

CHAPTER 4

MATERIEL USED IN CONJUNCTION WITH MAJOR ITEMS

4-1. General

This chapter contains information on materiel used with the major items.

4-2. Description and Usage

a. **Bayonet-Knife, M7.** The bayonet-knife (fig. 4-1) is used for close combat, guarding of prisoners, riot duty, etc. It is also used as a general utility knife. The blade has a full cutting edge on the bottom and a $3\text{--}1/8$ inches cutting edge on the top. The handle fits com-

fortably and has a knurled surface for a firm grip.

b. **Bayonet-Knife Scabbard, M8A1.** The bayonet-knife scabbard (fig. 4-1) is used to carry the bayonet-knife when not being used on the rifles.

4-3. Installation and Removal

Refer to figure 3-7.

4-4. Disassembly and Assembly

Refer to figure 4-2.

4-5. Cleaning, Inspection and Repair

a. **Cleaning.** Refer to table 3-1.

b. **Inspection and Repair.**

(1) If the bayonet-knife fails to slide over the bayonet stud of the rifle- **or** can be removed without compressing the releases, the releases are assembled incorrectly. Evacuate to direct support maintenance to be assembled correctly.

(2) If the releases are assembled correctly, inspect for a weak or broken release spring. If spring is weak or broken evacuate to direct support maintenance for replacement.

(3) If screws or washers are missing or damaged replace.

Note. For repair parts refer to TM 9-1005-237-15P.

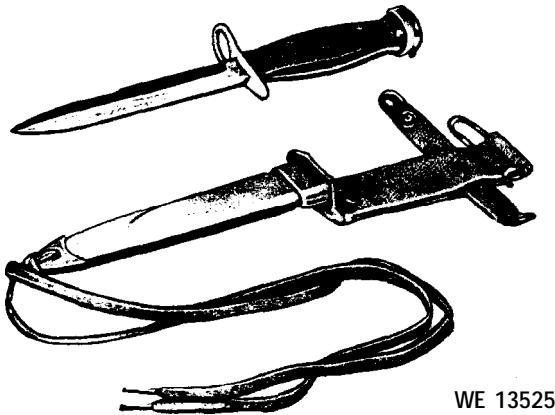
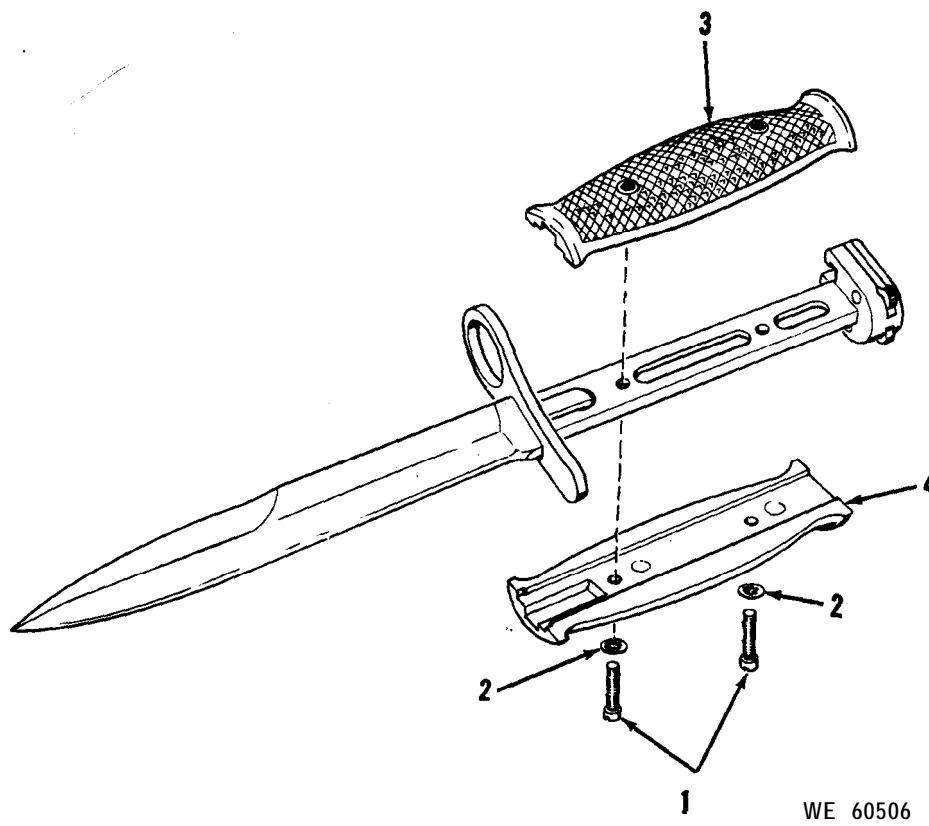


Figure 4-1. **Bayonet-Knife, M7 and Bayonet-Knife Scabbard, M8A1.**



WE 60506

Figure 4-2. Bayonet-Knife MT-partial exploded view.

CHAPTER 5

AMMUNITION

5-1. General

The ammunition for the Rifles, **5.56-MM**, M16 and **M16A1** is classified as small-arms ammunition and is issued in the form of a complete round. A complete round (cartridge) consists of all the components necessary to fire the weapon once, that is, projectile (bullet), cartridge case, propellant, and primer.

5-2. Classification

a. Cartridges for the Rifles, **5.56-MM**, M16 and **M16A1** are classified as centerfire cartridges. In a centerfire cartridge the primer is located in a small well or pocket in the center of the cartridge case head.

b. The cartridges for these weapons are classified and identified according to type and model as follows:

- (1) Ball, M 193
- (2) Tracer, M196
- (3) Dummy, M199
- (4) Blank, M200

5-3. Identification

a. General. Ammunition for this weapon is identified completely by packing and marking, including the ammunition lot number, on original packing containers. When ammunition is removed from its original packing container, the full identity of the ammunition, including the lot number, nomenclature and model designation shall be maintained with the ammunition.

b. *Identification.* The various cartridges can be visually identified as itemized in table 5-1.

Table 5-1. Identification of **5.56-MM** Cartridges

Type of cartridge	Identification
Ball, M193 ..	None (See figure 5-1).
Tracer, M196	Red bullet tip.
Dummy, M199	Six longitudinal corrugations in case.
Blank, M200 . *	Rosette crimp and indentation knurl 1/2 inch from base of case, white tip.

*In the past the tip has been clear or black, but currently it is white.

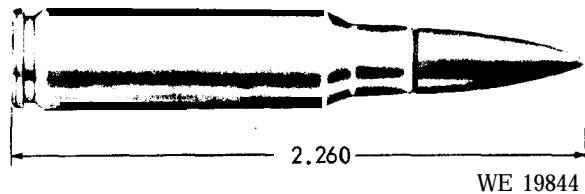


Figure 5-1. Cartridge, **5.56-MM**, Ball, **M193**.

c. *Marking.* Ammunition for **5.56-mm** weapons has the manufacturer's identification and year of manufacture impressed on the head of the cartridge case. The year is denoted by the last two digits of the calendar year.

