

***TM 1-1520-238-23P-5**

TECHNICAL MANUAL

**AVIATION UNIT AND INTERMEDIATE MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST**

FOR

**HELICOPTER, ATTACK,
AH-64A APACHE
(NSN 1520-01-106-9519)**

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

***This manual supersedes TM 1-1520-238-23P-5, dated 25 May 2001.**

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HELICOPTER, ATTACK,
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Current as of 31 December 2000

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 directly to: Commander, U.S. Army Aviation and Missile Command, ATTN: AMSAM-MMC-MA-NP, Redstons Arsenal, AL 35898-5230. A reply will be furnished directly to you. You may also send in your comments electronically to our e-mail address: 2028@redstone.army.mil or by fax 205-842-6546/DSN 788-6546. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

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NOTE:

This manual is printed in five volumes as follows:

- TM 1-1520-238-23P-1, consisting of Table of Contents, Section I and Section II (Functional Groups 00 thru 05).
 - TM 1-1520-238-23P-2, consisting of Table of Contents, Section I and Section II (Functional Groups 06 thru 09).
 - TM 1-1520-238-23P-3, consisting of Table of Contents, Section I and Section II (Functional Groups 10 thru 60) and Section III.
 - TM 1-1520-238-23P-4, consisting of Section I and Section IV (National Stock Number Index and Part Number Index).
 - TM 1-1520-238-23P-5, consisting of Section I and Section IV (Figure and Item Number Index).
- Sections I and IV are applicable to the -1, -2, -3, -4, and -5.

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AVIATION UNIT AND INTERMEDIATE MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

SECTION I. INTRODUCTION

1. Scope.

This RPSTL lists and authorizes spares and repair parts; special tools; special Test, Measurement, and Diagnostic Equipment (TMDE); and other special support equipment required for performance of aviation unit and aviation intermediate maintenance of the AH-64A Advanced Attack Helicopter. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the Source, Maintenance and Recoverability (SMR) codes.

2. General.

In addition to Section I, Introduction, this Repair Parts and Special Tools List is divided into the following sections:

a. **Section II. Repair Parts List.** A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in item name sequence.

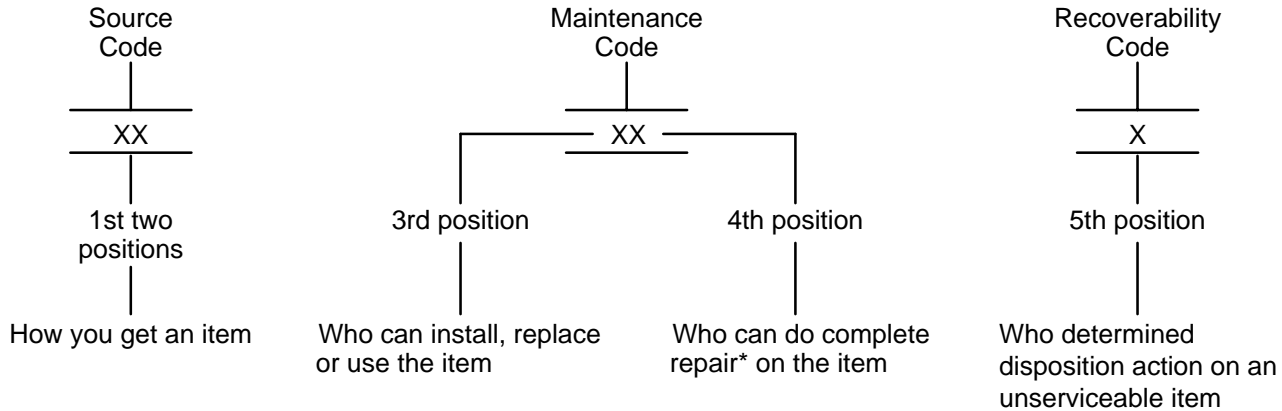
b. **Section II. Special Tools List.** A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE (UOC) column) for the purpose of maintenance.

c. **Section IV. Cross-reference Indexes.** A list, in National Item Identification Number (NIIN) sequence, of all National Stock Numbers (NSN) appearing in the listing, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance. The figure and item number index lists figure and item numbers in alphanumeric sequence and cross-references NSN, FSCM/CAGE and part numbers.

