TECHNICAL MANUAL

UH-1H/V AND EH-1H/X AIRCRAFT

PHASED MAINTENANCE CHECKLIST

This copy is a reprint which includes current pages from Changes 1 through 20.

HEADQUARTERS, DEPARTMENT OF THE ARMY
4 JANUARY 1983

U R G E N T

TM 55-1520-210-PM
C20

CHANGE

NO. 20

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 25 October 1999

TECHICAL MANUAL

UH-1H/V and EH-1H Aircraft
PHASED MAINTENANCE CHECKLIST

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Remove pages	Insert pages
----------	A/(B blank)
1-3 and 1-4	1-3 and 1-4
2-31 and 2-32	2-31 and 2-32
2-35 and 2-36	2-35 and 2-36
2-59 and 2-60	2-59 and 2-60

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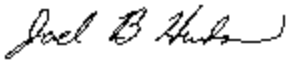

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CHANGE

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UH-1H/V and EH-1H/X Aircraft
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Remove pages	Insert pages
2-21 and 2-22	2-21 and 2-22
2-37 and 2-38	2-37 and 2-38
2-61/(2-62 blank)	2-61/(2-62 blank)

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Remove pages	**Insert pages**
1-1 through 1-4	1-1 through 1-4
1-9 and 1-10	1-9 and 1-10
_____	1-10.1/(1-10.2 blank)
1-13 and 1-14	1-13 and 1-14
2-3 and 2-4	2-3 and 2-4
2-11 and 2-12	2-11 and 2-12
2-19/(2-20 blank)	2-19/(2-20 blank)
2-21 through 2-24	2-21 through 2-24
2-29 through 2-32	2-29 through 2-32
2-33/(2-34 blank)	2-33 and 2-34
2-35 through 2-38	2-35 through 2-38
2-49/(2-50 blank)	249/(2-50 blank)
2-51 and 2-52	2-51 and 2-52
2-59/(2-60 blank)	2-59 and 260
2-61/(262 blank)	261(262 blank)

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TM 55-1520-210-PM
C17

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NO. 17

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UH-1H/V and EH-1H Aircraft
PHASED MAINTENANCE CHECKLIST

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Remove pages	insert pages
2-3 and 2-4	2-3 and 2-4
2-31 and 2-32	2-31 and 2-32
2-37 and 2-38	2-37 and 2-38

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UH-1H/V and EH-1H/X Aircraft
PHASED MAINTENANCE CHECKLIST

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Remove pages	Insert pages
1-13 and 1-14	1-13 and 1-14
2-3 and 2-4	2-3 and 2-4
2-9/2-10	2-9/2-10
2-27/2-28	2-27/2-28
2-29 and 2-30	2-29 and 2-30
2-31 and 2-32	2-31 and 2-32
2-51 and 2-52	2-51 and 2-52
2-53/2-54	2-53/2-54
2-61/2-62	2-61/2-62

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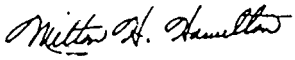

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CHANGE
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UH-1H/V and EH-1H/X Aircraft
Phased Maintenance Checklist

TM 55-1520-210-PM, 4 January 1983, is changed as follows:

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Remove pages	Insert pages
1-1 through 1-4	1-1 through 1-4
2-21 and 2-22	2-21 and 2-22

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TM 55-1520-210-PM
C 14

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 6 September 1990

UH-1H/V and EH-1H/X Aircraft
PHASED MAINTENANCE CHECKLIST

TM 55-1520-210-PM, 4 January 1983, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages	Insert pages
1-1 and 1-2	1-1 and 1-2
2-3 and 2-4	2-3 and 2-4
2-15 through 2-32	2-15 through 2-32
2-35 through 2-42	2-35 through 2-42
2-46.1/2-46.2	2-46.1/2-46.2
2-47 through 2-52	2-47 through 2-52
2-54.1/2-54.2	2-54.1/2-54.2
2-57/2-58 through 2-61/2-62	2-57/2-58 through 2-61/2-62

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TM 55-1520-210-PM
C 13

CHANGE
NO. 13

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 16 April 1990

UH-1H/V AND EH-1H/X AIRCRAFT
PHASED MAINTENANCE CHECKLIST

TM 55-1520-210-PM, 4 January 1983, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages	Insert pages
2-23/2-24	2-23 and 2-24
2-27/2-28	2-27/2-28
2-31 and 2-32	2-31 and 2-32

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CHANGE
NO. 12

HEADQUARTERS
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WASHINGTON, D.C., 22 November 1989

UH-1H/V AND EH-1H/X AIRCRAFT PHASED MAINTENANCE CHECKLIST

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Remove pages	Insert pages
1-3 and 1-4	1-3 and 1-4
2-7/2-8	2-7/2-8
2-23/2-24	2-23/2-24
2-27/2-28	2-27/2-28
2-31 and 2-32	2-31 and 2-32
2-49/2-50	2-49/2-50
2-55 and 2-56	2-55 and 2-56

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TM 55-1520-210-PM
C 11

CHANGE
NO. 11

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UH-1H/V AND EH-1H/X AIRCRAFT
PHASED MAINTENANCE CHECKLIST

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Remove pages	Insert pages
2-17 and 2-18	2-17 and 2-18
2-27/2-28	2-27/2-28
2-31 and 2-32	2-31 and 2-32
2-46.1/2-46.2	2-46.1/2-46.2

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CHANGE
NO. 10

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 6 June 1988

UH-1H/V AND EH-1H/X AIRCRAFT PHASED MAINTENANCE CHECKLIST

TM 55-1520-210-PM, 4 January 1983, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages	Insert pages
1-9 and 1-10	1-9 and 1-10
2-3 and 2-4	2-3 and 2-4
2-7/2-8	2-7/2-8
2-13/2-14	2-13/2-14
2-17 and 2-18	2-17 and 2-18
2-45/2-46	2-45/2-46

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

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URGENT

TM 55-1520-210-PM
C 9

CHANGE NO. 9

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 26 February 1986

UH-1H/V AND EH-1H/X AIRCRAFT
PHASED MAINTENANCE CHECKLIST

TM 55-1520-210-PM, 4 January 1983, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages	Insert pages
1-3 and 1-4	1-3 and 1-4
1-9 and 1-10	1-9 and 1-10
1-13 and 1-14	1-13 and 1-14
2-3 and 2-4	2-3 and 2-4
2-46.1/2-46.2	2-46.1/2-46.2
2-47 and 2-48	2-47 and 2-48
2-51 and 2-52	2-51 and 2-52

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TM 55-1520-210-PM
C 8

CHANGE NO. 8

HEADQUARTERS
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UH-1H/V AND EH-1H/X AIRCRAFT
PHASED MAINTENANCE CHECKLIST

TM 55-1520-210-PM, 4 January 1983, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages	Insert pages
1-15 and 1-16	1-15 and 1-16
2-35 and 2-36	2-35 and 2-36
2-41 and 2-42	2-41 and 2-42
2-53 and 2-54	2-53/2-54
- - -	2-54.1/2-54.2
2-59/2-60	2-59/2-60
2-61/2-62	2-61/2-62

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LIST OF EFFECTIVE PAGES

Insert latest changed pages. Dispose of superseded pages in accordance with regulations.

NOTE: On a changed page, the portion of text affected by the latest change is indicated by vertical line in the outer margin of the page. Changes to illustrations are indicated by a miniature pointing hand.

DATES OF ISSUE FOR ORIGINAL AND CHANGED PAGES ARE AS FOLLOWS:

Original ……..0…….04 January 1983
Change ……..1…….31 January 1983
Change ……..2…….18 March 1983
Change ……..3…….18 April 1983
Change ……..4…….14 March 1984
Change ……..5…….18 April 1985
Change ……..6…….19 April 1985
Change ……..7…….12 July 1985
Change ……..8…….15 October 1985
Change ……..9…….26 February 1986
Change ……..10……06 June 1988
Change ……..11…….22 August 1988
Change ……..12…….11 November 1989
Change ……13……16 April 1990
Change ……..14…….06 September 1990
Change ……..15…….22 February 1991
Change ……..16…….30 April 1992
Change ……..17…….15 November 1995
Change ……..18…….01 July 1996
Change ……..19…….13 January 1997
Change ……..20…….25 October 1999

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 96, CONSISTING OF THE FOLLOWING:

Page Number	* Change Number	Page Number	* Change Number	Page Number	* Change Number
Cover	0	2-11	0	2-40	0
A	20	2-12	18	2-41 – 2-42	14
B blank	20	2-13	10	2043	5
1-1	0	2-14 blank	0	2-44 blank	0
1-2 – 1-3	18	2-15- 2-18	14	2-45	10
1-4	20	2-19	18	2-46 blank	0
1-5 – 1-8	0	2-20 blank	0	2-46.1	14
1-9	9	2-21	18	2-46.2 blank	0
1-10	18	2-22	19	2-47 – 2-48	14
1-10.1	18	2-23	14	2-49	18
1-10-2	0	2-24	18	2-50 blank	0
1-11 – 1-12	18	2-25 – 2-26	14	2-51	18
1-13 – 1-14	18	2-27	16	2-52 – 2-53	16
1-15 – 1-16	8	2-28 blank	0	2-54 blank	16
2-1	0	2-29	18	2-54.1	14
2-2 blank	0	2-30	14	2-54.2 blank	0
2-3	17	2-31	18	2-55	12
2-4	18	2-32	20	2-56	5
2-5	0	2-33 – 2-34	18	2-57	14
2-6 blank	0	2-35	8	2-58 blank	0
2-7	12	2-36	20	2-59	20
2-8 blank	0	2-37	14	2-60	18
2-9	16	2-38	19	2-61	19
2-10 blank	0	2-39	0	2-62 blank	0

* A zero in this column indicates an original page.