5-4. Care, Handling and Preservation

a. This ammunition is not dangerous to handle. It is packed to withstand conditions normally encountered in the field. Moisture resistant ammunition boxes are used to provide protection during shipment and storage; however, care must be taken to prevent this packing from becoming damaged. All damaged packing must be repaired or replaced immediately with careful attention given to the transfer of all markings to the new parts.

b. Ammunition boxes should be opened carefully as they are to be used as long as they are serviceable.

c. Ammunition boxes should not be opened until the ammunition is required for use. Ammunition removed from airtight containers for extended periods of time, particularly in damp climate, is apt to corrode, thereby rendering the ammunition unserviceable.

d. Cartridges should be protected from high temperatures and prolonged exposure to the direct rays of the sun. Such exposure is likely to affect ballistic performance of the cartridges. The combination of high temperatures and a humid atmosphere is particularly detrimental to the stability of the propellant and to the tracer mixture in tracer ammunition.

e. Cartridges should be kept clean and free of foreign matter. If cartridges get wet or dirty, they should be wiped off at once. If light corrosion forms on cartridges, it should be wiped off with a clean dry cloth. If a cartridge case becomes so corroded that any amount of metal is eaten away, it is dangerous to fire and should not be fired. Cartridges should not be polished to make them look better or brighter.

f. The use of oil or grease on cartridges is prohibited. Oil or grease might cause injurious abrasives to collect in weapons or produce excessive and hazardous chamber pressures when fired.

g. Whenever practicable, ammunition should be stored under cover. This applied particularly to tracer ammunition.

h. When it is necessary to store ammunition in open storage, raise it on **dunnage** at least six inches from the ground and cover it with a double thickness of **paulin**, leaving enough space for the free circulation of air through the stack. Suitable trenches should be dug to prevent water from running under the stack.

i. When ammunition is stored, it should be segregated by caliber or millimeter, type, and ammunition lot.

j. When only a part of a box of ammunition is issued or used the ammunition remaining in the ammunition box should be protected by firmly fastening the cover.

k. Ammunition removed from the original packing should be tagged or marked so as to preserve the ammunition lot number.

1. For additional instructions in the care, handling, and preservation, destruction of ammunition refer to TM 9-1300-206.

5-5. Authorized Cartridges

The following cartridges are authorized for use with this weapon:

- a. Ball, M193
- b. Tracer, M196
- c. Dummy, M199
- d. Blank, M200

5-6. Preparation for Firing

a. After removal, from packing materials, these cartridges are ready to be used.

b. Cartridges which are not used will be returned to their original packings. (Such cartridges will be used first in subsequent firings so as to reduce stocks of opened packings.) If the original packings are not utilized, the boxes in which the ammunition is stored should be appropriately marked with the nomenclature of the cartridges and the ammunition lot number.

5-7. Packing

The ammunition box and method of pack for **5.56-mm** ammunition for these weapons is given in drawings, specifications, or as specified in the procurement contract. The ammunition box presently being used has been designed to withstand all conditions commonly encountered in handling, storing, and transportation of the ammunition.

CHAPTER 6

DEMOLITION OF MATERIEL TO PREVENT ENEMY USE

6-1. General

a. Rifles, subject to capture or abandonment in the combat zone, will be destroyed only by the authority of the unit commander, in accordance with orders of, or policy established by the army commander. The destruction of equipment is to be reported through regular Command channels.

b. The information which follows is for guidance only. Certain of the procedures outlined require use of explosives and **incendiary** grenades, normally not authorized items of issue to the using organization. Issue of these and related items, and conditions under which destruction will be effected are command decisions based on the tactical situation. Of the several means of destruction, the following generally apply :

Mechanical	Requires axe, pick mattock, sledge, crowbar, or other flammables or welding or cutting torch.
Burning	Requires gasoline, oil, incendiary grenades, and other flammables or welding or cutting torch.
Demolition	Requires suitable explosives or ammunition.
Gunfire	Includes artillery, machine gun, rifle grenades, and launchers using antitank rockets. Under some circumstances, hand grenades may be used.
Disposal	Requires burying in the ground, dumping in streams or marshes, or scattering so widely as to preclude recovery of essential parts.

Destruction of essential parts by mechanical means will render the rifle useless, however,

selection depends upon utilizing facilities on hand under existing conditions. Time is usually critical.

c. If destruction to prevent enemy use is resorted to, the rifle and bipod must be damaged so that they cannot be restored to a usable condition in combat zone either by repair or cannibalization. Adequate destruction requires that all parts essential to the operation of the rifle and bipod be destroyed or damaged beyond repair. However, when lack of time and personnel prevent destruction of all parts, priority is given to destruction of parts in the following order:

- (1) Bolt carrier group
- (2) Upper receiver group
- (3) Lower receiver group

It is equally important that the same essential parts be destroyed on all like materiel, including spare parts, so that the enemy cannot construct one, complete unit from several damaged units.

d. If destruction is directed, due consideration should be given observance of appropriate safety precautions.

6-2. Destruction of the Rifles, **5.56-MM, M16, M16A1, Bipod, Rifle, M3**

Warning: Do not use any type of mechanical means for destruction of ammunition.

a. **Method No. 1-By Mechanical Means.**

Using an axe, pick mattock, sledge, or other heavy implement, destroy the rifles by smashing the receiver groups, front and rear sights, trigger and trigger guard, magazine, stock, and controls. Also bend the barrel and cut the sling into several pieces. Destroy the bipod using same items listed above.

Elapsed time: about 3 minutes.

b. Method No. 2-By Burning.

(1) Place the rifle on a suitable pile of combustible material. Pour gasoline or oil over the rifle and bipod and the combustible material. Ignite and take cover. A hot fire is required to render the rifle and bipod useless. Elapsed time: about 3 minutes.

Warning: When igniting gasoline, due consideration should be given to the highly flam-

mable nature of gasoline and its vapor. Carelessness in its use may result in painful burns.

(2) If a welding or cutting torch is available, burn through the barrel and receiver groups. Destroy the stock and sling as described in paragraph a, above.

c. Method No. 3-By Disposal. Bury the rifle in a suitable hole or dump it into a stream.

Elapsed time: about 3 minutes.

APPENDIX A

REFERENCES

A-1. Publication Indexes

The following indexes should be consulted frequently for the latest changes, revisions of reference given in this appendix and new publications relating to material covered in this manual.

Military Publications :

Index of Administrative Publications	DA Pam 310-1
Index of Army Films, Transparencies, GTA Charts, and Recordings	DA Pam 108-1
Index of Blank Forms	DA Pam 310-2
Index of Doctrinal, Training, and Organizational Publications ...	DA Pam 310-3
Index of Modification Work Orders	DA Pam 310-7
Index of Supply Catalogs and Supply Manuals (excluding types 7, 8, and 9)	DA Pam 310-6
Index of Technical Manuals, Technical Bulletins, Supply Manuals (types 7, 8, and 9), Supply Bulletins, and Lubrication Orders ...	DA Pam 310-4

A-2. Forms

The following form pertains to this materiel DA Form 2028
Recommended Changes to DA Publications.

A-3. Other Publications

a. Ammunition.

Care, Handling, Preservation, and Destruction of Ammunition ... TM 9-1300-206

b. General.

Logistics Management:

Army Equipment Record Procedures TM 38-750

Special Operations :

Basic Cold Weather Manual FM 31-70

Related Publications:

Organizational, and DS maintenance manual :

Starlight scope, small, hand-held or individual weapons mounted TM 11-1090-268-13

Organizational and DS maintenance manual:

Night vision sight individual weapons mounted AN/PVS-2 TM 11-5855-203-13

Stowage locations for rifle bracket assembly 2590-045-9611 on

trucks, $\frac{3}{4}$ ton, 4 x 4, M37, M37B1, M201 and M201B1; 2- $\frac{1}{2}$

ton, 6 x 6, M44, M44A1, M44A2 series; 5 ton, 6x6, M39, M39A2

series; 10 ton, 6 x 6, M123, M123C, and M123A1C TB 9-2300-209-20

APPENDIX B

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

B-1. Scope

This appendix lists basic issue items, repair parts, and special tools required for the performance of organizational maintenance of the Rifles M16 and **M16A1**, and Bipod, Rifle, **M3**.

