

TM 9-1005-314-12&P

**OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL (INCLUDING
REPAIR PARTS AND SPECIAL TOOLS LIST)**

**BLANK FIRING ATTACHMENT
(BFA) M19**

NSN 1005-01-09-7510

**for
CAL. .50 M2 HEAVY BARREL MACHINE GUN**

**This copy is a reprint which includes current
pages from Changes 1 and 2.**

HEADQUARTERS, DEPARTMENT OF THE ARMY

APRIL 1981

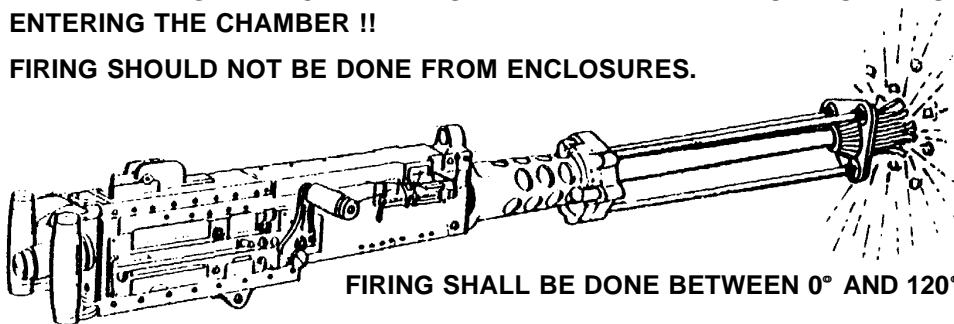
WARNING

APPROVED EAR PLUGS OR HELMET DK 124 WILL BE WORN FOR EAR PROTECTION.

WHEN FIRING IN TRAINING EXERCISES TROOPS MUST BE NO CLOSER THAN 15 METERS DOWN RANGE FROM THE MUZZLE END OF THE MACHINE GUN.

MAKE SURE CARTRIDGE GUIDE IS PROPERLY INSTALLED WHEN USING BLANK FIRING ATTACHMENT TO PREVENT LIVE AMMUNITION FROM ENTERING THE CHAMBER !!

FIRING SHOULD NOT BE DONE FROM ENCLOSURES.



FIRING SHALL BE DONE BETWEEN 0° AND 120° F.

BE SURE LOCKWIRE IS SECURE ON CHAMBER NUTS.

CHANGE

No. 2

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 30 July 1987

OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND
SPECIAL TOOLS LIST)

BLANK FIRING ATTACHMENT (BFA) M19
NSN 1005-01-091-7510
for
CAL. .50 M2 HEAVY BARREL MACHINE GUN

TM 9-1005-314-12&P, 13 April 1981, is changed as follows:

Page 2-0. Chapter 2. Operating Instructions. Add the following to the last sentence after the word gun: "and after firing approximately 300-500 rounds of blank ammo thru the BFA."

Page 2-2. Add the following to the PMCS "During Operation" interval: "Check after approximately 300-500 rounds of blank ammo have been fired, the end rod and clamp nuts to make sure they are evenly and snugly tightened, and that the clamps are firmly installed in the barrel support cooling holes."

Page 2-2. Change Item 3, PMCS, "During Operation," to read: "Check all parts and report any components that have cracks, breaks, or other damage that could effect operation to maintenance personnel."

By Order of the Secretary of the Army:

CARL E. VUONO
General United States Army
Chief of Staff

Official:

R. L. DILWORTH
Brigadier General, United States Army
The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-40, Operator's and Unit Maintenance requirements for Blank Firing Attachment, M19 for Cal .50, M2 Machine Gun.

TM 9-1005-314-12&P
C1

CHANGE

No. 1

**HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 3 June 1986**

**OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND
SPECIAL TOOLS LIST)**

**BLANK FIRING ATTACHMENT (BFA) M19
NSN 1005-01-091-7510
for
CAL. .50 M2 HEAVY BARREL MACHINE GUN**

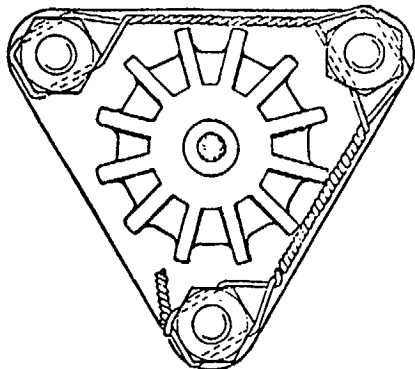
TM 9-1005-314-12&P, 13 April 1981, is changed as follows:

Page ii. Change "Reporting Equipment Impoovment Recommendations (EIR) "to "Reporting Equipment Improvement Recommendations (EIR)".

Page iii. REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS. Change "about" to "about" in third line. Change the address to "Commander, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAS, Rock Island, IL 61299-6000."

Page iv. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR). Change the address to "Commander, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-QAD, Rock Island, IL 61299-6000".

Page 3-4. Figure is superseded as follows



Page A-0. Change "TM 38-750" to "DA PAM 738-750".

Page C-8. Add NSN "5310-01-112-9302" for Item 1.

Page C-8. Add NSN "5310-01-111-2785" for Item 6.

Page C-10. Add NSN "5310-00-059-9264" for Item 13.

Page C-12. Add the following items at the bottom of page:

"5310-01-112-9302	1	1
5310-01-111-2785	1	6
5310-00-059-9264	1	13"

By Order of the Secretary of the Army:

JOHN A. WICKHAM, JR.
General, United States Army

Official:

R. L. DILWORTH
Brigadier General, United States Army
The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-40, Operator's and Organizational Maintenance requirements for Blank Firing Attachment, M19 for Cal .50, M2 Machine Gun.

