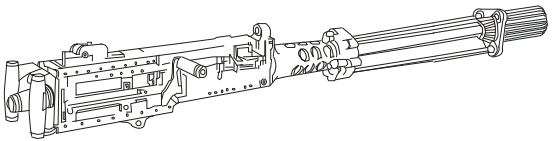
***TM 9-1005-314-13&P**

# OPERATOR AND FIELD 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



**HEADQUARTERS, DEPARTMENT OF THE ARMY,**
**Washington D.C., 19 February 2010**

* This publication supersedes TM 9-1005-314-12&P, dated 13 April 1981

## WARNING SUMMARY

This warning summary contains general safety warning and hazardous materials warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death to personnel. Also included are explanations of safety and hazardous materials icons used with the Technical Manual.

## FIRST AID

For first aid information, refer to FM 4-25.22, First Aid.

## EXPLANATION OF SAFETY WARNING ICONS

**EAR PROTECTION -** headphones over ears shows that noise level will harm ears.

**WEAPON FIRE -** accidental discharge of a weapon could penetrate the body causing serious injury or death

## GENERAL SAFETY WARNINGS DESCRIPTIONS

**WARNING**

When firing in training exercises troops must be no closer than 15 meters down range from the muzzle end of the machine gun to avoid injury to personnel.

Make sure cartridge guide is properly installed when using Blank Firing Attachment to prevent live ammunition from entering the chamber. Death or injury to personnel could occur.

Firing should not be done from enclosures to avoid injury to personnel.

**WARNING**

Approved ear plugs or helmet will be worn for ear protection to avoid injury.

**DEFINITION OF THE FOLLOWING ALERTS THROUGHOUT THIS MANUAL**

**WARNING -** Identifies a clear danger to the person doing that procedure.

**CAUTION -** Identifies risk of damage to the equipment

**NOTE -** Used to highlight essential procedures, conditions, statements, or convey important instructional data to the user.

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## LIST OF EFFECTIVE PAGES

Dates of issue for original and change pages are:

Original: 19 February 2010

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| 0001 00-1 thru -3 | 0 | 0009 00-1 thru -16 | 0 |
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TECHNICAL MANUAL

TM 9-1005-314-13&P

ARMY TM 9-1005-314-13&P
HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., *19 February 2010*

# OPERATOR AND FIELD 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

*This publication supersedes TM 9-1005-314-12&P, dated 13 April 1981

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this publication. If you find any errors, or if you would like to recommend any improvements to the procedures in this publication, please let us know. The preferred method is to submit your DA Form 2028 (Recommended Changes to Publications and Blank Forms) through the Internet, on the Army Electronic Product Support (AEPS) website. The Internet address is https://aeps.ria.army.mil. The DA Form 2028 is located under the Public Applications section in the AEPS Public Home Page. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, e-mail, or fax your comments or DA Form 2028 directly to the U.S. Army TACOM Life Cycle Management Command. The postal mail address is U.S. Army TACOM Life Cycle Management Command, ATTN: AMSTA-LCL-MPP / TECH PUBS, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The e-mail address is tacomlcmc.daform2028@us.army.mil. The fax number is DSN 793-0726 or Commercial (309) 782-0726.

**TABLE OF CONTENTS**

**Work Package No.**

## HOW TO USE THIS MANUAL

### GENERAL

The safest, easiest, and best way to operate and maintain the Blank Firing Attachment is to use this manual. Learning to use the TM is as easy as reading through the next few pages of this section. Knowing what is in this manual and how to use it will save you time and work and will help you avoid exposing yourself to unnecessary hazards while performing your job.

### INDEXES

This manual is organized to help you quickly find the information needed.

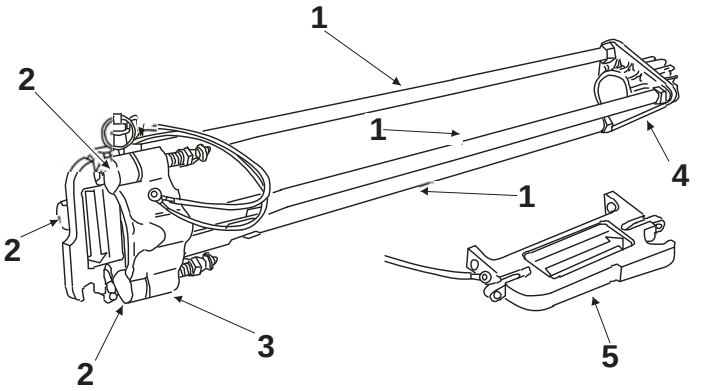
There are two useful indexes:

a. **Table of Contents.** The Table of Contents lists, in the order of presentation, all chapters, sections, appendixes and alphabetical index and gives the page numbers where they begin.

b. **Alphabetical Index.** This index, located in the back, is an extensive subject index for the entire manual. The page numbers following each entry tell where in the manual to find a particular subject.

# CHAPTER 1

# GENERAL INFORMATION




Legend:
1. Threaded End Rods
2. Clamp
3. Support Assembly
4. Chamber
5. Cartridge Guide Assembly

**EQUIPMENT DESCRIPTION**.

The Blank Firing Attachment (BFA) clamps on the M2 Machine Gun to enable blank ammunition 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 ammunition is not possible. It is also used in conjunction with the Multiple Laser Engagement System (MILES).

**MAINTENANCE FORMS, RECORDS, AND REPORTS.**

Department of Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual.

**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 use what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Product Quality Deficiency Report (PQDR)). Mail to the address specified in DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual, or as specified by the acquiring activity. We will send you a reply.

**CORROSION PREVENTION AND CONTROL.**

If a corrosion problem is identified, it can be reported using SF 368, Product Quality Deficiency Report. Use of key words such as “corrosion”, “rust”, “deterioration”, or “cracking” will assure that the information is identified as a CPC problem. The form should be submitted to: Commander, US Army Armament, Research Development and Engineering Center, ATTN: AMSTA-AR-QAW, 1 Rock Island Arsenal, Rock Island, IL 61299-7300.

**DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE**

Refer to TM 750-244-7, for procedures concerning destruction of material to prevent enemy use.

**END OF WORK PACKAGE**

# CHAPTER 2

# OPERATOR INSTRUCTIONS

This work package tells 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 300-500 rounds of blank ammunition thru the BFA.

**WARNING**

Approved ear plugs or helmet will be worn for ear protection to avoid injury.

