

**MAINTENANCE OF SUPPLIES AND EQUIPMENT**

**ARNG AVIATION MAINTENANCE PAMPHLET**



**DEPARTMENTS OF THE ARMY AND THE AIR FORCE**  
**NATIONAL GUARD BUREAU**  
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## FOREWORD

The objective of this pamphlet is to specify procedures and guidelines for the ARNG aviation maintenance activities as they relate to the Army's three categories of maintenance. Conceptual provisions under the three categories; AVUM, AVIM, and Depot are essential to bring ARNG maintenance within DA policy guidance. The functional scope of maintenance for each aviation activity category, as defined in NGR 750-1, is to provide aviation weapons system maintenance in an economical, effective way. Present ARNG capabilities, validated and historically proven, were used as the basis for determining levels of maintenance and workload to be done at each aviation activity. Staffing and equipment will remain under presently authorized documents, Table of Distribution Allowances (TDA), and NGB Pam 570-1. The Maintenance Allocation Charts (MAC) for each aircraft found in -23 Manual Series, with exceptions noted in appendixes A through G (or subsequent) of this pamphlet, will be used for the breakdown of maintenance levels and categories. Original authority delegated to Army aviation support facilities (AASF) allowed for continuation of those tasks that were direct support (DS) under the old four levels of maintenance system. The finite line between the old DS and general support (GS) was never established. This pamphlet will formalize the original split and bring day-to-day maintenance in line with the three levels of maintenance. Original authority will terminate upon implementation of provisions outlined here and IAW NGR 750-1.

This pamphlet also provides ARNG aviation maintenance guidelines for evacuation of components/modules and end items and on-site maintenance requests for repairs beyond aviation activities' organic capabilities. Instructions for evacuation outside ARNG activities are included.

Director  
Army National Guard

Maintenance of Supplies and Equipment

ARNG AVIATION MAINTENANCE PAMPHLET

**Summary.** This pamphlet prescribes procedures for aviation maintenance. It contains information to carry out policies set forth in NGR 750-1.

**Impact on New Manning System.** This pamphlet does not contain information that affects the New Manning System.

**Applicability.** This pamphlet applies to the ARNG.

**Interim changes.** Interim changes to

this pamphlet are not official unless they are authenticated by the Executive, NGB. Users will destroy interim changes on their expiration date(s) unless sooner superseded or rescinded.

**Suggested improvements.** Users of this pamphlet are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to NGB-AVN-L, Bldg E6810, APG, MD 21010-5420.

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**Chapter 1**  
**ARNG Aviation Maintenance Functional**  
**Guidelines**

**1-1. Army aviation support facility (AASF)**

a. The AASF shall perform -  
 (1) Aviation unit maintenance (AVUM) as depicted in the maintenance allocation charts (MAC)(-23 Manual).

(2) "Selected" aviation intermediate unit maintenance (AVIM) as authorized in appendixes (included in this regulation) to the MACs for ARNG aircraft.

(3) Tasks designed to prevent deterioration of equipment and those repairs and replacement of components required to maintain the aircraft operational status.

b. AASF functions include -

(1) Inspecting and servicing to include daily, intermediate (25 hours), periodic or phase, and special inspections.

(2) Troubleshooting of malfunctions to identify and correct deficiencies using technical manuals, built-in test equipment (BITE), and test measurement and diagnostic equipment (TMDE).

(3) Performing all necessary functions associated with the level of maintenance authorized to bring aircraft to a fully operational status.

(4) Accomplishing airframe repairs that do not require extensive disassembly (removal of major assemblies), alignment fixtures, special fixtures, and/or expenditures of significant number of man-hours (over 200 hours per task). An exception to this is CH-47 and CH-54 cargo aircraft major components removal; e.g., AFT pylons and pods.

(5) Performing aircraft weight and balance inspections.

(6) Applying modifications whenever required by appropriate authorities.

(7) Performing aircraft recovery and evacuation, as required, within organic capabilities and obtaining necessary support for evacuation of aircraft beyond organic maintenance capabilities.

(8) Maintaining operational readiness float aircraft when issued, and initiating necessary actions to issue replacement float aircraft whenever criteria is met IAW DA Pam 710-2-2.

(9) Evacuating unserviceable, repairable components/modules and end items beyond Army aviation flight activity and organic capabilities. Evacuation of aircraft should be IAW instructions outlined in this pamphlet.

(10) Performing all necessary authorized repairs of supported weapons systems and avionics/navigational electronic equipment.

(11) Maintenance exceptions to the guidance in paragraph (1) through (10) above must be coordinated with the supporting aviation classification repair activity depot (AVCRAD) and approved (in writing) by the Army National Guard Aviation Division (NGB-AVN).

**1-2. Limited Army aviation support facility (AAFA and AAOF)**

a. The limited AASF shall perform -

(1) AVUM as depicted in the MACs.

(2) Tasks designed to prevent deterioration of equipment and those repairs and replacement of components required to maintain the aircraft operational status.

b. AAFA and AAOF functions include -

(1) Inspecting and servicing to include daily, intermediate (25 hours) periodic or phase, and special inspections.

(2) Troubleshooting of malfunctions to identify and correct deficiencies using technical manuals, BITE, and TMDE.

(3) Performing all necessary functions associated with the levels of maintenance authorized to bring aircraft to a fully operational status.

