

TECHNICAL MANUAL

**AVIATION UNIT AND
INTERMEDIATE MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS)
FOR
HELICOPTER, ATTACK**

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1520-01-192-2478	AH-1E (ECAS)
1520-01-168-4260	AH-1F (MC)

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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Section I. INTRODUCTION

1. Scope. This manual lists repair parts; special tools; test, measurement, and diagnostic equipment (TMDE); and other support equipment required for operation and performance of Aviation Unit Maintenance (AVUM), Aviation Intermediate Maintenance (AVIM), and Depot Maintenance of the Helicopter, Attack, AH-1P, AH-1E, AH-1F. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

2. General. This Repair Parts and Special Tools List is divided into the following sections:

a. Section II - Repair Parts Lists. A list of repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. This section is arranged by functional group, usually in disassembly order, and listed in figure and item sequence. Items are indented when required to indicate the relationship to the next higher assembly. The illustrations in this section will appear immediately preceding each figure of text. Items which are not assigned SMR codes appear for informational purposes only and are not to be requisitioned.

b. Section III - Special Tools List. A list of special tools, TMDE, and support equipment authorized for the performance of maintenance. This section, which is arranged in figure and item number sequence contains Airframe Tools (figure numbers prefixed A), Flyaway Items (figure numbers prefixed F), and Ground Support Items (figure numbers prefixed G). The illustrations will appear immediately following the text portion of each group.

c. Section IV - National Stock Number and Part Number Index. A list, in ascending National Item Identification Number (NIIN) sequence, of all national stock numbers appearing in the listings, followed by a list, in alphameric sequence, of all part numbers appearing in the listings. National stock number and part numbers are cross-referenced to each illustration figure and item number appearance.

3. Explanation of Columns. The following provides an explanation of columns found in the tabular listings:

a. Item Number. The number used to identify each item called out in the illustration.

b. Source, Maintenance, and Recoverability Codes (SMR).

(1) Source Code. The Source codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR code format as follows:

Code	Definition
PA	Item procured and stocked for anticipated or known usage.
PB	Item procured and stocked for insurance purposes because essentiality dictates that a minimum quantity be available in the supply systems.

Code	Definition
PC	Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.
PD	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.
PE	Support equipment procured and stocked for initial issue or outfitting to specific maintenance repair activities.
PF	Support equipment which will not be stocked but which will be centrally procured on demand.
PG	Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later time.
KD	An item of a depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul or repair.
KF	An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at Aviation Unit Maintenance (AVUM) or Aviation Intermediate Maintenance (AVIM) levels.
KB	Item included in both a depot overhaul/repair kit and a maintenance kit.
MO	Item to be manufactured or fabricated at Aviation Unit Maintenance (AVUM) level .
MF	Item to be manufactured or fabricated at Aviation Intermediate Maintenance (AVIM) level.
MD	Item to be manufactured or fabricated at the Depot Maintenance level.
AO	Item to be assembled at Aviation Unit Maintenance (AVUM) level.
AF	Item to be assembled at Aviation Intermediate (AVIM) level.
AD	Item to be assembled at Depot Maintenance level.
XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB	Item is not procured or stocked. If not available through salvage, requisition.
xc	Installation drawing, diagram, instruction sheet, field source drawing, that is identified by manufacturer's part number.
XD	A support item that is not stocked. When required, item will be procured through normal supply channels.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XA, XC, or XD, and airframe support items as restricted by AR 700-42.

(2) Maintenance Code. Maintenance codes are assigned to indicate the levels of maintenance authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code	Application/Explanation
0	Support item is removed, replaced, used at the Aviation Unit Maintenance (AVUM) level.
F	Support item is removed, replaced, used at the Aviation Intermediate Maintenance (AVIM) level.
D	Support items that are removed, replaced, used at Depot, mobile depot, specialized repair activity only.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code	Application/Explanation
0	The lowest maintenance level capable of complete repair of the support item is the Aviation Unit Maintenance (AVUM) level.
F	The lowest maintenance level capable of complete repair of the support item is the Aviation Intermediate Maintenance (AVIM) level.
D	The lowest maintenance level capable of complete repair of the support item is the Depot level, performed by depot, mobile depot, or specialized repair activity.
L	Repair restricted to designated specialized repair activity.
Z	Nonreparable. No repair is authorized.
B	No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the maintenance of this item.