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 4 January 1983

UH-1H/V AND EH-1H/X AIRCRAFT

PHASED MAINTENANCE CHECKLIST

WARNING

CERTAIN INSPECTIONS ARE MANDATORY SAFETY-OF-FLIGHT REQUIREMENTS, AND THE INSPECTION INTERVALS CANNOT BE EXCEEDED. IN THE EVENT THESE INSPECTIONS CANNOT BE ACCOMPLISHED AT THE SPECIFIED INTERVAL, THE AIRCRAFT CONDITION STATUS SYMBOL WILL BE IMMEDIATELY CHANGED TO A RED X. MANDATORY SAFETY-OF-FLIGHT INSPECTION ITEMS ARE PRINTED IN BOLD FACE TYPE.

NOTE

INSPECTION ITEMS CONTAINED IN THIS MANUAL ARE CONSIDERED THE MINIMUM REQUIREMENTS FOR PERFORMING PHASED MAINTENANCE AND MUST BE PERFORMED. THE CUMULATIVE EFFECTS OF INSPECTION DEFERRALS ARE UNKNOWN AND COULD RESULT IN CATASTROPHIC FAILURE OR INCREASED MAINTENANCE AT A LATER DATE. THEREFORE, THE USE OF SPECIAL LETTERING TO EMPHASIZE MANDATORY SAFETY-OF-FLIGHT INSPECTION ITEMS IS NOT TO BE CONSTRUED AS AUTHORITY FOR DEFERRAL OF OTHER INSPECTIONS.

*** This manual supersedes TM 55-1520-210-PM, 20 July 1978, including all changes.**

SECTION I - GENERAL INFORMATION

1-1. PHASED SCHEDULE. This phased maintenance inspection checklist contains requirements for inspection of the UH-1H/V and EH-1H/X aircraft on phased schedule having a 900 hour (flight hours) cycle with 150 hour phases. Each requirement included herein is designated for accomplishment at least once, but not more than six times during the 900 hour cycle.

1-2. EXCEEDING THE PHASED SCHEDULE. The phased maintenance inspection intervals designated are the maximum and shall not be exceeded except in actual operational emergencies as explained herein. It is the Commander's responsibility to determine (on an individual aircraft 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 aircraft or personnel. Those inspections annotated by a C in the Inspect Phase No's column along with the DA Form 2408-18 (Equipment Inspection Record) items that are due are considered the MINIMUM mandatory Combat maintenance inspection requirements for helicopters scheduled for imminent deployment to or stationed in a combat environment. Under no circumstances will two Combat Phase inspection be performed sequentially. When inspections are delayed to meet emergency requirements, Commanders will assure that the **I** aircraft status symbol reverts to a red "X" and that delayed inspections are accomplished immediately upon termination of the actual emergency. When unusual local conditions (utilization, type of mission personnel, periods of inactivity, environmental conditions, etc.) dictate, it is the prerogative and responsibility of the Maintenance Officer to increase the scope and/or frequency I of maintenance as necessary to insure safe operation (TM 1-1500-328-23).

1-3. MAINTENANCE ACTIVITIES. The inspections prescribed by this checklist will be accomplished at specified phases by Aviation Unit Maintenance (AVUM) activities with assistance of Aviation Intermediate Maintenance (AVIM) and Depot Maintenance activities when required.

1-4. LIMITATIONS. The checklist does not contain instructions for repair, adjustment or other means of rectifying conditions. Neither does it contain special tolerances, limits or instructions for special troubleshooting to find causes for malfunctions. Such data will be obtained from the latest issue of the aircraft (TM 55-1520-210-23) series maintenance manuals.

1-5. CHANGEOVER TO THE PHASED MAINTENANCE SYSTEM. Changeover shall be accomplished in accordance with instructions provided in TB 55-1500-337-24 entitled, "Phased Maintenance System for Army Aircraft". The requirements of this TB must be accomplished prior to implementation of Phase 1 inspection requirements specified in this checklist.

1-6. PRE-INSPECTION MAINTENANCE TEST FLIGHT (MTF). A pre-inspection MTF to duplicate nonhazardous equipment problems, determine unsatisfactory conditions, determine equipment operations problems, etc., is recommended prior to start of aircraft disassembly for phased maintenance inspection. The decision to perform the pre-inspection MTF, however, shall be the responsibility of the unit Maintenance Officer.

1-7. SPECIAL INSPECTION, CALENDAR INSPECTION AND LUBRICATION REQUIREMENTS. Special inspection, calendar inspection and lubrication requirements contained in C(M 55-1520-210-23) and those listed on the aircraft DA Form 2408-18 shall be reviewed and accomplished in accordance with the "inspection due" requirements specified in those documents.

1-8. TIME BETWEEN OVERHAUL (TBO) AND RETIREMENT LIFE ITEMS CHECK. Prior to start of the applicable phased maintenance inspection, a check will be made of components and their remaining operating hours prior to removal. The latest issue of the aircraft, TM 55-1520-210-23 and DA Form 2408-16, shall be referred to for a complete listing of components and their TBO and retirement life.

1-9. USING THE PHASED INSPECTION CHECKLIST. For use of the phased inspection checklist, refer to DA Pam 738-751.

1-10. FINAL RECORDS CHECK. After all corrective actions have been completed and following completion of the phased inspection, the technical inspector or designated supervisor shall verify that all applicable forms and records have been properly updated. Any fault not corrected will be carried forward to a new DA Form 2408-13 or reentered on DA Form 2408-14. A final records checklist (Table 1-2) is provided to ensure forms and records have been inspected for completeness and accuracy prior to release of the aircraft from the phased maintenance inspection. The inspector verifying the final records check shall enter his initials adjacent to the indicated form or record on the Final Records Checklist. The initials entered shall be registered on the Signature Sheet (Table 1-1) adjacent to that person's signature.

1-11. SIGNATURE SHEET. All personnel performing inspection and/or maintenance tasks shall place their signatures and initials on the signature sheet (Table 1-1). The purpose of the signature sheet is to provide a correlation between initials entered on the individual checklist sheets and the actual names of the personnel accomplishing these tasks.

1-12. MAINTENANCE OPERATIONAL CHECKS. After the completion of any required corrective actions to any of the components of the function system of the aircraft, maintenance operational checks (MOC) shall be performed on that system to determine the effectiveness of maintenance actions performed and to verify to proper operation of that system. These MOC shall be performed in accordance with TM 1-1500-328-23. Copies of DA Form 240813-1 (Figure 1-1) and DA Form 2408-13-2 (Figure 1-1.1) may be used to record and sign off the MOC performed.

1-13. MAINTENANCE TEST FLIGHT. When all required inspections in Section II have been accomplished and initialed in accordance with the above procedures, a daily inspection in accordance with the TM specified in Section II will be preformed on the aircraft to permit a maintenance test flight (MTF) to be made. The MTF shall be performed in accordance with the requirements of TM 55-1520-242-MTF and TM 1-1500-328-23, using the MTF Form in the MTF Technical Manuals. A suggested maintenance test flight checksheet (Figure 1-5) and Rotor Smoothing Record (Figure 1-6) are provided at the end of Section I.

1-14. CHECKLIST DISPOSITION. The completion of each phased maintenance shall be recorded on DA Form 2408-13 and DA Form 2408-15 as prescribed by DA PAM 738-751. The signed checklist, together with all continuation sheets shall be attached to DA Form 2408-13, and filed for the six month period as required by DA PAM 738-751.

1-15. INSPECTION AREAS. Figures 1-2 and 1-3 show the inspection areas of the UH-1H/V and EH-1H/X aircraft. These areas are titled as shown below. Figure 1-4 shows the location of access doors and panels which require removal at various phased maintenance inspections. Access panels and doors are identified by number of the text where applicable. Additional panels and doors may be removed as required to facilitate inspection requirements.

1-15.1 This TM checklist may contain inspection requirements applicable to specific equipment not installed on your aircraft. Those requirements should be disregarded

1-16. Deleted.

1-17. 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 located in the back of this manual direct to: Commander, U.S. Army Aviation and Missile Command (AMCOM), ATTN: AMSAM-MMC-LS-LP, Redstone Arsenal, AL 35898-5230. You may also submit your recommended changes by E-mail directly to ls-lp@redstone.army.mil, or by fax at 256-842-6546 or DSN 788-6546. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hardcopy DA Forms 2028.

AREA NO.	AREA TITLE
1	Aircraft Exterior
2	Nose Area
3	Forward Radio/Battery Compartment
4	Cockpit Interior
5	Cabin Interior
6	Under Floor Cockpit/Cabin
7	Lower Pylon Area (Via Cabin Interior)
8	Upper Pylon Area (Via Cabin Roof)
9	Main Rotor and Mast Area
10	Engine Air Induction Area
11	Engine Compartment
12	Cabin Roof
13	Cabin Sides, Bottom and Landing Gear
14	Under Cabin Pylon Area (Hell Hole)
15	Mid Fuselage Under Engine Deck
16	Electronic Comm. Compartments
17	Engine Area Exterior
18	Tailboom Interior
19	Tail Rotor Drive Train Area
20	Tail Rotor and Gearbox Area
21	Oil Cooler Aft Battery Compartment
22	Heater Compartment

Table 1-1. Signature Sheet (Sheet 1 of 3)

Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Maintenance Supervisor	Initial
Signature of Technical Inspector	Initial
Signature of Maintenance Officer	Initial

Table 1-1. Signature Sheet (Sheet 2 of 3)

Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Maintenance Supervisor	Initial
Signature of Technical Inspector	Initial
Signature of Maintenance Officer	Initial

Table 1-1. Signature Sheet (Sheet 3 of 3)

Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Person Accomplishing Necessary Work	Initial
Signature of Maintenance Supervisor	Initial
Signature of Technical Inspector	Initial
Signature of Maintenance Officer	Initial

Table 1-2. Final Records Checklist

This checklist is provided to insure the indicated forms and records have been inspected for presence, completeness, legibility, and accuracy prior to releasing the aircraft from a phase inspection. Verification of inspection will be indicated by placing the initials of the inspector in the appropriate initial block (refer to DA PAM 738-751).