(4) Obtaining necessary support from parent AASF whenever maintenance actions are beyond organic capabilities.

(5) Coordinating recovery and evacuation of aircraft with parent AASF. Evacuation of aircraft should be IAW guidelines in this pamphlet.

(6) Evacuating unserviceable/repairable components/modules and end items beyond organic capabilities to the parent AASF or AVCRAD as agreed with parent AASF.

(7) Performing all necessary repairs of supported weapons systems and avionics/navigation electronic equipment within authorized equipment constraints.

(8) Maintenance exceptions to the guidance in paragraph (1) through (7) above must be coordinated with supporting AASF/AVCRAD and approved (in writing) by NGB-AVN.

**1-3. Aviation classification repair activity depot (AVCRAD)**

a. The AVCRAD shall perform AVIM and authorized depot level functions in support of ARNG aviation assets. As the higher ARNG level of aviation maintenance for support of ARNG aviation support facilities and other aviation activities, the AVCRAD provides for the repair of equipment on a return-to-user basis. It manages aircraft and components induction

based upon maintenance priority designators (PDs), analysis of unit's requirements, and special training programs (see chap 3).

b. AVCRAD functions include -

(1) Serving as the day-to-day evacuation site for repair of unserviceable/repairable components/modules and end items that are beyond organic capability of the AASF and other aviation activities.

(2) Ensuring that evacuated items accepted for repairs are economically repairable IAW established recoverability criteria and published NGB guidance. If these items are not economically repairable, the AVCRAD shall dispose of components locally or as prescribed by applicable materiel regulations. The owning activity shall be notified of the action taken.

(3) Establishing, maintaining, and supervising a regional repairable exchange (RX) program in support of ARNG maintenance requirements by repairing selected items and stocking for exchange to customer's requirements.

(4) Maintaining and managing, in coordination with NGB-AVN, the ARNG aviation intensive management items (AIMI) program and acting as focal point for all AIMI transactions.

(5) Determining serviceability of specified modules/components removed prior to the expiration of the time between overhaul (TBO) and/or finite life.

(6) Repairing airframes and structural components for actions beyond AASF capability, level of maintenance, and equipment authority.

(7) Providing responsive maintenance support to ARNG regional aviation maintenance requirements with on-site contact teams or in-house support, with on-the-job training, and/or special maintenance requirements; e.g., MAIT visits, engineering coordination, and specification blueprints.

(8) Providing, when requested, classification of aircraft damages, repair criteria, or assistance in evacuation and/or recovery of aircraft when beyond AASF capability.

(9) Establishing and operating an aircraft cannibalization point to support ARNG component shortages and requirements.

(10) Performing non-destructive testing, welding, and inspections beyond AASF capability.

(11) Performing AVIM for selected avionics/electronics and weapons systems.

(12) Managing and operating an aircraft painting program to ensure ARNG aircraft are maintained IAW established DA guidance.

(13) Performing back-up AVUM support, as required, to facilitate and accomplish maintenance tasks of supported AASFs whenever work required does not adversely affect the AVCRAD's regional support program.

(14) Evacuating unserviceable modules/assemblies and end items beyond organic capability to the appropriate depot facility. As an additional but important program, ARNG AVCRADs manage and supervise ARNG special maintenance programs developed and implemented by NGB-AVN-L.

## Chapter 2 Evacuation of Aircraft Components/Modules

### 2-1. Repair request procedure

When a determination has been made that components/modules are unserviceable but repairable at the AVCRAD level (consult AVCRAD repair listings/coordinate telephonically), ARNG activities shall initiate DA Form 2407, Maintenance Request, IAW applicable manuals for the repair and return transaction. ARNG activities shall take into consideration projected shipment, repair, and return timeframe to ensure that aircraft downtime is not compromised by lengthy delays, which could have been prevented by use of other supply means. Before shipment, DA Form 2407 should reflect the proper unit priority authorized and specific faults/defects. Components/modules should be properly preserved and packaged to prevent further damage while in transit. All components/modules should be shipped IAW applicable manuals.

### 2-2. AVCRAD request procedures

a. The AVCRAD shall process work requests IAW the maintenance priority designator (PD) assigned by the requesting activity IAW the unit's force activity designator (FAD). The AVCRAD shall provide the requester with an estimated completion timeframe. (This estimated timeframe for repair should be used by the requesting activity to either wait for the component/module from the AVCRAD or obtain a replacement item from supply sources. The main consideration should be to minimize aircraft downtime.)

b. If, upon completion of the initial inspection at the AVCRAD, it is determined that components/modules are beyond economical repair (or any other related matter that should preclude repair), the ARNG requesting activity shall be promptly notified of actions to be taken by written confirmation of evacuation/salvage actions. ARNG (AASF/AAFA) activities shall take necessary actions to procure replacement component/module.

### 2-3. Time requirements

When a component/module is work-ordered to an AVCRAD for repair, consideration must be given to the owning aircraft status. If it is holding the aircraft from becoming mission capable (aircraft is grounded) the process depicted in paragraph 2-1 should be used except if the time required to repair the component/module is projected to exceed 60 calendar days from receipt of item. The ARNG activity shall be advised of the

projected/induction/completion timeframe. This notification should be used by the requesting activity to determine if a replacement component/module should be requisitioned or wait for the repairable item.