TM 9-1005-314-12&P

TECHNICAL MANUAL

NO. 9-1005-314-12&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 13 April 1981

**OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND
SPECIAL TOOLS LIST)
BLANK FIRING ATTACHMENT (BFA) M19
NSN 1005-01-091-7510
FOR
CAL. .50 M2 HEAVY BARREL MACHINE GUN
CURRENT AS OF AUGUST 1980**

TABLE OF CONTENTS

Reporting Errors and Recommending Improvements	iii
Reporting Equipment Improvement Recommendations (EIR)	iv
CHAPTER 1. INTRODUCTION	1-1
CHAPTER 2. OPERATING INSTRUCTIONS	2-0
Preventive Maintenance Checks and Services	2-1
Installation of Blank Firing Attachment.....	2-3
Removal of Blank Firing Attachment.....	2-10
CHAPTER 3. MAINTENANCE INSTRUCTIONS	3-0
Lubrication.....	3-0
Troubleshooting.....	3-1
Repair of BFA.....	3-2
CHAPTER 4. AMMUNITION.....	4-1

TABLE OF CONTENTS - Continued

APPENDIX A. REFERENCES	A-0
APPENDIX B. MAINTENANCE ALLOCATION CHART	B-1
APPENDIX C. REPAIR PARTS AND SPECIAL TOOLS LIST	C-0
APPENDIX D. EXPENDABLE SUPPLIES AND MATERIALS LIST.....	D-0

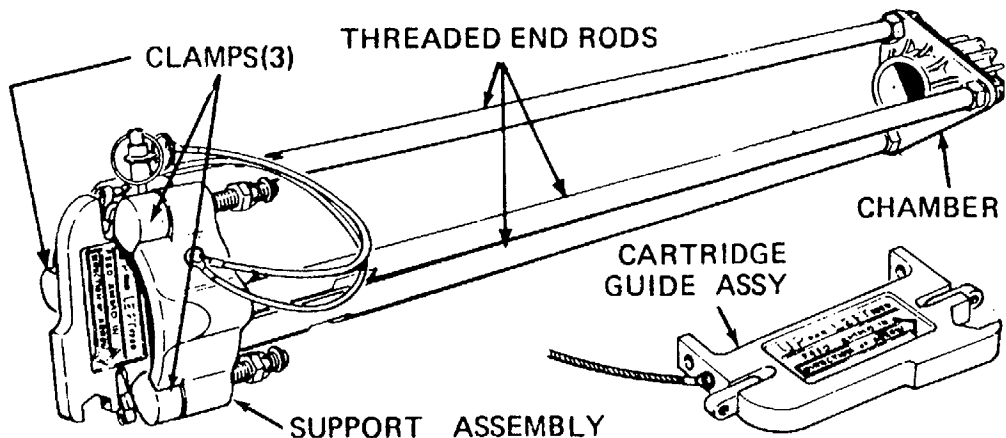
REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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, or DA Form 2028 (Recommended Changes to Publications and Blank Forms), direct to: Commander, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAS, Rock Island, IL 61299-6000. A reply will be furnished to you.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your Blank Firing Attachment needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at Commander, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-QAD, Rock Island, IL 61299-6000. We'll send you a reply.

CHAPTER 1. INTRODUCTION



The Blank Firing Attachment (BFA) clamps on the M2 machine gun to enable blank ammo to be fired and still provide enough back pressure to sustain continuous firing.

The BFA is used for training purposes where the use of live ammo is not possible. It is also used in conjunction with the Multiple Integrated Laser Engagement System (MILES).

CHAPTER 2. OPERATING INSTRUCTIONS

This chapter will tell you how to install the Blank Firing Attachment (BFA). Refer to TM 9-1005-213-10 (Cal. .50 M2 Machine Gun Operator's Manual) for operation of the machine gun and after firing approximately 300-500 rounds of blank ammo thru the BFA.

The PMCS, which follows, is done after you've installed the BFA and before you fire the machine gun.

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

2-1. *General* The PMCS procedures are contained in the table below. Perform the procedures by the numbered sequence after you've installed the BFA and before you fire the machine gun.

2-2. *Item Number Column.* Checks and services are numbered in chronological order regardless of interval. This column shall be used as a source of item numbers for the TM Item Number column on DA Form 2404, Equipment Inspection and Maintenance Worksheet, in recording results of PMCS.

2-3. *Interval Columns.* The columns headed 'B', 'D', and 'A' contain a dot (•) opposite the appropriate check. Thus, if a given check is performed before operation a dot is placed opposite the checks in the 'B' column; if the check is accomplished after operation, the dot is placed in the column headed 'A'; and if the same check is made in two or more periods, a dot is placed in each applicable column.

2-4. *Item to Be Inspected and Procedure Column.* The items listed in this column are divided into groups indicating the portion of the equipment of which they are a part. Under these groupings, the items to be inspected are to be identified by as few words, usually the common name, as will clearly identify the item. This column contains a brief description of the procedure by which the check is to be performed. It contains all the information required to accomplish the checks and services, including appropriate tolerances, adjustment limits, and instrument and gage readings.

2-5. *Equipment is not ready/available if Column.* This column shall contain the criteria that will cause the equipment to be classified as not ready/available because of inability to perform its primary mission.

Preventive Maintenance Checks and Services

B - Before Operation

D - During Operation

A - After Operation

ITEM NO.	INTERVAL			ITEM TO BE INSPECTED PROCEDURE	EQUIPMENT IS NOT READY/ AVAILABLE IF:
	B	D	A		
1	•	•		Check after approximately 300-500 rounds of blank ammo have been fired, the end rod and clamp nuts to make sure they are evenly and snugly tightened, and that the clamps are firmly installed in the barrel support cooling holes. Check that threaded end rod nuts and clamp nut are tight	
2	•			Check that clamps are firmly in place in the barrel support cooling holes.	
3		•		Check all parts and report any components that have cracks, breaks, or other damage that could effect operation to maintenance personnel.	

INSTALLATION OF BFA

WARNING

APPROVED EAR PLUGS OR HELMET DK 124 WILL BE WORN FOR EAR PROTECTION.

FIRING SHALL BE DONE BETWEEN 0° AND 120° F.

WHEN FIRING IN TRAINING EXERCISES TROOPS MUST BE NO CLOSER THAN 15 METERS DOWN RANGE FROM THE MUZZLE END OF THE MACHINE GUN.

