING/PAINTING (INCLUDES

# **TO 1H-139(M)A-06-1**

## **CODE DESCRIPTION**

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STENCILING, LETTERING, INSTALLING DECALS, INSTRUMENT RANGE MARKINGS, ETC., AND PAINTING FOR COSMETIC PURPOSE ONLY). DO NOT USE THIS CODE FOR TREATING CORROSION OR PAINTING OF PARTS/ASSEMBLIES/EQUIPMENT FOR CORROSION PREVENTION CONTROL.

TESTING AND SERVICING FIRE EXTINGUISHERS.



## SUPPORT GENERAL WORK UNIT CODES (03000)

| CODE  | DESCRIPTION                         |
|-------|-------------------------------------|
| 03000 | SCHEDULED INSPECTION OR MAINTENANCE |
| 03100 | PREFLIGHT INSPECTION                |
| 03200 | THRUFLIGHT                          |
| 03201 | POSTFLIGHT INSPECTION               |
| 03269 | 2000 LANDINGS                       |
| 03270 | 8350 LANDINGS                       |
| 03271 | AFTER LAST USE                      |
| 03272 | 6000 EXTERNAL LOAD CYCLES           |
| 03300 | HOURLY POST FLIGHT INSPECTION       |
| 03304 | 12 HOUR ENGINE CHECKS               |
| 03305 | 25 HOUR ENGINE <b>CHECKS</b>        |
| 03310 | 50 HOUR ENGINE <b>CHECKS</b>        |
| 03311 | 100 HOUR ENGINE <b>CHECKS</b>       |
| 03312 | 200 HOUR ENGINE <b>CHECKS</b>       |
| 03313 | 400 HOUR ENGINE <b>CHECKS</b>       |
| 03314 | 300 HOUR ENGINE <b>CHECKS</b>       |
| 03315 | 300 HOUR CHECKS                     |
| 03316 | 300 HOUR /1 YEAR CHECKS             |
| 03317 | 600 HOUR CHECKS                     |
| 03318 | 1200 HOUR CHECKS                    |
| 03320 | <b>1 MONTH CHECKS</b>               |
| 03337 | 18 MONTH/450 HOUR CHECKS            |
| 03338 | <b>1 YEAR/500 HOUR CHECKS</b>       |
| 03339 | <b>2 YEAR/600 HOUR CHECKS</b>       |

## TO 1H-139(M)A-06-1

### CODE DESCRIPTION

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- 03340 60 DAY INTERVAL  
03341 2 MONTH/50 HOUR CHECKS  
03342 2 YEAR/1200 HOUR CHECKS  
03343 3 YEAR/1500 HOUR CHECKS  
03360 120 DAY CHECKS  
03370 6 MONTH CHECKS  
03380 270 DAY INTERVAL  
03391 1 YEAR/600 HOUR CHECKS  
03392 1 YEAR/900 HOUR CHECKS  
03393 2 YEAR/1200 HOUR CHECKS  
03394 4 YEAR/2400 HOUR CHECKS  
03396 50 HOUR CHECKS  
03397 1800 HOUR CHECKS  
03398 2400 HOUR CHECKS  
03399 3000 HOUR CHECKS  
0339A 3600 HOUR CHECKS  
0339B 4800 HOUR CHECKS  
0339C 5000 HOUR CHECKS  
0339D 6000 HOUR CHECKS  
0339E 27400 LANDINGS  
03595 1 YEAR CHECKS  
03596 2 YEAR CHECKS  
03598 4 YEAR CHECKS  
03599 5 YEAR CHECKS  
0359A 8 YEAR CHECKS  
03700 STORAGE  
03760 PRE-USE/POST-USE INSPECTIONS (RESCUE HOIST)

**CODE DESCRIPTION**

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03761 25 HOUR CHECKS

03762 100 HOUR CHECKS

03763 150 HOUR CHECKS

03764 400 HOUR CHECKS

03765 450 HOUR CHECKS

03766 500 HOUR CHECKS

03767 900 HOUR CHECKS

03768 1250 HOUR CHECKS

03769 1300 HOUR CHECKS

03770 1500 HOUR CHECKS

03771 2500 HOUR CHECKS

03772 7000 LANDINGS CHECKS

03773 10000 HOUR CHECKS

03774 20000 HOUR CHECKS

**03775 3 YEAR CHECKS**

**03776 6 YEAR CHECKS**

03900 SCHEDULED DEPOT MAINTENANCE FOR TIME OR OPERATIONAL  
LIMITS (NO OTHER DEFECTS)

03999 SCHEDULED INSPECTIONS, **NOC**



## SUPPORT GENERAL WORK UNIT CODES (04000)

| CODE  | DESCRIPTION  |
|-------|--|
| 04000 | SPECIAL INSPECTIONS  |
| 04100 | SPECIAL MODIFICATION INSPECTION  |
| 04101 | FOREIGN OBJECT (FO) SEARCH   |
| 04112 | ACCEPTANCE INSPECTION  |
| 04113 | AFTER FIRE INSPECTION  |
| 04116 | AIRCRAFT ACCIDENT/INCIDENT CHECK   |
| 04117 | BATTERY CAPACITY/SPECIFIC GRAVITY CHECK  |
| 04118 | COMPASS SWING CHECK  |
| 04119 | OIL/FUEL TANK SUMPS DRAINED INSPECTION   |
| 0411A | CLIMATIZATION (INCLUDES PREPARATION FOR ARCTIC, DESERT, OR TROPICAL OPERATION) |
| 0411B | NONDESTRUCTIVE INSPECTION ACCOMPLISHED SEPARATELY FROM SCHEDULED INSPECTION    |
| 0411C | HYDRAULIC SYSTEM CONTAMINATION CHECK   |
| 0411D | OIL SAMPLING FOR SPECTROMETRIC ANALYSIS  |
| 0411H | FUEL COMPONENTS CONTAMINATION CHECK  |
| 0411J | OPERATIONALLY READY INSPECTION (ORI)   |
| 0411K | AIRCRAFT GROUND RECEPTACLE INSPECTION  |
| 04121 | HARD LANDING INSPECTION  |
| 04122 | LANDING GEAR RETRACTION CHECK  |
| 04123 | WHEEL/BRAKE INSPECTION   |
| 04124 | PITOT-STATIC PURGE AND/OR CHECK  |
| 0412A | EMERGENCY EGRESS SYSTEM CHECK  |
| 0412C | INTEGRATED ELECTRONICS SYSTEM CHECK  |
| 0412E | SEVERE TURBULENCE INSPECTION   |

## **TO 1H-139(M)A-06-1**

### **CODE DESCRIPTION**

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- 0412H REMOTE COMPASS CHECK
- 0412J AFT FUSELAGE SECTION INSPECTION
- 0412P INSPECTION, OVERWEIGHT LANDING
- 0412Q INSPECTION, LANDING GR/DR OVERSPEED
- 04131 ENGINE CHANGE INSPECTION (INCLUDES PREOIL)
- 04132 HOT START OR OVERSPEEDING INSPECTION
- 04136 ENGINE ANALYZER CHECK
- 04137 ENGINE CONDITIONING (SCHEDULED)
- 04138 MINOR ENGINE CONDITIONING (UNSCHEDULED)
- 04139 ENGINE TRIM CHECK
- 0413B ENGINE HOT SECTION INSPECTION
- 0413C ENGINE AIR INLET INSPECTION
- 0413J EXHAUST GAS TEMPERATURE (JET CAL) CALIBRATION
- 0413M BLEED AIR SYSTEM PRESSURE LOSS TEST CHECK
- 0413N ENGINE OIL SCREEN INSPECTION/OIL STRAINER INSPECTION
- 0413P ENGINE STALL/FLAMEOUT CHECK
- 04141 CORROSION CONTROL INSPECTIONS ACCOMPLISHED SEPARATELY FROM SCHEDULED INSPECTION
- 04142 ENGINE BAY INSPECTION – ENGINE REMOVED
- 04144 POST MAINTENANCE CHECK (PMC) OF FUEL GAGES
- 0414X HIGH WINDS INSPECTION
- 04150 WEIGHT AND BALANCE (INCLUDES WEIGHING)
- 04151 EMERGENCY EQUIPMENT (INCLUDES LIFERAFT, FIRST AID KITS, EMERGENCY RADIO, ETC.)
- 04152 INSPECTION OF SEAT BELTS AND ALL HARNESSSES
- 04160 ROTOR OVERSPEED INSPECTION
- 04161 POWERTRAIN OVER TORQUE INSPECTION (HELICOPTERS)

**CODE DESCRIPTION**

- 
- 04162 VIBRATION ANALYSIS (HELICOPTERS)
  - 04163 TRANSMISSION INTERVAL (OIL FILTER INSPECTION, HELICOPTERS)
  - 04180 CHECKS REQUIRING SPECIAL CHECKOUT EQUIPMENT
  - 0418A AIR DATA COMPUTER AND ASSOCIATED PITOT AND STATIC INSTRUMENTS LEAK CHECK
  - 04185 SQUIB CONTINUITY AND CORROSION CHECK
  - 04186 INSPECTION OF GUNS AND FEEDER MECHANISMS
  - 04187 QUANTITY INDICATING SYSTEM(S) CALIBRATION
  - 0418A STATIC INSTRUMENTS LEAK CHECK
  - 0418B OVERHEAT AND FIRE WARNING SYSTEM INSPECTION
  - 04190 SUDDEN STOPPAGE INSPECTION
  - 04191 LIGHTNING STRIKES
  - 04192 EXCEEDING MAXIMUM ALL UP WEIGHT
  - 04193 EXCEEDING MAXIMUM FORWARD SPEED
  - 04194 EXCEEDING MAXIMUM SIDEWAY SPEED
  - 04195 EXCEEDING MAXIMUM RATE OF TURN IN FLIGHT
  - 04196 EXCEEDING CG ENVELOPE LIMITS
  - 04197 MAIN ROTOR BLADE STRIKE
  - 04198 TAIL ROTOR BLADE STRIKE
  - 0419A ENGINE OVERSPEED
  - 0419B EXPOSURE TO EXTREME WEATHER CONDITIONS
  - 0419D OEI POWER RATING CONDITION
  - 0419E EXCEEDING MAXIMUM SPEED LIMITS
  - 0419F **IN FLIGHT SINGLE MGB LUBRICATING PUMP FAILURE**
  - 0419G IN FLIGHT MGB LUBRICATING OIL OVERHEATING
  - 0419H BAGGAGE COMPARTMENT OVERLOAD
  - 0419J DUST DEVIL ATMOSPHERIC EVENT

## TO 1H-139(M)A-06-1

### CODE DESCRIPTION

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- 0419K EXCESS "G"
- 04199 SPECIAL INSPECTION, **NOC**
- 04210 FUNCTIONAL CHECK FLIGHT
- 04211 REMOVE FROM EXTENDED STORAGE
- 04212 NEW OR NEWLY OVERHAULDED ENGINE POWER
- 04213 FUEL CONTROL UNIT REPLACED OR REMOVED ANF REINSTALLED
- 04216 MAJOR COMPONENTS OF THE FLIGHT CONTROL SYSTEM  
SYSTEM ARE ADJUSTED, REPLACED, REMOVED OR REINSTALLED  
AND ABSOLUTE AIRWORTHINESS CANNOT BE VERIFIED BY  
MAINTENANCE OPERATIONAL CHECKS
- 04217 MAJOR STRUCTURAL MODIFICATIONS AND/OR REPAIRS
- 04219 FUNCTIONAL CHECK FLIGHTS PERFORMED AT THE PREROGATIVE  
OF THE MAINTENANCE OFFICER
- 04310 RECEIVING INSPECTION
- 04311 UNCRATING
- 04313 STRAY VOLTAGE CHECK
- 04314 BLOWN FUSE/SQUIB OR PARAMETER ACTIVATED
- 04315 PURGING
- 04316 ASSEMBLY
- 04317 DISASSEMBLY
- 04320 HANGFIRE
- 04321 MISFIRE
- 04324 MOISTURE
- 04325 DESICCANT CONTAINER
- 04326 DUST COVER PLUG
- 04330 EXTREME TEMPERATURE
- 04332 500 PICKUPS WITH **RESCUE HOIST**
- 04340 LOAD/UNLOAD

**CODE DESCRIPTION**

- 
- 04342 ABORT
  - 04347 INCIDENT/ACCIDENT
  - 04348 WHENEVER HYDRAULIC OR ELECTRICAL CONNECTIONS ARE DISCONNECTED
  - 04354 COWLING IS REMOVED OR INSTALLED
  - 04358 EVIDENCE OF TAMPERING
  - 04359 WHENEVER RADIOACTIVE ATMOSPHERE HAS BEEN ENCOUNTERED
  - 04361 WHEN GUIDANCE UNIT IS EXPOSED TO SUNLIGHT
  - 04365 PHYSICAL SHOCK
  - 04371 WHENEVER ENGINE EXHAUST GAS TEMPERATURE EXCEEDS LIMITS
  - 04372 PRIOR TO THE INSTALLATION OF A NEW COMPONENT
  - 04373 REPLACE ELT BATTERY AFTER IT IS USED IN AN EMERGENCY, INADVERTANT ACTIVATION OF UNKNOW DURATION, OR KNOW TRANSMISSION EXCEEDS 1 HOUR
  - 04400 **DROPPAGE INSPECTIONS**
  - 04577 DYNAMIC RESPONSE TEST
  - 04578 COMBINED SYSTEMS TEST
  - 04610 NONDESTRUCTIVE TESTING (ALL TYPES)
  - 04620 ANALYSIS OF OIL SAMPLES
  - 04660 PROGRAM, RE-PROGRAM, LOAD, RE-LOAD, KEYING, RE-KEYING, OF SOFTWARE OR KEYS.
  - 04710 DIGITAL FLIGHT DATA RECORDER (DFDR) DOWNLOADS
  - 04999 SPECIAL INSPECTIONS, **NOC**
  - 04MD4 MODE 4 TRANSPONDER FUNCTIONAL CHECK



# STANDARD AIRCRAFT SYSTEM CODES

## 1 Standard system codes

Standard system codes are assigned to selected radar and computer equipment to enable technicians to easily identify the major systems (transmitting system, receiving system, central processing system, etc.) within the end item. They are identified by the first two characters of the work unit code. Standard system codes are as follows:

### STANDARD AIRCRAFT SYSTEM CODES

|    |  |
|----|--|
| 11 | Airframe                                     |
| 12 | Cockpit and fuselage compartments            |
| 13 | Landing gear                                 |
| 14 | Flight control                               |
| 15 | Aircraft rotor                               |
| 22 | Turboshaft engine                            |
| 26 | Rotor drive                                  |
| 39 | Ice and rain protection                      |
| 41 | Environmental                                |
| 42 | Electrical power                             |
| 44 | Lighting                                     |
| 45 | Hydraulic and pneumatic power                |
| 46 | Fuel   |
| 48 | Indicating/Recording                         |
| 49 | Miscellaneous utilities                      |
| 51 | Instruments                                  |
| 52 | Autoflight                                   |
| 55 | Malfunction analysis and recording equipment |
| 62 | VHF communication                            |
| 63 | UHF communication                            |

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- 64            Intercommunication system
- 65            Identify Friend or Foe (IFF) system
- 69            Miscellaneous communications
- 71            Radio navigation
- 72            Radar navigation
- 75            Weapons
- 76            Electronic Countermeasures (ECM)
- 77            Reconnaissance/Surveillance
- 82            Computer and data display
- 91            Emergency equipment
- 97            Aircraft explosive devices and component items

**AIRFRAME**11000 - *Airframe*WORK  
UNIT  
CODE

---

|          |  |
|----------|--|
| 11 000   | <b>AIRFRAME</b>                        |
| 11 A00   | <b>COCKPIT SECTION</b>                 |
| 11 AA0   | <b>SKINS</b>                           |
| 11 AB0   | <b>FRAMES</b>                          |
| 11 AC0   | <b>NOSE RADOME DOOR</b>                |
| 11 ACA   | ADHESIVE STRIP                         |
| 11 ACB   | NOSE DOOR RESTRAINT CABLE              |
| 11 ACC   | BRACE LEVER                            |
| 11 AD0   | <b>LEFT COCKPIT DOOR</b>               |
| 11 ADA   | LATCHING MECHANISM                     |
| 11 ADB   | INTERNAL HANDLE                        |
| 11 ADC   | EXTERNAL HANDLE                        |
| 11 ADD   | LOCK                                   |
| 11 ADE   | DOOR ACTUATOR                          |
| 11 ADF   | TOP WINDOW                             |
| 11 ADG   | BOTTOM WINDOW                          |
| 11 ADH * | TOP WINDOW SEAL <b>(TCI)</b>           |
| 11 ADJ * | TOP WINDOW SEAL FILLER <b>(TCI)</b>    |
| 11 ADK * | BOTTOM WINDOW SEAL <b>(TCI)</b>        |
| 11 ADL * | BOTTOM WINDOW SEAL FILLER <b>(TCI)</b> |
| 11 AE0   | <b>RIGHT COCKPIT DOOR</b>              |
| 11 AEA   | LATCHING MECHANISM                     |
| 11 AEB   | INTERNAL HANDLE                        |

# **TO 1H-139(M)A-06-1**

**WORK  
UNIT  
CODE**

---

## **11 000 AIRFRAME**

|          |  |
|----------|--|
| 11 AEC   | EXTERNAL HANDLE                        |
| 11 AED   | LOCK                                   |
| 11 AEE   | DOOR ACTUATOR                          |
| 11 AEF   | TOP WINDOW                             |
| 11 AEG   | BOTTOM WINDOW                          |
| 11 AEH * | TOP WINDOW SEAL <b>(TCI)</b>           |
| 11 AEJ * | TOP WINDOW SEAL FILLER <b>(TCI)</b>    |
| 11 AEK * | BOTTOM WINDOW SEAL <b>(TCI)</b>        |
| 11 AEL * | BOTTOM WINDOW SEAL FILLER <b>(TCI)</b> |

## **11 AF0 CENTER CONSOLE**

## **11 AG0 INSTRUMENT PANEL**

|        |                            |
|--------|----------------------------|
| 11 AGA | GLARESHIELD                |
| 11 AGB | LEFT SLIDING GLARE SHIELD  |
| 11 AGC | RIGHT SLIDING GLARE SHIELD |
| 11 AGD | TOP COVER                  |
| 11 AGE | VIBRATION DAMPNER          |
| 11 AGF | LEFT VIBRATION DAMPNER     |
| 11 AGG | RIGHT VIBRATION DAMPNER    |
| 11 AGH | ROD END                    |

## **11 AH0 OVERHEAD PANEL**

## **11 AJ0 WINDSHIELD**

|        |                  |
|--------|------------------|
| 11 AJA | LEFT WINDSHIELD  |
| 11 AJB | RIGHT WINDSHIELD |
| 11 AK0 | FOOTSTEP         |

**WORK  
UNIT  
CODE****11 000 AIRFRAME**

11 AKA            LEFT COCKPIT FOOTSTEP  
11 AKB            RIGHT COCKPIT FOOTSTEP

**11 AL0 NOSE WINDOW**

11 ALA            LEFT NOSE WINDOW  
11 ALB            RIGHT NOSE WINDOW

**11 AM0 ROOF WINDOW**

11 AMA            LEFT ROOF WINDOW  
11 AMB            RIGHT ROOF WINDOW

**11 AN0 COCKPIT FOOTBOARD**

11 ANA            LEFT FOOTBOARD  
11 ANB            RIGHT FOOTBOARD

**11 A99 NOC****11 B00 CABIN SECTION****11 BA0 SKINS****11 BB0 FRAMES**

11 BBA \*        LEFT STA 3900 DOOR FRAME  
11 BBB \*        RIGHT STA 3900 DOOR FRAME

**11 BC0 LEFT CABIN DOOR**

11 BCA            CABIN DOOR PANEL ASSEMBLY  
11 BCB            UPPER FWD HINGE TROLLEY ASSY  
11 BCC            UPPER AFT HINGE TROLLEY ASSY  
11 BCD            LOWER FWD HINGE TROLLEY ASSY  
11 BCE            LOWER AFT HINGE TROLLEY ASSY  
11 BCF            CENTRAL MECHANISM ASSY

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

---

## 11 000 AIRFRAME

|               |  |
|---------------|--|
| 11 BCG        | LOWER MECHANISM ASSY                         |
| 11 BCH        | ROD ASSY                                     |
| 11 BCJ        | INTERNAL HANDLE ASSY                         |
| 11 BCK        | EXTERNAL HANDLE ASSY                         |
| 11 BCL        | DOOR LOCKING MECHANISM                       |
| 11 BCM        | CABIN DOOR RELEASE BUTTON                    |
| 11 BCN        | CABIN DOOR LOCKING CABLE                     |
| 11 BCP        | NONMETALLIC CHANNEL                          |
| 11 BCQ        | PASSENGER DOOR TRANSPARENT                   |
| 11 BCR *      | PASSENGER DOOR TRANSPARENT SEAL (TCI)        |
| 11 BCS *      | PASSENGER DOOR TRANSPARENT SEAL FILLER (TCI) |
| 11 BCT        | STRAP ASSEMBLY                               |
| <b>11 BD0</b> | <b>RIGHT CABIN DOOR</b>                      |
| 11 BDA        | CABIN DOOR PANEL ASSEMBLY                    |
| 11 BDB        | UPPER FWD HINGE TROLLEY ASSY                 |
| 11 BDC        | UPPER AFT HINGE TROLLEY ASSY                 |
| 11 BDD        | LOWER FWD HINGE TROLLEY ASSY                 |
| 11 BDE        | LOWER AFT HINGE TROLLEY ASSY                 |
| 11 BDF        | CENTRAL MECHANISM ASSY                       |
| 11 BDG        | LOWER MECHANISM ASSY                         |
| 11 BDH        | ROD ASSY                                     |
| 11 BDJ        | INTERNAL HANDLE ASSY                         |
| 11 BDK        | EXTERNAL HANDLE ASSY                         |
| 11 BDL        | DOOR LOCKING MECHANISM                       |