(3) Recoverability Code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR code format as follows:

Code	Definition
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
0	Reparable item. When uneconomically reparable, condemn and dispose at Aviation Unit Maintenance (AVUM) level.
F	Reparable item. When uneconomically reparable, condemn and dispose at Aviation Intermediate Maintenance (AVIM) level.
D	Reparable item. When beyond lower level repair capability, return to Depot. Condemnation and disposal not authorized below depot level.
L	Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.
A	Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

NOTE

When a stock numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements, to identify an item or range of items.

e. Description. Indicates the Federal item name and any additional description required to identify the item. This column will also contain the Basis of Issue (BOI) for Special Tools, Ground Support, and Flyaway Equipment.

f. Quantity. Indicates the quantity of the item required for one assembly only, including instances when similar assemblies are broken down together. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable (e.g., shims, spacers, etc.). When parts are shown as attaching two or more items, the quantity of these parts are those necessary to attach only one of the items.

4. Explanation of Columns (Section IV).

a. National Stock Number (NSN) Index.

(1) Stock Number Column. This column lists the NSN by National Item Identification Number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN (i.e., 5305-^{NSN}01-674-1467). When using this column to locate an item, ignore the first 4 digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

(2) Figure Column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Section II and Section III.

(3) Item Column. The item number identifies the item associated with the figure listed in the adjacent figure column. This item is also identified by the NSN listed on the same line.

b. Part Number Index. Part numbers in this index are listed by part number in ascending alphanumeric sequence (i.e., vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, following by the numbers 0 through 9 and each following letter or digit in like order) .

(1) FSCM Column. The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(2) Part Number Column. Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of

(3) Stock Number Column. This column lists the NSN for the associated part number and manufacturer identified in the part number and FSCM columns to the left.

(4) Figure Column. This column lists the number of the figure where the item is identified/located in Section II and Section III.

(5) Item Column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

5. Special Information.

a. Usable On Code. The usable on code appears in the left-hand corner of the Description column heading. Usable on codes are shown as "UOC: ..." in the Description Column (justified left) on the first line applicable item description/nomenclature. Uncoded items are applicable to all models. Identification of the usable on codes used in the RPSTL are:

Code	Used On
A2S	AH-1P(PROD)
A3S	AH-1F(MC)
A4S	AH-1E(ECAS)
T1S	TAH-1S

b. Fabrication Instructions. Bulk materials required to manufacture items are listed in the Bulk Material Functional Group of this RPSTL. Part numbers for bulk materials are also referenced in the description column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for items source coded to be manufactured or fabricated are found in TM 55-1520-236-23.

Assembly Instructions. Detailed assembly instructions for items source code to be assembled from component spare/repair parts are found in TM 55-1520-236-23. Items that make up the assembly are listed immediately following the assembly item entry or reference is made to an applicable figure.

d. Kits. Line item entries for repair parts kits appear in a group in Section II (see table of contents).

e. Index Numbers. Items which have the word BULK in the figure column will have an index number shown in the item number column. This index number is a cross-reference between the National Stock Number/Part Number Index and the bulk material list in Section II.

Associated Publications. The publications listed below pertain to AH-IS (PROD), (ECAS), (MC) and its components:

Publication and Short Title

TM 11-1520-236-23 - Organizational Maintenance Manual: Electronic Equipment Configuration Army Model AH-1S (PROD) Helicopter

TM 11-1520-236-20P - Organizational Maintenance Repair Parts and Special Tools List: Installation Items for Electronic Equipment on AH-1S (PROD) Helicopter

TM 11-1520-236-34 - DS, GS, and Depot Maintenance Manual: Electronic Configuration Army Model AH-1S (PROD) Helicopter