3. Explanation of Columns (Sections II and III).

a. **ITEM NO (Column (1)).** Indicates the number used to identify items called out in the illustration.

b. **SMR CODE (Column (2)).** The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



*Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) **Source Code.** The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow:

Code	Explanation
PA PB PC** PD PE PF PG	Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the 3rd position of the SMR code. **NOTE: Items coded PC are subject to deterioration.
KD KF KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied.
MO- (Made at org/ AVUM Level) MF- (Made at DS/ AVIM Level) MH- (Made at GS Level) ML- (Made at Specialized Repair Activity (SRA)) MD- (Made at Depot)	Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the Bulk Material group of the repair parts list in this RPSTL. Fabricated items may also be made utilizing Appendix D of the TM 1-1520-238-23 Series. If the item is authorized to you by the 3rd position code of the SMR code, but the source code indicates it is made at a higher Level, order the item from the higher Level of maintenance.

Code	Explanation
AO- (Assembled by org/AVUM Level)	<p>Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the Level of maintenance indicated by the source code. If the 3rd position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher Level, order the item from the higher Level of maintenance.</p>
AF- (Assembled by DS/AVIM Level)	
AH- (Assembled by GS Category)	
AL- (Assembled by SRA)	
AD- (Assembled by Depot)	

- XA- Do not requisition an "XA"-coded item. Order its next higher assembly. (Also, refer to the NOTE below)
- XB - If an "XB" item is not available from salvage, order it using the FSCM/CAGE and part number given.
- XC- Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
- XD- Item is not stocked. Order an "XD"-coded item through normal supply channels using the FSCM/CAGE and part number given, if no NSN is available.

NOTE: Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 700-42.

(2) **Maintenance Code.** Maintenance codes tell you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR Code as follows:

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

Code	Application/Explanation
C	-Crew or operator maintenance done within organizational or aviation unit maintenance.
O	-Organizational or aviation unit category can remove, replace, and use the item.
F	-Direct support or aviation intermediate level can remove, replace, and use the item.
H	-General support level can remove, replace, and use the item.
L	-Specialized repair activity can remove, replace, and use the item.
D	-Depot level can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., perform all authorized repair functions.) (NOTE: Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.) This position will contain one of the following maintenance codes.

Code	Application/Explanation
O	–Organizational or aviation unit is the lowest level that can do complete repair of the item.
F	–Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
H	–General support is the lowest level that can do complete repair of the item.
L	–Specialized repair activity (designated the specialized repair activity) is the lowest level that can do complete repair of the item.
D	–Depot is the lowest level that can do complete repair of the item.
Z	–Nonreparable. No repair is authorized.
B	–No repair is authorized. (No parts or special tools are authorized for the maintenance of a “B” coded item). However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

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

Recoverability Codes	Application/Explanation
Z	–Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3rd position of SMR Code.
O	–Reparable item. When uneconomically repairable, condemn and dispose of the item at organizational or aviation unit level.
F	–Reparable item. When uneconomically repairable, condemn and dispose of the item at the direct support or aviation intermediate level.
H	–Reparable item. When uneconomically repairable, condemn and dispose of the item at the general support level.
D	–Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
L	–Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
A	–Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to specific instructions.

c. **FSCM/CAGE (Column (3)).** The Federal Supply Code for Manufacturer (FSCM/CAGE) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

d. **PART NUMBER (Column (4)).** 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.

NOTE: When you use a NSN to requisition an item, the item you receive may have a different part number from the part ordered.

e. **DESCRIPTION AND USABLE ON CODE (UOC) (Column (5)).** This column includes the following information:

- (1) The Federal item name and, when required, a minimum description to identify the item.
- (2) The physical security classification is not applicable.
- (3) Items that are included in kits and sets are listed below the name of the kit or set.
- (4) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.
- (5) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured/fabricated.
- (6) When the item is not used with all the serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).
- (7) The usable on code, when applicable (see paragraph 5, Special Information).
- (8) In the Special Tools List section, the basis of issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.
- (9) The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section III.

f. **QTY (Column (6)).** The QTY (quantity per figure column) indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

4. Explanation of Columns (Section II and III).

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., $\frac{\text{NSN}}{5305-01-674-1467}$). 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 parts by stock number.

(2) **FIG. 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 FIG. 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, followed by the numbers 0 through 9 and each following letter or digit in like order).

(1) **FSCM/CAGE column.** The Federal Supply Code for Manufacturer (FSCM/CAGE) 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.

(3) **STOCK NUMBER column.** This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and FSCM/CAGE columns to the left.

(4) **FIG. 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.

c. **FIGURE AND ITEM NUMBER INDEX.**

(1) **FIG. 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.