**WORK  
UNIT  
CODE****11 000 AIRFRAME**

|               |  |
|---------------|--|
| 11 BDM        | CABIN DOOR RELEASE BUTTON                    |
| 11 BDN        | CABIN DOOR LOCKING CABLE                     |
| 11 BDP        | NONMETALLIC CHANNEL                          |
| 11 BDQ        | PASSENGER DOOR TRANSPARENT                   |
| 11 BDR *      | PASSENGER DOOR TRANSPARENT SEAL (TCI)        |
| 11 BDS *      | PASSENGER DOOR TRANSPARENT SEAL FILLER (TCI) |
| 11 BDT        | STRAP ASSEMBLY                               |
| <b>11 BE0</b> | <b>ACCESS PANEL</b>                          |
| <b>11 BF0</b> | <b>CABIN FIXED FOOTSTEP</b>                  |
| 11 BFA        | LEFT CABIN FIXED FOOTSTEP                    |
| 11 BFB        | RIGHT CABIN FIXED FOOTSTEP                   |
| <b>11 BG0</b> | <b>LEFT STEP BAR PROTECTION</b>              |
| 11 BGA        | FORWARD COVER                                |
| 11 BGB        | AFT COVER                                    |
| 11 BGC        | CENTRAL COVER                                |
| 11 BGD        | FORWARD PROTECTION STRIP                     |
| 11 BGE        | PROTECTION STRIP                             |
| <b>11 BH0</b> | <b>RIGHT STEP BAR PROTECTION</b>             |
| 11 BHA        | FORWARD COVER                                |
| 11 BHB        | AFT COVER                                    |
| 11 BHC        | CENTRAL COVER                                |
| 11 BHD        | FORWARD PROTECTION STRIP                     |
| 11 BHE        | PROTECTION STRIP                             |
| <b>11 BJ0</b> | <b>LEFT SLIDING WINDOW</b>                   |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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## 11 000 AIRFRAME

11 BJA HANDLE  
11 BJB BEAM  
11 BJC WINDOW TOP RETAINER  
11 BJD WINDOW FRAME GROUP  
11 BJE WINDOW

## 11 BK0 RIGHT SLIDING WINDOW

11 BKA HANDLE  
11 BKB BEAM  
11 BKC WINDOW TOP RETAINER  
11 BKD WINDOW FRAME GROUP  
11 BKE WINDOW

## 11 BL0 CABIN FLOORS

11 BLA FORWARD FLOOR PANEL ASSEMBLY  
11 BLB CENTER FLOOR PANEL ASSEMBLY  
11 BLC AFT FLOOR PANEL ASSEMBLY

## 11 B99 NOC

11 C00 \* AFT CABIN (REAR FUSELAGE ASSY) (TCI)

## 11 CA0 SKINS

## 11 CB0 FRAMES

11 CBA LEFT STA 5700 DOOR FRAME  
11 CBB RIGHT STA 5700 DOOR FRAME

## 11 CC0 LEFT BAGGAGE COMPARTMENT DOOR

11 CCA DOOR GAS SPRING  
11 CCB GAS SPRING FITTING

WORK  
UNIT  
CODE

---

**11 000 AIRFRAME**

11 CCC FORWARD HINGE

11 CCD AFT HINGE

11 CCE DOOR SEAL

**11 CD0 RIGHT BAGGAGE COMPARTMENT DOOR**

11 CDA DOOR GAS SPRING

11 CDB GAS SPRING FITTING

11 CDC FORWARD HINGE

11 CDD AFT HINGE

11 CDE DOOR SEAL

**11 CE0 ACCESS PANELS**

**11 CF0 TIE DOWN RINGS**

**11 CG0 LEFT MAINTENANCE STEP**

11 CGA STEP

11 CGB MAINTENANCE STEP RESTRAINT CABLE

**11 CH0 RIGHT MAINTENANCE STEP**

11 CHA STEP

11 CHB MAINTENANCE STEP RESTRAINT CABLE

**11 CJ0 LEFT TOP MAINTENANCE STEP**

**11 CK0 RIGHT TOP MAINTENANCE STEP**

**11 CL0 BAGGAGE COMPARTMENT ACCESS PANELS**

**11 CM0 BAGGAGE COMPARTMENT FLOOR**

11 CMA MIDDLE FLOOR CLOSURE PANEL

11 CMB MIDDLE FLOOR PANEL ASSEMBLY

**11 C99 NOC**

# TO 1H-139(M)A-06-1

## WORK UNIT CODE

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|        |                                      |
|--------|--------------------------------------|
| 11 000 | AIRFRAME                             |
| 11 D00 | * TAIL BOOM SECTION (TCI)            |
| 11 DA0 | SKINS                                |
| 11 DB0 | FRAMES                               |
| 11 DC0 | * HORIZONTAL STABILIZER              |
| 11 DCA | * TAIL PLANE                         |
| 11 DCB | LH WINGLET ASSY                      |
| 11 DCC | RH WINGLET ASSY                      |
| 11 DCD | * LEFT ROD (TCI)                     |
| 11 DCE | ROD END (LEFT ROD)                   |
| 11 DCF | * RIGHT ROD (TCI)                    |
| 11 DCG | ROD END (RIGHT ROD)                  |
| 11 DCH | * TAIL PLANE BOTTOM FITTING (TCI)    |
| 11 DCJ | TAIL PLANE BOTTOM FITTING BUSHINGS   |
| 11 DCK | * TAIL PLANE LEFT TOP FITTING (TCI)  |
| 11 DCL | TAIL PLANE LEFT TOP FITTING BUSHINGS |
| 11 DCM | * TAIL PLANE RIGHT TOP FITTING (TCI) |
| 11 DCN | TAIL PLANE RIGHT TOP FITTING BUSHING |
| 11 D99 | NOC                                  |
| 11 E00 | TAIL ROTOR PYLON SECTION             |
| 11 EA0 | SKINS                                |
| 11 EB0 | FRAMES                               |
| 11 EC0 | TAIL GEARBOX FAIRING                 |
| 11 ECA | FWD TAIL GEARBOX FAIRING ASSEMBLY    |
| 11 ECB | AFT TAIL GEARBOX FAIRING ASSEMBLY    |

**WORK  
UNIT  
CODE**

---

**11 000 AIRFRAME**

**11 ECC FAIRING SUPPORT ASSY**

**11 ED0 \* TAIL GEARBOX FITTING (TCI)**

**11 E99 NOC**

**11 F00 MAIN ROTOR PYLON SECTION**

**11 FA0 SKINS**

**11 FB0 FRAMES**

**11 F99 NOC**



# COCKPIT AND FUSELAGE COMPARTMENTS

12000 - Cockpit and Fuselage Compartments

WORK  
UNIT  
CODE

---

|          |                                   |
|----------|-----------------------------------|
| 12 000   | COCKPIT AND FUSELAGE COMPARTMENTS |
| 12 A00   | NOSE COMPARTMENT                  |
| 12 AA0   | MODULAR RADIO CABINET             |
| 12 AAA * | NUMBER 1 MODULAR RADIO CABINET    |
| 12 AAB   | NUMBER 1 REAR FAN COVER           |
| 12 AAC * | NUMBER 2 MODULAR RADIO CABINET    |
| 12 AAD   | NUMBER 2 REAR FAN COVER           |
| 12 A98   | WIRING                            |
| 12 A99   | NOC                               |
| 12 B00   | COCKPIT                           |
| 12 BA0 * | RIGHT COCKPIT SEAT                |
| 12 BAA * | RESTRAINT SYSTEM                  |
| 12 BAB   | HEADREST                          |
| 12 BAC   | BACK CUSHION                      |
| 12 BAD   | PAN CUSHION                       |
| 12 BAE   | SEAT FRAME                        |
| 12 BB0 * | LEFT COCKPIT SEAT                 |
| 12 BBA * | RESTRAINT SYSTEM                  |
| 12 BBB   | HEADREST                          |
| 12 BBC   | BACK CUSHION                      |
| 12 BBD   | PAN CUSHION                       |
| 12 BBE   | SEAT FRAME                        |

# **TO 1H-139(M)A-06-1**

## **WORK UNIT CODE**

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**12 000 COCKPIT AND FUSELAGE COMPARTMENTS**

**12 BC0 WINDOW SHADE**

12 BCA LEFT ROOF WINDOW SHADE

12 BCB RIGHT ROOF WINDOW SHADE

12 BCC LEFT HOOK

12 BCD RIGHT HOOK

**12 BD0 COCKPIT LINING**

12 BDA LEFT HANDLE

12 BDB RIGHT HANDLE

12 BDC LEFT LINING INSTALLATION

12 BDD RIGHT LINING INSTALLATION

12 BDE UPPER COVER STA3120,LH

12 BDF LOWER COVER STA3120,LH

12 BDG COVER RH

12 BDH COVER STA 3120 UPPER RH

**12 BE0 FLASHLIGHT POCKET**

**12 BF0 FLIGHT MANUAL CASE**

**12 B99 NOC**

**12 C00 CABIN**

**12 CA0 CABIN DOOR LINING INSTALLATION**

12 CAA COVER RH FOR PASS DOOR HANDL

12 CAB COVER LH FOR PASS DOOR HANDL

12 CAC CABIN DOOR LINER ASSY L

12 CAD CABIN DOOR LINER ASSY R

12 CAE COVER LH FOR LWR HANDLE RECE

**12-002**

**WORK  
UNIT  
CODE****12 000 COCKPIT AND FUSELAGE COMPARTMENTS**

12 CAF COVER RH FOR LWR HANDLE RECE  
**12 CB0 \*** **RESCUE HOIST STRUCTURE (TCI)**  
12 CBA RESCUE HOIST FORWARD COWLING  
12 CBB RESCUE HOIST AFT COWLING  
12 CBC LIGHT SUPPORT  
12 CBD RESCUE HOIST CENTER COWLING  
12 CBE RESCUE HOIST FORWARD FRAME  
12 CBF RESCUE HOIST AFT FRAME  
12 CBG RESCUE HOIST MOUNT  
12 CBH COVER

**12 CC0 TROOP SEAT INSTALLATION**

12 CCA TROOP SEAT  
12 CCB SEAT TRACK STA3973  
12 CCC SEAT TRACK STA3335  
12 CCD SEAT TRACK CENTRAL  
12 CCE SEAT TRACK

**12 CD0 SOFT LINERS**

12 CDA COVER AV900  
12 CDB COVER CONTROL PANEL HOIST  
12 CDC COVER DIMMING  
12 CDD COVER POLYCOM AND AV900 COMB  
12 CDE SOFTLINER STA5700 LOWER PANEL

**12 CE0 DOORSTEP FOR BALLISTIC PROTECTION**

12 CEA DOORSTEP FWD LH ASSY

# **TO 1H-139(M)A-06-1**

**WORK  
UNIT  
CODE**

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## **12 000 COCKPIT AND FUSELAGE COMPARTMENTS**

12 CEB DOORSTEP FWD RH ASSY

12 CEC DOORSTEP AFT LH ASSY

12 CED DOORSTEP AFT RH ASSY

## **12 CF0 HOIST PENDANT SUPPORT**

12 CFA BRACKET

## **12 C99 NOC**

## **12 D00 \* AFT CABIN SECTION**

### **12 DA0 AFT CABIN LINING**

12 DAA BAGGAGE LINER ASSY FWD HORIZ

12 DAB BAGGAGE LINER ASSY FWD RH

12 DAC AFT UPPER LINER ASSY

12 DAD AFT LOWER LINER ASSY

12 DAE LEFT LOWER LINER ASSY

12 DAF RIGHT LOWER LINER ASSY

12 DAG LEFT UP REAR LINER ASSY

12 DAH RIGHT UP REAR LINER ASSY

12 DAJ LEFT UPPER CENTRAL LINER

12 DAK RIGHT UPPER CENTRAL LINER

12 DAL MICROSWITCH COVER LH

12 DAM MICROSWITCH COVER RH

## **12 DB0 CARGO RESTRAINT NET**

12 DBA \* NET ASSEMBLY **(TCI)**

12 DBB STOWAGE NET

12 DBC \* VERTICAL NET **(TCI)**

**12-004**

**WORK  
UNIT  
CODE**

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|               |  |
|---------------|--|
| <b>12 000</b> | <b>COCKPIT AND FUSELAGE COMPARTMENTS</b> |
| <b>12 DC0</b> | <b>FUEL TUNNEL PANELS</b>                |
| 12 DCA        | LEFT VERTICAL PANEL ASSY                 |
| 12 DCB        | RIGHT VERTICAL PANEL ASSY                |
| 12 DCC        | LEFT PANEL ASSY                          |
| 12 DCD        | RIGHT PANEL ASSY                         |
| 12 DCE        | FORWARD CEILING CLOSURE PANEL ASSY       |
| 12 DCF        | AFT CEILING CLOSURE PANEL ASSY           |
| <b>12 DD0</b> | <b>BOX HANDLING SYSTEM</b>               |
| 12 DDA        | PROTECTION ANGLE ASSY LH                 |
| 12 DDB        | PROTECTION ANGLE ASSY RH                 |
| 12 DDC        | RWD ANGLE ASSY                           |
| 12 DDD        | BOX HANDLING REINFORCEMENT ASSY          |
| 12 DDE        | BOX HANDLING ANGLE ASSY                  |
| 12 DDF        | BOX HANDLING PANEL ASSY                  |
| 12 DDG        | FWD ANGLE ASSY                           |
| 12 DDH        | LANYARD SECURITY                         |
| 12 DDJ        | PIN,QUICK RELEASE                        |
| <b>12 D99</b> | <b>NOC</b>                               |
| <b>12 E00</b> | <b>MAIN ROTOR PYLON SECTION</b>          |
| <b>12 EA0</b> | <b>NUMBER 1 ENGINE ACCESS DOOR</b>       |
| 12 EAA        | SCREEN                                   |
| 12 EAB        | FWD HINGE ASSY                           |
| 12 EAC        | AFT HINGE ASSY                           |
| 12 EAD        | NUMBER 1 ENGINE ACCESS DOOR SUPPORT ARM  |

# **TO 1H-139(M)A-06-1**

## **WORK UNIT CODE**

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### **12 000 COCKPIT AND FUSELAGE COMPARTMENTS**

12 EAE LATCH ASSY

12 EAF SCOOP ASSY

### **12 EB0 NUMBER 2 ENGINE ACCESS DOOR**

12 EBA SCREEN

12 EBB FWD HINGE ASSY

12 EBC AFT HINGE ASSY

12 EBD NUMBER 2 ENGINE ACCESS DOOR SUPPORT ARM

12 EBE LATCH ASSY

12 EBF SCOOP ASSY

### **12 EC0 TOP FORWARD COWL**

12 ECA HINGE SHIM (TOP FORWARD COWL)

12 ECB LEFT HAND FORWARD HINGE ASSY

12 ECC LEFT HAND AFT HINGE ASSY

12 ECD RIGHT HAND FORWARD HINGE ASSY

12 ECE RIGHT HAND AFT HINGE ASSY

### **12 ED0 LEFT HAND EXHAUST COWLING**

### **12 EE0 RIGHT HAND EXHAUST COWLING**

### **12 EF0 LIPS FWD COWLING**

12 EFA MESH ASSY

12 EFB LEFT HAND MESH ASSY

12 EFC FORWARD MESH ASSY

12 EFD ROLLERS

12 EFE LATCH ASSEMBLY

12 EFF LATCH SUPPORT

WORK  
UNIT  
CODE

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|               |  |
|---------------|--|
| <b>12 000</b> | <b>COCKPIT AND FUSELAGE COMPARTMENTS</b> |
| 12 EFG        | REAR SUPPORT                             |
| 12 EFH        | FRONT SUPPORT                            |
| <b>12 EG0</b> | <b>CENTRAL EXHAUST COWLING</b>           |
| <b>12 EH0</b> | <b>DC GENERATOR DUCTING</b>              |
| 12 EHA        | LEFT STARTER GENERATOR AIR INLET DUCT    |
| 12 EHB        | RIGHT STARTER GENERATOR AIR INLET DUCT   |
| 12 EHC        | LEFT STARTER GENERATOR AIR OUTLET DUCT   |
| 12 EHD        | RIGHT STARTER GENERATOR AIR OUTLET DUCT  |
| <b>12 EJ0</b> | <b>AC GENERATOR DUCTING</b>              |
| 12 EJA        | AIR INLET DUCT ADAPTER                   |
| 12 EJB        | AIR INLET DUCT                           |
| 12 EJC        | AIR INLET DUCT FLANGE                    |
| 12 EJD        | AIR EXHAUST DUCT FLANGE                  |
| 12 EJE        | AIR EXHAUST DUCT                         |
| <b>12 EK0</b> | <b>OIL COOLER DUCTING</b>                |
| 12 EKA        | OIL COOLER DUCT ASSY                     |
| <b>12 E99</b> | <b>NOC</b>                               |



# LANDING GEAR

13000 - *Landing gear*

WORK  
UNIT  
CODE

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|        |   |
|--------|---|
| 13 000 | LANDING GEAR  |
| 13 A00 | * LEFT MAIN LANDING GEAR (TCI)                        |
| 13 AA0 | * SHOCK ABSORBER ASSEMBLY                             |
| 13 AAA | * LH SHOCK ABSORBER                                   |
| 13 AAB | * SHORTENING ACTUATOR                                 |
| 13 AB0 | * TRAILING ARM  |
| 13 AC0 | TRUNNION  |
| 13 AD0 | MOORING LUG   |
| 13 AE0 | VALVE BLOCK ASSEMBLY                                  |
| 13 AF0 | TARGET PLATE  |
| 13 AG0 | * WHEEL   |
| 13 AGA | SEAL  |
| 13 AGB | BEARING   |
| 13 AGC | BEARING CUP   |
| 13 AH0 | TIRE  |
| 13 AJ0 | * <b>MAIN LANDING GEAR LH SEGMENT (SPONSON) (TCI)</b> |
| 13 AJA | * MAIN LANDING GEAR FORWARD LEFT BRACKET              |
| 13 AJB | * MAIN LANDING GEAR AFT LEFT BRACKET                  |
| 13 AK0 | MICROSWITCH (WOW SWITCH)                              |
| 13 A99 | NOC   |
| 13 B00 | * RIGHT MAIN LANDING GEAR (TCI)                       |
| 13 BA0 | * SHOCK ABSORBER ASSEMBLY                             |
| 13 BAA | * RH SHOCK ABSORBER                                   |

# **TO 1H-139(M)A-06-1**

## **WORK UNIT CODE**

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|               |   |
|---------------|---|
| <b>13 000</b> | <b>LANDING GEAR</b>                                   |
| 13 BAB        | * SHORTENING ACTUATOR                                 |
| <b>13 BB0</b> | <b>* TRAILING ARM</b>                                 |
| <b>13 BC0</b> | <b>TRUNNION</b>                                       |
| <b>13 BD0</b> | <b>MOORING LUG</b>                                    |
| <b>13 BE0</b> | <b>VALVE BLOCK ASSEMBLY</b>                           |
| <b>13 BF0</b> | <b>TARGET PLATE</b>                                   |
| <b>13 BG0</b> | <b>*</b> WHEEL  |
| 13 BGA        | SEAL  |
| 13 BGB        | BEARING   |
| 13 BGC        | BEARING CUP   |
| <b>13 BH0</b> | <b>TIRE</b>   |
| <b>13 BJ0</b> | <b>*</b> MAIN LANDING GEAR RH SEGMENT (SPONSON) (TCI) |
| 13 BJA        | * MAIN LANDING GEAR FORWARD RIGHT BRACKET             |
| 13 BJB        | * MAIN LANDING GEAR AFT RIGHT BRACKET                 |
| <b>13 BK0</b> | <b>MICROSWITCH (WOW SWITCH)</b>                       |
| <b>13 B99</b> | <b>NOC</b>  |
| <b>13 C00</b> | <b>MAIN LANDING GEAR BRAKE SYSTEM</b>                 |
| <b>13 CA0</b> | <b>*</b> RESERVOIR                                    |
| 13 CAA        | DRAINING TRAY ASSEMBLY                                |
| <b>13 CB0</b> | <b>LEFT WHEEL BRAKE ASSEMBLY</b>                      |
| 13 CBA        | WEAR INDICATOR  |
| 13 CBB        | BACK PLATE ASSY                                       |
| 13 CBC        | ROTOR DISK  |
| 13 CBD        | STATOR DISK   |

WORK  
UNIT  
CODE

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**13 000 LANDING GEAR**

13 CBE PLATE ASSY  
13 CBF TORQUE TUBE  
13 CBG COMPRESSION SPRING  
13 CBH **PISTON INSULATOR**  
13 CBJ BRAKE PISTON  
13 CBK HOUSING ASSY

**13 CC0 RIGHT WHEEL BRAKE ASSEMBLY**

13 CCA WEAR INDICATOR  
13 CCB BACK PLATE ASSY  
13 CCC ROTOR DISK  
13 CCD STATOR DISK  
13 CCE PLATE ASSY  
13 CCF TORQUE TUBE  
13 CCG COMPRESSION SPRING  
13 CCH **PISTON INSULATOR**  
13 CCJ BRAKE PISTON  
13 CCK HOUSING ASSY