E-2. General

The Basic Issue Items, Repair Parts, and Special Tools List is divided into the following sections :

a. **Basic Issue Items List-Section II.** A list of items which accompany the rifles and bipod and are required for installation, operation, or maintenance.

b. **Maintenance and Operating Supplies-Section III.** A listing of maintenance and operating supplies required for initial operation.

c. **Prescribed Load Allowance (PLA)-Section IV.** A composite listing of repair parts, special tools, test and support equipment having quantitative allowances for initial stockage at the organizational level.

d. **Repair Parts-Section V.** A list of repair parts authorized for the performance of maintenance at the organizational level in figure and item number sequence.

e. **Special Tools, Test and Support Equipment-section VI.** A list of special tools test and support equipment authorized for the performance of maintenance at the organizational level.

f. **Federal Stock Number and Reference Number Index-Section VZZ.** A list of Federal stock numbers in ascending numerical sequence,

followed by a list of reference numbers appearing in all the listings, in ascending alphanumeric sequence, cross-referenced to the illustration figure number and item number.

B-3. Explanation of Columns

The following provides an explanation of columns in the tabular lists in Sections II through VI.

a. **Source, Maintenance, and Recoverability Codes (SMR).**

(1) Source Code. Indicates the selection status and source for the listed item. Source codes used are:

Code	Explanation
P	Repair parts which are stocked in or supplied from the GSA/DSA, or Army supply system, and authorized for use at indicated maintenance categories.
M	Repair parts which are not procured or stocked but are manufactured at indicated maintenance categories.
A	Assemblies which are not procured or stocked as such but are made up of two or more units, each of which carry individual FSNs and descriptions and are procured and stocked and can be assembled by units at indicated maintenance categories.
X	Parts and assemblies which are not procured or stocked; the mortality of which is normally below that of the applicable end item; and the failure of which should result in retirement of the end item from the supply system.
X1	Repair parts which are not procured or stocked, the requirements for which will be supplied by use of next higher assembly or component.
X2	Repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain through cannibalization ; if not obtainable through

Code	Explanation
	cannibalization, such repair parts will be requisitioned with supporting justification through normal supply channels.
C	Repair parts authorized for local procurement. When not obtainable from local procurement, such repair parts will be requisitioned through normal supply channels with a supporting statement of nonavailability from local procurement.
G	Major assemblies that are procured with PEMA funds for initial issue only to be used as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above DSU and GSU level or returned to Depot supply level.

(2) **Maintenance Code.** Indicates the lowest category of maintenance authorized to install the item. The maintenance level codes are :

Code	Explanation
C	Operator/crew
0	Organizational maintenance

(3) **Recoverability Code.** Indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. The recoverability codes are :

Code	Explanation
R	Repair parts and assemblies which are economically repairable at DSU and GSU activities and are normally furnished by supply on an exchange basis.
T	High dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts are normally repaired or overhauled at depot maintenance activities.
U	Repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value reusable casings, etc.
S	Repair parts and assemblies which are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis. However, when these items are determined to be uneconomically repairable by a GSU they will be evacuated to a depot for evaluation and analysis before final disposition.

No Code Parts will be considered expendable. Indicated

b. **Federal Stock Number.** Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

c. **Description.** Indicates the Federal item name and any additional description of the item required. The abbreviation "w/e" when used as a part of the nomenclature, indicates

that the Federal stock number includes all armament, equipment, accessories, and repair parts issued with the item. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses.

d. **Unit of Measure (U/M).** A 2 character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based, e.g., ft, ea, pr, etc.

e. **Quantity Incorporated in Unit.** Indicates the quantity of repair parts in a group or assembly. A "V" appearing in this column is lieu of a quantity indicates that a definite quantity cannot be indicated (e.g. shims, spacers, etc.).

f. **Quantity Furnished with Equipment.** Indicates the quantity of an item furnished with the equipment (BIIL only).

g. **Component Application.** Identifies the component application of each maintenance or operating supply item (M&O supplies only).

h. **Quantity Required for Initial Operation.** Indicates the quantity of each maintenance or operating supply item required for initial operation of the equipment (M&O supplies only).

i. **Quantity Required for 8 Hours Operation.** Indicates the estimated quantities required for an average 8 hours of operation (M&O supplies only).

j. **Notes.** Indicates informative notes keyed to data appearing in a preceding column (M&O supplies only).

k. **15-Day Organizational Maintenance Allowances.**

(1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn opposite the first appearance of each item is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in the allowance columns. Items authorized for use as required but not for initial **stockage** are identified with an asterisk in the allowance column.

(2) The quantitative allowances for organizational level of maintenance represents

one initial prescribed load for a **15-day** period, for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.

(3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. Example, authorized allowance for 51-100 equipments is 12; for 140 equipments multiply 12 by 1.40 or 16.80 rounded off to 17 parts required.

(4) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendations should be forwarded to Commanding General, Headquarters, U.S. Army Weapons Command, ATTN : AMSWE-SMM-SA, Rock Island, Ill 61201, for exception or revision to the allowance list. Revisions to the range of items authorized will be made by the U.S. Army Weapons Command based upon engineering experience, demand data, or TAERS information.

1. **Illustration.**

(1) **Figure Number.** Indicates the figure number of the illustration in which the item is shown.

(2) **Item Number.** Indicates the callout number used to reference the item in the illustration.

Note. Items called-out on illustration, but not listed, are for disassembly purposes only.

B-4. Special Information

Identification of the usable on codes of this publication are :

Code	Used On
Blank	M16 and M16A1
A	M16
B	M16A1

Note. There are no repair parts authorized for Bipod, M3.

B-5. How to locate Repair Parts

a. When Federal stock number is unknown :

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

(2) **Second.** Find the illustration covering the functional group or assembly 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 functional group or assembly to which the repair part belongs and locate the illustration figure and item number noted in the illustration.

b. When Federal stock number or reference number is known:

(1) First. Using the Index of Federal Stock Numbers and Reference Numbers, find the pertinent Federal stock number or reference number. This index is in ascending FSN sequence followed by a list of reference numbers in alpha-numeric sequence, cross-referenced to the illustration figure number and item number.

(2) Second. Using the Repair Part Listing, find the functional group or assembly of the repair part and the illustration figure number and item number referenced in the Index of Federal Stock Numbers and Reference Numbers.

B-6. Abbreviations

Abbreviation	Explanation
cres	corrosion resistant steel
dld-f/lkg	drilled for locking
ext-teeth	external teeth
fil-hd	fillister head
id	inside diameter
NF	National fine (thread)
nom	nominal
o d	outside diameter
pass-fin	passivated finish
phos-ctd	phosphate coated
S	steel
w/	with

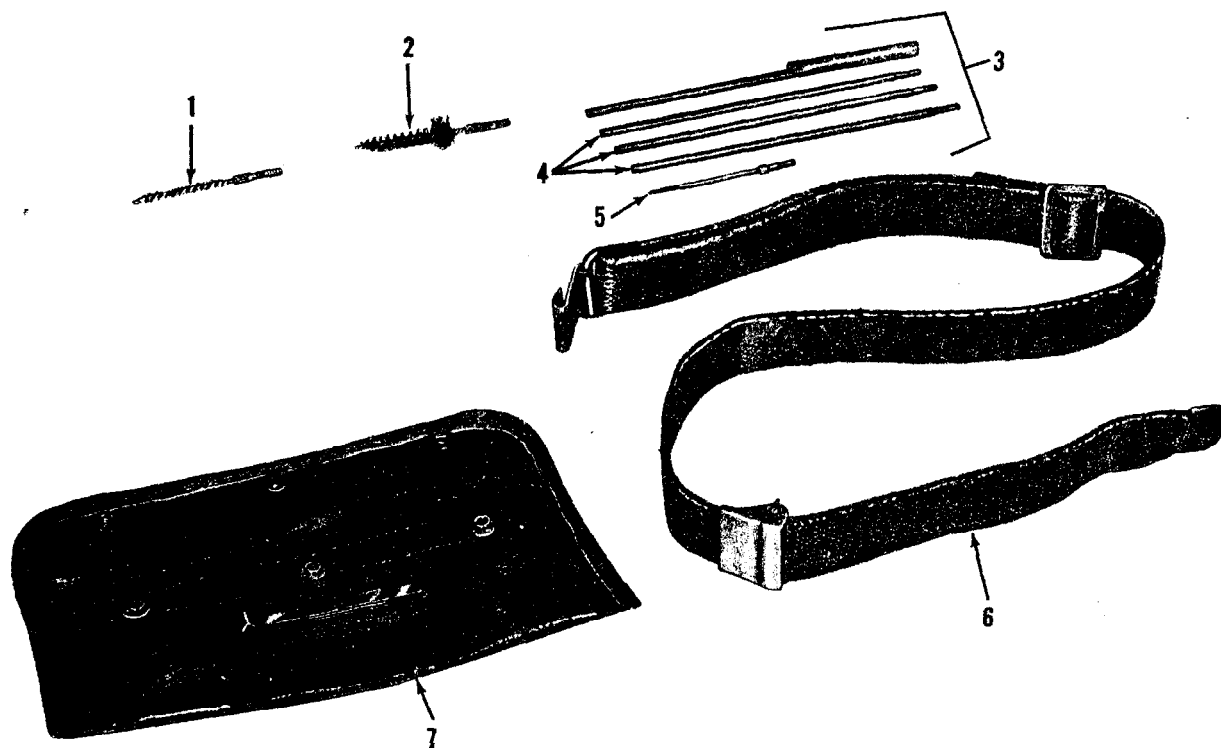
B-7. Federal Supply Code for Manufacturers