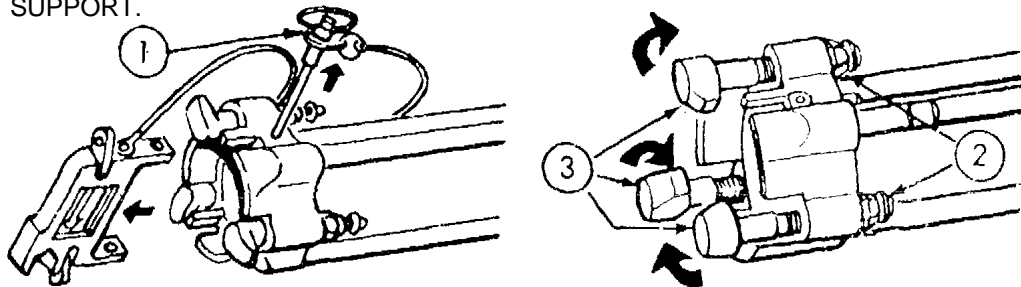
FIRING SHOULD NOT BE DONE FROM ENCLOSURES.

Note: HEADSPACE & TIME MACHINE GUN BEFORE INSTALLING BFA (TM 9-1005-213-10);

- 1 PRESS ON TOP OF QUICK RELEASE PIN (1) AND REMOVE GUIDE.

INSTALLATION -Continued

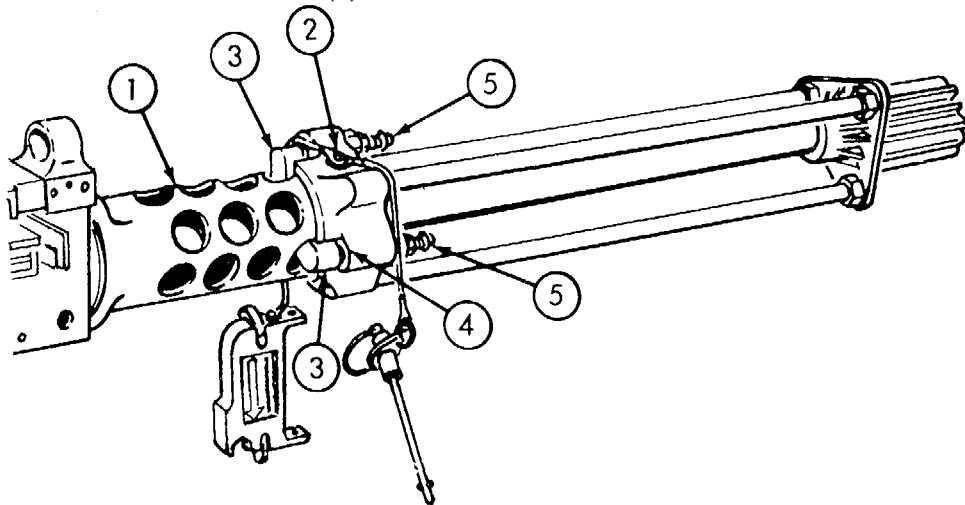
- 2 LOOSEN HEXAGON NUTS (2) USING 9/16" WRENCH OR WRENCH NOTCH IN CARTRIDGE GUIDE ASSEMBLY AND EXTEND CLAMPS (3) REARWARD BEYOND CUTOUTS IN SUPPORT. TURN CLAMPS CLEAR OF LARGE MOUNTING HOLE IN SUPPORT.



- 3 FILE OFF ANY BURRS, ON MACHINE GUN BARREL SUPPORT, THAT MAY PREVENT ASSEMBLY OF BFA TO GUN.
- 4 SLIDE THE END OF THE BFA OVER THE MACHINE GUN BARREL SUPPORT (1). THE MUZZLE END OF THE BARREL FITS INTO THE BFA CHAMBER AS FAR AS POSSIBLE. MAKE SURE

DRIVE SCREW HOLDING CARTRIDGE GUIDE ASSEMBLY AND WIRE ROPE ASSEMBLY (2) IS ON TOP.

- 5 TURN CLAMPS (3) INTO THE FIRST ROW OF COOLING HOLES IN THE BARREL SUPPORT. PUSH CLAMPS FORWARD AND POSITION BETWEEN CUT-OUTS (4). TIGHTEN HEXAGON NUTS (5) LOCKING BFA IN PLACE.



INSTALLATION - Continued

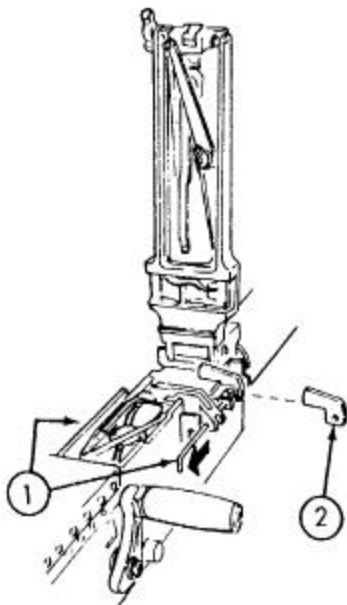
WARNING

Make sure cartridge guide assembly is properly installed in feedway when using blank firing attachment to prevent live ammunition from entering the chamber.

INSTALLATION OF GUIDE

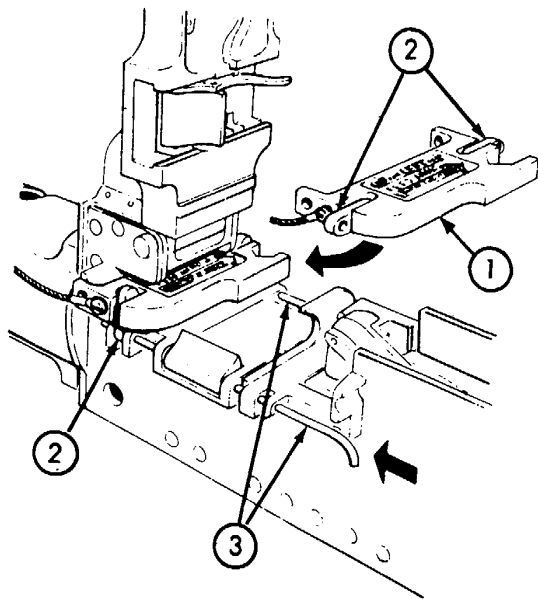
- 1 LIFT COVER OF M2 AND SLIDE BACK BOTH BELT HOLDING PAWL PINS (1) AND REMOVE FRONT CARTRIDGE STOP (2) AND RETAIN.