### 2-4. Followup program

a. Army aviation support facility and activity commanders shall implement a followup program for the components/modules work-ordered to the supporting AVCRAD. AVCRAD commanders shall notify in writing the status of each item, to include projections for repair, work completion, etc. Initial followup action should be processed as follows:

(1) Request for status of modules/components that are in excess of 15 days since projected completion timeframe as established in paragraph 2-3.

(2) Submit a followup request 15 days after projected AVCRAD completion (as determined from initial followup) of work for any item not received or for which the aircraft status has changed within the repair waiting period.

(3) Maintain a file of status requests for items meeting the above criteria until actions are completed.

b. These actions would serve as management tools for supported and supporting activities to enhance the timely availability of repair components/modules. AVCRAD commanders shall consider appropriate disposition of any component/module that is projected to exceed 120 days after preinduction analysis due to nonavailability of repair parts, manpower constraints, or any other factors considered appropriate.

c. Exceptions to this guidance is the responsibility of the AVCRAD commander, taking into consideration the need of the support area. On those components that are essential (components that cannot be readily obtained through supply sources) to the support of ARNG aircraft, coordination with NGB-AVN-L should be effected to determine reparability criteria or disposition of components/modules.

### 2-5. Lateral search

AVCRAD commanders shall manage organic repair and return programs to ensure adequate support of regional activities within their responsible areas. Inductions of repair and return components should take into consideration the ARNG activity FAD and maintenance PDs. Not all aviation components/modules can be repaired at a given AVCRAD. Prior to evacuation/salvage, lateral search with other AVCRADs shall be accomplished to obtain support for those items the AVCRAD commanders have selected as essential for

their assigned support mission. An exchange of capability listings should be accomplished between AVCRADs. The listing should be updated, semiannually to provide a sound cross-reference to each AVCRAD. Mutual support, for unique, selected components/modules is encouraged.

#### 2-6. Evacuation process

Evacuation of components/modules from the AVCRAD should be IAW applicable technical publications and local standard operating procedures (SOP) or by actions indicated in the automatic return item list (ARIL).

### Chapter 3 Evacuation of Aircraft

#### 3-1. Activity request procedures

When determination has been made that repairs required on ARNG aircraft are beyond AASF and/or limited AASF-authorized organic capability, the following actions shall be accomplished:

a. Determine if repairs are within AVCRAD capability by consulting the AVCRAD repair listing or telephonic coordination with the AVCRAD quality section.

b. Perform evaluation of repair(s) IAW limitations and guidelines provided in TB 43-0002-3.

c. If unable to perform the evaluation or it is determined to be within prescribed guidelines, submit DA Form 2407, Maintenance Request, to the supporting AVCRAD using the highest priority authorized under unit FAD.

#### 3-2. AVCRAD procedures

Upon receipt of DA Form 2407, Maintenance Request, the AVCRAD shall perform an evaluation of the request and notify the submitting AASF of acceptance or rejection of the same within 5 working days. Notification should include projected timeframes for induction and/or on-site repairs for planning of actions required at the requesting AASF. Specific dates should be firmed up before actual delivery of the aircraft or team arrival onsite.

#### 3-3. Work rejection process

When the work request is rejected, the AVCRAD shall provide pertinent information to the ARNG activity, including actions required for the repair at depot or disposition of aircraft. The latter action should be coordinated through NGB-AVN-L.

#### 3-4. Extent of repairs

Requesting activities shall ensure that DA Form 2407, Maintenance Request, includes all maintenance deficiencies for which repairs or corrections are needed. The AVCRAD shall perform those actions for which the request was submitted and any other safety-of-flight discrepancy(s) found during initial, in-progress, or final inspections. Submitting AASF shall

be notified whenever safety-of-flight deficiencies are discovered. The AVCRAD shall be responsible for those AVIM actions accepted on DA Form 2407, Work Request. Any AVUM action required for the accomplishment of the work requested should be performed IAW standard maintenance practices. Other AVUM or AVIM actions not included on the work request should not be performed. AVCRADs shall not be responsible for work that is the responsibility of supported activities unless previously work-ordered before induction.

#### 3-5. Preinduction responsibilities

The requesting activities shall correct all known AVUM deficiencies before induction (except crash damage). If unable, deficiencies should be deferred until return from the AVCRAD unless coordinated and work-ordered to the AVCRAD as separate actions. Replacement time change components for those that may come due while aircraft is intransit should be the responsibility of the owning activity. Calendar inspections and services that come due while aircraft is undergoing maintenance should be the responsibility of the AVCRAD. Components (TBOs/TC) that may require replacement due to low time remaining should be provided by the requesting ARNG activity and have work requested on DA Form 2407. Components that are unserviceable as a result of incidents, accidents, etc., should be replaced by the activity performing maintenance actions. These components should be obtained through direct exchange, repair and return, and/or supply channels.

#### 3-6. Induction/delivery of aircraft

Aircraft should be processed IAW AVCRAD SOPs for induction. Upon completion of all actions requested, including necessary forms and records, the AVCRAD shall notify ARNG activities that the aircraft is ready for issue. Ferry crews should be provided with a copy of DA Form 2407(s) for verification of actions performed before accepting aircraft. The AVCRAD shall provide assistance to ferry crews as required. Discrepancies found during an acceptance inspection that are not related to the original work request(s), and those that are not safety-of-flight related should be the responsibility of ARNG activities. Exceptions may be approved by the supporting AVCRAD commander.



