***TM 1-1520-248-PPM**

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 31 December 2001

OH-58D HELICOPTER

Progressive Phase Maintenance Inspection Checklist and

Preventive Maintenance Services

*This manual supersedes TM 1-1520-248-PPM dated 30 April 1999.

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TM 1–1520–248–PPM
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CHANGE

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 14 June 2002

OH–58D HELICOPTER

PROGRESSIVE PHASE MAINTENANCE INSPECTION CHECKLIST AND

PREVENTIVE MAINTENANCE SERVICES

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Remove pages	Insert pages
16–25 and 16–26	16–25 and 16–26
16–35 and 16–36	16–35 and 16–36
16–41 through 16–44	16–41 through 16–44

2. Retain this sheet in front of manual for reference purposes.

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 direct to: Commander, U.S. Army Aviation and Missile Command, ATTN: AMSAM-MMC-MA-NP, Redstone Arsenal, AL 35898-5000. You may also submit your recommended changes by E-mail directly to 2028@redstone.army.mil in the format provided in the back of this manual immediately preceding the hard copy 2028. DA Form 2028's may also be faxed to DSN 788-6546 or Commercial fax 256-842-6546. A reply will be furnished to you.

WARNING

CERTAIN INSPECTIONS ARE NONDEFERRABLE AND THE INSPECTION INTERVALS SHALL NOT BE EXCEEDED.

NOTE

IF ANY INSPECTION IS NOT ACCOMPLISHED AT THE SPECIFIED INTERVAL, THE HELICOPTER CONDITION STATUS SYMBOL SHALL IMMEDIATELY BE CHANGED TO A RED X.

ALL AREAS AND COMPONENTS ACCESSED BY THE PROGRESSIVE INSPECTION FOR CORROSION MUST BE CHECKED IN ACCORDANCE WITH TM 1-1520-248-23, APPENDIX Q. IF CORROSION IS DISCOVERED, CLEAN UP THE CORRODED AREA AND INSPECT FOR PITS AND/OR CRACKS. IF NO PITS OR CRACKS ARE FOUND, TREAT THE AREA IN ACCORDANCE WITH TM 1-1520-248-23, APPENDIX Q, OR TM 1-1500-344-23. IF PITS OR CRACKS NOT COVERED BY AVAILABLE TECHNICAL MANUALS (TMs) ARE DISCOVERED, CONTACT THE LOCAL LOGISTICS ASSISTANCE REPRESENTATIVE (LAR) FOR CORRECTIVE PROCEDURES.

THE TERM “DAMAGE OR CONDITION” REFERS TO, BUT IS NOT LIMITED TO: CRACKS, DISTORTION, CHAFING, ABNORMAL WEAR, LEAKS, LOOSE OR MISSING RIVETS, TORN OR WORN WEATHERSTRIPPING AND/OR DOOR SEALS, VOIDS, AND MISSING OR ILLEGIBLE STENCILS.

OH-58D HELICOPTER PROGRESSIVE PHASE MAINTENANCE (PPM)

GENERAL INFORMATION

THE OH-58D HELICOPTER HAS BEEN IDENTIFIED AS ONE OF THE AVIATION SYSTEMS THAT WILL USE THE PROGRESSIVE PHASE MAINTENANCE (PPM) PROGRAM. IT IS IMPERATIVE THAT THE GUIDELINES IN THIS MANUAL ARE IMPLEMENTED AS WRITTEN. WE RECOGNIZE THAT OTHER MAINTENANCE MANUALS MAY CONTRADICT THE INSTRUCTIONS IN THIS MANUAL; HOWEVER, THE GUIDANCE CONTAINED IN THIS MANUAL SHALL TAKE PRECEDENCE.

SCOPE

THE PPM INSPECTION CHECKLISTS ARE DESIGNED TO PROVIDE FLEXIBILITY TO THE COMMANDER AND MAINTENANCE OFFICER FOR ANY TYPE OF MISSION CONTINGENCY. IF THE COMMANDER OR MAINTENANCE OFFICER DETERMINES THAT THE MINIMUM REQUIREMENTS OF THE 20-FLIGHT HOUR/14-DAY PMS ARE NOT ADEQUATE FOR THE AREA OF OPERATIONS, THEY MAY INCREASE THE FREQUENCY REQUIREMENT. THE PMS IS DESIGNED AS A VISUAL INSPECTION ONLY AND SHOULD NOT REQUIRE ANY SPECIAL TOOLS. THE REQUIREMENTS OF THE INDIVIDUAL INSPECTION CHECKLISTS ARE BASED ON THE CONDITION THAT THE EQUIPMENT INSPECTION LIST, DA FORMS 2408-18/2408-18-E, WHICH LIST THOSE MINIMUM SPECIAL INSPECTION REQUIREMENTS, ARE USED.

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OH-58D HELICOPTER PROGRESSIVE PHASE MAINTENANCE (PPM)
PART I - PROGRESSIVE PHASE CHECKLIST

GENERAL INFORMATION

PART I IS THE INDIVIDUAL PROGRESSIVE PHASE MAINTENANCE (PPM) INSPECTION CHECKLIST, WHICH IS MAINTAINED WITH THE HISTORICAL RECORDS UNTIL THE PARTICULAR INSPECTION NUMBER IS DUE. PART II IS A 20-FLIGHT HOUR/14-DAY PREVENTIVE MAINTENANCE SERVICES (PMS) AND IT SHALL BE MAINTAINED AS A PART OF THE AIRCRAFT LOGBOOK.

1-1. PROGRESSIVE INSPECTION SCHEDULE.

Part I contains requirements for accomplishing Progressive Phase Maintenance (PPM) inspections of the OH-58D helicopter. Inspection requirements are distributed into 15 equalized checklist sections which together constitute a complete PPM cycle. The inspection checklist must be accomplished consecutively at 40-flight hour intervals. The 40-flight hour intervals will be computed from the beginning of the PPM cycle (600 Hour) not from the last inspection checklist completed. To allow maximum scheduling flexibility, the inspection checklist may be started up to 4 hours prior to the inspection checklist beginning time. Once within the PPM window, any portion of the inspection may be performed. All inspection items must be completed prior to starting the next scheduled PPM. Completion of an inspection checklist either early or late, within the above limitations, does not alter the due time for the remaining inspection checklist in the cycle. Each inspection checklist must be accomplished consecutively until all are completed. The cycle is then repeated beginning with inspection checklist number 1.

1-2. INSPECTION REQUIREMENTS.

By design, there are no longer any individual **"**deferrable**"** inspection requirements. Once within the PPM window any portion of the inspection may be performed. All inspection items must be completed prior to starting the next scheduled PPM, otherwise the status will change to a red 'X' with entries made on DA Forms 2408-13/2408-13-E and 2408-13-1/2408-13-1-E per DA PAM 738-751. The following entries shall be made on DA Form 2408-13/2408-13-E, blocks: 12.B NEXT PHASE/ SCHEDULED INSP (NO) — **"**PPM #_____**"**, 12.C NEXT PHASE/SCHEDULED INSP DUE AT — **"**_____ hours**"**. If inspection is completed prior to starting the next scheduled PPM, the following entries shall be made on DA Form 2408-13/2408-13-E, blocks: 12.B NEXT PHASE/SCHEDULED INSP (NO) — **"**PPM #_____**"**, 12.C NEXT PHASE/SCHEDULED INSP DUE AT — **"**_____ hours**"**. The PPM inspection checklist is placed in the

back of the aircraft logbook once within the PPM window and remains there until completion of that checklist. The following entry shall be made on DA Form 2408-13-1/2408-13-1-E, "PPM #_____in progress, shall be completed not later than _____aircraft hours ". The checklist may be performed all at once or one item at a time. For example: Today, I reviewed the PPM checklist and noted that two inspection requirements can easily be performed within an hour; therefore, I will perform only those inspections. The next day I note that I have time to perform one additional inspection due to the aircraft flying schedule or resources available. I continue performing all inspection items until the checklist is complete. All related maintenance actions will be annotated on the appropriate DA Form 2408-13-2/2408-13-2-E (Related Maintenance Actions Record). The last inspection item on all PPM checklists is verification that all PPM requirements were completed and aircraft logbook updated. The maintenance supervisor is required to review all forms and records and verify all maintenance related actions. NOTE: Not all inspection items require maintenance related actions.

1-3. SPECIAL MISSION AIRCRAFT/EQUIPMENT.

This manual may contain inspection requirements applicable to specific equipment not normally installed on your helicopter. Those inspections should be disregarded, and N/A entered in the DATE COMPLETE block of the inspection checklist. Inspection requirements which cannot be completed due to mission configuration, such as items that are not installed or not accessible, may be deferred until items are installed or become accessible. The inspection requirements will be recorded on DA Form 2408-13-1/2408-13-1-E (Aircraft Inspection and Maintenance Record) with a red dash (-) symbol and must be approved by the unit Commander or designated representative.

1-4. 20-FLIGHT HOUR/14-DAY PREVENTIVE MAINTENANCE SERVICES (PMS).

Part II of this manual contains complete requirements for a 20-flight hour/14-day inspection for the OH-58D helicopter. It is imperative that this requirement is completed at the required intervals. The 20-flight hour interval may be extended, if necessary, up to 2 flight hours to complete the mission day as defined by the unit commander. When this interval is extended, the inspection must be completed before starting the next day's flight. Aircraft status will reflect a red dash (—) until the inspection is completed. A 14-day inspection is to be accomplished as a minimum each 14 consecutive calendar days, and may not be extended. The 20-flight hour/14-day inspection may be performed early, as required by the unit commander and maintenance officer to meet scheduling requirements. The next 20-flight hour/14-day inspection will be computed by adding 20 hours to the current aircraft total time and adding 14 days to the date the inspection was completed and updating DA Form 2408-18/2408-18-E accordingly.

1-5. EQUIPMENT INSPECTION LIST.

This manual also contains an illustration of special inspections and services (figure 7) called for in TM 1-1520-248-23. This illustration contains only the minimum needed. As special inspections and services are added or deleted per TM 1-1520-248-23 or other directives, entries on the example DA Form 2408-18/2408-18-E (figure 7) will be made per DA Pamphlet 738-751 at the same time the official aircraft forms are updated. The DA Forms 2408-18/2408-18-E in the PPM checklist should be used as references only, not a replacement for the DA Forms 2408-18/2408-18-E in the aircraft logbook.

1-6. EXCEEDING THE INSPECTION SCHEDULE.

Except as specified in paragraphs 1-1, 1-2, 1-3, and 1-4 the inspection intervals designated herein are the maximum and shall not be exceeded except in operational emergencies as explained in TM 1-1500-328-23.

1-7. MAINTENANCE ACTIVITIES.

The inspection prescribed by this manual will be accomplished by Aviation Unit Maintenance (AVUM) activities with assistance of Aviation Intermediate Maintenance (AVIM) and Depot Maintenance activities when required.

1-8. LIMITATIONS.

Checklists do not contain instruction for repair, adjustment, or other means of rectifying conditions. Neither do they contain special tolerances, limits, nor instructions for troubleshooting to find cause for malfunctions. Such information will be obtained from the aircraft maintenance manual (TM 1-1520-248-23). Other applicable manuals are referenced in the individual inspection checklists.

1-9. LUBRICATIONS AND LUBRICATION REQUIREMENTS.

Scheduled lubrications and requirements are NOT included in this checklist. They are included on the enclosed DA Form 2408-18/2408-18-E.

1-10. SERIAL NUMBER AND MAOT CHECK.

A check on the maximum allowable operating time (MAOT) remaining on each component will also be accomplished. The latest issue of TM 1-1520-248-23, TB 1-1500-341-01, DA Pamphlet 738-751, and DA Forms 2408-16/2408-16-E shall be

referred to for a complete listing of time change (TC) and retirement change (RC) components assigned a MAOT. When directed by the inspection checklist that applies, a visual verification check will be made of serial numbers of all reportable components installed. A list of components and their serial numbers will be made during this check. The serial numbers taken from the installed components will be cross checked with those entries made on DA Form 2408-16, or the computer historical files. Item serial numbers that cannot be visually verified without teardown are identified with an asterisk in the Serial Number Checklist (Figure 6). The serial number on these items will be verified by a check of DA Form 2408-16. Those serial numbers and other data on DA Form 2408-16 or computer historical files shall be updated as necessary to correspond to the current serial numbers and other data for the components on the aircraft.

1-11. USING THE INSPECTION CHECKLISTS.

a. Part I contains 15 individual progressive inspection checklists. Each checklist contains a unique combination of requirements and no two checklists are exactly alike. The inspection checklist must be accomplished consecutively, in numerical order, as directed in paragraphs 1-1 and 1-2. Note: the inspection sequence number will be in numerical order, not necessarily in complete numerical sequence. No checklist may be omitted and none should be accomplished more than once in an inspection cycle. These inspection checklists along with the Part II, enclosed DA Form 2408-18/2408-18-E and special inspections contained in the TM 1-1520-248-23, define the complete preventive maintenance requirements for the OH-58D helicopter.

b. Each time an inspection is due, the numbered checklist that applies should be separated from this manual and placed in the aircraft logbook. It will remain in the logbook until all inspection requirements have been completed. Located on the same line of each inspection requirement are spaces provided to enter the date (ddmmyy) completed, initials or PID, and man-hours (M/H) required. Your initials will be used until your unit implements an Army aviation automation initiative called Unit Level Logistics System - Aviation (ULLS-A). Then you will enter your PID in this space.

(1) Space is provided on the Progressive Inspection Checklist for entering the following data:

(a) Aircraft serial number (for example 9100353)

(b) Aircraft total time (the time the checklist is placed in the aircraft logbook)

(c) Date of the inspection (the date the checklist is placed in the aircraft logbook)

(2) Specific inspection requirements maintain the same sequence number throughout the entire series of checklists; therefore, the sequence numbers will not run consecutively in any individual checklist. An Inspection Requirements Management Matrix, Table 1, shows the occurrence of each inspection requirement throughout the entire inspection cycle.

All maintenance required to complete an inspection checklist will be recorded on the DA Form 2408-13-2/2408-13-2-E. Enter the date and page number on the DA Form 2408-13-2/2408-13-2-E. Complete blocks 2, 3, 7, 8, 9, 10, and 11 on DA Form 2408-13-2/2408-13-2-E. The tasks completed on each DA Form 2408-13-2/2408-13-2-E will be entered in the bottom of block 7, for example (2.3, 2.8, and 4.1). If an inspection task is a runover from one DA Form 2408-13-2/2408-13-2-E to another, put the task number in block 7 of each affected form. This will allow tracking and monitoring of forms and records throughout each PPM checklist. If the checklist is completed all at one time, enter **"**ALL TASKS COMPLETED**"** in the bottom of block on the DA Form 2408-13-2/2408-13-2-E.

1-12. INITIALS/PERSONNEL IDENTIFIER (PID).

Person or persons that perform the specific inspection requirement shall place their initials/PID next to the **"**DATE COMPLETED**"** line next to the inspection requirement and will define their initials/PID on the Signature Sheet (figure 5). The PID is made up with the first and last name initial plus the last four numerical characters of the person's Social Security Account Number (SSAN).

1-13. MAN-HOURS (M/H) REQUIRED.

The M/H block is used to enter the total number of direct man-hours required to perform the inspection requirement.

1-14. SIGNATURE SHEET.

The purpose of the Signature Sheet (figure 5) is to identify those INITIAL/PIDs used during the completion of the PPM checklist. Individuals who have performed the required PPM tasks will certify that all required PPM tasks have been completed by writing their INITIAL/PID next to the **"**DATE COMPLETED**"** line. In the case where more than one person performs PPM tasks in a particular area, the individual who is responsible for PPM inspection of that area will ensure that all PPM tasks have been completed and will so certify by placing their INITIAL/PID in the appropriate block. Persons placing their INITIAL/PID on the **"**INITIAL/PID**"** line will print and sign their name and place their INITIAL/PID on a name-line of the Signature Sheet. When completed, the Signature Sheet will remain with that PPM checklist attached to the current DA Form 2408-13-1/2408-13-1-E. To determine if deficiencies/faults noted during the PPM inspection have been corrected, it is necessary to review the DA Forms 2408-13-1/2408-13-1-E and/or DA Forms 2408-13-2/2408-13-2-E as applicable.

1-15. RECORDS CHECK.

At the completion of each inspection checklist and following the completion of any corrective action, the Technical Inspector shall verify that applicable forms and records have been properly updated. All faults found shall be entered on the DA Form 2408-13-1/2408-13-1-E prepared for that date in accordance with DA PAM 738-751. The fault entered on DA Form 2408-13-1/2408-13-1-E shall be preceded by the inspection requirement number.

1-16. MAINTENANCE OPERATIONAL CHECKS.

After the completion of any required corrective actions to any of the components of a functional system of the helicopter, Maintenance Operational Checks (MOC) shall be performed on the system to determine the effectiveness of the maintenance actions performed and to verify the proper operation of that system (refer to TM 1-1520-248-23). The MOC shall be performed in accordance with TM 1-1520-248-23 and documented on the DA Form 2408-13-1/2408-13-1-E and DA Form 2408-13-3/2408-13-3-E that applies.

1-17. MAINTENANCE TEST FLIGHTS.

A general maintenance test flight, as defined in TM 1-1500-328-23, is required twice during an inspection cycle, following the completion of Inspection Checklist numbers 8 and 15, and shall be performed in accordance with TM 1-1520-248-MTF. For convenience, a Maintenance Test Flight Checksheet (figures 4 and 5) is included as part of Inspection Checklists 8 and 15. Additional maintenance test flights may be performed at any time deemed necessary by the unit Maintenance Officer or to meet the requirements of TM 1-1520-248-23.

1-18. FORMS AND RECORDS DISPOSITION.

The completed DA Form 2408-13-2/2408-13-2-E, and any additional forms and records, will be separated from the flight pack and retained with the PPM records until the entire inspection checklist is completed. The inspection checklist together with the signature sheet, DA Form 2408-13-2/2408-13-2-E, DA Form 2408-13-3/2408-13-3-E, MTF checksheets, and related forms and records shall be attached to the DA Form 2408-13-1/2408-13-1-E and filed in accordance with DA PAM 738-751. The completion of each inspection checklist shall be recorded on DA Form 2408-13-1/2408-13-1-E as prescribed by DA PAM 738-751. The completion of each PPM cycle shall be recorded on DA Form 2408-15/2408-15-E (Historical Record for Aircraft).

1-19. INSPECTION AREAS.

Figure 1 reflects the inspection areas of the OH-58D helicopter. Those areas are titled as shown. Figure 2 shows the location of access doors and panels which require opening or removal when directed by the inspection checklists.

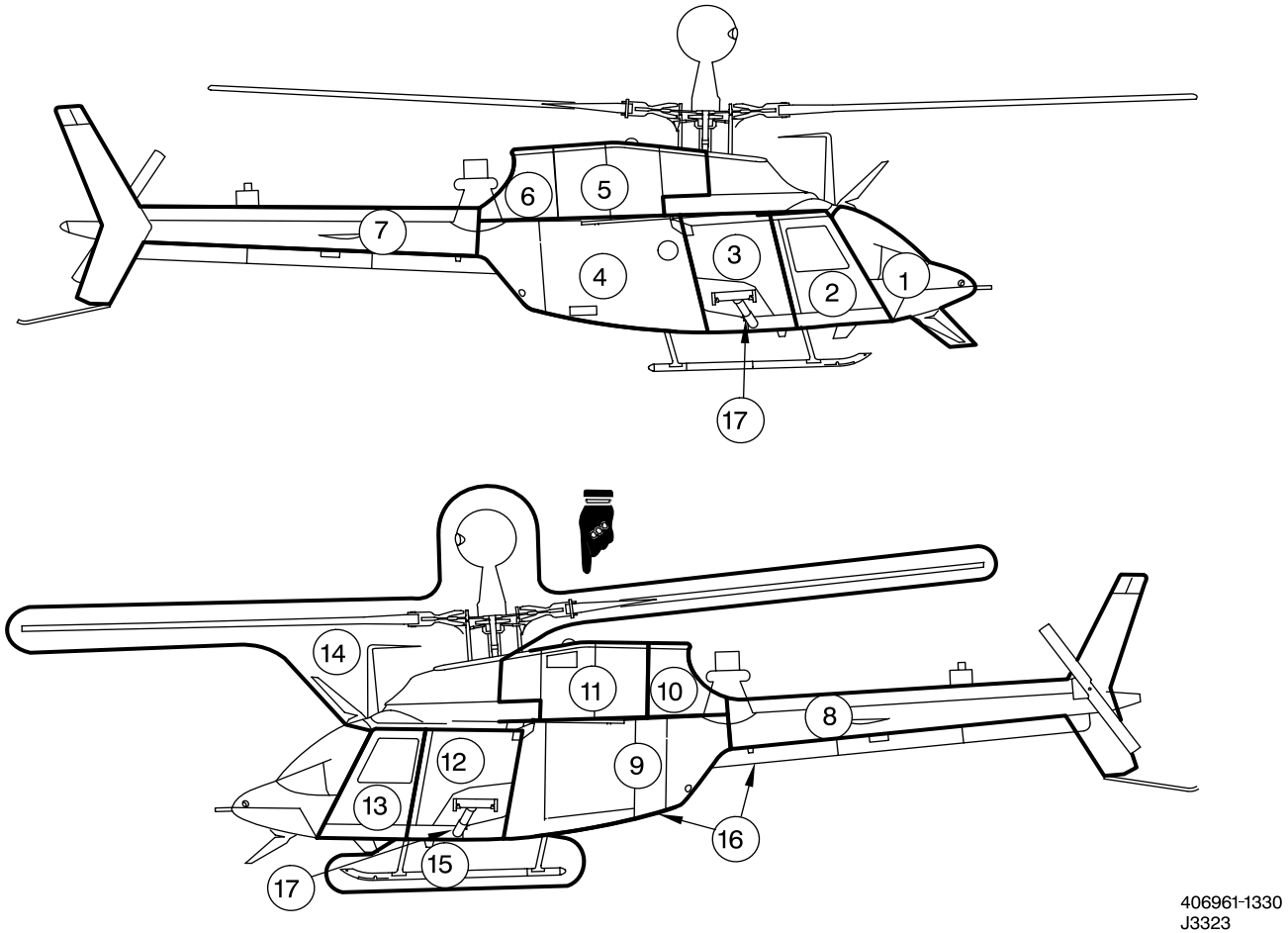

Figure 1. Inspection Areas (Sheet 1 of 5)

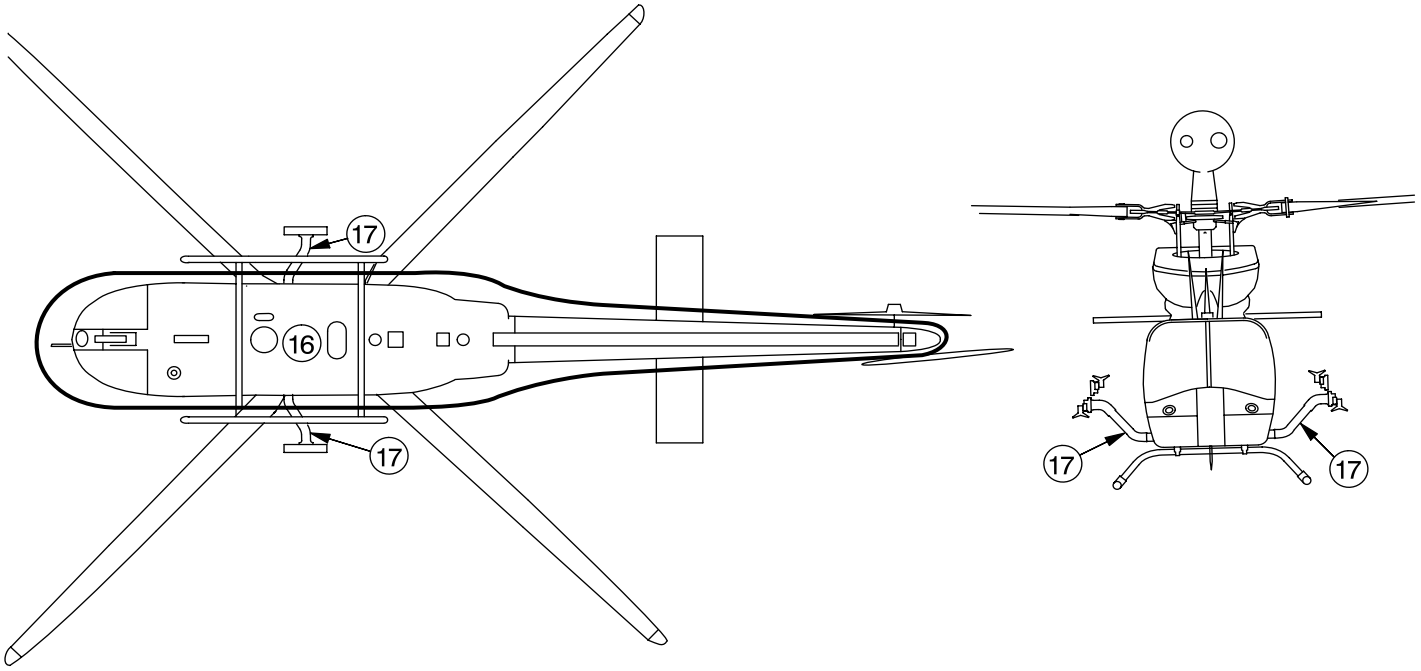

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Figure 1. Inspection Areas (Sheet 2 of 5)

Area No. 1	Nose Area	All surface, components, and equipment in nose compartment and on exterior ahead of crew doors. Includes lower wire strike protector.
Area No. 2	Crew Compartment (Right Side)	All surfaces, components, and equipment inside cabin and on cabin exterior between forward and aft edge of crew door.
Area No. 3	Access Door and Avionics Compartment (Right Side)	All surfaces, components, and equipment inside cabin and on cabin exterior between forward and aft edge of access door.
Area No. 4	Fuselage Area (Right Side)	All surfaces, components, and equipment on aft fuselage exterior between aft edge of access door and forward end of tailboom. Includes fuel filler cap, drain lines, and receptacles.
Area No. 5	Engine Area (Right Side)	All surfaces, components, and equipment associated with engine installation located above engine work deck and within engine cowling. Includes engine armor, fuel control or HMU, starter-generator, particle separator, engine barrier filter (EBF) system engine filter (if equipped), inlet shield inspection panel.
Area No. 6	Aft Fairing Assembly (Right Side)	All surfaces, components, and equipment associated with transmission and engine oil system. Includes aft fairing assembly.