Note
Put front cartridge stop in armor tool box.



INSTALLATION - Continued

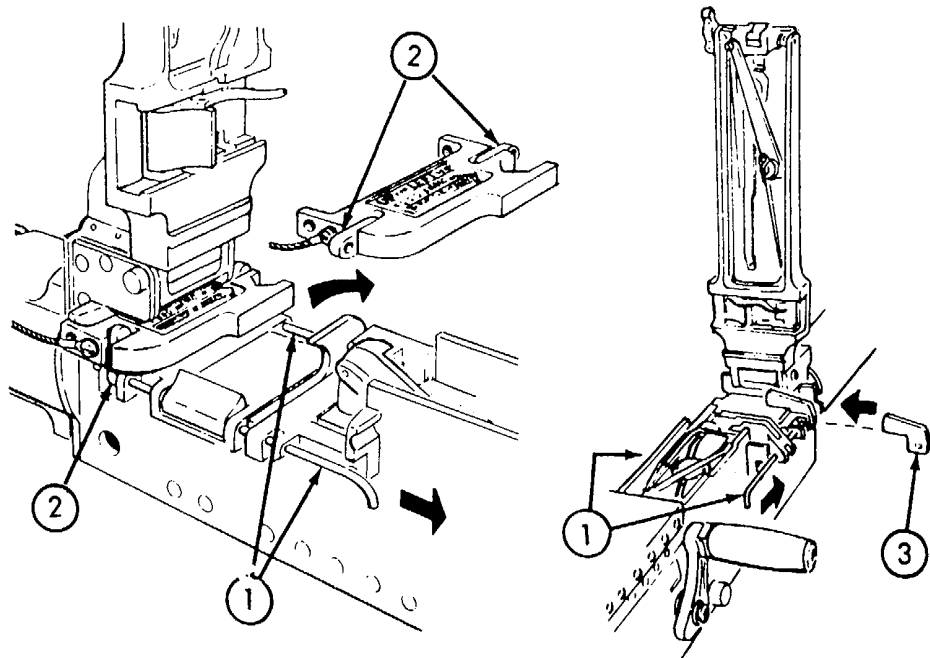
- 2** PLACE CARTRIDGE GUIDE ASSEMBLY (1) IN FEEDWAY WITH FEED SLOPE (NARROW END) OF CARTRIDGE GUIDE ASSEMBLY FACING AMMO FEED SIDE OF WEAPON.
- 3** POSITION GUIDE LINKS (2) IN FRONT SLOTS ON THE SIDES OF THE RECEIVER. LOCK CARTRIDGE GUIDE ASSEMBLY (1) IN PLACE BY SLIDING TWO BELT HOLDING PAWL PINS (3) THRU THE HOLES IN THE GUIDE LINKS.



REMOVAL OF BLANK FIRING ATTACHMENT

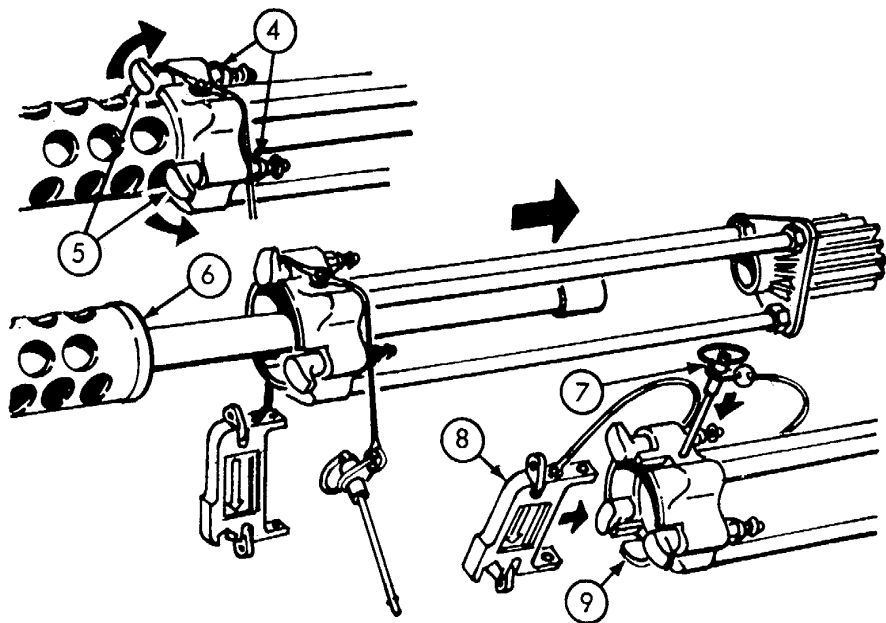
REMOVAL OF CARTRIDGE GUIDE ASSEMBLY

- 1** LIFT COVER
- 2** SLIDE BELT HOLDING PAWL PINS (1) BACK AND REMOVE CARTRIDGE GUIDE ASSEMBLY (2).
- 3** INSTALL FRONT CARTRIDGE STOP (3) AND SLIDE BELT HOLDING PINS (1) FORWARD.
- 4** CLOSE COVER.



REMOVAL-Continued

- 5 LOOSEN CLAMP NUTS (4) USING 9/16" WRENCH OR NOTCH IN CARTRIDGE GUIDE ASSEMBLY. SLIDE CLAMPS (5) REARWARD AND TURN TO DISENGAGE CLAMPS FROM COOLING HOLES IN THE BARREL SUPPORT.
- 6 SLIDE BFA FORWARD OVER BARREL SUPPORT (6) AND BARREL.
- 7 INSTALL CARTRIDGE GUIDE ASSEMBLY INTO SUPPORT AND PRESS IN ON TOP OF QUICK RELEASE PIN (7) AND INSERT PIN INTO HOLES IN GUIDE (8) AND SUPPORT (9).