## Appendix A

## OH58A/C MAINTENANCE CATEGORY

The following maintenance categories for the OH58A/C Maintenance Allocation Charts (MAC) shall be adhered to while performing day-to-day maintenance on ARNG aircraft. Information is listed by category and addresses only those functions that do not have dual categories (i.e., AVUM, AMIM) depicted on the MAC. Applies to AASF and AVCRAD daily maintenance functions. It does not apply during IDT, AT, or mobilization.

NOTE: Items not listed remain as shown on the MAC.

## AIRCRAFT GENERAL

Group Number	Component/Assembly	Maintenance Function	Category
0106	Weight and balance		AASF
0107	Complete painting		AVCRAD
0110	Subassembly painting		AVCRAD

## AIRFRAME

02	Airframe	Repair	AVCRAD
0201 (03)	Honeycomb panels	Repair	AASF
0201 (12)	Pylon support	Repair	AVCRAD
0201 (13)	Isolation mount	Repair	AASF
0202	Tailboom	Repair	AASF
0202	Vertical stabilizer	Repair	AASF

## POWER PLANT

0401 (01)	Exhaust stacks	Repair	AASF
0407	Particle separator	Repair	AASF
0408	Oil bypass selector valve	Inspect/repair	AASF

## ROTOR SYSTEM

0101 (01)	Yoke	Inspect/repair	AASF
0101 (03)	Trunnion	Adjust/replace	AASF
0101 (06)	Grip	Repair	AVCRAD
0601	Grip seals and brng	Replace	AASF
0101 (07)	Pillowblock	Replace	AASF
		Repair	AVCRAD
0101 (09)	Pitch horn	Replace	AASF
0101 (11)	Tension strap	Insp/repair	AASF/AVCRAD
0103	Main rotor blade	Repair	AASF/AVCRAD
0201 (01)	Bearing	Replace	AASF

## DRIVE TRAIN

0102	Input pinion housing adapter and seals	Replace	AASF/AVCRAD
0103	Drop pen assembly	Repair	AVCRAD
0603	Master assembly	Repair	AVCRAD
0604	Free wheeling assembly	Repair	AVCRAD

## INSTRUMENT SYSTEMS

0408	Temperature transmitter	Test	AASF/AVCRAD
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ELECTRICAL SYSTEM

Group Number	Component/Assembly	Maintenance Function	Category
0902	Starter generator	Test	AASF/AVCRAD
0907	Fault annunciator panel	Repair	AVCRAD

FUEL SYSTEMS

1007	Auxiliary fuel system	Repair	AASF
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FLIGHT CONTROL

0701	Bearings	Replace	AASF
0901	Electromechanical control tube assembly	Replace	AASF
		Repair	AVCRAD

ENVIRONMENTAL CONTROL

0106	Air mixing valve	Repair	AVCRAD
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## Appendix B

## UHID/H MAINTENANCE CATEGORY

The following maintenance categories for the UHID/H Maintenance Allocation Charts (MAC) shall be adhered to while performing day-to-day maintenance on ARNG aircraft. Information is listed by category and addresses only those functions that do not have dual categories (i.e., AVUM, AMIM) depicted on the MAC. Applies to AASF and AVCRAD daily maintenance functions. It does not apply during IDT, AT, or mobilization.

NOTE: Items not listed remain as shown on the MAC.

## AIRCRAFT GENERAL

Group Number	Component/Assembly	Maintenance Function	Category
0107	Weight and balance		AASF
0109	Complete painting		AVCRAD
0110	Subassembly painting		AVCRAD

## AIRFRAME

0202 (03)	Honeycomb panels	Repair	AVCRAD
0202 (10.1)	Seat, crew	Repair	AASF

## ALIGHTING GEAR

0305 (02)	Cylinder assembly	Repair	AASF
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## POWER PLANT

0410	Oil cooler, engine	Test	AVCRAD
0411	Blower, turbine	Repair	AASF

## ROTOR SYSTEM

0502	Stabilizer bar	Adjust	AASF
0503-01 (02)	Grip assembly	Replace	AVCRAD
0503-01 (03)	Shield assembly	Inspect	AASF
0503-01 (03)	Shield assembly	Replace	AASF
0503-01 (03)	Shield assembly	Repair	AASF
0503-01 (05)	Strap assembly, tension	Inspect	AASF
0503-01 (05)	Strap assembly, tension	Replace	AASF
0504 (03)	Hub assembly	Replace	AASF
0506	Damper assembly, stabilizer	Repair	AASF

## DRIVE TRAIN

0601-01 (01)	Upper bearing assembly	Inspect	AASF
0601-02 (01)	Pressure relief valve	Repair	AVCRAD
0601-02 (05)	Input drive quill	Repair	AVCRAD
0601-02 (06)	Offset quill	Repair	AVCRAD
0601-02 (07)	Hydraulic Pump and tach drive	Repair	AVCRAD
0601-02 (08)	Tail rotor quill	Repair	AVCRAD
0601-02 (11)	Oil pump assembly	Test	AASF

Group Number	Component/Assembly	Maintenance Function	Category
0601-02 (11)	Oil pump assembly	Repair	AVCRAD
0607	Tail rotor drive shaft	Align	AASF
0607-02 (01)	Tail rotor 42 degree/ 90 degree gearbox quills	Repair	AVCRAD