TM 11-1520-236-34P - DS, GS, and Depot Maintenance Repair Parts and Special Tools Lists: Installation Items for Electronic Equipment on AH-1S (PROD) Helicopter

TM 55-1520-236-10 - Operator's Manual: Army Model AH-1S (PROD), (ECAS), (MC) Helicopter

TM 55-1520-236-23 - AVUM, AVIM Manual: Army Model AH-1S (PROD), (ECAS), (MC) Helicopter

TM 55-2840-247-23P - AVUM, AVIM Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools): Engine, Aircraft, Turbine (Lycoming T53-L-703)

6. How to Locate Repair Parts.

a. When National Stock Number or Part Number is Unknown:

(1) First. Using the table of contents, determine the assembly group within which the repair part belongs. This is necessary since illustrations are prepared for assembly groups, and listings are divided into the same groups.

(2) Second. Find the illustration covering the assembly group to which the repair part belongs.

(3) Third. Identify the repair part on the illustration and note the illustration figure and item number of the repair part.

(4) Fourth. Using the Repair Parts Listing, find the figure and item number noted on the illustration.

b. When National Stock Number or Part Number is Known:

(1) First. Using the National Stock Number and part Number Index, find the pertinent National stock number or part number. This index is in ascending National Item Identification Number (NIIN) sequence followed by a list of part number in ascending alpharneric squence, cross-referenced to the illustration figure number and item number.

(2) Second. After finding the figure and item number, locate the figure and item number in the repair parts list.

7. Abbreviations (Mnemonic Codes).

Abbreviation	Explanation
AN	Air Force-Navy
ANPT	Aeronautical national taper pipe thread
APLTO	Applicable to
AWG	American wire gage
BE	Bale
BKDN	Breakdown
BRKDOWN	Breakdown into
BT	Bottle
BTU	British thermal unit(s)
BX	Box
CC	Cubic centimeter(s)
CFM	Cubic feet per minute
CFS	Cubic feet per second
CI	Cubic inch
CM	Countermeasures
CN	Can
CNSWTH	Consolidated with
C/O	Consists of (component of)
CP	Candle power
CRES	Corrosion resistant steel
CW	Continuous wave(s)
DEG	Degree(s)
DR	Drum
FMC	Federal manufacturer's code
GL	Gallon
GPH	Gallons per hour
INTRCH	Interchangeable with
KC	Kilocycle(s)
KT	Kit
KW	Kilowatt(s)

Abbreviation	Explanation
LH	Left-hand
MIN	Minimum
MSUP	Maintenance supplies
MWO	Modification work order
NAS	National aircraft standard
NC	American national course thread
NEF	American ntional extra fine thread
NF	American national fine thread
NHA	Next higher assembly
NS	American national special thread
O/A	Over-all
OBS-AFT-CMPL-W	Obsolete after compliance with
OBS-BY	Obsolete by
OBSKTS	Obsoletes
OC	Piece
PG	Package
PK	Pack
PROM	Plus of minus
PT	Pint
RH	Right-hand
RMKS	Remarks
RO	Roll
RPL-BY	Replaced by
RPSL	Replaces
SE	Set
SF	Square foot
SI	Square inch
SL	spool
SPEC	Specification(s)
SX	Stick
TRNSTO	Transfer to
TU	Tube
U/O	Used on
USBL EFF	Usable effectivity
USE-AFT-CMPL-W	Usable after compliance with
U/W	Used with
W	Watt(s)
W	Wide, width
W/	With
WHEN EXHTD RQTN	When exhausted requisition next higher assembly
NHA	
W/O	Without