Code	Manufacturer
1 3 6 2 9	Colt Industries, Inc., Firearms Division, Hartford, Connecticut
19204	Rock Island Arsenal, Rock Island, Illinois
19205	Springfield Armory, Springfield, Mass.

Cods
81337

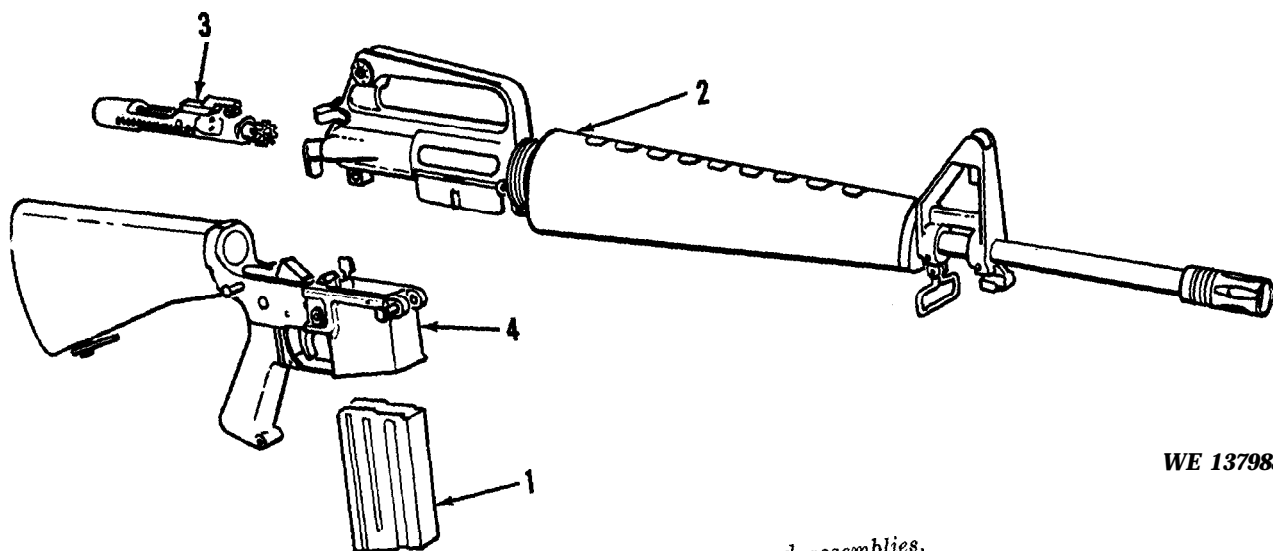
Manufacturer
Army Natick Laboratories, Mechanical
Engineering Division, Natick, Massa-
chusetts

96906 Military Standards, Promulgated by
Standardization Division, Directorate of
Logistics Services, Defense Supply
Agency



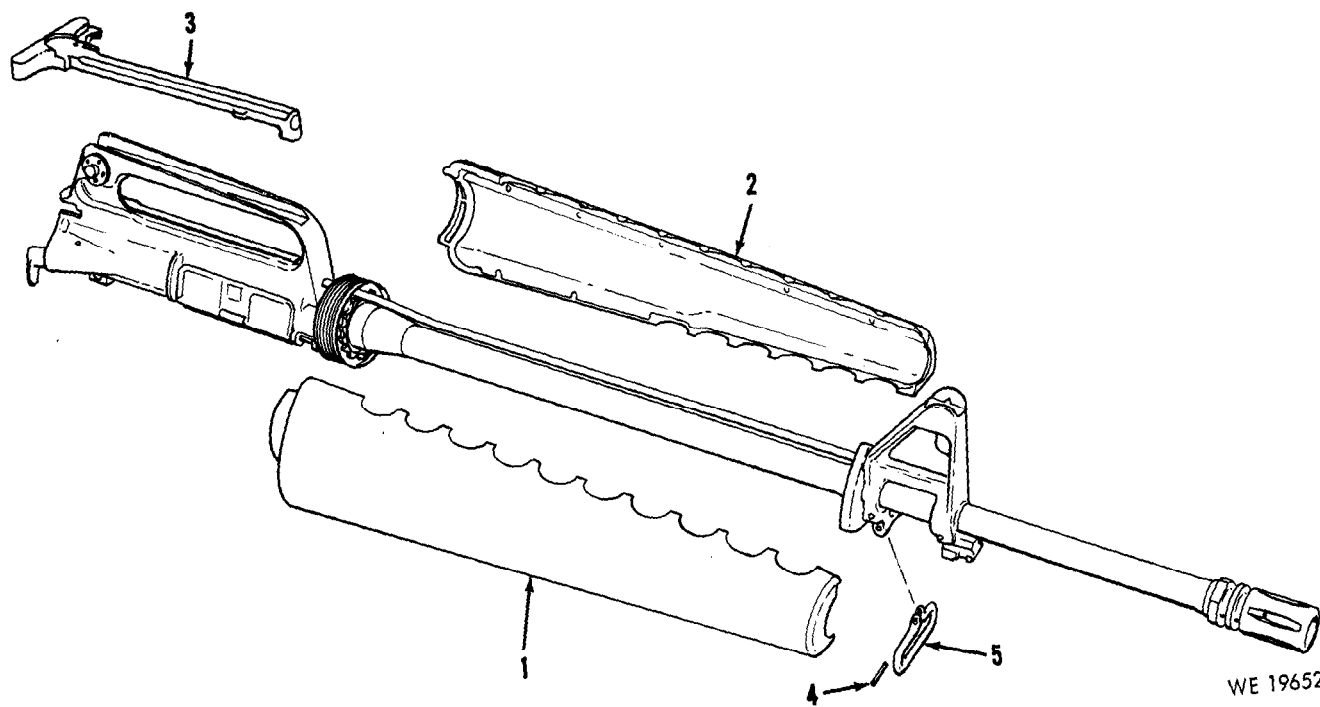
WE 19649

Figure B-1. Basic issue tools and equipment.



WE 137988

Figure B-2. Major groups and assemblies.



WE 19652

Figure B-3. Upper receiver group—partially exploded view.