(2) **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.

(3) **STOCK NUMBER column.** This column lists the NSN for the item.

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

(5) **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.

5. Special Information.

a. **USABLE ON CODE.** The usable on code appears in the lower left 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 the 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 1-1520-238-23.

c. **ASSEMBLY INSTRUCTION.** Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are found in TM 1-1520-238-23. 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 publication(s) listed below pertain to the AH-64A Advanced Attack Helicopter and its components.

<u>Publication</u>	<u>Short Title</u>
TM 1-1520-238-23	AVUM and AVIM Maintenance, AH-64A Advanced Attack Helicopter

g. **ILLUSTRATIONS – LISTING.** Higher-category RPSTL illustrations are not applicable.

6. How To Locate Repair Parts.

a. When National Stock Number or Part Number is Not Known.

(1) **First.** Using the table of contents, determine the assembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) **Second.** Find the figure covering the assembly group or subassembly group to which the item belongs.

(3) **Third.** Identify the item on the figure and use the Figure and Item Number Index to find the NSN.

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

(1) **First.** Using the National Stock Number or Part Number Index, find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence (see 4a(1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see 4b). Both indexes cross-reference you to the illustration/figure and item number of the item you are looking for.

(2) **Second.** Turn to figure and item number, verify that the item is the one you are looking for, then locate the item number in the repair parts list for the figure.

7. Abbreviations.

<u>Abbreviations</u>	<u>Explanation</u>
AAB	AFT Avionics Bay
AAH	AH-64A Advanced Attack Helicopter
ADP	Air Data Processor
APU	Auxiliary Power Unit
ASE	Automatic Stabilization Equipment
AVIM	Direct Support or Aviation Intermediate Maintenance Repair Parts and Special Tools List
AVUM	Organizational or Aviation Intermediate Maintenance Repair Parts and Special Tools List
BUCS	Back Up Control System
CPG	Copilot/Gunner
DASE	Digital Automatic Stabilization Equipment
ECS	Environmental Control System
ECU	Environmental Control Unit

<u>Abbreviations</u>	<u>Explanation</u>
EFF	Effectivity
EMI	Electro-Magnetic Interference
FAB	Forward Avionics Bay
FD/LS	Fault Detection/Location Subsystem
FIG/FIGS	Figure/Figures
FS	Fuselage Station
FSP	Flight Safety Part
IPAS	Integrated Pressurized Air System
IRS	Infra-Red Suppressor
LG	Landing Gear
LH	Left Hand
MLG	Main Landing Gear
M/R, MR	Main Rotor
MRH	Main Rotor Head
NHA	Next Higher Assembly
NIIN	National Item Identification Number (consists of the last 9 digits of the NSN)
PAS	Pressurized Air System
QEC	Quick Engine Change
RH	Right Hand
RPSTL	Repair Parts and Special Tools List
SDC	Shaft Driven Compressor
SDC	Signal Data Converter
T/R, TR	Tail Rotor
U/O	Use On
USBL	Usable
XDCR	Transducer
XMSM	Transmission

CROSS REFERENCE INDEXES

FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGE	PART NUMBER
2	1		02731	7-311111090-607
2	2		02731	7-311111140-601
2	2		02731	7-311111140-602
2	3		02731	7-311111100-603
2	4		02731	7-311111050
2	4		02731	7-311111050-601
2	5		02731	7-311111060
2	5		02731	7-311111060-601
2	6		02731	7-311111230-601
2	6		02731	7-311111230-602
2	6		02731	7-311111230-604
2	7		02731	7-311111250
2	7		02731	7-311111255
2	8		02731	7-311111110
3	1		02731	7-311111090-15
3	2		02731	7-311111090-13
3	3		02731	7-311111090-14
3	4		02731	7-311111090-11
3	5		02731	7-311111090-3
3	6		02731	7-311111090-79
3	7		02731	HS195-032001
3	8	5320-01-264-2092	99551	2881003-4
3	9	5325-01-178-5041	02731	HS4430-1
3	10		02731	7-311111090-67
3	11		02731	7-311111090-68
3	12	5310-00-772-3720	80205	MS21075L3E
3	13		02731	7-311111090-75
3	13		02731	7-311111090-97
3	14		02731	HS5604-5-2
3	15	5320-00-959-0172	02731	HS5614-5
3	16		02731	HS5604-5-3
3	17	5320-01-195-0073	02731	HS5613-5
3	18		02731	HS5604-5-4
3	19	5320-01-195-0073	02731	HS5613-5
3	20		02731	HS5606-5-3
3	21	5320-00-959-0172	02731	HS5614-5
3	22		02731	7-311111090-29
3	23		02731	7-311111090-77
3	24		02731	7-311111090-39
3	25		02731	7-311111090-57
3	26		02731	7-311111090-61
3	27		02731	7-311111090-19
3	28		02731	7-311111090-21
3	29		02731	7-311111095
3	30		02731	7-311111090-65
3	31		02731	7-311111090-87
3	32		02731	7-311111090-89
3	33		02731	7-311111096
3	34		02731	7-311111090-33
3	35		02731	7-311111090-23
3	36		02731	7-311111090-63
3	37		02731	7-311111090-81
3	38		02731	7-311111090-53
3	39		02731	7-311111090-17
3	40		02731	7-311111090-59
3	41		02731	7-311111090-5
3	42		02731	7-311111090-25
3	43	5310-00-847-5715	80205	NAS1195DD3XH

