

**ARMY TM 9-1005-470-10
AIR FORCE TO 11W3-3-4-31
NAVY (NAVSEA) SW370-DA-OPI-010**

**OPERATOR MANUAL
FOR**

**MODULAR HANDGUN SYSTEM (MHS)
PISTOL, 9mm, SEMIAUTOMATIC
M17 (NSN 1005-01-661-7317)
PISTOL, 9mm, SEMIAUTOMATIC
M18 (NSN 1005-01-661-7323)
PISTOL, 9mm, SEMIAUTOMATIC
GO (NSN 1005-01-661-7309)**



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**HEADQUARTERS, DEPARTMENTS OF
THE ARMY, AIR FORCE, AND NAVY
15 OCTOBER 2017**

WARNING SUMMARY

This warning summary contains general safety warnings 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 within the technical manual.

FIRST AID

For first aid information, refer to TC 4-02.1, First Aid.

Air Force Personnel refer to AFMAN 44-163 (I), First Aid.

EXPLANATION OF SAFETY WARNING ICONS



EAR PROTECTION – headphones over ears show that noise level will harm ears.



EXPLOSION – rapidly expanding symbol shows that the material may explode if subjected to high temperatures, sources of ignition, or high pressure.



EYE PROTECTION – person with goggles shows that the material will injure the eyes.



MOVING PARTS – hand with fingers caught between gears shows that the moving parts of the equipment present a danger to life or limb.



VAPOR – human figure in a cloud shows that material vapors present a danger to life or health.



WEAPON FIRE – weapon could accidentally discharge causing serious injury or death.

GENERAL SAFETY WARNINGS DESCRIPTION

WARNING



The MHS will fire any time the manual safety is disengaged and the trigger is pressed with a round in chamber. Ensure weapon is clear to prevent death or injury.

WARNING SUMMARY – (Continued)

WARNING



Do not fire heavily corroded or dented cartridges with loose bullets, or any other defective rounds detected by visual inspection. Failure to comply may result in death or injury to personnel.

WARNING



Parts are under spring pressure. Use care during removal and installation. Failure to comply may result in injury to personnel.

WARNING



Keep fingers clear of slide and chamber area to prevent injury to personnel.

WARNING



When firing the pistol, all personnel within 10 meters should wear hearing protection for up to 4800 rounds per day.

WARNING



Weapon should be fired in a well-ventilated area.

EXPLANATION OF HAZARDOUS MATERIALS ICONS



RADIATION – three circular wedges shows that the material emits radioactive energy and can injure human tissue.

WARNING SUMMARY – (Continued)

HAZARDOUS MATERIAL WARNING DESCRIPTION

WARNING



Front and rear sights contain tritium. Notify Radiation Safety Officer (RSO) if sights are damaged. Wash hands immediately if contact is made with tritium.

LIST OF EFFECTIVE PAGES/WORK PACKAGES

NOTE: Zero in the Change No. column indicates an original page or work package.

Date of issue for original manual is:

Original 15 OCTOBER 2017

TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 21 AND TOTAL NUMBER OF WORK PACKAGES IN THIS MANUAL IS 26 CONSISTING OF THE FOLLOWING:

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Front Cover.....	0	WP 0012 (2)	0
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WP 0011 (2)	0		

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DEPARTMENTS OF THE ARMY, AIR FORCE, AND NAVY
WASHINGTON, D.C. , 15 OCTOBER 2017

OPERATOR MANUAL
FOR

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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 TACOM Unique Logistics Support Applications (TULSA) Web site. The Internet address is <https://tulsa.tacom.army.mil>. Access to all applications requires CAC authentication, and you must complete the Access Request form the first time you use it. The DA Form 2028 is located under the TULSA Applications on the left-hand navigation bar. Fill out the form and click on SUBMIT. Using this form on the TULSA Web site will enable us to respond more quickly to your comments and to 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-IMP/TECH PUBS, MS 727, 6501 E. 11 Mile Road, Warren, MI 48397-5000. The e-mail address is usarmy.detroit.tacom.mbx.ilsc-techpubs@mail.mil. The fax number is DSN 786-1856 or Commercial (586) 282-1856. A reply will be furnished to you.

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HOW TO USE THIS MANUAL

The safest, easiest, and best way to operate the MHS is to use this manual. Learning to use this technical manual (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 to avoid exposing yourself to unnecessary hazards while performing your job.

This manual covers the operation of the M17 Modular Pistol and the M18 Compact Modular Pistol. The manual is divided into six chapters. Chapters are divided into Work Packages (WP). The six chapters and what they contain are found in the Table of Contents in the front of this manual. For example, to learn about using the MHS, you would look in the table of contents and discover that Chapter 2 provides all pertinent information about the operation of the system. Since Chapter 2 covers a great deal of information, you will have to scan the chapter to find the specific information you will need.

If the task in the work package pertains to both the M17 and the M18, then the M17 pistol will be illustrated. If the task is specific to just one weapon model, or the components are different, then that particular weapon (or both weapons) will be shown.

In the back of this manual, you will find Chapter 6, Supporting Information. The chapter provides specific information that will assist you in performing the various operational tasks. The work packages provide such information as additional references (i.e., other TMs or TCs), as in WP 0021, and Components of End Item (COEI) and Basic Issue Items (BII), as in WP 0022. Become familiar with all work packages and what they contain before beginning any operational or maintenance task.

This TM has been arranged with you, the user, in mind. Your safety and ability to perform the operational and maintenance tasks in the most efficient manner hinge on your ability to perform and understand the information contained in this manual. If you fully understand the arrangement and purpose of this TM, and have taken the time to read through this section, you will have no trouble operating and maintaining this weapon in the manner for which it was designed.

CHAPTER 1
GENERAL INFORMATION, EQUIPMENT DESCRIPTION AND THEORY OF
OPERATION
FOR
MODULAR HANDGUN SYSTEM (MHS)

OPERATOR

GENERAL INFORMATION

SCOPE

Type of Manual: Operator

Model Number and Equipment Name:

M17 9mm Semiautomatic Pistol

M18 9mm Semiautomatic Pistol

GO 9mm Semiautomatic Pistol

Purpose of Equipment: The purpose of the MHS is to provide personnel with an offensive/defensive capability to engage targets in the field. These weapons provide a lightweight, operator friendly, flexible, lethal, and reliable tool.

MAINTENANCE FORMS, RECORDS, AND REPORTS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by (as applicable) DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual; DA PAM 738-751, Functional Users Manual for the Army Maintenance Management Systems-Aviation (TAMMS-A); or AR 700-138, Army Logistics Readiness and Sustainability.

Maintenance forms and records used by Air Force personnel are prescribed in AFI 21-101 and the applicable TO 00-20 Series Technical Orders.

Navy users should refer to their service directives to determine applicable maintenance forms and records to be used.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR) and PRODUCT QUALITY DEFICIENCY REPORTS (PQDR)

If your MHS needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you do not like about your equipment. Let us know why you do not like the design or performance.

All non-Aviation/Missile EIRs and PQDRs must be submitted through the Product Data Reporting and Evaluation Program (PDREP) Web site. The PDREP site is: <https://www.pdrep.csd.disa.mil/>. If you do not have Internet access, you may submit your information using an SF 368 (Product Quality Deficiency Report). You can send your SF 368 using email, regular mail, or fax using the addresses/fax numbers specified in DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual. We will send you a reply.

Air Force: Air Force Personnel will submit any Material Deficiency Report (MDR) or Product Quality Deficiency Report (PQDR) through the JDRS at <https://jdrs.mil> in accordance with Technical Order (TO) 00-35D-54, USAF Deficiency Reporting Investigation and Resolution.

Navy: EIRs shall be submitted via Product Quality Deficiency Report (PQDR) or Conventional Ordnance Deficiency Reports (CODR) at <https://awis.navair.navy.mil/AWIS/index.asp> using the Deficiency Report System (DRWEB) application. Users may also send EIRs via letter directly to: Commanding Officer, Code JXN, Bldg. 3422, NAVSURFWARCENDIV, 300 Hwy 361, Crane, IN 47522-5001 or submit via email: smallarms@navy.mil.

CORROSION PREVENTION AND CONTROL (CPC)

Corrosion prevention and control of Army materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items. The term "corrosion" means the deterioration of a material or its properties due to a reaction of that material with its chemical environment. An example is the rusting of iron. Corrosion damage in metals can be seen, depending on the metal, as tarnishing, pitting, fogging, surface residue, and/or cracking. Plastics, composites, and rubbers can also degrade (also considered to be corrosion based on the above definition of corrosion). Degradation is caused by thermal (heat), oxidation (oxygen), solvation (solvents), or photolytic (light, typically ultraviolet) processes. The most common exposures are excessive heat or light. Damage from these processes will appear as cracking, softening, swelling, and/or breaking. The US Army has defined the following nine (9) forms of corrosion used to evaluate the deterioration of metals. These shall be used when evaluating and documenting corrosion.

UNIFORM (or general attack): Affects a large area of exposed metal surface, like rust on steel or tarnish on silver. It gradually reduces the thickness of the metal until it fails.

CREVICE: Occurs in crevices created by rubber seals, gaskets, bolt heads, lap joints, dirt or other surface deposits. It will develop anywhere moisture or other corrosive agents are trapped and unable to drain or evaporate.

SELECTIVE LEACHING: One element, usually the anodic element of an alloy, corrodes away, leaving the cathodic element. This can create holes in metal.

INTERGRANULAR: Metal deterioration caused by corrosion on the bonds between or across the grain boundaries of the metal. The metal will appear to be peeling off in sheets, flaking, or being pushed apart by layers. A particular type of intergranular corrosion is exfoliation.

PITTING: This can result from conditions similar to those for crevice corrosion. Pits can develop on various materials due to their composition. Rifle boxes are big victims of pitting.

EROSION: Results when a moving fluid (liquid or gas) flows across a metal surface, particularly when solid particles are present in the fluid. Corrosion actually occurs on the surface of the metal, but the moving fluid washes away the corrosion and exposes a new metal surface, which also corrodes.

FRETTING: Occurs as a result of small, repetitive movements (e.g., vibration) between two surfaces in contact with each other. It's usually identified by a black powder corrosion product or pits on the surface.

GALVANIC: Occurs when two different types of metal come in contact with each other, like steel bolts on aluminum, for example. This is a common problem on aircraft because of their mix of metals.

STRESS: Term used to describe corrosion cracking and corrosion fatigue.

Where an item is not ready/available due to one of these forms of corrosion, it shall be recorded as a corrosion failure in the inspection record and the appropriate code (170) for corrosion shall be used when requesting/performing maintenance.

If a corrosion problem is identified, it can be reported as an EIR or PQDR. Use of key words such as "corrosion," "rust," "deterioration," or "cracking" will ensure that the information is identified as a CPC problem. SF Form 368, Product Quality Deficiency Report should be submitted to the address specified in DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual.

Navy users shall submit letter or SF 368 (Product Quality Deficiency Report) directly to: Commander, Code JXN, Bldg 3422, NAVSURFWARCENDIV, 300 Hwy 361, Crane, IN 47522-5001 or submit via email: smallarms@navy.mil.

DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE

Procedures and materials used for the destruction of the MHS, in order to prevent enemy use will be found in TM 750-244-7, Procedures for Destruction of Equipment to Prevent Enemy Use.

Air Force Only - Destroy by any method that will prevent reconstruction of the weapon.

PREPARATION FOR SHIPPING OR STORAGE

For storage requirements, refer to WP 0018.

For shipping requirements, refer to WP 0019.

For information on transportability, refer to WP 0020.