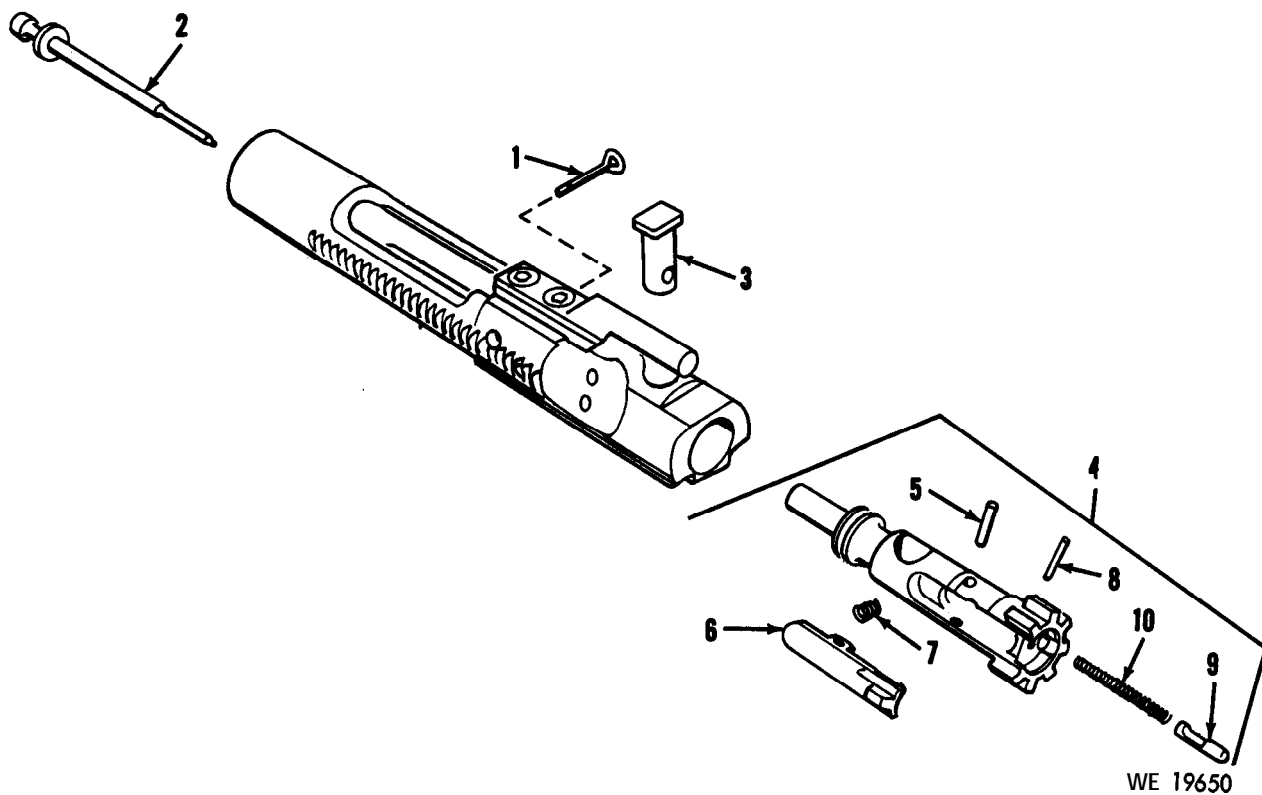


Figure B-4. Bolt carrier group-partially exploded view.

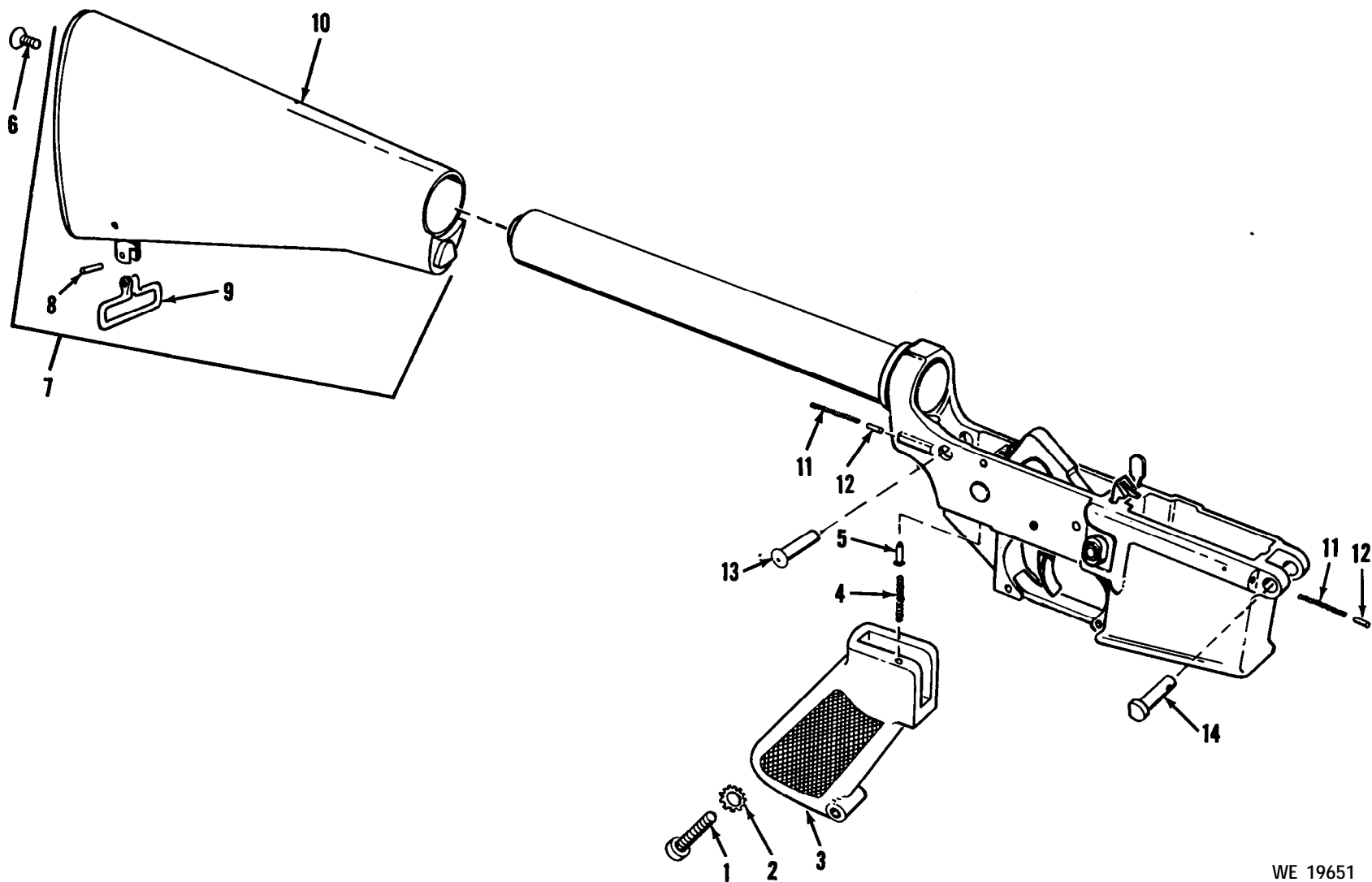


Figure B-5. Lower receiver group-partially exploded view.