**WARNING**

When firing in training exercises troops must be no closer than 15 meters down range from the muzzle end of the machine gun to avoid injury to personnel.

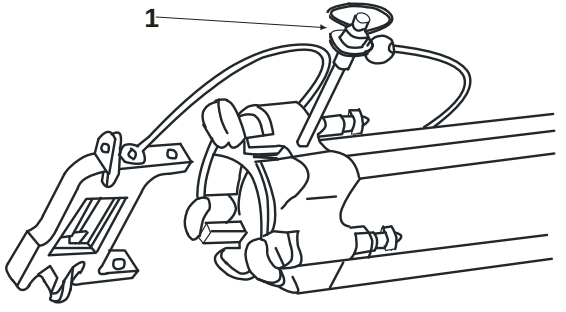
Firing should not be done from enclosures to avoid injury to personnel.

**NOTE**

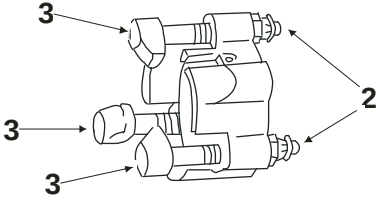
Perform Headspace and Timing procedure before installing the BFA. Refer to TM 9-1005-213-10.

## INSTALLATION OF BLANK FIRING ATTACHMENT

1. Press on top of retaining pin (1) and remove guide.

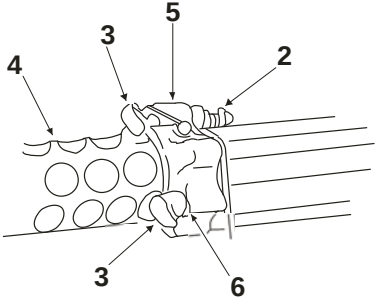


2. Loosen hexagon nuts (2) using 9/16" wrench or wrench notch in cartridge guide assembly and extend clamps (3) rearward beyond cutouts in support. Turn clamps clear of large mounting hole in support.




3. File off any burrs on machine gun barrel support that may prevent assembly of BFA to weapon.

4. Slide the end of the BFA over the machine gun barrel support (4). 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 (5) is on top.



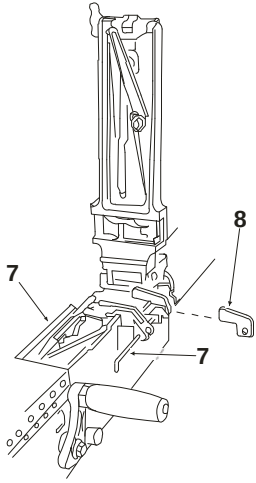

5. Turn clamps (3) into the first row of cooling holes in the barrel support. Push clamps forward and position between cut-outs (6). Tighten hexagon nuts (2) locking BFA in place.

**WARNING**

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

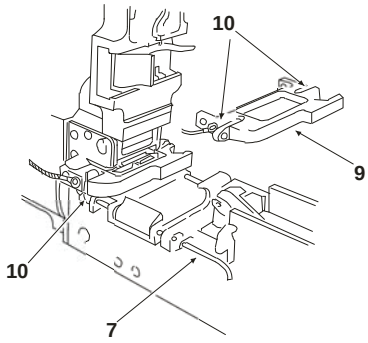
**INSTALLATION OF GUIDE**

1. Lift top cover of M2, remove lock pins and slide back both belt holding pawl pins (7) and remove front cartridge stop (8) and retain.



2. Place cartridge guide assembly (9) in feedway with feed slope (narrow end) of cartridge guide assembly facing ammunition feed side of weapon.

3. Position guide links (10) in front slots on the sides of the receiver, lock cartridge guide assembly (9) in place by sliding two belt holding pawl pins (7) thru the holes in the guide links.



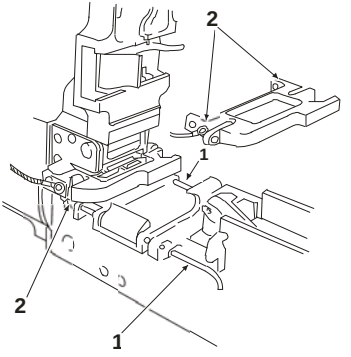

**END OF WORK PACKAGE**

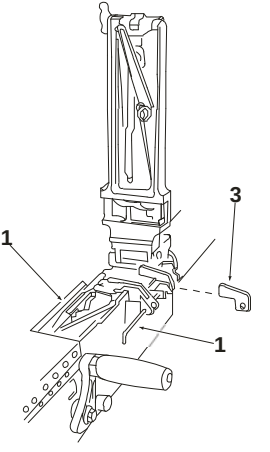
1. Lift top cover.

2. Remove lock pins and slide belt holding pawl pins (1) back and remove cartridge guide assembly (2).

3. Install front cartridge stop (3) and slide belt holding pawls pins (1) forward.

4. Close top cover.

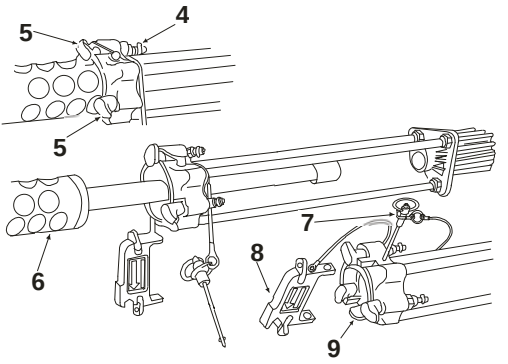


5. Loosen clamp nuts (4) using 9/16 inch wrench or notch in cartridge guide assembly. Slide clamps (5) rearward and turn to disengage clamps from cooling holes in the barrel support (6).

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).




**END OF WORK PACKAGE**

# CHAPTER 3

# TROUBLESHOOTING PROCEDURES

## 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.

**END OF WORK PACKAGE**

# CHAPTER 4

# PMCS INSTRUCTIONS

PMCS is performed after installing the BFA and before firing the machine gun.

## PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

### GENERAL

Always keep in mind the WARNINGS and CAUTIONS before and during operation. Be sure to perform your after (A) PMCS.

Perform BEFORE PMCS if:

- You are the assigned operator and the BFA has been stored and not used for a period of 90 days.
- You have been issued the BFA for the first time.

BEFORE (B) - Checks and services performed prior to the equipment leaving its containment area or performing its intended mission.

DURING (D) – Checks begin when the equipment is being used in its intended mission.