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Figure 1. Inspection Areas (Sheet 3 of 5)

Area No. 7	Tailboom (Right Side)	All surfaces, components and, equipment located in or on the tailboom. Includes antennas, horizontal stabilizer, tail rotor driveshaft cover, all supports, bearings, and shafts mounted on tailboom and fin assembly.
Area No. 8	Tailboom (Left Side)	All surfaces, components, and equipment located in or on the tailboom. Includes horizontal stabilizer, tail rotor gearbox, tail rotor, directional control linkages, EGI antenna, and EGI antenna coax cable.
Area No. 9	Avionics and Aft Fuselage (Left Side)	All surfaces, components, and equipment on aft fuselage exterior between aft edge of access door and forward end of tailboom. Includes flight controls, electrical equipment, battery, and aft electrical compartment door.
Area No. 10	Aft Fairing Assembly (Left Side)	All surfaces, components, and equipment associated with transmission and engine oil system. Includes sight glass gauge, flexible coupling and first bearing of tail rotor driveshaft.
Area No. 11	Engine Area (left Side)	All surfaces, components, and equipment associated with engine installation located above engine work deck and within engine cowling. Includes engine armor, alternator, freewheeling unit, particle separator, EBF engine filter and bleed air filter (if equipped), and inlet shield inspection panel.

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Figure 1. Inspection Areas (Sheet 4 of 5)

Area No. 12	Access Door and Avionics Compartment (Left)	All surfaces, components, and equipment inside cabin and on cabin exterior between forward and aft edge of left access door. Includes aft avionics shell.
Area No. 13	Crew Compartment (Left Side)	All surfaces, components, and equipment inside cabin and on cabin exterior between forward and aft edge of crew door.
Area No. 14	Pylon Area	All surfaces, compartments, and equipment associated with main rotor and controls, mast mounted sight (MMS), transmission, EBF bypass door actuator and right access door FOD screen (if equipped), hydraulic system, antennas, upper wirestrike protector, and inlet shield.
Area No. 15	Alighting Gear	All surfaces, components, and equipment associated with skid gear.
Area No. 16	Bottom of Fuselage Tailboom	All surfaces, antennas, temperature probe, fuel pump, and searchlight.
Area No. 17	Universal Weapons Pylon and Weapons System	Left and right weapons pylon support arm and all associated hardware, fittings, bushings, and armament attaching points. Left and right weapons system, mounting points, associated hardware, and electrical connections.

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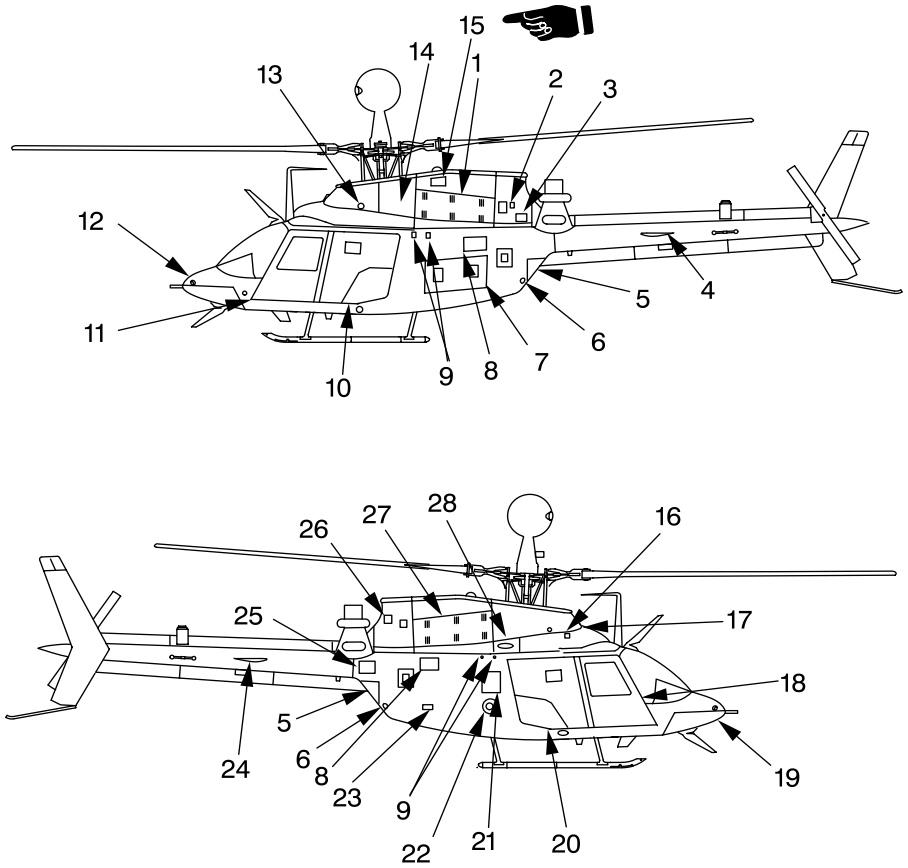
Figure 1. Inspection Areas (Sheet 5 of 5)



1. Left engine cowl
2. Window oil tank
3. Oil tank drain access door
4. Stabilizer and supports
5. Antenna access panel
6. Screen (venthole)
7. Aft electrical compartment door
8. Access panel
9. Maintenance platform attach fittings
10. Access door
11. Crew door
12. Nose door
13. Window hydraulic fluid
14. Left transmission access door
15. EBF bleed air filter
16. Servoactuator inspection door
17. Inlet shield
18. Crew door
19. DC external power receptacle door
20. Access door
21. Fuel line access panel
22. Refueling receptacle
23. AC external power receptacle door
24. Stabilizer and supports
25. Tailboom attach access panel
26. Oil tank filler cap inspection door
27. Right engine cowl
28. Right transmission access door

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Figure 2. Access and Inspection Provisions (Sheet 1 of 2)

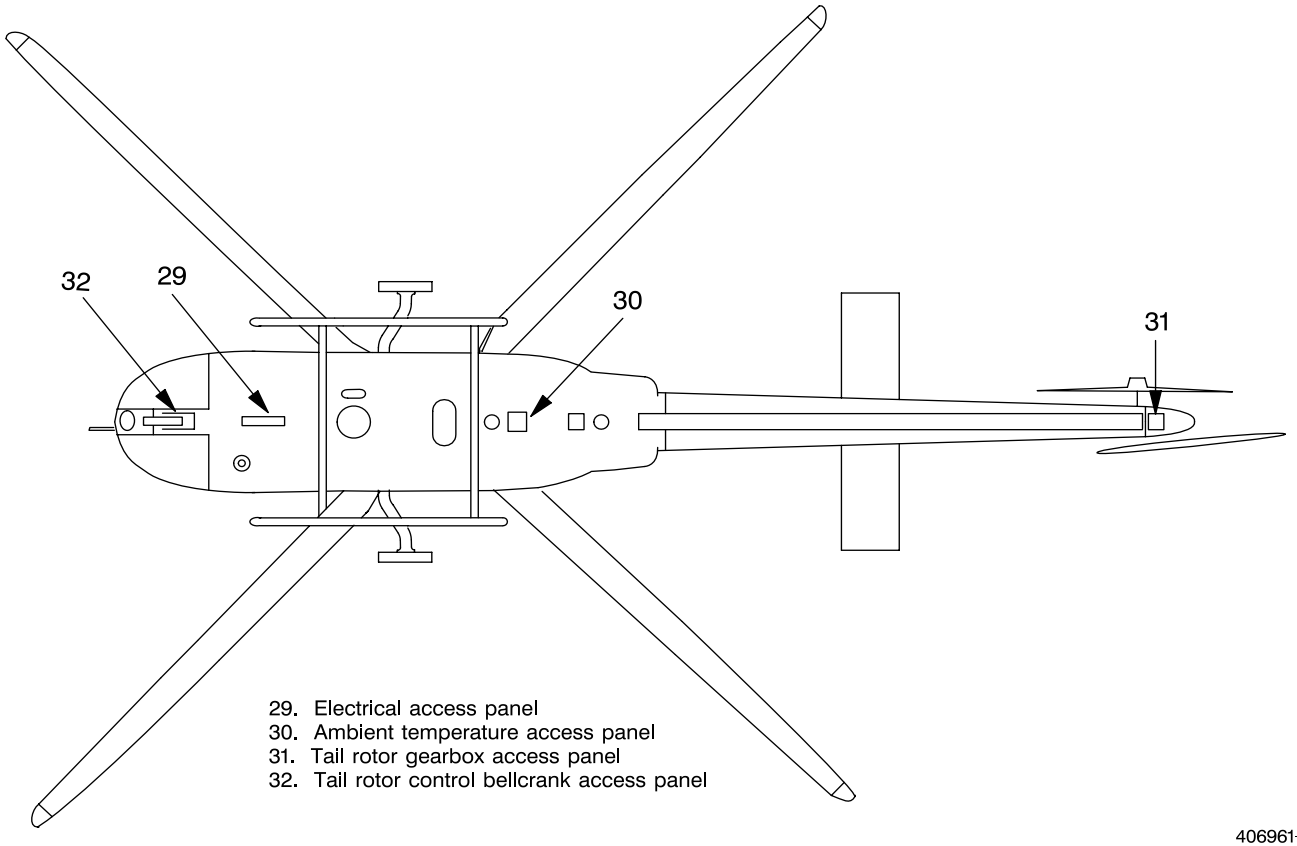

Figure 2. Access and Inspection Provisions (Sheet 2 of 2)

OH-58D MTF CHECK SHEET

PURPOSE OF TEST FLIGHT		
ACFT S/N		DATE
PILOT SIGNATURE		UNIT
ACFT WT:	DA BASELINE	DA TODAY

SYMBOLS ✓ = SATISFACTORY X = DEFICIENCY

	PRIOR TO MAINTENANCE TEST		19 DEFOG SYSTEM
	FLIGHT		20 HTR
	1 FORMS AND RECORDS		21 MASK BLWR
	2 FLIGHT READINESS INSP		22 PITOT HTR
	BEFORE STARTING ENGINE CHECKS		23 FUEL BOOST
	1 FAT_____°C		24 AC GEN
	2 MAG COMPASS HDG _____		25 ENG ANTI-ICE
	3 CW SYSTEM		26 BATT PRHT
	4 ENGINE HISTORY		27 BIT CHKS
	5 MPD		28 AVX CHKS
	ENGINE START/RUNUP CHECKS		BEFORE HOVER CHECKS
	1 START TGT (PEAK) ____ °C		1 SYSTEMS
	2 START TIME ___ SEC		XMSN OIL P ___ psi
	3 EBF CHECK		XMSN OIL T ___ °C
	4 EGI CHECK		ENG OIL P ___ psi
	SYSTEM CHECKS		ENG OIL T ___ °C
	1 MFD BIT CODE		NG ___ %
	2 RFD		ENG TRQ ___ %
	3 FORCE TRIM		TGT ___ °C
	4 CYCLIC CHECK (lbs)		MAST TRQ ___ %
	FORE ___ AFT____		2 STBY ALTIMETER
	LEFT___ RIGHT____		3 MFD CHK
	5 COLLECTIVE ___ (lbs)		HOVER CHECKS
	6 PEDALS ___ (lbs)		1 POWER ASSURANCE CHECK
	7 HYDRAULIC SYSTEM		FAT ____°C TGT____ °C
	8 ENGINE IDLE SPEED		PA ___ feet
	9 IDLE RELEASE		ENG TRQ (chart) ____ %
	10 FUEL CONTROL OVERSPEED		ENG TRQ (actual) %
	11 THROTTLE OPEN CHKS		2 HOVER POWER CHECK
	12 NP TRIM		MAST TRQ ___ %
	13 MAST TRQ		TGT____ °C NG ___ %
	14 HIGH RPM ROTOR WARNING		3 CONTROL RIGGING CHECK
	15 SCAS REL		4 SCAS CHECK
	16 SCAS TEST		5 HEADING HOLD
	17 HEADING HOLD		6 POWER CYLINDER CHECK
	18 COMPT BLWR		

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Figure 3. OH-58D Maintenance Test Flight Check Sheet (Suggested Format) (Sheet 1 of 2)

OH-58D MTF CHECK SHEET (CONT)

SYMBOLS	✓ = SATISFACTORY	X = DEFICIENCY
7 ENGINE RESPONSE AND FUEL CONTROL CHECK		MAST TRQ__%
8 HOVER BOB UP CHECK		2 FDL/BIT
9 FLT INSTRUMENTS CHKS		3 BATTERY CHECKS
INFLIGHT CHECKS		4 THROTTLE OFF CHECKS
1 RADAR ALTIMETER		5 LAST FLIGHT RECALL
2 CONTROL RIGGING		FC1___ FC2 ___
3 AUTOROTATION NR___ %		FC3___ FC4 ___
4 HYDRAULIC SYSTEMS		FC5___ FC6 ___
5 COLLECTIVE ANTICIPATOR		6 POSTFLIGHT INSPECTION
6 VIBRATION ANALYSIS		7 COMPLETE UPDATE FORMS AND RECORDS
7 FLIGHT INSTRUMENTS		SPECIAL EQUIPMENT CHECKS
VSD		1 ATHS
SLIP INDICATOR		2 NAV SYSTEM
8 STANDBY INSTRUMENTS		PRESENT POSITION _____
MAGNETIC COMPASS		ACTUAL POSITION _____
9 COMMUNICATIONS		CIRCULAR ERROR _____
FM 1 ___ UHF___		3 GPS
VHF ___ HF___		4 AIRBORNE CALIBRATION
FM 2 ___ HOMING___		5 COMPASS COMPENSATION
SECURE EQUIP ___		6 MMSS
10 TRANSPONDER		7 ADSS
11 FUEL CONSUMPTION CHECK		8 AVTR
STOP TIME __ QTY___		9 DTS
START TIME ___QTY___		10 ASE
FLOW RATE___pph		APR-39 ___ AVR-2___
ENGINE SHUTDOWN CHECKS		ALQ-144 ___ APR-44 ___
1 SYSTEMS		11 WPNS SYS
XMSN OIL P__ psi		PDU ___ ATAS ____
XMSN OIL T__°C		MG ___ HF ____
ENG OIL P__ psi		RKTS ____
ENG OIL T___°C		
NG__ %		
ENG TRQ__ %		
TGT___°C		

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J2868

Figure 3. OH-58D Maintenance Test Flight Check Sheet (Suggested Format) (Sheet 2 of 2)

OH-58D (R) MTF CHECK SHEET

PURPOSE OF TEST FLIGHT			
ACFT S/N		DATE	
PILOT SIGNATURE		UNIT	
ACFT WT:	DA BASELINE	DA TODAY	

SYMBOLS ✓ = SATISFACTORY X = DEFICIENCY

	PRIOR TO MAINTENANCE TEST		17 HEADING HOLD
	FLIGHT		18 COMPT BLWR
	1 FORMS AND RECORDS		19 DEFOG SYSTEM
	2 FLIGHT READINESS INSP		20 HTR
	BEFORE STARTING ENGINE CHECKS		21 PITOT HTR
	1 FAT_____°C		22 FUEL BOOST
	2 MAG COMPASS HDG _____		23 AC GEN
	3 AUDIO TONE		24 ENG ANTI ICE
	4 FADEC MONITOR		25 BATT PRHT
	5 PARK HMU		26 BIT CHKS
	6 MPD		27 AVX CHKS
	ENGINE START/RUNUP CHECKS		BEFORE HOVER CHECKS
	1 START TGT (PEAK) _____°C		1 SYSTEMS
	2 START TIME _____ SEC		XMSN OIL P _____ psi
	3 EBF CHECK		
	4 EGI CHECKS		XMSN OIL T _____ °C
	SYSTEM CHECKS		ENG OIL P _____ psi
	1 MFD BIT CODE		ENG OIL T _____ °C
	2 RFD		NG _____ %
	3 FORCE TRIM		ENG TRQ _____ %
	4 CYCLIC CHECK (lbs)		TGT _____ °C
	FORE _____ AFT_____		MAST TRQ _____ %
	LEFT _____ RIGHT _____		2 STBY ALTIMETER
	5 COLLECTIVE _____ (lbs)		3 MFD CHECKS
	6 PEDALS _____ (lbs)		HOVER CHECKS
	7 HYDRAULIC SYSTEM		1 POWER ASSURANCE CHECK
	8 ENG IDLE SPEED		FAT _____°C TGT _____ °C
	9 IDLE RELEASE		PA _____ feet
	10 FADEC (PMA)		ENG TRQ (chart) _____ %
	11 THROTTLE OPEN CHKS		ENG TRQ (actual) _____ %
	12 NP TRIM		2 HOVER POWER CHECK
	13 MAST TRQ		MAST TRQ _____ %
	14 HIGH RPM ROTOR WARNING		TGT _____ °C NG _____ %
	15 SCAS REL		3 CONTROL RIGGING CHECK
	16 SCAS TEST		4 SCAS CHECK

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J3323

Figure 4. OH-58D (R) Maintenance Test Flight Check Sheet (Suggested Format) (Sheet 1 of 3)

OH-58D (R) MTF CHECK SHEET (CONT)

SYMBOLS	✓ = SATISFACTORY	X = DEFICIENCY
5 HEADING HOLD		MAST TRQ _____ %
6 POWER CYLINDER CHECK		2 FADEC MAINT CODE
7 ENGINE RESPONSE		3 BATTERY CHECKS
8 FADEC MANUAL		4 OVERSPEED TEST
9 HOVER BOB-UP CHECK		5 THROTTLE OFF CHKS
10 FLT INSTRUMENT CHKS		6 RECALL L/R IMPCU
INFLIGHT CHECKS		1960 CPU CCA
1 RADAR ALTIMETER		1553 I/O CCA
2 CONTROL RIGGING		DIGITAL I/O CCA
3 AUTOROTATION NR _____ %		ANALOG I/O CCA
4 HYDRAULIC SYSTEM		ADSS I/O CCA
5 COLLECTIVE ANTICIPATOR		SYS GEN CCA
6 VIBRATION ANALYSIS		WPNS CCA
7 FLIGHT INSTRUMENTS		ASE CCA
VSD		RMS CCA
SLIP INDICATOR		VTR CCA
8 STANDBY INSTRUMENTS		VIXL CCA
MAGNETIC COMPASS		SCAS BIT
9 COMMUNICATIONS		MISC BIT
FM 1 _____ FM 2 _____		7 POSTFLIGHT INSPECTION
VHF _____ UHF_____		8 COMPLETE UPDATE FORMS
VOX		AND RECORDS
SECURE EQUIP _____		SPECIAL EQUIPMENT CHECKS
10 TRANSPONDER		1 IDM
11 RMS CHK		2 NAV SYSTEM
12 FUEL CONSUMPTION CHECK		PRESENT POSITION _____
STOP TIME _____ QTY_____		ACTUAL POSITION _____
START TIME _____ QTY_____		CIRCULAR ERROR _____
FLOW RATE _____ pph		3 GPS
ENGINE SHUTDOWN CHECKS		4 AIRBORNE CALIBRATION
1 SYSTEMS		5 COMPASS COMPENSATION
XMSN OIL P _____ psi		6 MMSS
XMSN OIL T _____ °C		7 ADSS
ENG OIL P _____ psi		8 AVTR
ENG OIL T _____ °C		9 DTS
NG _____ %		10 ASE
ENG TRQ _____ %		APR-39 _____ AVR-2 _____
TGT _____ °C		

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J2868

Figure 4. OH-58D (R) Maintenance Test Flight Check Sheet (Suggested Format) (Sheet 2 of 3)

OH-58D (R) MTF CHECK SHEET (CONT)

SYMBOLS	✓ = SATISFACTORY	X = DEFICIENCY	
	APR-44 ______ ALQ-144		
	11 WPN SYS		
	PDU CHK _____		
	ATAS ______ MG _____		
	HF ________ RKTS _____		

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J2868

Figure 4. OH-58D **R** Maintenance Test Flight Check Sheet (Suggested Format) (Sheet 3 of 3)

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

406961-1333
H3534

Figure 5. Signature Sheet

ITEM	SERIAL NUMBER	ITEM	SERIAL NUMBER
MAIN ROTOR GRIP (Red)		SWASHPLATE DRIVE LINK	
MAIN ROTOR GRIP (Orange)		SWASHPLATE DRIVE LINK	
MAIN ROTOR GRIP (Blue)		CYCLIC SERVO ACTUATOR (L)	
MAIN ROTOR GRIP (Green)		CYCLIC SERVO ACTUATOR (R)	
MAIN ROTOR HUB ASSEMBLY		COLLECTIVE SERVO ACTUATOR	
MAIN ROTOR YOKE		SWASHPLATE GIMBAL RING	
MAIN ROTOR UPPER PLATE		TAIL ROTOR BLADE	
MAIN ROTOR LOWER PLATE		TAIL ROTOR BLADE	
SHEAR BEARING ASSEMBLY (R)		TAIL ROTOR SERVO ACTUATOR	
SHEAR BEARING ASSEMBLY (O)		TAIL ROTOR GEARBOX	
SHEAR BEARING ASSEMBLY (B)		TAIL ROTOR HUB	
SHEAR BEARING ASSEMBLY (G)		MAST ASSEMBLY	
DRIVE RING SET		INPUT DRIVESHAFT	
SWASHPLATE & SUPPORT ASSY		LEFT SIDE BEAM	
SWASHPLATE OUTER RING		RIGHT SIDE BEAM	
SWASHPLATE INNER RING		FORWARD TRANSVERSE BEAM	
SWASHPLATE DRIVE HUB SET		AFT TRANSVERSE BEAM	
SWASHPLATE DRIVE LEVER		RESTRAINT SPRING ASSY (L)	
ANTIDRIVE LINK		RESTRAINT SPRING ASSY (R)	
ANTIDRIVE LEVER		RESTRAINT SPRING FITTING (L)	
* SWASHPLATE BEARING & LINER		RESTRAINT SPRING FITTING (R)	

* Component serial number cannot be visually verified. Refer to paragraph 1-10.

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J2416

Figure 6. Serial Number Checklist (Sheet 1 of 2)

ITEM	SERIAL NUMBER	ITEM	SERIAL NUMBER
CORNER MOUNT (LF)		MAIN ROTOR PITCH HORN (Red)	
CORNER MOUNT (LR)		MAIN ROTOR PITCH HORN (Orange)	
CORNER MOUNT (RF)		MAIN ROTOR PITCH HORN (Blue)	
CORNER MOUNT (RR)		MAIN ROTOR PITCH HORN (Green)	
TRANSMISSION TOP CASE		* TRANSMISSION OIL PUMP	
ENGINE ASSEMBLY		* FREEWHEELING SHAFT ASSEMBLY	
FUEL PUMP (OH-58D)		* CLUTCH INPUT SHAFT	
* FUEL NOZZLE		* CLUTCH OUTPUT SHAFT	
* 1st STAGE TURBINE WHEEL (OH-58D)		MAIN ROTOR MAST	
* 2nd STAGE TURBINE WHEEL (OH-58D)		* STANDPIPE	
* 3rd STAGE TURBINE WHEEL (OH-58D)		MAIN DRIVESHAFT ASSEMBLY	
* 4th STAGE TURBINE WHEEL (OH-58D)			
COMPRESSOR IMPELLER ASSY (OH-58D)			
FUEL CONTROL ASSY (OH-58D)			
TURBINE ASSEMBLY (OH-58D(R))			
MAIN TRANSMISSION			
MAIN ROTOR BLADE (Red)			
MAIN ROTOR BLADE (Orange)			
MAIN ROTOR BLADE (Blue)			
MAIN ROTOR BLADE (Green)			

* Component serial number cannot be visually verified. Refer to paragraph 1-10.