AIRCRAFT LOG BOOK	INITIAL	HISTORICAL RECORDS	INITIAL
DA FORM 2408		DA FORM 2408-5	
DA FORM 2408-12		Delete	
DA FORM 2408-13		DA FORM 2408-15	
DA FORM 2408-14		DA FORM 2408-16	
DA FORM 2408-18		DA FORM 2408-17	
TM 55-1520-210-PMD		DA FORM 2408-19	
TM 55-1520-242-MTF		DA FORM 2408-20	
LOCALLY REQUIRED FORMS		LOCALLY REQUIRED FORMS	

PRODUCTION CONTROL RECORDS	INITIAL	QUALITY CONTROL	INITIAL
FLOW CHART		TBO FILE	
STATUS BOARD		QA FILE	
WORK ORDER FILE		SERIAL NUMBER FILE	
MWO FILE		AOAP FILE	
Delete		INVENTORY RECORDS	
1352 REPORTS		WEIGHT AND BALANCE	
LOCAL RECORDS		MSG FILE	
		DA FORM 2410 SUBMITTED	
		LOCAL RECORDS	

1. AIRCRAFT SERIAL NUMBER	2. MODEL	3. DATE	4. PAGE

PART I - FAULT INFORMATION

STATUS	SYS	DATE	NO.	TIME	PID

FAULT/REMARKS

A/C HRS	WHEN DISC	HOW REC	MAL EFF	WUC
W.O.	REQ	OTHER		

STATUS	SYS	DATE	NO.	TIME	PID

FAULT/REMARKS

A/C HRS	WHEN DISC	HOW REC	MAL EFF	WUC
W.O.	REQ	OTHER		

STATUS	SYS	DATE	NO.	TIME	PID

FAULT/REMARKS

A/C HRS	WHEN DISC	HOW REC	MAL EFF	WUC
W.O.	REQ	OTHER		

PART II - CORRECTING INFORMATION

DATE	TIME	HRS
ROUNDS	ACTION CODE	WUC

ACTION

PID	HOURS	PID	HOURS	PID	HOURS

CMH	OMH	FMH	DMH
TIPID	TI MAN-HOURS		

DATE	TIME	HRS
ROUNDS	ACTION CODE	WUC

ACTION

PID	HOURS	PID	HOURS	PID	HOURS

CMH	OMH	FMH	DMH
TIPID	TI MAN-HOURS		

DATE	TIME	HRS
ROUNDS	ACTION CODE	WUC

ACTION

PID	HOURS	PID	HOURS	PID	HOURS

CMH	OMH	FMH	DMH
TIPID	TI MAN-HOURS		

DA FORM 2408-13-1, OCT 91

AIRCRAFT INSPECTION AND MAINTENANCE RECORD
For use of this form, see DA PAM 738-751; the proponent agency is DCSLOG

Figure 1-1. DA Form 2408-13-1

DATE _____ Page _____

1. STATUS		2. SERIAL NUMBER	3. SYSTEM CODE	4. TIME
		5. FAULT DATE	6. FAULT NUMBER	

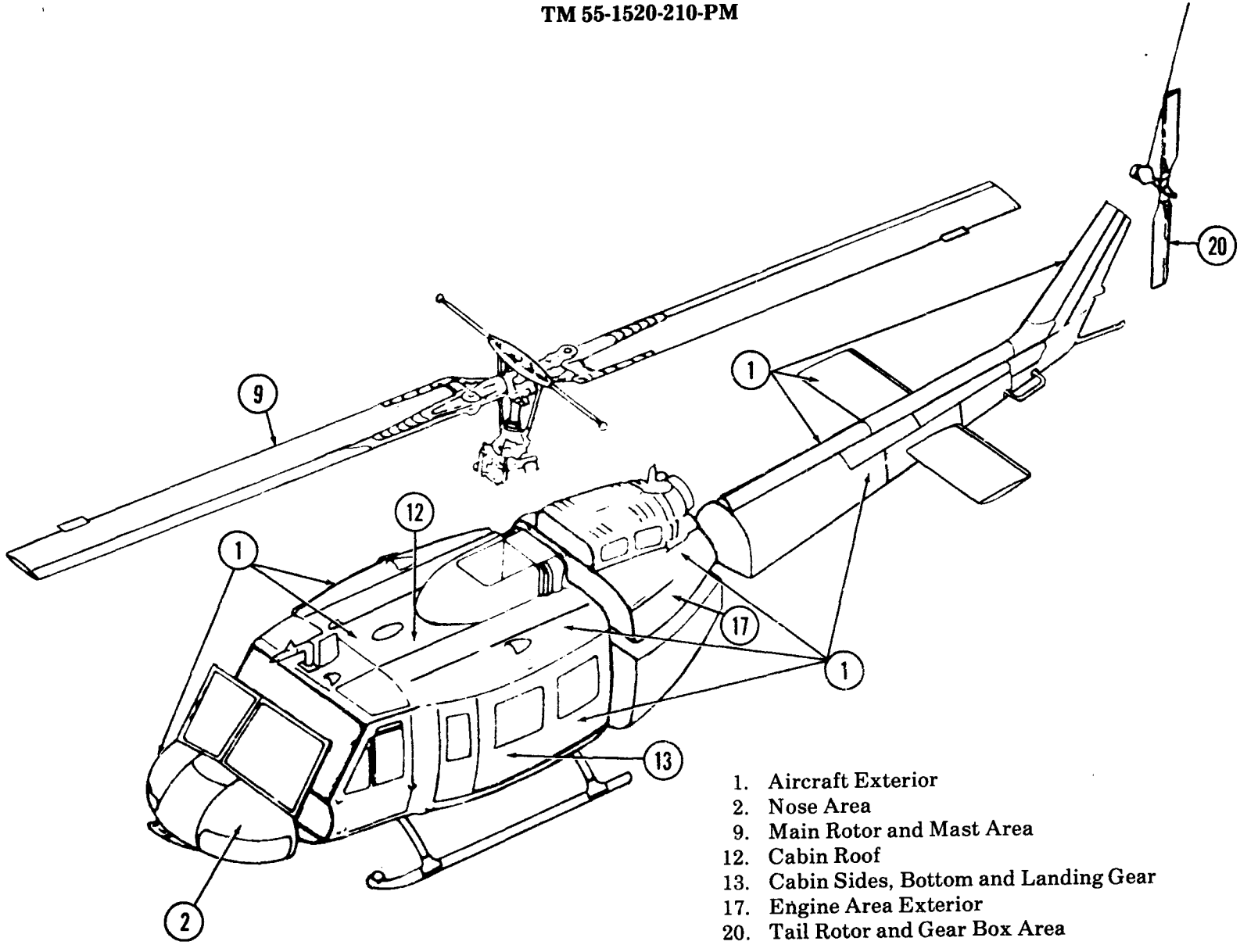
7. FAULT _____

8. STA	9. FAULT	10. ACTION	11. PID	12. MMH

DA FORM 2408-13-2, NOV 91 RELATED MAINTENANCE ACTIONS RECORD

For use of this form, see DA PAM 738-751;the proponent agency is DCSLOG

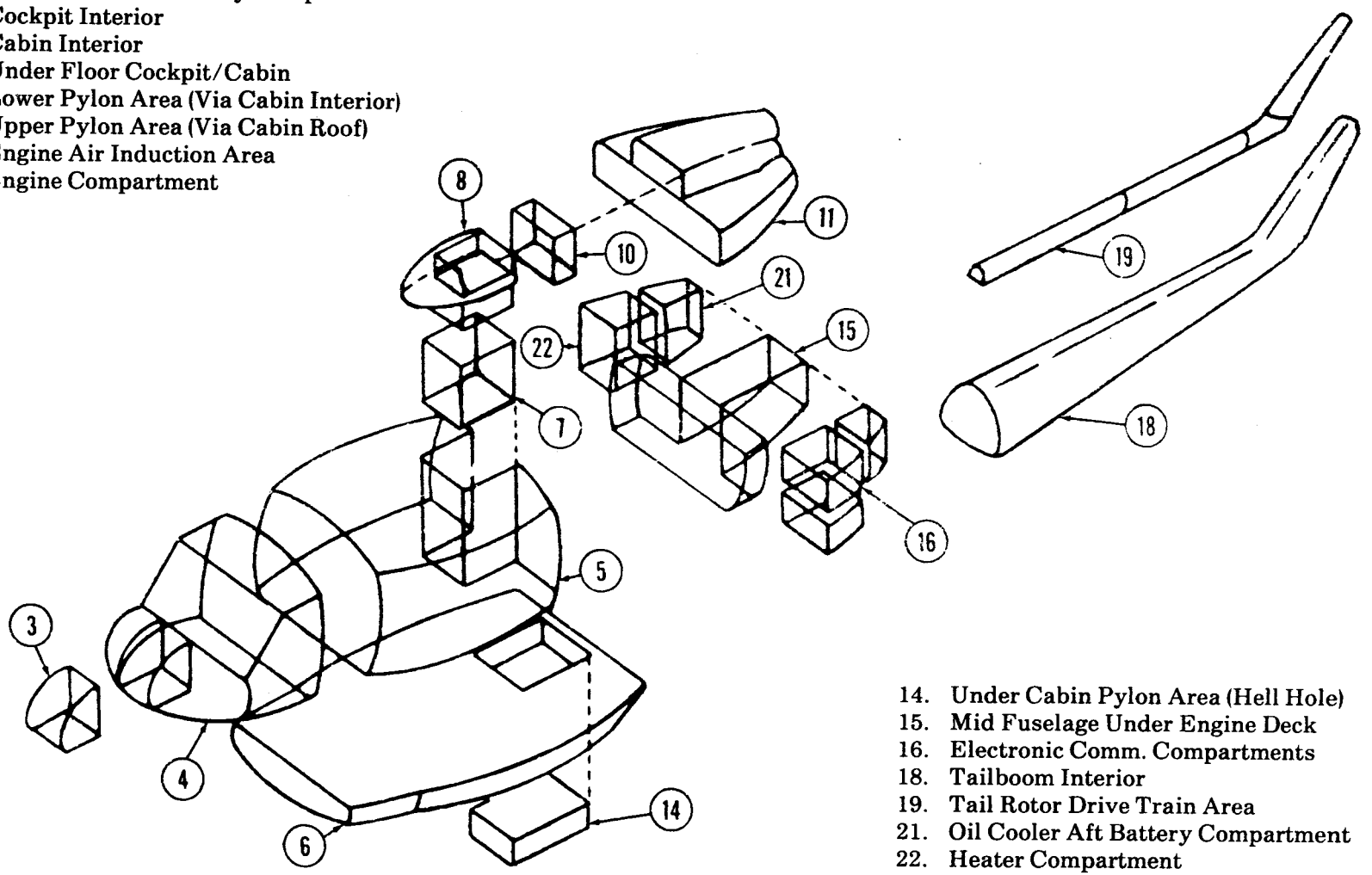
Figure 1-1.1. DA Form 2408-13-2



1. Aircraft Exterior
2. Nose Area
9. Main Rotor and Mast Area
12. Cabin Roof
13. Cabin Sides, Bottom and Landing Gear
17. Engine Area Exterior
20. Tail Rotor and Gear Box Area