**13 CD0 \* PARKING BRAKE VALVE**

13 CDA SWITCH S76

**13 CE0 \* COPILOT MASTER CYLINDER**

**13 CF0 \* PILOT MASTER CYLINDER**

**13 CG0 WHEEL BRAKE PARK CONTROL LEVER**

**13 CH0 RIGHT PRESSURE SWITCH (S74)**

**13 CJ0 LEFT PRESSURE SWITCH (S75)**

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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|        |  |
|--------|--|
| 13 000 | LANDING GEAR                                 |
| 13 C98 | WIRING                                       |
| 13 C99 | NOC  |
| 13 D00 | * NOSE LANDING GEAR (TCI)                    |
| 13 DA0 | LAND GEAR STRUT                              |
| 13 DAA | TOP TORQUE LINK                              |
| 13 DAB | BOTTOM TORQUE LINK                           |
| 13 DAC | MOORING LUG                                  |
| 13 DB0 | * WHEEL                                      |
| 13 DBA | SEAL   |
| 13 DBB | BEARING                                      |
| 13 DBC | BEARING CUP                                  |
| 13 DC0 | NOSE CENTER LOCK ASSEMBLY                    |
| 13 DCA | FLAG MARKER                                  |
| 13 DD0 | TIRE   |
| 13 D99 | NOC  |
| 13 E00 | LANDING GEAR EXTENSION AND RETRACTION SYSTEM |
| 13 EA0 | * LANDING GEAR CONTROL PANEL                 |
| 13 EB0 | * LANDING GEAR CONTROL VALVE                 |
| 13 EC0 | MANIFOLD                                     |
| 13 ED0 | * NOSE LANDING GEAR ACTUATOR (TCI)           |
| 13 EDA | * NOSE LANDING GEAR ACTUATOR BOLT (TCI)      |
| 13 EE0 | * LEFT MAIN LANDING GEAR ACTUATOR (TCI)      |
| 13 EEA | * LEFT MAIN LANDING GEAR ACTUATOR BOLT (TCI) |
| 13 EF0 | * RIGHT MAIN LANDING GEAR ACTUATOR (TCI)     |

13-004

**WORK  
UNIT  
CODE**

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**13 000 LANDING GEAR**

13 EFA \* RIGHT MAIN LANDING GEAR ACTUATOR BOLT (TCI)  
13 EG0 RELAY INSTL K53  
13 EH0 RELAY INSTL K54  
13 E98 WIRING  
13 E99 NOC



**FLIGHT CONTROL**14000 - *Flight control*WORK  
UNIT  
CODE

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|        |                                      |
|--------|--------------------------------------|
| 14 000 | FLIGHT CONTROL                       |
| 14 A00 | MAIN ROTOR COLLECTIVE CONTROL SYSTEM |
| 14 AA0 | * PILOT COLLECTIVE STICK ASSEMBLY    |
| 14 AAA | * PILOT COLLECTIVE GRIP ASSEMBLY     |
| 14 AAB | PANEL                                |
| 14 AAC | CONTROL PANEL ASSEMBLY               |
| 14 AAD | SWITCH, CAS RST                      |
| 14 AAE | SWITCH, GA/TU                        |
| 14 AAF | SWITCH, FTR                          |
| 14 AAG | SWITCH, FLOAT                        |
| 14 AAH | SWITCH, MOMENTARY 4 WAY, CLTV/YAW    |
| 14 AAJ | SWITCH, TQ LIM                       |
| 14 AAK | GUARD                                |
| 14 AAL | HALF SHELL                           |
| 14 AAM | SPHERE                               |
| 14 AAN | SWITCH, LDG LT                       |
| 14 AAP | SWITCH, CAT A                        |
| 14 AAQ | SWITCH, HOIST CUT                    |
| 14 AAR | KNOB                                 |
| 14 AAS | SWITCH, MOMENTARY 5 WAY, LDG LT 2    |
| 14 AAT | SWITCH, ENGINE TRIM, N2              |
| 14 AAU | SWITCH, ENGINE TRIM, N1              |
| 14 AAV | SWITCH, MOMENTARY 4 WAY              |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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## 14 000 FLIGHT CONTROL

|               |   |
|---------------|---|
| 14 AAW        | SWITCH, HOIST                                     |
| 14 AAX        | PLUG  |
| 14 AAY        | SWITCH, PUSH                                      |
| 14 AAZ        | SWITCH, TRIGGER                                   |
| 14 AA1        | GRIP  |
| 14 AA2        | BOOT  |
| <b>14 AB0</b> | <b>*</b> <b>COPilot COLLECTIVE STICK ASSEMBLY</b> |
| 14 ABA        | <b>*</b> <b>COPilot COLLECTIVE GRIP ASSEMBLY</b>  |
| 14 ABB        | PANEL   |
| 14 ABC        | CONTROL PANEL ASSEMBLY                            |
| 14 ABD        | SWITCH, CAS RST                                   |
| 14 ABE        | SWITCH, GA/TU                                     |
| 14 ABF        | SWITCH, FTR                                       |
| 14 ABG        | SWITCH, FLOAT                                     |
| 14 ABH        | SWITCH, MOMENTARY 4 WAY, CLTV/YAW                 |
| 14 ABJ        | SWITCH, TQ LIM                                    |
| 14 ABK        | GUARD   |
| 14 ABL        | HALF SHELL  |
| 14 ABM        | SPHERE  |
| 14 ABN        | SWITCH, LDG LT                                    |
| 14 ABP        | SWITCH, CAT A                                     |
| 14 ABQ        | SWITCH, HOIST CUT                                 |
| 14 ABR        | KNOB  |
| 14 ABS        | SWITCH, MOMENTARY 5 WAY, LDG LT 2                 |

**14-002**

**WORK  
UNIT  
CODE****14 000 FLIGHT CONTROL**

|                 |                             |
|-----------------|-----------------------------|
| 14 ABT          | SWITCH, ENGINE TRIM, N2     |
| 14 ABU          | SWITCH, ENGINE TRIM, N1     |
| 14 ABV          | SWITCH, MOMENTARY 4 WAY     |
| 14 ABW          | SWITCH, HOIST               |
| 14 ABX          | PLUG                        |
| 14 ABY          | SWITCH, PUSH                |
| 14 ABZ          | SWITCH, TRIGGER             |
| 14 AB1          | GRIP                        |
| 14 AB2          | BOOT                        |
| <b>14 AC0 *</b> | <b>TORQUE TUBE C1</b>       |
| 14 ACA          | ADJUSTABLE CLUTCH           |
| 14 ACB          | RIGHT HAND SUPPORT ASSEMBLY |
| 14 ACC          | FIXED CLUTCH ASSEMBLY       |
| 14 ACD          | LEFT HAND SUPPORT ASSEMBLY  |
| 14 ACE          | LOWER TORSION TUBE          |
| <b>14 AD0</b>   | <b>CONTROL ROD C2</b>       |
| 14 ADA          | ROD END                     |
| <b>14 AE0 *</b> | <b>TORQUE TUBE C3</b>       |
| 14 AEA          | JOINT 2 AXIS                |
| 14 AEB          | TORSION TUBE                |
| <b>14 AF0 *</b> | <b>SUPPORT C2-C3</b>        |
| <b>14 AG0</b>   | <b>BALANCE SPRING</b>       |
| <b>14 A98</b>   | <b>WIRING</b>               |
| <b>14 A99</b>   | <b>NOC</b>                  |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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14 000 FLIGHT CONTROL

14 B00 MAIN ROTOR CYCLIC CONTROL SYSTEM

14 BA0 \* PILOT CYCLIC STICK

14 BAA \* PILOT CYCLIC GRIP ASSEMBLY (NVG)

14 BAB PANEL

14 BAC CONTROL PANEL ASSEMBLY

14 BAD SWITCH, MOMENTARY 5 WAY, TRIM

14 BAE SWITCH, CARGO REL

14 BAF GUARD

14 BAG SWITCH, FIRE BUCKET

14 BAH SWITCH, WIPER

14 BAJ PUSH BUTTON, FD STBY

14 BAK PUSH BUTTON, CLTV TRIM

14 BAL GRIP

14 BAM PUSH BUTTON, FLARE DISP C/F FIRE

14 BAN PUSH BUTTON, SAS REL

14 BAP SWITCH, MOMENTARY 3 WAY, PTT

14 BAQ BOOT

14 BB0 \* COPILOT CYCLIC STICK

14 BBA \* COPILOT CYCLIC GRIP ASSEMBLY (NVG)

14 BBB PANEL

14 BBC CONTROL PANEL ASSEMBLY

14 BBD SWITCH, MOMENTARY 5 WAY, TRIM

14 BBE SWITCH, CARGO REL

14 BBF GUARD

14-004

**WORK  
UNIT  
CODE****14 000 FLIGHT CONTROL**

|               |  |
|---------------|--|
| 14 BBG        | SWITCH, FIRE BUCKET                        |
| 14 BBH        | SWITCH, WIPER                              |
| 14 BBJ        | PUSH BUTTON, FD STBY                       |
| 14 BBK        | PUSH BUTTON, CLTV TRIM                     |
| 14 BBL        | GRIP                                       |
| 14 BBM        | PUSH BUTTON, FLARE DISP C/F FIRE           |
| 14 BBN        | PUSH BUTTON, SAS REL                       |
| 14 BBP        | SWITCH, MOMENTARY 3 WAY, PTT               |
| 14 BBQ        | BOOT                                       |
| <b>14 BC0</b> | <b>PILOT CYCLIC STICK SUPPORT</b>          |
| 14 BCA        | CHANNEL                                    |
| 14 BCB        | LINKAGE                                    |
| 14 BCC        | STICK END                                  |
| 14 BCD        | SUPPORT                                    |
| <b>14 BD0</b> | <b>COPilot CYCLIC STICK SUPPORT</b>        |
| 14 BDA        | CHANNEL                                    |
| 14 BDB        | LINKAGE                                    |
| 14 BDC        | STICK END                                  |
| 14 BDD        | SUPPORT                                    |
| <b>14 BE0</b> | <b>* CYCLIC STICK TORQUE TUBE ASSEMBLY</b> |
| <b>14 BF0</b> | <b>CONTROL ROD F2</b>                      |
| 14 BFA        | ROD END                                    |
| <b>14 BG0</b> | <b>CONTROL ROD L2</b>                      |
| <b>14 BH0</b> | <b>CONTROL ROD L3</b>                      |

# **TO 1H-139(M)A-06-1**

**WORK  
UNIT  
CODE**

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**14 000 FLIGHT CONTROL**

|               |                              |
|---------------|------------------------------|
| 14 BHA        | ROD END                      |
| <b>14 BJ0</b> | <b>BELLCRANK L2-L3</b>       |
| 14 BJA        | L2/L3 LEVER ASSEMBLY         |
| 14 BJB        | SUPPORT ASSEMBLY             |
| <b>14 BK0</b> | <b>CONTROL ROD F3</b>        |
| <b>14 BL0</b> | <b>CONTROL ROD L4</b>        |
| <b>14 BM0</b> | <b>BELLCRANK F2/L3-F3/L4</b> |
| 14 BMA        | L3/L4 LEVER ASSEMBLY         |
| 14 BMB        | F2/F3 LEVER ASSEMBLY         |
| 14 BMC        | SUPPORT ASSEMBLY             |
| <b>14 BN0</b> | <b>CONTROL ROD F4</b>        |
| <b>14 BP0</b> | <b>CONTROL ROD L5</b>        |
| <b>14 BQ0</b> | <b>BELLCRANK F4/L5-F5/L6</b> |
| 14 BQA        | LEVER ASSEMBLY               |
| 14 BQB        | LEVER F4/F5 ASSEMBLY         |
| 14 BQC        | LEVER L5/L6 ASSEMBLY         |
| 14 BQD        | SUPPORT ASSEMBLY             |
| <b>14 BR0</b> | <b>CONTROL ROD F5</b>        |
| 14 BRA        | ROD END                      |
| <b>14 BS0</b> | <b>CONTROL ROD L6</b>        |
| 14 BSA        | ROD END                      |
| <b>14 BT0</b> | <b>BELLCRANK F3/L4-F4/L5</b> |
| 14 BTA        | LEVER F3/F4 ASSEMBLY         |
| 14 BTB        | LEVER L4/L5 ASSEMBLY         |

**14-006**

WORK  
UNIT  
CODE

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**14 000 FLIGHT CONTROL**

14 BTC SUPPORT ASSEMBLY

14 BTD FRICTION LEVER ASSEMBLY

**14 B98 WIRING**

**14 B99 NOC**

**14 C00 MAIN ROTOR MIXING CONTROL SYSTEM**

**14 CA0 \* MIXING UNIT**

14 CAA LATERAL MIXING LEVER

14 CAB LONGITUDINAL MIXING LEVER

14 CAC SLIDER

14 CAD SUPPORT

14 CAE FORWARD LINK

14 CAF AFT LINK

**14 CB0 CONTROL ROD M1**

**14 CC0 CONTROL ROD M2**

**14 CD0 BELLCRANK M1-M2**

14 CDA SUPPORT ASSEMBLY

14 CDB M1-M2 LEVER ASSEMBLY

**14 CE0 CONTROL ROD M3**

14 CEA ROD END

**14 CF0 BELLCRANK M2-M3**

14 CFA LEVER

14 CFB BEARINGS

14 CFC M2-M3 LEVER ASSEMBLY

14 CFD SPACER

# **TO 1H-139(M)A-06-1**

**WORK  
UNIT  
CODE**

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|               |  |
|---------------|--|
| <b>14 000</b> | <b>FLIGHT CONTROL</b>                            |
| <b>14 CG0</b> | <b>CONTROL ROD M7</b>                            |
| <b>14 CH0</b> | <b>CONTROL ROD M8</b>                            |
| 14 CHA        | ROD END  |
| <b>14 CJ0</b> | <b>BELLCRANK M7-M8</b>                           |
| 14 CJA        | LEVER  |
| 14 CJB        | BEARINGS   |
| 14 CJC        | M7-M8 LEVER ASSEMBLY                             |
| 14 CJD        | SPACER   |
| <b>14 CK0</b> | <b>CONTROL ROD M4</b>                            |
| <b>14 CL0</b> | <b>CONTROL ROD M5</b>                            |
| <b>14 CM0</b> | <b>BELLCRANK M4-M5</b>                           |
| 14 CMA        | SUPPORT ASSEMBLY                                 |
| 14 CMB        | M4-M5 LEVER ASSEMBLY                             |
| <b>14 CN0</b> | <b>CONTROL ROD M6</b>                            |
| 14 CNA        | ROD END  |
| <b>14 CP0</b> | <b>BELLCRANK M5-M6</b>                           |
| 14 CPA        | LEVER  |
| 14 CPB        | BEARINGS   |
| 14 CPC        | M5-M6 LEVER ASSEMBLY                             |
| 14 CPD        | SPACER   |
| <b>14 C99</b> | <b>NOC</b>                                       |
| <b>14 D00</b> | <b>SERVO CONTROL</b>                             |
| <b>14 DA0</b> | * <b>NUMBER 1 MAIN ROTOR SERVOACTUATOR (TCI)</b> |
| 14 DAA        | PRESSURE SWITCH                                  |

**14-008**

WORK  
UNIT  
CODE

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14 000 FLIGHT CONTROL

14 DB0 \* NUMBER 2 MAIN ROTOR SERVOACTUATOR (TCI)

14 DBA PRESSURE SWITCH

14 DC0 \* NUMBER 3 MAIN ROTOR SERVOACTUATOR (TCI)

14 DCA PRESSURE SWITCH

14 DD0 \* TAIL ROTOR SERVOACTUATOR (TCI)

14 DDA PRESSURE SWITCH

14 D98 WIRING

14 D99 NOC

14 E00 DIRECTIONAL (TAIL ROTOR) CONTROL

14 EA0 \* PILOT PEDAL ASSEMBLY

14 EAA ACTUATOR SPRING

14 EAB LEFT BRAKE PEDAL

14 EAC RIGHT BRAKE PEDAL

14 EAD LH/RH TUBE ASSY

14 EAE PEDAL ADJUSTER ROD ASSEMBLY

14 EAF THREAD SHAFT

14 EAG ROD ASSEMBLY

14 EAH LEVER ASSEMBLY

14 EAJ SHAFT

14 EAK PIVOT

14 EAL UPPER LINK

14 EAM LOWER LINK

14 EAN LINK BUSHINGS

14 EAP LOWER SUPPORT SHAFT

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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## 14 000 FLIGHT CONTROL

|               |                                 |
|---------------|---------------------------------|
| 14 EAQ        | LOWER END ASSEMBLY              |
| 14 EAR        | PEDAL LEVEL ADJUSTER            |
| 14 EAS        | SUPPORT ASSY                    |
| <b>14 EB0</b> | <b>* COPILOT PEDAL ASSEMBLY</b> |
| 14 EBA        | ACTUATOR SPRING                 |
| 14 EBB        | LEFT BRAKE PEDAL                |
| 14 EBC        | RIGHT BRAKE PEDAL               |
| 14 EBD        | LH/RH TUBE ASSY                 |
| 14 EBE        | PEDAL ADJUSTER ROD ASSEMBLY     |
| 14 EBF        | THREAD SHAFT                    |
| 14 EBG        | ROD ASSEMBLY                    |
| 14 EBH        | LEVER ASSEMBLY                  |
| 14 EBJ        | SHAFT                           |
| 14 EBK        | PIVOT                           |
| 14 EBL        | UPPER LINK                      |
| 14 EBM        | LOWER LINK                      |
| 14 EBN        | LINK BUSHINGS                   |
| 14 EBP        | LOWER SUPPORT SHAFT             |
| 14 EBQ        | LOWER END ASSEMBLY              |
| 14 EBR        | PEDAL LEVEL ADJUSTER            |
| 14 EBS        | SUPPORT ASSY                    |
| <b>14 EC0</b> | <b>CONTROL ROD Y2</b>           |
| 14 ECA        | ROD END                         |
| <b>14 ED0</b> | <b>CONTROL ROD Y3</b>           |

**14-010**

WORK  
UNIT  
CODE

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**14 000 FLIGHT CONTROL**

14 EDA ROD END

**14 EE0 BELLCRANK Y2-Y3**

14 EEA FRICTION LEVER ASSEMBLY

14 EEB Y2-Y3 LEVER ASSEMBLY

14 EEC SUPPORT ASSEMBLY

**14 EF0 CONTROL ROD Y4**

**14 EG0 CONTROL ROD Y5**

14 EGA ROD END

**14 EH0 BELLCRANK Y4-Y5**

14 EHA LEVER ASSEMBLY

14 EHB BEARING

14 EHC SUPPORT ASSEMBLY

**14 EJ0 CONTROL ROD Y6**

**14 EK0 BELLCRANK Y5-Y6**

14 EKA LEVER ASSEMBLY

14 EKB BEARING

14 EKC SUPPORT ASSEMBLY

**14 EL0 CONTROL ROD Y7**

**14 EM0 BELLCRANK Y6-Y7**

14 EMA LEVER ASSEMBLY

14 EMB BEARING

14 EMC SUPPORT ASSEMBLY

**14 EN0 CONTROL ROD Y8**

14 ENA ROD END

# **TO 1H-139(M)A-06-1**

**WORK  
UNIT  
CODE**

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**14 000 FLIGHT CONTROL**

**14 EP0 BELLCRANK Y7-Y8**

14 EPA SPRING

14 EPB Y7-Y8 PIVOT

14 EPC SUPPORT PIVOT

14 EPD Y7-Y8 LEVER ASSEMBLY

14 EPE LEVER ASSEMBLY

14 EPF SUPPORT

14 EPG PIVOT

**14 EQ0 CONTROL ROD Y9**

**14 ER0 BELLCRANK Y8-Y9**

14 ERA Y8-Y9 LEVER ASSEMBLY

14 ERB BEARING

14 ERC SUPPORT ASSEMBLY

**14 ES0 CONTROL ROD Y10**

14 ESA ROD END

**14 ET0 BELLCRANK Y9-Y10**

14 ETA Y9-Y10 LEVER ASSEMBLY

14 ETB BEARING

14 ETC SUPPORT ASSEMBLY

**14 EU0 BALANCE SPRING**

**14 E99 NOC**

**14-012**

# AIRCRAFT ROTOR

15000 - Aircraft rotor

WORK  
UNIT  
CODE

|        |                              |
|--------|------------------------------|
| 15 000 | AIRCRAFT ROTOR               |
| 15 A00 | MAIN ROTOR                   |
| 15 AA0 | * MAIN ROTOR BLADE (TCI)     |
| 15 AAA | LEADING EDGE COVER           |
| 15 AAB | BALANCED WEIGHT POCKET COVER |
| 15 AAC | TRIM TAB                     |
| 15 AB0 | BLADE BOLT                   |
| 15 AC0 | * BEANIE                     |
| 15 AD0 | * CLOSURE FLANGE             |
| 15 AE0 | INDEX PIN                    |
| 15 AF0 | * TOP CONICAL RING           |
| 15 AG0 | UPPER ADAPTER ASSY           |
| 15 AH0 | MAIN ROTOR RING NUT          |
| 15 AJ0 | MAIN ROTOR RING ELEMENT      |
| 15 A99 | NOC                          |
| 15 B00 | * MAIN ROTOR HUB (HEAD)      |
| 15 BA0 | * HUB ASSEMBLY (TCI)         |
| 15 BAA | ADAPTER RING                 |
| 15 BAB | * HUB DAMPER BOLT (TCI)      |
| 15 BB0 | * LAG DAMPER (TCI)           |
| 15 BBA | * ROD END (TCI)              |
| 15 BC0 | * PITCH CONTROL LEVER        |
| 15 BD0 | * FLAPPING LIMITER           |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

|        |   |
|--------|---|
| 15 000 | AIRCRAFT ROTOR                                  |
| 15 BDA | * FLAPPING LIMITER PIN                          |
| 15 BE0 | * FLAPPING LIMITER SUPPORT                      |
| 15 BF0 | * DROOP STOP BRACKET                            |
| 15 BFA | * DROOP STOP PLATE                              |
| 15 BG0 | ANTI-ROTATION BLOCK                             |
| 15 BH0 | * TENSION LINK AND ELASTOMERIC BEARING ASSEMBLY |
| 15 BHA | TENSION LINK                                    |
| 15 BHB | * ELASTOMERIC BEARING (TCI)                     |
| 15 BJ0 | FLANGED BUSH (TENSION LINK)                     |
| 15 BK0 | * DROOP STOP PIN                                |
| 15 BL0 | * LAG DAMPER BOLT                               |
| 15 BM0 | * SCISSOR ATTACHMENT FITTING (TCI)              |
| 15 BN0 | * BOTTOM CONICAL RING                           |
| 15 BP0 | * SLIDING RING                                  |
| 15 BQ0 | INBOARD LIGHTNING CONDUCTOR JUMPER              |
| 15 BR0 | BONDING CONTACTOR                               |
| 15 BRA | SPRING CONTACTOR                                |
| 15 BS0 | INDEX PIN                                       |
| 15 B99 | NOC   |
| 15 C00 | * SWASHPLATE ASSEMBLY                           |
| 15 CA0 | * SPERICAL BEARING                              |
| 15 CB0 | * FIXED SWASHPLATE                              |
| 15 CC0 | * DUPLEX BEARING                                |
| 15 CD0 | * ROTATING SWASHPLATE (TCI)                     |