406961-1339-2
J2416

Figure 6. Serial Number Checklist (Sheet 2 of 2)

1. NOMENCLATURE: HELICOPTER		2. MODEL: OH-58D	3. SERIAL NUMBER		
4. INSP NO	5. ITEM TO BE INSPECTED	6. REFERENCE	7. FREQUENCY	8. NEXT DUE	9. COMPLETED AT
	HELICOPTER PREVENTIVE MAINTENANCE SERVICES	TM 1-1520-248-PPM	20 H		
	HELICOPTER PREVENTIVE MAINTENANCE SERVICES	TM 1-1520-248-PPM	14 D		
	HELICOPTER PPM INSPECTION CHECKLIST	TM 1-1520-248-PPM	40 H		
	ENGINE RUN-UP	TM 1-1520-248-23	14 D		
	LUBRICATE TAIL ROTOR PITCH CHANGE MECHANISM	TM 1-1520-248-23	100 H		
	LUBRICATE TAIL ROTOR HANGER BEARINGS	TM 1-1520-248-23	80 H		
	LUBRICATE MMS SUPPORT BEARING	TM 1-1520-248-23	40 H		
	LUBRICATE PITCH CHANGE LINK BEARING	TM 1-1520-248-23	40 H		
	LUBRICATE SWASHPLATE BEARING	TM 1-1520-248-23	40 H		
	AIRCRAFT INVENTORY (DA FORM 2408-17)	TM 1-1520-248-23	12 M		
	INSPECT/TEST OAT/FAT GAGE	TM 1-1520-248-23	12 M		
	MAIN ROTOR MAST ASSY	TM 1-1520-248-23	1200 H		
FREQUENCY LEGEND: H = ACFT HRS, D = DAYS, M = MONTHS, Y = YRS, R = ROUNDS, C = CYCLES, S = STARTS					

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J2416

Figure 7. Equipment Inspection List (Sheet 1 of 4)
(Example DA Form 2408-18)

1. NOMENCLATURE: HELICOPTER		2. MODEL: OH-58D	3. SERIAL NUMBER		
4. INSP NO	5. ITEM TO BE INSPECTED	6. REFERENCE	7. FREQUENCY	8. NEXT DUE	9. COMPLETED AT
	PILOT SEAT COVER	TM 1-1520-248-23	24 M		
	COPILOT/GUNNER SEAT COVER	TM 1-1520-248-23	24 M		
	PMCS NICKEL-CADMIUM BATTERY NUMBER 1	TM 11-6140-203-23	50 H		
	PMCS NICKEL-CADMIUM BATTERY NUMBER 1	TM 11-6140-203-23	100 H		
	PMCS NICKEL-CADMIUM BATTERY NUMBER 1	TM 11-6140-203-23	30 D		
	PMCS NICKEL-CADMIUM BATTERY NUMBER 1	TM 11-6140-203-23	180 D		
	PMCS NICKEL-CADMIUM BATTERY NUMBER 2	TM 11-6140-203-23	50 H		
	PMCS NICKEL-CADMIUM BATTERY NUMBER 2	TM 11-6140-203-23	100 H		
	PMCS NICKEL-CADMIUM BATTERY NUMBER 2	TM 11-6140-203-23	30 D		
	PMCS NICKEL-CADMIUM BATTERY NUMBER 2	TM 11-6140-203-23	180 D		
	PERFORM MAGNETIC COMPASS COMPENSATION	TM 1-1520-248-23	12 M		
	FIRST AID KIT	TM 1-1500-204-23	12 M / NEXT DUE		
	PMCS ENGINE	TM 55-2840-256-23 TM 1-2840-263-23	100 H		
	REPLACE ENGINE FUEL FILTER ELEMENT	TM 55-2840-256-23 TM 1-2840-263-23	200 H		
	DRAIN/SERVICE ENGINE OIL SYSTEM	TM 55-2840-256-23 TM 1-2840-263-23 TM 1-1520-248-23	200 H		
FREQUENCY LEGEND: H = ACFT HRS, D = DAYS, M = MONTHS, Y = YRS, R = ROUNDS, C = CYCLES, S = STARTS					

406961-1371-2
J3323

Figure 7. Equipment Inspection List (Sheet 2 of 4)
(Example DA Form 2408-18)

1. NOMENCLATURE: HELICOPTER		2. MODEL: OH-58D	3. SERIAL NUMBER			
4. INSP NO	5. ITEM TO BE INSPECTED	6. REFERENCE	7. FREQUENCY	8. NEXT DUE	9. COMPLETED AT	
	PMCS ENGINE	TM 55-2840-256-23 TM 1-2840-263-23	300 H			
	PMCS ENGINE	TM 55-2840-256-23 TM 1-2840-263-23	600 H			
	FIRE EXTINGUISHER	TM 1-1520-248-23	6 M			
	GROUND RECEPTACLE	TM 1-1520-248-23	6 M			
	FUELING RECEIVER GROUND STRAP	TM 1-1520-248-23	6 M			
	DRAIN HYDRAULIC RESERVOIR AND INSPECT FOR CORROSION	TM 1-1520-248-23	6 M			
	PMCS MAST MOUNTED SIGHT	TM 9-1240-778-23	100 H			
	PMCS MAST MOUNTED SIGHT	TM 9-1240-778-23	300 H			
	AIRCRAFT WEIGHT AND BALANCE UPDATE (365-4)	TM 1-1520-248-23 AR 95-1	90 D			
	AIRCRAFT WEIGHT AND BALANCE UPDATE (365-1)	TM 1-1520-248-23 AR 95-1	12 M			
	AIRCRAFT WEIGHT AND BALANCE UPDATE (365-2)	TM 1-1520-248-23 AR 95-1	36 M			
	DRAIN/SERVICE TAIL ROTOR GEARBOX OIL	TM 1-1520-248-23	120 H			
	SERVICE TAIL ROTOR GEARBOX OIL	TM 1-1520-248-23	12 M			
	DRAIN/SERVICE TRANSMISSION OIL	TM 1-1520-248-23	300 H			
	DRAIN/SERVICE TRANSMISSION OIL	TM 1-1520-248-23	12 M			
	LUBRICATE HYDRAULIC PUMP SPLINE DRIVE	TM 1-1520-248-23	200 H			
FREQUENCY LEGEND: H = ACFT HRS, D = DAYS, M = MONTHS, Y = YRS, R = ROUNDS, C = CYCLES, S = STARTS						

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J3323

Figure 7. Equipment Inspection List (Sheet 3 of 4)
(Example DA Form 2408-18)

1. NOMENCLATURE: HELICOPTER		2. MODEL: OH-58D	3. SERIAL NUMBER		
4. INSP NO	5. ITEM TO BE INSPECTED	6. REFERENCE	7. FREQUENCY	8. NEXT DUE	9. COMPLETED AT
	CLEAN AND INSPECT PARTICLE SEPARATOR	TM 1-1520-248-23	300 H		
	CLEAN, INSPECT AND OIL ENGINE BARRIER FILTER (IF EQUIPPED) TM 1-1520-248-23	TM 1-1520-248-23	120 H		
	REPLACE CARGO HOOK	TM 1-1520-248-T	36 M		
	PERFORM ENGINE CHIP DETECTOR TEST	TM 1-1520-248-T	100 H		
	PERFORM TAIL ROTOR GEARBOX TRANSMISSION AND FREEWHEELING UNIT CHIP DETECTOR TEST	TM 1-1520-248-T	160 H		
	PERFORM TAIL ROTOR GEARBOX TRANSMISSION AND FREEWHEELING UNIT CHIP DETECTOR TEST	TM 1-1520-248-23	12 M		
	VISUAL INSPECTION OF TAILBOOM GEARBOX SUPPORT AREA	TM 1-1520-248-23	10 H		
	VISUAL INSPECTION OF TAILBOOM GEARBOX SUPPORT AREA	TM 1-1520-248-23 TM 9-1090-214-23 & P	40 H		
	IMPULSE CARTRIDGE REPLACEMENT	TM 1-1520-248-23	36 M		
	FLUORESCENT PENETRANT INSPECTION OF TAILBOOM GEARBOX SUPPORT AREA	TM 1-1520-248-23	40 H		
	FLUORESCENT PENETRANT INSPECTION OF TAILBOOM GEARBOX SUPPORT AREA	TM 1-1520-248-23	160 H		
	AIRCRAFT CLEANING	TM 1-1500-344-23	30 D		
	INTERNALLY CLEAN AN/ALQ-144(A)V1	TM 11-5865-200-34	80 H		
	VISUAL INSPECTION OF OIL COOLER FAN FOR CLEANLINESS	TM 1-1520-248-23	80 H		
FREQUENCY LEGEND: H = ACFT HRS, D = DAYS, M = MONTHS, Y = YRS, R = ROUNDS, C = CYCLES, S = STARTS					

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J3323

Figure 7. Equipment Inspection List (Sheet 4 of 4)
(Example DA Form 2408-18)

REQUIREMENT NUMBER	PPM INSPECTION NUMBER														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2.1		X							X						
2.2	X							X							
2.3	X							X							
2.4	X							X							
2.5	X							X							
2.6	X							X							
2.7	X							X							
2.8		X		X		X		X		X		X		X	
3.1			X			X			X			X			X
3.2			X			X			X			X			X
3.3			X			X			X			X			X
3.4			X							X					
3.5			X							X					
3.6			X							X					
3.7			X							X					
3.8			X							X					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

406961-1372-1
J1725

Table 1. Progressive Inspection Checklist Maintenance Management Matrix (Sheet 1 of 7)

REQUIREMENT NUMBER	PPM INSPECTION NUMBER														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3.9			X							X					
4.1			X							X					
4.2			X							X					
5.1					X								X		
5.2					X								X		
5.3			X								X				
5.4			X								X				
5.5			X								X				
5.6			X								X				
5.7			X							X					
5.8	X		X								X				
5.9			X			X			X			X			X
5.10			X			X			X			X			X
6.1	X		X		X		X		X		X		X		X
6.2	X		X		X		X		X		X		X		X
6.3	X		X		X		X		X		X		X		X
6.4	X		X		X		X		X		X		X		X
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

406961-1372-2
J3323

Table 1. Progressive Inspection Checklist Maintenance Management Matrix (Sheet 2 of 7)

REQUIREMENT NUMBER	PPM INSPECTION NUMBER														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
7.1	X		X		X		X		X		X		X		X
7.2	X							X							
7.3		X								X					
7.4		X								X					
7.5	X			X			X			X			X		
7.6		X								X					
8.1		X		X		X		X		X		X		X	
8.2	X		X		X		X		X		X		X		X
8.3	X							X							
8.4		X								X					
8.5		X								X					
8.6		X		X		X		X		X		X		X	
8.7		X		X		X		X		X		X		X	
8.8		X		X		X		X		X		X		X	
9.1		X							X						
9.2		X							X						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

406961-1372-3
J3323

Table 1. Progressive Inspection Checklist Maintenance Management Matrix (Sheet 3 of 7)

REQUIREMENT NUMBER	PPM INSPECTION NUMBER														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
9.3		X							X						
9.4		X							X						
9.5				X								X			
10.1	X		X		X		X		X		X		X		X
11.1	X								X						
11.2	X								X						
11.3	X								X						
11.4	X								X						
11.5			X			X			X			X			X
12.1			X			X			X			X			X
12.2			X			X			X			X			X
12.3			X			X			X			X			X
12.4			X							X					
12.5			X							X					
12.6			X							X					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

406961-1372-4
J2416

Table 1. Progressive Inspection Checklist Maintenance Management Matrix (Sheet 4 of 7)

REQUIREMENT NUMBER	PPM INSPECTION NUMBER														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
12.7			X							X					
12.8			X							X					
12.9			X							X					
13.1		X							X						
13.2	X							X							
13.3	X							X							
13.4	X							X							
13.5	X							X							
13.6	X							X							
13.7	X							X							
13.8		X		X		X		X		X		X		X	
14.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14.2						X								X	
14.3						X								X	
14.4						X								X	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

406961-1372-5
J3297

Table 1. Progressive Inspection Checklist Maintenance Management Matrix (Sheet 5 of 7)

REQUIREMENT NUMBER	PPM INSPECTION NUMBER														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
14.5						X								X	
14.6						X								X	
14.7						X								X	
14.8						X								X	
14.9						X								X	
14.10						X								X	
14.11						X								X	
14.12						X								X	
14.13			X			X			X			X			X
14.14	X							X							
14.15			X			X			X			X			X
14.16			X			X			X			X			X
15.1			X			X			X			X			X
17.1								X							X
17.2			X			X			X			X			X
17.3															X
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

406961-1372-6
J3323

Table 1. Progressive Inspection Checklist Maintenance Management Matrix (Sheet 6 of 7)

REQUIREMENT NUMBER	PPM INSPECTION NUMBER														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
P.1								X							X
P.2								X							X
F.1								X							X
F.2								X							
F.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

406961-1372-7
J1725

Table 1. Progressive Inspection Checklist Maintenance Management Matrix (Sheet 7 of 7)

THIS DIVIDER WILL BE USED TO SEPARATE ALL MAINTENANCE RELATED FORMS DURING THE COMPLETION OF THE CURRENT PPM. ONCE COMPLETED, ALL FORMS WILL BE CONSOLIDATED WITH THE PPM INSPECTION CHECKLIST AND PLACED INTO THE 6 MONTH FILE AS DIRECTED BY DA PAM 738-751.

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 1

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H
2.2	Cyclic and collective stick friction adjuster for condition and proper operation. Collective friction checked using spring scale. (Access 17)(Tasks 11-2-24 and 11-3-26)	_____	_____	_____
2.3	Cyclic torque tube for cracks, distortion, corrosion, condition, and security. Bearings for binding or excessive wear. (Access 17)(Remove pilot armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____
2.4	Cyclic control pivot assembly for damage, corrosion, condition, and security. Bearings for binding or excessive wear. (Access 17)(Remove pilot armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____
2.5	Flight control push-pull tubes and bellcranks for chafing, damage, excessive wear, binding, corrosion, condition, and security. Bearings for binding or excessive wear. (Access 17)(Remove pilot armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____
2.6	Collective stick support for damage. Jackshaft for corrosion, condition, and security. (Access 17)(Remove pilot armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
2.7	Armor seat panel for cracks, delamination, and security. (Access 17)(Remove pilot armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____	
5.8	Bleed air lines for chafing, leakage, and security of connections. (Access 25)	_____	_____	_____	
6.1	Tail rotor forward fanshaft bearing support bracket (particularly lower portion) for cracks and link assembly, supporting deck panel, and inserts for condition and security. (Task 6-6-14) (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.2	Engine oil tank and cooler for leaks and damage. Crazed or discolored sight gauge. Support, deck, and attaching hardware for damage and security. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.3	Oil cooler support panel for cracks (around forward fanshaft bearing support bracket inserts), panel punctures, voids, and loose or missing rivets. (Task 6-6-14) Paint for chipped or peeling condition. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.4	Oil cooler fan impeller for cleanliness. (Task 6-6-13)	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
7.1	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
7.2	Horizontal stabilizer, fold, inspect condition of expandable bolts, hinge assembly, and condition of electrical wiring. (Task 2-3-29)	_____	_____	_____	
7.5	Clean tail rotor gearbox chip detector.	_____	_____	_____	
8.2	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
8.3	Horizontal stabilizer, fold, inspect condition of expandable bolts, hinge assembly, and condition of electrical wiring. (Task 2-3-29)	_____	_____	_____	
11.1	Engine deck for cracks, punctures, and loose or missing rivets. (Access 1)	_____	_____	_____	
11.2	Engine deck for cracks, punctures, and loose or missing rivets. (Access 1)	_____	_____	_____	
11.3	Freewheeling unit and main driveshaft for cracked tabs, obvious damage, binding, security, and leakage. (Access 1)	_____	_____	_____	

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
11.4	Clean freewheeling assembly chip detector. (Access 1)	_____	_____	_____	
13.2	Cyclic and collective stick friction adjuster for condition and proper operation. Collective friction checked using spring scale. (Access 11)(Tasks 11-2-24 and 11-3-26)	_____	_____	_____	
13.3	Cyclic torque tube for cracks, distortion, corrosion, condition, and security. Bearings for binding or excessive wear. (Access 11)(Remove CPG armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____	
13.4	Cyclic control pivot assembly for damage, corrosion, condition, and security. Bearings for binding or excessive wear. (Access 11)(Remove CPG armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____	
13.5	Flight control push-pull tubes and bellcranks for chafing, damage, excessive wear, binding, corrosion, condition, and security. Bearings for binding or excessive wear. (Access 11)(Remove CPG armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____	
13.6	Collective stick support for damage. Jackshaft for corrosion, condition, and security. (Access 11)(Remove CPG armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
13.7	Armor seat panel for cracks, delamination, and security. (Access 11)(Remove CPG armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____	
14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____	
14.14	Clean and inspect inlet shield for mechanical and corrosion damage, components for security, loose or missing hardware or rivets, organic coating damage, door for ease of opening and security, and seal for presence, condition, and security. (Off helicopter)(Remove inlet shield, Task 2-2-45)	_____	_____	_____	
F.3	Verify that all PPM requirements were completed and aircraft logbook updated.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

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Figure 5. Signature Sheet

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 2

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H
2.1	Directional control pedals, bellcranks, and control linkage for excessive wear, binding, condition, and security. (Access 17 and 29)	_____	_____	_____
2.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 17)	_____	_____	_____
7.3	Nonrotating control linkage at tail rotor gearbox for damage and security. Bearings for binding or worn condition. Control tube and bushing for alignment of vent holes. (Pull back dust boot)	_____	_____	_____
7.4	Pitch change tube (exposed portion) for damage, corrosion, and security. Boot for cuts, tears, deterioration, and security.	_____	_____	_____
7.6	Remove, clean, and install tail rotor gearbox vent filter.	_____	_____	_____
8.1	Visually inspect tail rotor assembly. (Task 5-4-1) (On helicopter)	_____	_____	_____

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
8.4	Tail rotor control push-pull tubes for chafing, corrosion, and security. Bearings for binding or excess wear. (Access 8 and 29)	_____	_____	_____	
8.5	Tail rotor control bellcranks for damage, condition of bearings, and security. (Access 8 and 29)	_____	_____	_____	
8.6	Tail rotor balancing (Dynamic).	_____	_____	_____	
8.7	Remove tail cone and inspect tail rotor gearbox support assembly for cracks and loose rivets.	_____	_____	_____	
8.8	Inspect tail skid.	_____	_____	_____	
9.1	Directional hydraulic actuator, supports, and controls linkage for damage, excessive wear, binding, security, and leakage. (Access 8)	_____	_____	_____	
9.2	Heater control cable for condition and security. (Access 7 and 10)(Task 12-1-10)	_____	_____	_____	
9.3	Heater mixing valve area for evidence of air leakage. (Access 7 and 10)	_____	_____	_____	
9.4	Heater air ducts for cracks, cuts, tears, and security. (Access 7 and 10)(Task 12-1-11)	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
13.1	Directional control pedals, bellcranks, and control linkage for excessive wear, binding, condition, and security. (Access 11 and 29)	_____	_____	_____	
13.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 11)	_____	_____	_____	
14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____	
F.3	Verify that all PPM requirements were completed and aircraft logbook updated.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

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Figure 5. Signature Sheet

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 3

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
3.1	Avionics compartment floor for punctures, cracks, voids, and cleanliness. Paint and decals for chipped or peeling condition. (Access 19)	_____	_____	_____	
3.2	Avionics compartment structure for cracks, corrosion, condition, security, and loose or missing rivets. (Access 19)	_____	_____	_____	
3.3	Mounting bolts for transverse beams in roof for security. Support straps for cracks and security. (Access 19)	_____	_____	_____	
3.4	Fuel cell access cover for voids, punctures, loose Rosan studs, dents, and missing hardware. Paint and decals for chipped or peeling condition. (Access 19)	_____	_____	_____	
3.5	Ng control cable assembly for condition and security. (Access 19)(Access center post, Task 2-2-69)	_____	_____	_____	
3.6	Flight control bellcranks and bearings for condition and security. (Access 19)(Access center post, Task 2-2-69)	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
3.7	Flight control push-pull tubes for chafing, corrosion, condition, and security. Bearings for binding or excessive wear. Inspect cap angles (four long corner extrusion support angles) for buckling and bending. (Access 19)(Access center post, Task 2-2-69)	_____	_____	_____	
3.8	Collective link assembly for condition and security. Bearings for binding or excessive wear. Inspect center post area for FOD. (Access 19)(Access center post, Task 2-2-69)	_____	_____	_____	
3.9	Heater control cable for condition and security. (Access 19)(Task 12-1-10)	_____	_____	_____	
4.1	Tailboom attachment fittings for corrosion, cracks, and loose rivets. Bolts for torque stripe alignment. (Access 23)(Tasks 2-3-3 and 2-3-4)	_____	_____	_____	
4.2	Engine vent and fuel supply hose for chafing, leakage, and security of connections. (Access 20)(Task 10-1-9)	_____	_____	_____	
5.3	Starter-generator brushes. (Access 25)(Task 9-3-13)	_____	_____	_____	
5.4	Starter-generator drive spline for wear. (Access 25)(Tasks 9-3-1 and 9-3-14)	_____	_____	_____	

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H
5.5	Engine firewall sealing strips for cuts, tears, deterioration, and security. (Remove engine cowling, Task 2-2-50)			
5.6	Engine deck for cracks, punctures, and loose or missing rivets. (Access 25)			
5.7	Remove fuel shutoff access panel and view valve externally. Do not remove valve. (Access 19)(Task 10-1-6)			
5.8	Bleed air lines for chafing, leakage, and security of connections. (Access 25)			
5.9	Fireshield drain tube, exhaust drain tube, and combustor drain tube for blockage and chafing.			
5.10	Clean and inspect; EBF engine filter for condition, security, and obstruction; air induction cowl inlet plenum for mechanical and corrosion damage; components for security; loose or missing hardware or rivets; organic coating for damage; seals for presence, condition, dirt trails, and security.			
6.1	Tail rotor forward fanshaft bearing support bracket (especially lower portion) for cracks and link assembly, supporting deck panel, and inserts for condition and security. (Task 6-6-14) (Remove aft fairing, Task 2-2-55)			

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
6.2	Engine oil tank and cooler for leaks and damage. Crazed or discolored sight gauge. Support, deck, and attaching hardware for damage and security. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.3	Oil cooler support panel for cracks (around forward fanshaft bearing support bracket inserts), panel punctures, voids, and loose or missing rivets. (Task 6-6-14) Paint for chipped or peeling condition. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.4	Oil cooler fan impeller for cleanliness. (Task 6-6-13)	_____	_____	_____	
7.1	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
8.2	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
11.5	Clean and inspect; EBF engine filter and bleed air filter for condition, security, and obstruction; air induction cowl inlet plenum for mechanical and corrosion damage; components for security; loose or missing hardware or rivets; organic coating for damage; seals for presence, condition, dirt trails, and security.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
12.1	Avionics compartment floor for punctures, cracks, voids, and cleanliness. Paint and decals for chipped or peeling condition. (Access 10)	_____	_____	_____	
12.2	Avionics compartment structure for cracks, corrosion, condition, security, and loose or missing rivets. (Access 10)	_____	_____	_____	
12.3	Mounting bolts for transverse beams in roof for security. Support straps for cracks and security. (Access 10)	_____	_____	_____	
12.4	Fuel cell access cover for voids, punctures, loose Rosan studs, dents, and missing hardware. Paint and decals for chipped or peeling condition. (Access 10)	_____	_____	_____	
12.5	Ng control cable assembly for condition and security. (Access 10)(Access center post, Task 2-2-69)	_____	_____	_____	
12.6	Flight control bellcranks and bearings for condition and security. (Access 10)(Access center post, Task 2-2-69)	_____	_____	_____	
12.7	Flight control push-pull tubes for chafing, corrosion, condition, and security. Bearings for binding or excessive wear. Inspect cap angles (four long corner extrusion support angles) for buckling and bending. (Access 10)(Access center post, Task 2-2-69)	_____	_____	_____	

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
12.8	Collective link assembly for condition and security. Bearings for binding or excessive wear. Inspect center post area for FOD. (Access 10)(Access center post, Task 2-2-69)	_____	_____	_____	
12.9	Heater control cable for condition and security. (Access 10)(Task 12-1-10)	_____	_____	_____	
14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____	
14.13	Perform spring tension check on main rotor expandable bolts. (Task 5-1-6)	_____	_____	_____	
14.15	EBF system bypass door actuator for security and condition.	_____	_____	_____	
14.16	Right access door FOD screen for condition and security.	_____	_____	_____	
15.1	Perform landing gear crosstube deflection check. (Task 3-1-3 or 3-1-4)	_____	_____	_____	
17.2	UWP mount fittings visual inspection for loose or missing fasteners, nicks, scratches, gouges, and overall condition. (Task 2-2-94 except UWP is not removed)	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H
F.3	Verify that all PPM requirements were completed and aircraft logbook updated.	_____	_____	_____