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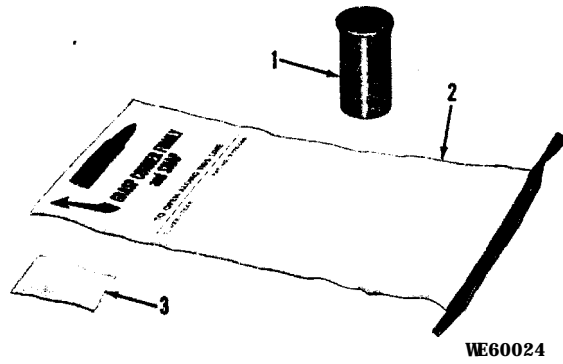
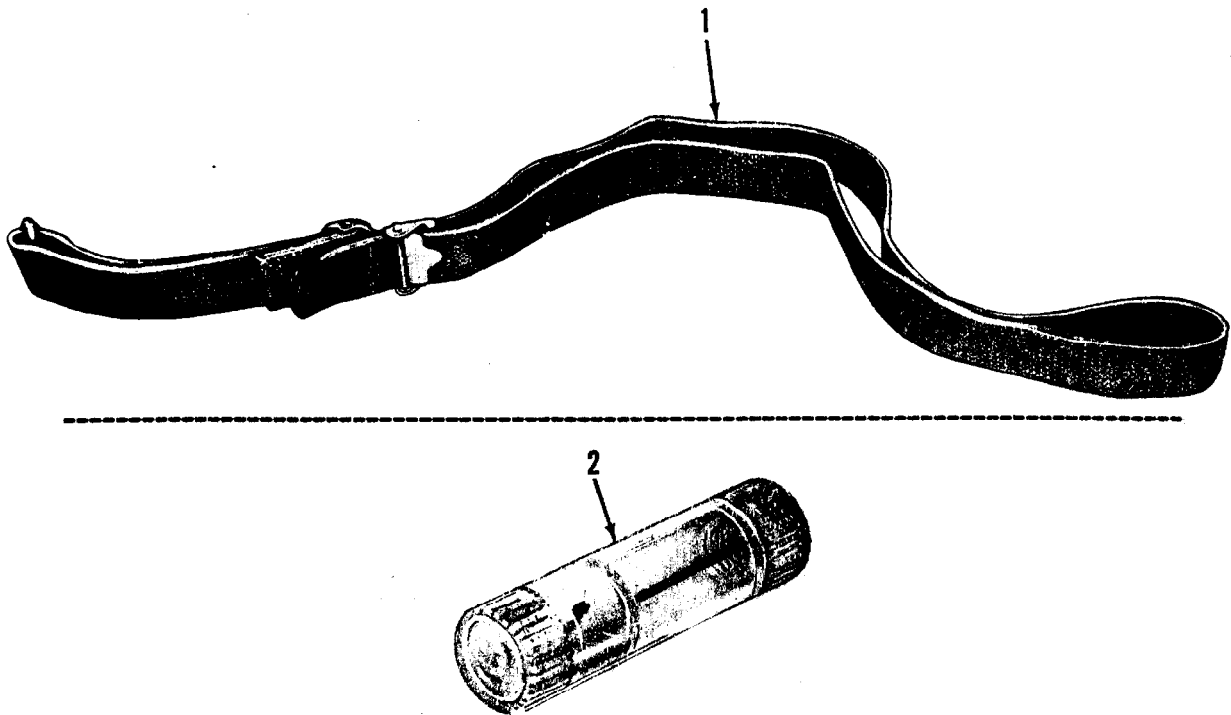


Figure B-6. Tools and equipment.



WE 60025

Figure B-7. Tools and equipment.



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WE 60489

Figure B-8. Rifle cover.

Section II. BASIC ISSUE ITEMS LIST

(1) Source, Maint. And Recov. Code			(2) Federal Stock No.	(3) Description Reference Number & Mfr Code Usable on Cod	(4) Unit Of Meas.	(5) Qty. Inc. In Unit	(6) Qty. Furn. With Equip.	(7) Illustration	
(a) Source	(b) Recov.	(c) Maint.						(a) Fig no.1	(b) tem no.
P	c		1005-056-2237	REPAIR PARTS MAGAZINE ASSEMBLY 20-CARTRIDGE CAPACITY. 62103 (13629)	EA	1	6	B-2	1
P		C	1005-903-1296	ACCESSORIES, TOOLS AND EQUIPMENT BRUSH, CLEANING, SMALL ARMS: BORE 11686340 (19205)	EA		1	B-1	1
P	c		1005-999-1435	BRUSH, CLEANING, SMALL ARMS: CHAMBER. 8432358 (19204)	EA		1	B-1	2
P	c		1005-781-9564	CASE, MAINTENANCE EQUIPMENT, SMALL ARMS: Z-Z-282 (81337)	EA		1	B-1	7
P	c		1005-089-3994	ROD, CLEANING, SMALL ARMS: M11E3 8436777 (19204)	EA		1	B-1	3
P	c		1005-654-4058	SLING, SMALL ARMS: M1 6544058 (19204)	EA		1	B-1	6

Section III. MAINTENANCE AND OPERATING SUPPLIES

(1) component Application	(2) Federal Stock Number	(3) Description	(4) Qty. Required For Initial Operation	(5) Qty. Required For 8 Hours Operation	(6) Notes
	1005-912-4248	SWAB SMALL ARMS CLEANING: 11686408	*		

Section IV. PRESCRIBED LOAD ALLOWANCE

(1) Federal Stock No.	(2) Description	(3) 15-Day Organizational Maint. Allowance			
		(a) 1-5	(b) 6-20	(c) 21-50	(d) 1-100
	RIFLES, 5.56-MM , M16 AND M16A1				
	REPAIR PARTS				
1005-056-2237	MAGAZINE ASSEMBLY:	2	3	8	16
1005-992-6655	SPRING, DETENT, TAKE DOWN PIN: _		—		2
1005-992-6657	SCREW, BUTT CAP:			—	2
1005-992-7290	PIN, EXTRACTOR:		—		2
5315-999-1509	PIN, FIRING PIN RETAINING: _				2
	TOOLS AND EQUIPMENT				
1005-052-6942	BAG, PROTECTIVE, CARTRIDGE MAGAZINE: (500 PER BOX) .			2	2
1005-089-3994	ROD, CLEANING, SMALL ARMS: M16E3 . _			2	2
1005-654-4058	SLING, SMALL ARMS: M1 _	—			2
5340-880-7666	CAP, PROTECTIVE, DUST AND MOISTURE SEAL: MUZZLE _		20	30	50
1005-903-1296	BRUSH, CLEANING, SMALL ARMS: BORE		2	2	3
1005-912-4248	SWAB, SMALL ARMS CLEANING: 5.56-MM (1000 PER PACKAGE),		2	3	5
1005-999-1435	BRUSH, CLEANING, SMALL ARMS : CHAMBER		2	2	3

Section V. REPAIR PARTS LIST

(1) Source Maint. and Recov. code			(2)	(8)	(4)	(5)	(6) 16 Day Organizational Maint. Allowance				(7) Illustration	
(A)	(B)	(C)	Federal Stock No.	Description	Unit of Meas.	Qty Inc In Unit	(A)	(B)	(C)	(D)	(A)	(B)
Source	Maint.	Recov.		Reference Number & Mfr Code			1-5	6-20	21-50	51-100	Figure No.	Item No.
P	c	.	1005-056-2237	REPAIR PARTS FOR: RIFLES 5.56-MM, M16 AND M16A1 MAJOR GROUPS AND ASSEMBLIES MAGAZINE ASSEMBLY: 20-CARTRIDGE CAPACITY ----- 61203 (13629) UPPER RECEIVER GROUP ----- BOLT CARRIER GROUP ----- LOWER RECEIVER GROUP ----- UPPER RECEIVER GROUP	EA	1	2	3	8	16	B-2	1
						1					B-2	2
						1					B-2	3
						1					B-2	4
P	0	--	1005-056-2252	GUARD, HAND GUN: R.H. BLACK ----- 62198 (13629)	EA	1	*	*	*	*	B-3	1
P	0	--	1005-056-2251	GUARD, HAND GUN: L.H. BLACK ----- 62196 (13629)	EA	1	*	*	*	*	B-3	2
P	0	--	1005-017-9546	HANDLE, CHARGING: ----- 62290 (13629)	EA	1	*	*	*	*	B-3	3
P	0	--	5315-058-6078	PIN, SPRING: TUBULAR, SLOTTED, S, PHOS-CTD, 1/8 NOM DIA, 7/16 LG. MS 16562-126 (96906)	EA	1	*	*	*	*	B-3	4
P	0	--	1005-017-9643	SWIVEL, GUN SLING: ----- 61563 (13629) BOLT CARRIER GROUP	EA	1	*	*	*	*	B-3	5
P	0	--	63x-999-1509	PIN, FIRING PIN RETAINING: 62335 (13629)	EA	1	*	*	*	2	B-4	1
P	0	--	1005-017-9547	PIN, FIRING: ----- 62294 (13629)	EA	1	*	*	*	*	B-4	2
P	0	--	1005-992-7294	PIN, BOLT CAM: ----- 61704 (13629)	EA	1	*	*	*	*	B-4	3
P	0	--	1005-992-7290	PIN, EXTRACTOR: ----- 61563 (13629)	EA	1	*	*	*	2	B-4	5
P	0	--	1005-992-9288	EXTRACTOR, SMALL ARMS CARTRIDGE: ----- 61562 (13629)	EA	1	*	*	*	*	B-4	6
P	0	--	1005-992-7289	SPRING, EXTRACTOR: ----- 61568 (13629)	EA	1	*	*	*	*	B-4	7
P	0	--	5315-514-2358	PIN, SPRING: TUBULAR, SLOTTED, S, PHOS-CTD, 1/16 NOM DIA, 7/16 LG MS 16562-99 (96906)	EA	1	*	*	*	*	B-4	8