AFTER (A) – Checks and services begin when the equipment is taken out of its mission mode or returned to its containment area.

Your PMCS table lists inspections and care required to keep your Blank Firing Attachment in good operating condition.

The interval column tells you when and the procedure column tells you how to do a certain check or service. The equipment condition listed in "NOT FULLY MISSION CAPABABLE IF" column indicates problems which must be corrected before you can operate the BFA. The terms "ready/available" and "mission capable" refer to the same status: equipment is on hand and is able to perform its combat missions (see DA PAM 750-8).

If your Blank Firing Attachment does not perform as required, refer to Troubleshooting in Chapter 3 for possible malfunctions and corrective actions. Report malfunctions on proper DA Form 2402 or refer to DA PAM 750-8.

**Table 1. Preventive Maintenance Checks and Services**

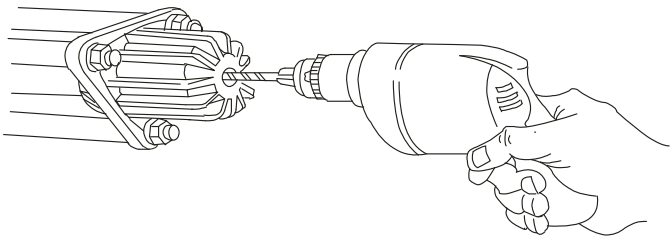
| Item No. | Interval | Item to be Checked/ Serviced | Procedure | Not Fully Mission Capable If: |
|---|---|---|---|---|
| 1 | D | BFA | After approximately 300-500 rounds of blank ammunition have been fired, make sure the end rod and clamp nuts are evenly and snugly tightened, and the clamps are firmly installed in the barrel support cooling holes. | Clamps or nuts are loose. |
| 2 | B | BFA | Check that threaded end rod nuts and clamps are tight. | Clamps or nuts are loose, |
| 3 | B | BFA | Check that clamps are firmly in place in the barrel support cooling holes. | BFA misaligned with barrel. |
| 4 | D | BFA | Check all parts and report any components that have cracks, breaks or other damage that could affect operation to maintenance personnel. | BFA cracked or broken. |

**END OF WORK PACKAGE**

# CHAPTER 5

# MAINTENANCE INSTRUCTIONS

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



2. After firing, clean exterior surfaces with a wiping rag (Item 3, WP 0019) dampened in rifle bore cleaner (RBC) (Item 1, WP 0019). Wipe dry and lightly oil with weapons lubricating oil (LSA) (Item 2, WP 0019). DO NOT lube either the end of the gun barrel or the inside of the BFA chamber.

**M2 MACHINE GUN**

Machine 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 with a light coating of LSA (Item 2, WP 0019). Refer to TM 9-1005-213-10.

**END OF WORK PACKAGE**

**INITIAL SETUP:**

**Tools and Special Tools**

Screwdriver
Wrench, Box or Open End 3/4 inch (Chamber Nuts)
Wrench, Open End 1/2 inch (Threaded Rod End)
Hammer, Ball-Peen, 8 oz.
Pliers, (Retaining Ring)
Wrench, Open End or Box 9/16 inch (Clamp Nuts)
Drill, 1/4 inch (Cleaning Chamber Orifice)
Bit, Drill, 1/4 inch (Cleaning Chamber Orifice)
Pliers, Lockwire

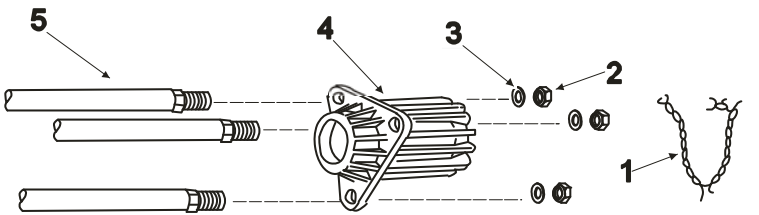
The required tools needed to maintain and repair the M19 BFA are listed above and can be found in the following Tool Kits:

EM 0074 Tool Kit, Aircraft Maintenance (NSN 5180-01-517-6129)
EM 0074 Tool Kit, Small Arms Repairman, Ordnance (NSN 5180-01-506-8287)

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). Discard lockwashers
3. Remove chamber (4) and replace with new chamber.
4. Reinstall existing nuts (2) with new lock washers (3) on threaded end rods (5).

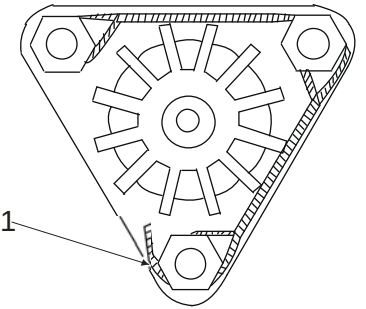


5. Alternately tighten each nut 1/2 turn until fully tightened. Visually check to see that threaded end rods remain parallel.

6. Install new lockwire (MS20995N51) (item 5, WP 0019 00).

**CAUTION**

Be sure lockwire (1) is secure on chamber nuts.



## REPAIR OF THREADED END RODS

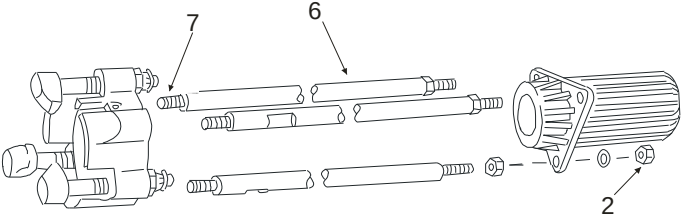
1. Remove chamber.

2. Remove threaded end rods (6) 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 (item 4, WP 0019 00).

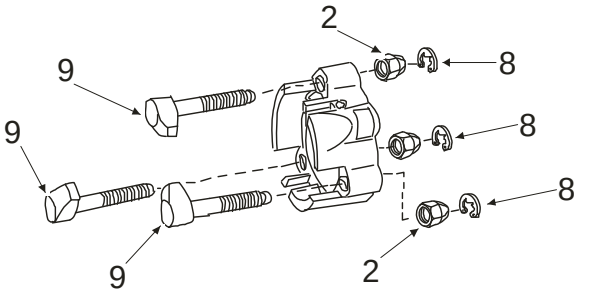
4. Apply sealing compound to threads (7) of replacement rod before installing in support. Install and tighten securely.