Figure 1-2. Exterior Inspection Areas

3. Forward Radio/Battery Compartment
4. Cockpit Interior
5. Cabin Interior
6. Under Floor Cockpit/Cabin
7. Lower Pylon Area (Via Cabin Interior)
8. Upper Pylon Area (Via Cabin Roof)
10. Engine Air Induction Area
11. Engine Compartment



14. Under Cabin Pylon Area (Hell Hole)
15. Mid Fuselage Under Engine Deck
16. Electronic Comm. Compartments
18. Tailboom Interior
19. Tail Rotor Drive Train Area
21. Oil Cooler Aft Battery Compartment
22. Heater Compartment

Figure 1-3. Interior Inspection Areas

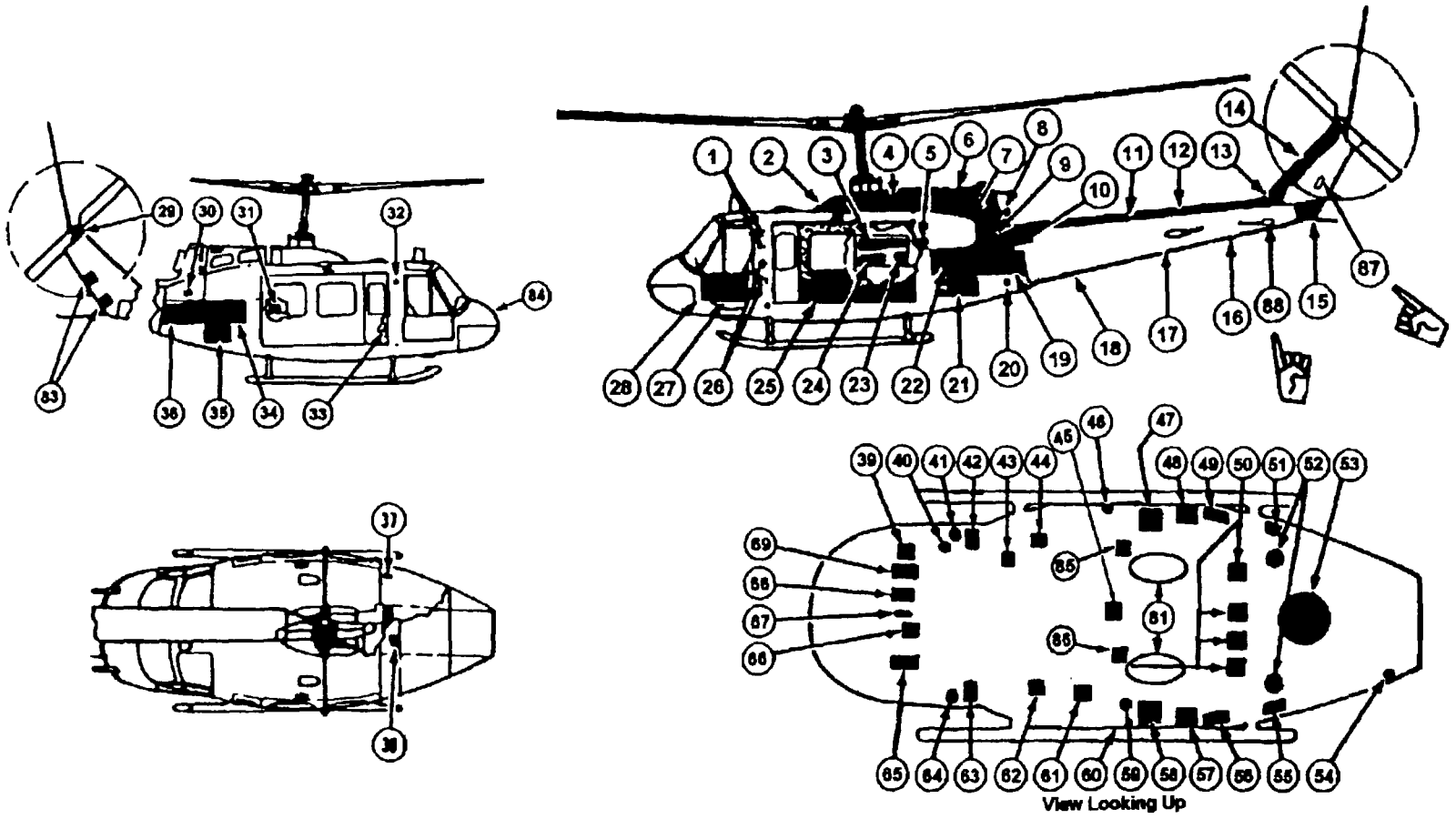
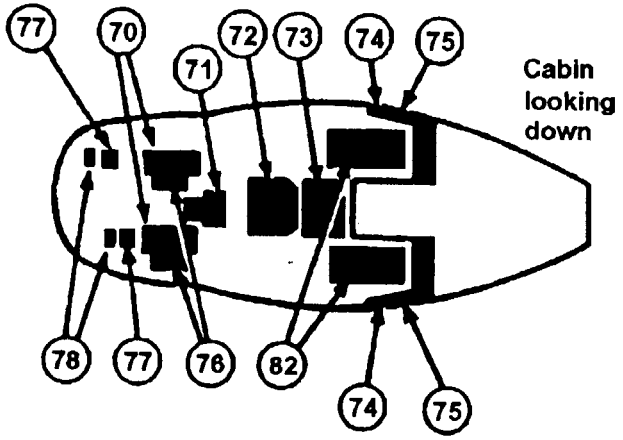
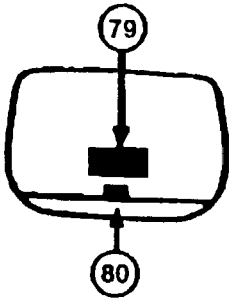


Figure 1-4. Model UH-1H/V and EH-1H/X Access and Inspection Provisions (Sheet 1 of 2)





1 Stowage Access Door
2 Transmission Faking
3 Pylon Access Door
4 inlet Screens
5 Fire Extinguishing Access Door
6 Upper Engine Cowl
7 Lower Engine Cowl
8 Tailpipe Fairing (Upper)
9 Driveshaft and Electrical Disconnect Access Door
10 Tailpipe Faking (Lower)
11 Forward Tail Rotor Shaft Access
12 Aft Tai Rotor Shaft Access
13 Intermediate (42°) Gearbox Access
14 Vertical Fin Driveshaft Access
15. Vertical Fin Fairing
16. General Access
17 Flight Controls Access Door
18 Fight Controls Access Door
19 Electrical Controls Access Door
20 External Power Access Door
21 Electronic Equipment Access Door
22 General Access Door
23 Fuel Shutoff Valve Access
24 Lower Pylon Access Door
25 Cargo Door
26 Emergency Door Release Cover Palate
27 Lower Window Access Door
28 Crew Door
29 Tail Rotor Chain Access Cover
30 Driveshaft Access Door
31 General Access Door
32 General Stowage Access Door
33 General Access Cover Plate
34 Cargo Hook Mirror Access Door
35 General Access Door
36 General Access Door
37 Engine Oil Tank Access Door
38 Fuel Cell Access Door
40 Flight Controls Access Door
41 Flight Controls Access Door
42 Flight Controls Access Door
43 Flight Controls Access Door
44 General Access Door
45 Fuel Lines Access Door
46 External Stores Jettison Cable
47 External Stores Disconnect Access Door
48 Fuel Lines Access Door
49 Ammunition Chute Access Door
50 Fuel lines Access Doors (4 ea)
51 Cabin Heater Duct Access Door
52 Fuel Lines Access Door
53 General Access Door
54 General Access Door
55 Cabin Heater Duct Access Door
56 Ammunition Chute Access Door
57 Fuel Lines Access Door
58 External Stores Disconnect Access Door
59 Fuel Lines Access Door
60 External Stores Jettison Cable Access Door
61 General Access Door
62 Cabin Heater Duct Access Door
63 Cabin Heater Duct Access Door
64 Flight Controls Access Door
65 Flight Controls Access Door
66 Flight Controls Access Door
67 Antenna Access Cover
68 General Access Door
69 Flight Controls Access Door
70 Controls Access Door
71 Controls Access Door
72 General Access Door
73 General Access Door
74 Auxiliary Fuel Tank Fittings Cover Plate
75 Gun Chute Tunnel Cover Plate
76 Dual Collective Stick Cover
77 Dual Cyclic Stick Access
78 Cyclic Stick Electrical Access Door
79 Hydraulic Controls Access Door
80 Armament Provisions Access Cove
81 Fuel Pump Access Panel
82 Fuel Cell Access Doors
83 Tall Boom Access Doors
84 Battery Access Door
85 Fuel Lines Access Door
86 Fuel Lines Access Door
87 Vertical Fin Access Cover R/S
88 Tail Boom Access over