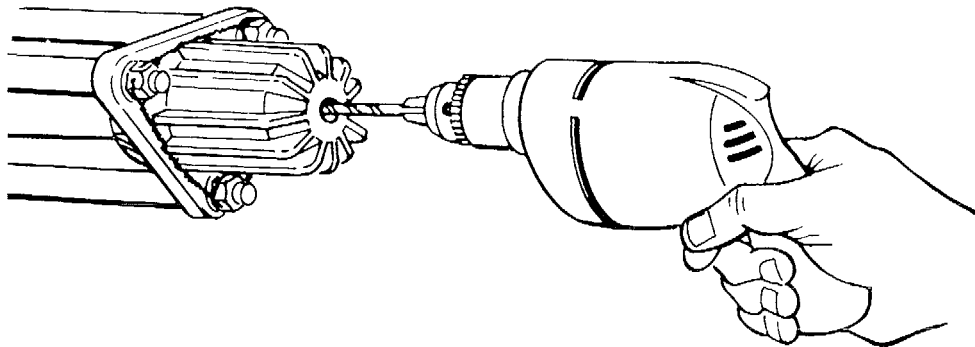


CHAPTER 3. MAINTENANCE INSTRUCTIONS

LUBRICATION

BLANK FIRING ATTACHMENT (BFA)

After every exercise (800 -1000 rounds of M1A1 blank ammo has been fired thru BFA), drill out hole at front end of chamber using a standard 1/4 inch diameter drill bit.



LUBRICATION-Continued

After firing, clean exterior surfaces with a rag dampened in rifle bore cleaner (RBC). Wipe dry and lightly oil with LSA. DO NOT lube either the end of the gun barrel or the inside of the BFA chamber.

M2 MACHINE GUN

Gun should be fully cleaned and oiled after every exercise (800-1000 rounds fired). Moving parts in the receiver and cover should be wiped down and a light coating of LSA applied.

TROUBLESHOOTING

There are no troubleshooting procedures provided in this TM. The BFA is an extremely simple device. When a component fails, you'll know which one it is without having to follow a troubleshooting logic tree.

MAINTENANCE PROCEDURES

REPAIR OF BFA

1. Screwdriver
2. Wrench, Box or open end 3/4" (Chamber Nuts)
3. Wrench, open end 1/2" (Threaded rod end)
4. Hammer, Ball-Peen, 4 oz.
5. Pliers, (Retaining Ring)
6. Wrench, open end or box 9/16" (Clamp Nuts)
7. Drill, Electric, 3/8" Capacity
8. Bit, Drill, 1/4" (Cleaning Chamber Orifice)
9. Pliers, lockwire

The required tools needed to maintain and repair the M19 BFA are listed above and can be found in the following Tool Kits:

SC 4933-95-CL-A07 Tool Kit, Small Arms: Repairman (NSN 4933-00-357-7770)

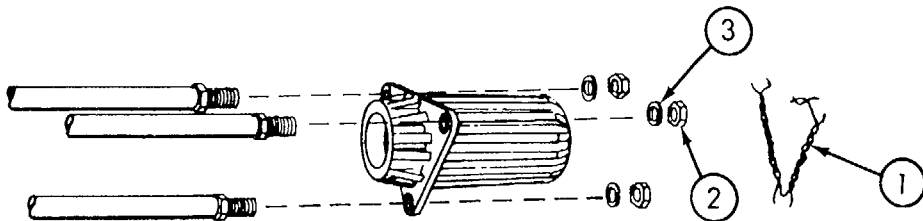
SC 4933-95-CL-A11 Tool Kit, Small Arms: Field Maintenance Post, Camp and Station
(NSN 493340-754-0664)

Basic Issue Items in the Tank

Repair of the BFA consists only of replacing damaged components.

REPLACEMENT OF CHAMBER

- 1 REMOVE WIRE, NONELECTRICAL (LOCK WIRE) (1) FROM THE NUTS (2) ON THREADED END RODS.
- 2 REMOVE NUTS (2) AND LOCK WASHERS (3).
- 3 REMOVE CHAMBER AND REPLACE WITH NEW CHAMBER.
- 4 REINSTALL EXISTING NUTS (2) WITH NEW LOCK WASHERS (3) ON THREADED END RODS.

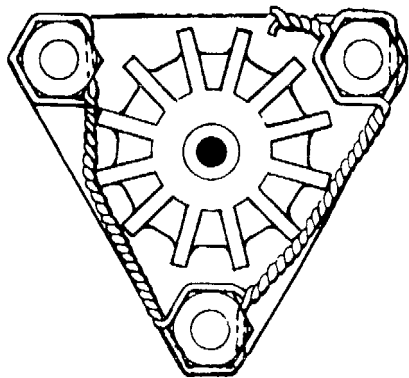


REPAIR-Continued

- 5 ALTERNATELY TIGHTEN EACH NUT 1/2 TURN UNTIL FULLY TIGHTENED. VISUALLY CHECK TO SEE THAT THREADED END RODS REMAIN PARALLEL.
- 6 INSTALL NEW LOCKWIRE (MS 20995NC51).

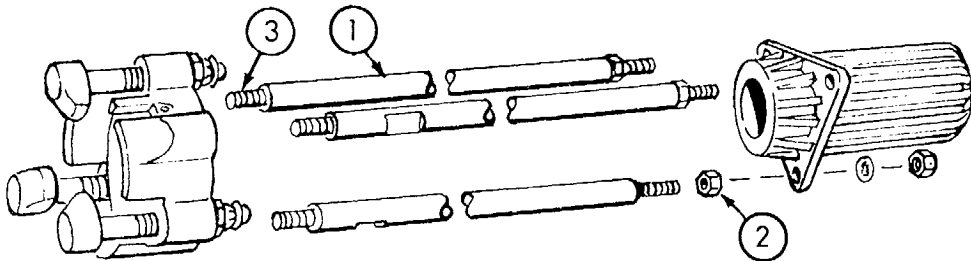
WARNING

Be sure lockwire is secure on chamber nuts.