15-002

**WORK  
UNIT  
CODE****15 000 AIRCRAFT ROTOR**

15 CDA \* SCISSOR RET. BOLT  
15 CDB \* SLIDING BLOCK  
15 CDC \* SPECIAL LOWER RING  
15 CDD \* SPECIAL UPPER RING  
15 CDE \* SLIDING BLOCK BOLT

**15 CE0 INTERRUPTER****15 CF0 TRANSDUCER****15 CG0 \* PITCH LINK**

15 CGA UPPER ROD END  
15 CGB \* ROD SLEEVE  
15 CGC LOWER ROD END AND TUBE ASSY

**15 CH0 ROTATING SCISSORS**

15 CHA \* UPPER SCISSOR LEVER ASSY (**TCI**)  
15 CHB \* SCISSOR LEVER BEARING  
15 CHC UPPER SCISSOR LEVER PLUG  
15 CHD UPPER SCISSOR BUSHING  
15 CHE \* LOWER SCISSOR LEVER ASSY (**TCI**)  
15 CHF LOWER SCISSOR LEVER  
15 CHG PROTECTION STRIP  
15 CHH BUSHING  
15 CJ0 SWASHPLATE BOOT  
15 CK0 CENTERING PLATE  
15 CL0 BOTTOM BOOT  
15 CM0 ADAPTER EDGE

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

## 15 000 AIRCRAFT ROTOR

|        |                                 |                                     |
|--------|---------------------------------|-------------------------------------|
| 15 CMA | UPPER ADAPTER EDGE              |                                     |
| 15 CMB | LOWER ADAPTER EDGE              |                                     |
| 15 CN0 | *                               | LOCKING RING OUTER (TCI)            |
| 15 CP0 | *                               | LOCKING RING INNER                  |
| 15 C99 | NOC                             |                                     |
| 15 D00 | TAIL ROTOR                      |                                     |
| 15 DA0 | *                               | TAIL ROTOR BLADE ASSEMBLY (TCI)     |
| 15 DB0 | *                               | TAIL ROTOR <b>BLADE</b> BOLT (TCI)  |
| 15 DC0 | *                               | BLADE DAMPER ATTACHMENT (TCI)       |
| 15 DD0 | *                               | ELASTOMERIC BEARING (TCI)           |
| 15 DE0 | BLADE BOLT ASSEMBLY             |                                     |
| 15 DF0 | LIGHTING CONDUCTOR JUMPER       |                                     |
| 15 DG0 | *                               | TAIL ROTOR ELASTOMERIC DAMPER (TCI) |
| 15 DH0 | *                               | ROTOR HUB (TCI)                     |
| 15 DHA | TAIL ROTOR HUB FLANGED BUSHINGS |                                     |
| 15 DHB | TOP CONICAL RING                |                                     |
| 15 DHC | LOWER CONICAL HALF RINGS        |                                     |
| 15 DHD | TAIL ROTOR LOCKNUT              |                                     |
| 15 DHE | TAIL ROTOR LOCKING FLANGE       |                                     |
| 15 DHF | *                               | TAIL ROTOR DAMPER BRACKET ASSY      |
| 15 DJ0 | *                               | TAIL ROTOR PITCH LINK               |
| 15 DJA | *                               | UPPER ROD ENDS                      |
| 15 DJB | *                               | LOWER ROD ENDS                      |
| 15 DK0 | SCISSORS                        |                                     |

15-004

**WORK  
UNIT  
CODE**

**15 000 AIRCRAFT ROTOR**

15 DKA            BUSHING

**15 DL0        COVER**

**15 DM0    \* SLIDING CONTROL ASSEMBLY**

15 DMA    \* TAIL ROTOR DUPLEX BEARING **(TCI)**

15 DMB    \* SPIDER AND SLIDER ASSEMBLY

15 DMC            SPIDER AND SLIDER ASSEMBLY BUSHINGS

15 DMD            TAIL CONTROL ROD NUT

**15 DN0        SLIDER BUSHING**

**15 DP0        BOOT**

**15 D99        NOC**



**TURBOSHAFT ENGINE***22000 - Turboshaft engine*

**WORK  
UNIT  
CODE**

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|        |   |
|--------|---|
| 22 000 | <b>TURBOSHAFT ENGINE</b>                    |
| 22 A00 | * <b>ENGINE ASSEMBLY</b>                    |
| 22 AA0 | <b>AIR INLET SECTION</b>                    |
| 22 AAA | SCREEN ASSY, AIR INLET                      |
| 22 AAB | CASE ASSEMBLY, COMPRESSOR INLET             |
| 22 AAC | TUBE, TRANSFER                              |
| 22 AAD | STRAINER ELEMENT, ASSEMBLY, OIL NOZZLE      |
| 22 AAE | ELBOW, OVERBOARD BREATHER, 90 DEG.          |
| 22 AAF | INDICATOR, OIL LEVEL                        |
| 22 AAG | ADAPTER, DRAIN, OIL TANK                    |
| 22 AAH | STRAINER, ASSEMBLY, OIL                     |
| 22 AAJ | BRACKET, FIREWALL                           |
| 22 AB0 | <b>COMPRESSOR SECTION</b>                   |
| 22 ABA | RING, MOUNTING, TOP CENTER FIREWALL         |
| 22 ABB | RING, MOUNTING, BOTTOM CENTER FIREWALL      |
| 22 ABC | RING, MOUNTING ASSEMBLY, TOP, REAR FIRESEAL |
| 22 ABD | RING ASSEMBLY, BOTTOM CENTER FIRESEAL       |
| 22 ABE | * CASE, ASSEMBLY, GAS GENERATOR             |
| 22 ABF | DUCT ASSY, DIFFUSER EXIT, GAS GEN           |
| 22 ABG | SEAL ASSEMBLY, AIR, COMPRESSOR STATOR       |
| 22 ABH | HOUSING ASSEMBLY, NO. 1 BEARING OUTER       |
| 22 ABJ | HOUSING, NO. 1 BEARING, INNER               |
| 22 ABK | NOZZLE, OIL, NO. 2 BEARING                  |

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WORK  
UNIT  
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## 22 000 TURBOSHAFT ENGINE

### 22 AC0 COMPRESSOR ROTOR BALANCING ASSEMBLY

22 ACA RUNNER, CARBON SEAL, NO.2 BEARING

22 ACB \* BEARING, ROLLER, FLANGED NO. 2

22 ACC SLINGER, OIL, NO.2 BEARING

22 ACD \* RUNNER, SEAL, NO.2 BEARING

22 ACE \* SHAFT, STUB, COMPRESSOR ROTOR

22 ACF TIE ROD, COMPRESSOR ROTOR

22 ACG \* IMPELLER, CENTRIFUGAL

22 ACH SPACER, OIL SLINGER

22 ACJ SEAL, AIR, COMPRESSOR ROTOR

22 ACK \* ROTOR, COMPRESSOR

22 ACL WEIGHT, BALANCE, COMPRESSOR (3036722CL)

22 ACM SHAFT ASSEMBLY, COMPRESSOR ROTOR (IC)

22 ACN COMPRESSOR STATOR ASSEMBLY, FIRST STAGE

22 ACP RING HALF, SPACER

22 ACQ COMPRESSOR STATOR ASSEMBLY, SECOND STAGE

22 ACR COMPRESSOR STATOR ASSEMBLY, THIRD STAGE

22 ACS COMPRESSOR STATOR ASSEMBLY, FOURTH STAGE

22 ACT WEIGHT, BALANCE, TURBINE

22 ACU WEIGHT, BALANCE, COMPRESSOR (3032255CL)

22 ACV COMPRESSOR ROTOR, 1ST STAGE

22 ACW COMPRESSOR ROTOR, 2ND STAGE

22 ACX COMPRESSOR ROTOR, 3RD STAGE

22 ACY COMPRESSOR ROTOR, 4TH STAGE

**22-002**

**WORK  
UNIT  
CODE****22 000 TURBOSHAFT ENGINE****22 AD0 COMBUSTION SECTION**

22 ADA \* LINER ASSEMBLY, COMBUSTION CHAMBER, INNER  
22 ADB RING, COOLING, COMBUSTION CHAMBER LINER, INNER  
22 ADC \* LINER ASSEMBLY, COMBUSTION CHAMBER, OUTER

**22 AE0 POWER TURBINE SECTION**

22 AEA SEAL, AIR, COMPRESSOR TURBINE STATOR  
22 AEB COVER, NO. 2 BEARING HOUSING  
22 AEC COVER, NO. 2 BEARING  
22 AED PLATE, RETAINING, CARBON SEAL  
22 AEE SEAL, CARBON, NO.2 BEARING  
22 AEF HOUSING, CARBON SEAL, NO.2 BEARING  
22 AEG RING, SEALING, POWER TURBINE HOUSING  
22 AEH PLATE, LOCK, COMPRESSOR TURBINE VANE RING  
22 AEJ HOUSING-COMPRESSOR TURBINE SHROUD  
22 AEK SHROUD SEGMENT, COMPRESSOR TURBINE  
22 AEL \* RING, SEALING, COMPRESSOR TURBINE VANE  
(3123386-01)  
22 AEM \* STATOR ASSEMBLY, COMPRESSOR TURBINE  
22 AEN RING, SEALING, COMPRESSOR TURBINE SHROUD  
22 AEP RING, SEALING, COMPRESSOR TURBINE VANE  
(3070391-01)  
22 AEQ DUCT ASSEMBLY, COMBUSTION CHAMBER EXIT, SMALL  
22 AER FLANGE, NO. 2 BEARING HOUSING COVER  
22 AES HOUSING ASSEMBLY, POWER TURBINE STATOR  
22 AET RING, RETAINING, VANE RING

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## 22 000 TURBOSHAFT ENGINE

|               |   |   |
|---------------|---|---|
| 22 AEU        | * | POWER TURBINE STATOR ASSEMBLY                     |
| 22 AEV        | * | DUCT ASSEMBLY, TURBINE EXHAUST, SINGLE PORT,      |
| 22 AEW        |   | INSULATION BLANKET ASSEMBLY, POWER SECTION        |
| 22 AEX        |   | COVER ASSEMBLY, POWER TURBINE SHAFT HOUSING       |
| 22 AEY        |   | BAFFLE HOUSING, POWER TURBINE                     |
| 22 AEZ        |   | SHIELD ASSEMBLY, INSULATION                       |
| <b>22 AF0</b> | * | <b>NO. 5 BRG SUPPORT HOUSING ASSEMBLY</b>         |
| 22 AFA        |   | FIRESEAL ASSEMBLY, FRONT, TOP                     |
| 22 AFB        |   | FIRESEAL ASSEMBLY, FRONT, BOTTOM                  |
| 22 AFC        |   | HOUSING, SEAL FACE                                |
| 22 AFD        |   | SEAL FACE, CARBON                                 |
| 22 AFE        |   | NOZZLE ASSY, OIL, NO. 5 BEARING                   |
| 22 AFF        |   | PUMP, OIL JET                                     |
| 22 AFG        |   | STRAINER SLEEVE ASSEMBLY, OIL PRESSURE            |
| 22 AFH        |   | TUBE-TRANSFER                                     |
| 22 AJF        |   | NOZZLE ASSEMBLY, OIL, NO. 3, 4 AND 5 BEARING      |
| 22 AFK        |   | TUBE OIL, SCAVENGE, NO. 3 AND 4 BEARING           |
| 22 AFL        | * | HOUSING ASSEMBLY, POWER TURBINE SHAFT             |
| 22 AFM        |   | SEAL, CARBON                                      |
| <b>22 AG0</b> |   | <b>COMPRESSOR TURBINE DISK BALANCING ASSEMBLY</b> |
| 22 AGA        | * | DISC, TURBINE                                     |
| 22 AGB        | * | BLADE, TURBINE, COMPRESSOR                        |
| 22 AGC        |   | SEAL, TURBINE BLADE PLATFORM                      |
| 22 AGD        |   | WEIGHT, BALANCE, TURBINE                          |

**22-004**

WORK  
UNIT  
CODE

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**22 000 TURBOSHAFT ENGINE**

**22 AH0 POWER TURBINE ROTOR BALANCING ASSEMBLY**

|        |   |  |
|--------|---|--|
| 22 AHA | * | SHAFT ASSEMBLY, OUTPUT                     |
| 22 AHB | * | BEARING, BALL, FLANGED (NO.5 BRG)          |
| 22 AHC |   | RING, RETAINING                            |
| 22 AHD | * | SHAFT ASSEMBLY, POWER TURBINE              |
| 22 AHE | * | BEARING, No. 4                             |
| 22 AHF |   | SPACER, TURBINE SHAFT                      |
| 22 AHG | * | DISK ASSEMBLY, SECOND STAGE, POWER TURBINE |
| 22 AHJ | * | RUNNER, SEAL, NO.3 BEARING                 |
| 22 AHK |   | SEAL, AIR, TURBINE INTERSTAGE ROTOR        |
| 22 AHL | * | DISK ASSEMBLY, FIRST STAGE, POWER TURBINE  |
| 22 AHM |   | WEIGHT, BALANCE (PLANE X)                  |
| 22 AHN |   | WEIGHT, BALANCE (PLANE Y)                  |
| 22 AHP |   | BLADE, 1st STG, POWER TURBINE              |
| 22 AHQ |   | BLADE, 2nd STG, POWER TURBINE              |
| 22 AHR |   | WEIGHT, BALANCE (3070535-01)               |

**22 AJ0 ACCESSORY GEARBOX**

|        |   |
|--------|---|
| 22 AJA | BRACKET, ENGINE LIFTING                     |
| 22 AJB | BRACKET, ANGLE, 90-DEG                      |
| 22 AJC | BRACKET, FLAT                               |
| 22 AJD | CARRIER, OIL SEAL                           |
| 22 AJE | SEAL, PLAIN                                 |
| 22 AJF | COVER, PLAIN 2.653 IN. BOLT CIRCLE, 4 HOLES |
| 22 AJG | ELBOW, TUBE                                 |

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## 22 000 TURBOSHAFT ENGINE

|               |   |
|---------------|---|
| 22 AJH        | CAP ASSEMBLY, TUBE  |
| 22 AJJ        | ADAPTER, OIL FEED, ASSEMBLY                                 |
| 22 AJK        | DIAPHRAGM ASSEMBLY, ACCESSORY GEARBOX                       |
| 22 AJL        | HOUSING ASSEMBLY, ACCESSORY GEARBOX                         |
| 22 AJM        | NOZZLE ASSY, OIL, STARTER GENERATOR DRIVE                   |
| 22 AJN        | TUBE, TRANSFER  |
| 22 AJP        | TUBE, TRANSFER, OIL FILTER                                  |
| 22 AJQ        | STRAINER, OIL PRESS PUMP INLET                              |
| 22 AJR        | NOZZLE ASSY, OIL, OPTIONAL ACCESSORY DRIVE                  |
| <b>22 AK0</b> | <b>ACCESSORY GEARBOX GEARSHAFTS AND INTERNAL COMPONENTS</b> |
| 22 AKA *      | GEARSHAFT, STARTER GENERATOR DRIVE                          |
| 22 AKB        | IMPELLER ASSEMBLY, CENTRIFUGAL BREATHER                     |
| 22 AKC        | GEARSHAFT, INPUT, ACCESSORY GEARBOX DRIVE                   |
| 22 AKD        | GEARSHAFT, SPUR, PMA DRIVE                                  |
| 22 AKE *      | GEARSHAFT, SPUR, FMM DRIVE                                  |
| 22 AKF *      | BEARING   |
| 22 AKG        | CARRIER, SEAL   |
| 22 AKH        | SEAL FACE   |
| <b>22 AL0</b> | <b>ACCESSORY GEARBOX PUMP, MAIN PRESSURE, OIL</b>           |
| 22 ALA        | COVER, OIL PRESSURE PUMP                                    |
| 22 ALB        | GEARSHAFT, SPUR, OIL PRESSURE PUMP, SEVEN TEETH             |
| 22 ALC        | GEAR, SPUR, OIL PRESSURE PUMP, SEVEN TEETH                  |
| 22 ALD        | SCREEN-PRESSURE PUMP  |

**22-006**

**WORK  
UNIT  
CODE****22 000 TURBOSHAFT ENGINE**

|        |  |
|--------|--|
| 22 ALE | HOUSING, COLD START VALVE                |
| 22 ALF | VALVE, REGULATING, COLD START            |
| 22 ALG | SLEEVE, REGULATING VALVE, COLD START     |
| 22 ALH | COVER, PRESSURE RELIEF VALVE             |
| 22 ALJ | SEAT, SPRING ADJUSTING, REGULATING VALVE |
| 22 ALK | VALVE, PRESSURE RELIEF                   |
| 22 ALL | VALVE, OIL FILTER BYPASS                 |

**22 AM0 ACCESSORY GEARBOX PUMP, SCAVAGE PUMP**

|          |                             |
|----------|-----------------------------|
| 22 AMA   | PUMP ASSEMBLY, OIL SCAVENGE |
| 22 AMB   | GEAR, SPUR, OIL PUMP DRIVE  |
| 22 AMC * | GEARSHAFT-SPUR              |
| 22 AMD   | BEARING                     |
| 22 AME   | TRAY, OIL                   |
| 22 AMF   | HOUSING, BLOWDOWN VALVE     |

**22 AN0 FUEL DISTRIBUTION**

|          |  |
|----------|--|
| 22 ANA * | HEATER, OIL TO FUEL                          |
| 22 ANB   | SEAL, FUEL HEATER                            |
| 22 ANC   | TUBE, FUEL PRESSURE, ACCUMULATOR TO MANIFOLD |
| 22 AND   | MANIFOLD, FUEL                               |
| 22 ANE * | NOZZLE, FUEL, ADAPTER AND STEM               |
| 22 ANF * | NOZZLE, FUEL, SIMPLEX AND DIVIDER            |
| 22 ANG   | SHEAT, FUEL NOZZLE                           |
| 22 ANH   | RING, FUEL NOZZLE                            |
| 22 ANJ   | STRAINER, FUEL NOZZLE                        |

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### **22 000 TURBOSHAFT ENGINE**

22 ANK NOZZLE, FUEL  
22 ANL ADAPTER, DRAIN VALVE  
22 ANM VALVE, DRAIN, GAS GENERATOR CASE  
22 ANN \* ACCUMULATOR, ECOLOGY SYSTEM

### **22 AP0 FUEL CONTROLLING**

22 APA \* FUEL MANAGEMENT MODULE  
22 APB ELEMENT, FILTER, FUEL PUMP  
22 APC TUBE AIR INSULATED, P3 BOSS TO FMM, ASSEMBLY  
22 APD \* ENGINE CONTROL, ELECTRONIC  
22 APE \* STATOR, ALTERNATING CURRENT, GENERATING  
22 APF \* ROTOR-ALTERNATING CURRENT,GENERATING  
22 APG \* WIRING HARNESS, ELECTRICAL

### **22 AQ0 FUEL INDICATING**

22 AQA SWITCH-FUEL, IMPENDING BYPASS AND TEMPERATURE

### **22 AR0 IGNITION**

22 ARA EXCITER-IGNITION  
22 ARB IGNITER  
22 ARC CABLE, IGNITION, EXCITER TO IGNITER

### **22 AS0 AIR SYSTEM**

22 ASA VALVE BLEED, ELECTRONIC  
22 ASB SCREEN, CARTRIDGE  
22 ASC TUBE, AIR ASSEMBLY, P3 AIR TO BLEED VALVE

### **22 AT0 POWER INDICATING**

22 ATA \* SENSOR, SPEED, NG

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**22 000 TURBOSHAFT ENGINE**

22 ATB \* SENSOR, NPT AND TORQUE

**22 AU0 TEMPURATURE INDICATING**

22 AUA \* WIRING HARNESS T5

22 AUB WIRING, HARNESS, T1 SENSOR

**22 AW0 INTIGRATED ENGINE INSTRUMENT**

22 AWA DATA COLLECTION UNIT

**22 AX0 OIL STORAGE**

22 AXA CAP, FILLER, OIL TANK

22 AXB TUBE ASSEMBLY, FLANGED, OIL FILLER

**22 AY0 OIL DISTRIBUTION**

22 AYA TUBE ASSEMBLY, NO.2,3,4,5 BEARING PRESSURE OIL

22 AYB TUBE ASSY, NO.3,4,5 BEARING PRESSURE OIL

22 AYC TUBE, TRANSFER, ASSEMBLY

22 AYD TUBE ASSY, NO.3,4,5 BEARING SCAVENGE OIL

22 AYE TUBE OIL ASSEMBLY, SCAVENGE No. 2 BRG

22 AYF COVER-OIL FILTER

22 AYG FILTER ELEMENT-OIL

22 AYH \* INDICATOR-OIL FILTER, IMPENDING, BY-PASS

22 AYJ PLATE , MOUNTING, FUEL COOLED OIL COOLER

22 AYK COOLER, OIL, FUEL COOLED

22 AYL TUBE ASSEMBLY, FCOC TO INLET CASE, OIL

22 AYM HOSE, HYBRID, TWO HOLE

**22 AZ0 OIL INDICATING**

22 AZA PLUG, CHIP DETECTOR, MAGNETIC

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## 22 000 TURBOSHAFT ENGINE

22 AZB            VALVE, CHIP DETECTOR, SELF-CLOSING

22 AZC    \*        SENSOR, OIL PRESSURE

22 AZD            SWITCH-OIL (MOT & LOP)

## 22 A10 \* HOSES AND TUBES (TCI)

22 A99            NOC

## 22 B00 FIRE SEALS

22 BA0            SEAL

22 BB0            FLAT SEAL

22 B99            NOC

## 22 C00 ENGINE EXHAUST

22 CA0            NO. 1 EXHAUST NOZZLE

22 CB0            NO. 2 EXHAUST NOZZLE

22 C99            NOC

## 22 D00 ENGINE MOUNT

### 22 DA0            NO. 1 ENGINE MOUNT

22 DAA    \*        ENGINE OUTBOARD FITTING

22 DAB    \*        ENGINE INBOARD FITTING

22 DAC    \*        ENGINE OUTBOARD LINK

22 DAD    \*        ENGINE INBOARD LINK

22 DAE            ENGINE OUTBOARD BRACKET

22 DAF            ENGINE INBOARD BRACKET

### 22 DB0            NO. 2 ENGINE MOUNT

22 DBA    \*        ENGINE OUTBOARD FITTING

22 DBB    \*        ENGINE INBOARD FITTING

22-010

**WORK  
UNIT  
CODE****22 000 TURBOSHAFT ENGINE**

22 DBC \* ENGINE OUTBOARD LINK  
22 DBD \* ENGINE INBOARD LINK  
22 DBE ENGINE OUTBOARD BRACKET  
22 DBF ENGINE INBOARD BRACKET