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

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Figure 5. Signature Sheet

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 4

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
2.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 17)	_____	_____	_____	
7.5	Clean tail rotor gearbox chip detector.	_____	_____	_____	
8.1	Visually inspect tail rotor assembly (Task 5-4-1) (On helicopter).	_____	_____	_____	
8.6	Tail rotor balancing (Dynamic).	_____	_____	_____	
8.7	Remove tail cone and inspect tail rotor gearbox support assembly for cracks and loose rivets.	_____	_____	_____	
8.8	Inspect tail skid.	_____	_____	_____	
9.5	Lines and hoses for chafing and security of connections. (Access 8 and 10)	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H
13.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 11)	_____	_____	_____
14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____
F.3	Verify that all PPM requirements were completed and aircraft logbook updated.	_____	_____	_____

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

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Figure 5. Signature Sheet

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 5

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
5.1	Fuel control (OH-58D) or HMU (OH-58D(R) (Ng) lever and clevis bolt hole for elongation. Inspect bolt on fuel control lever for fretting, corrosion, and wear. (Access 25)	_____	_____	_____	
5.2	Ng control cable boot for cuts, tears, cracks, and security. Ensure that the inside is not gummy. (Access 25)	_____	_____	_____	
6.1	Tail rotor forward fanshaft bearing support bracket (especially lower portion) for cracks and link assembly, supporting deck panel, and inserts for condition and security. (Task 6-6-14) (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.2	Engine oil tank and cooler for leaks and damage. Crazed or discolored sight gauge. Support, deck, and attaching hardware for damage and security. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.3	Oil cooler support panel for cracks (around forward fanshaft bearing support bracket inserts), panel punctures, voids, and loose or missing rivets. (Task 6-6-14) Paint for chipped or peeling condition. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.4	Oil cooler fan impeller for cleanliness. (Task 6-6-13)	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
7.1	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
8.2	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____	
F.3	Verify that all PPM requirements were completed and aircraft logbook update.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

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Figure 5. Signature Sheet

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 6

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
2.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 17)	_____	_____	_____	
3.1	Avionics compartment floor for punctures, cracks, bonding separation, and cleanliness. Paint and decals for chipped or peeling condition. (Access 19)	_____	_____	_____	
3.2	Avionics compartment structure for cracks, corrosion, condition, security, and loose or missing rivets. (Access 19)	_____	_____	_____	
3.3	Mounting bolts for transverse beams in roof for security. Support straps for cracks and security. (Access 19)	_____	_____	_____	
5.9	Fireshield drain tube, exhaust drain tube, and combustor drain tube for blockage and chafing.	_____	_____	_____	
5.10	Clean and inspect; EBF engine filter for condition, security, and obstruction; air induction cowl inlet plenum for mechanical and corrosion damage; organic coating for damage; seals for presence, condition, dirt trails, and security.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H
8.1	Visually inspect tail rotor assembly (Task 5-4-1) (On helicopter).			
8.6	Tail rotor balancing (Dynamic).			
8.7	Remove tail cone and inspect tail rotor gearbox support assembly for cracks and loose rivets.			
8.8	Inspect tail skid.			
11.5	Clean and inspect; EBF engine filter and bleed air filter for condition, security, and obstruction; air induction cowl inlet plenum for mechanical and corrosion damage; organic coating for damage; seals for presence, condition, dirt trails, and security.			
12.1	Avionics compartment floor for punctures, cracks, bonding separation, and cleanliness. Paint and decals for chipped or peeling condition. (Access 10)			
12.2	Avionics compartment structure for cracks, corrosion, condition, security, and loose or missing rivets. (Access 10)			
12.3	Mounting bolts for transverse beams in roof for security. Support straps for cracks and security. (Access 10)			

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
13.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 11)	_____	_____	_____	
14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____	
14.2	Transmission input quill seal for leakage. (Access 14 and 26)	_____	_____	_____	
14.3	Collective lever (at transmission) for cracks, corrosion, and security. Bearings for binding or excessive wear. (Remove forward fairing assembly. (Task 2-2-47)	_____	_____	_____	
14.4	Swashplate duplex bearing for smoothness. Disconnect drive links and rotor pitch links. Free lower end of boot. Rotate outer ring in both directions. (Tasks 5-2-1, 5-2-3, 5-2-7, 5-2-9, and 5-2-17)	_____	_____	_____	
14.5	Check and adjust main rotor swashplate Uniball friction. (Task 5-2-32)	_____	_____	_____	
14.6	Main rotor mast seal. Check at swashplate support drain holes for evidence of leakage. (Access 14 and 26)	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
14.7	Flight control bellcranks for damage, condition of bearings, and security. (Remove forward fairing assembly, Task 2-2-47)	_____	_____	_____	
14.8	Remove, clean and inspect drive levers. (Tasks 5-2-7, 5-2-8, and 5-2-9)	_____	_____	_____	
14.9	Disconnect pitch links from swashplate. Inspect links for freedom of movement, clearance, and wear. (Tasks 5-2-1, 5-2-2, and 5-2-3)	_____	_____	_____	
14.10	Main rotor hub upper/lower droop stops, buffers, and bumpers for wear. (Tasks 5-1-14, 5-1-35, and 5-1-37)	_____	_____	_____	
14.11	Main rotor hub, elastomeric bearings for deterioration and security.	_____	_____	_____	
14.12	Swashplate for inner ring rotational movement.	_____	_____	_____	
14.13	Perform spring tension check on main rotor expandable bolts. (Task 5-1-6)	_____	_____	_____	
14.15	EBF system bypass door actuator for condition and security.	_____	_____	_____	
14.16	Right access door FOD scren for condition and security.	_____	_____	_____	

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
15.1	Perform landing gear crosstube deflection check. (Task 3-1-3 or 3-1-4)	_____	_____	_____	
17.2	UWP mount fittings visual inspection. Inspect for loose or missing fasteners, nicks, scratches, gouges and overall condition. (Task 2-2-94 except UWP is not removed)	_____	_____	_____	
F.3	Verify that all PPM requirements were completed and aircraft logbook updated.	_____	_____	_____	

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

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Figure 5. Signature Sheet

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 7

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
6.1	Tail rotor forward fanshaft bearing support bracket (especially lower portion) for cracks and link assembly, supporting deck panel, and inserts for condition and security. (Task 6-6-14) (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.2	Engine oil tank and cooler for leaks and damage. Crazed or discolored sight gauge. Support, deck, and attaching hardware for damage and security. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.3	Oil cooler support panel for cracks (around forward fanshaft bearing support bracket inserts), panel punctures, voids, and loose or missing rivets. (Task 6-6-14) Paint for chipped or peeling condition. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.4	Oil cooler fan impeller for cleanliness. (Task 6-6-13)	_____	_____	_____	
7.1	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
7.5	Clean tail rotor gearbox chip detector.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
8.2	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____	
F.3	Verify that all PPM requirements were completed and aircraft logbook updated.	_____	_____	_____	

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

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Figure 5. Signature Sheet

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 8

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H
2.2	Cyclic and collective stick friction adjuster for condition and proper operation. Collective friction checked using spring scale. (Access 17)(Tasks 11-2-24 and 11-3-26)	_____	_____	_____
2.3	Cyclic torque tube for cracks, distortion, corrosion, condition, and security. Bearings for binding or excessive wear. (Access 17)(Remove pilot armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____
2.4	Cyclic control pivot assembly for damage, corrosion, condition, and security. Bearings for binding or excessive wear. (Access 17)(Remove pilot armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____
2.5	Flight control push-pull tubes and bellcranks for chafing, damage, excessive wear, binding, corrosion, condition, and security. Bearings for binding or excessive wear. (Access 17)(Remove pilot armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____
2.6	Collective stick support for damage. Jackshaft for corrosion, condition, and security. (Access 17)(Remove pilot armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

No.	Seq	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
	2.7	Armor seat panel for cracks, delamination, and security. (Access 17)(Remove pilot armor seat panel Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____	
	2.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 17)	_____	_____	_____	
	7.2	Horizontal stabilizer, fold, inspect condition of expandable bolts, hinge assembly, and condition of electrical wiring. (Task 2-3-29)	_____	_____	_____	
	8.1	Visually inspect tail rotor assembly (Task 5-4-1) (On helicopter).	_____	_____	_____	
	8.3	Horizontal stabilizer, fold, inspect condition of expandable bolts, hinge assembly, and condition of electrical wiring. (Task 2-3-29)	_____	_____	_____	
	8.6	Tail rotor balancing (Dynamic).	_____	_____	_____	
	8.7	Remove tail cone and inspect tail rotor gearbox support assembly for cracks and loose rivets.	_____	_____	_____	
	8.8	Inspect tail skid.	_____	_____	_____	

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
13.2	Cyclic and collective stick friction adjuster for condition and proper operation. Collective friction checked using spring scale. (Access 11)(Tasks 11-2-24 and 11-3-26)	_____	_____	_____	
13.3	Cyclic torque tube for cracks, distortion, corrosion, condition, and security. Bearings for binding or excessive wear. (Access 11)(Remove CPG armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____	
13.4	Cyclic control pivot assembly for damage, corrosion, condition, and security. Bearings for binding or excessive wear. (Access 11)(Remove CPG armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____	
13.5	Flight control push-pull tubes and bellcranks for chafing, damage, excessive wear, binding, corrosion, condition, and security. Bearings for binding or excessive wear. (Access 11)(Remove CPG armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____	
13.6	Collective stick support for damage. Jackshaft for corrosion, condition, and security. (Access 11)(Remove CPG armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____	

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
13.7	Armor seat plate for cracks, delamination, and security. (Access 11)(Remove CPG armor seat panel, Task 2-2-33 or seat pan assembly Task 2-2-34)	_____	_____	_____	
13.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 11)	_____	_____	_____	
14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____	
14.14	Clean and inspect inlet shield for mechanical and corrosion damage, components for security, loose or missing hardware or rivets, organic coating damage, door for ease of opening and security, window for cleanliness, clearness, damage and security, and seals for presence, condition and security. (Off helicopter)(Task 2-2-47)	_____	_____	_____	
17.1	Operational check of each major weapons system.	_____	_____	_____	
P.1	Transmission electrical system operational check. (TM 1-1520-248-T, Task 2-6-32 (OH-58D) or Task 2-6-33 (OH-58D(R))	_____	_____	_____	
P.2	Powerplant electrical system operational check. (TM 1-1520-248-T, Task 2-6-34 (OH-58D) or Task 2-6-35 (OH-58D(R))	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

No.	Seq	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H
	F.1	General Maintenance Test Flight (MTF) required.			
	F.2	Complete serial number checklist (Figure 6).			
	F.3	Verify that all PPM requirements were completed and aircraft logbook updated.			

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

OH-58D MTF CHECK SHEET

PURPOSE OF TEST FLIGHT		
ACFT S/N		DATE
PILOT SIGNATURE		UNIT
ACFT WT:	DA BASELINE	DA TODAY

SYMBOLS ✓ = SATISFACTORY X = DEFICIENCY

	PRIOR TO MAINTENANCE TEST		19 DEFOG SYSTEM
	FLIGHT		20 HTR
	1 FORMS AND RECORDS		21 MASK BLWR
	2 FLIGHT READINESS INSP		22 PITOT HTR
	BEFORE STARTING ENGINE CHECKS		23 FUEL BOOST
	1 FAT_____˚C		24 AC GEN
	2 MAG COMPASS HDG _____		25 ENG ANTI-ICE
	3 CW SYSTEM		26 BATT PRHT
	4 ENGINE HISTORY		27 BIT CHKS
	5 MPD		28 AVX CHKS
	ENGINE START/RUNUP CHECKS		BEFORE HOVER CHECKS
	1 START TGT (PEAK) ——— ˚C		1 SYSTEMS
	2 START TIME ___ SEC		XMSN OIL P ___ psi
	3 EBF CHECK		XMSN OIL T ___ ˚C
	4 EGI CHECK		ENG OIL P___ psi
	SYSTEM CHECKS		ENG OIL T___ ˚C
	1 MFD BIT CODE		NG ___ %
	2 RFD		ENG TRQ ___ %
	3 FORCE TRIM		TGT ___ ˚C
	4 CYCLIC CHECK (lbs)		MAST TRQ ___ %
	FORE ___ AFT____		2 STBY ALTIMETER
	LEFT___ RIGHT____		3 MFD CHK
	5 COLLECTIVE ___ (lbs)		HOVER CHECKS
	6 PEDALS ___ (lbs)		1 POWER ASSURANCE CHECK
	7 HYDRAULIC SYSTEM		FAT ____˚C TGT_____˚C
	8 ENGINE IDLE SPEED		PA ___ feet
	9 IDLE RELEASE		ENG TRQ (chart) ____ %
	10 FUEL CONTROL OVERSPEED		ENG TRQ (actual) %
	11 THROTTLE OPEN CHKS		2 HOVER POWER CHECK
	12 NP TRIM		MAST TRQ ___ %
	13 MAST TRQ		TGT____˚C NG___ %
	14 HIGH RPM ROTOR WARNING		3 CONTROL RIGGING CHECK
	15 SCAS REL		4 SCAS CHECK
	16 SCAS TEST		5 HEADING HOLD
	17 HEADING HOLD		6 POWER CYLINDER CHECK
	18 COMPT BLWR		

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Figure 3. OH-58D Maintenance Test Flight Check Sheet (Suggested Format) (Sheet 1 of 2)

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

OH-58D MTF CHECK SHEET (CONT)

SYMBOLS ✓ = SATISFACTORY X = DEFICIENCY			
	7 ENGINE RESPONSE AND		MAST TRQ__%
	FUEL CONTROL CHECK		2 FDL/BIT
	8 HOVER BOB UP CHECK		3 BATTERY CHECKS
	9 FLT INSTRUMENTS CHKS		4 THROTTLE OFF CHECKS
	INFLIGHT CHECKS		5 LAST FLIGHT RECALL
	1 RADAR ALTIMETER		FC1 ___ FC2 ___
	2 CONTROL RIGGING		FC3 ___ FC4 ___
	3 AUTOROTATION NR___ %		FC5 ___ FC6 ___
	4 HYDRAULIC SYSTEMS		6 POSTFLIGHT INSPECTION
	5 COLLECTIVE ANTICIPATOR		7 COMPLETE UPDATE FORMS
	6 VIBRATION ANALYSIS		AND RECORDS
	7 FLIGHT INSTRUMENTS		SPECIAL EQUIPMENT CHECKS
	VSD		1 ATHS
	SLIP INDICATOR		2 NAV SYSTEM
	8 STANDBY INSTRUMENTS		PRESENT POSITION _____
	MAGNETIC COMPASS		ACTUAL POSITION _____
	9 COMMUNICATIONS		CIRCULAR ERROR _____
	FM 1 ___ UHF___		3 GPS
	VHF ___ HF___		4 AIRBORNE CALIBRATION
	FM 2 ___ HOMING___		5 COMPASS COMPENSATION
	SECURE EQUIP ___		6 MMSS
	10 TRANSPONDER		7 ADSS
	11 FUEL CONSUMPTION CHECK		8 AVTR
	STOP TIME ___ QTY___		9 DTS
	START TIME ___QTY___		10 ASE
	FLOW RATE___pph		APR-39 ___ AVR-2___
	ENGINE SHUTDOWN CHECKS		ALQ-144 ___ APR-44 ___
	1 SYSTEMS		11 WPNS SYS
	XMSN OIL P___psi		PDU ___ ATAS ___
	XMSN OIL T___°C		MG ___ HF ___
	ENG OIL P___psi		RKTS ___
	ENG OIL T___°C		
	NG___%		
	ENG TRQ___%		
	TGT___°C		

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Figure 3. OH-58D Maintenance Test Flight Check (Suggested Format) (Sheet 2 of 2)

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

OH-58D (R) MTF CHECK SHEET

PURPOSE OF TEST FLIGHT		
ACFT S/N		DATE
PILOT SIGNATURE		UNIT
ACFT WT:	DA BASELINE	DA TODAY

SYMBOLS ✓ = SATISFACTORY X = DEFICIENCY

	PRIOR TO MAINTENANCE TEST		17 HEADING HOLD
	FLIGHT		18 COMPT BLWR
	1 FORMS AND RECORDS		19 DEFOG SYSTEM
	2 FLIGHT READINESS INSP		20 HTR
	BEFORE STARTING ENGINE CHECKS		21 PITOT HTR
	1 FAT_____°C		22 FUEL BOOST
	2 MAG COMPASS HDG _____		23 AC GEN
	3 AUDIO TONE		24 ENG ANTI ICE
	4 FADEC MONITOR		25 BATT PRHT
	5 PARK HMU		26 BIT CHKS
	6 MPD		27 AVX CHKS
	ENGINE START/RUNUP CHECKS		BEFORE HOVER CHECKS
	1 START TGT (PEAK) _____°C		1 SYSTEMS
	2 START TIME _____ SEC		XMSN OIL P _____ psi
	3 EBF CHECK		
	4 EGI CHECKS		XMSN OIL T _____ °C
	SYSTEM CHECKS		ENG OIL P _____ psi
	1 MFD BIT CODE		ENG OIL T _____ °C
	2 RFD		NG _____ %
	3 FORCE TRIM		ENG TRQ _____ %
	4 CYCLIC CHECK (lbs)		TGT _____ °C
	FORE _____ AFT_____		MAST TRQ _____ %
	LEFT _____ RIGHT _____		2 STBY ALTIMETER
	5 COLLECTIVE _____ (lbs)		3 MFD CHECKS
	6 PEDALS _____ (lbs)		HOVER CHECKS
	7 HYDRAULIC SYSTEM		1 POWER ASSURANCE CHECK
	8 ENG IDLE SPEED		FAT _____°C TGT _____ °C
	9 IDLE RELEASE		PA _____ feet
	10 FADEC (PMA)		ENG TRQ (chart) _____ %
	11 THROTTLE OPEN CHKS		ENG TRQ (actual) _____ %
	12 NP TRIM		2 HOVER POWER CHECK
	13 MAST TRQ		MAST TRQ _____ %
	14 HIGH RPM ROTOR WARNING		TGT _____ °C NG _____ %
	15 SCAS REL		3 CONTROL RIGGING CHECK
	16 SCAS TEST		4 SCAS CHECK

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Figure 4. OH-58D (R) Maintenance Test Flight Check Sheet (Suggested Format) (Sheet 1 of 3)

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

OH-58D (R) MTF CHECK SHEET (CONT)

SYMBOLS	✓ = SATISFACTORY	X = DEFICIENCY
5 HEADING HOLD		MAST TRQ ____ %
6 POWER CYLINDER CHECK		2 FADEC MAINT CODE
7 ENGINE RESPONSE		3 BATTERY CHECKS
8 FADEC MANUAL		4 OVERSPEED TEST
9 HOVER BOB-UP CHECK		5 THROTTLE OFF CHKS
10 FLT INSTRUMENT CHKS		6 RECALL L/R IMPCU
INFLIGHT CHECKS		1960 CPU CCA
1 RADAR ALTIMETER		1553 I/O CCA
2 CONTROL RIGGING		DIGITAL I/O CCA
3 AUTOROTATION NR _____ %		ANALOG I/O CCA
4 HYDRAULIC SYSTEM		ADSS I/O CCA
5 COLLECTIVE ANTICIPATOR		SYS GEN CCA
6 VIBRATION ANALYSIS		WPNS CCA
7 FLIGHT INSTRUMENTS		ASE CCA
VSD		RMS CCA
SLIP INDICATOR		VTR CCA
8 STANDBY INSTRUMENTS		VIXL CCA
MAGNETIC COMPASS		SCAS BIT
9 COMMUNICATIONS		MISC BIT
FM 1 _____ FM 2 _____		7 POSTFLIGHT INSPECTION
VHF _____ UHF_____		8 COMPLETE UPDATE FORMS
VOX		AND RECORDS
SECURE EQUIP _____		SPECIAL EQUIPMENT CHECKS
10 TRANSPONDER		1 IDM
11 RMS CHK		2 NAV SYSTEM
12 FUEL CONSUMPTION CHECK		PRESENT POSITION _____
STOP TIME _____ QTY_____		ACTUAL POSITION _____
START TIME _____ QTY_____		CIRCULAR ERROR _____
FLOW RATE _____ pph		3 GPS
ENGINE SHUTDOWN CHECKS		4 AIRBORNE CALIBRATION
1 SYSTEMS		5 COMPASS COMPENSATION
XMSN OIL P _____ psi		6 MMSS
XMSN OIL T _____ ˚C		7 ADSS
ENG OIL P_____ psi		8 AVTR
ENG OIL T _____ ˚C		9 DTS
NG _____ %		10 ASE
ENG TRQ _____ %		APR-39 _____ AVR-2 _____
TGT _____ ˚C		

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Figure 4. OH-58D (R) Maintenance Test Flight Check Sheet (Suggested Format) (Sheet 2 of 3)

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

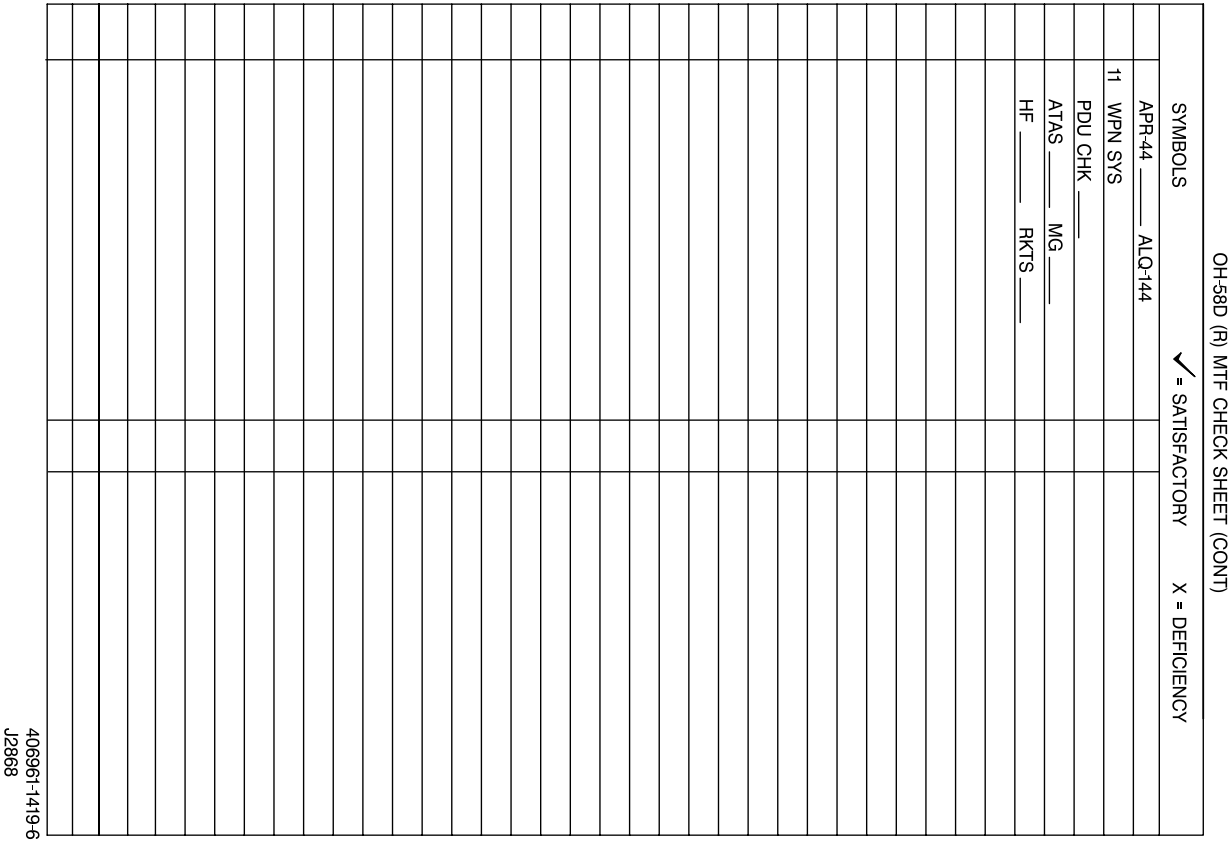

Figure 4. OH-58D (R) Maintenance Test Flight Check Sheet (Suggested Format) (Sheet 3 of 3)

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

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Figure 5. Signature Sheet

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

ITEM	SERIAL NUMBER	ITEM	SERIAL NUMBER
MAIN ROTOR GRIP (Red)		SWASHPLATE DRIVE LINK	
MAIN ROTOR GRIP (Orange)		SWASHPLATE DRIVE LINK	
MAIN ROTOR GRIP (Blue)		CYCLIC SERVO ACTUATOR (L)	
MAIN ROTOR GRIP (Green)		CYCLIC SERVO ACTUATOR (R)	
MAIN ROTOR HUB ASSEMBLY		COLLECTIVE SERVO ACTUATOR	
MAIN ROTOR YOKE		SWASHPLATE GIMBAL RING	
MAIN ROTOR UPPER PLATE		TAIL ROTOR BLADE	
MAIN ROTOR LOWER PLATE		TAIL ROTOR BLADE	
SHEAR BEARING ASSEMBLY (R)		TAIL ROTOR SERVO ACTUATOR	
SHEAR BEARING ASSEMBLY (O)		TAIL ROTOR GEARBOX	
SHEAR BEARING ASSEMBLY (B)		TAIL ROTOR HUB	
SHEAR BEARING ASSEMBLY (G)		MAST ASSEMBLY	
DRIVE RING SET		INPUT DRIVESHAFT	
SWASHPLATE & SUPPORT ASSY		LEFT SIDE BEAM	
SWASHPLATE OUTER RING		RIGHT SIDE BEAM	
SWASHPLATE INNER RING		FORWARD TRANSVERSE BEAM	
SWASHPLATE DRIVE HUB SET		AFT TRANSVERSE BEAM	
SWASHPLATE DRIVE LEVER		RESTRAINT SPRING ASSY (L)	
ANTIDRIVE LINK		RESTRAINT SPRING ASSY (R)	
ANTIDRIVE LEVER		RESTRAINT SPRING FITTING (L)	
* SWASHPLATE BEARING & LINER		RESTRAINT SPRING FITTING (R)	

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* Component serial number cannot be visually verified. Refer to paragraph 1-10.