5. Reinstall chamber and lockwire (MS 20995N51).



**REPLACING SUPPORT CLAMP(S)**

1. Remove retaining ring(s) (8) and hexagon nut(s) (2).
2. Remove and discard damaged clamp(s) (9).
3. Install new clamp(s).
4. Install hexagon nut(s) and retaining ring(s).




**END OF WORK PACKAGE**

# CHAPTER 6

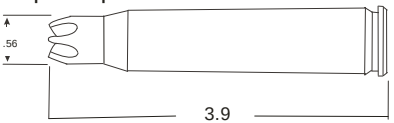
# AMMUNITION

**WARNING**

Authorized ammunition shown below is the only ammunition authorized for use in your Blank Firing. If it is not shown, it is not authorized.

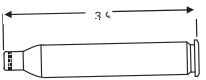
**AUTHORIZED AMMUNITION FOR BFA:**

Crimped Tip



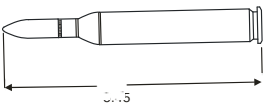

M1A1 Blank

**UNAUTHORIZED AMMUNITION FOR BFA:**



M1
Blank

Plain
Tip



Ball
(M2) M33

## AMMUNITION WHICH FAILS TO FIRE

Ammunition which fails to fire should be disposed of in accordance with authorized procedures.

## CARE, HANDLING, AND PRESERVATION

1. Do not open ammunition containers until the ammunition is to be used. Ammunition removed from the airtight containers, particularly in damp climates, is likely to corrode.

2. Protect ammunition from mud, dirt, and water. If the ammunition gets wet or dirty, wipe it off prior to use. Wipe off light corrosion as soon as it is discovered. Heavily corroded cartridges or cartridges which have dented cases or loose projectiles should not be fired.

3. Do not expose ammunition to the direct rays of the sun. If the powder is hot, excessive pressure may develop when the gun is fired.

4. Do not oil or grease the ammunition. Dust and other abrasives collecting on oiled or greased ammunition will damage the operating parts of the gun. Oiled cartridges will produce excessive chamber pressure.

**END OF WORK PACKAGE**

# CHAPTER 7

# PARTS INFORMATION

## 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 field maintenance of the M19 Blank Firing Attachment. It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the source, maintenance, and recoverability (SMR) Codes.

## GENERAL

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

1. Repair Parts List Work Packages. Work packages containing lists of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. These work packages also include 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. Sending units, brackets, filters, and bolts are listed with the component they mount on. Bulk materials are listed by item name in FIG. BULK at the end of the work packages. Repair parts kits are listed separately in their own functional group and work package. Repair parts for reparable special tools are also listed in a separate work package. Items listed are shown on the associated illustrations.

2. Special Tools List Work Packages. Work packages containing lists of special tools, special TMDE, and special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in the DESCRIPTION AND USABLE ON CODE (UOC) column). Tools that are components of common tool sets and/or Class VII are not listed.

3. Cross-Reference Indexes Work Packages. There are two cross-reference indexes work packages in this RPSTL: the National Stock Number (NSN) Index work package and the Part Number (P/N) Index work package. The National Stock Number Index work package refers you to the figure and item number. The Part Number Index work package refers you to the figure and item number.

**EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES**

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

SMR CODE (Column (2)). The SMR code containing supply/requisitioning information, maintenance level authorization criteria, and disposition instruction, as shown in the following breakout:

**Table 1. SMR Code Explanation.**

| Source Code | | Maintenance Code | | Recoverability Code |
|---|---|---|---|---|
| XX | | XX | | X |
| 1st two positions: How to get an item. | 3rd position: Who can install, replace, or use the item. | 4th position: Who can do complete repair* on the item. | | 5th position: Who determines disposition action on unserviceable items. |

*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.

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:

| Source Code | Application/Explanation |
|---|---|
| PA<br>PB<br>PC<br>PD<br>PE<br>PF<br>PG | Stock items; use the applicable NSN to requisition/request items with these source codes. They are authorized to the level indicated by the code entered in the 3rd position of the SMR code. |

**NOTE**

Items coded PC are subject to deterioration

| Source Code | Application/Explanation |
|---|---|
| KD<br>KF<br>KB | Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance level indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied. |

**MO** – Made at service/AMC level

**MF** – Made at field ASB level

**MH –** Made at below depot/sustainment level

**ML** – Made at SRA/TASMG

**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 P/N in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the bulk material group work package of the RPSTL. 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.

**AO** - Assembled by service/AMC level

**AF** – Assembled by field/ASB level

**AH** – Assembled by below depot sustainment level

**AL** – Assembled by SRA/TASMG

**AD** – Assembled by depot

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 third position 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.

**XA** - Do not requisition an "XA" coded item. Order the next higher assembly. (Refer to NOTE on page 0009 00-6.)

**XB** - If an item is not available from salvage, order it using the CAGEC and P/N.

**XC** - Installation drawings, diagrams, instruction sheets, field service drawings; identified by manufacturer's P/N.

**XD** - Item is not stocked. Order and XD-coded item through normal supply channels using the CAGEC and P/N 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 items source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

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 forth positions of the SMR code as follows:

Third Position. The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to the following levels of maintenance:

| **Maintenance Code** | **Application/Explanation** |
|---|---|
| O*- | Field (Service) level/AMC maintenance can remove, replace, and use the item. |

***Army may use C in the 3rd position. However, for joint service publications, Army will use O.

| Maintenance Code | Application/Explanation |
|---|---|
| **F-** | Field/ASB maintenance can remove, replace, and use the item. |
| H- | Below Depot Sustainment maintenance can remove, replace, and use the item. |
| L- | Specialized repair activity/TASMG can remove, replace, and use the item. |
| K- | Contractor facility can remove, replace and use the item. |
| Z- | Item is not authorized to be removed, replaced, or used at any maintenance level. |
| D- | Depot can remove, replace, and use the item. |

Fourth Position. The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (perform all authorized repair functions).

| Maintenance Code | Application/Explanation |
|---|---|
| O- | Field (Service)/AMC is the lowest level that can do complete repair of the item. |
| F- | Field/ASB is the lowest level that can do complete repair of the item. |
| H- | Below Depot Sustainment is the lowest level that can do complete repair of the item. |
| L- | Specialized repair activity/TASMG is the lowest level that can do complete repair of the item. |

| Maintenance Code - cont | Application/Explanation - cont |
|---|---|
| D- | Depot is the lowest level that can do complete repair of the item. |
| K- | Complete repair is done at contractor facility. |
| Z- | Non-reparable. No repair is authorized. |
| B- | No repair is authorized. No parts or special tools are authorized for maintenance of "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level. |