**22 D99 NOC****22 E00 ENGINE CONTROL****22 EA0 \* POWER LEVEL QUADRANT**

22 EAA HANDLE  
22 EAB PIN

**22 EB0 NO. 1 ENGINE CONTROL**

22 EBA \* POWER CONTROL CABLE  
22 EBB \* ENGINE CONTROL GEARBOX  
22 EBC \* ENGINE CONTROL BOX  
22 EBD ENGINE CONTROL GEARBOX BRACKET  
22 EBE \* ENGINE CONTROL PANEL  
22 EBF \* ENGINE RELAY BOX  
22 EBG ENGINE ELECTRONIC CONTROL  
22 EBH LINEAR VARIABLE DIFFERENTIAL TRANSFORMER  
22 EBJ LVDT CLAMP

**22 EC0 NO. 2 ENGINE CONTROL**

22 ECA \* POWER CONTROL CABLE  
22 ECB \* ENGINE CONTROL GEARBOX  
22 ECC ENGINE CONTROL BOX  
22 ECD ENGINE CONTROL GEARBOX BRACKET

# **TO 1H-139(M)A-06-1**

**WORK  
UNIT  
CODE**

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## **22 000 TURBOSHAFT ENGINE**

|                 |  |
|-----------------|--|
| 22 ECE          | ENGINE CONTROL PANEL                     |
| 22 ECF *        | ENGINE RELAY BOX                         |
| 22 ECG          | ENGINE ELECTRONIC CONTROL                |
| 22 ECH          | LINEAR VARIABLE DIFFERENTIAL TRANSFORMER |
| 22 ECJ          | LVDT CLAMP                               |
| <b>22 ED0 *</b> | <b>ENGINE CONTROL PANEL</b>              |
| <b>22 E99</b>   | <b>NOC</b>                               |
| <b>22 F00</b>   | <b>ENGINE-GEARBOX COUPLINGS</b>          |
| <b>22 FA0</b>   | <b>NO. 1 ENGINE GEARBOX COUPLINGS</b>    |
| 22 FAA *        | TORQUE TUBE                              |
| 22 FAB          | BUSHING (SLEEVE POWER TURBINE SHAFT)     |
| 22 FAC *        | CROSSHEAD                                |
| 22 FAD *        | DRIVE SHAFT (TCI)                        |
| 22 FAE          | SHIELD                                   |
| <b>22 FB0</b>   | <b>NO. 2 ENGINE GEARBOX COUPLINGS</b>    |
| 22 FBA *        | TORQUE TUBE                              |
| 22 FBB          | BUSHING (SLEEVE POWER TURBINE SHAFT)     |
| 22 FBC *        | CROSSHEAD                                |
| 22 FBD *        | DRIVE SHAFT (TCI)                        |
| 22 FBE          | SHIELD                                   |
| <b>22 F99</b>   | <b>NOC</b>                               |

**22-012**

# ROTOR DRIVE

26000 - Rotor drive

WORK  
UNIT  
CODE

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|        |   |
|--------|---|
| 26 000 | ROTOR DRIVE                                 |
| 26 A00 | * MAIN GEARBOX (TCI)                        |
| 26 AA0 | FRONT PUMP DRIVE QUILL                      |
| 26 AB0 | * LEFT HAND LUBRICATION PUMP ASSEMBLY (TCI) |
| 26 ABA | * LUBRICATION PUMP (TCI)                    |
| 26 AC0 | FAN DRIVE QUILL                             |
| 26 AD0 | LEFT/RIGHT INPUT SHAFT FREEWHEEL            |
| 26 AE0 | * FRONT SERVOACTUATOR BRACKET               |
| 26 AF0 | * LEFT/RIGHT (AFT) SERVOACTUATOR BRACKET    |
| 26 AG0 | * LEFT/RIGHT GIMBAL (TCI)                   |
| 26 AGA | * INPUT ASSY, GIMBAL                        |
| 26 AH0 | LEFT/RIGHT GIMBAL BUSHINGS                  |
| 26 AJ0 | OIL FILTER HEAD                             |
| 26 AK0 | OIL FILTER ELEMENT                          |
| 26 AL0 | ANTI-SPILL VALVE                            |
| 26 AM0 | * RIGHT LUBRICATION PUMP ASSEMBLY (TCI)     |
| 26 AMA | * LUBRICATION PUMP (TCI)                    |
| 26 AN0 | LEFT/RIGHT PRESSURE RELIEF VALVE            |
| 26 AP0 | LEFT/RIGHT PUMP DRIVE QUILL                 |
| 26 AQ0 | LEFT/RIGHT INPUT SHAFT MODULE CARBON SEAL   |
| 26 AR0 | FRONT PUMP DRIVE QUILL LIP SEAL             |
| 26 AS0 | ECS COMPRESSOR DRIVE QUILL LIP SEAL         |
| 26 AT0 | LEFT/RIGHT PUMP DRIVE QUILL LIP SEAL        |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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|        |  |
|--------|--|
| 26 000 | ROTOR DRIVE                            |
| 26 AU0 | FAN DRIVE QUILL LIP SEAL               |
| 26 AV0 | TAIL ROTOR DRIVE QUILL LIP SEAL        |
| 26 AW0 | MAST LIP SEAL                          |
| 26 AX0 | * TAIL ROTOR DRIVE ADAPTER             |
| 26 AY0 | NUMBER 1 GENERATOR DRIVE QUILL         |
| 26 AZ0 | * LEFT/ RIGHT CROSS SHAFT ASSY         |
| 26 A10 | LEFT/RIGHT CHECK VALVE                 |
| 26 A20 | * ANTITORQUE BEAM BOLTS ( <b>TCI</b> ) |
| 26 A30 | MAIN GEARBOX OIL JETS                  |
| 26 A3A | JET, LUBE ASSY N1                      |
| 26 A3B | JET, LUBE ASSY N2                      |
| 26 A3C | JET, LUBE ASSY N4                      |
| 26 A3D | JET, LUBE ASSY N5                      |
| 26 A3E | JET, LUBE ASSY N6                      |
| 26 A3F | JET, LUBE ASSY N7                      |
| 26 A3G | JET, LUBE ASSY N8                      |
| 26 A3H | JET, LUBE ASSY N9                      |
| 26 A3J | JET, LUBE ASSY N10                     |
| 26 A3K | JET, LUBE ASSY N11                     |
| 26 A3L | JET, LUBE ASSY N12                     |
| 26 A3M | JET, LUBE ASSY N13                     |
| 26 A3N | JET, LUBE ASSY N14                     |
| 26 A3P | JET, LUBE ASSY N15                     |
| 26 A3Q | JET, LUBE ASSY N16                     |

**26-002**

WORK  
UNIT  
CODE

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|        |  |
|--------|--|
| 26 000 | ROTOR DRIVE                                    |
| 26 A40 | MAIN GEARBOX OIL FILLER NECK                   |
| 26 A50 | MAIN GEARBOX UPPER MODULE COOLER ADAPTER       |
| 26 A60 | * CASE, TOP ASSY (TCI)                         |
| 26 A70 | MAST, SUPERFINISHED PLANETAR                   |
| 26 A80 | * CASE, MAIN ASSY (TCI)                        |
| 26 A90 | * LEFT/RIGHT INPUT SHAFT MODULE ASSEMBLY (TCI) |
| 26 A99 | NOC  |
| 26 B00 | MAIN GEARBOX MOUNTING                          |
| 26 BA0 | * FORWARD LEFT UPPER FITTING (TCI)             |
| 26 BB0 | * AFT LEFT UPPER FITTING (TCI)                 |
| 26 BC0 | * FORWARD RIGHT UPPER FITTING (TCI)            |
| 26 BD0 | * AFT RIGHT UPPER FITTING (TCI)                |
| 26 BE0 | * FORWARD LEFT ROD                             |
| 26 BF0 | * AFT LEFT ROD                                 |
| 26 BG0 | * FORWARD RIGHT ROD                            |
| 26 BH0 | * AFT RIGHT ROD                                |
| 26 BJ0 | * FORWARD LEFT FITTING                         |
| 26 BK0 | * AFT LEFT FITTING                             |
| 26 BL0 | * FORWARD RIGHT FITTING                        |
| 26 BM0 | * AFT RIGHT FITTING                            |
| 26 BN0 | * ANTITORQUE BEAM (TCI)                        |
| 26 BP0 | * BOLT FIXING ANTITORQUE (TCI)                 |
| 26 B99 | NOC  |
| 26 C00 | * MAIN GEARBOX FAN AND RADIATOR ASSEMBLY (TCI) |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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|        |                                    |
|--------|------------------------------------|
| 26 000 | ROTOR DRIVE                        |
| 26 CA0 | * OIL COOLER                       |
| 26 CB0 | * FAN (TCI)                        |
| 26 CBA | FAN BRACKET                        |
| 26 C99 | NOC                                |
| 26 D00 | * DRIVESHAFT ASSEMBLY (TCI)        |
| 26 DA0 | * NUMBER 1 DRIVE SHAFT             |
| 26 DB0 | * NUMBER 2 DRIVE SHAFT             |
| 26 DC0 | * NUMBER 3 DRIVE SHAFT             |
| 26 DD0 | * NUMBER 1 FLEXIBLE COUPLING (TCI) |
| 26 DE0 | * NUMBER 2 FLEXIBLE COUPLING (TCI) |
| 26 DF0 | * NUMBER 3 FLEXIBLE COUPLING (TCI) |
| 26 DG0 | * NUMBER 4 FLEXIBLE COUPLING (TCI) |
| 26 DH0 | * NUMBER 5 FLEXIBLE COUPLING (TCI) |
| 26 DJ0 | NUMBER 1 DAMPER                    |
| 26 DK0 | NUMBER 2 DAMPER                    |
| 26 DL0 | * BEARING SUPPORT                  |
| 26 D99 | NOC                                |
| 26 E00 | * INTERMEDIATE GEAR BOX (TCI)      |
| 26 EA0 | * INPUT SLIDING ADAPTER (TCI)      |
| 26 EB0 | * OUTPUT SLIDING ADAPTER (TCI)     |
| 26 EC0 | NUMBER 1 BOROSCOPE PORT PLUG       |
| 26 ED0 | NUMBER 2 BOROSCOPE PORT PLUG       |
| 26 EE0 | OIL LEVEL GLASS                    |
| 26 EF0 | OIL LEVEL INDICATOR                |

26-004

WORK  
UNIT  
CODE

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26 000 ROTOR DRIVE  
26 EG0 OUTPUT SLIDING ADAPTER VENT SHIELD  
26 EH0 INPUT MODULE SEAL  
26 EJ0 OUTPUT MODULE SEAL  
26 EK0 \* CENTER HOUSING ASSY (TCI)  
26 EL0 \* INPUT HOUSING ASSY (TCI)  
26 EM0 OUTPUT HOUSING ASSY  
26 E99 NOC  
26 F00 \* TAIL GEARBOX (TCI)  
26 FA0 \* INPUT SLIDING ADAPTER (TCI)  
26 FB0 BREATHER  
26 FC0 NUMBER 1 BOROSCOPE PORT PLUG  
26 FD0 NUMBER 2 BOROSCOPE PORT PLUG  
26 FE0 OIL LEVEL GLASS  
26 FF0 OIL LEVEL INDICATOR  
26 FG0 INPUT HOUSING SEAL  
26 FH0 OUTPUT HOUSING SEAL  
26 FJ0 CENTER HOUSING SEAL  
26 FK0 \* OUTPUT HOUSING ASSY (TCI)  
26 FL0 \* CENTER HOUSING ASSY (TCI)  
26 FM0 INPUT HOUSING ASSY  
26 F99 NOC  
26 G00 MAIN GEARBOX INDICATING SYSTEM  
26 GA0 LEFT CHIP DETECTOR  
26 GAA DETECTOR DEBRIS VALVE

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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## 26 000 ROTOR DRIVE

26 GAB DETECTOR DEBRIS SENSOR

## 26 GB0 RIGHT CHIP DETECTOR

26 GBA DETECTOR DEBRIS VALVE

26 GBB DETECTOR DEBRIS SENSOR

## 26 GC0 TOPCHIP DETECTOR

26 GCA DETECTOR DEBRIS VALVE

26 GCB DETECTOR DEBRIS SENSOR

## 26 GD0 CHIP DETECTOR POWER MODULE

26 GE0 OIL TEMPERATURE SENSOR

26 GF0 OIL PRESSURE SENSOR

26 GG0 ROTOR SPEED SENSOR

26 GH0 OIL LOW LEVEL SENSOR

26 GJ0 NUMBER 1 OIL PRESSURE SWITCH

26 GK0 NUMBER 2 OIL PRESSURE SWITCH

26 GL0 NUMBER 1 BEARING TEMPERATURE SENSOR

26 GM0 NUMBER 2 BEARING TEMPERATURE SENSOR

26 GN0 OIL FILTER CLOGGED SWITCH

26 G98 WIRING

26 G99 NOC

26 H00 INTERMEDIATE GEARBOX INDICATING SYSTEM

26 HA0 OIL TEMPERATURE SENSOR

26 HB0 OIL LOW LEVEL SENSOR

26 HC0 CHIP DETECTOR ASSEMBLY

26 HCA DETECTOR DEBRIS VALVE

**26-006**

**WORK  
UNIT  
CODE**

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**26 000 ROTOR DRIVE**

26 HCB            DETECTOR DEBRIS SENSOR  
26 H98            WIRING  
26 H99            NOC  
26 J00            TAIL GEARBOX INDICATING SYSTEM  
26 JA0            OIL TEMPERATURE SENSOR  
26 JB0            OIL LOW LEVEL SENSOR  
26 JC0            CHIP DETECTOR ASSEMBLY  
26 JCA            DETECTOR DEBRIS VALVE  
26 JCB            DETECTOR DEBRIS SENSOR  
26 J98            WIRING  
26 J99            NOC



# ICE AND RAIN PROTECTION

39000 - *Ice and rain protection*

WORK  
UNIT  
CODE

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|        |                                  |
|--------|----------------------------------|
| 39 000 | ICE AND RAIN PROTECTION          |
| 39 A00 | ANTI-ICE SYSTEM                  |
| 39 AA0 | * LIPS STATUS PANEL              |
| 39 AB0 | * NO. 1 ICE DETECTOR CONTROL BOX |
| 39 AC0 | * NO. 2 ICE DETECTOR CONTROL BOX |
| 39 AD0 | * NO. 1 ICE DETECTOR PROBE       |
| 39 AE0 | * NO. 2 ICE DETECTOR PROBE       |
| 39 AF0 | NO. 1 LIPS CONTROL BOX           |
| 39 AG0 | * NO. 1 PRESSURE SWITCH          |
| 39 AH0 | * NO. 2 PRESSURE SWITCH          |
| 39 AJ0 | NO. 1 AIR FILTER                 |
| 39 AK0 | NO. 2 AIR FILTER                 |
| 39 AL0 | * NO. 1 SHUT OFF VALVE (TCI)     |
| 39 AM0 | INSULATED TUBE                   |
| 39 AN0 | * NO. 2 SHUT OFF VALVE (TCI)     |
| 39 AP0 | INSULATED TUBE                   |
| 39 AQ0 | NO. 1 TWO WAY FITTING            |
| 39 AR0 | NO. 2 TWO WAY FITTING            |
| 39 A98 | WIRING                           |
| 39 A99 | NOC                              |
| 39 B00 | WINDSHIELD ANTI-ICE SYSTEM       |
| 39 BA0 | RELAY K277                       |
| 39 BB0 | RELAY K276                       |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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|        |                                  |
|--------|----------------------------------|
| 39 000 | ICE AND RAIN PROTECTION          |
| 39 BC0 | RELAY K240                       |
| 39 BD0 | RELAY K244                       |
| 39 BE0 | RELAY K278                       |
| 39 BF0 | RELAY K279                       |
| 39 B98 | WIRING                           |
| 39 B99 | NOC                              |
| 39 C00 | WINDSHIELD WIPER SYSTEM          |
| 39 CA0 | WIPER BLADE                      |
| 39 CB0 | LEFT WIPER ARM                   |
| 39 CC0 | RIGHT WIPER ARM                  |
| 39 CD0 | * LEFT WIPER MOTOR CONVERTER     |
| 39 CE0 | * RIGHT WIPER MOTOR CONVERTER    |
| 39 CF0 | * WINDSHIELD WIPER CONTROL PANEL |
| 39 C98 | WIRING                           |
| 39 C99 | NOC                              |

39-002

**ENVIRONMENTAL**41000 - *Environmental*WORK  
UNIT  
CODE

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|        |   |
|--------|---|
| 41 000 | ENVIRONMENTAL                           |
| 41 A00 | DISTRIBUTION                            |
| 41 AA0 | * VENTILATION CONTROL PANEL             |
| 41 AB0 | AIR PRESSURE RELIEF VALVE               |
| 41 AC0 | NUMBER 1 COCKPIT FLAPPER VALVE          |
| 41 AD0 | NUMBER 2 COCKPIT FLAPPER VALVE          |
| 41 AE0 | NUMBER 1 COCKPIT FAN                    |
| 41 AF0 | NUMBER 2 COCKPIT FAN                    |
| 41 AG0 | CABIN FLAPPER VALVE                     |
| 41 AH0 | TOP LEFT INSTRUMENT PANEL AIR VALVE     |
| 41 AJ0 | BOTTOM LEFT INSTRUMENT PANEL AIR VALVE  |
| 41 AK0 | TOP RIGHT INSTRUMENT PANEL AIR VALVE    |
| 41 AL0 | BOTTOM RIGHT INSTRUMENT PANEL AIR VALVE |
| 41 AM0 | CABIN FAN                               |
| 41 AN0 | BASIC VENTILATION ASSEMBLY              |
| 41 ANA | RIGHT HAND UPPER COCKPIT DIFFUSER       |
| 41 ANB | LEFT HAND UPPER COCKPIT DIFFUSER        |
| 41 ANC | RIGHT HAND LOWER COCKPIT DIFFUSER       |
| 41 AND | LEFT HAND LOWER COCKPIT DIFFUSER        |
| 41 ANE | LEFT HAND DIFFUSER                      |
| 41 ANF | RIGHT HAND DIFFUSER                     |
| 41 AP0 | RIGID DUCT LH                           |
| 41 AQ0 | CABIN INLET                             |

# **TO 1H-139(M)A-06-1**

## **WORK UNIT CODE**

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**41 000 ENVIRONMENTAL**

41 AR0        **WATER SEPARATOR ASSY**

41 AS0        **FLEXIBLE DUCT LH**

41 AT0        **RIGID DUCT RH UPPER**

41 AU0        **RIGID DUCT RH LOWER**

41 AV0        **PLENUM CKPT**

41 AW0        **PLENUM CKPT RH INT**

41 AX0        **INLET DUCT WATER SEPARATION**

41 AY0        **FLEXIBLE DUCT RH**

**41 AZ0 COCKPIT VENTILATION**

41 AZA        Y BRANCH ASSEMBLY

41 AZB        DUCT ASSY RH

41 AZC        DUCT ASSY LH

**41 A10 CABIN ROOF INSTALLATION**

41 A1A        GASPER DUCT ASSY FWD

41 A1B        GASPER DUCT ASSY MID

41 A1C        GASPER DUCT ASSY AFT

41 A1D        MANIFOLD REWORKED

41 A1E        VENTILATION COVER AFT

41 A1F        VENTILATION COVER REAR

41 A1G        HOSE,AIR DUCT LH

41 A1H        HOSE,AIR DUCT RH

41 A1J        FLEXIBLE DUCT

**41 A98 WIRING**

**41 A99 NOC**

WORK  
UNIT  
CODE

---

41 000 ENVIRONMENTAL  
41 B00 HEATING SYSTEM  
41 BA0 HEATING CONTROL PANEL  
41 BB0 \* NUMBER 1 SHUTOFF VALVE  
41 BC0 \* NUMBER 2 SHUTOFF VALVE  
41 BD0 NOISE ATTENUATOR  
41 BE0 \* VENTURI DUCT  
41 BF0 AIR INTAKE DUCT  
41 BG0 \* NUMBER 1 CHECK VALVE  
41 BH0 \* NUMBER 2 CHECK VALVE  
41 BJ0 \* TEMPURATURE CONTROL VALVE  
41 BK0 \* TEMPERATURE SWITCH  
41 BL0 \* TEMPERATURE SENSOR  
41 BM0 \* HEATING CONTROL BOX  
41 BN0 FORWARD LEFT BOTTOM COCKPIT AIR VALVE  
41 BP0 AFT LEFT BOTTOM COCKPIT AIR VALVE  
41 BQ0 FORWARD RIGHT BOTTOM COCKPIT AIR VALVE  
41 BR0 AFT RIGHT BOTTOM COCKPIT AIR VALVE  
41 BS0 LEFT FLEXIBLE DUCT  
41 BT0 RIGHT FLEXIBLE DUCT  
41 B98 WIRING  
41 B99 NOC  
**41 C00 HEATING SYSTEM**  
**41 CA0 HEATING CONTROL PANEL**  
**41 CB0 ECS CONTROLLER**