Figure 6. Serial Number Checklist (Sheet 1 of 2)

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

ITEM	SERIAL NUMBER	ITEM	SERIAL NUMBER
CORNER MOUNT (LF)		MAIN ROTOR PITCH HORN (Red)	
CORNER MOUNT (LR)		MAIN ROTOR PITCH HORN (Orange)	
CORNER MOUNT (RF)		MAIN ROTOR PITCH HORN (Blue)	
CORNER MOUNT (RR)		MAIN ROTOR PITCH HORN (Green)	
TRANSMISSION TOP CASE		* TRANSMISSION OIL PUMP	
ENGINE ASSEMBLY		* FREEWHEELING SHAFT ASSEMBLY	
FUEL PUMP (OH-58D)		* CLUTCH INPUT SHAFT	
* FUEL NOZZLE		* CLUTCH OUTPUT SHAFT	
* 1st STAGE TURBINE WHEEL (OH-58D)		MAIN ROTOR MAST	
* 2nd STAGE TURBINE WHEEL (OH-58D)		* STANDPIPE	
* 3rd STAGE TURBINE WHEEL (OH-58D)		MAIN DRIVESHAFT ASSEMBLY	
* 4th STAGE TURBINE WHEEL (OH-58D)			
COMPRESSOR IMPELLER ASSY (OH-58D)			
FUEL CONTROL ASSY (OH-58D)			
TURBINE ASSEMBLY (OH-58D(R))			
MAIN TRANSMISSION			
MAIN ROTOR BLADE (Red)			
MAIN ROTOR BLADE (Orange)			
MAIN ROTOR BLADE (Blue)			
MAIN ROTOR BLADE (Green)			

* Component serial number cannot be visually verified. Refer to paragraph 1-10.

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Figure 6. Serial Number Checklist (Sheet 2 of 2)

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 9

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
2.1	Directional control pedals, bellcranks, and control linkage for excessive wear, binding, condition, and security. (Access 17 and 29)	_____	_____	_____	
3.1	Avionics compartment floor for punctures, cracks, bonding and separation, and cleanliness. Paint and decals for chipped or peeling condition. (Access 19)	_____	_____	_____	
3.2	Avionics compartment structure for cracks, corrosion, condition, security, and loose or missing rivets. (Access 19)	_____	_____	_____	
3.3	Mounting bolts for transverse beams in roof for security. Support straps for cracks and security. (Access 19)	_____	_____	_____	
5.9	Fireshield drain tube, exhaust drain tube, and combustor drain tube for blockage and chafing.	_____	_____	_____	
5.10	Clean and inspect; EBF engine filter for condition, security, and obstruction; air induction cowl inlet plenum for mechanical and corrosion damage; components for security; loose or missing hardware or rivets; organic coating for damage; seals for presence, condition, dirt trails, and security.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
6.1	Tail rotor forward fanshaft bearing support bracket (especially lower portion) for cracks and link assembly, supporting deck panel, and inserts for condition and security. (Task 6-6-14) (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.2	Engine oil tank and cooler for leaks and damage. Crazed or discolored sight gauge. Support, deck, and attaching hardware for damage and security. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.3	Oil cooler support panel for cracks (around forward fanshaft bearing support bracket inserts), panel punctures, voids, and loose or missing rivets. (Task 6-6-14) Paint for chipped or peeling condition. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.4	Oil cooler fan impeller for cleanliness. (Task 6-6-13)	_____	_____	_____	
7.1	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
8.2	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
9.1	Directional hydraulic actuator, supports, and controls linkage for damage, excessive wear, binding, security, and leakage. (Access 8)	_____	_____	_____	
9.2	Heater control cable for condition and security. (Access 7 and 10)(Task 12-1-10)	_____	_____	_____	
9.3	Heater mixing valve area for evidence of air leakage. (Access 7 and 10)	_____	_____	_____	
9.4	Heater air ducts for cracks, cuts, tears, and security. (Access 7 and 10)(Task 12-1-11)	_____	_____	_____	
11.1	Bleed air lines for chafing, leakage, and security of connections. (Access 1)	_____	_____	_____	
11.2	Engine deck for cracks, punctures, and loose or missing rivets. (Access 1)	_____	_____	_____	
11.3	Freewheeling unit and main driveshaft for cracked tabs, obvious damage, binding, security, and leakage. (Access 1)	_____	_____	_____	
11.4	Clean freewheeling assembly chip detector. (Access 1)	_____	_____	_____	

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

No.	Seq	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
	11.5	Clean and inspect; EBF engine filter and bleed air filter for condition, security, and obstruction; air induction cowl inlet plenum for mechanical and corrosion damage; components for security; loose or missing hardware or rivets; organic coating for damage; seals for presence, condition, dirt trails, and security.	_____	_____	_____	
	12.1	Avionics compartment floor for punctures, cracks, voids, and cleanliness. Paint and decals for chipped or peeling condition. (Access 10).	_____	_____	_____	
	12.2	Avionics compartment structure for cracks, corrosion, condition, security, and loose or missing rivets. (Access 10)	_____	_____	_____	
	12.3	Mounting bolts for transverse beams in roof for security. Support straps for cracks and security. (Access 10)	_____	_____	_____	
	13.1	Directional control pedals, bellcranks, and control linkage for excessive wear, binding, condition, and security. (Access 11 and 29)	_____	_____	_____	
	14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____	
	14.13	Perform spring tension check on main rotor expandable bolts. (Task 5-1-6)	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

No.	Seq	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
	14.15	EBF system bypas door actuator for condition and security.	_____	_____	_____	
	14.16	Right access door FOD screen for condition and security.	_____	_____	_____	
	15.1	Perform landing gear crosstube deflection check. (Task 3-1-3 or 3-1-4)	_____	_____	_____	
	17.2	UWP mount fittings visual inspection. Inspect for loose or missing fasteners, nicks, scratches, gouges, and overall condition. (Task 2-2-94 except UWP is not removed)	_____	_____	_____	
	F.3	Verify that all PPM requirements were completed and aircraft logbook updated.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

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Figure 5. Signature Sheet

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 10

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H
2.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 17)	_____	_____	_____
3.4	Fuel cell access cover for voids, punctures, loose Rosan studs, dents, and missing hardware. Paint and decals for chipped or peeling condition. (Access 19)	_____	_____	_____
3.5	Ng control cable assembly for condition and security. (Access 19)(Access center post, Task 2-2-69)	_____	_____	_____
3.6	Flight control bellcranks and bearings for condition and security. (Access 19)(Access center post, Task 2-2-69)	_____	_____	_____
3.7	Flight control push-pull tubes for chafing, corrosion, condition, and security. Bearings for binding or excessive wear. Inspect cap angles (four long corner extrusion support angles) for buckling and bending. (Access 19)(Access center post, Task 2-2-69)	_____	_____	_____
3.8	Collective link assembly for condition and security. Bearings for binding or excessive wear. Inspect center post area for FOD. (Access 19)(Access center post, Task 2-2-69)	_____	_____	_____

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
3.9	Heater control cable for condition and security. (Access 19)(Task 12-1-10)	_____	_____	_____	
4.1	Tailboom attachment fittings for corrosion, cracks, and loose rivets. Bolts for torque stripe alignment. (Access 23)(Tasks 2-3-3 and 2-3-4)	_____	_____	_____	
4.2	Engine vent and fuel supply hoses for chafing, leakage, and security of connections. (Access 20)(Task 10-1-9)	_____	_____	_____	
5.7	Remove fuel shutoff access panel and view valve externally. Do not remove valve. (Access 19)(Task 10-1-6)	_____	_____	_____	
7.3	Nonrotating control linkage at tail rotor gearbox for damage and security. Bearings for binding or worn condition. Control tube and bushing for alignment of vent holes. (Pull back dust boot)	_____	_____	_____	
7.4	Pitch change tube (exposed portion) for damage, corrosion, and security. Boot for cuts, tears, deterioration, and security.	_____	_____	_____	
7.5	Clean tail rotor gearbox chip detector.	_____	_____	_____	
7.6	Remove, clean, and install tail rotor gearbox vent filter.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
8.1	Visually inspect tail rotor assembly. (Task 5-4-1)(On helicopter)	_____	_____	_____	
8.4	Tail rotor control push-pull tubes for chafing, corrosion, and security. Bearings for binding or excessive wear. (Access 8 and 29)	_____	_____	_____	
8.5	Tail rotor control bellcranks for damage, condition of bearings, and security. (Access 8 and 29)	_____	_____	_____	
8.6	Tail rotor balancing (Dynamic).	_____	_____	_____	
8.7	Remove tail cone and inspect tail rotor gearbox support assembly for cracks and loose rivets.	_____	_____	_____	
8.8	Inspect tail skid.	_____	_____	_____	
12.4	Fuel cell access cover for voids, punctures, loose Rosan studs, dents, and missing hardware. Paint and decals for chipped or peeling condition. (Access 10)	_____	_____	_____	
12.5	Ng control cable assembly for condition and security. (Access 10)(Access center post, Task 2-2-69)	_____	_____	_____	
12.6	Flight control bellcranks and bearings for condition and security. (Access 10)(Access center post, Task 2-2-69)	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

No.	Seq	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
	12.7	Flight control push-pull tubes for chafing, corrosion, condition, and security. Bearings for binding or excessive wear. Inspect cap angles (four long corner extrusion support angles) for buckling and bending. (Access 10)(Access center post, Task 2-2-69)	_____	_____	_____	
	12.8	Collective link assembly for condition and security. Bearings for binding or excessive wear. Inspect center post area for FOD. (Access 10)(Access center post, Task 2-2-69)	_____	_____	_____	
	12.9	Heater control cable for condition and security. (Access 10)(Task 12-1-10)	_____	_____	_____	
	13.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 11)	_____	_____	_____	
▌	14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____	
	F.3	Verify that all PPM requirements were completed and aircraft logbook updated.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

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Figure 5. Signature Sheet

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 11

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
5.3	Starter-generator brushes. (Access 25)(Task 9-3-13)	_____	_____	_____	
5.4	Starter-generator drive spline for wear. (Access 25)(Tasks 9-3-1 and 9-3-14)	_____	_____	_____	
5.5	Engine firewall sealing strips for cuts, tears, deterioration, and security. (Remove engine cowling, Task 2-2-50)	_____	_____	_____	
5.6	Engine deck for cracks, punctures, and loose or missing rivets. (Access 25)	_____	_____	_____	
5.8	Bleed air lines for chafing, leakage, and security of connections. (Access 25)	_____	_____	_____	
6.1	Tail rotor forward fanshaft bearing support bracket (especially lower portion) for cracks and link assembly, supporting deck panel, and inserts for condition and security. (Task 6-6-14) (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.2	Engine oil tank and cooler for leaks and damage. Crazed or discolored sight gauge. Support, deck, and attaching hardware for damage and security. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

No.	Seq	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
	6.3	Oil cooler support panel for cracks (around forward fanshaft bearing support bracket inserts), panel punctures, voids, and loose or missing rivets. (Task 6-6-14) Paint for chipped or peeling condition. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
	6.4	Oil cooler fan impeller for cleanliness. (Task 6-6-13)	_____	_____	_____	
	7.1	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
	8.2	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
	14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____	
	F.3	Verify that all PPM requirements were completed and aircraft logbook updated.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

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Figure 5. Signature Sheet

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 12

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
2.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 17)	_____	_____	_____	
3.1	Avionics compartment floor for punctures, cracks, voids, and cleanliness. Paint and decals for chipped or peeling condition. (Access 19)	_____	_____	_____	
3.2	Avionics compartment structure for cracks, corrosion, condition, security, and loose or missing rivets. (Access 19)	_____	_____	_____	
3.3	Mounting bolts for transverse beams in roof for security. Support straps for cracks and security. (Access 19)	_____	_____	_____	
5.9	Fireshield drain tube, exhaust drain tube, and combustor drain tube for blockage and chafing.	_____	_____	_____	
5.10	Clean and inspect; EBF engine filter for condition, security, and obstruction; air induction cowl inlet plenum for mechanical and corrosion damage; components for security; loose or missing hardware or rivets; seals for presence, condition, dirt trails, and security.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
8.1	Visually inspect tail rotor assembly (Task 5-4-1) (On helicopter).	_____	_____	_____	
8.6	Tail rotor balancing (Dynamic).	_____	_____	_____	
8.7	Remove tail cone and inspect tail rotor gearbox support assembly for cracks and loose rivets.	_____	_____	_____	
8.8	Inspect tail skid.	_____	_____	_____	
9.5	Lines and hoses for chafing and security of connections. (Access 8 and 10)	_____	_____	_____	
11.5	Clean and inspect; EBF engine filter and bleed air filter for condition, security, and obstruction; air induction cowl inlet plenum for mechanical and corrosion damage; components for security; loose or missing hardware or rivets; seals for presence, condition, dirt trails, and security.	_____	_____	_____	
12.1	Avionics compartment floor for punctures, cracks, voids, and cleanliness. Paint and decals for chipped or peeling condition. (Access 10)	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

No.	Seq	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
	12.2	Avionics compartment structure for cracks, corrosion, condition, security, and loose or missing rivets. (Access 10)	_____	_____	_____	
	12.3	Mounting bolts for transverse beams in roof for security. Support straps for cracks and security. (Access 10)	_____	_____	_____	
	13.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 11)	_____	_____	_____	
	14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____	
	14.13	Perform spring tension check on main rotor expandable bolts. (Task 5-1-6)	_____	_____	_____	
	14.15	EBF system bypass door actuator for condition and security.	_____	_____	_____	
	14.16	Right access door FOD screen for condition and security.	_____	_____	_____	
	15.1	Perform landing gear crosstube deflection check. (Task 3-1-3 or 3-1-4)	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H
17.2	UWP mount fittings visual inspection. Inspect for loose or missing fasteners, nicks, scratches, gouges, and overall condition. (Task 2-2-94 except UWP is not removed)	_____	_____	_____
F.3	Verify that all PPM requirements were completed and aircraft logbook updated.	_____	_____	_____

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

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Figure 5. Signature Sheet

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 13

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H
5.1	Fuel control (OH-58D) or HMU (OH-58D(R) (Ng) lever and clevis bolt hole for elongation. Inspect bolt on fuel control lever for fretting, corrosion, and wear. (Access 25)	_____	_____	_____
5.2	Ng control cable boot for cuts, tears, cracks, and security. Ensure that the inside is not gummy. (Access 25)	_____	_____	_____
6.1	Tail rotor forward fanshaft bearing support bracket (especially lower portion) for cracks and link assembly, supporting deck panel, and inserts for condition and security. (Task 6-6-14) (Remove aft fairing, Task 2-2-55)	_____	_____	_____
6.2	Engine oil tank and cooler for leaks and damage. Crazed or discolored sight gauge. Support, deck, and attaching hardware for damage and security. (Remove aft fairing, Task 2-2-55)	_____	_____	_____
6.3	Oil cooler support panel for cracks (around forward fanshaft bearing support bracket inserts), panel punctures, voids, and loose or missing rivets. (Task 6-6-14) Paint for chipped or peeling condition. (Remove aft fairing, Task 2-2-55)	_____	_____	_____
6.4	Oil cooler fan impeller for cleanliness. (Task 6-6-13)	_____	_____	_____

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
7.1	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
7.5	Clean tail rotor gearbox chip detector.	_____	_____	_____	
8.2	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____	
F.3	Verify that all PPM requirements were completed and aircraft logbook updated.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

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Figure 5. Signature Sheet

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 14

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H
2.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 17)	_____	_____	_____
8.1	Visually inspect tail rotor assembly (Task 5-4-1) (On helicopter).	_____	_____	_____
8.6	Tail rotor balancing (Dynamic).	_____	_____	_____
8.7	Remove tail cone and inspect tail rotor gearbox support assembly for cracks and loose rivets.	_____	_____	_____
8.8	Inspect tail skid.	_____	_____	_____
13.8	Door jettison handle mechanism for wear, corrosion, condition, and security. Mechanism for proper operation. (Access 11)	_____	_____	_____
14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____
14.2	Transmission input quill seal for leakage. (Access 14 and 26)	_____	_____	_____

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
14.3	Collective lever (at transmission) for cracks, corrosion, and security. Bearings for binding or excessive wear. (Remove forward fairing assembly, Task 2-2-47)	_____	_____	_____	
14.4	Swashplate duplex bearing for smoothness. Disconnect drive links and rotor pitch links. Free lower end of boot. Rotate outer ring in both directions. (Tasks 5-2-1, 5-2-3, 5-2-7, 5-2-9, and 5-2-17)	_____	_____	_____	
14.5	Check and adjust main rotor swashplate Uniball friction. (Task 5-2-32)	_____	_____	_____	
14.6	Main rotor mast seal. Check at swashplate support drain holes for evidence of leakage. (Access 14 and 26)	_____	_____	_____	
14.7	Flight control bellcranks for damage, condition of bearings, and security. (Remove forward fairing assembly, Task 2-2-47)	_____	_____	_____	
14.8	Remove, clean, and inspect drive levers. (Tasks 5-2-7, 5-2-8, and 5-2-9)	_____	_____	_____	
14.9	Disconnect pitch links from swashplate. Inspect links for freedom of movement, clearance, and wear. (Tasks 5-2-1, 5-2-2, and 5-2-3)	_____	_____	_____	

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
14.10	Main rotor hub upper/lower droop stops, buffers, and bumpers for wear. (Tasks 5-1-14, 5-1-35, and 5-1-37)	_____	_____	_____	
14.11	Main rotor hub, elastomeric bearings for deterioration and security.	_____	_____	_____	
14.12	Swashplate for inner ring rotational movement.	_____	_____	_____	
F.3	Verify that all PPM requirements were completed and aircraft logbook updated.	_____	_____	_____	

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

PRINTED NAME	SIGNATURE	INITIAL/PID

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Figure 5. Signature Sheet

PROGRESSIVE INSPECTION CHECKLIST — NUMBER 15

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____ AIRCRAFT TOTAL TIME:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
3.1	Avionics compartment floor for punctures, cracks, bonding and separation, and cleanliness. Paint and decals for chipped or peeling condition. (Access 19)	_____	_____	_____	
3.2	Avionics compartment structure for cracks, corrosion, condition, security, and loose or missing rivets. (Access 19)	_____	_____	_____	
3.3	Mounting bolts for transverse beams in roof for security. Support straps for cracks and security. (Access 19)	_____	_____	_____	
5.9	Fireshield drain tube, exhaust drain tube, and combustor drain tube for blockage and chafing.	_____	_____	_____	
5.10	Clean and inspect; EBF engine filter for condition, security, and obstruction; air induction cowl inlet plenum for mechanical and corrosion damage; components for security; loose or mising hardware or rivets; organic coating for damage; seals for presence, condition, dirt trails, and security.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

Seq No.	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
6.1	Tail rotor forward fanshaft bearing support bracket (especially lower portion) for cracks and link assembly, supporting deck panel, and inserts for condition and security. (Task 6-6-14) (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.2	Engine oil tank and cooler for leaks and damage. Crazed or discolored sight gauge. Support, deck, and attaching hardware for damage and security. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.3	Oil cooler support panel for cracks (around forward fanshaft bearing support bracket inserts), panel punctures, voids, and loose or missing rivets. (Task 6-6-14) Paint for chipped or peeling condition. (Remove aft fairing, Task 2-2-55)	_____	_____	_____	
6.4	Oil cooler fan impeller for cleanliness. (Task 6-6-13)	_____	_____	_____	
7.1	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	
8.2	Horizontal stabilizer skin at attaching points for cracks with upper support angle removed.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

No.	Seq	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
	11.5	Clean and inspect; EBF engine filter and bleed air filter for condition, security, and obstruction; air induction cowl inlet plenum for mechanical and corrosion damage; components for security; loose or mising hardware or rivets; organic coating for damage; seals for presence, condition, dirt trails, and security.	_____	_____	_____	
	12.1	Avionics compartment floor for punctures, cracks, voids, and cleanliness. Paint and decals for chipped or peeling condition. (Access 10)	_____	_____	_____	
	12.2	Avionics compartment structure for cracks, corrosion, condition, security, and loose or missing rivets. (Access 10)	_____	_____	_____	
	12.3	Mounting bolts for transverse beams in roof for security. Support straps for cracks and security. (Access 10)	_____	_____	_____	
	14.1	Clean main rotor expandable bolt. (Task 5-1-8)	_____	_____	_____	
	14.13	Perform spring tension check on main rotor expandable bolts. (Task 5-1-6)	_____	_____	_____	
	14.15	EBF system bypass door actuator for condition and security.	_____	_____	_____	

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

No.	Seq	TASK DESCRIPTION	DATE COMPLETED	PID/ INITIALS	M/H	
	14.16	Right access door FOD screen for condition and security.	_____	_____	_____	
	15.1	Perform landing gear crosstube deflection check. (Task 3-1-3 or 3-1-4)	_____	_____	_____	
	17.1	Operational check of each major weapons system.	_____	_____	_____	
	17.2	UWP mount fittings visual inspection. Inspect for loose or missing fasteners, nicks, scratches, gouges, and overall condition. (Task 2-2-94 except UWP is not removed)	_____	_____	_____	
	17.3	Visually inspect ejector rack. (Disassemble, clean, and inspect)	_____	_____	_____	
	P.1	Transmission electrical system operational check. (TM 1-1520-248-T-1, Task 2-6-32 (OH-58D) or Task 2-6-33 (OH-58D(R))	_____	_____	_____	
	P.2	Powerplant electrical system operational check. (TM 1-1520-248-T-1, Task 2-6-34 (OH-58D) or Task 2-6-35 (OH-58D(R))	_____	_____	_____	
	F.1	General Maintenance Test Flight (MTF) required.	_____	_____	_____	
	F.3	Verify that all PPM requirements were completed and aircraft logbook updated.	_____	_____	_____	

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

OH-58D MTF CHECK SHEET

PURPOSE OF TEST FLIGHT		
ACFT S/N		DATE
PILOT SIGNATURE		UNIT
ACFT WT:	DA BASELINE	DA TODAY

SYMBOLS ✓ = SATISFACTORY X = DEFICIENCY

	PRIOR TO MAINTENANCE TEST		19 DEFOG SYSTEM
	FLIGHT		20 HTR
	1 FORMS AND RECORDS		21 MASK BLWR
	2 FLIGHT READINESS INSP		22 PITOT HTR
	BEFORE STARTING ENGINE CHECKS		23 FUEL BOOST
	1 FAT_____˚C		24 AC GEN
	2 MAG COMPASS HDG _____		25 ENG ANTI-ICE
	3 CW SYSTEM		26 BATT PRHT
	4 ENGINE HISTORY		27 BIT CHKS
	5 MPD		28 AVX CHKS
	ENGINE START/RUNUP CHECKS		BEFORE HOVER CHECKS
	1 START TGT (PEAK) ——— ˚C		1 SYSTEMS
	2 START TIME ___ SEC		XMSN OIL P ___ psi
	3 EBF CHECK		XMSN OIL T ___ ˚C
	4 EGI CHECK		ENG OIL P___ psi
	SYSTEM CHECKS		ENG OIL T___ ˚C
	1 MFD BIT CODE		NG ___ %
	2 RFD		ENG TRQ ___ %
	3 FORCE TRIM		TGT ___ ˚C
	4 CYCLIC CHECK (lbs)		MAST TRQ ___ %
	FORE ___ AFT____		2 STBY ALTIMETER
	LEFT___ RIGHT____		3 MFD CHK
	5 COLLECTIVE ___(lbs)		HOVER CHECKS
	6 PEDALS ___ (lbs)		1 POWER ASSURANCE CHECK
	7 HYDRAULIC SYSTEM		FAT ____˚C TGT_____˚C
	8 ENGINE IDLE SPEED		PA ___ feet
	9 IDLE RELEASE		ENG TRQ (chart) ____ %
	10 FUEL CONTROL OVERSPEED		ENG TRQ (actual) %
	11 THROTTLE OPEN CHKS		2 HOVER POWER CHECK
	12 NP TRIM		MAST TRQ ___ %
	13 MAST TRQ		TGT____˚C NG___ %
	14 HIGH RPM ROTOR WARNING		3 CONTROL RIGGING CHECK
	15 SCAS REL		4 SCAS CHECK
	16 SCAS TEST		5 HEADING HOLD
	17 HEADING HOLD		6 POWER CYLINDER CHECK
	18 COMPT BLWR		