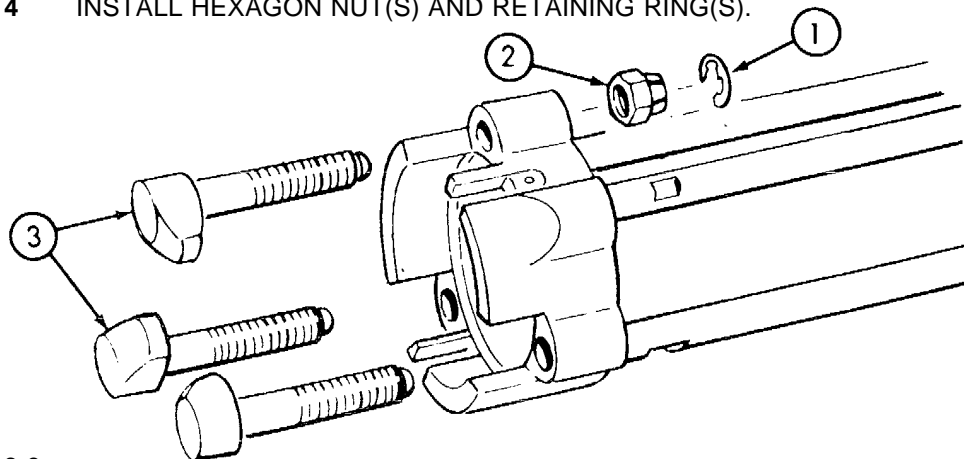
REPLACEMENT OF THREADED END RODS

- 1 REMOVE CHAMBER
- 2 REMOVE THREADED END RODS (1) FROM SUPPORT.
- 3 REMOVE HEXAGON NUTS (2) FROM OLD THREADED END ROD AND ASSEMBLE TO NEW ROD WITH SEALING COMPOUND, GRADE A-MIL-S-22473.
- 4 APPLY SEALING COMPOUND TO THREADS (3) OF REPLACEMENT ROD BEFORE INSTALLING IN SUPPORT. INSTALL AND TIGHTEN SECURELY.
- 5 REINSTALL CHAMBER AND LOCKWIRE (MS 20995NC51).

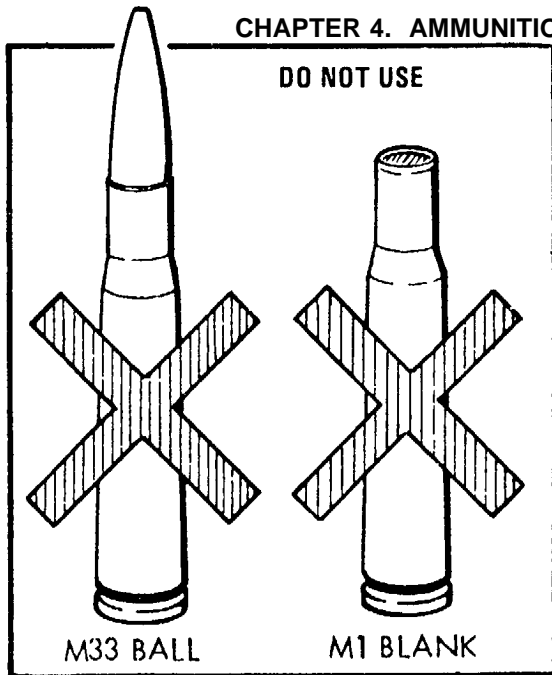


REPAIR-Continued**REPLACING SUPPORT CLAMP(S)**

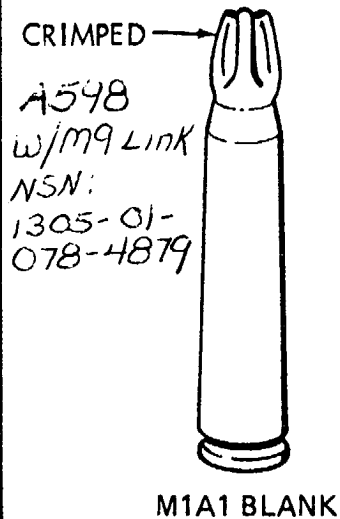
- 1 REMOVE RETAINING RING(S)(1) AND HEXAGON NUT(S)(2).
- 2 REMOVE DAMAGED CLAMP(S)(3).
- 3 INSTALL NEW CLAMP(S).
- 4 INSTALL HEXAGON NUT(S) AND RETAINING RING(S).



CHAPTER 4. AMMUNITION



USE THIS AMMO ONLY



APPENDIX A. REFERENCES

A-1. Scope

This appendix lists all forms and technical manuals referenced in this manual.

A-2. Forms

Recommended Changes to Publications
and Blank Forms

DA Form 2028

Quality Deficiency Report

SF 368

A-3. Technical Manuals

Operators Machine Gun, Cal. .50
Browning M2, Heavy Barrel, Flexible,
W/E

TM 9-1005-213-10

The Army Maintenance Management
System (TAMMS)

DA PAM 738-750

A-0

APPENDIX B. MAINTENANCE ALLOCATION CHART (MAC)

B-1. General. This appendix provides a general explanation of all maintenance functions authorized at the proper level.

B-2. Maintenance Functions

a. Inspect. To determine the service ability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.

b. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean (includes decontaminate, when required), to preserve, drain, paint, or replenish fuel, lubricants, chemical fluids or gases.

c. Install. The act of emplacing, seating, or fixing into position an item, part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

MAC-Continued

d. Replace. The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

e. Repair. The application of maintenance services or other maintenance actions to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

B-3. Explanation of Columns in the Maintenance Allocation Chart (MAC).

a. Column 1. Group Number, lists functional group code numbers, the purpose of which is to identify components, assemblies, subassemblies and modules with the next higher assembly.

b. Column 2. Component/Assembly, contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. Column 3. Maintenance Function, lists the functions to be performed on the item listed in column 2.