LIST OF ABBREVIATIONS/ACRONYMS

AAL	Additional Authorization List
AFMAN	Air Force Manual
BII	Basic Issue Items
btl	bottle
C	Celsius
CAGEC	Contractor and Government Entity Code
CLP	Cleaner, lubricant, preservative

cm	centimeter
CODR	Conventional Ordnance Deficiency Reports
COEI	Component of End Item
CPC	Corrosion prevention and control
CSI	Critical Safety Items
CTA	Common Table of Allowances
DoD	Department of Defense
EA	each
F	Fahrenheit
IAW	in accordance with
in	inch
IUID	Item Unique Identification
JDRS	Joint Deficiency Reporting System
JTA	Joint Table of Allowances
kg	kilogram
LAW	Weapons lubricating oil
lb	pound
LCI	loaded chamber indicator
LSA	Semi-fluid weapons lubricating oil
MAJCOM	Major Command
MDR	Material Deficiency Report
MHS	Modular Handgun System
mm	millimeter
MTOE	Modification Table of Organization and Equipment
NMC	Not Mission Capable
oz	ounce
PDREP	Product Data Reporting and Evaluation Program
PG	package
PMCS	Preventive Maintenance Checks and Services
PQDR	Product Quality Deficiency Report
qt	quart
RSO	Radiation Safety Officer
SF	Standard Form
SOP	Standard operating procedures
SPI	Specialized Packaging Instruction
TACOM	Tank-automotive Command
TAMMS	The Army Maintenance Management System
TAMMS-A	The Army Maintenance Management System-Aviation
TC	Training Circular
TDA	Tables of Distribution and Allowances
TM	Technical Manual
TMDER	Technical Manual Deficiency/Evaluation Report
TO	Technical Order
TOE	Table of Organization and Equipment
TOMA	Technical Order Management Agency
U/I	Unit of Issue
WP	Work package

SAFETY, CARE, AND HANDLING

Care must be taken when handling the MHS. Always clear the weapon before inspection or maintenance. Follow product cautions when using cleaning materials.

Always wear appropriate eye and ear protection when firing the weapon.

Disposal of tritium sights must be performed in a controlled manner. Place damaged sights in a small zip lock bag and label it "Damaged tritium sight DO NOT OPEN." The local Radiation Safety Officer (RSO) will assist in packaging the tritium sights for shipment for appropriate disposal. Tritium sight vials on M17/M18 Pistol contain 15.0 millicuries in the front sight and 18.1 millicuries in the rear sight of radioactive tritium gas in sealed source form. The beta radiation emitted by tritium is only a hazard if the tritium vial is broken and is ingested by personnel. Immediately report any suspected lost or damaged tritium sights to your RSO for guidance on proper containment, cleanup, and disposal of this materiel. If your local RSO cannot be reached, contact the TACOM LCMC Safety Office during regular duty hours at DSN 786-7635 or 786-6194. After duty hours, contact the Staff Duty Office through the operator at DSN 786-6692.

ITEM UNIQUE IDENTIFICATION

This equipment is marked with an item unique identification (IUID) marking. This marking must be scanned during performance of procedures to remove and replace the items marked or when turning in items or receiving them from supply or another unit. The IUID is located on the right side of the MHS receiver following the serial number. It is visible through a cutout in the grip module.

END OF WORK PACKAGE

OPERATOR

EQUIPMENT DESCRIPTION AND DATA

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

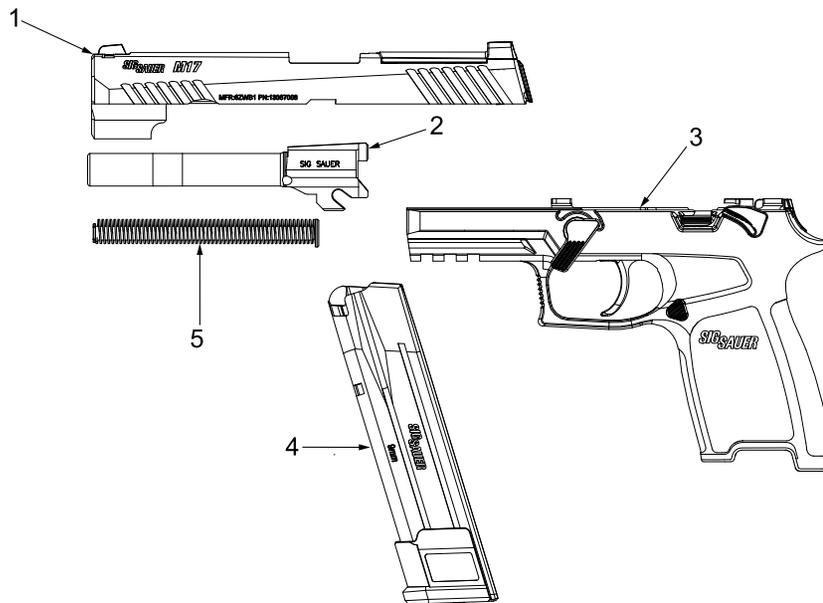
The Modular Handgun System (MHS) is a mechanically locked, short-recoil operated weapon featuring an automatic striker pin safety lock, ambidextrous manual safety, and external slide catch lever. Feeding is automatic with each shot fired, until the magazine is empty. The slide is held open after the last shot has been fired.

The MHS features a polymer grip module that is available in three sizes to accommodate different personnel hand sizes. Refer to WP 0015 for guidance on grip sizing. The pistol is equipped with an ambidextrous manual safety. A loaded chamber indicator flag provides the operator with the ability to visually determine if the chamber is loaded during hours of daylight and tactually during limited or no visibility situations.

The magazine catch is reversible to accommodate either left or right handed personnel. The slide catch lever is ambidextrous. With a partially pre-tensioned striker, the MHS has a short, crisp trigger press with a short, pronounced reset of the trigger.

A MIL-STD 1913 rail provides the means of mounting accessories.

MAJOR COMPONENTS



M17002

Figure 1. MHS Major Components.

1. **Slide Assembly** – Slide houses striker assembly, extractor, and sights, and energizes striker during recoil cycle.
2. **Barrel** – Houses cartridges for firing and directs projectile.
3. **Receiver/Grip Module Assembly** – Supports all major components. Controls action of pistol through major components. Houses magazine catch assembly.
4. **Magazine** – Holds cartridges in place for feeding.
5. **Recoil Spring Guide Assembly** – Absorbs recoil and returns slide and barrel assembly to forward position.

DIFFERENCES BETWEEN MODELS

M17 – This pistol configuration includes a 4.70 in (119.38 mm) barrel, full size slide assembly, and a full length recoil spring guide assembly. Serial numbers for this model begin with TF.

M18 – This pistol configuration includes a 3.90 in (99.06 mm) barrel, compact slide assembly, and a compact recoil spring guide assembly. Serial numbers for this model begin with TC.

EQUIPMENT DATA**Table 1. M17 Data.**

Caliber	9mm x 19
Length	8.05 in (204.75 mm)
Weight (without magazine)	26.60 oz (0.75 kg)
Height (standard magazine installed)	5.55 in (141.90 mm)
Height (extended magazine installed)	6.38 in (162.00 mm)
Width	1.55 in (39.60 mm)
Barrel Length	4.70 in (120.30 mm)
Rifling	1:10 in (254.00 mm)

Table 2. M18 Data.

Caliber	9mm x 19
Length	7.25 in (184.15 mm)
Weight (without magazine)	24.50 oz (0.69 kg)
Height (standard magazine installed)	5.55 in (141.90 mm)
Height (extended magazine installed)	6.38 in (162.00 mm)
Width	1.55 in (39.60 mm)
Barrel Length	3.90 in (98.00 mm)
Rifling	1:10 in (254.00 mm)

Table 3. Magazine Data.

Weight, Standard, Unloaded, 9mm, 17 round	2.97 oz (0.08 kg)
Weight, Extended, Unloaded 9mm, 21 round	3.83 oz (0.11 kg)

END OF WORK PACKAGE

OPERATOR
THEORY OF OPERATION

SYSTEM THEORY

The following description of the cycle of operation begins with a fully loaded pistol.

Firing - Pressing the trigger releases the striker pin. The striker pin hits the primer and detonates the live cartridge. The burning propellant turns from a solid into a gas, which expands causing an increase in pressure. The increase in pressure causes the cartridge case to expand, sealing the chamber and forcing the projectile out of the front of the barrel. As the bullet travels down the barrel, the slide and barrel remain locked in battery until the bullet leaves the muzzle.

Unlocking - As the slide and barrel move rearward, the barrel unlocks from the slide and stops its rearward movement.

Extraction - The extractor pulls the empty cartridge from the chamber of the stationary barrel as the slide continues its rearward travel.

Ejection - As the slide continues its rearward movement and the extractor pulls on the right side of the cartridge rim, the left side of the cartridge rim hits the ejector causing the case to be pushed to the right out of the ejection port.

Feeding - As the rearward energy dissipates, the slide is propelled forward by the energy in the compressed recoil spring. As the slide travels forward, the top cartridge in the magazine is pushed out from under the feed lips of the magazine, aligning it with the mouth of the chamber in the barrel.

Chambering - As the cartridge is pushed forward, out from underneath the lips of the magazine, the magazine spring forces the cartridge rim to slide up the breech face under the extractor as the front of the cartridge continues into the chamber.

Locking - As the slide forces the cartridge into the chamber, the barrel hood is forced up into the ejection port of the slide by the contact of the barrel lug with the slide catch pivot pin. This causes the rear of the barrel to cam up and lock into the ejection port.

Cocking (Energizing of the Striker Assembly) - As the slide moves forward, the striker pin is engaged by the sear. As the slide continues forward travel, the striker spring is compressed. The striker is now ready to be released by pressing the trigger rearward.

END OF WORK PACKAGE

CHAPTER 2
OPERATOR INSTRUCTIONS
FOR
MODULAR HANDGUN SYSTEM (MHS)

OPERATOR INSTRUCTIONS

DESCRIPTION AND USE OF OPERATOR CONTROLS AND INDICATORS

GENERAL

The following illustrates and describes controls and indicators common to both the M17 and M18 pistols.

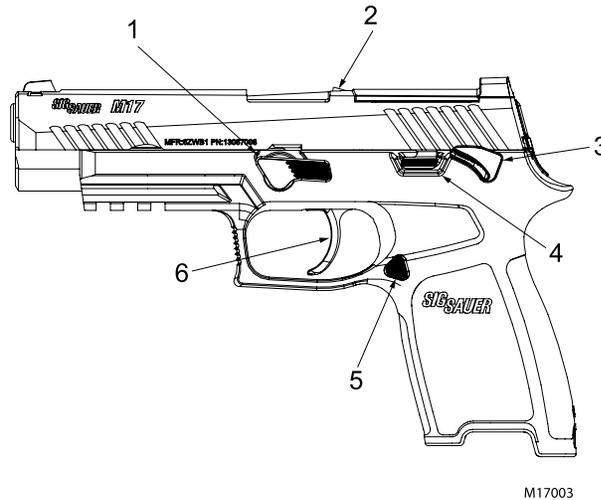


Figure 1. Controls and Indicators.

Table 1. Description of Controls and Indicators.

Key	Control/Indicator	Function
1	Takedown Lever	Takedown lever is rotated clockwise to allow removal of slide and barrel assembly from receiver. Takedown lever can only be rotated with the magazine removed from the grip module.
2	Loaded Chamber Indicator (LCI)	Provides a visual and physical indicator when a cartridge is loaded in the chamber.
3	Ambidextrous Manual Safety Lever	Blocks trigger bar from releasing trigger.
4	Slide Catch Lever	Locks slide to the rear (in open position) after firing last cartridge in magazine. The follower of the empty magazine pushes the slide catch lever up, which engages the slide and locks it to the rear in the open position. When the slide catch lever is depressed, the slide is released and moves forward under recoil spring pressure.
5	Magazine Catch	Locks magazine into magazine well of grip module. Press magazine catch to release magazine.
6	Trigger	Initiates firing when pressed.

END OF WORK PACKAGE

OPERATOR INSTRUCTIONS
OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

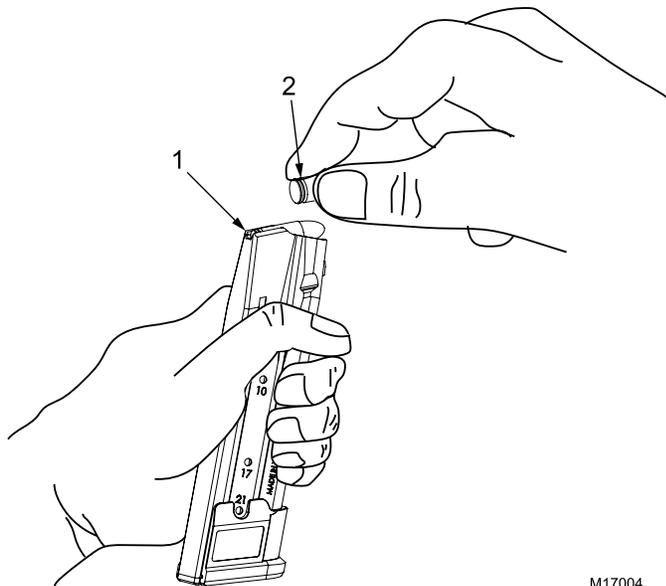
NOT APPLICABLE

OPERATING PROCEDURES**LOADING THE MAGAZINE****WARNING**

Parts under spring pressure. Wear appropriate eye protection to prevent injury.