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

| Recoverability Code | Application/Explanation |
|---|---|
| **Z-** | Non-reparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code. |
| **O-** | Reparable item. When uneconomically reparable, condemn and dispose of the item at the service/AMC level. |

| Recoverability Code - cont | Application/Explanation - cont |
|---|---|
| **F-** | Reparable item. When uneconomically reparable, condemn and dispose of the item at the field level/ASB. |
| **H-** | Reparable item. When uneconomically reparable, condemn and dispose of the item at the below depot sustainment level. |
| **D-** | Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item are not authorized below depot level. |
| **L-** | Reparable item. Condemnation and disposal of item are not authorized below Specialized Repair Activity (SRA) or theater aviation sustainment maintenance group (TASMG). |
| **A-** | Item requires special handling or condemnation procedures because of specific reasons (such as precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions. |
| **K-** | Reparable item. Condemnation and disposal to be performed at contractor facility. |

NSN (Column (3)). The NSN for the item is listed in this column.

CAGEC (Column (4)). The Commercial and Government Entity Code (CAGEC) is a five-digit code which is used to identify the manufacture, distributor, or Government agency/activity that supplies the item.

PART NUMBER (Column (5)). 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 an NSN to requisition an item, the item you receive may have a different P/N from the number listed.

DESCRIPTION AND USABLE ON CODE (UOC) (Column (6)). This column includes the following information:

1. The federal item name, and when required, a minimum description to identify the item.

2. Part numbers of bulk materials are referenced in this column in the line entry to be manufactured or fabricated.

3. Hardness Critical Item (HCI). A support item that provides the equipment with special protection from electromagnetic pulse (EMP) damage during a nuclear attack.

4. The statement "END OF FIGURE" appears just below the last item description in column (6) for a given figure in both the repair parts list and special tools list work packages.

QTY (Column (7)). 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, sub-functional group, or an assembly. A "V" appearing in this column instead of a quantity indicates that the quantity is variable and quantity may change from application to application.

**EXPLANATION OF CROSS-REFERENCE INDEXES WORK PACKAGES FORMAT AND COLUMNS**

1. National Stock Number (NSN) Index Work Package.

STOCK NUMBER Column. This column lists the NSN in National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN.

NSN
(e.g., 5385-01-574-1476)
NIIN

When using this column to locate an item, ignore the first four digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

FIG. Column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in the repair parts list and special tools list work packages.

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.

2. Part Number (P/N) Index Work Package. P/ns in this index are listed in ascending alphanumeric sequence (vertical arrangement of letter and number combinations which places the first letter of digit of each group in order A through Z, followed by numbers 0 through 9 and each following letter or digit in like order.

PART NUMBER Column. Indicates the P/N assigned to the item.

FIG. Column. This column lists the number of the figure where the item is identified/located in the repair parts list and special tools list work packages.

ITEM Column. The item number is the number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

**SPECIAL INFORMATION**

UOC. The UOC 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 under the applicable item/nomenclature. Uncoded items are applicable to all models. Identification of the UOCs used in the RPSTL are:

| Code | Used On |
| --- | --- |
| WO8, 775 | Blank Firing Attachment |

Fabrication Instructions. Bulk materials required to manufacture items are listed in the bulk material functional group of the RPSTL. Part numbers for bulk material are also referenced in the Description Column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for the items source coded to be manufactured or fabricated are found in this manual.

**HOW TO LOCATE REPAIR PARTS**

1. When NSNs or P/Ns Are Not Known.

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 sub-assembly groups, and lists are divided into the same groups.

Second. Find the figure covering the functional group or the sub-functional group to which the item belongs.

Third. Identify the item on the figure and note the number(s).

Fourth. Look in the repair parts list work packages for the figure and item numbers. The NSNs and part numbers are on the same line as the associated item numbers.

2. When NSN Is Known.

First. If you have the NSN, look in the STOCK NUMBER column of the NSN index work package. The NSN is arranged in NIIN sequence. Note the figure and item number next to the NSN.

Second. Turn to the figure and locate the item number. Verify that the item is the one you are looking for.

3. When P/N Is Known.

First. If you have the P/N and not the NSN, look in the PART NUMBER column of the P/N index work package. Identify the figure and item number.

Second. Look up the item on the figure in the applicable repair parts list work package.

**END OF WORK PACKAGE**

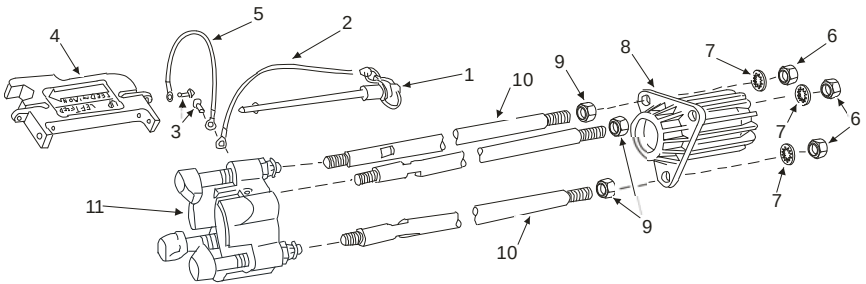



Figure 1. Blank Firing Attachment (BFA) M19

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE | (7) QTY |
|---|---|---|---|---|---|---|
| | | | | | Group 00<br>Fig. 1 M19 Blank Firing Attachment<br>9324931<br>Group 01<br>Fig. 1 Cartridge Guide Assembly<br>9326868 | |
| 1 | PAOZZ | 5315-01-385-3794 | 19200 | 12011997 | Pin, Retaining | 1 |
| 2 | PAOZZ | 4010-00-246-0381 | 19200 | 9328594-2 | Wire Rope Assy 10" long | 1 |
| 3 | PAOZZ | 5305-00-253-5622 | 96906 | MS21318-41 | Screw, Drive | 2 |