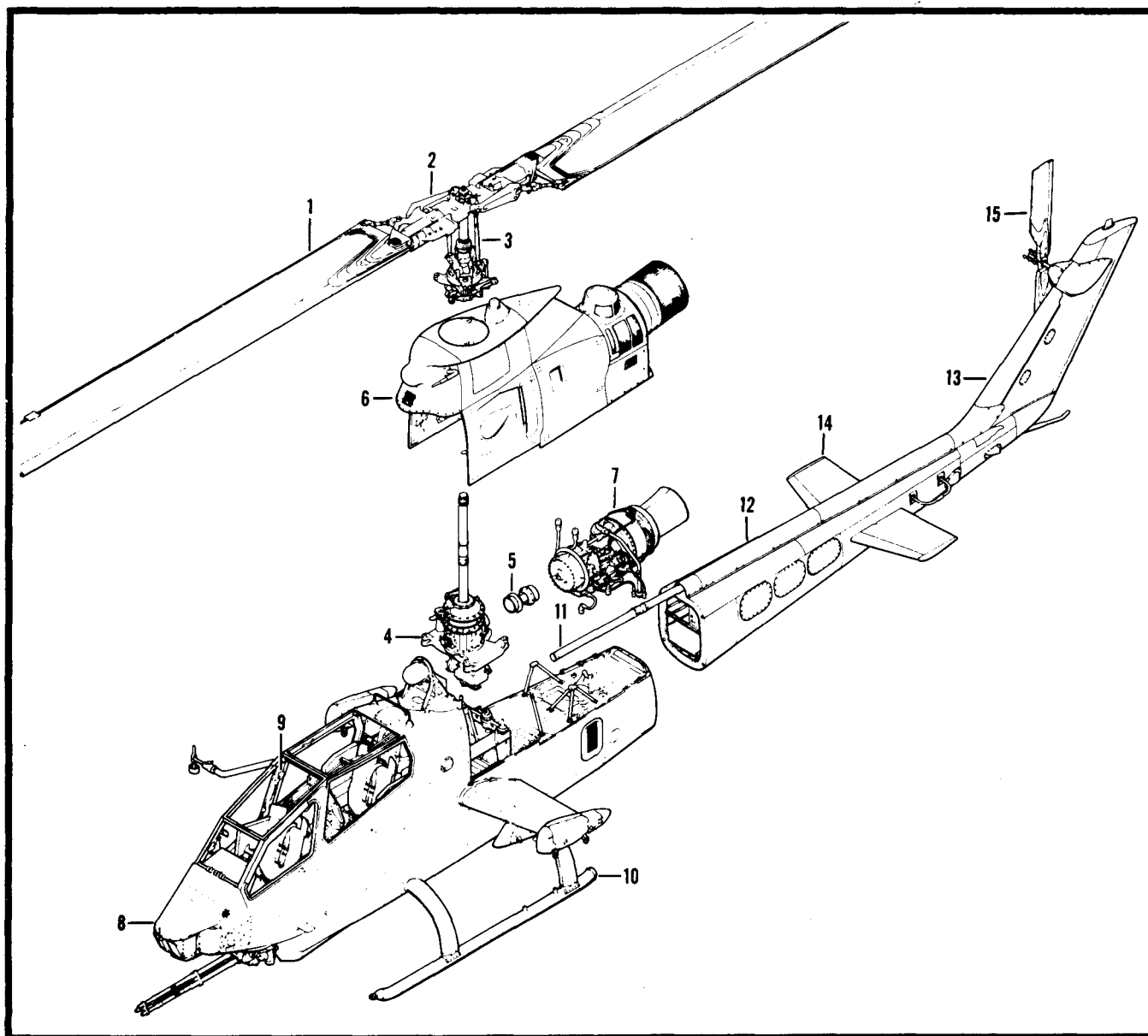


Figure 1. Exploded View of AH-1P/E/F Helicopter

Index No.	Figure Title	Figure No.
1	Blade Assembly, Main Rotor	64
2	Hub Assembly	65
3	Pylon Installation	62
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5	Driveshaft Assembly, Engine to Transmission.	86
6	Engine Cowl Installation	39
7	Engine Assembly	58
8	Fuselage Assembly	4
9	Canopy Removal System	170
10	Landing Gear	51
11	Driveshaft, Tail Rotor	87
12	Tailboom Installation	45
13	Fin Installation	46
14	Elevator Installation	141
15	Tail Rotor Installation	68