Keep fingers clear of slide and chamber area to prevent injury to personnel.

1. Press down on magazine follower with the first cartridge (Figure 1, Item 1) and push the cartridge to the rear under the magazine lips.
2. Align the next cartridge (Figure 1, Item 2), repeating until the magazine is fully loaded.



M17004

Figure 1. Loading Magazine.

LOADING THE PISTOL

1. Press up on manual safety lever (Figure 2, Item 2) to engage safety.
2. Lock slide to rear by pulling slide (Figure 2, Item 1) to rear while pushing up on slide catch lever (Figure 2, Item 5).
3. Conduct three-point safety check to ensure there is no cartridge, foreign debris, or any physical damage.
 - a. Ensure chamber is empty.
 - b. Inspect for no magazine.
 - c. Inspect breech face.
4. Insert a loaded magazine (Figure 2, Item 4) into magazine well (Figure 2, Item 3). You should hear an audible click.

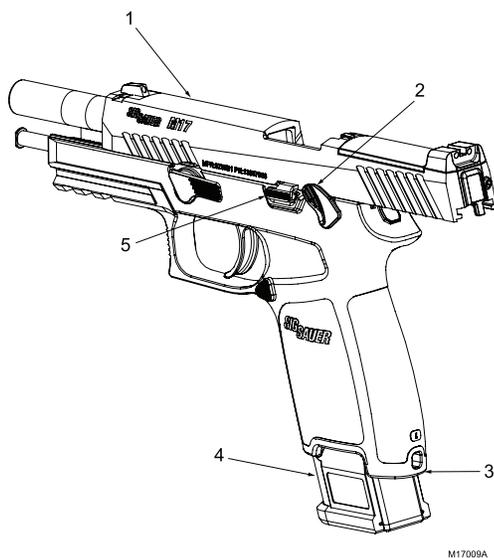


Figure 2. Loading Pistol.

5. Press slide catch lever (Figure 3, Item 2) to release slide while visually observing cartridge chambering. Loaded chamber indicator (Figure 3, Item 1) should be in the up position.

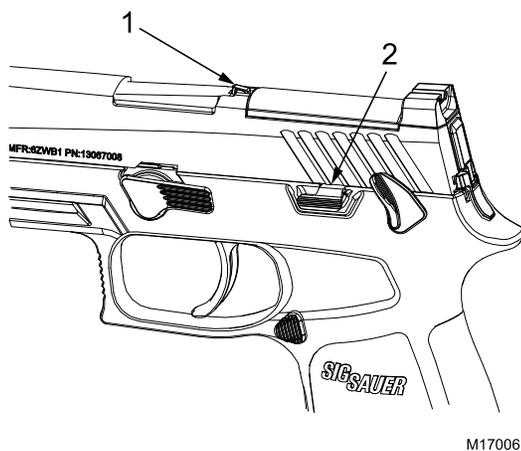


Figure 3. Chambering Cartridge.

FIRING THE PISTOL**WARNING**

The pistol is ready to fire when a cartridge is chambered and the manual safety is disengaged.

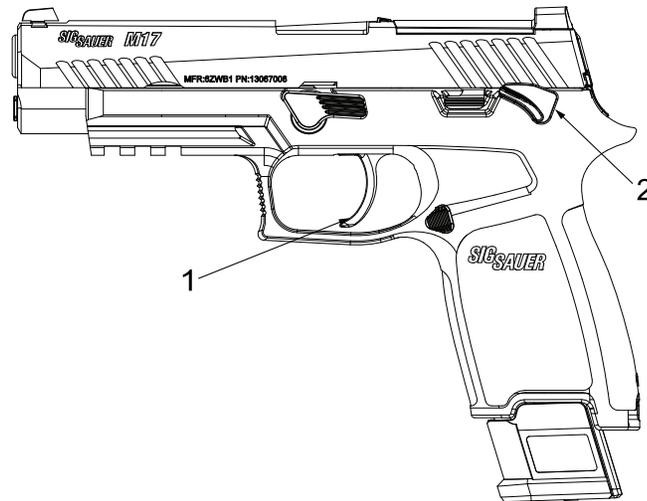
When firing the pistol, all personnel within 10 meters should wear hearing protection for up to 4800 rounds per day.

Weapon should be fired in a well-ventilated area.

NOTE

The manual safety levers are ambidextrous. Engaging or disengaging one lever will automatically move the opposing lever in the same direction.

1. Press down on manual safety lever (Figure 4, Item 2) to disengage safety.
2. Aim pistol at target.
3. Press trigger (Figure 4, Item 1) to the rear to fire.



M17007

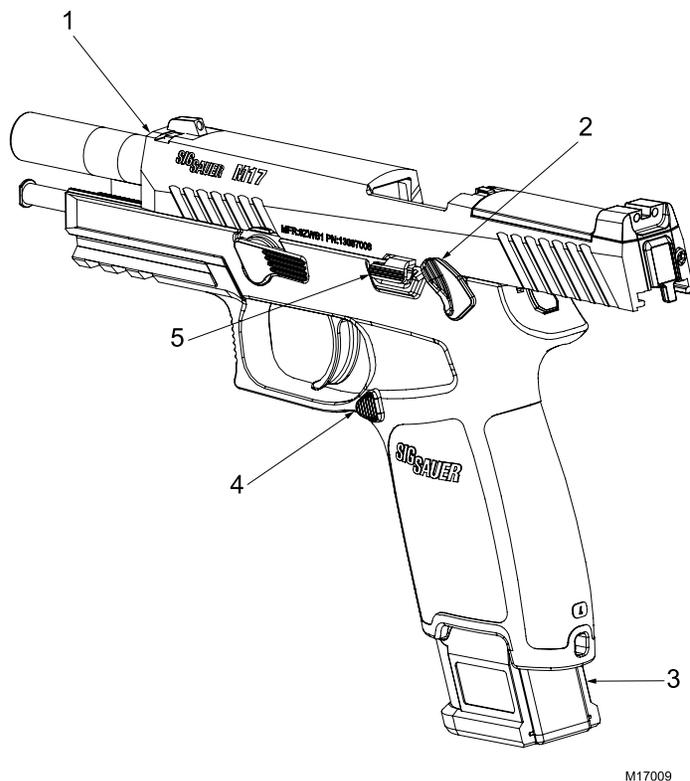
Figure 4. Firing Pistol.

RELOADING DURING SHOOTING-MAGAZINE EMPTY

1. Press up on manual safety lever (Figure 5, Item 2) to engage safety.
2. Press magazine catch (Figure 5, Item 4) to release empty magazine (Figure 5, Item 3).
3. Insert loaded magazine (Figure 5, Item 3).
4. Press slide catch lever (Figure 5, Item 5) to release slide. Loaded chamber indicator should be in the up position.

UNLOADING/CLEARING THE PISTOL

1. Point weapon in a safe direction.
2. Press up on manual safety lever (Figure 5, Item 2) to engage safety.
3. Press magazine catch (Figure 5, Item 4) to release magazine.
4. Push up on slide catch lever (Figure 5, Item 5) and lock slide to rear. Visually ensure last round has been ejected from pistol.
5. Conduct three-point safety check to ensure there is no cartridge, foreign debris, or any physical damage.
 - a. Ensure chamber is empty.
 - b. Inspect for no magazine.
 - c. Inspect breech face.
6. Press slide catch lever (Figure 5, Item 5) to release slide (Figure 5, Item 1) forward.



M17009

Figure 5. Reloading and Unloading.

UNLOADING MAGAZINE

1. Hold magazine upright with front (Figure 6, Item 3) of magazine forward.
2. Push forward on cartridges (Figure 6, Item 1).
3. Repeat step 2 until magazine (Figure 6, Item 2) is empty.

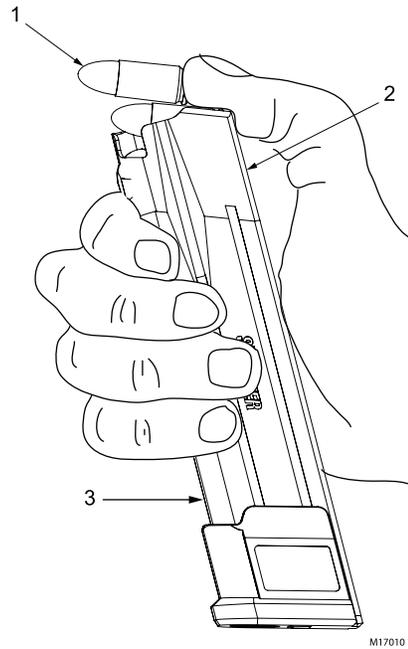


Figure 6. Unloading Magazine.

END OF TASK

END OF WORK PACKAGE

OPERATOR INSTRUCTIONS
OPERATION UNDER UNUSUAL CONDITIONS

INITIAL SETUP:**Materials**

Cleaner, lubricant, and preservative (CLP)
(WP 0024, Item 3)
Cleaning rod (WP 0024, Item 8)
Semi-fluid weapons lubricating oil (LSA)
(WP 0024, Item 5)

Swab (WP 0024, Item 9)
Weapons lubricating oil (LAW) (WP 0024, Item 4)
Wiping rags (WP 0024, Item 7)

WARNING

Ensure finger is away from trigger unless you intend to fire. To ensure pistol is not loaded, physically and visually inspect to ensure chamber is empty and no ammunition is chambered.

NOTE

Unusual conditions are defined as any climatic condition requiring special maintenance of pistol.

Perform maintenance outlined for climate that most applies to your operational area.

EXTREME COLD/ARCTIC CLIMATE**WARNING**

A small amount of CLP on moving parts can freeze and prevent weapon from firing in extreme cold conditions.

1. Thoroughly remove CLP and apply LAW prior to deploying to extreme cold weather environments.
2. When operating pistol in extreme cold climates, clean and lubricate pistol in outdoor ambient temperature.
3. Apply a light coat of LAW to all functional parts.
4. Keep pistol covered when moving from a warm to cold area to prevent freezing and ensure gradual cooling.
5. Keep pistol dry.
6. Do not place hot pistol in snow or ice.
7. Keep ammunition dry; moisture will cause malfunctions. Do not lubricate the ammunition.
8. Keep snow out of bore of barrel. If snow gets into bore, clean bore before firing using a swab and cleaning rod.

HOT, WET/JUNGLE CLIMATE

1. Increase frequency of maintenance. Inspect hidden surfaces for corrosion. If corrosion is found, clean and lubricate.
2. Prevent corrosion by removing handprints with cloth. Dry and lubricate pistol with CLP/LSA.
3. Check ammunition and magazines frequently for corrosion. Clean magazine using CLP/LSA, wipe dry with cloth. As necessary, clean ammunition with dry cloth.
4. Keep mud out of bore of barrel. If mud should get into bore, clean bore before firing using a swab and cleaning rod.
5. Keep ammunition dry; moisture will cause malfunctions. Do not lubricate the ammunition.

HOT, DRY/DESERT CLIMATE

1. Dust and sand will get into pistol and cause malfunctions and excessive wear on component contact surfaces during firing. Keep pistol covered when possible.
2. Corrosion is less likely to form on metal parts in a dry climate. Therefore, lightly lubricate internal working surfaces only with CLP/LSA. Do not lubricate external parts of pistol. Wipe any excess lubricant from exposed surfaces. Do not lubricate internal components of magazine.
3. Keep ammunition dry; moisture will cause malfunctions. Do not lubricate the ammunition.

HEAVY RAIN AND WATER OPERATIONS – ALL CLIMATES

1. Perform maintenance in accordance with appropriate climatic conditions.
2. Keep pistol dry.
3. Drain water from barrel prior to firing.
4. Lightly lubricate bore and chamber. Apply CLP/LSA to metal internal and external surfaces of pistol.
5. Keep ammunition dry; moisture will cause malfunctions. Do not lubricate the ammunition.

END OF TASK**END OF WORK PACKAGE**

OPERATOR INSTRUCTIONS
EMERGENCY PROCEDURES

INITIAL SETUP:**References**

WP 0010

Immediate Action

Immediate action is prompt action taken by user to correct a stoppage. Procedure for applying immediate action should become instinctive to user, without user attempting to discover cause. It is important that user apply immediate action instinctively to correct a stoppage.