(1) Source Maint. and Recov. Code			(2) Federal Stock No.	(3) Description Reference Number & Mfr Code Usable on Code	(4) Unit of Meas.	(5) Qty. Inc. In Unit	(6) 15 Day Organizational Maint. Allowance				(7) Illustration	
(A) Source	(B) Maint.	(C) Recov.					(A) 1-5	(B) 6-20	(C) 21-50	(D) L-100	(A) Figure No.	(B) Item No.
P	O		1005-992-7291	EJECTOR, SMALL ARMS CARTRIDGE: 51564 (13629)	EA	1	*	*	*	*	B-4	9
P	O		1005-992-7292	SPRING, EJECTOR AND SEECTOLR LEVER DETENT: ... 51569 (13629)	EA	1	*	*	*	*	B-4	10
P	O		5305-912-7296	LOWER RECEIVER GROUP SCREW, MACHINE: FIL-HD, DLD-F/LKG WIRE, CRES, PASS- FIN, 1/4-28NF-2A, 1-1/8 LG MS 35276284 (96906)	EA	1	*	*	*	*	B-5	1
P	O		5310-527-3634	WASHER, LOCK: FLAT, EXT-TEETH, S, PASS-FIN, 1/4 NOM SIZE, 0.267 MAX ID, 0.510 MAX OD, 0.028 MAX THK. MS 35335-61 (96996)	EA	1	*	*	*	*	B-5	2
P	O		1005-056-2250	GRIP, PISTOL: BLACK 62194 (13629)	EA	1	*	*	*	*	B-5	3
P	O		1005-992-7292	SPRING, EJECTOR AND SELECTOR LEVER DETENT: 61569 (13629)	EA	1	REI	REF	REF	REF	B-5	4
P	O		1005-992-6667	DETENT,SELECTOR LEVER: 61785 (13629)	EA	1	*	*	*	*	B-5	5
P	O		1005-992-6657	SCREW, BUTT CAP: 92601 (13629)	EA	1	*	*	*	2	B-5	6
P	O		1005-017-9549	STOCK ASSEMBLY, MOLDED : W/SWIVEL, BLACK 62302 (13629)	EA	1	*	*	*	*	B-5	7
P	O		5315-058-6078	PIN, SPRING: TUBULAR, SLOTTED, S, PHOS-CTD, 1/8 NOM DIA, 7/16 LG MS 16562-126 (96906)	EA	1	REF	REF	REF	REF	B-5	8
P	O		1005-017-9543	SWIVEL, GUN SLING: 62280 (13629)	EA	1	REF	REF	REF	REF	B-5	9
X1				STOCK: 62204		1					B-5	10
P	O		1005-992-6655	SPRING, DETENT, TAKE DOWN PIN: 61692 (13629)	EA	2	*	*	*	2	B-5	11
P	O		1005-992-6654	DETENT, TAKE DOWN PIN: 61698 (13629)	EA	2	*	*	*	*	B-5	12
P	O		1005-992-6653	PIN, TAKE DOWN: 61655 (13629)	EA	1	*	*	*	*	B-5	13
P	O		1005-017-9537	PIN, PIVOT: 62221 (13629)	EA	1	*	*	*	*	B-5	14

P	0	1005-050-6857	ROD, CLEANING, SMALL ARMS, M11E3 ROD SECTION, CLEANING, SMALL ARMS : ----- 8436776 (19204)	EA	3	*	*	*	*	B-1	4
P	0	1005-937-2250	SWAB HOLDER SECTION, SMALL ARMS CLEANING ROD: .. 11656327 (19206)	EA	1	*	*	*	*	B-1	5

Section VI. SPECIAL TOOLS, TEST AND SUPPORT EQUIPMENT

(1) Source Maint. and Recov. code			(2)	(3)	(4)	(5)	(6) 15 Day Organizational Maint. Allowance				(7) Illustration	
(A) Source	(B) Maint.	(C) Recov.	Federal Stock No.	Description Reference Number & Mfr Code Usable on Code	Unit of Meas.	Qty In Unit	(A) 1-5	(B) MO	(C) 11-50	(D) 51-100	(A) Figure NO.	(B) Item No.
P	O		1005-052-6942	TOOLS AND EQUIPMENT AUTHORIZED FOR UNIT REPLACEMENT BAG, PROTECTIVE, CARTRIDGE MAGAZINE: (500 PER BOX.) 1445068 (19204)	EA		*	*	2	2	B-6	2
P	C		10050893994	ROD, CLEANING, SMALL ARMS: M11E3 ----- 8436777 (19204)	EA		*	*	2	2	B-1	3
P	C		1005-654-4058	SLING, SMALL ARMS: M1 ----- 5544058 (19204)	EA		*	*	*	2	B-1	6
P	C		1005-781-9564	CASE, MAINTENANCE EQUIPMENT, SMALL ARMS: .. z-2-282 (81337)	EA		*	*	*	*	B-1	7
P	O		1005-809-2190	COVER, PROTECTIVE, RIFLE: ----- 3448213 (19204)	EA		*	*	*	*	B-8	---
P	C		1005-903-1296	BRUSH, CLEANING, SMALL ARMS : BORE 11686340 (19205)	EA		*	2	2	3	B-1	1
P	O		1005-912-4248	SWAB, SMALL ARMS CLEANING: 5.56-MM (1000 PER PACKAGE. 11686408 (19205)	EA		*	2	3	5	B-6	3
P	C		1005-992-6676	BIPOD, RIFLE: M3 ----- i2122 (13629)	EA		*	*	*	*	1-3	1
P	C		1005-999-1435	BRUSH, CLEANING, SMALL ARMS: CHAMBER .. 3432358 (19204)	EA		*	2	2	3	B-1	2
P	O		1005-999-2430	CASE, CARRYING: BIPOD AND CLEANING EQUIPMENT z-2-246 (19204)	EA		*	*	*	*	1-3	2
P	O		5340-880-7666	CAP, PROTECTIVE, DUST AND MOISTURE SEAL: MUZZLE 3445067 (19204)	EA		*	20	30	50	B-6	1
P	O		1005-714-9749	CHE FOLLOWING ITEM IS ISSUED OR REQUISITIONED ONLY BY SPECIAL AUTHORIZATION OF THE UNIT COMMANDER SLING, SMALL ARMS: ----- 7149749 (19204)	EA		*	*	*	*	B-7	1