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Figure 3. OH-58D Maintenance Test Flight Check Sheet (Suggested Format) (Sheet 1 of 2)

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

OH-58D MTF CHECK SHEET (CONT)

SYMBOLS	✓ = SATISFACTORY	X = DEFICIENCY
7 ENGINE RESPONSE AND		MAST TRQ__%
FUEL CONTROL CHECK		2 FDL/BIT
8 HOVER BOB UP CHECK		3 BATTERY CHECKS
9 FLT INSTRUMENTS CHKS		4 THROTTLE OFF CHECKS
INFLIGHT CHECKS		5 LAST FLIGHT RECALL
1 RADAR ALTIMETER		FC1 ___ FC2 ___
2 CONTROL RIGGING		FC3 ___ FC4 ___
3 AUTOROTATION NR___ %		FC5 ___ FC6 ___
4 HYDRAULIC SYSTEMS		6 POSTFLIGHT INSPECTION
5 COLLECTIVE ANTICIPATOR		7 COMPLETE UPDATE FORMS
6 VIBRATION ANALYSIS		AND RECORDS
7 FLIGHT INSTRUMENTS		SPECIAL EQUIPMENT CHECKS
VSD		1 ATHS
SLIP INDICATOR		2 NAV SYSTEM
8 STANDBY INSTRUMENTS		PRESENT POSITION _____
MAGNETIC COMPASS		ACTUAL POSITION _____
9 COMMUNICATIONS		CIRCULAR ERROR _____
FM 1 ___ UHF___		3 GPS
VHF ___ HF___		4 AIRBORNE CALIBRATION
FM 2 ___ HOMING___		5 COMPASS COMPENSATION
SECURE EQUIP ___		6 MMSS
10 TRANSPONDER		7 ADSS
11 FUEL CONSUMPTION CHECK		8 AVTR
STOP TIME __ QTY___		9 DTS
START TIME __QTY___		10 ASE
FLOW RATE__ pph		APR-39 ___ AVR-2___
ENGINE SHUTDOWN CHECKS		ALQ-144 ___ APR-44 ___
1 SYSTEMS		11 WPNS SYS
XMSN OIL P__ psi		PDU ___ ATAS ___
XMSN OIL T__°C		MG ___ HF ___
ENG OIL P__ psi		RKTS ___
ENG OIL T__°C		
NG __ %		
ENG TRQ__ %		
TGT__ °C		

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Figure 3. OH-58D Maintenance Test Flight Check Sheet (Suggested Format) (Sheet 2 of 2)

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

OH-58D (R) MTF CHECK SHEET

PURPOSE OF TEST FLIGHT		
ACFT S/N		DATE
PILOT SIGNATURE		UNIT
ACFT WT:	DA BASELINE	DA TODAY

SYMBOLS ✓ = SATISFACTORY X = DEFICIENCY

	PRIOR TO MAINTENANCE TEST		17 HEADING HOLD
	FLIGHT		18 COMPT BLWR
	1 FORMS AND RECORDS		19 DEFOG SYSTEM
	2 FLIGHT READINESS INSP		20 HTR
	BEFORE STARTING ENGINE CHECKS		21 PITOT HTR
	1 FAT_____°C		22 FUEL BOOST
	2 MAG COMPASS HDG _____		23 AC GEN
	3 AUDIO TONE		24 ENG ANTI ICE
	4 FADEC MONITOR		25 BATT PRHT
	5 PARK HMU		26 BIT CHKS
	6 MPD		27 AVX CHKS
	ENGINE START/RUNUP CHECKS		BEFORE HOVER CHECKS
	1 START TGT (PEAK) _____°C		1 SYSTEMS
	2 START TIME _____ SEC		XMSN OIL P _____ psi
	3 EBF CHECK		
	4 EGI CHECKS		XMSN OIL T _____ °C
	SYSTEM CHECKS		ENG OIL P _____ psi
	1 MFD BIT CODE		ENG OIL T _____ °C
	2 RFD		NG _____ %
	3 FORCE TRIM		ENG TRQ _____ %
	4 CYCLIC CHECK (lbs)		TGT _____ °C
	FORE _____ AFT_____		MAST TRQ _____ %
	LEFT _____ RIGHT _____		2 STBY ALTIMETER
	5 COLLECTIVE _____ (lbs)		3 MFD CHECKS
	6 PEDALS _____ (lbs)		HOVER CHECKS
	7 HYDRAULIC SYSTEM		1 POWER ASSURANCE CHECK
	8 ENG IDLE SPEED		FAT _____°C TGT _____ °C
	9 IDLE RELEASE		PA _____ feet
	10 FADEC (PMA)		ENG TRQ (chart) _____ %
	11 THROTTLE OPEN CHKS		ENG TRQ (actual) _____ %
	12 NP TRIM		2 HOVER POWER CHECK
	13 MAST TRQ		MAST TRQ _____ %
	14 HIGH RPM ROTOR WARNING		TGT _____ °C NG _____ %
	15 SCAS REL		3 CONTROL RIGGING CHECK
	16 SCAS TEST		4 SCAS CHECK

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Figure 4. OH-58D (R) Maintenance Test Flight Check Sheet (Suggested Format) (Sheet 1 of 3)

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

OH-58D (R) MTF CHECK SHEET (CONT)

SYMBOLS	✓ = SATISFACTORY	X = DEFICIENCY
5 HEADING HOLD		MAST TRQ ____ %
6 POWER CYLINDER CHECK		2 FADEC MAINT CODE
7 ENGINE RESPONSE		3 BATTERY CHECKS
8 FADEC MANUAL		4 OVERSPEED TEST
9 HOVER BOB-UP CHECK		5 THROTTLE OFF CHKS
10 FLT INSTRUMENT CHKS		6 RECALL L/R IMPCU
INFLIGHT CHECKS		1960 CPU CCA
1 RADAR ALTIMETER		1553 I/O CCA
2 CONTROL RIGGING		DIGITAL I/O CCA
3 AUTOROTATION NR _____ %		ANALOG I/O CCA
4 HYDRAULIC SYSTEM		ADSS I/O CCA
5 COLLECTIVE ANTICIPATOR		SYS GEN CCA
6 VIBRATION ANALYSIS		WPNS CCA
7 FLIGHT INSTRUMENTS		ASE CCA
VSD		RMS CCA
SLIP INDICATOR		VTR CCA
8 STANDBY INSTRUMENTS		VIXL CCA
MAGNETIC COMPASS		SCAS BIT
9 COMMUNICATIONS		MISC BIT
FM 1 _____ FM 2 _____		7 POSTFLIGHT INSPECTION
VHF _____ UHF_____		8 COMPLETE UPDATE FORMS
VOX		AND RECORDS
SECURE EQUIP _____		SPECIAL EQUIPMENT CHECKS
10 TRANSPONDER		1 IDM
11 RMS CHK		2 NAV SYSTEM
12 FUEL CONSUMPTION CHECK		PRESENT POSITION _____
STOP TIME _____ QTY_____		ACTUAL POSITION _____
START TIME _____ QTY_____		CIRCULAR ERROR _____
FLOW RATE _____ pph		3 GPS
ENGINE SHUTDOWN CHECKS		4 AIRBORNE CALIBRATION
1 SYSTEMS		5 COMPASS COMPENSATION
XMSN OIL P _____ psi		6 MMSS
XMSN OIL T _____ ˚C		7 ADSS
ENG OIL P_____ psi		8 AVTR
ENG OIL T _____ ˚C		9 DTS
NG _____ %		10 ASE
ENG TRQ _____ %		APR-39 _____ AVR-2 _____
TGT _____ ˚C		

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Figure 4. OH-58D (R) Maintenance Test Flight Check Sheet (Suggested Format) (Sheet 2 of 3)

DATE:_____ MODEL: OH58D AIRCRAFT S/N:_____

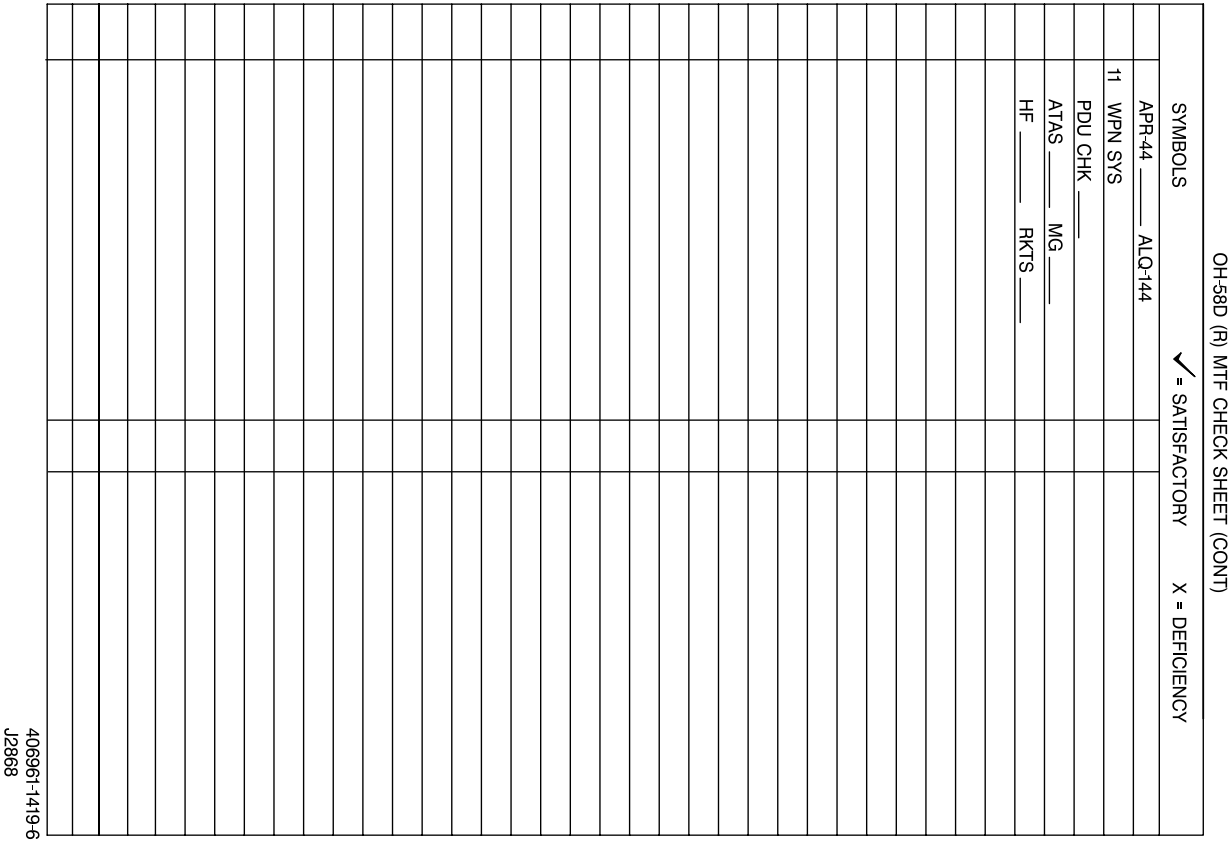

Figure 4. Signature Sheet

OH-58D HELICOPTER PROGRESSIVE PHASE MAINTENANCE (PPM)
PART II - PREVENTIVE MAINTENANCE SERVICES (PMS) CHECKLIST

1. Inspection Requirements.

a. This manual contains complete requirements for a 20-flight hour/14-day inspection for the OH-58D helicopter. The inspection is designed to be visual in nature and should not require any red "X" conditions. The inspection should only require the opening of the right and left avionics access doors, and opening of the tail rotor driveshaft covers (removal of forward transmission cowling is optional). The right and left avionics access doors, and tail rotor driveshaft covers are pre-flight inspection items and do not require a DA FORM 2408-13-1 entry. It does not contain instruction for repair, adjustment, or other means of recertifying conditions, nor does it contain instruction for troubleshooting to find causes for malfunctioning. Specific tolerances, limits, etc., can be found in the applicable maintenance manuals. Use of the alphabetical index in the applicable manuals will facilitate locating the required information.

b. It is imperative that this requirement is completed at the required intervals. The 20-flight hour interval may be extended, if necessary, up to 2 flight hours to complete the mission day as defined by the unit commander. When this interval is extended, the inspection must be completed before starting the next day's flight. Aircraft status will reflect a red dash (—) until the inspection is completed. A 14-day inspection is to be accomplished as a minimum every 14 consecutive calendar days, and may not be extended. The 20-flight hour/14-day inspection may be performed early, as required by the commander and maintenance officer to meet scheduling requirements. The next 20-flight hour/14-day inspection will be computed by adding 20 hours to the current aircraft total time and adding 14 days to the date the inspection was completed and updating DA Form 2408-18/2408-18-E accordingly.

2. Maintenance Activities.

The inspections prescribed by this manual shall be performed at specified periods by Aviation Unit Maintenance (AVUM) activities with assistance from Aviation Intermediate Maintenance (AVIM) and Depot maintenance activities when required.

3. General Information.

a. The inspection requirements contained herein are stated in such a manner as to establish when certain equipment is to be inspected and what conditions are desired/undesired. Compliance with the provisions outlined herein is required in order to ensure that latent defects are discovered and corrected before malfunctioning or serious trouble results. Inspection requirements are arranged, as nearly as possible, according to the manner in which they will be performed. The requirements are divided into groups and listed under area headings.

b. The inspection intervals designated herein shall not be exceeded except as provided for in paragraph 1. b. or in actual operational emergencies as explained herein. It is the commander's responsibility to determine (on an individual helicopter basis) when inspection intervals may be exceeded. For this purpose, operational emergencies are conditions of combat or conditions of disaster which necessitate flight to evacuate helicopter or personnel. When helicopter is operated beyond the normal inspection due-time because of such an emergency situation, a circled red "X" status symbol and an appropriate statement (to include authority) shall be entered on DA Form 2408-13-1/2408-13-1-E (Aircraft Inspection and Maintenance Record) until such time as the inspection is completed. Since safety may be jeopardized when inspections are delayed to meet emergency requirements, commanders shall ensure that the helicopter status symbol reverts to a red X and that delayed inspections are accomplished immediately upon termination of the actual emergency. When unusual local conditions of environment, utilization,, mission, experience of flight crew and maintenance personnel, periods of inactivity, etc., are encountered, the Maintenance Officer may, at his discretion, increase the scope and/or frequency of maintenance or inspections as necessary to ensure safe flight.

c. This manual may contain inspection requirements applicable to specific equipment not installed on your helicopter. Those requirements should be disregarded. Inspection items that apply to the OH-58D(R) will be indicated by R

d. DA Form 2408-13-1/2408-13-1-E (Aircraft Inspection and Maintenance Record) will be used to record all deficiencies or shortcomings discovered during this inspection. All related maintenance actions needed to correct these deficiencies and shortcomings will be entered on DA Form 2408-13-2/2408-13-2-E (Related Maintenance Actions Record).

4. Special Instructions.

a. The 20-flight hour/14-day inspection is an integral part of the PPM inspection. An engine ground-run shall not take the place of the 20-flight hour/14-day PMS. This part of the manual, along with the standardized DA Form 2408-18/2408-18-E and special and conditional inspections contained in TM 1-1520-248-23, define the complete preventive maintenance program for the helicopter. After the inspections are complete, update DA Forms 2408-18/2408-18-E in the aircraft logbook.

b. The 20-flight hour/14-day inspection contains corrosion control information to ensure maintenance personnel have adequate guidelines in locating and identifying corrosion prone areas throughout the helicopter.

5. Corrosion Control.

a. Purpose - Frequent corrosion inspections are essential to the overall corrosion control program. Costs are minimized by early detection, identification, and treatment. Without regular systematic inspections, corrosion will seriously damage aviation equipment. Refer to TM 1-1500-344-23 and TM 1-1520-248-23, Appendix Q for more detailed corrosion control inspection and repair information.

b. Responsibility - Corrosion inspection is an all hands responsibility. All maintenance personnel must be able to identify and report corrosion problems.

c. Prevention - Corrosion prevention of the aircraft structure depends on a comprehensive corrosion prevention and control plan, implemented from the start of operation of the aircraft which includes the following:

(1) Inspection for corrosion and corrosion inducing conditions on a scheduled basis.

(2) Keeping drain holes and passages open and functional.

(3) Avoiding water intrusion and entrapment by replacing deteriorated or damaged gaskets and sealants.

(4) Minimizing the exposure of aircraft to adverse environmental conditions by hangaring, use of covers, use of displacement compounds, etc.

(5) Thorough cleaning, inspection, lubrication, and preservation at prescribed intervals.

(6) Prompt treatment of corrosion after detection is vital to keeping damage to a minimum.

(7) Accurate recording and reporting of problem areas, material and/or design deficiency.

(8) Proper use of appropriate materials, equipment, and technical publications.

d. Preservation - Corrosion preventive compounds (CPC) are used to protect metal aircraft parts. They function by preventing corrosive materials from contracting and corroding bare metal surfaces. CPC can be separated into two major categories: water displacing and nonwater displacing compounds. Water displacing compounds (WDC) are CPCs that can be used to remove water and other electrolytes from metal surfaces to stop the corrosion process. For complete information on preserving aircraft parts using CPC, WDC, and other surface treatments, refer to TM 1-1500-344-23.

e. Identification of corrosion - Refer to Table 2, TM 55-1500-343-23, TM 1-1500-344-23, and TM 1-1520-248-23, Appendix Q.

Alloy	Type of Attack to Which Alloy is Susceptible	Appearance of Corrosion Product
Aluminum alloy	Surface, pitting and intergranular.	White or gray powder.
Titanium alloy	Highly corrosion resistant. Extended or repeated contact with chlorinated solvents may cause embrittlement. Cadmium plated tools can cause embrittlement of titanium.	No visible corrosion products.
Magnesium alloy	Highly susceptible to pitting.	White powder snowlike mounds, white spots on surface.
Carbon and low alloy steel (1000-8000 series)	Surface oxidation and pitting, surface and intergranular.	Reddish-brown oxide (rust).
Stainless steel (300-400 series)	Intergranular corrosion. Some tendency to pitting in marine environment (300 series more corrosion resistant than 400 series)	Corrosion evidenced by rough surface; sometimes by red, brown or black stain.
Cadmium (used as a protective plating for steel)	Good corrosion resistance. Will cause embrittlement if improperly applied.	White to brown spotting of the surface.
Chromium (used as a wear resistant plating for steels)	Subject to pitting in chloride environments.	Chromium being cathodic to steel does not corrode itself, but promotes rusting of steel where pits occur in the coating.

Table 2. Corrosion of Metals - Appearance of Corrosion Products

6. Reporting Errors and Recommending Improvements. You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedure, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), directly to Commander, U.S. Army Aviation and Missile Command, ATTN: AMSAM-MMC-MA-NP, Redstone Arsenal, Alabama, 35898-5230. You may also submit your recommended changes by E-mail directly to 2028@redstone.army.mil in the format provided in the back of this manual immediately preceding the hard copy 2028. DA Form 2028s may also be faxed to DSN 788-6546 or Commercial FAX 256-842-6546. A reply will be provided to you.

7. Inspection Areas. Inspection areas are shown in figure 1.

8. Aircraft Drain Holes. Inspection areas are shown in figure 2.

9. Access and Inspection Provisions. Access areas are shown in figure 3.

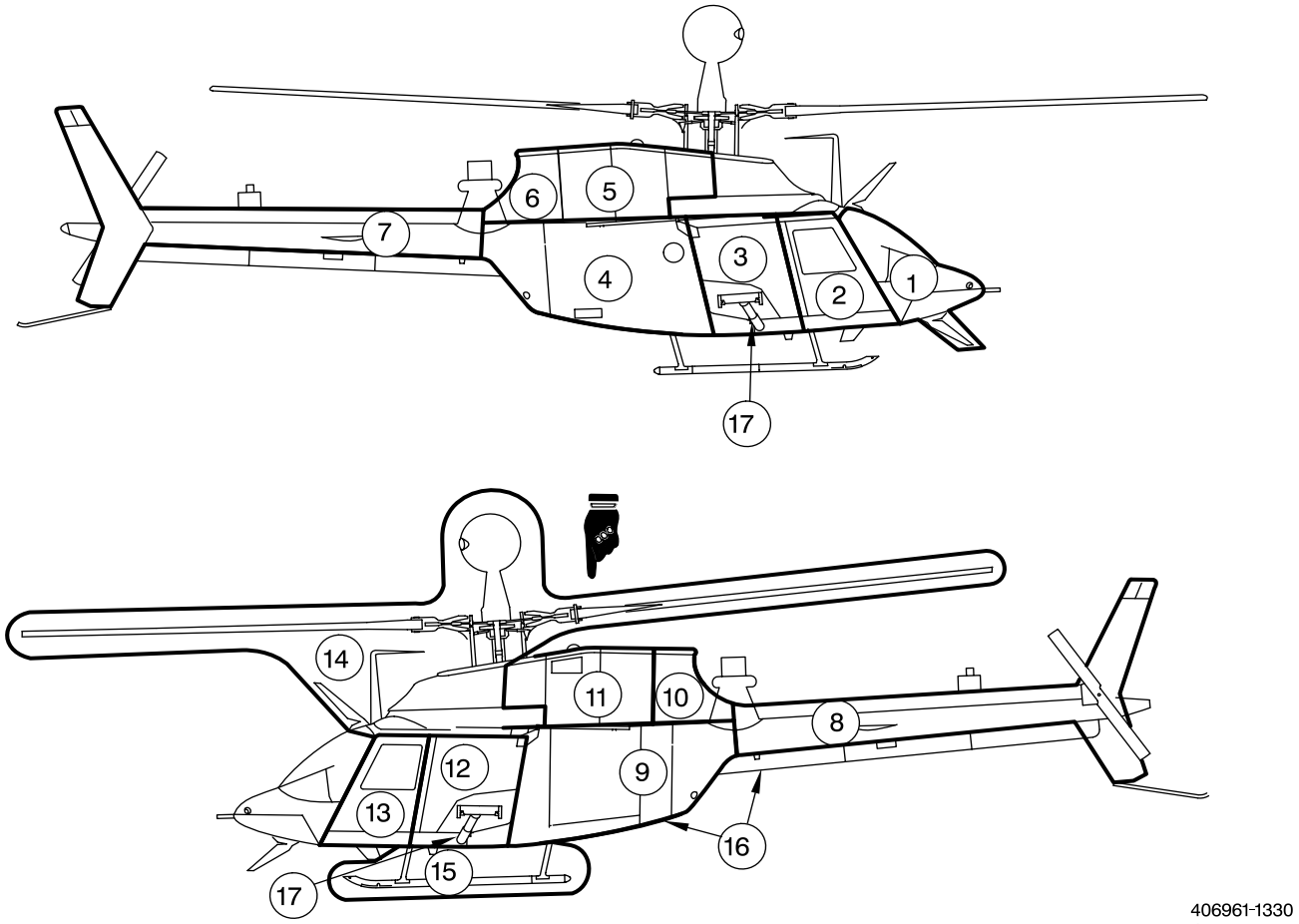

Figure 1. Inspection Areas (Sheet 1 of 5)

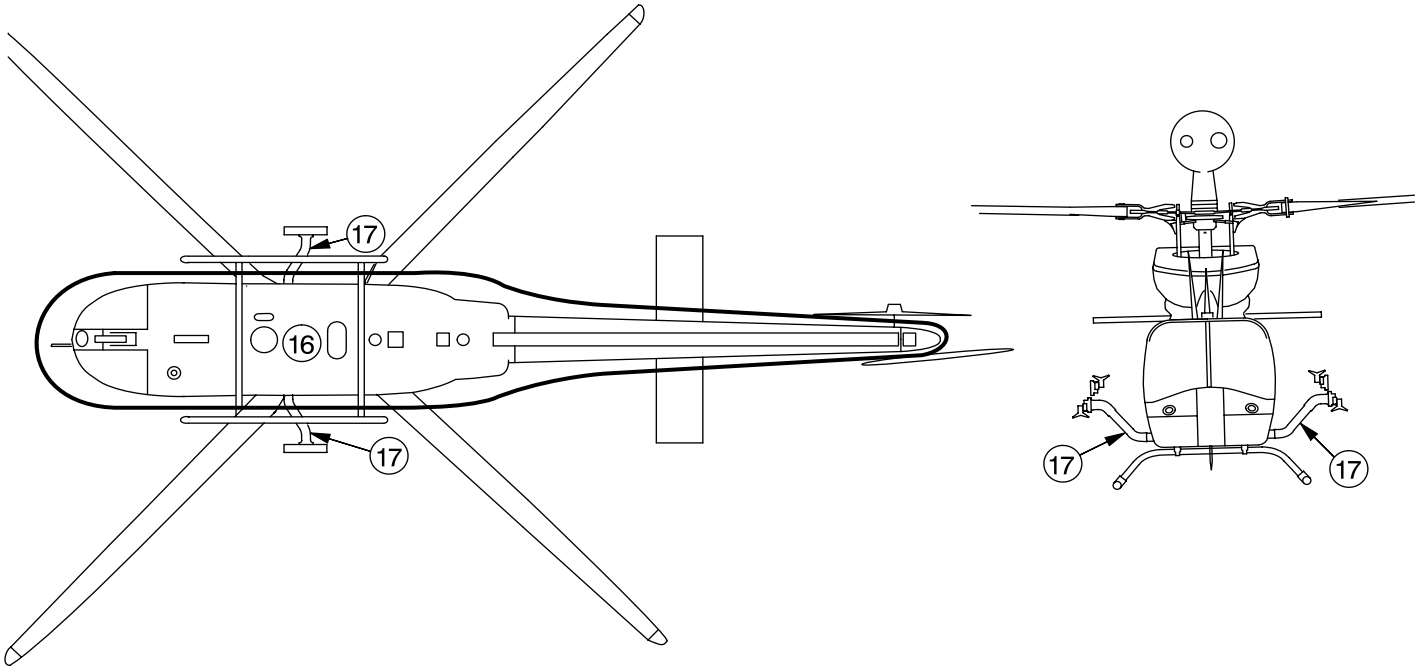

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Figure 1. Inspection Areas (Sheet 2 of 5)

Area No. 1	Nose Area	All surface, components, and equipment in nose compartment and on exterior ahead of crew doors. Includes lower wire strike protector.
Area No. 2	Crew Compartment (Right Side)	All surfaces, components, and equipment inside cabin and on cabin exterior between forward and aft edge of crew door.
Area No. 3	Access Door and Avionics Compartment (Right Side)	All surfaces, components, and equipment inside cabin and on cabin exterior between forward and aft edge of access door.
Area No. 4	Fuselage Area (Right Side)	All surfaces, components, and equipment on aft fuselage exterior between aft edge of access door and forward end of tailboom. Includes fuel filler cap, drain lines, and receptacles.
Area No. 5	Engine Area (Right Side)	All surfaces, components, and equipment associated with engine installation located above engine work deck and within engine cowling. Includes engine armor, fuel control or HMU, starter-generator, particle separator, engine barrier filter (EBF) system engine filter (if equipped), inlet shield inspection panel.
Area No. 6	Aft Fairing Assembly (Right Side)	All surfaces, components, and equipment associated with transmission and engine oil system. Includes aft fairing assembly.