WARNING

During the following procedures, ensure pistol is pointed in a safe direction. Keep finger off of the trigger and out of the trigger guard.

SLIDE FORWARD, PISTOL FAILS TO FIRE

1. Strike or tap bottom of magazine to ensure it is fully seated.
2. Retract slide completely to rear and release it.
3. Acquire target and attempt to fire pistol.
4. If pistol still fails to fire after applying immediate action, refer to troubleshooting (WP 0010).

SLIDE NOT FULLY SEATED, PISTOL FAILS TO FIRE

1. Strike rear of slide with palm of non-firing hand to seat slide.
2. Press trigger and attempt to fire pistol.
3. If pistol still fails to fire after applying immediate action, refer to troubleshooting (WP 0010).

EXPENDED CARTRIDGE CASE IS STUCK IN EJECTION PORT, PISTOL FAILS TO FIRE

1. Press magazine catch to remove magazine.
2. Retract slide and lock to rear by pressing up on slide catch lever.
3. Visually inspect ejection port, chamber, and bore. Remove any obstructions.
4. Insert another loaded magazine.
5. Release slide by pressing down slide catch lever or retracting and releasing slide.
6. Acquire target and attempt to fire pistol.
7. If pistol still fails to fire after applying immediate action, a detailed inspection should be made to determine the possible cause of the stoppage. If the cause cannot be determined by the operator, the pistol should be evacuated to the Maintainer.

COOK-OFF**WARNING**

A “cook-off” occurs when a live cartridge in the chamber of a hot barrel detonates prematurely. Physical injury or death may occur if the muzzle is not pointed in a safe direction.

1. Press magazine catch to remove magazine.
2. Retract slide and eject cartridge immediately.
3. If cartridge cannot be removed within 10 seconds, wait at least 15 minutes with pistol pointing in a safe direction.
4. After 15 minutes, pull slide rearward and attempt to remove cartridge.

END OF WORK PACKAGE

CHAPTER 3
TROUBLESHOOTING PROCEDURES
FOR
MODULAR HANDGUN SYSTEM (MHS)

OPERATOR TROUBLESHOOTING PROCEDURE**TROUBLESHOOTING INTRODUCTION**

The table lists common malfunctions which you may find during operation or maintenance of the MHS and its components. Perform test/inspections and corrective actions in order listed.

This work package cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify Maintainer.

END OF WORK PACKAGE

OPERATOR TROUBLESHOOTING PROCEDURE

TROUBLESHOOTING INDEX

Malfunction/Symptom	Troubleshooting Procedure
1. Cartridge does not feed	WP 0010
2. Cartridge does not chamber	WP 0010
3. Slide does not lock fully forward	WP 0010
4. Pistol does not fire	WP 0010
5. Cartridge does not extract.	WP 0010
6. Cartridge does not eject	WP 0010
7. Dead trigger/unable to insert magazine	WP 0010

END OF WORK PACKAGE

OPERATOR TROUBLESHOOTING PROCEDURE
TROUBLESHOOTING PROCEDURES

INITIAL SETUP:

References
WP 0013

Equipment Condition
Unloaded/cleared (WP 0005)

WARNING

Before performing any of the following procedures, visually and physically inspect to ensure the weapon is clear/unloaded.

TROUBLESHOOTING PROCEDURE**SYMPTOM**

Cartridge does not feed.

MALFUNCTION

Magazine not fully seated in grip module.

CORRECTIVE ACTION

STEP 1. Strike or tap up on bottom of magazine.

STEP 2. Pull and release slide in an attempt to feed cartridge.

MALFUNCTION

Magazine catch fails to retain magazine in grip module.

CORRECTIVE ACTION

Notify Maintainer.

MALFUNCTION

Weak magazine spring (pistol functions with new magazine).

CORRECTIVE ACTION

Replace magazine assembly (WP 0013).

MALFUNCTION

Improperly assembled magazine.

CORRECTIVE ACTION

Correctly assemble magazine (WP 0013).

MALFUNCTION

Dirty or damaged ammunition.

CORRECTIVE ACTION

Replace ammunition (WP 0005).

MALFUNCTION

Debris in slide or grip module.

CORRECTIVE ACTION

Clean and lubricate pistol (WP 0013).

SYMPTOM

Cartridge does not chamber.

MALFUNCTION

Dirty or damaged ammunition.

CORRECTIVE ACTION

Replace ammunition (WP 0005).

MALFUNCTION

Obstruction/dirt in chamber and bore.

CORRECTIVE ACTION

Clean chamber and bore (WP 0013).

MALFUNCTION

Damaged or broken recoil spring guide assembly.

CORRECTIVE ACTION

Notify Maintainer.

SYMPTOM

Slide does not lock fully forward.

MALFUNCTION

Dirty or damaged ammunition.

CORRECTIVE ACTION

Replace ammunition (WP 0005).

MALFUNCTION

Obstruction or dirt in chamber and bore.

CORRECTIVE ACTION

Clean chamber and bore (WP 0013).

MALFUNCTION

Damaged or broken recoil spring guide assembly.

CORRECTIVE ACTION

Notify Maintainer.

SYMPTOM

Pistol does not fire

MALFUNCTION

Slide not fully forward in battery.

CORRECTIVE ACTION

Pull slide to rear and release.

MALFUNCTION

Damaged or broken striker assembly.

CORRECTIVE ACTION

STEP 1. Field strip pistol (WP 0013).

STEP 2. Press up on striker safety lock (Figure 1, Item 2) while pressing striker pin (Figure 1, Item 1) forward.

STEP 3. Visually inspect for striker pin protrusion (Figure 1, Item 3) through breech face.

STEP 4. If striker pin is not visible, notify Maintainer.

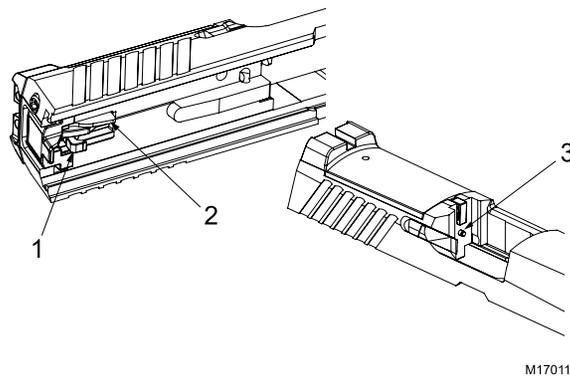


Figure 1. Striker Pin.

MALFUNCTION

Broken trigger, trigger bar, or trigger bar spring (trigger moves but does not release striker).

CORRECTIVE ACTION

Notify Maintainer.

SYMPTOM

Cartridge does not extract.

MALFUNCTION

Dirty or obstructed chamber.

CORRECTIVE ACTION

Clean chamber and barrel (WP 0013).

MALFUNCTION

Dirty or damaged ammunition.

CORRECTIVE ACTION

Replace ammunition (WP 0005).

MALFUNCTION

Broken or weak extractor spring.

CORRECTIVE ACTION

Notify Maintainer.

MALFUNCTION

Broken extractor.

CORRECTIVE ACTION

Notify Maintainer.

SYMPTOM

Cartridge does not eject.

MALFUNCTION

Broken ejector (part of receiver).

CORRECTIVE ACTION

Notify Maintainer.

SYMPTOM

Dead trigger/unable to insert magazine.

MALFUNCTION

Takedown safety lever incorrectly positioned.

CORRECTIVE ACTION

STEP 1. Lock slide to rear with slide catch lever to disengage takedown safety lever.

STEP 2. Press slide catch lever to release slide forward and attempt to insert magazine.

STEP 3. If problem persists, notify Maintainer.

END OF WORK PACKAGE

CHAPTER 4
MAINTENANCE INSTRUCTIONS
FOR
MODULAR HANDGUN SYSTEM (MHS)

OPERATOR MAINTENANCE**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) INTRODUCTION**

GENERAL

Preventive maintenance checks and service (PMCS) is the care, servicing, inspection, detection, and correction of minor faults before these faults cause serious damage, failure, or injury. The PMCS table provides easy access to the schedule of checks and services for the MHS. Service intervals are periods of time within which the equipment must be checked and serviced to maintain full operation and reduce failures.

OPERATOR REQUIREMENTS

1. Perform PMCS each time pistol is used.
2. Perform PMCS in order.
3. Perform BEFORE PMCS just before shooting pistol.
4. Perform AFTER PMCS right after shooting pistol.
5. Attention should be paid to WARNINGS, CAUTIONS, and NOTES.
6. Use DA Form 2404/DA Form 5988-E, Equipment Inspection and Maintenance Worksheet, to record any faults that are discovered before, during, or after use unless you can perform repair. DO NOT record faults you fix.

EXPLANATION OF COLUMN ENTRIES**Item No. Column**

Numbers in this column are for reference. Item numbers appear in the order in which checks and services must be performed for the intervals listed.

Interval Column

This column indicates when each check is to be performed in the procedure column.

Item To Be Checked or Serviced Column

This column lists the items to be checked or serviced.

Procedure Column

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.

Not Mission Capable (NMC) if: Column

Information in this column describes what faults will keep the equipment from being capable of performing its primary mission. If applicable, following Not Mission Capable (NMC) If: condition is a suggested remedy that will correct the discovered discrepancy. Follow standard operating procedures (SOP) for maintaining the equipment or reporting equipment failure. Report any malfunctions or failures on DA Form 2404/DA Form 5988-E (Equipment Inspection and Maintenance Worksheet) or refer to DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

INITIAL SETUP:

References

DA Form 2404
DA Form 5988-E
WP 0013

WP 0014

Equipment Condition

Unloaded/cleared (WP 0005)

Table 1. Preventive Maintenance Checks and Services for MHS.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	NOT MISSION CAPABLE (NMC) IF:
WARNING				
To prevent personnel injury or death, clear weapon before performing PMCS.				
1	Before	MHS	a. Visually inspect pistol for damage or missing components.	There are damaged or missing components.
			b. Clean and lubricate pistol (WP 0013).	
2	Before	Magazine Catch	a. Insert empty magazine into magazine well until fully seated in place. Hold pistol upright. Magazine should remain seated.	a. Magazine does not remain seated.
			b. Prepare to catch magazine. Press magazine catch. Magazine should fall free.	b. Magazine does not fall free.
3	Before	Sights	<p style="text-align: center;">WARNING</p> <div style="text-align: center;">  </div> <p>Sights contain tritium. Notify RSO if sights are damaged. Wash hands immediately if contact is made with tritium.</p> <p style="text-align: center;">NOTE</p> <p>Front sights illuminate green.</p> <p>Rear sights illuminate orange.</p> <p>Inspect sights for tritium illumination.</p>	Sights are not illuminated or tritium vials are missing.
4	Before	Magazine Assembly	a. Visually inspect for missing or damaged parts.	a. There are missing or damaged parts.
			b. Depress follower with finger and release. Follower should move freely.	b. Follower does not return to uppermost position.
			c. Clean and lubricate magazine (WP 0013).	

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	NOT MISSION CAPABLE (NMC) IF:
5	Before	Slide Catch Lever	Pull slide to rear while pushing up on slide catch lever. Slide should lock to the rear.	Slide does not lock to rear.
6	Before	Loaded Chamber Indicator (LCI)	Lift up on LCI. LCI should be under spring tension and return to lowered position.	LCI does not return to lowered position or no spring tension.
7	Before	Recoil Spring Guide Assembly	Field strip pistol (WP 0013).	
			Inspect recoil spring for damage.	Spring is damaged or coils unwind.
8	Before	MHS	Perform safety/function check (WP 0014).	MHS fails safety/function check.
9	After	MHS	Field strip pistol. Clean and lubricate. Inspect all parts for serviceability (WP 0013).	Any parts require replacement.
10	After	Magazine Assembly	Disassemble magazine. Clean and lubricate. Inspect all parts for serviceability (WP 0013).	Any parts require replacement.
11	After	Loaded Chamber Indicator	Lift up on LCI. LCI should be under spring tension and return to lowered position.	LCI does not return to lowered position or no spring tension.
12	After	Recoil Spring Guide Assembly	Field strip pistol (WP 0013).	
			Inspect recoil spring for damage.	Spring is damaged or coils unwind.
13	After	MHS	Perform safety/function check (WP 0014).	MHS fails safety/function check.