Figure 14. Model UH-1H/V and UH-1H/X Access and Inspection Provisions (Sheet 2 of 2)

UH-1 C, H, M, V & EH-1H/x

PURPOSE OF MTF	FAT	ACFT MODEL & SN	DATE

PILOT	UNIT

SYMBOLS ✓ = SATISFACTORY X = DEFICIENCY

	Prior to Test Flight		2. Power Check
	1. Forms and Records		3. Control Responses Checks
	2. Flight Readiness Insp.		4. Pylon Mounts Checks
	3. Weight and Balance		5. Engine Response
	4. Engine Baseline Data		6. Power Cylinder
	TQ ____ N1 ____ EGT ____		7. Low RPM Hover
	Starting Engine		8. Hover in Emergency
	1. Press to Test Lights		9. Torque Meter ____ PSI
	2. Fire Warning Light		LEVEL OFF CHECKS
	3. Caution Panel Lights		1. Eng Oil Press ____ Temp ____
	4. Throttle System Cushion		2. XMSN Oil Press ____ Temp ____
	OPEN ____ CLOSED ____		3. EGT ____ °C
	ENGINE RUNUP		4. Airspeed Indicators
	1. Engine Idle ____ % N1		INFLIGHT CHECK
	2. Emerg Gov Switch		1. Control Rigging
	3. Hydraulic System		2. Autorotation RPM
	4. Fuel Boost Pumps		3. Hydraulics Off
	Right ____ PSI Left ____ PSI		4. TEAC: PA ____
	5. Bleed Band Operation		FAT ____ TQ ____
	OPEN ____ CLOSE ____ %N1 FAT ____		N1 ____ EGT ____
	6. Variable Inlet Guide Vanes		5. Stabilizer Bar
	BEGIN TO OPEN ____ % N1 FAT ____		6. Vibration Analysis
	7. Fuel Quantity Gage		7. Cyclic Rigging
	8. Pitot Heater		8. Fuel Consumption Initiate
	9. Spare Inverter		TIME ____ FUEL ____
	AB ____ AC ____ BC ____		9. Instruments
	10. Main GEN ____ VDC		Altimeters Att. Ind.
	11. STBY GEN ____ VDC		VSI Stby Comp
	12. Main Inverter		RMI Clock
	AB ____ AC ____ BC ____		Turn & Slip
	13. Bleed Air Heater		10. Comm/NAV Radios
	14. Deice Operation		UHF VHF FM1 FM2
	15. Low RPM Warning		VOR ADF LOC/GS
	Off ____ On ____		MB XPONDER
	16. GOV INCR/DECR		MODE C
	Full Incr ____ DECR ____		11. Fuel Consump. Complete
	Travel Time ____ SEC		Time ____ Fuel ____
	17. High RPM Warning		AFTER LANDING/ENGINE SHUTDOWN
	OFF ____ ON ____		1. EGT ____
	18. Force Trim System		2. Eng Oil Press ____ Temp ____
	19. Collective Friction		3. XMSN Oil Press ____ Temp ____
	UP ____ DOWN ____		4. Eng Idle ____ %N1
	20. Eng Oil Press ____ Temp ____		5. Battery
	21. XMSN Oil Press ____ Temp ____		6. Eng Oil Press Lite
	22. Fuel Press ____ PSI		7. XMSN Oil Press Lite
	23. Torque Press ____ PSI		8. N1 Coastdown Time ____ Sec
	24. EGT ____ °C		9. Emerg. Collective Accum.
	25. Altimeters ____ P ____ CP		10. Post Flight
	BEFORE TAKEOFF		11. Forms & Records Complete
	1. HIT Check		SPECIAL REQUIREMENT (LIST)
	HOVER CHECK		1.
	1. Takeoff to hover		2.

Figure 1-5. Suggested Format of Maintenance Test Flight Check Sheet.

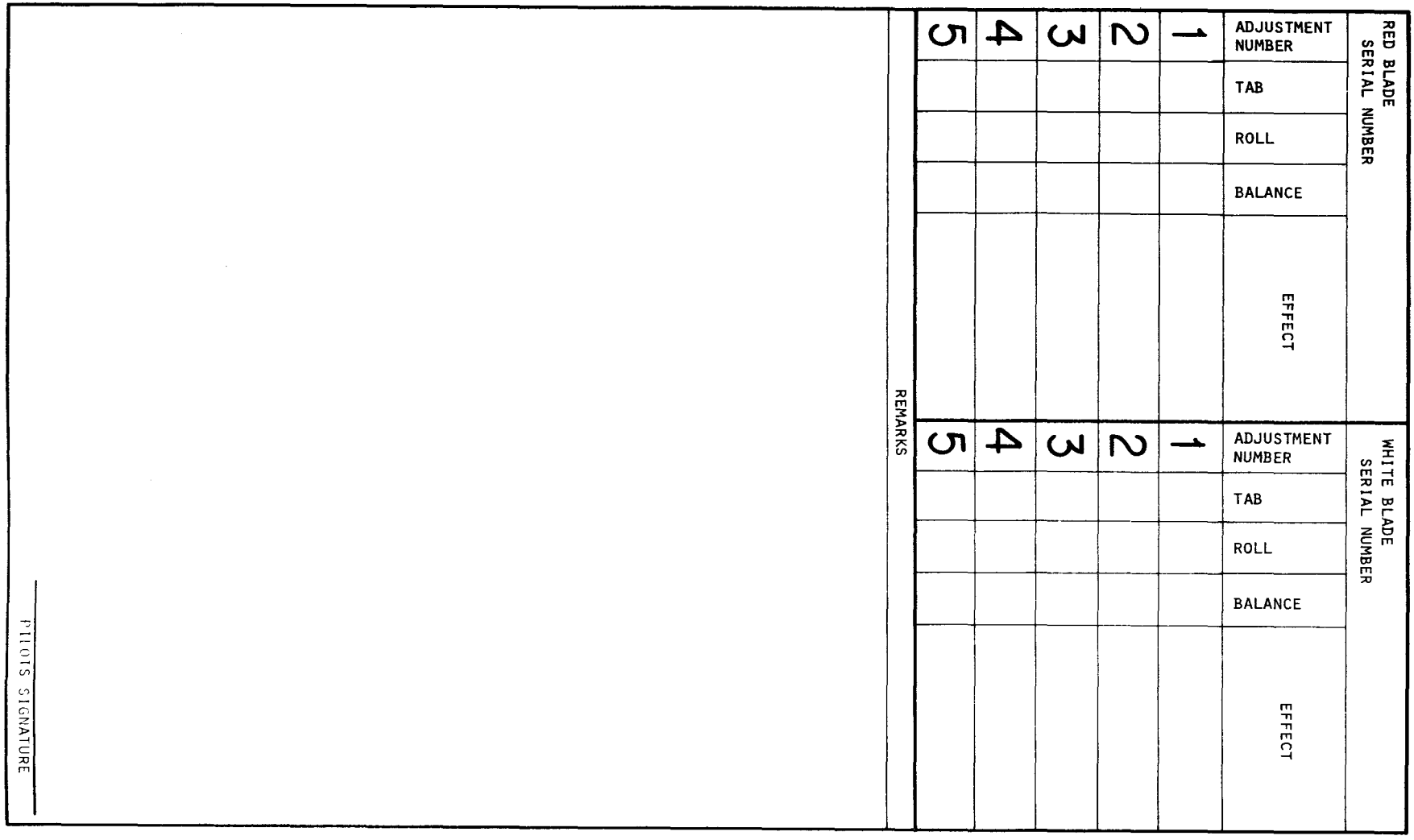


Figure 1-6. Suggested Format of Rotor Smoothing Record

SECTION II - INSPECTION CHECKLIST

NOTE

PRIOR TO START OF THE PHASED MAINTENANCE INSPECTION, IT IS RECOMMENDED THAT A PRE-INSPECTION MAINTENANCE TEST FLIGHT (MTF) BE CONDUCTED. ACCOMPLISHMENT OF THE MTF SHALL BE DETERMINED BY THE UNIT MAINTENANCE OFFICER. THE PRE-INSPECTION MTF SHOULD BE CONDUCTED BY A MAINTENANCE TEST PILOT FOLLOWING A REVIEW OF THE AIRCRAFT FORMS AND RECORDS AND A BRIEFING FROM THE REGULAR FLIGHT CREW OF THE AIRCRAFT. THE MTF IS RECOMMENDED TO ASSESS THE AIRCRAFT PERFORMANCE AND IDENTIFY DEFICIENCIES THAT SHOULD BE CORRECTED WHILE THE AIRCRAFT IS UNDERGOING PHASED INSPECTION.

PHASE No. _____		Area Name and No. GENERAL		Aircraft Serial No.	Date
Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Prior to inspection, check aircraft forms and records for deficiencies (use Table 1-2 for reference to aircraft forms and records).				
ALL	2. Clean engine in accordance with TM 55-2840-229-23.				
ALL	3. Clean aircraft in accordance with the latest issue of the aircraft AVUM and AVIM maintenance manuals.				
	4. Deleted.				
ALL	5. Aircraft without ODDS, check all electrical chip detectors (except engine) for metal accumulation, clean, perform functional check and reinstall. Refer to TM 55-2840-229-23 for engine chip detector check.				

"FOD REMINDER"

Check work area for tools and parts after completion on maintenance and inspection.

Phase No. _____	Area Name and No. GENERAL (CONT)	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
3,6	6. Defuel aircraft in accordance with TM 55-1520-210-23 prior to removal of floor panels.				
1,2, 4,5	7. Fuel tanks shall be fully serviced prior to start of phased inspections. If maintenance is to be accomplished which required defueling, this item may be deferred until after such maintenance is completed.				
ALL C	8. Perform avionics inspections, check and test electrical equipment as required in applicable avionics publications. Any faults discovered during the inspections shall be entered on DA Form 2408-13-1/2408-13-1-E.				
ALL	9. Perform armament system inspection checks and test as required in applicable armament publications. Any faults discovered during the inspections shall be entered on DA Form 2408-13-1/2408-13-1-E.				
ALL C	10. Perform engine exhaust gas temperature functional test in accordance with applicable manuals. Any faults discovered during the inspections shall be entered on DA Form 2408-13-1/2408-13-1-E.				