## HYDRAULIC SYSTEM

0701	Cylinder assembly/main servo	Repair	AVCRAD
0701 (02)	Servocylinder assembly	Repair	AVCRAD
0712	Servocylinder tail rotor	Repair	AVCRAD

## INSTRUMENT SYSTEMS

0802-04 (01)	Fuel quantity indicator and amplifier	Test	AASF/AVCRAD
0802-04 (01)	Fuel quantity indicator and amplifier	Adjust	AASF
0802-04 (03)	Tank sensor probes and units	Inspect/Replace Repair	AASF
0803-07	Pitot system	Calibrate	AASF

## ELECTRICAL SYSTEM

0903	Battery	Service	AASF
0905	Main generator	Test/Repair	AASF/AVCRAD
0906	Alternater 30 KVA	Test	AASF
0907	Starter generator	Test/Repair	AASF/AVCRAD
0909	Inverters	Test	AASF
0909	Inverters	Repair	AVCRAD
0911-04	Landing light assembly	Repair	AASF

## FUEL SYSTEMS

1015	Tanks, main fuel both crashworthy and noncrashworthy	Replace	AVCRAD
1015	Tanks, main fuel both crashworthy and noncrashworthy	Replace	AASF
1015	Tanks, main fuel both crashworthy and noncrashworthy	Replace	AVCRAD
1015-01	Cover plate	Inspect/Replace	AASF
1017	Pump assembly, ejector	Inspect/Replace	AASF
1021-01	Pump, booster	Repair	AVCRAD

## FLIGHT CONTROL

1102	Flight control bearings	Replace/Repair	AASF
1103-01	Cyclio stick	Replace	AASF
1103-02	Tube and lever assembly	Repair	AVCRAD

Group Number	Component/Assembly	Maintenance Function	Category
1103-04	Force gradient	Repair	AASF
1103-06	Tubes, links and clevises	Repair	AVCRAD
1103-07	Bellcranks, levers and support	Repair	AVCRAD
1104-01	Jackshaft	Repair	AVCRAD
1104-02	Control assembly	Repair	AASF
1104-05	Control tubes	Replace/Repair	AASF
1104-06	Bellcranks, levers and support	Repair	AVCRAD
1105-01	Control tubes	Repair	AASF
1106-01	Control cables	Repair	AASF
1106-02	Adjustor assembly	Repair	AASF
1106-05	Rod and quill	Repair	AASF
1106-07	Force gradient	Repair	AASF
1106-08	Control tubes	Repair	AASF
1106-09	Bellcranks, levers and support	Repair (major)	AVCRAD
1106-10	Control chain (roller type)	Replace	AASF

## UTILITY SYSTEM

1202-02 (01)	Motor assembly	Repair	AVCRAD
1202-20 (02)	Converter assembly	Repair	AVCRAD

## ENVIRONMENTAL CONTROL

1301-03	Valve assembly, heating selector	Repair	AASF
1302-03	Blower unit	Repair	AASF
1302-04	Valve mixing	Repair	AASF
1302-05	Plenum assembly	Repair	AASF

## HOIST AND WINCHES

1401-13	Control box	Test/Install	AASF
1401-13	Control box	Replace	AASF
1401-13	Control box	Repair	AVCRAD
1401-14	Control pendant	Install/Replace	AASF
1401-14	Control pendant	Repair	AVCRAD
1401-15	Hoist drive unit	Repair	AVCRAD
1401-16	Hoist cable storage	Repair	AASF
1402-04	Cargo hook	Repair	AASF
1403-03 (01)	Motor	Inspect/Test/ Replace/Repair	AASF
1403-03 (02)	Stanchion	Inspect/Service Replace/Repair	AASF
1403-03 (03)	Mechanical stop assembly	Inspect/Adjust/ Replace	AASF
1403-03 (04)	Rotary actuator assembly	Inspect/Test/ Replace	AASF
1403-03 (07)	Inertia dump assembly	Inspect/Adjust/ Replace/Repair	AASF
1403-04	Control panel	Repair	AASF



## Appendix C

## AHIG MAINTENANCE CATEGORY

The following maintenance categories for the AHIG Maintenance Allocation Charts (MAC) shall be adhered to while performing day-to-day maintenance on ARNG aircraft. Information is listed by category and addresses only those functions that do not have dual categories (i.e., AVUM, AMIM) depicted on the MAC. Applies to AASF and AVCRAD daily maintenance functions. It does not apply during IDT, AT, or mobilization.

NOTE: Items not listed remain as shown on the MAC.