MANDATORY REPLACEMENT PARTS

There are no replacement parts required for these PMCS procedures.

END OF WORK PACKAGE

CHAPTER 5
MAINTENANCE INSTRUCTIONS
FOR
MODULAR HANDGUN SYSTEM (MHS)

OPERATOR MAINTENANCE**FIELD STRIPPING**

INITIAL SETUP:**Materials**

Bore brush (WP 0024, Item 1)
Cleaning brush (WP 0024, Item 2)
Cleaning rod (WP 0024, Item 8)
Cleaning patch (WP 0024, Item 6)
Cleaner, Lubricant, Preservative (CLP)
(WP 0024, Item 3)
LAW (WP 0024, Item 4)

LSA (WP 0024, Item 5)
Swab (WP 0024, Item 9)
Wiping Rags (WP 0024, Item 7)

References

WP 0005
WP 0014

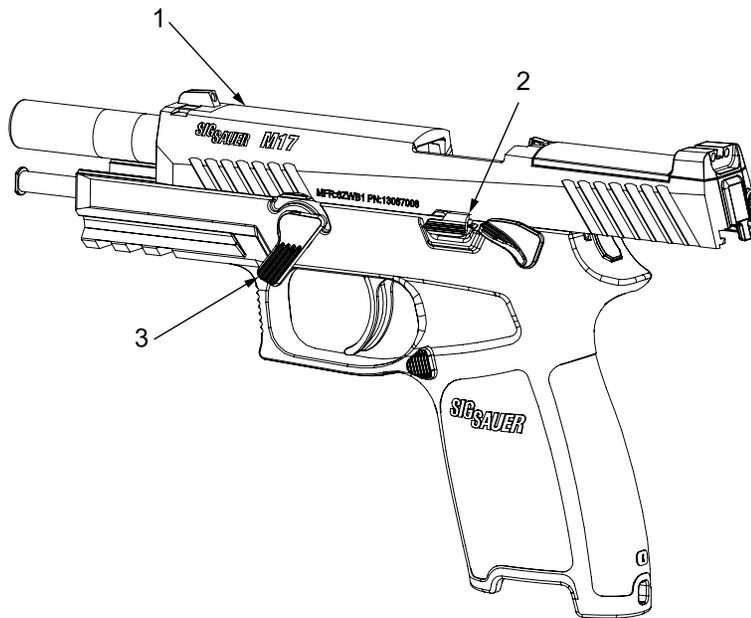
DISASSEMBLY

1. Unload/clear weapon (WP 0005).
2. Push up on slide catch lever (Figure 1, Item 2) and pull slide (Figure 1, Item 1) to rear. Slide will lock in place.

NOTE

Ensure recoil spring guide assembly is parallel to barrel.

3. Rotate takedown lever (Figure 1, Item 3) clockwise.



M17012

Figure 1. Field Stripping.

4. Pull slide (Figure 2, Item 1) to rear of receiver to release slide catch lever (Figure 2, Item 3).
5. Pull slide forward and remove from receiver rails (Figure 2, Item 2) maintaining grip around slide and recoil spring guide assembly (Figure 2, Item 4).

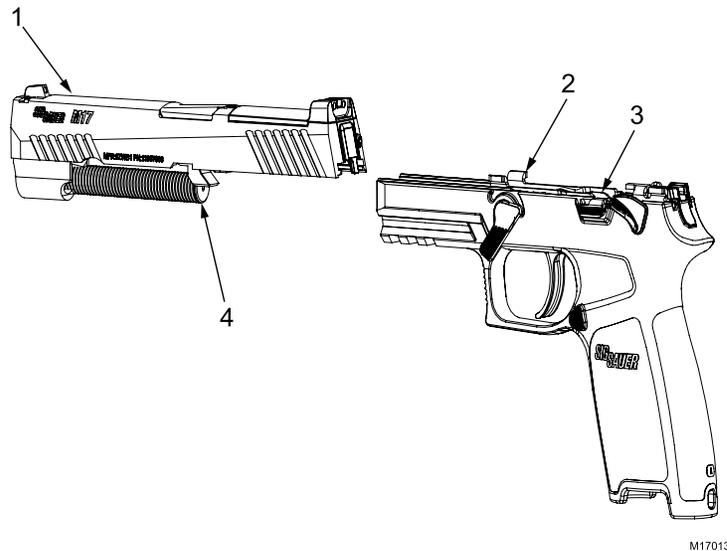


Figure 2. Slide Removal.

WARNING



Due to spring tension, uncontrolled release of recoil spring guide assembly could result in injury to personnel, damage to assembly, or loss of assembly.

6. Slightly compress recoil spring guide assembly (Figure 3, Item 1) while lifting and removing from slide. Allow recoil spring guide assembly to expand slowly.

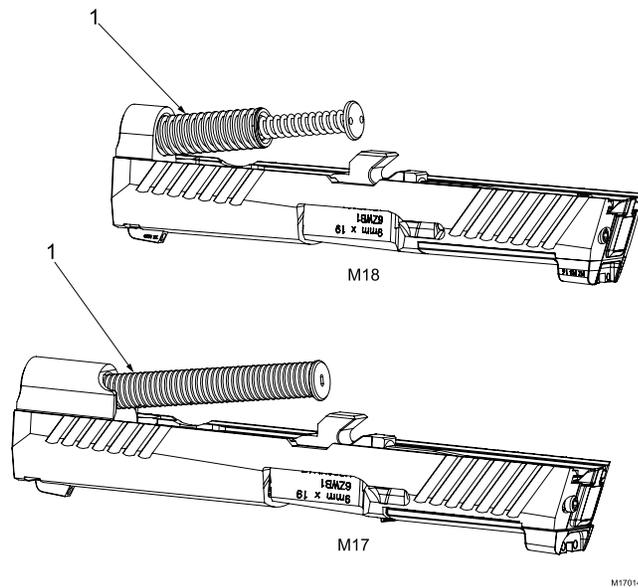


Figure 3. Recoil Spring Guide Assembly Removal.

7. Lift and remove barrel (Figure 4, Item 1) from slide (Figure 4, Item 2).

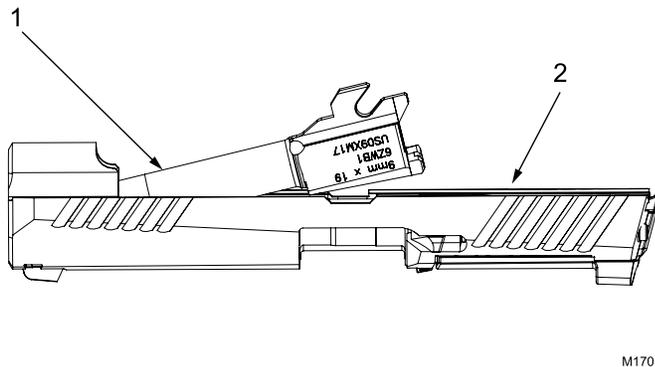


Figure 4. Barrel Removal.

END OF TASK

MAGAZINE DISASSEMBLY**WARNING**

Magazine spring is under pressure. Keep magazine pointed away from face to avoid injury to personnel.

1. Push magazine insert (Figure 5, Item 4) slightly forward and then down until the magazine floorplate (Figure 5, Item 5) can be pushed forward off the magazine tube (Figure 5, Item 1).
2. Remove magazine follower (Figure 5, Item 2), spring (Figure 5, Item 3), and insert (Figure 5, Item 4) from magazine tube (Figure 5, Item 1).

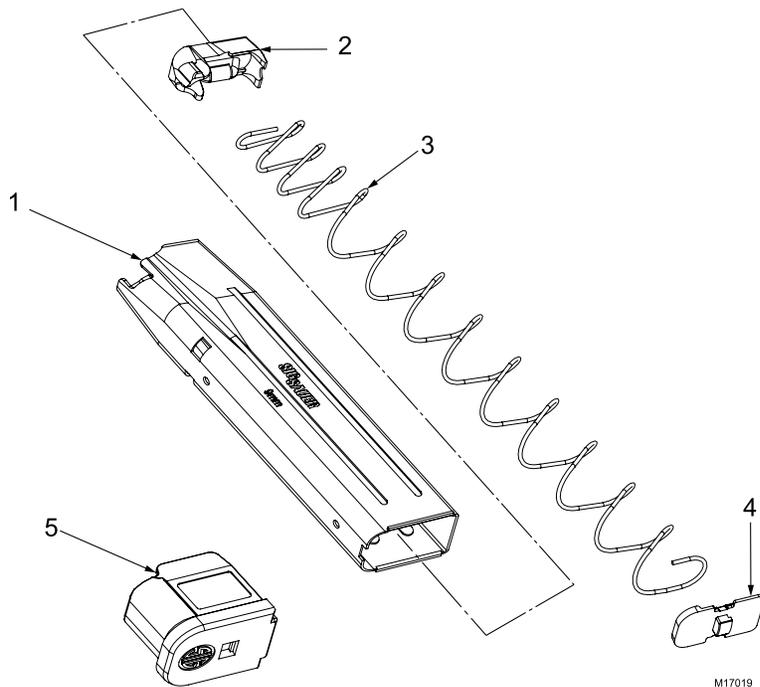


Figure 5. Magazine Disassembly.

END OF TASK

CLEANING

WARNING

Always clear weapon before cleaning. Ensure weapon is pointed in a safe direction. Failure to comply may result in death or injury to personnel.

CAUTION

Unauthorized or excessive use of cleaning solvents may be harmful to finish of pistol.

Bore brush is for cleaning bore only. Use of bore brush on any other part of pistol will cause damage.

Barrel

1. Using cleaning rod, insert cleaning patch soaked with CLP in chamber end of barrel and push out muzzle to remove loose firing residues and soften carbon deposits.
2. Insert bore brush into chamber end of barrel and push completely through. Repeat several times to loosen carbon deposits.
3. Wipe loose carbon deposits from bore with another clean patch soaked with CLP.
4. Dry barrel by pushing swab through bore. Repeat as necessary until clean swab can be observed.

Slide Assembly

1. Clean slide assembly (Figure 6, Item 1) with cloth. A soft brush and CLP can assist in removal of excess dirt and carbon buildup. Ensure the breech face (Figure 6, Item 2), slide rails (Figure 6, Item 3), and extractor (Figure 6, Item 4) are free of excess dirt and residue.
2. Wipe dry with a cloth.

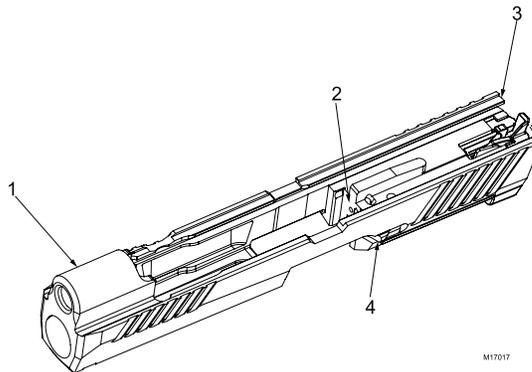


Figure 6. Slide Cleaning.

Recoil Spring Guide Assembly

Clean recoil spring guide assembly using CLP and a soft brush or cloth.

Receiver/Grip Module Assembly

1. Use wiping rag to clean receiver/grip module assembly.
2. Use cotton swabs to clean hard to reach areas. Pay special attention to the frame rails (Figure 7, Item 1), takedown lever (Figure 7, Item 4), and slide catch lever (Figure 7, Item 3).
3. Clean the magazine well (Figure 7, Item 2) of any dirt, dust, or residue with wiping rag.

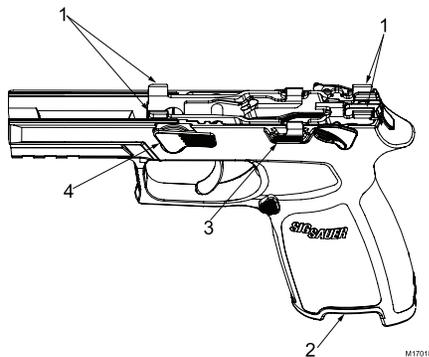


Figure 7. Receiver/Grip Module Cleaning.

Magazine

1. Wipe magazine tube (Figure 8, Item 1) and follower (Figure 8, Item 2) with wiping rag. Clean magazine tube and follower with CLP and a soft brush.
2. Moisten a cloth with CLP and wipe magazine spring (Figure 8, Item 3), magazine insert (Figure 8, Item 4), and floorplate (Figure 8, Item 5) clean.