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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41 000 ENVIRONMENTAL

41 CC0 CABIN FAN

41 CD0 WATER SEPARATOR

41 CE0 CABIN FLAPPER VALVE

41 CF0 CABIN TEMPERATURE SENSOR

41 CG0 NUMBER 1 COCKPIT FLAPPER VALVE

41 CH0 NUMBER 2 COCKPIT FLAPPER VALVE

41 CJ0 NUMBER 1 COCKPIT FAN

41 CK0 NUMBER 2 COCKPIT FAN

41 CL0 COCKPIT TEMPERATURE SENSOR

41 CM0 NUMBER 1 SHUTOFF VALVE

41 CN0 NUMBER 2 SHUTOFF VALVE

41 CP0 EJECTOR VALVE

41 CPA TEMPERATURE SENSOR (EJECTOR VALVE)

41 CQ0 MUFFLER

41 CR0 NUMBER 1 INSULATED TUBE (FITTING-TO-HEATING SHUT OFF VALVE)

41 CS0 NUMBER 2 INSULATED TUBE (FITTING-TO-HEATING SHUT OFF VALVE)

41 C98 WIRING

41 C99 NOC

41 D00 INTEGRATED ENVIRONMENTAL CONTROL SYSTEM

41 DA0 ECS CONTROL PANEL

41 DB0 COMPRESSOR PACK

41 DBA CLUTCHES

41 DBB BEARINGS

41-004

WORK  
UNIT  
CODE

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## 41 000 ENVIRONMENTAL

|        |   |
|--------|---|
| 41 DBC | DRIVE BELTS COVER                             |
| 41 DBD | DRIVE BELTS                                   |
| 41 DBE | CABIN COMPRESSOR                              |
| 41 DBF | COCKPIT COMPRESSOR                            |
| 41 DC0 | <b>CONDENSER ASSEMBLY</b>                     |
| 41 DCA | CONDENSER FAN                                 |
| 41 DCB | * FRONT PANEL (TCI)                           |
| 41 DCC | CONDENSER                                     |
| 41 DD0 | <b>CABIN EVAPORATOR MODULE</b>                |
| 41 DDA | NUMBER 1 HIGH PRESSURE TRANSDUCER             |
| 41 DDB | NUMBER 2 HIGH PRESSURE TRANSDUCER             |
| 41 DDC | NUMBER 1 RECIEVER DRYER                       |
| 41 DDD | NUMBER 2 RECIEVER DRYER                       |
| 41 DDE | EXPANSION VALVE                               |
| 41 DDF | LOW PRESSURE TRANSDUCER                       |
| 41 DDG | LEFT SUPPORT                                  |
| 41 DDH | RIGHT SUPPORT                                 |
| 41 DE0 | <b>CABIN FAN</b>                              |
| 41 DF0 | <b>CABIN FLAPPER VALVE</b>                    |
| 41 DG0 | <b>NUMBER 1 COCKPIT EVAPORATOR ASSEMBLY</b>   |
| 41 DGA | LOW PRESSURE TRANSDUCER                       |
| 41 DH0 | <b>NUMBER 2 COCKPIT EVAPORATOR ASSEMBLY</b>   |
| 41 DJ0 | <b>REMOTE CONTROLLED CIRCUIT BREAKER S313</b> |
| 41 DK0 | <b>REMOTE CONTROLLED CIRCUIT BREAKER S314</b> |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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41 000 ENVIRONMENTAL

41 DM0 RELAY K27

41 DN0 RELAY K28

41 DP0 LEFT/RIGHT CONDENSER DAMPER ASSEMBLY

41 DPA UPPER SUPPORT

41 DPB SHOCK ABSORBER

41 DPC LOWER SUPPORT (LH)

41 DPD LOWER SUPPORT (RH)

41 D98 WIRING

41 D99 NOC

41-006

# ELECTRICAL POWER

42000 - *Electrical power*

WORK  
UNIT  
CODE

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|        |                                   |
|--------|-----------------------------------|
| 42 000 | ELECTRICAL POWER                  |
| 42 A00 | BATTERY POWER GENERATION          |
| 42 AA0 | * MAIN BATTERY                    |
| 42 AB0 | * AUXILIARY BATTERY               |
| 42 AC0 | MAIN BATTERY SHUNT                |
| 42 AD0 | AUXILIARY BATTERY SHUNT           |
| 42 AE0 | MAIN BATTERY RELAY K1             |
| 42 AF0 | MAIN BATTERY RELAY K3             |
| 42 AG0 | AUXILIARY BATTERY RELAY K2        |
| 42 AH0 | DIODE CR5                         |
| 42 AJ0 | DIODE CR114                       |
| 42 AK0 | DIODE MODULE A76                  |
| 42 AL0 | DIODE MODULE A77                  |
| 42 AM0 | NUMBER 1 POWER DISTRIBUTION PANEL |
| 42 AN0 | NUMBER 2 POWER DISTRIBUTION PANEL |
| 42 A98 | WIRING                            |
| 42 A99 | NOC                               |
| 42 B00 | AC GENERATION                     |
| 42 BA0 | * AC GENERATOR ( <b>TCI</b> )     |
| 42 BB0 | AC GENERATOR CONTROL              |
| 42 BC0 | * POWER DISTRIBUTION UNIT         |
| 42 BD0 | COVER                             |
| 42 BE0 | SUPPORT                           |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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|        |  |
|--------|--|
| 42 000 | ELECTRICAL POWER                         |
| 42 B98 | WIRING                                   |
| 42 B99 | NOC                                      |
| 42 C00 | DC GENERATION                            |
| 42 CA0 | * NO. 1 STARTER GENERATOR ( <b>TCI</b> ) |
| 42 CAA | BRUSH SET                                |
| 42 CB0 | * NO. 2 STARTER GENERATOR ( <b>TCI</b> ) |
| 42 CBA | BRUSH SET                                |
| 42 CC0 | * NO. 1 GENERATOR CONTROL UNIT           |
| 42 CD0 | * NO. 2 GENERATOR CONTROL UNIT           |
| 42 CE0 | NO. 1 SHUNT                              |
| 42 CF0 | NO. 2 SHUNT                              |
| 42 CG0 | NO. 1 STARTER GENERATOR MOUNT FLANGE     |
| 42 CH0 | NO. 2 STARTER GENERATOR MOUNT FLANGE     |
| 42 CJ0 | NO. 1 TRANSFORMER                        |
| 42 CK0 | NO. 2 TRANSFORMER                        |
| 42 C98 | WIRING                                   |
| 42 C99 | NOC                                      |
| 42 D00 | EXTERNAL POWER                           |
| 42 DA0 | EXTERNAL POWER RECEPTACLE                |
| 42 D98 | WIRING                                   |
| 42 D99 | NOC                                      |
| 42 E00 | PANEL                                    |
| 42 EA0 | OVERHEAD CIRCUIT BREAKER PANEL           |
| 42 EAA | ESSENTIAL BUS                            |

42-002

**WORK  
UNIT  
CODE**

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**42 000 ELECTRICAL POWER**

42 EAB            NON-ESSENTIAL BUS

42 EAC            MAIN BUS

**42 EB0 AUX OVERHEAD CIRCUIT BREAKER PANEL**

42 EBA            MAIN BUS

**42 EC0 LIPS CIRCUIT BREAKER UTILITY PANEL**

42 ECA            ESSENTIAL BUS

42 ECB            MAIN BUS

**42 ED0 ASE CIRCUIT BREAKER PANEL**

42 EDA            ESSENTIAL BUS

**42 EE0 ELECTRICAL CONTROL PANEL**

**42 E98 WIRING**

**42 E99 NOC**



**LIGHTING***44000 - Lighting*WORK  
UNIT  
CODE

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|          |                              |
|----------|------------------------------|
| 44 000   | LIGHTING                     |
| 44 A00   | COCKPIT                      |
| 44 AA0   | No. 1 POWER SUPPLY           |
| 44 AB0   | No. 2 POWER SUPPLY           |
| 44 AC0   | No. 3 POWER SUPPLY           |
| 44 AD0   | No. 4 POWER SUPPLY           |
| 44 AE0   | DOME LIGHT                   |
| 44 AF0   | TRANSISTOR MODULE Q1         |
| 44 AG0   | LEFT UTILITY LIGHT           |
| 44 AH0   | RIGHT UTILITY LIGHT          |
| 44 AJ0   | LEFT STORM LIGHT             |
| 44 AK0   | RIGHT STORM LIGHT            |
| 44 AL0 * | LIGHT DIMMER PANEL           |
| 44 AM0   | THERMOMETER LIGHT            |
| 44 AN0   | VNE PANEL                    |
| 44 A98   | WIRING                       |
| 44 A99   | NOC                          |
| 44 B00   | CABIN                        |
| 44 BA0   | CABIN LIGHTING CONTROL PANEL |
| 44 BB0   | CABIN LIGHT DIMMER UNIT      |
| 44 BC0   | NVG CABIN LIGHT ASSY         |
| 44 BD0   | RELAY K109                   |
| 44 BE0   | POWER SUPPLY                 |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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|        |   |
|--------|---|
| 44 000 | LIGHTING                                  |
| 44 BF0 | ADVISORY LIGHT ASSEMBLY                   |
| 44 B98 | WIRING                                    |
| 44 B99 | NOC                                       |
| 44 C00 | BAGGAGE AREA                              |
| 44 CA0 | FORWARD BAGGAGE COMPARTMENT LIGHT         |
| 44 CB0 | MIDDLE BAGGAGE COMPARTMENT LIGHT          |
| 44 CC0 | AFT BAGGAGE COMPARTMENT LIGHT             |
| 44 CD0 | LEFT BAGGAGE COMPARTMENT MICROSWITCH      |
| 44 CE0 | RIGHT BAGGAGE COMPARTMENT MICROSWITCH     |
| 44 C98 | WIRING                                    |
| 44 C99 | NOC                                       |
| 44 D00 | EXTERIOR                                  |
| 44 DA0 | * LIGHTS AND LANDING LIGHTS CONTROL PANEL |
| 44 DB0 | EXTERNAL LIGHTS CONTROL PANEL             |
| 44 DC0 | LEFT POSITION LIGHT                       |
| 44 DD0 | RIGHT POSITION LIGHT                      |
| 44 DE0 | TAIL POSITION LIGHT                       |
| 44 DF0 | RESCUE HOIST LIGHT                        |
| 44 DG0 | RELAY K64                                 |
| 44 DH0 | * DUAL MODE STEERABLE LANDING LIGHT       |
| 44 DJ0 | IR FORMATION LIGHTS                       |
| 44 DK0 | LEFT FORMATION LIGHT                      |
| 44 DL0 | RIGHT FORMATION LIGHT                     |
| 44 DM0 | LEFT FORMATION LIGHT SUPPORT              |

44-002

**WORK  
UNIT  
CODE**

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**44 000      LIGHTING**  
**44 DN0      RIGHT FORMATION LIGHT SUPPORT**  
**44 DP0      ANTI-COLLISION LIGHT**  
**44 DQ0      SWITCH S400**  
**44 D98      WIRING**  
**44 D99      NOC**  
**44 E00      EMERGENCY**  
**44 EA0    \*      EMERGENCY POWER SUPPLY**  
**44 EAA    \*      BATTERY PACK (TCI)**  
**44 EB0      EMERGENCY LIGHT**  
**44 E98      WIRING**  
**44 E99      NOC**



# HYDRAULIC AND PNEUMATIC POWER

45000 - *Hydraulic and pneumatic power*

WORK  
UNIT  
CODE

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45 000 HYDRAULIC AND PNEUMATIC POWER

45 A00 MAIN HYDRAULIC POWER

45 AA0 \* NO. 1 POWER CONTROL MODULE (TCI)

45 AAA PRESSURE TRANSDUCER J1

45 AAB PRESSURE FILTER

45 AAC RETURN FILTER

45 AAD PRESSURE SWITCH J3

45 AAE PRESSURE SWITCH J7

45 AAF PRESSURE SWITCH J11

45 AAG PRESSURE SWITCH J9

45 AAH PRESSURE SWITCH J5

45 AAJ PRESSURE SWITCH J6

45 AAK TEMPERATURE SWITCH J4

45 AAL TEMPERATURE SENSOR J2

45 AAM BLEED VALVE

45 AAN FLUID LEVEL INDICATING SIGHT GLASS

45 AAP FLUID LEVEL INDICATOR

45 AAQ CASE DRAIN DIFFERENTIAL PRESSURE INDICATOR

45 AAR CHECK VALVE

45 AAS FIRE PROTECTION SLEEVE

45 AB0 \* NO. 2 POWER CONTROL MODULE (TCI)

45 ABA PRESSURE TRANSDUCER J1

45 ABB PRESSURE FILTER

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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|               |  |
|---------------|--|
| <b>45 000</b> | <b>HYDRAULIC AND PNEUMATIC POWER</b>       |
| 45 ABC        | RETURN FILTER                              |
| 45 ABD        | PRESSURE SWITCH J3                         |
| 45 ABE        | PRESSURE SWITCH J7                         |
| 45 ABF        | PRESSURE SWITCH J11                        |
| 45 ABG        | PRESSURE SWITCH J9                         |
| 45 ABH        | PRESSURE SWITCH J5                         |
| 45 ABJ        | PRESSURE SWITCH J6                         |
| 45 ABK        | TEMPERATURE SWITCH J4                      |
| 45 ABL        | TEMPERATURE SENSOR J2                      |
| 45 ABM        | BLEED VALVE                                |
| 45 ABN        | FLUID LEVEL INDICATING SIGHT GLASS         |
| 45 ABP        | FLUID LEVEL INDICATOR                      |
| 45 ABQ        | CASE DRAIN DIFFERENTIAL PRESSURE INDICATOR |
| 45 ABR        | CHECK VALVE                                |
| 45 ABS        | FIRE PROTECTION SLEEVE                     |
| <b>45 AC0</b> | <b>*</b> <b>NO.1 HYDRAULIC PUMP</b>        |
| <b>45 AD0</b> | <b>*</b> <b>NO.2 HYDRAULIC PUMP</b>        |
| <b>45 AE0</b> | <b>*</b> <b>NO.4 HYDRAULIC PUMP</b>        |
| <b>45 AF0</b> | <b>HYDRAULIC LINES AND HOSES</b>           |
| <b>45 AG0</b> | <b>*</b> <b>TAIL SHUTOFF VALVE</b>         |
| <b>45 AH0</b> | <b>RELAY K20</b>                           |
| <b>45 AJ0</b> | <b>DUST COVER (PRESSURE SWITCH J5)</b>     |
| <b>45 AK0</b> | <b>DUST COVER (PRESSURE SWITCH J6)</b>     |
| <b>45 AL0</b> | <b>*</b> <b>HYDRAULIC CONTROL PANEL</b>    |

**45-002**

WORK  
UNIT  
CODE

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45 000 HYDRAULIC AND PNEUMATIC POWER  
45 A98 WIRING  
45 A99 NOC  
45 B00 AUXILIARY HYDRAULIC POWER  
45 BA0 \* ELECTRIC PUMP  
45 BB0 RELAY K15  
45 BC0 SENSING CONTROL SWITCH S57  
45 BD0 HYDRAULIC LINES AND HOSES  
45 B98 WIRING  
45 B99 NOC



**FUEL**

46000 - Fuel

WORK  
UNIT  
CODE

---

**46 000 FUEL****46 A00 STORAGE****46 AA0 \* NO. 1 FUEL TANK**

46 AAA WATER DRAIN VALVE

46 AAB DRAIN VALVE

46 AAC SIDE ACCESS PANEL

46 AAD TOP ACCESS PANEL

46 AAE SUMP ACCESS PANEL

46 AAF AUXILIARY CAP

46 AAG TANKS SUMP

**46 AB0 \* NO. 2 FUEL TANK**

46 ABA FILLER RING

46 ABB WATER DRAIN VALVE

46 ABC DRAIN VALVE

46 ABD SIDE ACCESS PANEL

46 ABE TOP ACCESS PANEL

46 ABF SUMP ACCESS PANEL

46 ABG AUXILIARY CAP

46 ABH TANKS SUMP

**46 AC0 FUEL VENT LINE AND HOSE**

46 ACA RIGHT VENTING HOSE

46 ACB HOSE

46 ACC RIGHT HAND VENTING LINE PIPE

# **TO 1H-139(M)A-06-1**

**WORK  
UNIT  
CODE**

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## **46 000 FUEL**

46 ACD            RIGHT VENTING LINE HOSE  
46 ACE            LEFT HAND VENTING LINE HOSE ASSY  
46 ACF            LEFT VENTING LINE PIPE  
46 ACG            LEFT VENTING PIPE  
46 ACH            RIGHT VENTING LINE PIPE  
46 ACJ            RIGHT VENTING PIPE

## **46 A99 NOC**

## **46 B00 DISTRIBUTION**

**46 BA0 FUEL DISTRIBUTION LINE AND HOSE**

46 BAA            FEEDING PIPE ASSEMBLY  
46 BAB            RIGHT FEEDING PIPE ASSEMBLY  
46 BAC            RETURN LINE HOSE  
46 BAD            LEFT FEEDING LINE HOSE  
46 BAE            RIGHT FEEDING LINE HOSE  
46 BAF            PIPE ASSEMBLY  
46 BAG            HOSE

**46 BB0 \***        **NO. 1 FLAME ARRESTOR**

**46 BC0 \***        **NO. 2 FLAME ARRESTOR**

**46 BD0 \***        **NO. 1 BOOSTER PUMP**

46 BDA            PUMP CARTRIDGE

**46 BE0 \***        **NO. 2 BOOSTER PUMP**

46 BEA            PUMP CARTRIDGE

**46 BF0**            **NO. 1 CHECK VALVE**

**46 BG0**            **NO. 2 CHECK VALVE**

**46-002**

WORK  
UNIT  
CODE

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|        |                                |
|--------|--------------------------------|
| 46 000 | FUEL                           |
| 46 BH0 | * FUEL MANIFOLD                |
| 46 BHA | PRESSURE TRANSDUCER            |
| 46 BJ0 | FUEL DRAIN LINE                |
| 46 BJA | PIPE ASSY                      |
| 46 BJB | DRAIN PIPE                     |
| 46 BK0 | FUEL FITTINGS                  |
| 46 BL0 | ADAPTER, PRESSURE REFUELLING   |
| 46 B98 | WIRING                         |
| 46 B99 | NOC                            |
| 46 C00 | INDICATION                     |
| 46 CA0 | NO. 1 PRESSURE SWITCH          |
| 46 CB0 | NO. 2 PRESSURE SWITCH          |
| 46 CC0 | * NO. 1 PRIMARY FUEL PROBE     |
| 46 CD0 | * NO. 2 PRIMARY FUEL PROBE     |
| 46 CE0 | * NO. 1 SECONDARY FUEL PROBE   |
| 46 CF0 | * NO. 2 SECONDARY FUEL PROBE   |
| 46 CG0 | FUEL RELAY K51                 |
| 46 C98 | WIRING                         |
| 46 C99 | NOC                            |
| 46 D00 | FUEL MANAGEMENT                |
| 46 DA0 | * FUEL CONTROL PANEL           |
| 46 DB0 | * FUEL CONTROL UNIT            |
| 46 DC0 | NO. 1 WATER DRAIN VALVE SWITCH |
| 46 DD0 | NO. 2 WATER DRAIN VALVE SWITCH |

# **TO 1H-139(M)A-06-1**

**WORK  
UNIT  
CODE**

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**46 000 FUEL**

**46 D98 WIRING**

**46 D99 NOC**

**46 E00 \* MAIN BAY FUEL TANK FOAM (TCI)**

**46 EA0 NO.1 FUEL TANK FOAM**

46 EAA LEFT FOAM,LEFT TANK

46 EAB RIGHT FOAM,LEFT TANK

46 EAC FORWARD FOAM,LEFT TANK

46 EAD REAR FOAM,LEFT TANK

46 EAE LEFT FOAM

46 EAF FOAM,LEFT SIDE

46 EAG FOAM SUMP

**46 EB0 NO.2 FUEL TANK FOAM**

46 EBA LEFT FOAM,RIGHT TANK

46 EBB RIGHT FOAM,RIGHT TANK

46 EBC FORWARD FOAM,RIGHT TANK

46 EBD REAR FOAM,RIGHT TANK

46 EBE RIGHT FOAM

46 EBF FOAM,RIGHT SIDE

46 EBG FOAM SUMP

**46 E99 NOC**

**46 F00 MANIFOLD BAY FOAM**

**46 FA0 FOAM REWORKED**

46 FAA FOAM

**46 FB0 FOAM LH**

**46-004**

**WORK  
UNIT  
CODE**

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|        |             |
|--------|-------------|
| 46 000 | <b>FUEL</b> |
| 46 FC0 | FOAM LH/RH  |
| 46 FD0 | FOAM LH     |
| 46 FE0 | FOAM LH     |
| 46 FF0 | FOAM LH     |
| 46 FG0 | FOAM LH/RH  |
| 46 FH0 | FOAM LH/RH  |
| 46 FJ0 | FOAM RH     |
| 46 FK0 | FOAM RH     |
| 46 FL0 | FOAM RH     |
| 46 FM0 | FOAM RH     |
| 46 FN0 | FOAM LH     |
| 46 FP0 | FOAM RH     |
| 46 FQ0 | FOAM RH     |
| 46 F99 | <b>NOC</b>  |