## AIRCRAFT GENERAL

Group Number	Component/Assembly	Maintenance Function	Category
0107	Weight and balance		AASF
0109	Complete painting		AVCRAD
0110	Subassembly painting		AVCRAD

## AIRFRAME

0202-05	Transmission mount dampers	Repair	AASF
0202-10	Deck assembly, engine	Align/Repair/ Replace	AVCRAD

## ALIGHTING GEAR

0305	Pump assembly	Repair	AASF
0305-02	Cylinder assembly	Repair	AASF

## POWER PLANT

0406	Oil cooler, engine	Test	AVCRAD
0408	Oil cooler blower, turbine	Limited repair	AASF

## ROTOR SYSTEM

0502-01 (02)	Grip assembly	Replace/Repair	AVCRAD
0502-01 (03)	Housing assembly	Inspect/Replace	AASF
0502-01 (03)	Housing assembly	Repair	AVCRAD
0502-01 (06)	Extension assembly	Replace	AASF
0502-01 (09)	Yoke assembly	Replace	AASF
0502-01 (10)	Trunnion assembly	Replace	AASF
0502-01 (11)	Housing assembly, trunnion	Replace	AASF

## DRIVE TRAIN

0601-	42 Degrees/90 Degrees Gearboxes drive drills	Repair	AVCRAD
0611-	Bypass valve assembly	Repair	AASF
0612-	Oil pump	Test/Repair	AASF

## HYDRAULIC SYSTEM

0703	Valves	Repair	AVCRAD
0705	Solenoid valve	Repair	AVCRAD

Group Number	Component/Assembly	Maintenance Function	Category
0707	Hydraulic module	Repair	AVCRAD
0708	Hydraulic servo cylinders	Repair	AVCRAD
0709	Hydraulic accumulator	Test/Repair	AVCRAD
0711	Seas servo actuators	Test/Repair	AVCRAD

INSTRUMENT SYSTEMS

0801	Instrument panels	Replace/Repair	AASF
0801-0201	Fuel quantity indicator and amplifier	Adjust/Replace	AASF
0801-0202	Tank sensor, probes and units	Inspect/Test/Replace	AASF
0801-0307	Pitot system	Calibrate	AASF
0801-0401	Engine and rotor tachometer	Test	AASF
0801-0402	Turbine gas, temperature	Test/Calibrate	AASF
0801-0405	Fuel pressure indicator and transmitter	Test	AASF
0801-0501	Gas producer tachometer	Test	AASF
0801-0603	Temperature bulbs	Test	AASF

ELECTRICAL SYSTEMS

0902	Relays, CB, plugs, Recept and boards	Test	AASF
0905	Battery	Test/Service	AASF
0906	Starter generator	Test	AASF
0913	RPM warning control box	Repair	AVCRAD

FUEL SYSTEMS

1001	Crash, noncrashworthy cells	Replace	AASF
1002	Fuel low warning system	Test/Replace	AASF
1003	Boost pumps	Replace/Repair	AASF

FLIGHT CONTROL

1102	Force gradient assembly	Repair	AASF
1103	Control stick (coll and cyclic)	Replace/Repair	AASF
1105	Magnetic brake	Repair	AVCRAD

ENVIRONMENTAL CONTROL

1302	Control valves	Repair/Test	AVCRAD
1307	Temperature control/sensor	Repair	AVCRAD
1309	Pressure regulating and shutoff valve	Test	AVCRAD

EMERGENCY EQUIPMENT

1701	Canopy removal system	Replace/Repair	AASF
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## Appendix D

## OH6A MAINTENANCE CATEGORY

The following maintenance categories for the OH6A Maintenance Allocation Charts (MAC) shall be adhered to while performing day-to-day maintenance on ARNG aircraft. Information is listed by category and addresses only those functions that do not have dual categories (i.e., AVUM, AMIM) depicted on the MAC. Applies to AASF and AVCRAD daily maintenance functions. It does not apply during IDT, AT, or mobilization.

NOTE: Items not listed remain as shown on the MAC.

## AIRCRAFT GENERAL

Group Number	Component/Assembly	Maintenance Function	Category
01	Weight and balance		AASF
01	Complete painting		AVCRAD
01	Subassembly painting		AVCRAD

## AIRFRAME

02	Mast support	Replace/Repair	AVCRAD
02	Engine mounts	Repair	AVCRAD
02	Tailboom (JIG/fixtures)	Replace	AVCRAD
02	Tailboom (no fixture required)	Replace	AASF
02	Horizontal stabilizer (JIG/fixtures)	Repair	AVCRAD

## POWER PLANT

04	Tailpipe assembly	Repair	AASF
04	Oil cooler	Limited repair	AVCRAD
04	Check valve	Repair	AVCRAD
04	Actuator, power turbine	Repair	AVCRAD

## ROTOR SYSTEM

05	Swasplate assembly	Repair	AVCRAD
05	Main rotor dampers	Repair	AVCRAD
05	Tail rotor blades	Repair	AASF

## DRIVE TRAIN SYSTEM

06	Mast assembly	Replace	AASF
06	Shaft assembly main transmission	Replace	AASF

## ELECTRICAL SYSTEM

09	Starter generator	Test/Repair	AASF
09	Battery	Test/Service	AASF
09	Trim actuators	Test	AASF
09	Trim actuators	Repair	AVCRAD
09	Annunciator assembly	Repair	AVCRAD



## Appendix E

## CH47A MAINTENANCE CATEGORY

The following maintenance categories for the CH47A Maintenance Allocation Charts (MAC) shall be adhered to while performing day-to-day maintenance on ARNG aircraft. Information is listed by category and addresses only those functions that do not have dual categories (i.e., AVUM, AMIM) depicted on the MAC. Applies to AASF and AVCRAD daily maintenance functions. It does not apply during IDT, AT, or mobilization.

NOTE: Items not listed remain as shown on the MAC.