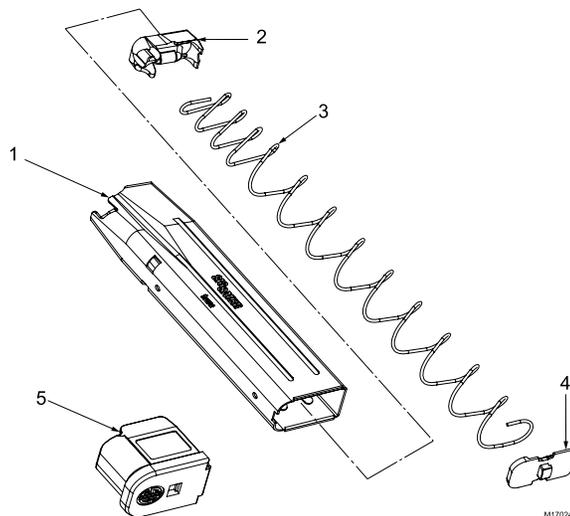


Figure 8. Magazine Cleaning.

END OF TASK

INSPECTION**WARNING**

Sights contain tritium. Notify RSO if sights are damaged. Wash hands immediately if contact is made with tritium.

NOTE

If faults are found during inspection that cannot be corrected, notify Maintainer.

Slide and Barrel Assembly

1. Check front sight (Figure 9, Item 1) and rear sights (Figure 9, Item 2) on slide (Figure 9, Item 3) for looseness, cracks, or missing.
2. Check slide (Figure 9, Item 3) for cracks.
3. Inspect barrel (Figure 9, Item 5) for pitting or obstructions.
4. Inspect barrel lug (Figure 9, Item 4) for cracks and burrs.

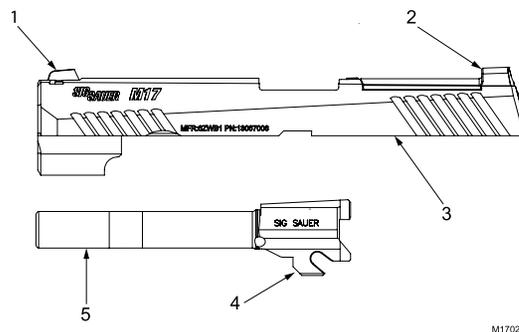


Figure 9. Slide and Barrel Inspection.

Recoil Spring Guide Assembly

NOTE

Steps 1 and 2 are for M17.

1. Ensure recoil spring (Figure 10, Item 1) is not broken, bent, or damaged.
2. Ensure recoil spring guide (Figure 10, Item 2) is straight, smooth, and free of cracks and burrs.

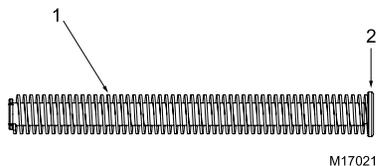


Figure 10. M17 Recoil Spring Guide Assembly.

NOTE

Steps 3 and 4 are for M18.

3. Inspect outer recoil spring (Figure 11, Item 1) and braided inner recoil spring (Figure 11, Item 3) for cracks, bends, or other damaged.
4. Ensure inner recoil spring guide (Figure 11, Item 2) and outer recoil spring guide (Figure 11, Item 4) are straight, smooth, and free of cracks and burrs.

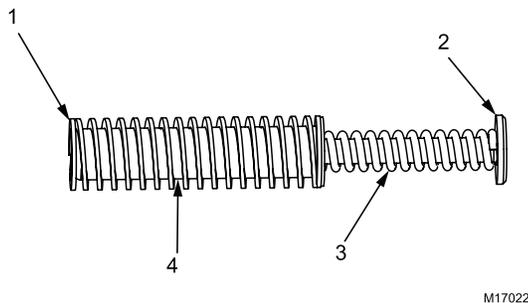


Figure 11. M18 Recoil Spring Guide Assembly.

Receiver/Grip Module

1. Ensure receiver and receiver rails (Figure 12, Item 1) are free of bends, chips, and cracks.
2. Ensure free movement of slide catch lever (Figure 12, Item 3), magazine catch (Figure 12, Item 2), and takedown lever (Figure 12, Item 4).

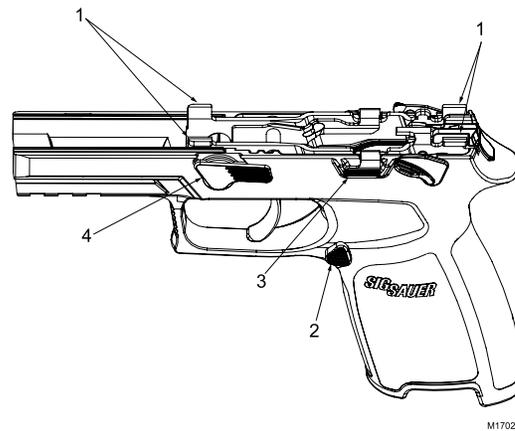


Figure 12. Receiver/Grip Module Inspection.

Magazine

1. Ensure magazine spring (Figure 13, Item 3), follower (Figure 13, Item 2), floorplate (Figure 13, Item 5), and insert (Figure 13, Item 4) are free from damage.
2. Ensure that lips and body of magazine tube (Figure 13, Item 1) are not excessively bent and are free of cracks and burrs.

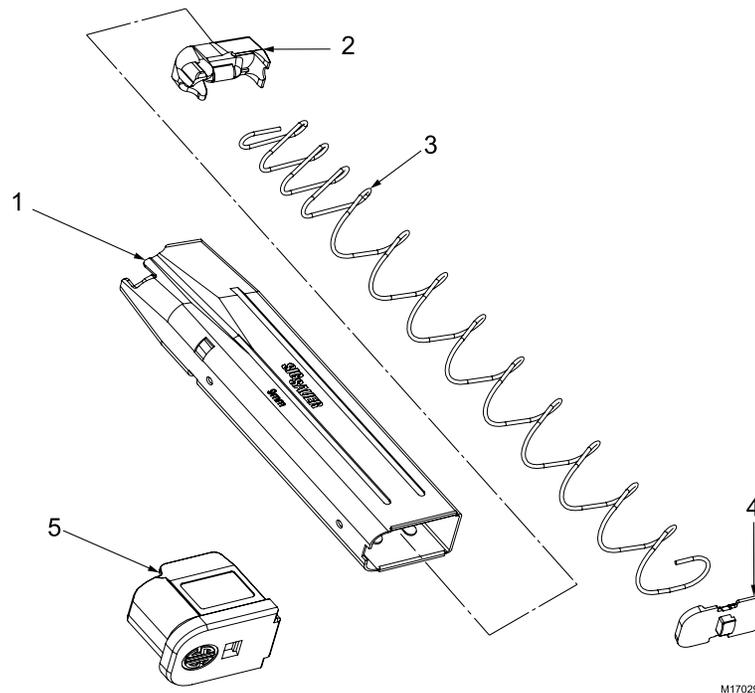


Figure 13. Magazine Inspection.

END OF TASK

LUBRICATION

CAUTION

Do not mix lubricants on same weapon. Thoroughly clean the weapon when changing from one cleaner/lubricant to another. Failure to comply may result in malfunction or damage to equipment.

1. CLP, LSA, and LAW are the only lubricants authorized for MHS.
2. Under all but the coldest arctic conditions, CLP is the cleaner/lubricant to use on pistol.
3. Use LAW at temperatures below -10°F (-23°C).
4. Always shake container well before use.
5. Apply using a clean rag or swab.
6. Lightly lubricated means lubricant is a film barely visible to eye.
7. Generously lubricated means lubricant is thick enough to spread with finger.

Barrel

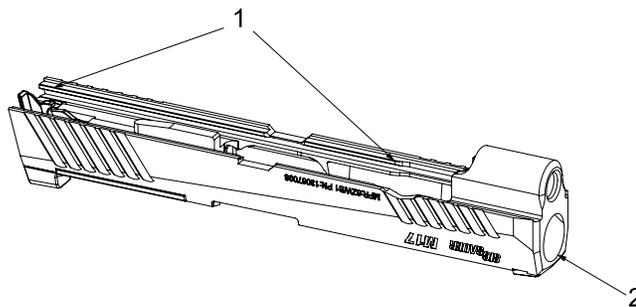
Lightly lubricate exterior surfaces of barrel.

Slide Assembly

CAUTION

Do not lubricate striker or allow lubricant to flow into striker. Failure to comply may result in damage to equipment.

1. Lightly lubricate rails (Figure 14, Item 1) on both sides of slide.
2. Lightly lubricate bushing surface of slide (Figure 14, Item 2).



M17026

Figure 14. Slide Lubrication.

Recoil Spring Guide Assembly

Lightly lubricate recoil spring and spring guide.

Receiver/Grip Module Assembly

1. Lubricate four receiver rails (Figure 15, Item 1) with one drop of lubricant per rail.

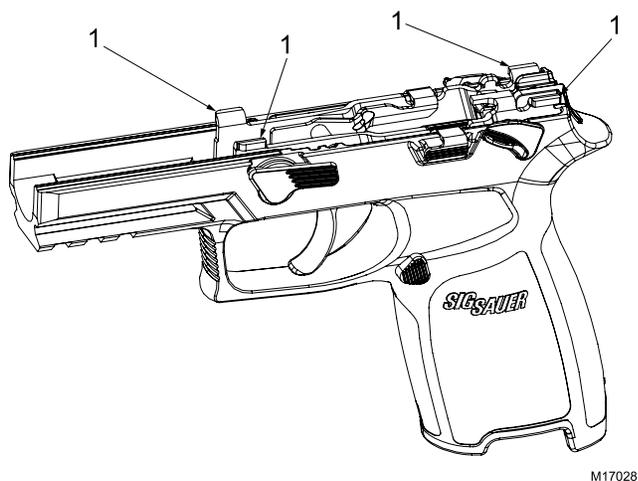


Figure 15. Receiver Rails Lubrication.

END OF TASK

MAGAZINE ASSEMBLY

1. Position magazine follower (Figure 16, Item 2) on spring (Figure 16, Item 3).
2. Align flat side of insert (Figure 16, Item 4) with flat side of magazine tube (Figure 16, Item 1) and compress spring fully into tube until insert is flush with magazine tube bottom.
3. Holding magazine insert (Figure 16, Item 4) in place, slide floorplate (Figure 16, Item 5) onto magazine tube lips until floorplate is locked in place by insert.

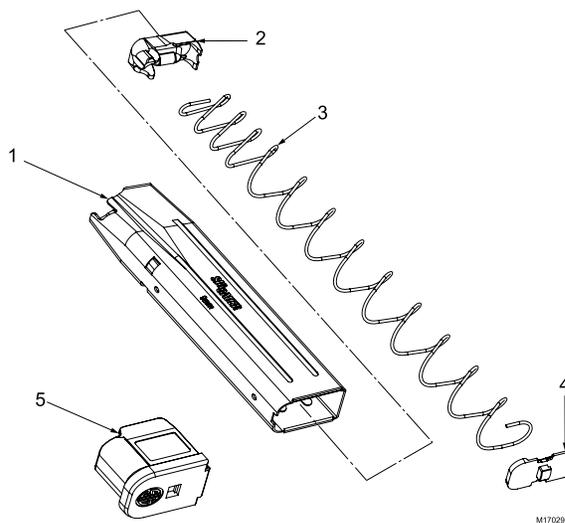


Figure 16. Magazine Assembly.

END OF TASK

ASSEMBLY

1. Install muzzle of barrel (Figure 17, Item 2) into forward open end of slide (Figure 17, Item 1) then lower barrel into slide.

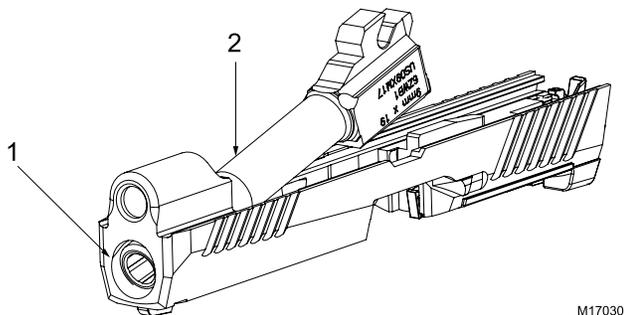


Figure 17. Barrel Installation.