B-2

d. Column 4. Maintenance Category, specifies by the listing of a work time figure in the appropriate subcolumn(s), the category of maintenance authorized to perform the function listed in Column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate work time figures will be shown for each category. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance categories are as follows:

- C.....Operator or crew.
- O.....Organizational maintenance.

MAINTENANCE ALLOCATION CHART

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY	
			C	O
00	M19 BLANK FIRING ATTACHMENT	Inspect	0.1	
		Service	0.2	
		Install	0.2	
		Replace		0.2
		Repair		1.0
01	CARTRIDGE GUIDE ASSEMBLY	Inspect	0.1	
		Service	0.2	
		Install	0.1	
		Replace		0.3
		Repair		0.3

MAINTENANCE ALLOCATION CHART

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY	
			C	O
02	SUPPORT ASSEMBLY	Inspect Service Install Replace Repair	0.1 0.1	1.0 1.0 0.5
	No special tools required.			

APPENDIX C. REPAIR PARTS AND SPECIAL TOOLS LIST

C-1. Scope.

This manual lists spares and repair parts required for performance of organizational maintenance of the Blank Firing Attachment (BFA). It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

C-2. General

This Repair Parts and Special Tools List is divided into the following lists:

a. Repair Parts List. A list of spares and 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. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence.

b. National Stock Number and Part Number Index. A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list in alphameric 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. This index is followed by a cross-reference list of reference designators to figure and item numbers.

C-3. Explanation of Columns.

a. Illustration. This column is divided as follows:

- (1) *Figure Number.* Indicates the figure number of the illustration on which the item is shown.
- (2) *Item Number.* The number used to identify item called out in the illustration.

APPENDIX C. REPAIR PARTS AND SPECIAL TOOLS LIST-Continued*b. Source, Maintenance, and Recoverability (SMR) Codes.*

(1) *Source Code.* Source codes 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.
XA	-Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.

(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:

<i>Code</i>	<i>Application/Explanation</i>
O	- Support item is removed, replaced, used at the organizational level

(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:

<i>Code</i>	<i>Application/Explanation</i>
Z	- Nonrepairable. No repair is authorized.

APPENDIX C. REPAIR PARTS AND SPECIAL TOOLS LIST-Continued

(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:

*Recoverability
Codes*

Definition

- Z - Nonrepairable item. When unserviceable, condemn and dispose at the level indicated in position 3.

c. National Stock Number. Indicates the National stock number assigned to the item and which will be used for requisitioning.

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.

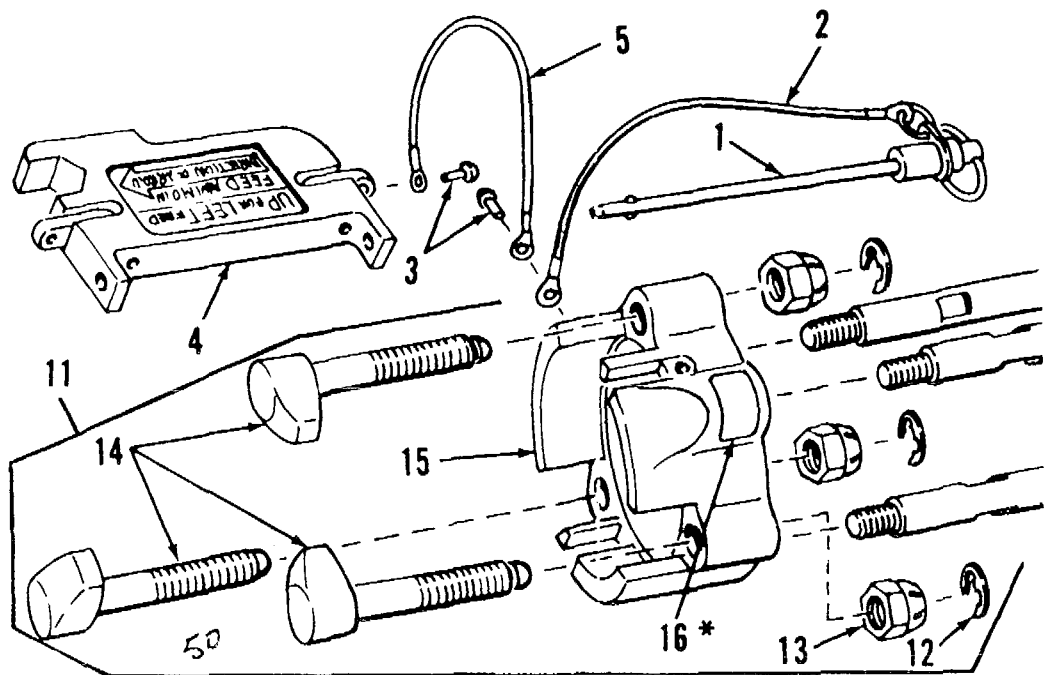
NOTE: When a stock numbered item is requisitioned, the item received may have a different part number than the part being replaced.

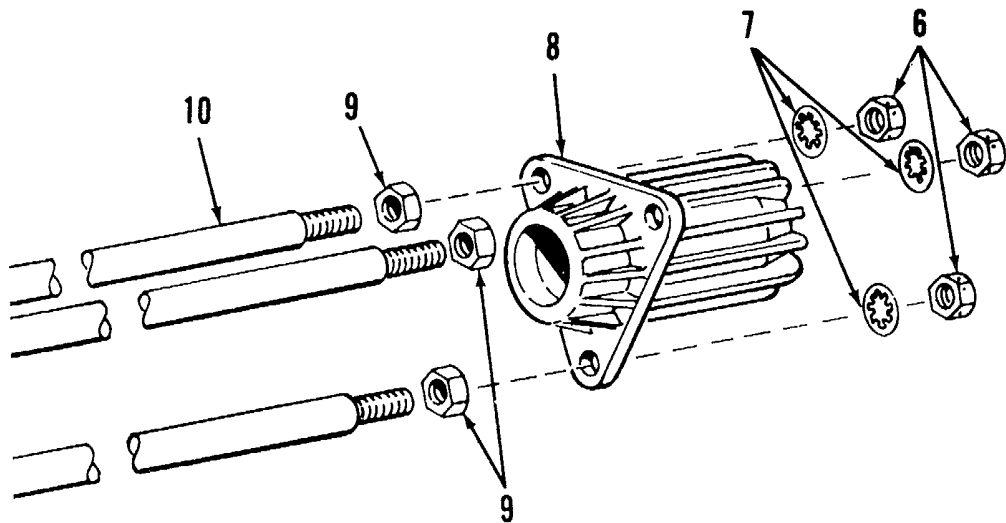
e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. Quantity Incorporated in Unit. 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 no specific quantity is applicable, (e.g., shims, spacers, etc).