(1) Source Maint. and Recov. Code			(2)	(3)		(4)	(5)	(6) 15 Day Organizational Int. Allowance				(7) Illustration	
(A)	(B)	(C)	Federal Stock No.	Description	Usable on Code	Unit of Meas.	Qty. Inc. In Unit	(A)	(B)	(C)	(D)	(A)	(B)
Source	Maint.	Recov.						Reference Number & Mfr Code	Figure No.	Item No.			
P	0	---	1005-791-3377	TEE FOLLOWING ITEM IS AUTHORIZED AND ISSUED ONLY BY SPECIAL AUTHORIZATION OF TEE UNIT COMMANDER FOR ZERO DEGREE OPERATION CASE, LUBRICANT: ----- 7790995 (19205)	EA	---	*	*	*	*		B-7	2

Section VII. FEDERAL STOCK NUMBER AND REFERENCE
NUMBER CROSS-REFERENCE TO FIGURE AND ITEM NUMBER

<i>Stock Number</i>	<i>Figure Number</i>	<i>Item Number</i>	<i>Reference Number</i>	<i>Mfg Code</i>	<i>Figure Number</i>	<i>Item Number</i>
1005-017-9537	B-6	14	MS 16662-99	96906	B-4	8
1005-017-9543	B-3	6	MS 16662-126	96906	B-3	4
	B-6	9			B-6	8
1005-017-9546	B-3	3	MS 36276-284	96906	B-6	1
1005-017-9547	B-4	2	MS 35385-61	96906	B-6	2
1005-017-9549	B-S	7	2-2-246	19204	1-3	2
1006-060-6367	B-1	4	2-2-282	81337	B-1	7
1005-052-6942	B-6	2	61662	13629	B-4	6
1005-056-2237	B-2	1	61663	13629	B-4	6
1005-056-2250	B-6	3	61664	13629	B-4	9
1006-066-2261	B-3	2	61668	13629	B-4	7
1005-056-2252	B-3	1	61669	13629	B-4	10
1006-039-3994	B-1	3			B-6	4
1005-654-4058	B-1	6	61666	13629	B-6	13
1006-714-9749	B-7	1	61692	13629	B-6	11
1005-781-9564	B-1	7	61698	13629	B-6	12
1005-791-3377	B-1	2	61704	13629	B-4	3
1005-809-2190	B-8	—	61786	13629	B-6	6
1005-903-1296	B-1	1	62103	13629	B-2	1
1005-912-4248	B-6	3	62122	13629	1-3	1
1005-937-2250	B-1	6	62194	13629	B-6	3
1005-992-6653	B-6	13	62196	13629	B-3	2
1005-992-6654	B-6	12	62198	13629	B-3	1
1005-992-6655	B-6	11	62204		B-6	10
1005-992-6657	B-6	6	62221	13629	B-6	14
1005-992-6667	B-6	6	62280	13629	B-3	6
1005-992-6676	1-3	1			B-6	9
1005-992-7289	B-4	7	62290	13629	B-3	3
1005-992-7290	B-4	6	62294	13629	B-4	2
1005-992-7291	B-4	9	62302	13629	B-6	7
1005-992-7292	B-4	10	62336	13629	B-4	1
	B-6	4	92601	13629	B-6	6
1005-992-7294	B-4	3	6644068	19204	B-1	6
1005-992-9288	B-4	6	7149749	19204	B-7	1
1005-999-1435	B-1	2	7790996	19206	B-7	2
1006-999-2430	1-3	2	8432368	19204	B-1	2
5305-912-7296	B-6	1	3436776	19204	B-1	4
5310-527-3634	B-6	2	8436777	19204	B-1	3
5315-058-6078	B-3	4	8446067	19204	B-6	1
	B-3	8	8446068	19204	B-6	2
	B-3	8	3443213	19204	B-8	
6316-614-2363	B-4	8	11686327	19206	B-1	6
5315-999-1509	B-4	1	11686340	19206	B-1	1
5840-880-7666	B-6	1	11636408	19206	B-6	3

APPENDIX C

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

C-1. General

The maintenance allocation chart indicates specific maintenance operations performed at proper maintenance levels. Deviation from maintenance operations allocated in the chart is authorized only upon approval of the Commanding Officer.

C-2. Maintenance Functions

The maintenance allocation chart designates overall responsibility for the maintenance function of an end item or assembly. Maintenance functions will be limited to and defined as follows :

INSPECT	To determine serviceability of an item by comparing its physical, mechanical, and electrical characteristics with established standards.
TEST	To verify serviceability and to detect electrical characteristics with established standards.
SERVICE	To clean, preserve, and lubricate.
ADJUST	To rectify to the extent necessary to bring into proper operating range.
ALIGN	To adjust specified variable elements of an item to bring to optimum performance.
CALIBRATE	To determine the corrections to be made in the readings of instruments or test equipment used in precise measurement. Consists of the comparison of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared with the certified standard.
INSTALL	To set up for use in an operational environment; such as, an emplacement, site, or vehicle.

REPLACE	To replace unserviceable items with serviceable assemblies, sub-assemblies , or parts.
REPAIR	To restore an item to a serviceable condition. This includes, but is not limited to, inspection, cleaning, preserving, adjusting, replacing, welding, riveting, and strengthening.
OVERHAUL	To restore an item to a completely serviceable condition as prescribed by maintenance serviceability standards using the Inspect and Repair Only as Necessary (IROAN) technique.
REBUILD	To restore an item to a standard as nearly as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through complete disassembly of the item, inspection of all parts, or components, repair or replacement of worn or unserviceable elements (items) using original manufacturing tolerances and specifications, and subsequent reassembly of the item.

C-3. Explanation of Format

Purpose and use of the format are as follows :

a. Column a, Group Number. Lists group numbers, to identify components and assemblies.

b. Column b, Component Assembly Nomenclature. Lists the noun names of groups and assemblies on which maintenance is authorized.

c. Column c, Maintenance Functions. Lists the various categories of maintenance to be performed on the weapon.

d. Use of *Codes*. Explanation of the use of codes in maintenance function, column c, is as follows :

<i>Code</i>	<i>Explanation</i>
C	Operator/crew
O	Organizational maintenance
F	Direct support maintenance
H	General support maintenance
D	Depot

e. Column d, *Tools and Equipment*. This column will be used to specify those tools and test equipment required to perform the designated function.

f. Column e, *Remarks*. Self-explanatory.

Note. Columns not utilized are considered not applicable.

Section II. MAINTENANCE ASSIGNMENT

a Group Number	Component Assembly Nomenclature b	Maintenance Function c										Tools and Equipment d	Remarks e
		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul		
	RIFLES, 5.56-MM, M16 AND M16A1												
1	Magazine assembly	C		C			-	C	C	F	-		
2	Upper receiver group	C		C	-		-	C	-	O	-		
3	BoIt carrier group	C		C			-	C	-	O	-		
3a	Hand guard assembly	C		C			-	C	O	-	-		
3b	Barrel and front sight assembly	C	-	C	-		-	F	-	O	-		
3c	Rear sight	C		C			-	F	F	F	-		
4	Lower receiver group	C	-	C			-	F	-	O	-		
4a	Stock assembly	C		C			-	O	O	O	-		
	BIPOD, RIFLE, M3												
1	Bipod	C		C			-	C	O	-	-		
2	Case	C		C			-	-	O	-	-		

By Order of the Secretary of the Army:

Official :

KENNETH G. WICKHAM,
Major General, *United States Army*,
The Adjutant General.

WILLIAM C. WESTMORELAND,
General, *United States Army*,
Chief of Staff.

Distribution :

To be distributed in accordance with DA Form 12-40 (qty rqr block no. 136) organizational maintenance requirements for Rifle, **5.56-MM**, M16 and **M16A1**.

TM 9-1005-249-12, TM 05538A-12, T.O. 11W3-5-5-11-RIFLE, 5.56-MM, M16; RIFLE, 5.56-MM, M16A1 AND BIPOD, RIFLE, M3-1968