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

PHASE NO._____	Area Name and No. AIRCRAFT EXTERIOR - 1	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
	NOTE *This page intentionally left blank.*				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. NOSE AREA - 2	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
2,4,6	2. Wiper blade arms for condition, security and proper adjustment.				
3 & 6	Remove windshield wiper motor and converter assy, disassemble, clean, inspect and service converter.				

"FOD REMINDER"

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

Phase No. _____	Area Name and No. FORWARD RADIO/BATTERY COMPARTMENT - 3	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Electrical wiring in nose compartment and behind instrument panel for chafing, deterioration of insulation and connector seals, and security of connections.				
ALL	2. Electrical equipment shock mounts for deterioration, free throw, bottoming and security. Grounding straps or bands for damage and security of connections.				
ALL	3. Heat/defog ducts and valve for damage and security.				
ALL	4. Lines and hoses behind instrument panel for loose connections and chafing.				

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

PHASE NO._____	Area Name and No. COCKPIT INTERIOR - 4	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Crew door jettison mechanism functionally check with doors closed. Hinge pins for wear, corrosion and distortion.				
ALL	2. Release cables for chafing, damage, security and adequate lubrication.				
ALL	3. Door jettison handles properly wired with copper safety wire.				
ALL	4. Seat adjustment mechanisms for wear, positive movement, locking and lubrication.				
3,6	5. Inspect seats for positive recline movement.				

"FOD REMINDER"

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

Phase No. _____	Area Name and No. COCKPIT INTERIOR — 4 (CONT)	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
3,6	6. Cockpit structure for damage, cracks and corrosion (plates, panels and doors opened for access). (Access panels 70, 71, and 76, Fig 1-4).				
ALL	7. Electrical wiring for chafing, deterioration and security (pedestal console).				
ALL	8. Check circuit breakers, switches and knobs for security and proper operation.				

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

PHASE NO._____	Area Name and No. CABIN INTERIOR - 5	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
3,6	1. Cabin floor panels for cracks, dents, delamination and security. Check that aircraft has been defueled (TM 55-1520-210-23-1) prior to removal of floor panels over the fuel cells and inspect for corrosion. (All floor Access Panels, Fig 1-4.)				
3,6	2. Cabin structure for damage, cracks and corrosion (soundproofing removed and plates, panels, and doors opened for access). (All Access Panels, Fig 1-4).				
3,6	3. Cargo door window jettison mechanisms functionally checked.				
ALL	4. Inspect cargo door retainers for cracks, worn or bent.				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. UNDER FLOOR OF COCKPIT/CABIN - 6	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Fuselage structure for damage, cracks and corrosion (floor panels removed for access). (Access Panels 72 and 73, Fig 1-4.)				
ALL	2. Area under floor for evidence of moisture accumulation. Drain holes for clogged condition. (Access Panels 72 and 73, Fig 1-4.)				
3,6 C	3. Collective friction liners for wear. (Access Panel 76, Fig 1-4.)				
ALL C	4. Flight control linkages, including pushpull tubes, links, bellcranks, idlers, levers, arms, jackshafts, force gradients, etc., for corrosion, damage and security. (Access Panels 70, 71, 72 and 73, Fig 1-4.)				
ALL C	5. Bearings, bushings and rod end in flight control linkages for excessive play and security. (Access Panels 70, 71, 72 and 73, Fig 1-4.)				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. UNDER FLOOR OF COCKPIT/CABIN - 6 (CONT)	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	6. Power control linkage for damage, wear, security and lubrication. (Access Panels 70, 71, 72 and 76, Fig 1-4.)				
ALL	7. Electrical wiring for chafing, deterioration and security. (Access Panels 71, 72 and 73, Fig 1-4.)				
3,6	8. Heater ducts for security and damage. (Access Panel 72, Fig 1-4.)				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. LOWER PYLON AREA (VIA CABIN INTERIOR) - 7	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Transmission mount boots for cuts, tears and deterioration. (Access Panels 3, 23 and 24, Fig 1-4).				
2,4,6 C	2. inspect resilient pylon mounts (5 each) for deterioration, cleanliness and security. (Access Panels 3, 23 and 24, Fig 1-4.)				
ALL	3. Friction dampers (2 each) for damage and security. (Access Panels, 23 and 24, Fig 1-4.)				
ALL	4. Pylon mount structural supports (4 places) and fifth mount support fitting (1 each) visually for cracks and corrosion. (Access Panels 23 and 24, Fig 1-4.)				
ALL	5. Lift link for corrosion, damage and security. (Access Panel 24, Fig 1-4.)				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. LOWER PYLON AREA (VIA CABIN INTERIOR) - 7 (CONT)	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
2,4,6 C	6. Inspect lift link. Inspect bearings and attach points for wear, cracks and tolerance. (Access Panel 24, Fig 1-4.)				
ALL C	7. **Lift beam visually for cracks. (Access Panels 24 and 79, Fig 1-4 and Hell Hole.)**				
ALL C	8. **Power turbine governor controls for damage, wear and security. (Access Panels 23 and 24, Fig 1-4.)**				
3,6 C	9. Hydraulic filter element (either paper or metal) replaced. (Access Panel 79, Fig 1-4.)				
ALL	10. Electrical wiring for chafing, deterioration of insulation and connector seals and security of connections (Hell Hole).				

"FOD REMINDER"

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

Phase No. _____	Area Name and No. LOWER PYLON AREA (VIA CABIN INTERIOR) — 7 (CONT)	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
6	11. Remove and replace droop compensator shear pin. (Access panel 24, Fig 1-4).				
ALL C	12. All fuel supply lines for chafing, damage and leaks. Self-sealing lines for activation (e.g., swelling, blistered areas that appear to be soaked with fuel or have fuel between fabric plies). (Access panel 23, Fig 1-4).				

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

Phase No. _____	Area Name and No. UPPER PYLON (VIA CABIN ROOF) — 8	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Hydraulic reservoir, filler cap and strainer for condition. (Access panel 2, Fig 1-4).				
ALL C	2. Generator/alternator drive quill magnetic plug removed and visually checked for contaminants. Check vent on generator quill case for clogging. (Access panels 2 and 3, Fig 1-4).				
ALL	3. Generator/alternator electrical connections for security. (Access panel 2, Fig 1-4).				
1,3,5	4. Generator.				
ALL	5. Alternator.				

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

Phase No. _____	Area Name and No. UPPER PYLON (VIA CABIN ROOF) — 8 (CONT)	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	6. Perform spring scale check on collective and cyclic hydraulic actuator support mount bearings P/N 204-076-168-1 (not required on cylinder assembly P/N 205-076-099).				
ALL	7. Transmission housings, fittings, and oil manifold for chafing damage and leaks. Check vent on top of transmission case for clogging. (Access panel 2, Fig 1-4).				
ALL C	8. Visually inspect the Kamatics Main Drive Shaft.				
6	9. Deleted.				

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

PHASE NO._____	Area Name and No. MAIN ROTOR AND MAST AREA - 9	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	1. Break torque on stabilizer bar support mount bolts (8 each) and torque to specifications.				
ALL C	2. Check for excessive play in trunnion bearings, collective lever bearings, and for excessive play between collective sleeve drive plate and mast.				
ALL C	3. Scissors and sleeve assembly for visible damage and security. Bearings and bushings for excessive play.				
ALL C	4. Disconnect scissors drive links from trunnions and check swashplate bearing for roughness, binding and vertical play.				
ALL C	5. Hub spring assembly for security, condition, deformation, and cracks in rubber bumbers.				

"FOD REMINDER"

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

Phase No. _____	Area Name and No. MAIN ROTOR AND MAST AREA — 9	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	6. Visually inspect composite main rotor blades for evidence of debonding of the leading edge abrasion strip, trim tab, and taco patch. Inspect tie down plate and aft root weights for security. Inspect leading and trailing edge for dents and nicks.				
ALL C	7. Inspect metal main rotor blades.				
4	8. Remove tip cap, check stud retention nuts for looseness. Check studs for looseness or distortion.				

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

PHASE NO._____	Area Name and No. ENGINE AIR INDUCTION AREA - 10	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	1. Air induction baffle assembly for chafing, cracks, dents loose or missing fasteners and security. (Access Panel 4, Fig 1-4.)				
ALL C	2. Particle separator disassembled and inspected for clogging and damage. Gaskets and seals for cuts deterioration and separation from backing plates. (Access Panel 4, Fig 1-4).				
ALL C	3. Air cleaner (self-purging particle separator) removed, cleaned and inspected for damage. (Access Panel 4, Fig 1)4.)				
3,6	4. Electrical wiring for chafing deterioration of insulation and connector seals, and security of connections. (Access Panel 4, Fig 1-4.)				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. ENGINE AIR INDUCTION AREA - 10 (CONT)	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
	CAUTION **To perform the next inspection requirement, the engine variable inlet guide vanes must be positioned to the full open position. To preclude damage/distortion to VIGV components, release torques on "B" nuts to CYL 1 and CYL 2 lines at actuator.**				
ALL C	5. Engine air inlet housing, variable inlet guide vanes and first stage compressor blades for foreign object damage, erosion, dirt varnish deposits and oil streaks. (Access Panel 4, Fig 1-4).				
ALL C	6. Top air filter for visible damage, cleanness, condition and security of seals around edges. (Access Panel 4, Fig 1-4.)				
ALL C	7. Right air filter for visible damage cleanness, condition and security of seals around edges. (Access Panel 4, Fig 1-4.)				