# INDICATING/RECORDING

48000 - *Indicating/Recording*

WORK  
UNIT  
CODE

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|        |   |
|--------|---|
| 48 000 | INDICATING/RECORDING                          |
| 48 A00 | CAUTION ADVISORY WARNING SYSTEM               |
| 48 AA0 | * PILOT MASTER CAUTION/ WARNING PANEL         |
| 48 AB0 | * COPILOT MASTER CAUTION/ WARNING PANEL       |
| 48 A98 | WIRING  |
| 48 A99 | NOC   |
| 48 B00 | INSTRUMENT AND CONTROL PANELS                 |
| 48 BA0 | MISCELLANEOUS CONTROL PANEL                   |
| 48 BB0 | TEST CONTROL PANEL                            |
| 48 BC0 | FIRE DETECTION/EXTINGUISHING PANEL            |
| 48 B98 | WIRING  |
| 48 B99 | NOC   |
| 48 C00 | EXTERNAL POWER RECEPTACLE ACCESS DOOR WARNING |
| 48 CA0 | EXTERNAL POWER RECEPTACLE ACCESS DOOR SWITCH  |
| 48 C98 | WIRING  |
| 48 C99 | NOC   |
| 48 D00 | BAGGAGE COMPARTMENT DOOR WARNING              |
| 48 DA0 | LEFT BAGGAGE COMPARTMENT DOOR MICROSWITCH     |
| 48 DB0 | RIGHT BAGGAGE COMPARTMENT DOOR MICROSWITCH    |
| 48 D98 | WIRING  |
| 48 D99 | NOC   |
| 48 E00 | CABIN DOOR WARNING                            |
| 48 EA0 | LEFT CABIN DOOR MICROSWITCH                   |

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WORK  
UNIT  
CODE

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48 000 INDICATING/RECORDING

48 EB0 RIGHT CABIN DOOR MICROSWITCH

48 E98 WIRING

48 E99 NOC

48 F00 COCKPIT DOOR WARNING

48 FA0 LEFT COCKPIT DOOR MICROSWITCH

48 FB0 RIGHT COCKPIT DOOR MICROSWITCH

48 F98 WIRING

48 F99 NOC

48-002

**MISCELLANEOUS UTILITIES***49000 - Miscellaneous utilities*WORK  
UNIT  
CODE

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|        |   |
|--------|---|
| 49 000 | MISCELLANEOUS UTILITIES   |
| 49 A00 | FIRE EXTINGUISHER SYSTEM  |
| 49 AA0 | * NUMBER 1 FIRE EXTINGUISHING BOTTLE (TCI)                      |
| 49 AB0 | NUMBER 1 CHECK TEE  |
| 49 AC0 | NUMBER 1 DISCHARGE INDICATOR                                    |
| 49 AD0 | NUMBER 1 BOTTLE BRACKET   |
| 49 AE0 | * NUMBER 2 FIRE EXTINGUISHING BOTTLE (TCI)                      |
| 49 AF0 | NUMBER 2 CHECK TEE  |
| 49 AG0 | NUMBER 2 DISCHARGE INDICATOR                                    |
| 49 AH0 | NUMBER 2 BOTTLE BRACKET   |
| 49 AJ0 | RELAY K43   |
| 49 AK0 | RELAY K44   |
| 49 AL0 | RELAY K45   |
| 49 AM0 | RELAY K46   |
| 49 AN0 | FIRE EXTINGUISHING TUBES  |
| 49 AP0 | FIRE EXTINGUISHING NOZZLES                                      |
| 49 A98 | WIRING  |
| 49 A99 | NOC   |
| 49 B00 | FIRE DETECTOR SYSTEM  |
| 49 BA0 | * NUMBER 1 ENGINE COMPARTMENT FIRE DETECTION<br>SENSING ELEMENT |
| 49 BB0 | * NUMBER 2 ENGINE COMPARTMENT FIRE DETECTION<br>SENSING ELEMENT |
| 49 BC0 | * BAGGAGE COMPARTMENT SMOKE DETECTOR                            |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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|        |                                    |
|--------|------------------------------------|
| 49 000 | MISCELLANEOUS UTILITIES            |
| 49 B98 | WIRING                             |
| 49 B99 | NOC                                |
| 49 C00 | CARGO HOOK SYSTEM                  |
| 49 CA0 | * CARGO HOOK <b>(TCI)</b>          |
| 49 CB0 | * SUPPORT FRAME <b>(TCI)</b>       |
| 49 CC0 | * CONTROL PANEL                    |
| 49 CD0 | * LOAD INDICATOR                   |
| 49 CE0 | RELAY K40                          |
| 49 C98 | WIRING                             |
| 49 C99 | NOC                                |
| 49 D00 | ARMOR                              |
| 49 DA0 | COCKPIT ARMOR                      |
| 49 DAA | NUMBER 1 LEFT COCKPIT ARMOR PLATE  |
| 49 DAB | NUMBER 2 LEFT COCKPIT ARMOR PLATE  |
| 49 DAC | NUMBER 1 RIGHT COCKPIT ARMOR PLATE |
| 49 DAD | NUMBER 2 RIGHT COCKPIT ARMOR PLATE |
| 49 DB0 | CABIN ARMOR                        |
| 49 DBA | FORWARD RIGHT CABIN ARMOR PLATE    |
| 49 DBB | FORWARD LEFT CABIN ARMOR PLATE     |
| 49 DBC | MIDDLE RIGHT CABIN ARMOR PLATE     |
| 49 DBD | MIDDLE LEFT CABIN ARMOR PLATE      |
| 49 DBE | AFT RIGHT CABIN ARMOR PLATE        |
| 49 DBF | AFT LEFT CABIN ARMOR PLATE         |
| 49 DC0 | COCKPIT SEAT ARMOR                 |

49-002

WORK  
UNIT  
CODE

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**49 000 MISCELLANEOUS UTILITIES**

49 DCA PILOT BACKSEAT PROTECTION PLATE  
49 DCB COPILOT BACKSEAT PROTECTION PLATE  
**49 DD0 BAGGAGE COMPARTMENT ARMOR**  
49 DDA MIDDLE FLOOR ARMOR PLATE  
**49 DE0 COCKPIT DOOR ARMOR**  
49 DEA LEFT ARMOR PANEL ASSEMBLY  
49 DEB RIGHT ARMOR PANEL ASSEMBLY  
**49 D99 NOC**  
**49 E00 EXTERNAL HOIST RESCUE SYSTEM**  
**49 EA0 \* RESCUE HOIST (TCI)**  
49 EAA HOOK ASSEMBLY  
49 EAB \* CABLE (TCI)  
49 EAC OIL LEVEL SIGHT GLASS  
**49 EB0 SHACKLE**  
**49 EC0 CABLE CUTTER**  
49 ECA CABLE CUTTER  
49 ECB CABLE CUTTER LOCK SPRING  
49 ECC CABLE CUTTER BAG  
49 ECD BASE  
**49 E98 WIRING**  
**49 E99 NOC**  
**49 F00 EXTERNAL HOIST RESCUE SYSTEM ELECTRICAL**  
**49 FA0 RESCUE HOIST POWER CONTROL PANEL**  
**49 FB0 RESCUE HOIST OPERATOR PANEL**

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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|        |  |
|--------|--|
| 49 000 | MISCELLANEOUS UTILITIES                                  |
| 49 FC0 | RESCUE HOIST CONTROL PENDANT                             |
| 49 FD0 | CONNECTOR SUPPORT  |
| 49 FE0 | * VARIABLE SPEED CONTROLLER                              |
| 49 FF0 | COVER  |
| 49 FG0 | RELAY K57  |
| 49 FH0 | RELAY K58  |
| 49 FJ0 | RELAY K59  |
| 49 FK0 | RELAY K60  |
| 49 FL0 | RELAY K61  |
| 49 FM0 | OVERLOAD CONTROL SENSOR S14                              |
| 49 FN0 | RELAY K162   |
| 49 F98 | WIRING   |
| 49 F99 | NOC  |
| 49 G00 | CIRCULAR FORCE ACTIVE VIBRATION CONTROL SYSTEM (CF-AVCS) |
| 49 GA0 | * AVCS CONTROL PANEL                                     |
| 49 GB0 | * AVCS CENTRAL CONTROLLER                                |
| 49 GC0 | * CIRCULAR FORCE GENERATOR (A483)                        |
| 49 GD0 | * CIRCULAR FORCE GENERATOR (A478)                        |
| 49 GE0 | ACCELEROMETER (MT58)                                     |
| 49 GF0 | ACCELEROMETER (MT60)                                     |
| 49 GG0 | ACCELEROMETER (MT62)                                     |
| 49 GH0 | ACCELEROMETER (MT69)                                     |
| 49 GJ0 | REMOTE CONTROL CIRCUIT BREAKER (S315)                    |
| 49 G98 | WIRING   |

49-004

**WORK  
UNIT  
CODE**

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|        |                         |
|--------|-------------------------|
| 49 000 | MISCELLANEOUS UTILITIES |
| 49 G99 | NOC                     |
| 49 H00 | WIRE STRIKE SYSTEM      |
| 49 HA0 | LEFT STRUT              |
| 49 HB0 | RIGHT STRUT             |
| 49 HC0 | LEFT STRUT AFT FITTING  |
| 49 HD0 | RIGHT STRUT AFT FITTING |
| 49 HE0 | STRUT TOP FITTING       |
| 49 HF0 | TOP TABLE CUTTER        |
| 49 HG0 | TOP DEFLECTOR           |
| 49 HH0 | CROSS BAR               |
| 49 HJ0 | LEFT QUICK RELEASE PIN  |
| 49 HK0 | RIGHT QUICK RELEASE PIN |
| 49 HL0 | LEFT DEFLECTOR FITTING  |
| 49 HM0 | RIGHT DEFLECTOR FITTING |
| 49 HN0 | WINDSHIELD DEFLECTOR    |
| 49 H99 | NOC                     |
| 49 J00 | FAST ROPE SYSTEM        |
| 49 JA0 | RIGHT AFT ARM ASSEMBLY  |
| 49 JAA | QUICK RELEASE PIN       |
| 49 JB0 | RIGHT AFT UPPER FITTING |
| 49 JC0 | RIGHT AFT SUPPORT       |
| 49 J99 | NOC                     |



**INSTRUMENTS**51000 - *Instruments*WORK  
UNIT  
CODE

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|        |  |
|--------|--|
| 51 000 | <b>INSTRUMENTS</b>                         |
| 51 A00 | PITOT-STATIC SYSTEM                        |
| 51 AA0 | * NO. 1 PITOT-STATIC PROBE                 |
| 51 AB0 | * NO. 2 PITOT-STATIC PROBE                 |
| 51 AC0 | NO. 1 STATIC SOURCE VALVE                  |
| 51 AD0 | NO. 2 STATIC SOURCE VALVE                  |
| 51 AE0 | TUBES                                      |
| 51 AF0 | FITTINGS                                   |
| 51 AG0 | DRAINS                                     |
| 51 AH0 | RELAY K55                                  |
| 51 AJ0 | RELAY K56                                  |
| 51 AK0 | * LEFT CURRENT MONITOR                     |
| 51 AL0 | * RIGHT CURRENT MONITOR                    |
| 51 A98 | WIRING                                     |
| 51 A99 | NOC  |
| 51 B00 | AIR DATA SYSTEM                            |
| 51 BA0 | * NO. 1 AIR DATA MODULE (ADM1)             |
| 51 BB0 | * NO. 2 AIR DATA MODULE (ADM2)             |
| 51 BC0 | * NO. 1 OUTSIDE AIR TEMPERATURE SENSOR     |
| 51 BD0 | NO. 2 OUTSIDE AIR TEMPERATURE SENSOR       |
| 51 B98 | WIRING                                     |
| 51 B99 | NOC  |
| 51 C00 | STANDBY ATTITUDE DIRECTOR INDICATOR SYSTEM |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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## 51 000 INSTRUMENTS

51 CA0 \* STANDBY ATTITUDE DIRECTOR INDICATOR

51 C98 WIRING

51 C99 NOC

## 51 D00 INDEPENDENT INSTRUMENTS

51 DA0 \* CLOCK (TCI)

51 DB0 \* MAGNETIC COMPASS

51 DC0 OUTSIDE AIR THERMOMETER

51 D98 WIRING

51 D99 NOC

## 51 E00 ALTITUDE HEADING REFERENCE SYSTEM

51 EA0 \* NO. 1 ALTITUDE HEADING REFERENCE UNIT

51 EB0 \* NO. 2 ALTITUDE HEADING REFERENCE UNIT

51 EC0 NO. 1 ALTITUDE HEADING REFERENCE UNIT MOUNTING TRAY

51 ED0 NO. 2 ALTITUDE HEADING REFERENCE UNIT MOUNTING TRAY

51 EE0 \* NO. 1 ALTITUDE HEADING REFERENCE UNIT CALIBRATION PROM

51 EF0 \* NO. 2 ALTITUDE HEADING REFERENCE UNIT CALIBRATION PROM

51 EG0 NO. 1 FLUX VALVE

51 EH0 NO. 2 FLUX VALVE

51 EJ0 \* NO. 1 COMPASS CONTROL PANEL

51 EK0 \* NO. 2 COMPASS CONTROL PANEL

51 E98 WIRING

51 E99 NOC

51-002

**AUTOFLIGHT**52000 - *Autoflight*WORK  
UNIT  
CODE

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|        |                                     |
|--------|-------------------------------------|
| 52 000 | AUTOFLIGHT                          |
| 52 A00 | FLIGHT DIRECTOR SYSTEM              |
| 52 AA0 | * GUIDANCE CONTROL PANEL            |
| 52 AB0 | PITCH TRIM ROD                      |
| 52 ABA | ROD END                             |
| 52 AC0 | PITCH TRIM LEVER                    |
| 52 AD0 | ROLL TRIM ROD                       |
| 52 ADA | ROD END                             |
| 52 AE0 | ROLL TRIM LEVER                     |
| 52 AF0 | COLLECTIVE TRIM ROD                 |
| 52 AFA | ROD END                             |
| 52 AG0 | COLLECTIVE TRIM LEVER               |
| 52 AH0 | YAW TRIM ROD                        |
| 52 AHA | ROD END                             |
| 52 AJ0 | YAW TRIM LEVER                      |
| 52 AK0 | PEDAL SWITCH (S71)                  |
| 52 AL0 | PEDAL SWITCH (S70)                  |
| 52 AM0 | PEDAL SWITCH (S69)                  |
| 52 AN0 | PEDAL SWITCH (S68)                  |
| 52 A98 | WIRING                              |
| 52 A99 | NOC                                 |
| 52 B00 | STABILITY AUGMENTATION SYSTEM (SAS) |
| 52 BA0 | * PITCH TRIM ACTUATOR               |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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52 000 AUTOFLIGHT  
52 BB0 \* ROLL TRIM ACTUATOR  
52 BC0 \* COLLECTIVE TRIM ACTUATOR  
52 BD0 \* YAW TRIM ACTUATOR  
52 B98 WIRING  
52 B99 NOC  
52 C00 DIGITAL AUTOMATIC FLIGHT CONTROL SYSTEM (DAFCS)  
52 CA0 \* AUTOPILOT CONTROL PANEL  
52 CB0 PITCH ACTUATOR ASSY  
52 CBA \* ACTUATOR(SMART LINEAR, PITCH)  
52 CBB ROD END  
52 CC0 ROD ASSY  
52 CD0 LEVER ASSY  
52 CE0 ROLL ACTUATOR ASSY  
52 CEA \* ACTUATOR (SMART LINEAR, ROLL)  
52 CEB ROD END  
52 CF0 ROD ASSY  
52 CG0 LEVER ASSY  
52 CH0 YAW ACTUATOR ASSY  
52 CHA \* ACTUATOR (SMART LINEAR, YAW)  
52 CHB ROD END  
52 CJ0 ROD ASSY  
52 CK0 LEVER ASSY  
52 CL0 YAW ACTUATOR BRACKET  
52 C98 WIRING

52-002

**WORK  
UNIT  
CODE**

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**52 000 AUTOFLIGHT**

**52 C99 NOC**

**52-003**



# MALFUNCTION ANALYSIS AND RECORDING EQUIPMENT

55000 - *Malfunction analysis and recording equipment*

WORK  
UNIT  
CODE

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|        |  |
|--------|--|
| 55 000 | MALFUNCTION ANALYSIS AND RECORDING EQUIPMENT |
| 55 A00 | CENTRAL MAINTENANCE SYSTEM (CMS)             |
| 55 AA0 | CENTRAL MAINTENANCE SYSTEM (CMS) MODULE      |
| 55 A98 | WIRING                                       |
| 55 A99 | NOC  |
| 55 B00 | FLIGHT DATA RECORDER SYSTEM                  |
| 55 BA0 | * COCKPIT CONTROL UNIT                       |
| 55 BB0 | * MULTI-PURPOSE FLIGHT RECORDER              |
| 55 BC0 | RELAY K22                                    |
| 55 BD0 | RELAY K23                                    |
| 55 BE0 | RELAY K26                                    |
| 55 B98 | WIRING                                       |
| 55 B99 | NOC  |
| 55 C00 | HEALTH AND USAGE MONITORING SYSTEM (HUMS)    |
| 55 CA0 | HEALTH AND USAGE MONITORING COMPUTER (HUMC)  |
| 55 CB0 | * DATA TRANSFER DEVICE (DTD)                 |
| 55 CC0 | RT-TIP-TRACK CAMERA                          |
| 55 CD0 | RT-TIPTRACK CAMERA SUPPORT                   |
| 55 CE0 | * ACCELEROMETER (MT13)                       |
| 55 CF0 | * ACCELEROMETER (MT23)                       |
| 55 CG0 | * ACCELEROMETER (MT24)                       |
| 55 CH0 | * ACCELEROMETER (MT25)                       |

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WORK  
UNIT  
CODE

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|        |  |
|--------|--|
| 55 000 | MALFUNCTION ANALYSIS AND RECORDING EQUIPMENT |
| 55 CJ0 | * ACCELEROMETER (MT26)                       |
| 55 CK0 | * ACCELEROMETER (MT27)                       |
| 55 CL0 | * ACCELEROMETER (MT28)                       |
| 55 CM0 | * ACCELEROMETER (MT29)                       |
| 55 CN0 | * ACCELEROMETER (MT30)                       |
| 55 CP0 | * ACCELEROMETER (MT31)                       |
| 55 CQ0 | * TACHOMETER (MT33)                          |
| 55 CR0 | * TACHOMETER (MT34)                          |
| 55 CS0 | * ACCELEROMETER (MT35)                       |
| 55 CT0 | * ACCELEROMETER (MT36)                       |
| 55 CU0 | * ACCELEROMETER (MT37)                       |
| 55 CV0 | MT35/MT37 ACCELEROMETER SUPPORT              |
| 55 CW0 | * ACCELEROMETER (MT38)                       |
| 55 CX0 | ACCELEROMETER (MT39)                         |
| 55 CY0 | VERTICAL LOAD ACCELEROMETER (MT40)           |
| 55 CZ0 | VERTICAL LOAD ACCELEROMETER SUPPORT          |
| 55 C10 | ACCELEROMETER (MT90)                         |
| 55 C20 | INTERRUPTOR                                  |
| 55 C30 | INTERRUPTOR BRACKET                          |
| 55 C40 | TACHOMETER SUPPORT                           |
| 55 C98 | WIRING                                       |
| 55 C99 | NOC  |

## VHF COMMUNICATION

62000 - VHF communication

WORK  
UNIT  
CODE

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62 000 VHF COMMUNICATION  
62 A00 NUMBER 1 VHF DATA RADIO (VDR) SYSTEM  
62 AA0 \* NUMBER 1 VDR MODULE  
62 AB0 \* NUMBER 1 VHF-COM ANTENNA  
62 A98 WIRING  
62 A99 NOC  
62 B00 NUMBER 2 VHF DATA RADIO (VDR) SYSTEM  
62 BA0 \* NUMBER 2 VDR MODULE  
62 BB0 \* NUMBER 2 VHF-COM ANTENNA  
62 B98 WIRING  
62 B99 NOC



# UHF COMMUNICATION

63000 - UHF communication

WORK  
UNIT  
CODE

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|        |                               |
|--------|-------------------------------|
| 63 000 | UHF COMMUNICATION             |
| 63 A00 | AN/ARC-210                    |
| 63 AA0 | * C12561B/ARC CONTROL PANEL   |
| 63 AB0 | * RT-1990A/ARC TRANSCEIVER    |
| 63 ABA | * BATTERY (TCI)               |
| 63 AC0 | * AMPLIFIER,RADIO FREQUENCY   |
| 63 AD0 | * LOGIC CONVERTER UNIT        |
| 63 AE0 | * DIPLEXER                    |
| 63 AF0 | * V/UHF TUNEABLE ANTENNA      |
| 63 AFA | UPPER ANTENNA                 |
| 63 AFB | LOWER ANTENNA                 |
| 63 AG0 | * ANTENNA SATCOM ARC210 BLACK |
| 63 AH0 | MOUNTING BASE, ELECTRICAL EQU |
| 63 AJ0 | UHF RADIO RF SWITCH (ARC 210) |
| 63 A98 | WIRING                        |
| 63 A99 | NOC                           |
| 63 B00 | V/UHF (RT7000 RMR)            |
| 63 BA0 | V/UHF CONTROL PANEL           |
| 63 BB0 | V/UHF TRANSCEIVER             |
| 63 BC0 | V/UHF ANTENNA                 |
| 63 BD0 | TRANSCEIVER SUPPORT           |
| 63 B98 | WIRING                        |
| 63 B99 | NOC                           |