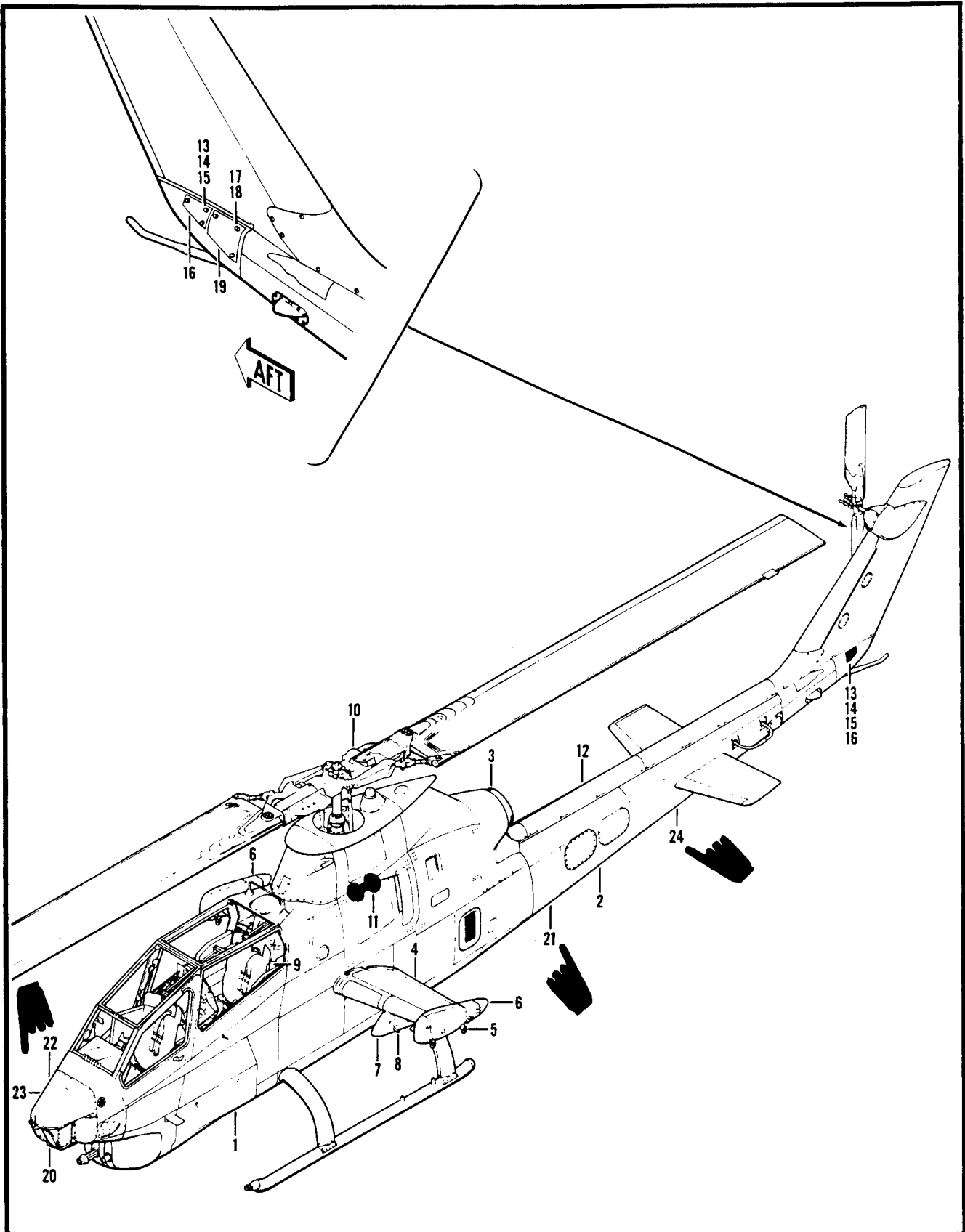


Figure 2. Helicopter Assembly

SECTION II (1) ITEM NO	II (2) SMR CODE	(3) FSCM	TM55-1520-236-23P (4) PART NUMBER	C5 (5) DESCRIPTION AND USABLE ON CODE (UOC)	SECTION II (6) QTY
				GROUP 02 AIRFRAME FIGURE 2. HELICOPTER ASSEMBLY	
	XCDZZ	97499	209-900-007-3	HELICOPTER ASSY USBL EFF 76-22567 THRU 76-22713 UOC A2S, T1S	1
	XCDZZ	97499	209-900-007-7	HELICOPTER ASSY USBL EFF 77-22729 THRU 77-22762 UOC A2S, T1S	1
	XCFZZ	97499	209-900-010-3	HELICOPTER ASSY USBL EFF 77-22763 THRU 78-23092 UOC A4S, T1S	1
	XCDZZ	97499	209-961-315-105	HELICOPTER ASSY,MOD USBL EFF 66-15248 THRU 71 -21052 UOC A3S, T1S	1
	XCDZZ	97499	209-900-016-3	HELICOPTER ASSY USBL EFF 78-23093 THRU 78-23125 UOC A3S, T1S	1
	XCDZZ	97499	209-900-016-103	HELICOPTER ASSY USBL EFF 79-23187 AND SUB UOC A3S, T1S	1
1	XCFZZ	97499	209-200-009-1	.FWD SECTION ASSY USBL EFF 76-22567 THRU 76-22713 SEE FIG.3 FOR BREAKDOWN UOC A2S, T1S	1
1	XCFZZ	97499	209-200-009-3	.FWD SECTION ASSY USBL EFF 77-22729 THRU 77-22762 SEE FIG.3 FOR BREAKDOWN UOC A2S, T1S	1
1	XCFZZ	97499	209-200-009-7	.FWD SECTION ASSY USBL EFF 78-23093 THRU 78-23125 SEE FIG.4 FOR BREAKDOWN UOC A3S, T1S	1
1	XCFZZ	97499	209-200-009-101	.FWD SECTION ASSY USBL EFF 79-23187 AND SUB SEE FIG.3 FOR BREAKDOWN UOC A3S, T1S	1