FIG.	ITEM	STOCK NUMBER	CAGE	PART NUMBER
3	44	5310-00-882-0429	80205	NAS1195DD3XM
3	45		02731	7-311111090-43
3	46	5340-01-177-5807	02731	HS4592-1D6-6
3	47		02731	7-311111090-27
3	48		02731	7-311111090-45
3	49		02731	7-311111090-52
3	50	5340-01-179-3732	02731	HS4592-1D6-10
3	51		02731	7-311111090-31
3	52		02731	7-311111090-51
3	53		02731	7-311111090-83
3	54	5310-00-772-3720	80205	MS21075L3E
3	55		02731	7-311111274-7
3	56		02731	7-311111274-11
3	57	5320-01-164-1669	02731	HS5435-0309
3	58	5940-01-115-7757	81349	M83454/04-AA108
4	1	5305-00-995-2125	80205	NAS603-7P
4	2	5305-00-813-2791	80205	NAS603-9P
4	3	5310-01-105-7241	88044	AN960JD10L
4	4	1560-01-172-8202	02731	7-311111210-1
4	5	1560-01-172-5273	02731	7-311111210-3
4	6	1560-01-335-7247	02731	7-311111211-9
4	7	1560-01-333-6044	02731	7-311111211-10
4	8	5310-01-185-9150	02731	HS4482-02-4
4	9	5999-01-331-4064	02731	7-311111305-5
4	10	5999-01-331-8155	02731	7-311111305-9
4	11	5342-01-252-6446	02731	7-311111212-5
4	12	5342-01-252-6447	02731	7-311111212-6
4	13	5310-01-185-9150	02731	HS4482-02-4
4	14	1560-01-360-1486	02731	7-311111213-5
4	15	5999-01-331-3142	02731	7-311111305-7
4	16	1560-01-333-2201	02731	7-311111142-9
4	17	5999-01-331-3893	02731	7-311111305-3
5	1		02731	7-311111140-52
5	2		02731	7-311111140-34
5	3		02731	7-311111140-30
5	4		02731	7-311111140-31
5	5	5340-00-514-1339	88044	AN743Z13
5	6	5342-01-177-5647	02731	7-311111191
5	7	3120-01-172-5151	02731	HS606S3-4
5	8	1560-01-172-4995	02731	7-311111140-19
5	9		02731	7-311111140-26
5	10		02731	7-311111140-28
5	11		02731	7-311111140-21
5	12	5310-00-784-8145	96906	MS21075L4E
5	13	5940-01-246-8076	81349	M83454/02-AA106
5	14		02731	7-311111140-51
5	15		02731	7-311111140-17
5	16		02731	7-311111140-33
5	17		02731	7-311111140-35
5	18	5310-00-772-3720	80205	MS21075L3E
5	19		02731	7-311111140-29
5	20	5340-00-514-1339	88044	AN743Z13
5	21		02731	7-311111140-25
5	22		02731	7-311111140-27
5	23		02731	7-311111140-21
5	24	5340-01-171-3791	02731	7-311111140-23
5	25	5940-01-246-8076	81349	M83454/02-AA106
6	1		02731	7-311111005-605
6	2	5340-01-296-6540	02731	HS4712A064
6	3	5310-01-182-8982	02731	HS4595-064
6	4	3120-01-471-6751	02731	HS5542-06025
6	5		02731	7-311111150-1
6	5		02731	7-311111150-2