

TECHNICAL MANUAL

**AVIATION UNIT AND
INTERMEDIATE MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE REPAIR
PARTS AND SPECIAL TOOLS)**

**HELICOPTER, OBSERVATION
OH-58A, OH-58C**

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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**This copy is a reprint which includes current
pages from Changes 1 through 3.**

**AVIATION UNIT AND INTERMEDIATE MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS
AND SPECIAL TOOLS)
FOR
HELICOPTER, OBSERVATION, OH-58A, OH-58C
NSN 1520-00-169-7137
1520-01-020-4216
(Current as of 8 February 1989)**

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistake 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 the manual direct to: Commander, US Army Aviation Systems Command, ATTN: AM SAV-MMD 4300 Goodfellow Blvd., St. Louis, Missouri 63120 1798. A reply will be furnished directly to you.

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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, Observation, OH-58A and Helicopter Observation, OH-58C. 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.
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.
A0	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, requestion.
- XC Installation drawing, diagram, instructin sheet, field source drawing, that is identified by manufacturer's part number.
- XD A support item that is not stoked. 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

NSN

digits of the NSN (i.e., 5305-01-674-1467). When using this column to

NIIN

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 items.

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.

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.

c. Assembly Instructions. Detailed assembly instructions for items source coded 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.

f. Associated Publications. The publications listed below pertain to OH-58A, OH-58C and their components.

Publication and Short Title

TM 11-1520-228-20 - Organizational Maintenance Manual: Electronic Equipment Configuration Army Model OH-58A, OH-58C Helicopters.

TM 11-1520-228-20P - Organizational Maintenance Repair Parts and Special Tools List: Installation Items for Electronic Equipment on OH-58A, OH-58C Helicopters.

TM 11-1520-228-35 - DS, GS, and Depot Maintenance Manual: Electronic Configuration Army Model OH-58A, OH-58C Helicopters.

TM 11-1520-228-35P - DS, GS, and Depot Maintenance Repair Parts and Special Tools Lists: Installation Items for Electronic Equipment on OH-58A, OH-58C Helicopters.

TM 55-1520-228-10 - Operator's Manual: Army Model OH-58A, OH-58C, Helicopters.

TM 55-1520-228-23 - AVIM, AVIM Manual: Army Model OH-58A, OH-58C Helicopters.

TM 55-2840-231-23P - AVUM, AVIM Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools): Engine, Aircraft, Turbine (Allison) T-63-A5A, T-63-A-700.

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 numbers in ascending alphabetic sequence, 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.

c. Supplementary Listing. In the event of a supplemental index, reference should be made first to supplement indices for the latest changes in part numbers, national stock numbers and changes in figure and item numbers before referencing the basic index.

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
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)
LH	Left-hand
MIM	Minimum
MSUP	Maintenance supplies
MWO	Modification work order
NAS	National aircraft standard
NC	American national course thread
NEF	American national 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 or minus
PT	Pint
RH	Right-hand
RMKS	Remarks
RO	Roll
RPL-BY	Replaced by
RPSL	Replaces
SE	Set
SF	Square foot
S1	Square inch
SL	spool
SPEC	Specification(s)
SX	Stick
TRNSTO	Transfer to
TU	Tube
u/o	Used on
USBL EFF	Usable effectivity
USE-AFT-COMP-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

NOTE 1: USBL EFF:

68-16692	68-16909	69-16376	70-15417	71-20492	71-20835
68-16697	68-16911	70-15074	70--15432	71-20495	71-20837
68-16700	68-16917	70-15079	70-15436	71-20508	71-20838
68-16705	68-16928	70-15090	70-15459	71-20517	71-20841
68-16716	68-16931	70-15051	70-15462	71-20532	71-20846
68-16718	68-16935	70--15092	70-15481	71-20550	72-21066
68-16724	68-16939	70-15097	70-15485	71-20556	72-21072
68-16728	68-16940	70-15129	70-15487	71-20563	72-21073
68-16737	68-16947	70-15133	70-15488	71-20573	72-21080
68-16741	68-16948	70-15135	70-15494	71-20574	72-21089
68-16742	68-16951	70-1.5136	70-15497	71-20577	72-21090
68-16747	68-16956	70-15137	70-15510	71-20582	72-21091
68-16750	68-16961	70-15138	70-15515	71-20587	72-21093
68-16751	68-16962	70-15140	70-15520	71-20594	72-21106
68-16762	68-16965	70-15159	70-15543	71-20596	72-21123
68-16764	68-16984	70-15161	70-15579	71-20597	72-21137
60-16783	68-16985	70-15162	70-15585	71-20604	72-21150
68-16787	69-16084	70-15166	70-15592	71-20624	72-21163
68-16793	69-16094	70-15170	70-15603	71-20625	72-21165
68-16794	69-16097	70-15193	70-15609	71-20626	72-21169
68-16798	69-16106	70-15195	70-15619	71-20636	72-21172
68-16800	69-16108	70-15204	70-15621	71-20646	72-21174
68-16810	69-16110	70-15208	70-15633	71-20648	72-21179
68-16811	69-16118	70-15249	70-15634	71-20663	72-21180
68-16812	69-16127	70-15251	70-15639	71-20666	72-21181
68-16819	69-16133	70-15254	70-15647	71-20670	72-21199
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68-16826	69-16155	70-15290	71-15241	71-20673	72-21232
68-16830	69-16166	70-15302	71-20345	71-20679	72-23235
68-16841	69-16170	70-15307	71-20352	71-20684	72-21247
68-16845	69-16171	70-15311	71-20353	71-20704	72-21275
68-16849	69-16178	70-15316	71-20354	71-20713	72-21282
68-16853	69-16181	70-15319	71-20356	71-20739	72-21301
68-16855	69-16208	70-15325	71-20364	71-20746	72-21032
68-16859	69-16236	70-15339	71-20365	71-20749	72-21303
68-16870	69-16237	70-15345	71-20639	71-20751	72-21304
68-16877	69-16239	70-15353	71-20381	71-20753	72-21308
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68-16886	69-16264	70-15374	71-20396	71-20771	72-21380
68-16892	69-16297	70-15377	71-20403	71-20773	72-21419
68-16896	69-16305	70-15381	71-20421	71-20775	72-21420
68-16898	69-16352	70-15387	71-20427	71-20779	72-21444
68-16899	69-16354	70-15388	71-20435	71-20800	72-21460
68-16902	69-16360	70-15390	71-20444	71-20813	73-21878
68-16903	69-16363	70-15398	71-20476	71-20817	73-21932
68-16907	69-16365	70-15416	71-20481	71-20822	

SHIPS WITH THESE SERIAL NUMBERS WILL HAVE A FLAT CANOPY AND THE VULNERABILITY KIT INSTALLED.

NOTE 2: ARMY SERIAL NUMBERS FOR THE REMAINING SHIPS TO BE MODIFIED WILL BE DETERMINED AS THEY ARE RECEIVED FOR MODIFICATIONS: THESE SHIPS WILL RETAIN THE ROUND GLASS CANOPY AND THE VULNERABILITY KIT WILL NOT BE INSTALLED PER ECP 0H58A-245.