2	XCFZZ	97499	209-200-010-1	.AFT SECTION ASSY USBL EFF 76-22567 THRU 77-22762 SEE FIG.44 FOR BREAKDOWN UOC A2S, T1S	1
2	XCFZZ	97499	209-200-010-3	.AFT SECTION ASSY USBL EFF 77-23763 THRU 78-23092 SEE FIG.44 FOR BREAKDOWN UOC A4S, T1S	1
2	XCFZZ	97499	209-200-002-15	.AFT SECTION ASSY USBL EFF 66-15248 THRU 7121052 SEE FIG.44 FOR BREAKDOWN UOC A3S, T1S	1
2	XCFZZ	97499	209-200-010-5	.AFT SECTION ASSY USBL EFF 78-23093 AND SUB SEE FIG.44 FOR BREAKDOWN UOC A3S, T1S	1
3	XCOZZ	97499	209-060-007-1	.POWER PLANT INSTL SEE FIG.52 FOR BREAKDOWN UOC A2S, T1S	1
3	XCOZZ	97499	209-060-007-5	.POWER PLANT INSTL SEE FIG.52 FOR BREAKDOWN UOC A4S, T1S	1
3	XCOZZ	97499	209-060-001-19	.POWER PLANT INSTL USBL EFF 66-15248 THRU 71-21052 SEE FIG.52 FOR BREAKDOWN UOC A3S, T1S	1
3	XCOZZ	97499	209-060-007-101	.POWER PLANT INSTL USBL EFF 78-23093 THRU 78-23125 SEE FIG.52 FOR BREAKDOWN UOC A3S, T1S	1
3	XCOZZ	97499	209-060-007-105	.POWER PLANT INSTL USBL EFF 79-23187 THRU 79-23238 SEE FIG.52 FOR BREAKDOWN UOC A3S, T1S	1
3	XCOZZ	97499	209-060-007-107	.POWER PLANT INSTL USBL EFF 79-23239 AND SUB SEE FIG.52 FOR BREAKDOWN UOC A3S, T1S	1
4	XCFZZ	97499	209-020-003-9	.WING INSTL, LH USBL EFF 76-22567 THRU 76-22713 SEE	1