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE | (7) QTY |
|---|---|---|---|---|---|---|
| 4 | PAOZZ | 1005-01-092-9537 | 19200 | 9326868 | Guide, Cartridge, | 1 |
| 5 | PAOZZ | 4010-01-096-4476 | 19200 | 9328594-1 | Wire Rope Assy 13' long | 1 |
| 6 | PAOZZ | 5310-01-111-2785 | 96906 | MS9882-14 | Nut, Plain, Hex | 3 |
| 7 | PAOZZ | 5310-00-261-7156 | 96906 | MS35333-78 | Washer, Lock | 3 |
| 8 | PAOZZ | 1005-01-098-8329 | 19200 | 9326857 | Chamber, Gas Restrictor | 1 |
| 9 | PAOZZ | 5310-00-113-3757 | 96906 | MS35650-3392 | Nut, Plain Hex | 3 |

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE | (7) QTY |
|---|---|---|---|---|---|---|
| 10 | PAOZZ | 5306-01-096-1755 | 19200 | 9327080 | Rod, Threaded End | 3 |
| 11 | XAOZZ | | 19200 | 11833399 | Support Assembly | 1 |

**END OF WORK PACKAGE**

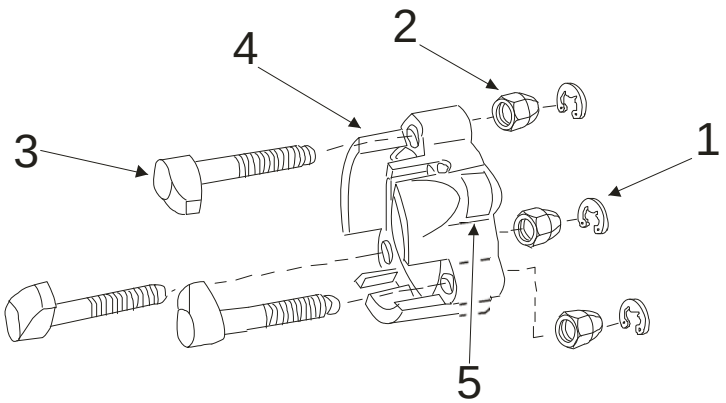



Figure 2. Blank Firing Attachment Support Assembly

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE | (7) QTY |
|---|---|---|---|---|---|---|
| | | | | | Group 02<br>Fig. 2 Support Assembly<br>11833399 | |
| 1 | PAOZZ | 5325-00-900-0982 | 96906 | MS16633-1021 | Ring, Retaining | 3 |
| 2 | PAOZZ | 5310-00-059-9264 | 19200 | 9328593 | Nut, Hex | 3 |
| 3 | PAOZZ | 1005-01-095-3500 | 19200 | 9326860 | Clamp, Support Assembly | 3 |
| 4 | XAOZZ | | 19200 | 9327085 | Support | 1 |
| 5 | PAOZZ | 7690-01-563-2647 | 19200 | 11833433 | Marker, Identification | 1 |

**END OF WORK PACKAGE**

| STOCK NUMBER | FIGURE | ITEM |
|---|---|---|
| 5310-00-059-9264 | 2 | 2 |
| 5310-00-113-3757 | 1 | 9 |
| 4010-00-246-0381 | 1 | 2 |
| 5305-00-253-5622 | 1 | 3 |
| 5310-00-261-7156 | 1 | 7 |
| 5325-00-900-0982 | 2 | 1 |
| 1005-01-092-9537 | 1 | 4 |
| 1005-01-095-3500 | 2 | 3 |
| 5306-01-096-1755 | 1 | 10 |
| 4010-01-096-4476 | 1 | 5 |
| 1005-01-098-8329 | 1 | 8 |
| 5310-01-111-2785 | 1 | 6 |
| 5315-01-385-3794 | 1 | 1 |
| 7690-01-563-2647 | 2 | 5 |

**END OF WORK PACKAGE**

| PART NUMBER | FIGURE | ITEM |
|---|---|---|
| 11833399 | 1 | 11 |
| 11833433 | 2 | 5 |
| 12011997 | 1 | 1 |
| 9326857 | 1 | 8 |
| 9326860 | 2 | 3 |
| 9326868 | 1 | 4 |
| 9327080 | 1 | 10 |
| 9327085 | 2 | 4 |
| 9328593 | 2 | 2 |
| 9328594-1 | 1 | 5 |
| 9328594-2 | 1 | 2 |
| MS16633-1021 | 2 | 1 |
| MS21318-41 | 1 | 3 |
| MS35333-78 | 1 | 7 |
| MS35650-3392 | 1 | 9 |
| MS9882-14 | 1 | 6 |

**END OF WORK PACKAGE**

# CHAPTER 8

# SUPPORTING INFORMATION

## SCOPE

This work package covers all forms, technical manuals and miscellaneous publications referenced in this manual.

## FORMS

| | |
|---|---|
| SF 368 | Product Quality Deficiency Report (PQDR) |
| DA Form 2028 | Recommended Changes to Publications and Blank Forms |

## TECHNICAL MANUALS

| | |
|---|---|
| TM 9-1005-213-10 | Operator's manual for Machine Guns, Caliber .50; M2, Heavy Barrel Flexible, M48 Turret Type, |

## PAMPLETS

| | |
|---|---|
| DA PAM 750-8 | The Army Maintenance Management System (TAMMS) |

**FIELD MANUALS**

| | |
|---|---|
| FM 4.25.22 | First Aid |

**END OF WORK PACKAGE**

## INTRODUCTION
### The Army Maintenance System MAC

This introduction provides a general explanation of all maintenance and repair functions authorized at the two maintenance levels under the Two-Level Maintenance System concept.

The MAC (immediately following the introduction) designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component shall be consistent with the capacities and capabilities of the designated maintenance levels, which are shown on the MAC in column (4) as:

Field – Includes three sub-columns, Crew (C), Service (O) and Field maintenance (F).

Sustainment – Includes two sub-columns, Below Depot (H) and Depot (D).

The tools and test equipment requirements (immediately following the MAC) list the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from the MAC.

The remarks (immediately following the tools and test equipment requirements) contain supplemental instructions and explanatory notes for a particular maintenance function.

**Maintenance Functions**

Maintenance functions are limited to and defined as follows:

1. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel). This includes scheduled inspection, gagings and evaluation of cannon tubes.

2. Test. To determine the serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.

3. Service. Operations required periodically to keep an item in proper operating condition; e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging of recoil mechanisms. The following are examples of service functions:

a. Unpack. To remove from packing box for service or when required for the performance of maintenance operations.

b. Repack. To return item to packing box after service and other maintenance operations.

c. Clean. To rid the item of contamination.

d. Touch-up. To spot paint scratched or blistered surfaces

e. Mark. To restore obliterated identification.

4. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specific parameters.