## AIRCRAFT GENERAL

Group Number	Component/Assembly	Maintenance Function	Category
0101	Aircraft recovery		AASF
0109	Weight and balance		AASF
0110	Complete painting		AVCRAD
0111	Subassembly painting		AVCRAD

## AIRFRAME

0201	AFT pylon	Replace	AASF/AVCRAD
0202-01	Mounts, engine and transmission	Replace	AVCRAD
0202-03	Formers, longerons, ribs, stringers, beams, attachments and sync shaft brackets	Replace	AASF

## POWER PLANT

0403	Tailpipe and inner cone	Repair	AASF/AVCRAD
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## ROTOR SYSTEM

0501	Blade assembly	Test/Adjust	AASF
0501-01	Tip cover	Replace	AASF
0501-02	ISIS indicator	Replace	AASF
0501-03	Evacuation valve	Inspect	AASF
0501-03	Evacuation valve	Test	AVCRAD
0502	Rotor head assembly	Repair	AASF
0502-02	Vertical hinge pin bearing oil tank	Replace	AASF
0502-06	Vertical pin bearing	Inspect/Replace	AASF
0504	Swasplate assembly	Repair	AASF/AVCRAD
0505	Shock absorber rotor blade	Test/Repair	AVCRAD

## DRIVE TRAIN

0601-04	Oil tank	Repair	AVCRAD
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Group Number	Component/Assembly	Maintenance Function	Category
HYDRAULIC SYSTEM			
0707	Solenoid operated shutoff valve	Repair	AVCRAD
0708	Winch control, brake actuating, gate and solenoid valves	Repair	AVCRAD
0709	Power steering assembly, Electro-Hydraulic	Repair	AVCRAD
0710	Pivoting and Swiveling actuating cylinders	Repair	AVCRAD
0712	Stick boost dual actuating cylinder and manifold	Repair	AVCRAD
0713	Ramp actuating cylinder	Repair	AVCRAD
0714	Cargo hook release valve	Repair	AVCRAD
0718	Filter assemblies	Repair	AASF/AVCRAD
0722	Fluid cooler and duct	Repair	AVCRAD
0723	Brake master cylinder	Repair	AASF
INSTRUMENT SYSTEM			
0802	Transmission oil pressure transducers	Test	AASF
0806	Rotor tach indicator	OVHL	AVCRAD
0807	Transmission oil pressure indicator and switch	Test	AASF
0808	Transmission oil temperature indicator and switch	Test/Adjust	AASF
0811	Fuel quantity indicators	Test/Adjust/ Replace	AASF
0821	Free air temperature	Test	AASF
0828	Fuel quantity tank unit and wire harness	Repair	AASF
ELECTRICAL SYSTEM			
0902	Generator, brushless	Test/Repair	AASF
0907	APU and generator control relay box	Test/Repair	AASF
0908	Differential protection unit	Test/Adjust	AASF
0913	DC power supply (transformer- rectifier)	Repair	AVCRAD
0917	Light, anticollision	Repair	AASF
0918	Master caution panel	Repair	AVCRAD
0919	Cyclic stick trim control panel	Repair	AASF
0920	Power steering control box	Repair	AVCRAD

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Group Number	Component/Assembly	Maintenance Function	Category
FLIGHT CONTROL			
1102	Longitudual cyclic trim actuator	Repair	AASF/AVCRAD
1103	Cyclic stick and thrust control grip	Repair	AASF
1105	Cockpit control assembly interlinks	Repair	AASF
1106	Flight control connecting link	Repair	AVCRAD
1112	Magnetic brakes	Repair	AVCRAD
UTILITY SYSTEM			
1203	Windshield wiper motor	Repair	AVCRAD
1207	Engine Anti-icing valve	Repair	AVCRAD
HOIST AND WINCHES			
1401	Rescue and cargo handling Winch	Repair	AASF
1402	Grip assembly winch control	Repair	AASF



## Appendix F

## CH54A MAINTENANCE CATEGORY

The following maintenance categories for the CH54A Maintenance Allocation Charts (MAC) shall be adhered to while performing day-to-day maintenance on ARNG aircraft. Information is listed by category and addresses only those functions that do not have dual categories (i.e., AVUM, AMIM) depicted on the MAC. Applies to AASF and AVCRAD daily maintenance functions. It does not apply during IDT, AT, or mobilization.

NOTE: Items not listed remain as shown on the MAC.

## AIRCRAFT GENERAL

Group Number	Component/Assembly	Maintenance Function	Category
00	Weight and balance		AASF
00	Complete painting		AVCRAD
00	Subassembly painting		AVCRAD

## AIRFRAME

02	Tail cone	Replace	AASF
02 (16)	POD to aircraft attachment fitting	Repair	AASF

## ALIGHTING GEAR

03	Tail skid system	Repair	AVCRAD
03	Shock strut and fork assembly/main	Repair	AASF
03	Shock strut and fork assembly/nose	Repair	AASF
03 (16)	Strut and arm assembly	Repair	AASF
03	Steering mechanism rods and bellcranks	Repair	AVCRAD