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Figure 1. Inspection Areas (Sheet 3 of 5)

Area No. 7	Tailboom (Right Side)	All surfaces, components and, equipment located in or on the tailboom. Includes antennas, horizontal stabilizer, tail rotor driveshaft cover, all supports, bearings, and shafts mounted on tailboom and fin assembly.
Area No. 8	Tailboom (Left Side)	All surfaces, components, and equipment located in or on the tailboom. Includes horizontal stabilizer, tail rotor gearbox, tail rotor, directional control linkages, EGI antenna, and EGI antenna coax cable.
Area No. 9	Avionics and Aft Fuselage (Left Side)	All surfaces, components, and equipment on aft fuselage exterior between aft edge of access door and forward end of tailboom. Includes flight controls, electrical equipment, battery, and aft electrical compartment door.
Area No. 10	Aft Fairing Assembly (Left Side)	All surfaces, components, and equipment associated with transmission and engine oil system. Includes sight glass gauge, flexible coupling and first bearing of tail rotor driveshaft.
Area No. 11	Engine Area (left Side)	All surfaces, components, and equipment associated with engine installation located above engine work deck and within engine cowling. Includes engine armor, alternator, freewheeling unit, particle separator, EBF engine filter and bleed air filter (if equipped), and inlet shield inspection panel.

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Figure 1. Inspection Areas (Sheet 4 of 5)

Area No. 12	Access Door and Avionics Compartment (Left)	All surfaces, components, and equipment inside cabin and on cabin exterior between forward and aft edge of left access door. Includes aft avionics shell.
Area No. 13	Crew Compartment (Left Side)	All surfaces, components, and equipment inside cabin and on cabin exterior between forward and aft edge of crew door.
Area No. 14	Pylon Area	All surfaces, compartments, and equipment associated with main rotor and controls, mast mounted sight (MMS), transmission, EBF bypass door actuator and right access door FOD screen (if equipped), hydraulic system, antennas, upper wirestrike protector, and inlet shield.
Area No. 15	Alighting Gear	All surfaces, components, and equipment associated with skid gear.
Area No. 16	Bottom of Fuselage Tailboom	All surfaces, antennas, temperature probe, fuel pump, and searchlight.
Area No. 17	Universal Weapons Pylon and Weapons System	Left and right weapons pylon support arm and all associated hardware, fittings, bushings, and armament attaching points. Left and right weapons system, mounting points, associated hardware, and electrical connections.

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J1673

Figure 1. Inspection Areas (Sheet 5 of 5)

DRAIN HOLE	LOCATION
A	Main rotor blade drain hole
B	Swashplate support drain holes
C	Fuel cell cavity
D	Aft cabin closure
E	Tailboom attach fitting (left/right side)
F	Tail rotor blade drain hole
G	Vertical fin supports (left/right)
H	Bottom and aft of bulkheads
I	Bottom of laser sensor supports
J	Lower fairing LBL/RBL 0.88
K	Lower fairing BL 0.00
L	Lower shell BL 0.00
M	Lower shell RBL 0.5
N	Lower shell LBL 1.80
O	Bottom of avionics compartment door (left/right door)
P	Bottom of crew door (left/right door)
Q	Engine cowling access door
R	Aft electrical compartment door
S	Horizontal stabilizer
NOTE	Ensure drain holes are clear, clean, and dry. Spray areas with corrosion preventive compound (D84) after wash procedures.

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Figure 2. Aircraft Drain Holes (Sheet 1 of 2)

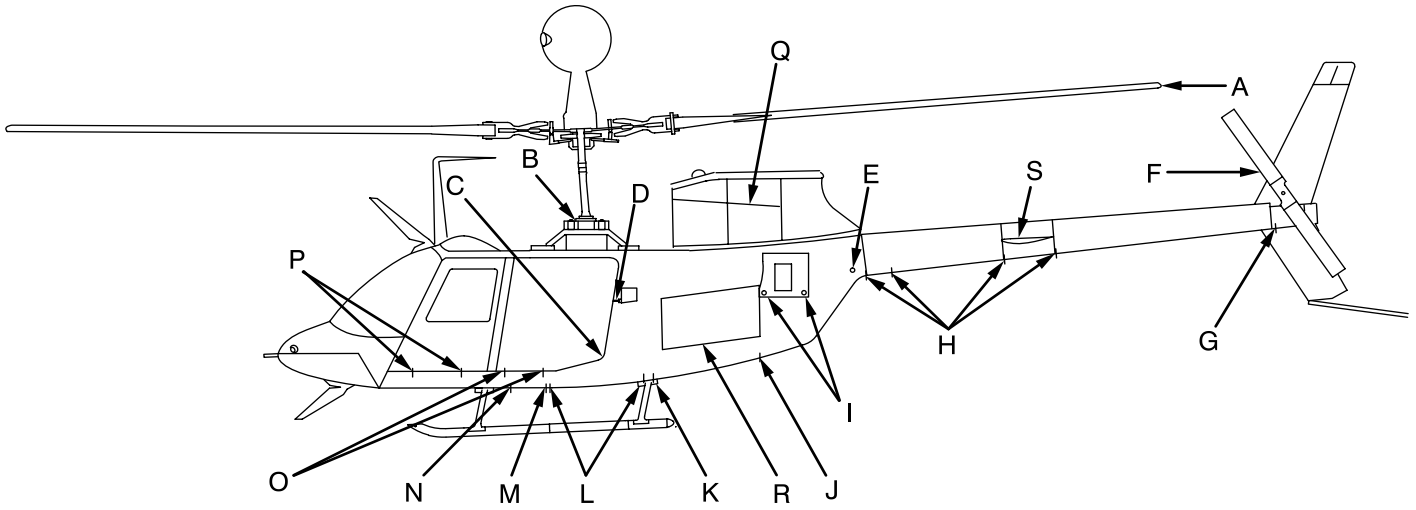
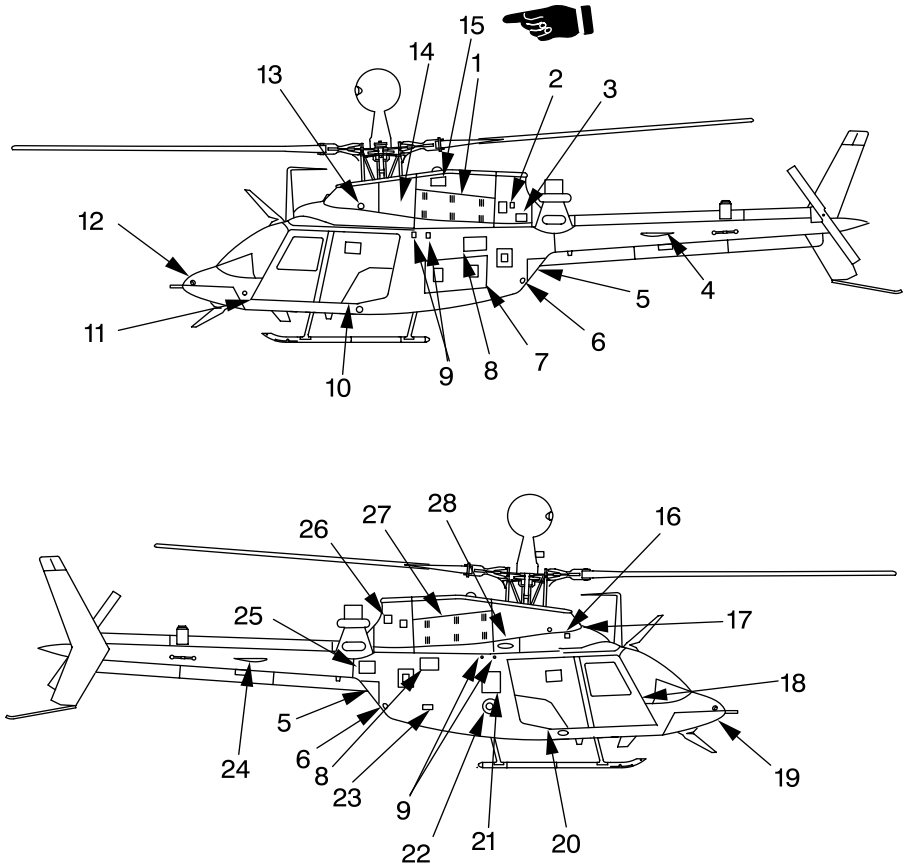


Figure 2. Aircraft Drain Holes (Sheet 2 of 2)



1. Left engine cowl
2. Window oil tank
3. Oil tank drain access door
4. Stabilizer and supports
5. Antenna access panel
6. Screen (venthole)
7. Aft electrical compartment door
8. Access panel
9. Maintenance platform attach fittings
10. Access door
11. Crew door
12. Nose door
13. Window hydraulic fluid
14. Left transmission access door
15. EBF bleed air filter
16. Servoactuator inspection door
17. Inlet shield
18. Crew door
19. DC external power receptacle door
20. Access door
21. Fuel line access panel
22. Refueling receptacle
23. AC external power receptacle door
24. Stabilizer and supports
25. Tailboom attach access panel
26. Oil tank filler cap inspection door
27. Right engine cowl
28. Right transmission access door

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Figure 3. Access and Inspection Provisions (Sheet 1 of 2)

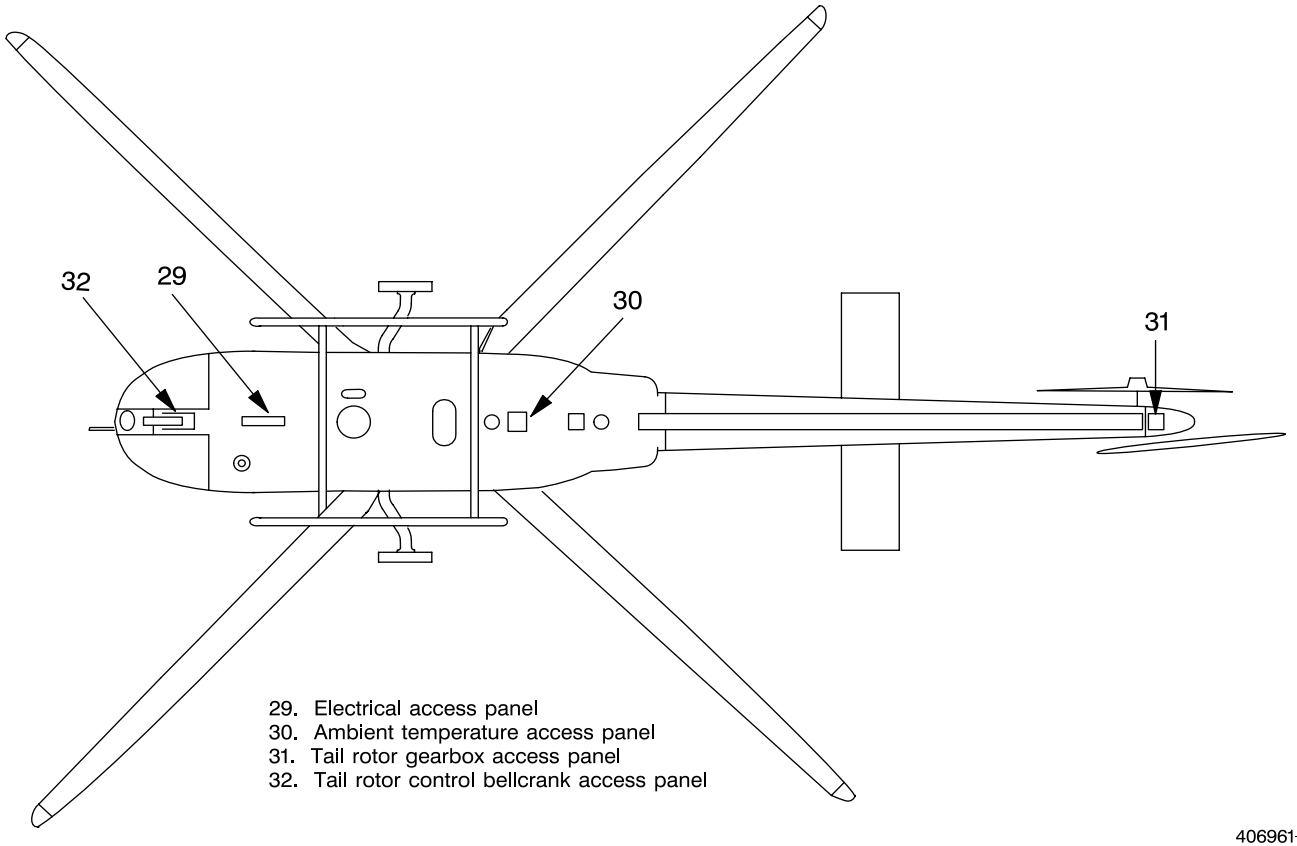

Figure 3. Access and Inspection Provisions (Sheet 2 of 2)

PREVENTIVE MAINTENANCE SERVICES CHECKLIST

Preventive Maintenance Services (PMS) Checklist inspections consist of a visual examination and operational checks to determine that the helicopter can safely and efficiently perform its assigned mission.

WARNING

DO NOT INSPECT HELICOPTER UNTIL ARMAMENT SYSTEMS AND LASERS ARE SAFE.

1. Ejector rack safety pins installed.
2. MASTER switch - OFF.
3. Jettison switches - Down.
4. LASER ARM/STBY/OFF switch - OFF.

Seq No.	AREA NAME AND NUMBER: NOSE - 1
1.1	Aircraft log book for recorded discrepancies.
1.2	Pitot tube for condition, security, and obstruction.
1.3	Auxiliary power unit door for condition of hinge, positive latching, and proper operation.
1.4	Auxiliary power unit receptacle for bent pins, condition, and other damage. DC external power door switch for condition and security.
1.5	Searchlight for condition and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: NOSE - 1
1.6	Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.
1.7	Chin bubbles for cleanliness, cracks, excessive scratches, and distortion.
1.8	Pitot-static drain lines for moisture.
1.9	Condition of battery access compartment door, hinge, cables, weather stripping, positive latching, and proper operation.
1.10	Battery intake vent line and drain line for proper connection, chafing and obstruction. Check battery for leakage and security, circuit breaker - IN, and electrical connector connected.

CAUTION

VERIFY BATT 1 SWITCH IS OFF PRIOR TO CONNECTING BATTERY 1.

1.11	Battery 1 connect/disconnect for condition, and security.
1.12	Nose compartment circuit breaker panel; ICS electrical connector for security, circuit breakers - IN.
1.13	All electrical wiring for chafing, wear, and damage. Secure door when complete.
1.14	Air intake vents for condition and vent drain tubes for obstruction.
1.15	Radar antennas for condition and security. (APR-39A(V)1)

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: NOSE - 1
1.16	Windshield for cleanliness, cracks, excessive scratches, and distortion.
1.17	FAT gauge for security.
1.18	WSPS windshield deflector for condition and security. Coating on wire strike protector for blade exposure.
1.19	Nose section for condition; pitot static ports for obstruction.
1.20	NVG formation light(s) for cracked lens and security.

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: CREW COMPARTMENT (RIGHT SIDE) - 2
2.1	Honeycomb lower cabin shell for flaking or laminate separation of edges, evidence of corrosion or blisters in outer skins, fluid entrapment (voids or discoloration), and other damage. Inspection requires emphasis for possible fluid entrapment in the lower shell area. Condition of sealant at all outside edges of panels and cabin shells. Water entrapment and corrosion damage on lower forward cabin shell.
2.2	Skin on door for cracks and condition, hinges for security and wear. Door post supporting structure for cracks, distortion, and tears. Check handle, latch, and locking brackets for security and wear.
2.3	Door for fit and ease of operation. Windows and vents for damage and cleanliness, condition of weather stripping, aircraft serial number stenciled on the inside of door. Area around two drain holes in bottom of crew door for evidence of corrosion damage. Ensure holes are open and free to flow.
2.4	Armor side panel for cracks, delamination, and security. Close attention to hinge assembly and airframe attaching condition. Check armor latching assembly for security and ease of operation.
2.5	Seat and seat back covers for service life, tears, and other damage. Remove seat back and check condition of Velcro, seat frame, and crush panel for cracks, distortion and security.
2.6	Seat belt and shoulder harness for cuts and fraying. Retarder springs for proper operation. Attachment fittings for condition and security. Check inertia reel for binding, positive locking, and unlocking.
2.7	Defog heater ducts for cracks and security.
2.8	Directional control pedals and bellcranks for freedom of movement. Check pedal adjustment for ease of operation.
2.9	Directional control pedals, support, bellcrank, adjuster knob, and control tube for corrosion damage.

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: CREW COMPARTMENT (RIGHT SIDE) - 2
2.10	Floor for condition and cleanliness, floor mic switch for condition and security.
2.11	Cyclic stick for security and boot for damage. Check cyclic friction for proper operation. Check cyclic adjustment for ease of operation.
2.12	Collective stick for security and boot for damage.
2.13	Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.
2.14	Utility light for condition and security.
2.15	Data cartridge and door for condition and security.
2.16	Heater rheostat on center post for condition and security.
2.17	Overhead circuit breakers and switches for condition and security.
2.18	Fuel shutoff lever bracket for condition and security.
2.19	Fuel shutoff lever for condition, security, and proper operation.
2.20	FM antenna lead for security.
2.21	FAT gauge for legibility of markings and cracked or broken glass.
2.22	All components attached to roof for security.

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: CREW COMPARTMENT (RIGHT SIDE) - 2
2.23	Overhead windows for cracks and evidence of leaking water.
2.24	Pilot display unit for security.
2.25	Door jettison handle for security and proper safety. Inspect rods for condition and extension through hinge halves.
2.26	Magnetic compass for condition and security. Correction card for availability and legibility.
2.27	Clock for condition and security.
2.28	MFD and MPD and other instruments on panel for security.
2.29	Electrical and avionics panels on center console for security.
2.30	Armament control panel for security and breakaway safety wire installed.
2.31	Instrument panel glareshield for cracks and security.

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: ACCESS DOOR & AVIONICS COMP. (RIGHT SIDE) - 3
3.1	Skin on door for cracks and condition. Inspect door latches and hinges for cracks and wear.
3.2	Quick-disconnect pins for condition, proper operation, and lanyard for security.
3.3	Door entrance area for wear, condition, and condition of sealant at seams.
3.4	Door for fit and proper operation. Windows and vents for cleanliness, condition and security. Area around two drain holes, located in bottom of access/avionics door, for evidence of corrosion damage. Ensure holes are open and free to flow. Check condition of weatherstripping, aircraft serial number stenciled on the inside of door.
3.5	AVR-2A antenna for condition and security. Check connector for corrosion, bent pins, and visible damage.
3.6	Inertia reel for condition and security. Straps for security, cuts, and fraying.
3.7	All electrical wires and connectors in the floor area for condition and security and radios for condition.
3.8	Master control processor unit (MCPU) for security and loose connection.
3.9	First aid kit for security, missing or broken seal, and current inspection date.
3.10	All electrical components and wiring attached to the roof for condition, chafing, and security.
3.11	Standpipe cable assembly at lower exit from standpipe and at passage through roof grommet.
3.12	Control rods and walking beam for condition, security, binding, or worn bearings.

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: ACCESS DOOR & AVIONICS COMP. (RIGHT SIDE) - 3
3.13	Components on aft equipment shelf for condition and security.
3.14	MMS power supply and MMS processor for condition and security and fan motors rotate freely.
3.15	Fuel cell access area for leakage and electrical components for condition and security.
3.16	All electrical wires in cabin area for condition, chafing, and security.
3.17	Cabin interior for cleanliness and loose foreign objects. Secure door when completed.

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: FUSELAGE (RIGHT SIDE) - 4
4.1	Fuel cell upper roof for contact with fuel vent tube, paying particular attention to the area of vent tube around attachment fitting inspect tube for evidence of cracks or kinks. (Task 10-1-10)
4.1.1	Fuel filler cap for proper locking and condition of seal, fuel receiver for condition and proper locking. Open filler cap and inspect fuel cell vent hose for contact with fuel cell. If contact is present, inspect fuel vent hose for damage. Lanyard and latch release tool for condition and security, secure filler cap when complete. (Task 10-1-10)
4.2	Grounding strap for condition and security.
4.3	Honeycomb areas for dents, punctures, voids, condition of sealant at seams, and other damage. Honeycomb lower cabin shell for flaking or separation of edges, evidence of corrosion or blisters in outer skins, fluid entrapment (void or discoloration), and other damage. Special attention must be given to the lower aft cabin shell. Inspection requires emphasis for possible fluid entrapment in the lower shell area. Condition of sealant at all outside edges of panels and cabin shells.
4.4	Drain lines and battery vents for condition, chafing, security, and obstruction.
4.5	Auxiliary power unit door for condition of hinge, positive latching, and proper operation.
4.6	Auxiliary power unit receptacle for bent pins, condition, and other damage. AC external power door switch condition and security; secure door.
4.7	Grounding receptacle for condition and security.
4.8	APR-44 antenna for condition and security.

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: FUSELAGE (RIGHT SIDE) - 4
4.9	Lower anticollision light for condition and security.
4.10	Aft jacking point for condition and security.
4.11	Screen vent for condition and security.
4.12	Radar antennas for condition and security. (APR-39A(V)1)
4.13	Grommet on HF homing antenna for condition and security.
4.14	AVR-2A antenna for condition and security. Around two drain holes (located at lower end of AVR-2A mount) for evidence of corrosion damage. Ensure holes are open and free to flow.
4.15	Overall skin for damage and hard points for condition and security.
4.16	NVG formation light(s) for cracked lens and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: ENGINE (RIGHT SIDE) - 5
5.1	Engine assembly for general condition and security; loose or missing bolts; broken, loose, or damaged electrical connections; security of mounting accessories; security of lockwiring and other retaining hardware; damage and chafing to lines, hoses, and fittings; evidence of fuel, air, and oil leakage; excessive wear of components; evidence of FOD, dirty components, cracks, dents, nicks, or chafing of components; condition of all welded joints.
5.2	Compressor module for condition and security.
5.3	Compressor scroll for condition and security. Pay particular attention to all welds and attachment areas; no cracks or punctures allowed.
5.4	Horizontal and vertical firewall shields for condition and security. Pay particular attention to any cracks.
5.5	Combustion chamber for cracks and evidence of overheating.
5.6	Accessory gearbox module for condition and security. Inspect for oil leaks and loose component mounting hardware. Water entrapment and corrosion damage on top of lifting pad.
5.7	Fuel control or HMU for condition, security, and leakage. Inspect two weep holes on fuel control for evidence of fuel and/or oil leakage; no leakage allowed.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: ENGINE (RIGHT SIDE) – 5

CAUTION

Ensure fuel and oil lines do NOT contact fuel control arm bolt where Ng control cable attaches.

5.8 NG control cable assembly for wear, binding, and security. Control cable end fitting and bracket for condition and security.

5.9 Fuel filter for condition and security.

5.10 Electrical harness and igniter lead for condition and security.

5.11 Starter–generator and electrical leads for security and evidence of overheating.

5.11.1

CAUTION

No hand tools will be used for inspection of hardware.