* Not part of assembly

Figure 1. Blank Firing Attachment (BFA) M19

(1) ILLUSTRATION		(2)	(3)	(4)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER
			GROUP 00 - M19 BLANK FIRING ATTACHMENT - 9324931 GROUP 01 - CARTRIDGE GUIDE ASSEMBLY GROUP 02- SUPPORT ASSEMBLY	
1	1	PAOZZ	5310-01-112-9302	9329576
1	2	PAOZZ	4010-00-246-0381	9328594-2
1	3	PAOZZ	5305-00-253-5622	MS21318-41
1	4	PAOZZ	1005-01-092-9537	9326868
1	5	PAOZZ	4010-01-096-4476	9328594-1
1	6	PAOZZ	5310-01-111-2785	MS9882-14

(5)	(6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
FSCM	<i>usable on code</i>	U/M	
19200	Pin, Quick Release	EA	1
19200	Wire Rope Assy, (10" lg) -	EA	1
96906	Screw, Drive	EA	2
19200	Guide Assy, Cartridge	EA	1
19200	Wire Rope Assy (13" lg)	EA	1
96906	Nut, Hex	EA	3

(1) ILLUSTRATION		(2)	(3)	(4)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER
1	7	PAOZZ	5310-00-261-7156	MS35333-78
1	8	PAOZZ	1005-01-098-8329	9326857
1	9	PAOZZ	5310-00-113-3757	MS35650-3392
1	10	PAOZZ	5306-01-096-1755	9327080
1	11	XAOZZ		11833399
1	12	PAOZZ	5365-00-900-0982	MS16633-1021
1	13	PAOZZ	5310-00-059-9264	9328593
1	14	PAOZZ	1005-01-095-3500	9326860
1	15	PAOZZ	1005-01-092-9523	9327085
1	16	XAOZZ		11833433

(5) FSCM	(6) DESCRIPTION <i>usable on code</i>	(7) U/M	(8) QTY INC IN UNIT
96906	Washer, Lock	EA	3
19200	Chamber	EA	1
96906	Nut, Plain Hex	EA	3
19200	Rod, Threaded End	EA	3
19200	Support Assembly	EA	1
96906	Ring, Retaining	EA	3
19200	Nut, Hex	EA	3
19200	Clamp, Support	EA	3
19200	Support	EA	1
19200	Plate, Identification	EA	1

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

Stock Number	Figure No.	Item No.
5310-00-113-3757	1	9
4010-00-246-0381	1	2
5305-00-253-5622	1	3
5310-00-261-7156	1	7
5365-00-900-0982	1	12
1005-01-092-9523	1	15
1005-01-092-9537	1	4
1005-01-095-3500	1	14
5306-01-096-1755	1	10
4010-01-096-4476	1	5
1005-01-098-6329	1	8
5310-01-112-9302	1	1
5310-01-111-2785	1	6
5310-00-059-9264	1	13

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

Part Number	FSCM	Figure No.	Item No.
MS16633-1021	96906	1	12
MS21318-41	96906	1	3
MS35333-78	96906	1	7
MS35650-3392	96906	1	9
MS9882-14	96906	1	6
11833399	19200	1	11
11833433	19200	1	16
9326857	19200	1	8
9326860	19200	1	14
9326868	19200	1	4
9327080	19200	1	10
9327085	19200	1	15
9328593	19200	1	13
9328594-1	19200	1	5
9328594-2	19200	1	2
9329576	19200	1	1

APPENDIX D. EXPENDABLE SUPPLIES AND MATERIALS LIST

D-1. Scope

This appendix lists expendable supplies and materials you will need to operate and maintain the Blank Firing Attachment (BFA). These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

D-2. Explanation of Columns

a. Column 1 -Item number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use cleaning compound, item 5, App. D").

b. Column 2 -Level. This column identifies the lowest level of maintenance that requires the listed item.

C - Operator/Crew

O -Organizational Maintenance

D-0

c. Column 3 -National Stock Number. This is the National stock number assigned to the item; use it to request or requisition the item.

d. Column 4 -Description. Indicated the Federal item name and, if required, a description to identify the item. The last line for each item indicates the Federal Supply Code for Manufacturer (FSCM) in parentheses followed by the part number.

e. Column 5 -Unit of Measure (U/M). Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

(1) ITEM NO.	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1	C	6850-00-224-6656	CLEANING COMPOUND, SOLVENT: rifle bore cleaner (RBC) MIL-C-372 (81349) 2 oz can	OZ
2	C	6850-00-224-6657	6 oz can	OZ
3	C	6850-00-224-6663	1 gal can	GL
4	C	9150-00-889-3522	LUBRICATING OIL, WEAPONS: semi-fluid, (LSA) MIL-L-46000 (81349) 4 oz bottle	OZ
5	C	7920-00-205-1711	RAG, WIPING cotton DDD-R-30 (81348) 50 lb. bundle	LB

(1) ITEM NO.	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
6	0	8030-00-822-3505	SEALING COMPOUND Grade A MIL-S-22473 2 cc tube	TU
7	0	9525-00-618-5462	WIRE, NONELECTRICAL MS 20995 NC51	LB

By Order of the Secretary of the Army:

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

Official:

J. C. PENNINGTON
Major General, United States Army
The Adjutant General

Distribution

To be distributed in accordance with DA Form 12-40, Organizational Maintenance requirements for Gun, Machine.

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