"FOD REMINDER"

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

Phase No. _____	Area Name and No. ENGINE AIR INDUCTION AREA - 10 (CONT)	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	8. Left air filter for visible damage, cleanness, condition and security of seals around edges (Access Panel 4, Fig. 1-4).				
ALL C	9. IMPROVED PARTICLE SEPARATOR				

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

Phase No. _____	Area Name and No. ENGINE COMPARTMENT — 11	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	1. Engine airbleed actuator strainer for condition and cleanliness. Bleed band assembly for bends, cracks and security. (Access panels 6 and 7, Fig 1-4).				
1,3,5	2. Starter-generator.				
ALL C	3. Fuel control inlet strainer inspect and clean. (Access panel 7, Fig 1-4).				
ALL C	4. Inspect and clean fuel control servo strainer and replace filter. (Access panel 7, fig 1-4).				
	5. Deleted				

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

PHASE NO._____	Area Name and No. ENGINE COMPARTMENT - 11 (CONT)	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	6. Fuel system lines and hoses for chafing, leaks and security. Braided hoses for frayed or broken wires. (Access Panesl 6 and 7, Fig 1-4.)				
ALL C	7. Main fuel filter micronic paper element inspected and replaced. Clean if metal screen type. (Access Panel 7, Fig 1-4.)				
ALL C	8. Quick disconnect and breakaway type valve (1 each) outlet of main fuel strainer (crashworthy only) for leakage, security and cracks in breakable (necked) section and play in breakaway pins in outer sleeve staked area. (Access Panel 7, Fig 1-4.)				
ALL C	9. Breakaway type valve (1 each) on inlet of main fuel strainer (crashworthy only) for security, leakage and cracks in breakable (necked) section and play in breakaway pins in outer sleeve staked area. (Access Panel 7, Fig 1-4.)				
ALL C	10. Breakaway type valve (1 each) on engine oil tank inlet from engine breather hose (crashworthy only) for security, leakage and cracks in breakable (necked) section and play in breakaway pins in outer sleeve staked area. (Access Panel 7, Fig 1-4.)				

"FOD REMINDER"

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

Phase No. _____	Area Name and No. ENGINE COMPARTMENT — 11 (CONT)	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	10.A. Self-sealing oil system component hoses for activation (e.g., swelling, blistering, areas that appear to be soaked with oil).				
ALL C	11. Engine Oil Filter Inspect (TM 55-2840-229-23).				
ALL C	12. Breakaway type valve (1 each) at union of scavenge pump outlet hose and thermal bypass input line (crashworthy only) at engine deck for security, leakage, and cracks in breakable (necked) section and play in breakaway pins in outer sleeve area. (Access panels 7 and 53, Fig 1-4).				
ALL C	13. Breakaway type valve (1 each) on engine oil tank outlet to engine (crashworthy only) for leakage, security, and cracks in breakable (necked) section and play in breakaway pins in outer sleeve staked area.				
2,4,6	14. Engine mount rod ends for maximum allowable axial and radial play (Access Panel 7, Fig 1-4).				

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

PHASE NO. _____	Area Name and No. ENGINE COMPARTMENT -11 (Cont)	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
2,4,6,	15. Engine mount pillow block assemblies for wear and damage. Trunnion caps for damage and security. Trunnion bearings for wear and excessive axial and radial play (Access Panels 6 and 7, Fig. 1-4).				
2,4,6,	16. Engine work platform decks for bonding separation, cracks, punctures and corrosion (Access Panels 7 and 10, 19 and 22, Fig. 1-4).				
ALL	17. Inspect mono, biped, and tripod engine deck mounting pads and attaching hardware for; looseness and security. If looseness is evident, check bolts and holes for damage.				
ALL	18. Engine deck drain holes and channels for obstruction.				
ALL	18.1 Inspect Break-Away Coupling (90-degree and straight halves) at the ODDS Lubriclone Filter. Check wear on the Break-Away Pins.				

"FOD REMINDER"

Check work area fr 's and parts after completion on maintenance and inspection.

Phase No. _____	Area Name and No. ENGINE COMPARTMENT — 11 (CONT)	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	19. Power turbine governor control tube, levers, rod ends and attach points for wear, security, and corrosion.				
ALL	20. Droop compensator for proper attachment, lube, and corrosion.				
ALL	21. Linear actuator for security, electrical connections, wear and proper operation.				

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

Phase No. _____	Area Name and No. CABIN ROOF — 12	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
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"FOD REMINDER"
Check work area for tools and part after completion of maintenance and inspection.

PHASE NO. _____		Area Name and No. CABIN EXT SIDES, BOTTOM, & LANDING GEAR - 13 (CONT)		Aircraft Serial No.	Date
Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
3,6	5. Landing gear crosstubes for exxcessive spread. (Check measurements).				
ALL C	6. Fuel boost pumps (electrical and air drive) visually for leaks, damage and security. (access panel 81, Fig 1-4)				
ALL C	7. Retention cap assemblies and bearing Support fittings at crosstube to fuselage, attach points for deterioration, wear an d security.				
3,6	8. External stores support assembly beams when installed, for fatigue cracks within 6 inches of upper fuselage attach points. Use non-destructive (TM 55-1500-335-23 method).				
ALL C	9. Landing gear skid shoes for wear, damage and security.				
ALL C	10. Landing gear skid tubes (skid shoes removed), saddles, steps, tow rings, end caps and ground handling wheel attach lugs for cracks, damage and security.				

"**FOD REMINDER"**

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

PHASE NO. _____		Area Name and No. UNDER CABIN PYLON (HELL HOLE)-14		Aircraft Serial No.	Date
Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	1. Fuel system components and associated lines and hoses for chafing, damage, leaks and security. (Access panels 48, 50, 52, 57 and 59, Fig. 1-4.)				
ALL C	2. Self-sealing fuel system component lines and hoses for activation (e.g., swelling, blistering, areas that appear to be soaked with fuel or have fuel between fabric plies). (Hell Hole)				
ALL C	3. Fuel supply and particle separator discharge lines and highest protruding attaching hardware in the area of transmission sump and tail rotor shaft for 0.5 inch clearance with sump. (Hell Hole)				
ALL C	4. Transmission oil lines and hoses for chafing, damage and leaks. Transmission oil line quick disconnects for excessive play.				
ALL C	5. Transmission lower housing and fittings for chafing, damage and leaks. (Hell Hole)				

"FOD REMINDER"

Check work area for tools and parts after completion on maintenance and inspection.

Phase No. _____	Area Name and No. UNDER CABIN PYLON (HELL HOLE) — 14 (CONT)	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
	6. Deleted				
ALL C	7. Transmission external oil filter element replaced. (Hell Hole). (Aircraft Without ODDS).				
ALL C	7.1 Inspect transmission debris monitor, aircraft with ODDS.				
ALL C	8. Bearings, bushings and rod ends in flight control linkages for excessive play and security. (Hell Hole).				
ALL C	9. Flight control linkages including push-pull tubes, bellcranks, idlers, support assemblies, etc., for corrosion, damage and security. (Hell Hole).				
2.4.6 C	10. Throttle control linkage for damage, wear and security. (Hell Hole).				

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

PHASE NO._____	Area Name and No. UNDER CABIN PYLON (HELL HOLE) - 14 (CONT)	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
2,4,6	11. Electrical wiring for chafing deterioration of insulation and connector seals, and security of connections. (Hell Hole)				
2,4,6 C	12. Cargo suspension assembly for damage and security. (Hell Hole)				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. MID-FUSELAGE UNDER ENG DECK - 15	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Fuselage structure behind cabin and below engine deck for damage, cracks and corrosion. (Access panel 53, Fig. 1-4).				
ALL C	2. Throttle control linkage for damage, wear and security. (Access panel 53, Fig. 1-4).				
ALL	3. Electrical wiring for chafing, deterioration of insulation and connector seals, and security of connections. (Access panel 53, Fig. 1-4).				
2,4,6 C	4. Engine idle solenoid for operation, freedom of plunger, corrosion and security. Check for proper clearance.				
ALL C	5. Bleed air lines for condition and security. (Access panel 53, Fig. 1-4).				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. MID-FUSELAGE UNDER ENG DECK - 15 (CONT)	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
	Deleted.				
ALL C	7. Fuel system lines and hoses for chafing, leaks and security. Braided hoses for frayed or broken wires. (Access panel 53, Fig.1-4).				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. ELECTRONIC/COMM COMPARTMENT - 16	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
3,6	1. Fuselage structure for damage, cracks and corrosion. (Access panels 19, 21 and 22, Fig. 1-4).				
	Deleted.				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. ENGINE AREA EXTERIOR - 17	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	1. Engine exhaust tailpipe for cracks, dents, and burned or buckled areas. (Access panel 8, Fig. 1-4).				
ALL	2. Heat exchanger for muff heater, remove and inspect for cracks. (Access panels 8 and 10, Figure 1-4).				

"FOD REMINDER"

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

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PHASE NO._____	Area Name and No. TAILBOOM INTERIOR - 18	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	1. Tailboom structure, including longerons for corrosion, cracks and damage. (Access panels 16; 17, 18 and 36, Fig.1-4).				
ALL C	2. Synchronized elevator supports (4 each) for corrosion and damage. (Access panel 17, Fig. 1-4).				
ALL C	3. Synchronized elevator control linkage for damage, binding, corrosion, and loose, missing or improperly installed hardware. (Access panels 17, 18 and 36, Fig.1-4).				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. TAILBOOM INTERIOR - 18 (CONT)	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	4. Synchronized elevator horn assembly for corrosion, damage and proper drag with elevators removed.				
ALL C	4.1. Synchronized elevators for cracks in closing (inboard) rib with elevators removed.				
ALL C	5. Bearings, bushings and rod ends in flight control linkages for excessive play and security. (Access panels 17, 18 and 36, Fig. 1-4).				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. TAILBOOM INTERIOR - 18 (CONT)	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	6. Flight control linkages including push-pull tubes, links, bellcranks, idlers, quadrant, etc. for corrosion, damage and security. (Access panels 17, 18 and 36, Fig.1-4).				
ALL C	7. Tail rotor control cables for chafing, broken wires and security. (Access panels 13, 14, 16, 17 and 18, Fig.1-4).				
ALL C	8. Tail rotor control cables for specified tension. (Access panel 17, Fig.1-4).				
ALL C	9. Control cable pulleys for wear and damage. (Access panel 16, Fig.1-4).				
ALL	10. Electrical wiring for chafing, deterioration and connector seals, and security of connections. (Access panels 14 thru 18, 36 and 83, Fig.1-4).				