5. Align. To adjust specific variable elements of an item to bring about optimum or desired performance.

6. Calibrate. To determine or cause corrections to be made or to be adjusted on instruments of test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is certified standard of known accuracy, to detect and adjust and discrepancy in the accuracy of the instrument being compared.

7. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

8. Paint. To prepare and spray color coats of paint so that the ammunition can be identified and protected. The color indicating primary use is applied, preferably, to the entire exterior surface as the background color of the item. Other markings are to be repainted as original so as to retain proper ammunition identification.

9. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level is shown as the third position of the Source, Maintenance and Recoverability (SMC) code.

10. Repair. The application of maintenance services, including fault location/troubleshooting, removal/installation, disassembly/assembly procedures, and maintenance actions to identify troubles and 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.

**NOTE**

The following definitions are applicable to the “repair” maintenance function:

Services – Inspect, test, service, adjust, align, calibrate, and/or replace.

Fault location/troubleshooting – The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or Unit Under Test (UUT).

Disassembly/assembly – The step-by-step taking apart (or breakdown) of a spare/functional group coded item to the level of its least component identified as maintenance significant (i.e., assigned an SMR code) for the level of maintenance under consideration.

Actions – Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.

11. Overhaul – That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to a like new condition.

12. Rebuild. Those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

**Explanation of Columns in the MAC**

Column (1) – Group Number. Column (1) lists FGC numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies and modules with the Next Higher Assembly (NHA).

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

Column (3) – Maintenance Function. Column (3) lists the functions to be performed on the item listed in Column (2).

Column (4) – Maintenance level. Column (4) specifies each level of maintenance authorized to perform each function listed in column (3), by indicating work time

required (expressed as man-hours in whole hours or decimals) in the appropriate subcolumn. This work time figure represents the active time required to perform that maintenance function at the indicated level of maintenance. 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 (including any necessary disassembly/assembly time), troubleshooting/fault location time and quality assurance time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The symbol designations for the various maintenance levels are as follows:

C Operator or crew maintenance
F Field maintenance
D Sustainment depot maintenance

**NOTE**

The "L" maintenance level is not included in column (4) of the MAC. Functions to this level of maintenance are identified by a work time figure in the "H" column of column (4), and an associated reference code is used in the REMARKS column (6). This code is keyed to the remarks and the SRA complete repair application is explained there.

Column (5) – Tools and Equipment Reference Code. Column (5) specifies, by code, those common tool sets (not individual tools), common Test, Measurement and Diagnostic

Equipment (TMDE), and special tools, special TMDE and special support equipment required to perform the designated function. Codes are keyed to the entries in the tools and test equipment table.

**Explanation of Columns in the Tools and Test Equipment Requirements**

Column (1) – Tool or Test Equipment Reference Code. The tool or test equipment reference code correlates with a code used in column (5) of the MAC.

Column (2) – Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

Column (3) - Nomenclature. Name or identification of the tool or test equipment.

Column (4) – National Stock Number (NSN). The NSN of the tool or test equipment.

Column (5) – Tool Number. The manufacturer's part number.

**Explanation of Columns in the Remarks.**

Column (1) Remarks Code. The code recorded in remarks code entry of the MAC.

Column (2) – Remarks. This entry lists information pertinent to the maintenance function being performed as indicated in the MAC.

**END OF WORK PACKAGE**

**Table 1. Maintenance Allocation Chart for M19 Blank Firing Attachment**

(1) GROUP NUMBER: **00**
(2) COMPONENT / ASSEMBLY: **M19 Blank Firing Attachment**

| (3) MAINTENANCE FUNCTION | (4) MAINTENANCE LEVEL | | | | | (5) TOOLS AND EQUIP-MENT REF CODE |
|---|---|---|---|---|---|---|
| | FIELD | | | SUSTAINMENT | | |
| | CREW | SERVICE | FIELD | BELOW DEPOT | DEPOT | |
| | **C** | **O** | F | H | D | |
| Inspect | 0.1 | | | | | |
| Service | 0.2 | | | | | |
| Removal | 0.2 | | | | | |
| Install | 0.2 | | | | | |
| Replace | | 0.2 | | | | |
| Repair | | 1.0 | | | | |

(6) REMARKS CODE: N/A

**Table 1. Maintenance Allocation Chart for M19 Blank Firing Attachment – cont**

(1) GROUP NUMBER: **01**
(2) COMPONENT / ASSEMBLY: **CARTRIDGE GUIDE ASSEMBLY**

| (3) MAINTENANCE FUNCTION | (4) MAINTENANCE LEVEL | | | | | (5) TOOLS AND EQUIP-MENT REF CODE |
|---|---|---|---|---|---|---|
| | FIELD | | | SUSTAINMENT | | |
| | CREW | SERVICE | FIELD | BELOW DEPOT | DEPOT | |
| | **C** | **O** | F | H | D | |
| Inspect | 0.1 | | | | | |
| Service | 0.2 | | | | | |
| Removal | 0.1 | | | | | |
| Install | 0.1 | | | | | |
| Replace | | 0.3 | | | | |
| Repair | | 0.3 | | | | |

(6) REMARKS CODE: N/A

**Table 1. Maintenance Allocation Chart for M19 Blank Firing Attachment - cont**

(1) GROUP NUMBER: **02**
(2) COMPONENT / ASSEMBLY: **SUPPORT ASSEMBLY**

| (3) MAINTENANCE FUNCTION | (4) MAINTENANCE LEVEL | | | | | (5) TOOLS AND EQUIP-MENT REF CODE |
|---|---|---|---|---|---|---|
| | FIELD | | | SUSTAINMENT | | |
| | CREW | SERVICE | FIELD | BELOW DEPOT | DEPOT | |
| | **C** | **O** | F | H | D | |
| Inspect | 0.1 | | | | | |
| Service | 0.1 | | | | | |
| Removal | | 1.0 | | | | |
| Install | | 1.0 | | | | |
| Replace | | 1.0 | | | | |
| Repair | | 0.5 | | | | |

(6) REMARKS CODE:

**Table 2. Tools and Test Equipment for M19 Blank Firing Attachment**

| (1) TOOL | (2) MAINTENANCE LEVEL | (3) NOMENCLATURE | (4) NATIONAL STOCK NUMBER | (5) TOOL NUMBER |
|---|---|---|---|---|
| 1 | O | Shop Set, Small Arms | 4933-00-754-0664 | SC4933-95-CLA11 |
| 2 | O | Tool Kit, Small Arms | 5180-01-506-8287 | GOV92608 |

**END OF WORK PACKAGE**

This work package lists components of the end item and basic issue items for the blank firing attachment to help you inventory items required for safe and effective operation.