# INTERCOMMUNICATION SYSTEM

64000 - *Intercommunication system*

WORK  
UNIT  
CODE

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|        |                                    |
|--------|------------------------------------|
| 64 000 | INTERCOMMUNICATION SYSTEM          |
| 64 A00 | INTERCOMMUNICATION SYSTEM          |
| 64 AA0 | * NO.1 AUDIO PANEL                 |
| 64 AB0 | * NO. 2 AUDIO PANEL                |
| 64 AC0 | * HOIST OPERATOR AUDIO PANEL       |
| 64 AD0 | * CABIN STATION 4 AUDIO PANEL      |
| 64 AE0 | NO. 1 FOOTSWITCH                   |
| 64 AF0 | NO. 2 FOOTSWITCH                   |
| 64 AG0 | RELAY                              |
| 64 AH0 | LOUD SPEAKER                       |
| 64 AJ0 | * LOUD SPEAKER AMPLIFIER           |
| 64 A98 | WIRING                             |
| 64 A99 | NOC                                |
| 64 B00 | CORDLESS INTERCOMMUNICATION SYSTEM |
| 64 BA0 | * INTERFACE UNIT                   |
| 64 BB0 | UHF ANTENNA                        |
| 64 BC0 | <b>CONTROL PANEL</b>               |
| 64 BD0 | <b>PORTABLE UNIT</b>               |
| 64 B98 | WIRING                             |
| 64 B99 | NOC                                |



**IDENTIFY FRIEND OR FOE (IFF) SYSTEM**65000 - *Identify Friend or Foe (IFF) system*WORK  
UNIT  
CODE

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|        |   |
|--------|---|
| 65 000 | IDENTIFICATION FRIEND OR FOE (IFF) SYSTEM |
| 65 A00 | IFF SYSTEM                                |
| 65 AA0 | * IFF CONTROL PANEL                       |
| 65 AB0 | * IFF TRANSPONDER                         |
| 65 AC0 | IFF TRANSPONDER TRAY                      |
| 65 AD0 | GPS APPLIQUE                              |
| 65 AE0 | KIV-77                                    |
| 65 AEA | * KIV-77 BATTERY (TCI)                    |
| 65 AF0 | GPS SPLITTER                              |
| 65 AG0 | IFF LEFT INDICATING LIGHT                 |
| 65 AH0 | IFF RIGHT INDICATING LIGHT                |
| 65 AJ0 | RELAY K397                                |
| 65 AK0 | RELAY K399                                |
| 65 AL0 | RELAY K400                                |
| 65 AM0 | RELAY K401                                |
| 65 AN0 | RELAY K402                                |
| 65 AP0 | RELAY K403                                |
| 65 AQ0 | RELAY K404                                |
| 65 AR0 | RELAY K405                                |
| 65 AS0 | POWER SUPPLY ADAPTER                      |
| 65 A98 | WIRING                                    |
| 65 A99 | NOC                                       |



## MISCELLANEOUS COMMUNICATIONS

69000 - *Miscellaneous communications*

WORK  
UNIT  
CODE

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69 000 MISCELLANEOUS COMMUNICATIONS  
69 A00 CRYPTO PANEL  
69 A98 WIRING  
69 A99 NOC  
69 B00 RELAY K391  
69 C00 RELAY K392  
69 D00 RELAY K393



# RADIO NAVIGATION

71000 - Radio navigation

WORK  
UNIT  
CODE

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|        |   |
|--------|---|
| 71 000 | RADIO NAVIGATION                          |
| 71 A00 | VOR/ILS DATA LINK (VIDL) SYSTEM           |
| 71 AA0 | * VIDL MODULE                             |
| 71 AB0 | * VOR/LOC ANTENNA                         |
| 71 AC0 | * GS ANTENNA                              |
| 71 AD0 | * MKR ANTENNA                             |
| 71 AE0 | * MB COUPLER                              |
| 71 AF0 | * VOR COUPLER                             |
| 71 AG0 | * GS COUPLER                              |
| 71 A98 | WIRING                                    |
| 71 A99 | NOC                                       |
| 71 B00 | DISTANCE MEASURING EQUIPMENT (DME) SYSTEM |
| 71 BA0 | * DME MODULE                              |
| 71 BB0 | DME ANTENNA                               |
| 71 B98 | WIRING                                    |
| 71 B99 | NOC                                       |
| 71 C00 | AUTOMATIC DIRECTION FINDER (ADF) SYSTEM   |
| 71 CA0 | * ADF MODULE                              |
| 71 CB0 | * ADF ANTENNA                             |
| 71 C98 | WIRING                                    |
| 71 C99 | NOC                                       |
| 71 D00 | TACAN                                     |
| 71 DA0 | * TACAN CONTROL HEAD                      |

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WORK  
UNIT  
CODE

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71 000      RADIO NAVIGATION  
71 DB0    \*      TACAN RECEIVER/TRANSMITTER  
71 DC0    \*      TACAN RECEIVER/TRANSMITTER MOUNT  
71 DD0    \*      TACAN BOTTOM ANTENNA  
71 DE0    \*      TACAN TOP ANTENNA  
71 DF0      ANTENNA SWITCH  
71 D98      WIRING  
71 D99      NOC  
71 E00      MOVING MAP SYSTEM  
71 EA0      PROCESSOR UNIT  
71 EB0    \*      CONTROL UNIT  
71 EC0    \*      SWITCHING UNIT  
71 ED0    \*      CONTROL PANEL  
71 EE0      MOUNTING TRAY SUPPORT  
71 E98      WIRING  
71 E99      NOC  
71 F00      NUMBER 1 GLOBAL POSITIONING SYSTEM (GPS)  
71 FA0    \*      GPS UNIT  
71 FB0    \*      **NUMBER 1 GPS ANTENNA**  
71 F98      WIRING  
71 F99      NOC  
71 G00      NUMBER 2 GLOBAL POSITIONING SYSTEM (GPS)  
71 GA0    \*      GPS UNIT  
71 GB0    \*      **NUMBER 2 GPS ANTENNA**  
71 G98      WIRING

71-002

WORK  
UNIT  
CODE

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71 000 RADIO NAVIGATION  
71 G99 NOC  
71 H00 MILITARY GPS SYSTEM  
71 HA0 \* GPS RECEIVER  
71 HB0 \* MIL-GPS ANTENNA  
71 HC0 GPS SPLITTER CP91  
71 HD0 RELAY K389  
71 HE0 RELAY K390  
71 HF0 GPS BATTERY BOX  
71 H98 WIRING  
71 H99 NOC  
71 J00 EGPWS  
71 JA0 \* EGPWS COMPUTER  
71 JB0 MK XXII EGPWS MOUNTING TRAY  
71 J98 WIRING  
71 J99 NOC  
71 K00 LIGHTNING SENSOR SYSTEM (LSS)  
71 KA0 LSS PROCESSOR  
71 KB0 LSS PROCESSOR MOUNTING TRAY  
71 KC0 LSS ANTENNA  
71 K98 WIRING  
71 K99 NOC



# RADAR NAVIGATION

72000 - Radar navigation

WORK  
UNIT  
CODE

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|        |   |
|--------|---|
| 72 000 | RADAR NAVIGATION                                    |
| 72 A00 | RADIO ALTIMETER SYSTEM                              |
| 72 AA0 | * RADIO ALTIMETER RECEIVER TRANSMITTER (RAD ALT RT) |
| 72 AB0 | RADIO ALTIMETER RECEIVER ANTENNA                    |
| 72 AC0 | RADIO ALTIMETER TRANSMIT ANTENNA                    |
| 72 A98 | WIRING  |
| 72 A99 | NOC   |
| 72 B00 | AIR TRAFFIC CONTROL TRANSPONDER (ATC XPDR) SYSTEM   |
| 72 BA0 | * ATC XPDR MODULE                                   |
| 72 BB0 | * ATC XPDR TOP ANTENNA                              |
| 72 BC0 | * ATC XPDR BOTTOM ANTENNA                           |
| 72 B98 | WIRING  |
| 72 B99 | NOC   |



**WEAPONS**

75000 - Weapons

WORK  
UNIT  
CODE

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|          |                                |
|----------|--------------------------------|
| 75 000   | <b>WEAPONS</b>                 |
| 75 A00   | <b>SOFTMOUNT ASSEMBLY</b>      |
| 75 AA0   | <b>BUFFERED MOUNT ASSEMBLY</b> |
| 75 AAA   | BUFFERING MECHANISM            |
| 75 AAB   | FORK ASSEMBLY                  |
| 75 AAC   | FLIGHT BAR                     |
| 75 AAD   | MOUNTING PLATE                 |
| 75 AAE   | HANDLE FRICTION                |
| 75 AAF * | YOKES ASSEMBLY                 |
| 75 AAG   | REAR MOUNTING PIN ASSY         |
| 75 AAH   | REAR MOUNTING PIN              |
| 75 AAJ   | REAR MOUNTING BLOCK            |
| 75 AAK   | RUN OUT SPRING                 |
| 75 AAL   | RECOIL SPRING                  |
| 75 AAM   | FRONT MOUNTING BLOCK           |
| 75 AAN   | FRONT MOUNTING PIN ASSY        |
| 75 AAP   | FRONT MOUNTING PIN             |
| 75 AAQ   | MAIN CRADLE ASSY               |
| 75 AAR   | CLAMP NUT ELEVATION LOCK       |
| 75 AAS   | ARC RESTRICTION WASHER         |
| 75 AB0   | <b>LINK CHUTE ASSEMBLY</b>     |
| 75 ABA   | LINK CHUTE FABRICATION         |
| 75 ABB   | LANYARD                        |

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**WORK  
UNIT  
CODE**

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## **75 000 WEAPONS**

**75 AC0 AMMUNITION BOX HOLDER ASSEMBLY**

75 ACA COVER PLATE

75 ACB HANDLE

75 ACC BUSH SLIDING

75 ACD TOP COVER ASSEMBLY

75 ACE CONTAINER ASSEMBLY

75 ACF LANYARD

## **75 AD0 LINK AND CASE COLLECTOR ASSEMBLY**

**75 A99 NOC**

**75 B00 WEAPON SUSPENSION**

**75 BA0 LEFT PINTLE ASSEMBLY**

**75 BB0 RIGHT PINTLE ASSEMBLY**

**75 BC0 M240 AMMO BAG INSERT (6D)**

**75 B99 NOC**

**75 C00 M240D GUN SYSTEM**

**75 CA0 \* GUN M240D**

**75 CB0 \* BARREL ASSEMBLY**

75 CBA \* FLASH HIDER/ SUPPRESSOR (TCI)

75 CBB \* BARREL (TCI)

75 CBC SELF-LOCKING FRONT SIGHT SCREW

75 CBD FRONT SIGHT ASSEMBLY

75 CBE BARREL RELEASE

75 CBF SPRING PIN

75 CBG REAR SIGHT ASSEMBLY

**75-002**

**WORK  
UNIT  
CODE**

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**75 000 WEAPONS**

75 CC0           **COVER ASSEMBLY**  
75 CD0           **FEED TRAY**  
75 CE0           **RECEIVER ASSEMBLY**  
75 CF0           **BUFFER AND SPADE GROUP ASSEMBLY**  
75 CG0           **BOLT AND OPERATING ROD ASSEMBLY**  
75 CGA   \*       **BOLT ASSEMBLY (TCI)**  
75 CGB   \*       **FIRING PIN (TCI)**  
75 CGC           **SPRING PIN**  
75 CH0   \*       **OPERATING ROD ASSEMBLY (TCI)**  
75 CJ0           **DRIVE SPRING AND ROD ASSEMBLY**  
75 CK0           **TRIGGER HOUSING ASSEMBLY**  
75 CKA           **SPRING PIN**  
75 C99           **NOC**



**ELECTRONIC COUNTERMEASURES (ECM)**76000 - *Electronic Countermeasures (ECM)*WORK  
UNIT  
CODE

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|               |  |
|---------------|--|
| 76 000        | ELECTRONIC COUNTERMEASURE (ECM)                    |
| 76 A00        | * AN/AAR-47 COMMON MISSILE WARNING SYSTEM (CMWS)   |
| 76 AA0        | COMPUTER PROCESSOR                                 |
| 76 AB0        | * OPTICAL SENSOR CONVERTER                         |
| 76 AC0        | PROGRAMMING PORT                                   |
| <b>76 AD0</b> | <b>CONTROL INDICATOR</b>                           |
| 76 A98        | WIRING   |
| 76 A99        | NOC  |
| 76 B00        | AN/ALE-47 COUNTERMEASURES DISPENSING SYSTEM (CMDS) |
| 76 BA0        | * CMDS CONTROL DISPLAY UNIT                        |
| 76 BB0        | ALE-47 PROGRAMMER                                  |
| 76 BC0        | * NUMBER 1 DISPENSER (TCI)                         |
| 76 BD0        | NUMBER 1 DISPENSER MOUNT                           |
| 76 BE0        | * NUMBER 2 DISPENSER (TCI)                         |
| 76 BF0        | NUMBER 2 DISPENSER MOUNT                           |
| 76 BG0        | * SAFETY SWITCH                                    |
| 76 BH0        | DISPENSER CABLE                                    |
| 76 BJ0        | * SEQUENCER  |
| 76 BK0        | MANUAL DISPENSER SWITCH                            |
| 76 BL0        | MAGAZINE   |
| 76 BM0        | * CMDS CONTROL PANEL                               |
| 76 BN0        | RELAY K395   |
| 76 BP0        | RELAY K396   |

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**WORK  
UNIT  
CODE**

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**76 000 ELECTRONIC COUNTERMEASURE (ECM)**

**76 BQ0 RELAY K455**

**76 BR0 RELAY K456**

**76 BS0 RELAY K457**

**76 B98 WIRING**

**76 B99 NOC**

**76-002**

**RECONNAISSANCE/SURVEILLANCE**

77000 - Reconnaissance/Surveillance

WORK  
UNIT  
CODE

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77 000 RECONNAISSANCE/SURVEILLANCE  
77 A00 THERMAL IMAGING SYSTEM  
77 AA0 LASER HEAD CONTROL PANEL  
77 AB0 RELAY K312  
77 AC0 RELAY K311  
77 AD0 REMOTE CONTROL CIRCUIT BREAKER S300  
77 AE0 COVER  
77 AF0 \* TURRET UNIT  
77 AFA DESICCATORS  
77 AG0 \* HAND CONTROL UNIT  
77 A98 WIRING  
77 A99 NOC



# COMPUTER AND DATA DISPLAY

82000 - Computer and data display

WORK  
UNIT  
CODE

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|        |  |
|--------|--|
| 82 000 | COMPUTER AND DATA DISPLAY                  |
| 82 A00 | CENTRAL DISPLAY SYSTEM                     |
| 82 AA0 | * NO.1 MULTIFUNCTION DISPLAY               |
| 82 AB0 | * NO.2 MULTIFUNCTION DISPLAY               |
| 82 AC0 | NO.1 MULTIFUNCTION DISPLAY MOUNTING TRAY   |
| 82 AD0 | NO.2 MULTIFUNCTION DISPLAY MOUNTING TRAY   |
| 82 AE0 | * NO.1 PRIMARY FLIGHT DISPLAY              |
| 82 AF0 | * NO.2 PRIMARY FLIGHT DISPLAY              |
| 82 AG0 | NO.1 PRIMARY FLIGHT DISPLAY MOUNTING TRAY  |
| 82 AH0 | NO.2 PRIMARY FLIGHT DISPLAY MOUNTING TRAY  |
| 82 AJ0 | * NO. 1 DISPLAY CONTROLLER                 |
| 82 AK0 | * NO. 2 DISPLAY CONTROLLER                 |
| 82 AL0 | * NO. 1 REMOTE INSTRUMENT CONTROLLER       |
| 82 AM0 | * NO. 2 REMOTE INSTRUMENT CONTROLLER       |
| 82 AN0 | * NO. 1 CURSOR CONTROL PANEL               |
| 82 AP0 | * NO. 2 CURSOR CONTROL PANEL               |
| 82 AQ0 | * DISPLAY DIMMER PANEL                     |
| 82 AR0 | * REVERSION CONTROL PANEL                  |
| 82 AS0 | * NO. 1 MULTIFUNCTION CONTROL DISPLAY UNIT |
| 82 AT0 | * NO. 2 MULTIFUNCTION CONTROL DISPLAY UNIT |
| 82 A98 | WIRING                                     |
| 82 A99 | NOC  |
| 82 B00 | SYSTEM INTEGRATION AND DISPLAY             |

# TO 1H-139(M)A-06-1

WORK  
UNIT  
CODE

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|        |  |
|--------|--|
| 82 000 | COMPUTER AND DATA DISPLAY  |
| 82 BA0 | * CENTRAL DISPLAY  |
| 82 B98 | WIRING   |
| 82 B99 | NOC  |
| 82 C00 | NETWORK INTERFACE  |
| 82 CA0 | * NUMBER 1 NETWORK INTERFACE (NI1) MODULE                            |
| 82 CB0 | * NUMBER 2 NETWORK INTERFACE (NI2) MODULE                            |
| 82 C98 | WIRING   |
| 82 C99 | NOC  |
| 82 D00 | * NUMBER 1 MODULAR AVIONICS UNIT SYSTEM                              |
| 82 DA0 | * NUMBER 1 MODULAR AVIONICS UNIT (MAU1) CABINET                      |
| 82 DB0 | * NUMBER 1 POWER SUPPLY (PS1) MODULE                                 |
| 82 DC0 | * NUMBER 1 CUSTOM INPUT/OUTPUT (CS/O1) MODULE                        |
| 82 DD0 | * VIDEO/CONTROL INPUT/OUTPUT (CIO) MODULE                            |
| 82 DE0 | * NUMBER 1 NETWORK INTERFACE CONTROLLER/PROCESSOR (NIC/PROC1) MODULE |
| 82 DF0 | * NUMBER 1 ACTUATOR INPUT/OUTPUT AND PROCESSOR MODULE                |
| 82 DG0 | NUMBER 1 CENTRAL MAINTENANCE COMPUTER (CMC) MODULE                   |
| 82 D98 | WIRING   |
| 82 D99 | NOC  |
| 82 E00 | * NUMBER 2 MODULAR AVIONICS UNIT SYSTEM                              |
| 82 EA0 | * NUMBER 2 MODULAR AVIONICS UNIT (MAU2) CABINET                      |
| 82 EB0 | * NUMBER 2 POWER SUPPLY (PS2) MODULE                                 |
| 82 EC0 | * NUMBER 2 CUSTOM INPUT/OUTPUT (CS/O2) MODULE                        |

82-002

**WORK  
UNIT  
CODE**

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82 000    **COMPUTER AND DATA DISPLAY**

82 ED0    \*    **NUMBER 2 CONTROL INPUT/OUTPUT (CI/O2) MODULE**

82 EE0    \*    **NUMBER 2 NETWORK INTERFACE CONTROLLER/  
PROCESSOR (NIC/PROC2) MODULE**

82 EF0    \*    **NUMBER 2 ACTUATOR INPUT/OUTPUT AND PROCESSOR  
MODULE**

82 EG0    \*    **AIR MANAGEMENT MODULE**

82 EH0        **NUMBER 2 CONFIGURATION MODULE**

82 E98        **WIRING**

82 E99        **NOC**



# EMERGENCY EQUIPMENT

91000 - Emergency equipment

WORK  
UNIT  
CODE

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|        |   |
|--------|---|
| 91 000 | EMERGENCY EQUIPMENT                             |
| 91 A00 | EMERGENCY LOCATOR TRANSMITTER (ELT) SYSTEM      |
| 91 AA0 | * UNDERWATER LOCATOR BEACON (TCI)               |
| 91 AAA | * BATTERY (TCI)                                 |
| 91 AB0 | RELAY K80                                       |
| 91 AC0 | RELAY K88                                       |
| 91 AD0 | RELAY K89                                       |
| 91 AE0 | COCKPIT AREA MICROPHONE                         |
| 91 AF0 | * RECORDER INDEPENDENT POWER SUPPLY (RIPS)      |
| 91 AFA | * BATTERY (TCI)                                 |
| 91 AG0 | * ELT INTERFACE UNIT                            |
| 91 AH0 | * ELT UNIT                                      |
| 91 AHA | * ELT UNIT BATTERY PACK (TCI)                   |
| 91 AJ0 | BUZZER  |
| 91 AK0 | * ELT ANTENNA                                   |
| 91 AL0 | REMOTE SWITCH PANEL                             |
| 91 AM0 | MOUNTING TRAY                                   |
| 91 A98 | WIRING  |
| 91 A99 | NOC   |
| 91 B00 | FIRE EXTINGUISHER                               |
| 91 BA0 | * COCKPIT PORTABLE FIRE EXTINGUISHER ASSY (TCI) |
| 91 BAA | PORTABLE FIRE EXTINGUISHER                      |
| 91 BAB | FIRE EXTINGUISHER MOUNTING BRACKET              |

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UNIT  
CODE**

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**91 000    EMERGENCY EQUIPMENT**

91 BAC                BRACKET PIN

**91 BB0    \*    CABIN PORTABLE FIRE EXTINGUISHER ASSY (TCI)**

91 BBA                PORTABLE FIRE EXTINGUISHER

91 BBB                FIRE EXTINGUISHER MOUNTING BRACKET

91 BBC                BRACKET PIN

**91 B99    NOC**

**91 C00    FIRST AID KIT**

**91 D00    CRASH AXE**

**91 E00    FLASHLIGHT**

**91 EA0    \*    BATTERY (DART) (TCI)**

**91-002**

# AIRCRAFT EXPLOSIVE DEVICES AND COMPONENT ITEMS

97000 - Aircraft explosive devices and component items

WORK

UNIT

CODE

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97 000 AIRCRAFT EXPLOSIVE DEVICES AND COMPONENTS ITEMS

97 A00 \* (TOP) FIRE BOTTLE EXPLOSIVE CARTRIDGE (TCI)

97 B00 \* EXTERNAL HOIST CUTTER PRESSURE CARTRIDGE (TCI)

97 C00 \* CARGO HOOK CARTRIDGE (TCI)

97 D00 \* (BOTTOM) FIRE BOTTLE EXPLOSIVE CARTRIDGE (TCI)