NOTE

Rotation of blades may be necessary for complete inspection of driveshaft.

Inspect installation hardware for security and damaged threads. visually inspect driveshaft for scratches, nicks, dents, and corrosion. Inspect flexframes for nicks, cracks and security. Inspect flexframe hardware for condition and security – physically attempt to rotate flexframe bolts by hand. Refer to task 6–2–3.

5.12 Engine and cowling exhaust ducts for condition and security. Pay attention to cracks. Water drain port and tubing in exhaust ejector of upper engine cowling for corrosion damage. Ensure drain port and tubing are open and free to drain.

5.13 Inspect all cowlings, fairings, and access panels for condition and security.

5.14 Vortex generators in particle separator for condition, security, and obstruction.

5.15 Clean and inspect inlet shield for mechanical and corrosion damage; components for security; loose or missing hardware or rivets; organic coating damage; window for cleanliness, clearness, damage and security; and seals for presence, condition and security.

5.16 Inspect EBF system engine filter for condition, security, and obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: AFT FAIRING ASSEMBLY (RIGHT SIDE) - 6
6.1	Aft fairing assembly for condition and security. Check for loose lines and oil standing in scupper. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal; secure when complete. Secure access door when complete.
6.2	Oil cooler inlet screen for damage or clogging.
6.3	Oil bypass valve for evidence of leaking.
6.4	Inspect oil cooler support and bracket assembly for cracks and condition. (Task 6-6-14) Inspect oil cooler fan for cleanliness.
6.5	Countermeasures set AN/ALQ-144, mount, and cables for condition, cleanliness, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: TAILBOOM (RIGHT SIDE) - 7
7.1	General condition of skin for ripples, holes, and loose or popped rivets.
7.2	HF antenna and IFF antenna for condition and security.
7.3	Horizontal stabilizer for condition, security, skin damage, loose or missing rivets and hardware, and around drain holes for evidence of corrosion damage. Ensure holes are open and free to flow.
7.4	Horizontal stabilizer hinge and latch mechanism for condition, security, and corrosion. (folding not required)
7.5	Green position light for cracked lens and security.
7.6	Driveshaft cover for condition and security. Inspect aft section of driveshaft cover hinge for cracks. Open driveshaft cover.
7.7	Tail rotor driveshafts, hanger bearings, bearing hangers, support mounts, lubrication fittings, coupling disc packs, and attaching hardware for condition, separation, excessive wear, binding, corrosion, overheating, and security. Secure driveshaft cover when complete.
7.8	Vertical stabilizer (tailfin) skin surface for blisters, delamination, and corrosion damage and lapjoints for proper sealing. Vertical stabilizer, antenna couplings, and tail skid for condition and security. Vertical stabilizer skin attaching points for cracks.
7.9	Bolts in tail rotor control links for condition and security.
7.10	Trunnion boot for condition and security.

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: TAILBOOM (RIGHT SIDE) - 7
7.11	Electrical wiring for chafing and loose or corroded connections.
7.12	Tail cone for condition and security. Inspect position light for cracked lens and security.
7.13	Countermeasures set AN/ALQ-144, mount, and cables for condition, cleanliness, and security.

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: TAILBOOM (LEFT SIDE) - 8
8.1	Remove tail cone and inspect tail rotor gearbox support assembly for cracks and loose rivets. Inspect tail rotor gearbox for condition, oil leaks, and security. Check oil level. Oil is required if oil level is 1/8 inch below center level of sight gage. Tail rotor gearbox output shaft for corrosion damage. Tail rotor gearbox mounting area for condition of Proseal and evidence of corrosion.
8.2	Aft tailboom skin and around gearbox support assembly casting for loose or working rivets and skin cracks in the rivet area.
8.3	Tail rotor gearbox oil filler cap for condition and security.
8.4	Tail rotor assembly for corrosion, condition, and security. Visually inspect drain hole in leading edge spar of tail rotor blades for foreign debris and evidence of corrosion damage internally and around hole. Ensure hole is open and free to flow. Visually inspect erosion shield leading edge on rotor blades for damage or debonding.
8.5	Tail rotor control trunnion and pitch change links for condition and security.
8.6	Tail rotor retaining nut for condition and security.
8.7	Apply full left pedal and check tail rotor pitch change tube for corrosion, leakage, condition, and security.
8.8	General condition of skin for ripples, holes, and loose or popped rivets. Around five drain holes located on bottom side of tailboom, for evidence of internal corrosion damage. Ensure holes are open and free to flow.
8.9	Driveshaft cover for condition and security. Inspect hinge for cracks.

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: TAILBOOM (LEFT SIDE) - 8
8.10	Horizontal stabilizer for condition, security, skin damage, and loose or missing rivets and hardware and around drain holes for evidence of corrosion damage. Ensure holes are open and free to flow.
8.11	Horizontal stabilizer hinge and latch mechanism for condition, security, and corrosion. (folding not required)
8.12	Red position light for cracked lens and security.
8.13	NVG formation light(s) for cracked lens and security.
8.14	Countermeasures set AN/ALQ-144, mount, and cables for condition, cleanliness, and security.
8.15	EGI antenna for condition and security. Check connector for corrosion, bent pins, and visible damage. Inspect EGI antenna coax cable for condition and security.

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: AVIONICS & AFT FUSELAGE (LEFT SIDE) - 9
9.1	Aft fuselage skin for ripples, cracks, punctures, and loose or missing rivets. Honeycomb shell for flaking or separation of edges, evidence of corrosion or blisters in outer skins, fluid entrapment (void or discoloration), and other damage. Special attention must be given to the lower aft cabin shell. Inspection requires emphasis for possible fluid entrapment in the lower shell area. Condition of sealant at all outside edges of panels and cabin shells.
9.2	Radar antenna for condition and security. (APR-39A(V)1)
9.3	AVR-2A antenna for condition and security. Around two drain holes (located at lower end of AVR-2A mount) for evidence of corrosion damage. Ensure holes are open and free to flow.
9.4	Bleed air heater intake for condition and security.
9.5	Grounding point for condition, security, and corrosion.
9.6	Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.
9.7	Lower step for condition and security.
9.8	Aft electrical compartment door condition and security. Around drain holes for evidence of corrosion damage. Ensure holes are open and free to flow.
9.9	Electrical circuit breakers and connectors for condition and security.
9.10	Aft fuel cell bulkhead for condition and security. External area of aft fuel cell bulkhead and compartment for fluid entrapment (voids), laminate separation, edge flaking, and corrosion damage.

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: AVIONICS & AFT FUSELAGE (LEFT SIDE) - 9
9.11	Avionics and electrical components for condition and security. Verify voltage regulator is set correctly for conditions.
9.12	Battery tiedown and connector for condition and security.
9.13	AVTR for condition and security and desiccant for moisture.
9.14	Directional control components and lines for leaks, condition, and security. Exposed portion of actuator rod for cleanliness.
9.15	Directional control tubes for condition, security, and corrosion. Bearings for binding or excessive wear.
9.16	Compartment for punctures, cracks, voids, cleanliness, and loose foreign objects. Secure aft electrical compartment door when complete.
9.17	NVG formation light(s) for cracked lens and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: AFT FAIRING ASSEMBLY (LEFT SIDE) - 10
10.1	Oil level in sight gauge on engine oil tank. Service engine oil system as required.
10.2	Aft tail rotor fanshaft bearing and coupling for condition, security, and overheating.
10.3	Vents in aft fairing assembly are clear. Inspect aft fairing assembly for condition and security.
10.4	External engine oil filter impending bypass indicator for popped button.
10.5	Clean ALQ-144 externally.

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: ENGINE (LEFT SIDE) - 11
11.1	Engine assembly for general condition and security; loose or missing bolts; broken, loose, or damaged electrical connections; security of mounting accessories; security of lockwiring and other retaining hardware; damage and chafing to lines, hoses, and fittings; evidence of fuel, air, and oil leakage; excessive wear of components; evidence of FOD, dirty components; cracks, dents, nicks, or chafing of components; condition of all welded joints. Ensure torquemeter oil pressure transducer vent holes are not covered by clamp.
11.2	Compressor module for condition and security.
11.3	Compressor scroll for condition and security. Pay particular attention to all welds and attachment areas; no cracks or punctures allowed.
11.4	Horizontal and vertical firewall shields for condition and security. Pay particular attention to any cracks.
11.5	Combustion chamber for cracks and evidence of overheating.
11.6	Accessory gearbox module for condition and security. Inspect for oil leaks and loose component mounting hardware. Inspect oil filter impending bypass indicator; it must not be extended.
11.7	Fuel filter for condition and security. Impending bypass indicator must not be extended.
11.8	Electrical harnesses and igniter lead for condition and security.
11.9	Tail rotor driveshaft and coupling for condition and security. Flex packs for separation, condition, and security.

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

Seq. No.	AREA NAME AND NUMBER: ENGINE (LEFT SIDE) – 11
11.10	Engine and cowling exhaust ducts for cracks, condition, and security.
11.11	AC generator and electrical leads for security, evidence of overheating, and damage.
11.12	Drain lines in engine deck for condition, chafing and security. Corrosion and drain lines. Ensure ports are open and free to flow. Check for hydraulic fluid coming from drain line from pump seal drain. (Do not confuse with hydraulic reservoir overflow.)
11.13	Engine mounts and hardware for condition, security, and corrosion damage.
11.14	Freewheeling unit for condition, security, and leakage.
11.15	**CAUTION** **No hand tools will be used for inspection of hardware.** **NOTE** **Rotation of blades may be necessary for complete inspection of driveshaft.** Inspect installation hardware for security and damaged threads. visually inspect driveshaft for scratches, nicks, dents, and corrosion. Inspect flexframes for nicks, cracks and security. Inspect flexframe hardware for condition and security – physically attempt to rotate flexframe bolts by hand. Refer to task 6–2–3.
11.16	Inspect all cowlings, fairings, and access panels for condition and security.
11.17	Vortex generators in particle separator for condition, security, and obstruction.
11.18	Clean and inspect inlet shield for mechanical and corrosion damage; components for security and loose or missing hardware or rivets; organic coating damage; door for ease of opening and security; window for cleanliness, clearness, damage, and security; and seals for presence, condition, and security.
11.19	Inspect EBF system engine filter and bleed air filter for condition, security, and obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

Seq No.		AREA NAME AND NUMBER: ACCESS DOOR & AVIONICS COMP (LEFT SIDE) - 12
12.1		Skin on door for cracks and condition. Inspect latches and hinges for cracks and wear.
12.2		Quick-disconnect pins for condition, proper operation, and lanyard for security.
12.3		Door entrance area for wear, condition, and condition of sealant at seams.
12.4		Door for fit and proper operation. Windows and vents for cleanliness and condition. Inspect condition of weatherstripping, aircraft serial number stenciled on the inside of door. Area around two drain holes, located in bottom of cabin access/avionics door, for evidence of corrosion damage. Ensure holes are open and free to flow.
12.5		AVR-2A antenna for condition and security. Check connector for corrosion, bent pins, and visible damage.
12.6		Transponder computer for condition and security.
12.7		Remote HELLFIRE Electronics (RHE) for condition and security.
12.8		Avionics and electrical components for condition and security.
12.9		Airborne Target Handover System (ATHS) for condition and security.
12.10	R	Improved Data Modem (IDM) for condition and security.
12.11		Directional control bellcranks for condition, security, bonding, or worn bearings.
12.12		MMS standpipe cable assembly at lower exit from standpipe and at passage through roof grommet.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: ACCESS DOOR & AVIONICS COMP (LEFT SIDE) - 12
12.13	Around backlash adapter for static oil seepage from transmission.
12.14	Fuel tank probe for condition, security, and evidence of leakage.
12.15	MMS power supply and MMS processor for condition and security.
12.16	Heater duct for condition and security.
12.17	Fire extinguisher for security, broken or missing seal, and current inspection date.
12.18	Master Controller Processor Unit (MCPU) for condition and security.
12.19	Integrated System Processor (ISP) for condition and security.
12.20	Radar altimeter for condition and security.
12.21	APR-44 comparator for condition and security.
12.22	Inertia reel for condition and security. Straps for security, cuts, and fraying.
12.23	Components on aft equipment shelf for condition and security.
12.24	Fuel cell access area for leakage and electrical components for condition and security.
12.25	All electrical wires in cabin area for loose connections or damaged insulation.
12.26	Cabin interior for cleanliness and loose foreign objects. Secure door when completed.
12.27	Embedded Global Positioning System/Inertial Navigation System (EGI) for condition and security.

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: CREW COMPARTMENT (LEFT SIDE) - 13
13.1	Honeycomb lower cabin shell for flaking or laminate separation of edges, evidence of corrosion or blisters in outer skins, fluid entrapment (void or discoloration), and other damage. Inspection requires emphasis for possible fluid entrapment in the lower shell area. Condition of sealant at all outside edges of panels and cabin shells. Water entrapment and corrosion damage on lower forward cabin shell.
13.2	Skin on door for cracks and damage, hinges for security and wear. Door post supporting structure for cracks, distortion, and tears. Check handle, latch, and locking brackets for security and wear.
13.3	Door for fit and ease of operation. Windows and vents for damage and cleanliness, condition of weather stripping, aircraft serial number stenciled on the inside of door. Area around two drain holes, located in bottom of cabin access/avionics door, for evidence of corrosion damage. Ensure holes are open and free to flow.
13.4	Door jettison handle for security and pins for damage and proper safety.
13.5	Armor side panel for cracks, delamination, and security. Close attention to hinge assembly and airframe attaching condition. Check armor latching assembly for security and ease of operation.
13.6	Seat and seat back covers for service life, tears, and other damage. Remove seat back and check condition of Velcro, seat frame, and crush panel for cracks, distortion, and security.
13.7	Seat belt and shoulder harness for cuts and fraying. Retarder springs for proper operation. Attachment fittings for condition and security. Check inertia reel for binding, positive locking, and unlocking.
13.8	Heater ducts for cracks and security.
13.9	Floor for condition and cleanliness, floor mic switch for condition and security.

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: CREW COMPARTMENT (LEFT SIDE) - 13
13.10	Directional control pedals and bellcranks for freedom of movement. Check pedal adjustment for ease of operation.
13.11	Directional control pedals, bellcrank, adjuster knob, support, and control tube for corrosion damage.
13.12	Crew console for condition and security of panels.
13.13	Circuit breaker panels on centerpost for condition and security.
13.14	Overhead utility light for condition and security.
13.15	Overhead window for cracks and evidence of leaking water.
13.16	FM antenna lead for condition and security.
13.17	Cyclic control disconnect assembly for proper operation, cracks, peening of the sockets, and other damage. Boot for deterioration and tears. Check interior of boot for debris.

WARNING

ENSURE CPG THROTTLE CONTROL TUBE IS PROPERLY SEATED IN THROTTLE ARM OF JACKSHAFT FITTING.

13.18	Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material. Boot for deterioration and tears. Check interior of boot for debris.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: PYLON – 14
14.1	Transmission oil filter and lines for condition, chafing, security, and leaks. Oil filter body, manifold assembly, and mounting hardware for corrosion damage.
14.2	**CAUTION** **No hand tools will be used for inspection of hardware.** **NOTE** **Rotation of blades may be necessary for complete inspection of driveshaft.** Inspect installation hardware for security and damaged threads. visually inspect driveshaft for scratches, nicks, dents, and corrosion. Inspect flexframes for nicks, cracks and security. Inspect flexframe hardware for condition and security – physically attempt to rotate flexframe bolts by hand. Refer to task 6–2–3.
14.3	Transmission pylon mount area (left side) for condition, security, cracks, and corrosion.
14.4	Transmission Attitude Measurement System (TAMS) Linear Variable Differential Transducers (LVDTs) (left side) for freedom of movement, condition, and security. Striker plates for evidence of corrosion.
14.5	Transmission for leakage (left side). Transmission top and bottom case, and input housing for corrosion damage.
14.6	Hydraulic pump and lines for condition, security, and leaks.
14.7	Hydraulic cyclic/collective actuators, hydraulic lines and hoses for condition, chafing, security, and leaks (left side). Actuators slotted head bolts through pilot input lever (sloppy links) for freedom to rotate and security. Check for binding or worn bearings. Exposed portion of actuator rods for cleanliness.
14.8	Hydraulic reservoir for condition and security. Presence of latch safety pin. Check oil level when fluid level falls below top of sight gauge; hydraulic system requires servicing. External area of hydraulic reservoir for evidence of corrosion damage.
14.9	Flight control push–pull tubes clevises, rod end bearings, and links for condition, security, binding, or worn bearings.
14.10	Cyclic/collective bellcranks for condition, security, binding, or worn bearings.
	"FOD REMINDER" **Check work area for tools and parts after completion of maintenance and inspection**

Seq No.	AREA NAME AND NUMBER: PYLON - 14
14.11	Main rotor hub, elastomeric bearings for deterioration and security.
14.12	Swashplate and support assembly for condition and security. Connecting linkage for binding or worn bearings. Three drain holes, located on lower surface of swashplate support, to be clean, dry, open, and free to flow. Check area around drain holes for evidence of corrosion damage.
14.13	Drive links for condition and security. Bushings/bearings for wear.
14.14	Main rotor mast (exposed portion) for chafing, nicks, scratches, cleanliness, and corrosion damage.
14.15	Pitch change links and rod end bearings for condition, security, binding, and excessive wear.
14.16	Main rotor hub assembly for condition, security, and corrosion/erosion damage.
14.17	Main rotor hub yoke for dents, splintering, edge delamination, and surface scratches.
14.18	Main rotor hub elastomeric bearings for condition and security.
14.19	Main rotor blades for condition, security, and erosion wear. Area around drain hole, located in end of main rotor blade tip, for evidence of corrosion damage. Ensure hole is open and free to flow. Visually inspect inboard erosion strip for blisters, debonding, or damage.
14.20	MMS for condition and security. Inspect lens on MMS sight for cracks and cleanliness.
14.21	MMS coolant level proper for conditions.
14.22	Lower shroud desiccants — remove and inspect.

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: PYLON - 14
14.23	Upper anticollision light for condition and security.
14.24	Engine cowling exhaust duct for condition, security, and cracks.
14.25	FM antennas for condition and security.
14.26	WSPS upper cutter assembly for condition and security.
14.27	Roof skin for cracks, punctures, voids, dents, and other damage and loose or missing rivets. Paint for chipped or peeling condition (left and right sides). Cabin roof outer honeycomb panels for flaking edges, fluid entrapment (voids or discoloration), and skin separation and internal doublers (around outer edges of panel) for evidence of corrosion damage.
14.28	Electrical cable assemblies for condition, security, chafing, and corroded connectors.
14.29	Hydraulic cyclic/collective actuators, hydraulic lines, and hoses for condition, chafing, security, and leaks (right side). Actuators slotted head bolts through pilot input lever (sloppy links) for freedom to rotate and security. Check for binding or worn bearings. Exposed portion of actuator rods for cleanliness.
14.30	Hydraulic filter housings and lines for condition, security, and leaks.
14.31	Check oil level in sight gauge on transmission. If oil is visible in yellow area of sight gauge, additional oil is not required.
14.32	Transmission pylon mount area (right side) for condition, security, cracks, and corrosion.

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: PYLON – 14
14.33	Transmission Attitude Measurement System (TAMS) Linear Variable Differential Transducers (LVDTs) (right side) for freedom of movement, condition, and security. Striker plates for evidence of corrosion.
14.34	Particle separator blower motor and duct for condition and security.
14.35	Main driveshaft for condition and security (right side).
14.36	**CAUTION** **No hand tools will be used for inspection of hardware.** **NOTE** **Rotation of blades may be necessary for complete inspection of driveshaft.** Inspect installation hardware for security and damaged threads. visually inspect driveshaft for scratches, nicks, dents, and corrosion. Inspect flexframes for nicks, cracks and security. Inspect flexframe hardware for condition and security – physically attempt to rotate flexframe bolts by hand. Refer to task 6–2–3.
14.37	APR–44 antennas and receivers for condition and security. Connectors for security, bent pins, corrosion and visible damage (if installed).
14.38	Upper IFF connectors for security.
14.39	EBF system bypass door actuator for condition and security.
14.40	Right access door FOD screen for condition and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: ALIGHTING GEAR - 15
15.1	Strap assemblies attaching forward and aft crosstube to fuselage for condition and security. Clamps for damage and security. Area around each attachment point (fuselage to alighting gear), bondline around two support mounting pads on forward and aft crosstubes, and hardware for corrosion damage.
15.2	Weight-on-gear switch and strike pad for condition and security.
15.3	Aft crosstube midpoint doubler for wear and debonding.

CAUTION

ABSENCE OF LATERAL ROCKING MOTION ABOUT AFT CROSSTUBE CENTER MOUNTING BOLT COULD RESULT IN GROUND RESONANCE AND AIRFRAME STRUCTURAL DAMAGE.

15.4	Check for lateral rocking motion about the aft crosstube center mounting bolt.
15.5	Forward and aft crosstube assemblies, skid tubes, and saddles for condition, security, and corrosion damage.
15.6	Skid shoes for condition and security.
15.7	Positive locking of rapid deployment landing gear.
15.8	Condition of vertical strut of rapid deployment landing gear.
15.9	Area around all rivets and bolts on skid tube saddles for evidence of corrosion damage.
15.10	Right hand and left hand gear support fittings for condition and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: FUSELAGE (BOTTOM SIDE) - 16
16.1	Honeycomb areas for dents, voids, punctures, sealant, and corrosion.
16.2	Blade antennas for condition and security.
16.3	Fuel sump for condition, security, and evidence of leakage.
16.4	Check radar altimeter antennas for condition and security.
16.5	Lower cabin shell for skin separation, fluid entrapment (voids or discoloration), flaking of edges, laminate separation, and corrosion damage in honeycomb. Condition of sealant around outer edges of cabin shell.
16.6	Drain holes and drain tubes for evidence of corrosion and chafing damage. Ensure holes and tubes are open and free to flow.
16.7	Rigging hole in pilot cyclic stick pivot coverplate assembly, on bottom of fuselage, for evidence of corrosion damage. Ensure hole is open and free to flow.
16.8	APR-44 antennas for condition and security.

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: UNIVERSAL WEAPONS PYLON - 17
17.1	Universal weapons pylon assembly, collet nut, and expandable bolt for condition and security.
17.2	UWP mount fittings visual inspection. Inspect for loose or missing fasteners, nicks, scratches, gouges, and overall condition. (Task 2-2-94 except UWP is not removed)
17.3	Connectors for cracks, corrosion, security, and missing pins.
17.4	Ejector rack for condition, cracks, corrosion, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: POWER ON CHECKS - P

NOTE

Power-on check is to be performed with the use of AC power applied to aircraft. If not available, particle separator blower motor can be checked during ground run. Operational checks that require three-phase AC power may be performed during ground run (MMS, TRU, armament, etc).

P.1 Power application:

a. AC external power applied, or

NOTE

If external DC power is not available, Essential Bus switch must be placed in RUN position if the defog blower motor, compartment blower motor, interior lights, and bypass door actuator (EBF equipped aircraft only) are to be checked. These checks may be performed during ground run. DC GEN switch must be in OFF position if DC external power is used.

b. DC external power applied, or

NOTE

Battery power only should be kept to a minimum especially if no external DC power is available.

c. Battery power applied:

(1) ESNTL BUS switch - Start

(2) BATT 1 switch - BATT 1

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: POWER ON CHECKS - P

(3) MPD - Check battery voltage and fuel quantity

(4) Engine monitor - Check

(5) BATT 1 switch - OFF after completion of all power on checks

P.2 Exterior lights for operation: position, anticollision, NVG position (if installed).

WARNING

AVOID LOOKING DIRECTLY AT NVG SEARCHLIGHT WHEN THE LIGHT IS ON. EYE DAMAGE CAN OCCUR.

P.3 Searchlight for proper operation, extend and rotate light 180 degrees and check NVG light for proper operation.

WARNING

EXERCISE CAUTION WHEN TOUCHING PITOT TUBE WITH FINGERS AS SERIOUS BURNS MAY RESULT.

P.4 PITOT HTR — HTR, check pitot heat is on, advisory message displays on MFD and pitot tube begins to warm, PITOT HTR — OFF.

P.5 Defog blower motors both Left and Right - ON and note no unusual noises, turn OFF.

P.6 Particle separator blower motor operating and no unusual noises (if external AC power is applied).

P.7 Interior lights for proper operation. (flood lights, console lights, instrument lights, and utility light).

P.8 Press FILTER/BYPASS switch - Check bypass door opens (actuator extends) and BYPASS segment illuminates.

P.9 Press FILTER/BYPASS switch - Check bypass door closes (actuator retracts) and BYPASS segment extinguishes.

“FOD REMINDER”

Check work area for tools and parts after completion of maintenance and inspection

Seq No.	AREA NAME AND NUMBER: FINAL INSPECTION - F
F.1	Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms as required.
F.2	Install protective covers and blade tiedowns as required.
F.3	Cabin and cockpit areas for loose equipment and cleanliness.
F.4	Batteries disconnected as required.

“FOD REMINDER”
Check work area for tools and parts after completion of maintenance and inspection

By Order of the Secretary of the Army:

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