CAUTION

During recoil spring guide assembly insertion, spring tension must be maintained until spring guide is fully seated on cutaway on barrel lug to prevent damage or loss of spring.

NOTE

Step 2 is for M17.

2. Install rectangular end of the full size recoil spring guide assembly (Figure 18, Item 2) into slide (Figure 18, Item 1). Slightly compress recoil spring and lower spring guide until fully seated on barrel lug (Figure 18, Item 3).

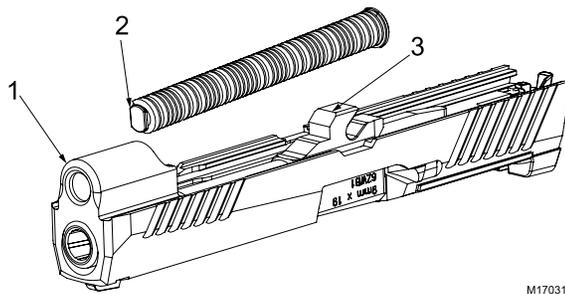


Figure 18. M17 Recoil Spring Guide Assembly Installation.

NOTE

Step 3 is for M18.

3. Install large end of compact recoil spring guide assembly (Figure 19, Item 2) into slide (Figure 18, Item 1). Slightly compress recoil spring and lower spring guide until fully seated on barrel lug (Figure 19, Item 3).

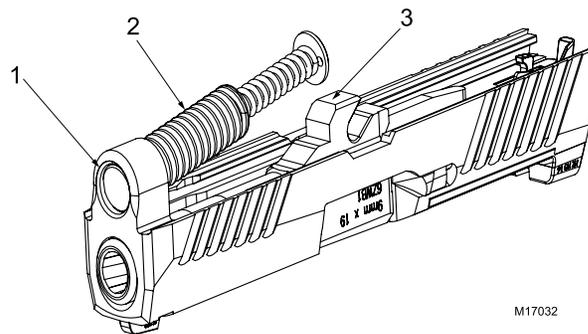


Figure 19. M18 Recoil Spring Guide Assembly Installation.

CAUTION

The takedown safety lever will prevent insertion of magazine into receiver/grip module when the slide is removed. Attempting to force the magazine into receiver/grip module may result in damage to pistol.

4. Ensure takedown lever (Figure 20, Item 3) is rotated fully clockwise.
5. Guide slide assembly (Figure 20, Item 1) onto receiver rails (Figure 20, Item 2).

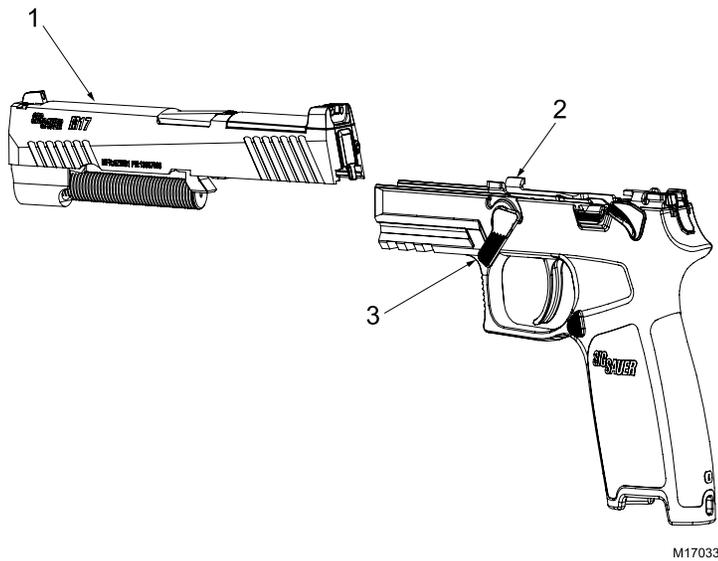


Figure 20. Slide Installation.

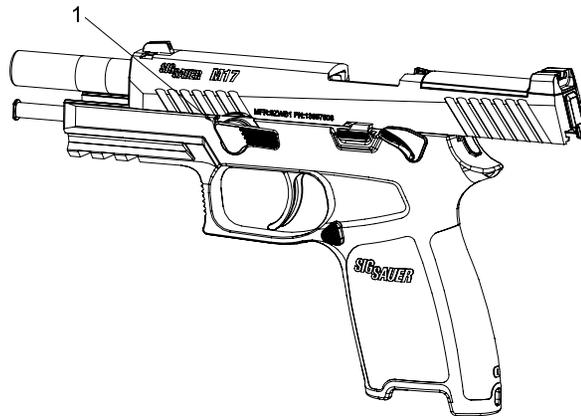
6. Pull slide to rear while pushing up on slide catch lever (Figure 21, Item 1) and lock slide to rear.



M17034

Figure 21. Slide Locked to Rear.

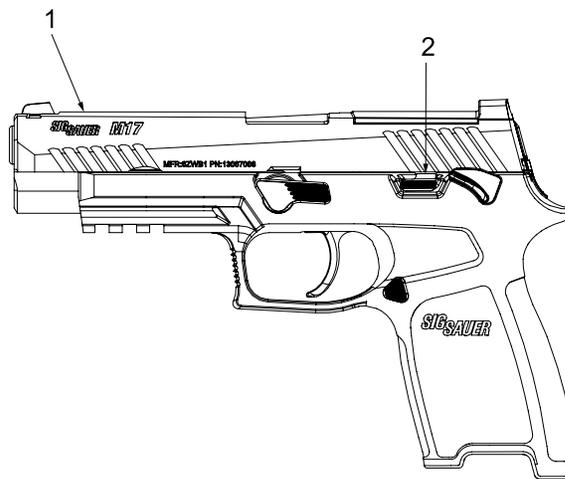
7. Rotate takedown lever (Figure 22, Item 1) counterclockwise until it stops.



M17035

Figure 22. Takedown Lever.

- Press down on slide catch lever (Figure 23, Item 2) to release slide (Figure 23, Item 1) to forward position.



M17036

Figure 23. Slide Forward.

- Perform safety/function check (WP 0014).

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE**SAFETY/FUNCTION CHECK**

INITIAL SETUP:**References**WP 0005

WARNING

Before performing safety/function check, pistol must be cleared and magazine removed. Failure to comply may result in death or injury to personnel.

1. Unload/clear weapon (WP 0005).
2. Insert empty magazine (Figure 1, Item 5) into magazine well (Figure 1, Item 4). Magazine catch (Figure 1, Item 6) must lock magazine in place.
3. Grasp slide (Figure 1, Item 1) and pull completely to rear until slide catch lever (Figure 1, Item 2) locks slide open.
4. Press magazine catch (Figure 1, Item 6). Magazine must fall free of pistol under its own weight.
5. Pull back and release slide (Figure 1, Item 1) to forward position.
6. Push up on manual safety lever (Figure 1, Item 3) to engage safety.
7. Press trigger (Figure 1, Item 7) to the rear. Striker should NOT be released.
8. Push down manual safety lever (Figure 1, Item 3) to disengage safety.
9. Press trigger and hold (Figure 1, Item 7) to the rear. Striker should be released and an audible click should be heard.
10. While still holding trigger (Figure 1, Item 7) pressed to rear, pull slide (Figure 1, Item 1) completely to the rear and release slide.
11. Release trigger (Figure 1, Item 7). A light audible click should be heard and felt as the striker resets.
12. Press trigger (Figure 1, Item 7). The striker should release and you should hear and feel a loud audible click.

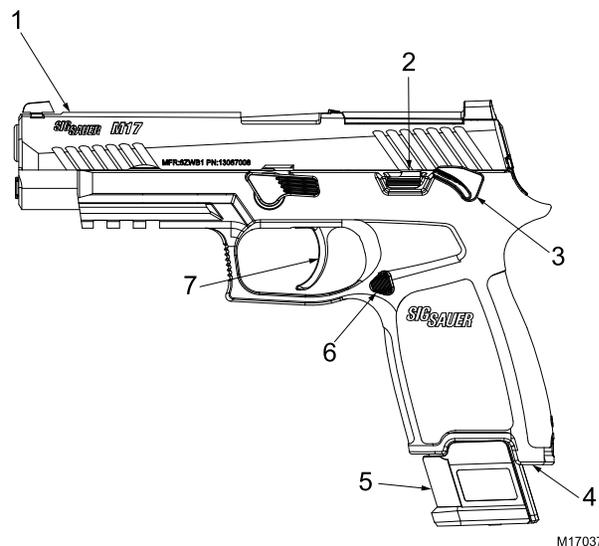


Figure 1. Safety/Function Check.

END OF WORK PACKAGE

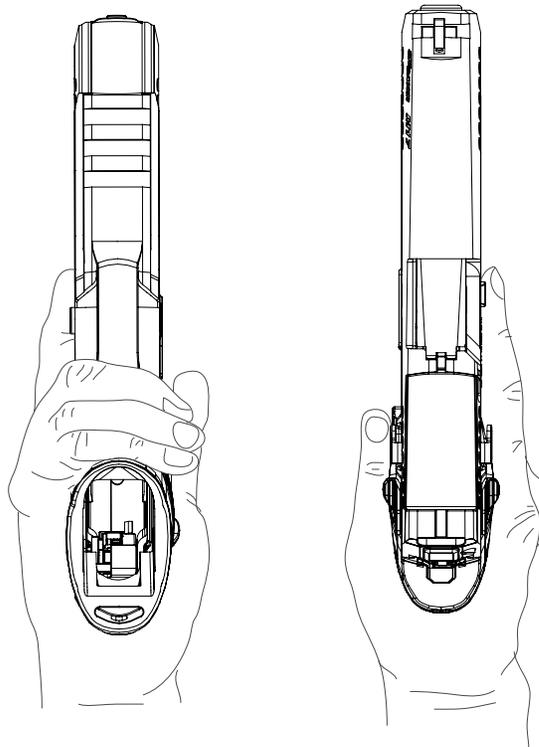
OPERATOR MAINTENANCE**GRIP MODULE SIZING**

INITIAL SETUP:NOT APPLICABLE

NOTE

This is a starting point/guideline only. Grip fit should be based on shooter preference. Gloves may change fit of grip module.

1. Position pistol in line with forearm (Figure 1).
2. Position trigger finger alongside of grip module and wrap remaining fingers around grip (Figure 1).



M17038

Figure 1. Hand Placement.

3. Attempt to lay trigger finger on trigger. Finger should lay naturally/comfortably across trigger. Shooter should not have to alter grip to reach trigger.
4. Shooter should be able to manipulate magazine catch, manual safety, and slide catch lever with the firing hand.
5. If shooter cannot complete steps 1-4, repeat procedure with a different size grip module.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
GRIP MODULE REPLACEMENT

INITIAL SETUP:**References**

WP 0013

CAUTION

Army only: To prevent damage to equipment, procedures in this work package should be performed by unit armorer.

Air Force only: Changing of the grip module will only be accomplished by Combat Arms qualified personnel with AFSC 3P0XXB, SEI 312, or properly qualified Civilian Equivalent Personnel.

Navy only: To prevent damage to equipment, changing grip modules shall be performed by trained armorers.

GRIP MODULE REPLACEMENT

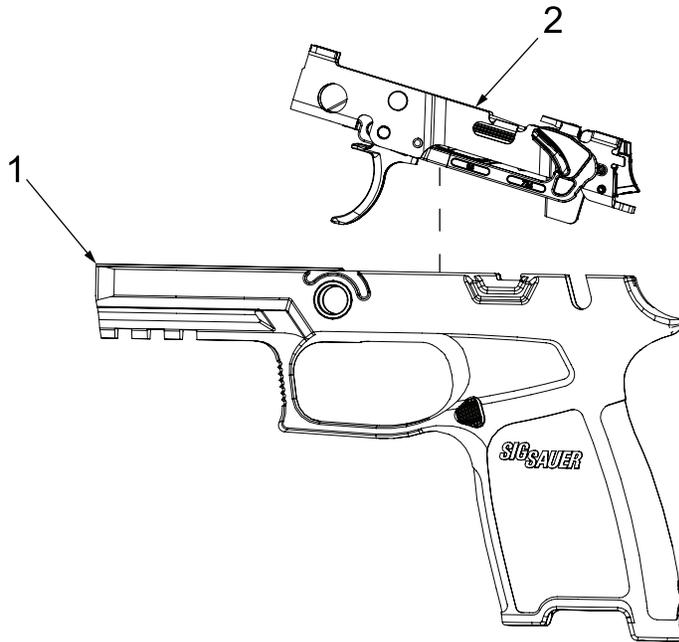
1. Remove slide assembly (WP 0013).
2. Remove takedown lever (Figure 1, Item 1) from receiver/grip module (Figure 1, Item 2).
3. Disengage manual safety by pressing down manual safety lever (Figure 1, Item 3).