"FOD REMINDER"

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

Phase No. _____	Area Name and No. TAIL ROTOR DRIVE TRAIN — 19	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	1. Intermediate (42°) gearbox oil drained, sight gage for damage or stained glass, and refilled. (Access panel 13, Fig 1-4).				
ALL C	2. Intermediate (42°) gearbox breather vent for clogged condition. Gearbox and support fitting for cracks, condition and security. (Access panel 13, Fig 1-4).				
ALL C	3. Tail rotor control aft cables for chafing, broken wires and security. (Access panels 13 and 14, Fig 1-4).				
ALL C	4. Control cable pulleys for wear and damage. (Access panels 13 and 14, Fig 1-4).				
ALL C	5. Tail rotor driveshaft hanger bearings. Inspect IAW TM 55-1520-210-23. (Inspection may be signed off if special inspection was performed within 25 hours of current phase inspection).				

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

Phase No. _____	Area Name and No. T/R AND GEARBOX — 20	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	1. Vertical fin rib (P/N 204-030-827-27) along rivet row at fin station 10.08 for cracks (access thru topmost lightning holes). (Access panel 14, Fig. 1-4).				
ALL C	2. Tail rotor (90°) gearbox oil drained sight gage for damage or stained glass, and refilled.				
ALL C	3. Tail rotor (90°) gearbox filler cap for clogged vent.				
ALL C	4. Deleted.				
ALL C	5. Tail rotor control roller chain and sprocket for damage and security. (Access panels 14 and 29, Fig. 1-4).				

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

Phase No. _____	Area Name and No. T/R AND GEARBOX - 20 (CONT)	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	6. Slowly operate tail rotor control pedals and observe roller chain operation to ensure no binding or climbing on the sprocket occurs (Access Panel 29, Fig. 1-4).				
ALL C	7. Remove tail rotor control tube. Check for excessive grease on tube. Splines and threads for wear. Threads for brass metal particles (Access Panel 29, Fig. 1-4).				
ALL	8. Tail rotor control quill for nicks, corrosion, leakage and security (Access Panel 29, Fig. 1-4).				
ALL C	9. Tail rotor control quill for wear on splines which engage quill housing and on thread which engages control nut (pitch control assembly removed from gearbox) (Access Panel 29, Fig. 1-4).				
3,6 C	10. Tail rotor (90°) gearbox support fitting (casting) for security and evidence of chafing by vertical fin door.				

"FOD REMINDER"

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

Phase No. _____	Area Name and No. T/R AND GEARBOX - 20 (CONT)	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL	11. Tail rotor assembly balanced.				

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

PHASE NO._____	Area Name and No. OIL COOLER/AFT BATY COMPARTMENT - 21	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
3,6	1. Remove oil cooler screens and clean fan blades and assembly. Check fan blades for cracks. (Access panel 36, Fig. 1-4).				
ALL C	2. Check oil coolers for obstructions. Check turbine for rough or binding bearings by turning turbine by hand.				
ALL C	3. Flight control linkages, including push-pull tubes, links, bellcranks, bearings, bushings and rod ends for excessive play, corrosion, damage and security.				
ALL	4. Electrical wiring for chafing, deterioration of insulation and connections.				
6	5. Remove structural tube. Check tube and end fittings for loose rivets, cracks, corrosion and elongation of holes.				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. HEATER COMPARTMENT - 22	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
3,6	1. Fuselage structure for damage, cracks and corrosion. (Access panels 34 and 35, Fig.1-4).				
	2. **Deleted.**				
	DELETE				
	Deleted.				
6	5. Combustion heater ignitor plug for condition and security. (Access panels 34 and 35, Fig.1-4).				

"FOD REMINDER"

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

PHASE NO._____	Area Name and No. HEATER COMPARTMENT - 22 (CONT)	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
6	6. Combustion heater radiator and jacket assembly for condition and security. (Access panels 34 and 35, Fig.1-4)				
3,6	7. Muff heater overheat switch for loose connector pins, corrosion and damage.				

"FOD REMINDER"

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

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PHASE NO._____	Area Name and No. LUBRICATION	Aircraft Serial No.	Date

Inspect Phase No's	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	1. Lubricate in accordance with lubrication chart contained in the maintenance manual.				

"FOD REMINDER"

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

PHASE NO. _____		Area Name and No. POWER ON CHECKS		Aircraft Serial No.	Date
Inspect Phase No's	**Inspection Requirements**	**Status**	**Faults and/or Remarks**	**Action Taken**	**Initial**
ALL C	1. Cyclic and collective cylinders and connecting hydraulic lines for leaks.				
ALL C	2. Fuel lines for leaks during engine operation.				
ALL C	3. Tail rotor balanced, if not previously accomplished in Area 20.				
3,6 C	4. Perform functional test on bleed air heater/muff heater system.				
ALL C	5. Functional test windshield wiper motor and converter assembly.				

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

Phase No. ________	Area Name and No. POWER ON CHECKS (CONT)			Aircraft Serial No.		Date
Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial	
3, 6 C	6. Perform inspection on fuel quantity indicator and 20 minute fuel caution light for correct readings.					

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

Phase No. _____	Area Name and No. FINAL INSPECTION REQUIREMENTS	Aircraft Serial No.	Date

Inspect Phase No.	Inspection Requirements	Status	Faults and/or Remarks	Action Taken	Initial
ALL C	1. Verify that all entries are completed in accordance with Table 1-2 and initiate DA Forms 2408-13/14 as appropriate.				
ALL C	2. Perform maintenance operational checks (MOC), as required in accordance with the requirements of TM 1-1500-328-23.				
ALL C	2.1 Perform a daily inspection in accordance with TM 55-1520-210-PMD.				
ALL C	3. Release aircraft from inspection status to permit accomplishment of post inspection maintenance test flight (MTF) in accordance with requirements of TM 55-1520-242-MTF and TM 1-1500-328-23.				

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

By Order of the Secretary of the Army:

E. C. MEYER
General, United State Army
Chief of Staff

Official:

ROBERT M. JOYCE
Major General, United States Army
The Adjutant General

DISTRIBUTION:
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To: <ls-lp@redstone.army.mil>
Subject: DA Form 2028

1. ***From:*** Joe Smith
2. *Unit:* home
3. ***Address:*** 4300 Park
4. ***City:*** Hometown
5. ***St:*** MO
6. ***Zip:*** 77777
7. ***Date Sent:*** 19-OCT-93
8. ***Pub no:*** 55-2840-229-23
9. ***Pub Title:*** TM
10. ***Publication Date:*** 04-JUL-85
11. *Change Number:* 7
12. *Submitter Rank:* MSG
13. ***Submitter F Name:*** Joe
14. *Submitter MI Name:* T
15. ***Submitter L Name:*** Smith
16. ***Submitter Phone:*** 123-123-1234
17. ***Problem:*** **1**
18. *Page:* 2
19. *Paragraph:* 3
20. *Line:* 4
21. *NSN:* 5
22. *Reference:* 6
23. *Figure:* 7
24. *Table:* 8
25. *Item:* 9
26. *Total:* 123
27. ***Text:*** This is the text for the problem below line 27.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

THEN . .JOT DOWN THE DOPE ABOUT IT ON THIS FORM, CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL!

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)
PFC John DOE
CO A 3rd Engineer Bn
Ft. Leonardwood, MO 63108

DATE SENT
22 August 1992

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 55-1520-210-PM	15 May 1996	Phased Maintenance Checklist, UH-1H/V and EH-1H/X Aircraft

BE EXACT PIN–POINT WHERE IT IS

PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO
6	2-1 a		
B1		4-3	

IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

In line 6 of paragraph 2-1a the manual states the engine has 6 cylinders. The engine on my set only has 4 cylinders. Change the manual to show 4 cylinders.

Callout 16 on figure 4-3 is pointed at a bolt. In key to figure 4-3, item 16 is calle a shim. Please correct one or the other

EXAMPLE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER
JOHN DOE, PFC (268) 317-7111

SIGN HERE
JOHN DOE John Doe

DA FORM 1 JUL 79 2028–2

PREVIOUS EDITIONS ARE OBSOLETE.

DRSTS-M verprint2, 1 Nov 80

P.S.- - IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION, MAKE A CARBON COPY OF THIS AND GIVE TO YOUR HEADQUARTERS.

REVERSE OF DA FORM 2028-2

TEAR ALONG PERFORATED LINE

FILL IN YOUR UNITS ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

OFFICIAL BUSINESS

Commander
USAAMCOM
ATTN: AMSAM-MMC-LS-LP
Redstone Arsenal, AL 35898-5230

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PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE

BE EXACT PIN–POINT WHERE IT IS

PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO

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The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
1 decimeter = 10 centimeters = 3.94 inches
1 meter = 10 decimeters = 39.37 inches
1 dekameter = 10 meters = 32.8 feet
1 hectometer = 10 dekameters = 328.08 feet
1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
1 decigram = 10 centigrams = 1.54 grains
1 gram = 10 decigram = .035 ounce
1 dekagram = 10 grams = .35 ounce
1 hectogram = 10 dekagrams = 3.52 ounces
1 kilogram = 10 hectograms = 2.2 pounds
1 quintal = 100 kilograms = 220.46 pounds
1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
1 deciliter = 10 centiliters = 3.38 fl. ounces
1 liter = 10 deciliters = 33.81 fl. ounces
1 dekaliter = 10 liters = 2.64 gallons
1 hectoliter = 10 dekaliters = 26.42 gallons
1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	*To*	*Multiply by*	*To change*	*To*	*Multiply by*
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29,573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C