The Components of the End Item (COEI) and Basic Issue Items (BII) lists are divided into the following:

Components of the End Item (COEI): There are no COEI for the Blank Firing Attachment.

Basic Issue items (BII): These are the minimum essential items required to place the machine gun in operation, to operate it, and to perform emergency repairs. Although shipped separately packaged, BII must be with the machine gun during operation and whenever it is transferred between property accounts. The illustrations will assist you with hard to identify items. This manual is your authority to request/ requisition replacement BII, based on TOE/MTOE authorization of the end item.

**EXPLANATION OF COLUMNS.** The following provides an explanation of columns found in the tabular listings:

Column (1) – Illus. Number. Gives you the number of the item illustrated.

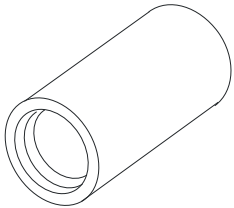
Column (2) – National Stock Number (NSN) and Illustration. Identifies the stock number of the item to be used for requisitioning purposes and provides an illustration of the item.

Column (3) – Description, Part Number/(CAGEC). Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The last line below the description is the part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).

Column (4) – U/I. Unit of Issue (U/I) indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (2).

Column (5) – Qty Rqd. Indicates the quantity required.

**Table 1. Basic Issue Items List**



| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER (NSN) | (3) DESCRIPTION, PART NUMBER/(CAGEC) | (4) U/I | (5) QTY RQR |
|---|---|---|---|---|
| 1 | | BARREL CAP<br>3454 (26978) | EA | 1 |

**Table 1. Basic Issue Items List – Cont.**

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION, AND USABLE ON CODE | (4) U/M | (5) QTY RQR |
|---|---|---|---|---|
| 1 | | TECHNICAL MANUAL | EA | 1 |


**END OF WORK PACKAGE**

This work package lists additional items you are authorized for the support of the blank firing attachment.

This list identifies items that do not have to accompany the pistol and that do not have to be turned in with it. These items are all authorized to you by CTA, MOTE, TDA, or JTA.

**EXPLANATION OF COLUMNS.** National stock numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support the equipment. The items are listed in alphabetical sequence by item name under the type document (i.e., CTA, MTOE, TDA, or JTA) which authorizes the item(s) to you.

## Table 1. Additional Authorization List

| (1) NATIONAL STOCK NUMBER | (2) DESCRIPTION CAGEC AND PART NUMBER | (3) USABLE ON CODE | (4) U/M | (5) QTY RQD |
|---|---|---|---|---|
| | N/A | | | |

**END OF WORK PACKAGE**

## INTRODUCTION

## SCOPE

This work package lists expendable and durable items that you will need to operate and maintain the M19 Blank Firing Attachment. This list is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (Except Medical, Class V Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

## EXPLANATION OF COLUMNS IN THE EXPENDABLE/DURABLE ITEMS LIST

Column (1) – Item Number. This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item (e.g., Use cleaning compound, (Item 1, WP 005 00).).

Column (2) – Level. This column identifies the lowest level of maintenance that requires the listed item

C = Operator/Crew

Column (3) – National Stock Number (NSN). This is the NSN assigned to the item, which you can use to requisition it.

Column (4) – Item Name, Description, Commercial and Government Entity Code (CAGEC), and Part Number (P/N). This column provides the other information you need to identify the item. The last line below the description is the part number and The Commercial and Government Entity Code (CAGEC) (in parentheses.)

Column (5) – Unit of Measure (U/M). This code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

| (1) ITEM NUMBER | (2) LEVEL | (3) NATIONAL STOCK NUMBER | (4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER | (5) U/M |
|---|---|---|---|---|
| 1 | | | Cleaning Compound, Solvent rifle bore cleaner (RBC) MIL-C-372 (81349) | |
| | C | 6850-00-224-6656 | 2 oz bottle | OZ |
| | C | 6850-00-224-6657 | 8 oz can | OZ |
| | C | 6850-00-224-6663 | 1 gal can | GL |
| 2 | | | Lubricating, Oil, Weapons: semi-fluid, (LSA) MIL-L-46000 (81349) | |
| | C | 9150-00-889-3522 | 4 oz bottle | OZ |

| (1) ITEM NUMBER | (2) LEVEL | (3) NATIONAL STOCK NUMBER | (4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER | (5) U/M |
|---|---|---|---|---|
| 3 | C | 7920-00-205-1711 | Rag, Wiping<br>A-A-531 GRB (80244)<br>50 lb. bundle | BE |
| 4 | C | 8030-00-822-3505 | Sealing Compound Grade A<br>MIL-S-22473 (81349)<br>2 cc tube | TU |
| 5 | C | 9525-00-618-5462 | Wire, Nonelectrical<br>(96906) MS20995 N51 | LB |
| 6 | | | Cleaner, Lubricant and Preservative , Grade 2, (CLP)<br>(81349) MIL-PRF-63460 | |
| | C | 9150-01-102-1473 | 1/2 oz bottle | BT |
| | C | 9150-01-079-6124 | 4 oz bottle | BT |
| 7 | | | Lubricating Oil, Weapons (LAW)<br>(81349) MIL-PRF-14107 | |
| | C | 9150-00-664-0038 | 4 oz bottle | CN |
| | C | 9150-00-292-9689 | 1 Quart Can | QT |

| (1) ITEM NUMBER | (2) LEVEL | (3) NATIONAL STOCK NUMBER | (4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER | (5) U/M |
|---|---|---|---|---|
| 8 | C | 1005-00-288-3565 | Swab, Small Arms Cleaning, Cotton, (19204) 5019316 | PG |
| 9 | C | 5350-00-221-0872 | Cloth, Abrasive (80204) ANSI-B74.18 | PG |
| 10 | C | 8415-00-823-7460 | Gloves, Rubber, Industrial (81348) ZZ-G-381 | PR |

**END OF WORK PACKAGE**

**I**



**L**



**M**



**N**



**P**



**R**

**R-Cont**



**T**



**W**

**By Order of the Secretary of the Army:**

**GEORGE W. CASEY, JR**
General, United States Army
Chief of Staff

**Official:**

JOYCE E. MORROW
Administrative Assistant to the
Secretary of the Army
0932706

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