## ROTOR SYSTEM

05	Main rotor blades	Test	AASF
05	Air valve	Replace	AASF
05	Stationary and rotating scissors	Repair	AVCRAD

## DRIVE TRAIN

06	APP clutch	Repair	AASF
06	Radiator	Repair	AVCRAD

## HYDRAULIC SYSTEM

07	Accumulators	Repair	AASF
07	AFCS servo valves	Repair	AVCRAD
07	Servo Cylinders	Repair	AVCRAD

Group Number	Component/Assembly	Maintenance Function	Category
INSTRUMENT SYSTEM			
08	Pilot's and co-pilot's instrument panel	Replace	AASF
FUEL SYSTEM			
10	Valves, motor operated gate and selector	Repair	AASF
FLIGHT CONTROL			
11	Bellcranks, torque tubes and quadrants	Repair	AASF
11	Push-pull rods, links and rod end bearings	Repair	AASF
11	Pilot's and co-pilot's control stick	Repair	AASF
11	Mixing unit	Repair	AVCRAD
11	AFF facing pilot's remote hover stick	Repair	AVCRAD
11	Foot pedal adjustors	Repair	AASF
UTILITY SYSTEM			
12	Controllable mirror assemblies	Repair	AASF
ENVIRONMENTAL CONTROL			
13	Blower	Repair	AASF
HOIST AND WINCHES			
14	Cable cutter assembly	Repair	AASF
14	Cargo lashing reels	Repair	AASF

## Appendix G

## AHIS (MOD-ECAS-PROD-MODERNIZED)

The following maintenance categories for the AHIS Maintenance Allocation Charts (MAC) shall be adhered to while performing day-to-day maintenance on ARNG aircraft. Information is listed by category and addresses only those functions that do not have dual categories (i.e., AVUM, AMIM) depicted on the MAC. Applies to AASF and AVCRAD daily maintenance functions. It does not apply during IDT, AT, or mobilization.

NOTE: Items not listed remain as shown on the MAC.

## AIRCRAFT GENERAL

Group Number	Component/Assembly	Maintenance Function	Category
0107	Weight and balance		AASF
0109	Complete painting		AVCRAD
0110	Subassembly painting		AVCRAD

## AIRFRAME

0201	Tailboom	Repair	AASF
0202 (02)	Honeycomb panels	Replace/Repair	AVCRAD
0202 (10)	Deck assembly, engine	Align/Replace/ Repair	AVCRAD

## ALIGHTING GEAR

0305	Pump assembly	Repair	AASF
0305 (02)	Cylinder assembly	Repair	AASF

## POWER PLANT

0406	Oil cooler, engine	Test	AVCRAD
0408	Oil cooler, blower	Repair	AASF

## ROTOR SYSTEM

0502-01 (02)	Grip assembly	Replace/Repair	AVCRAD
0502-01 (03)	Housing assembly	Inspect/Replace/ Repair	AASF
0502-01 (03)	Housing assembly	Inspect/Replace/ Repair	AVCRAD
0502-01 (06)	Extension assembly	Replace	AASF
0502-01 (07)	Strap assembly tension	Inspect/Replace	AASF
0502-01 (09)	Yoke assembly	Replace	AASF
0502-01 (10)	Trunnion assembly	Replace	AASF
0502-01 (11)	Housing assembly trunnion	Replace	AASF
0503-03	Hub assembly	Replace	AASF

Group Number	Component/Assembly	Maintenance Function	Category
DRIVE TRAIN			
0611	Bypass valve assembly	Repair	AASF
0612	Oil pump	Test/Repair	AASF
HYDRAULIC AND PNEUMATIC SYSTEM			
0703	Valves	Repair	AVCRAD
0705	Selenoid	Repair	AVCRAD
0707	Hydraulic module	Repair/Overhaul	AVCRAD
0708	Hydraulic servo cylinders	Repair/Overhaul	AVCRAD
0709	Hydraulic accumulator	Test/Repair	AVCRAD
0711	SCAS servo actuators	Test/Repair	AVCRAD
INSTRUMENT SYSTEM			
0801	Instrument panels	Replace/Repair	AASF
0801-0201	Fuel quantity indicator and amplifier	Adjust/Replace	AASF
0801-04	Pitot system	Calibrate	AASF
0801-0401	Engine and rotor tachometer	Test	AASF
0801-0402	Turbine gas, temperature	Test/Calibrate	AASF
0801-0405	Fuel pressure indicator and transmitter	Test	AASF
0801-0501	Gas producer tachometer	Test	AASF
0801-0603	Temperature bulbs	Test	AASF
ELECTRICAL SYSTEM			
0902	Relays, CB, plugs, recept and boards	Test	AASF
0905	Battery	Test/Service	AASF
0906	Starter generator	Test/Repair	AASF
0913	RPM warning control box	Repair	AVCRAD
FUEL SYSTEM			
1001	Main fuel tanks (both)	Replace/Repair	AASF
1002	Fuel low level warning system	Test/Replace	AASF
1003	Boost pumps	Repair	AASF
FLIGHT CONTROL			
1102	Force gradient assembly	Repair	AASF
1103	Control stick (collective/cyclic)	Replace/Repair	AASF
1105	Magnetic brake	Repair	AASF

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Group Number	Component/Assembly	Maintenance Function	Category
ENVIRONMENTAL CONTROL			
1302	Control valves	Repair/Test	AVCRAD
1307	Temperature control, sensor	Repair	AVCRAD
1309	Pressure regulating and shutoff valve	Test	AVCRAD
EMERGENCY EQUIPMENT			
1701	Canopy removal system	Replace/Repair	AASF

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Distribution: Special (AG, SAAO, POTO, AATS, AASF/AAFA/AAOF, AVCRAD, Avn Unit)