M17040

Figure 1. Takedown Lever Removal.

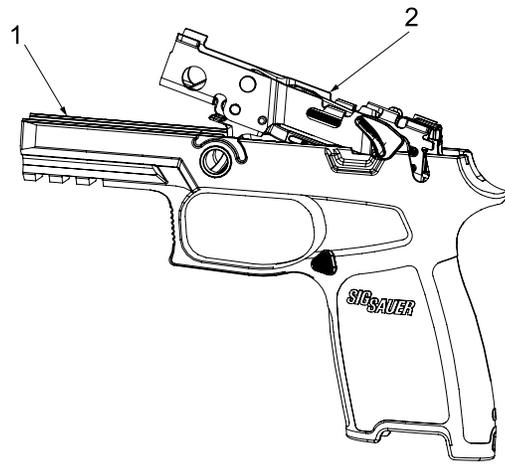
4. Remove receiver (Figure 2, Item 2) by pushing receiver slightly forward then lifting upward from grip module (Figure 2, Item 1).



M17041

Figure 2. Receiver Removal.

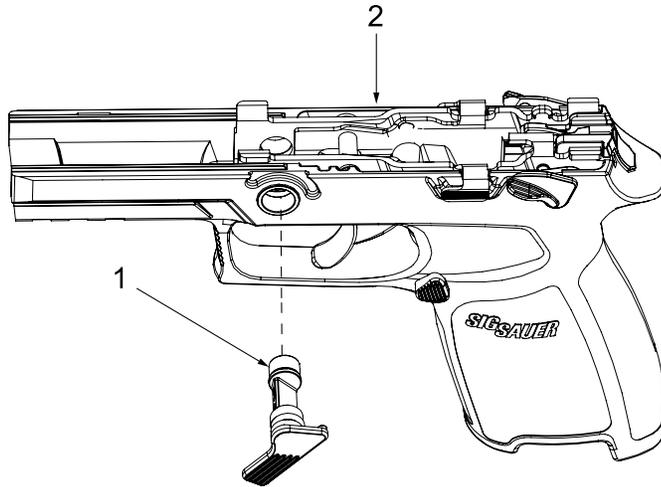
5. Insert rear tabs of receiver into new grip module (Figure 3, Item 1). Press trigger slightly rearward and push receiver assembly (Figure 3, Item 2) down into grip module.



M17042

Figure 3. Receiver Installation.

6. Align takedown lever (Figure 4, Item 1) and push into receiver/grip module (Figure 4, Item 2) and rotate clockwise until it stops.



M17043

Figure 4. Takedown Lever Installation.

7. Install slide on receiver/grip module (WP 0013).

END OF WORK PACKAGE

OPERATOR MAINTENANCE
AUTHORIZED AMMUNITION

INITIAL SETUP:

NOT APPLICABLE

WARNING

Use M1152 ammunition only. Use of other ammunition is at discretion and responsibility of local commander.



Do not fire heavily corroded or dented cartridges, cartridges with loose bullets, or any other defective rounds detected by visual inspection. Failure to comply may result in death or injury to personnel.



Figure 1. Ammunition (1 of 2).



Figure 2. Ammunition (2 of 2).

In Figure 1, from far left to right, M1152 Full Metal jacket (FMJ) Ball (with cannelure), M1153-Special Purpose (SP), M1156 Dummy, Drilled, Inert (DDI).

In Figure 2, from far left to right, M882 Ball (with cannelure), M882 Ball (without cannelure), MK243 MOD 0 JACKETED HOLLOW PT, M917A1 DUMMY ROUND, Frangible (AIR FORCE TRAINING ONLY).

AMMUNITION WHICH FAILS TO FIRE

Dispose of any ammunition which fails to fire according to authorized procedures.

CARE, HANDLING, AND PRESERVATION

1. Protect ammunition from mud, sand, and water. If ammunition gets wet or dirty, wipe it off at once with a clean dry cloth. Wipe off light corrosion as soon as it is discovered. Turn in heavily corroded cartridges.
2. Do not expose ammunition to direct rays of sun. If powder is hot, excessive pressure may develop when pistol is fired.

3. Do not oil or grease ammunition. Dust and other abrasives that collect on greasy ammunition may cause damage to operating parts of pistol. Oiled cartridges produce excessive chamber pressure.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
PREPARATION FOR STORAGE

INITIAL SETUP:

References
AR 190-11

DoD 5100.76-M
SPI 00-317-2468

Requirements for storage will be in accordance with (IAW) DoD 5100.76-M, Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives, and follow guidance in AR 190-11, Physical Security of Arms, Ammunition and Explosives.

Air Force Only: Prepare for storage IAW Specialized Packaging Instruction (SPI) 00-317-2468.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
PREPARATION FOR SHIPMENT

INITIAL SETUP:

References
AR 190-11

DoD 5100.76-M
SPI 00-317-2468

Requirements for shipment will be in accordance with (IAW) DoD 5100.76-M, Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives, and follow guidance in AR 190-11, Physical Security of Arms, Ammunition and Explosives.

Air Force Only: Prepare for shipment IAW Specialized Packaging Instruction (SPI) 00-317-2468.

END OF WORK PACKAGE

OPERATOR MAINTENANCE

TRANSPORTABILITY

INITIAL SETUP:

NOT APPLICABLE

There are no requirements related to transport of MHS.

END OF WORK PACKAGE

CHAPTER 6
SUPPORTING INFORMATION
FOR
MODULAR HANDGUN SYSTEM

OPERATOR MAINTENANCE
REFERENCES

SCOPE

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

COMMON TABLE OF ALLOWANCES (CTA)

CTA 8-100	Army Medical Department Expendable/Durable Items
CTA 50-909	Field and Garrison Furnishings and Equipment
CTA 50-970	Expendable/Durable Items (except: Medical, Class V, Repair Parts and Heraldic Items)

FORMS

AFTO Form 22	Technical Manual Change Recommendation and Reply
DA Form 2028	Recommended Changes to Publications and Blank Forms
DA Form 2404	Equipment Inspection and Maintenance
DA Form 2408-9	Equipment Control Record
DA Form 5988-E	Equipment Inspection and Maintenance (Electronic)
SF 368	Product Quality Deficiency Report

TECHNICAL MANUALS (TM) AND TECHNICAL ORDERS (TO)

TM 750-244-7	Procedures for Destruction of Equipment in Federal Supply Classifications 1000, 1005, 1010, 1015, 1025, 1030, 1055, 1090, and 1095 to Prevent Enemy Use
TO 00-5-1	AF Technical Order System (ATOS)
TO 00-20	Technical Manual Maintenance Data Documentation
TO 00-35D-54	Materiel Deficiency Reporting and Investigation System

OTHER

AFI 21-101	Aircraft and Equipment Maintenance Management
AFMAN 44-163 (I)	First Aid
AR 190-11	Physical Security of Arms, Ammunition and Explosives
AR 700-138	Army Logistics Readiness and Sustainability
DA PAM 738-751	Withholding of Unclassified Technical Data from Public Disclosure
DA PAM 750-8	Withholding of Unclassified Technical Data from Public Disclosure
DoD 5100.76-M	Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives
DoD Directive 5230.25	Withholding of Unclassified Technical Data from Public Disclosure
SPI 00-317-2468	Specialized Packaging Instruction
TC 4-02.1	First Aid

END OF WORK PACKAGE

OPERATOR MAINTENANCE**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS**

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS INTRODUCTION**Scope**

This work package lists COEI and BII for the MHS to help you inventory items for safe and efficient operation of the equipment.

General

The COEI and BII information is divided into the following lists:

Components of End Item (COEI). This list is for information purposes only and is not authority to requisition replacements. These items are part of the MHS. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Items of COEI are removed and separately packaged for transportation or shipment only when necessary. Illustrations are furnished to help you find and identify the items.

Basic Issue Items (BII). These essential items are required to place the MHS in operation, operate it, and to do emergency repairs. Although shipped separately packaged, BII must be with the MHS during operation and when it is transferred between property accounts. Listing these items is your authority to request/requisition them for replacement based on authorization of the end item by the TOE/MTOE. Illustrations are furnished to help you find and identify items.

Explanation Of Columns In The COEI List And BII List

Column (1) Illus Number. Number of item illustrated.

Column (2) National Stock Number NSN. Identifies stock number of item to be used for requisitioning purposes.

Column (3) Description, Part Number/Commercial and Government Entity Code (CAGEC). Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. When applicable, the stowage location of the COEI and BII is also included in this column. The last line below the description is the CAGEC (in parentheses) and the part number.

Column (4) Usable On Code. When applicable, gives you a code if the item you need is not the same for different models of equipment. These codes are identified below:

Code — Used on

MHF — M17 Modular Pistol

MHC — M18 Compact Modular Pistol

MHG — GO Pistol

Column (5) 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 (6) Qty Rqr. Indicates the quantity required.

Components of End Item (COEI)

There are no COEI items for the MHS.

OPERATOR MAINTENANCE
ADDITIONAL AUTHORIZATION LIST (AAL)

ADDITIONAL AUTHORIZATION LIST (AAL) INTRODUCTION**Scope**

This work package lists additional items you are authorized for the support of the MHS.

General

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

Explanation Of Columns In The AAL

Column (1) National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (2) 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 (3) Usable On Code. When applicable, gives you a code if the item you need is not the same for different models of equipment. These codes are identified below:

Code — Used on

MHF — M17 Modular Pistol

MHC — M18 Compact Modular Pistol

MHG — GO Pistol

Column (4) U/I. Unit of Issue (U/I) indicates the physical measurement or count of the item as issued for the National Stock Number show in column (1).

Column (5) Qty Recm. Indicates the quantity recommended.

Table 1. Additional Authorization Items List.

(1) NATIONAL STOCK NUMBER (NSN)	(2) DESCRIPTION, PART NUMBER/(CAGEC)	(3) USABLE ON CODE	(4) U/I	(5) QTY RECM
1005-01-664-8060	Grip Assembly, Small: 13067061-1 (19200)	MHF, MHC, MHG	EA	1
1005-01-664-9759	Grip Assembly, Medium: 13067061-1 (19200)	MHF, MHC, MHG	EA	1
1005-01-665-3060	Grip Assembly, Large: 13067061-2 (19200)	MHF, MHC, MHG	EA	1

END OF WORK PACKAGE

OPERATOR MAINTENANCE
EXPENDABLE AND DURABLE ITEMS LIST

EXPENDABLE AND DURABLE ITEMS LIST INTRODUCTION

Scope

This work package lists expendable and durable items that you will need to operate and/or maintain the MHS. This listing is for information only and is not authority to requisition listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (Except Medical, Class V, Repair Parts, and Heraldic Items), CTA 50-909, Field and Garrison Furnishings and Equipment or CTA 8-100, Army Medical Department Expendable/Durable Items.

Explanation Of Columns In The Expendable/Durable Items List

Column (1) Item No. This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item (e.g., Use brake fluid (WP 0098, item 5)).

Column (2) Level. This column identifies the lowest class of maintenance that requires the item (C = 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, Part Number/(CAGEC). 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) U/I. Unit of Issue (U/I) code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

Table 1. Expendable and Durable Items List.

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER (NSN)	(4) ITEM NAME, DESCRIPTION, PART NUMBER AND (CAGEC)	(5) U/I
1	C	1005-00-716-2132	Brush, Cleaning, Small (Bore Brush): 7162132 (19205)	EA
2	C	1005-00-494-6602	Brush, Cleaning, Small Arms: 8448462 (19204)	EA
3	C	9150-01-102-1473	Cleaner, Lubricant, Preservative (CLP): MIL-PRF-63460 (81349)	btl
4	C	9150-00-292-9689	Lubricating Oil, Weapons (LAW): MIL-PRF-14107 (81349)	Can
5	C	9150-00-889-3522	Lubricating Oil, Weapons, Semi-Fluid (LSA): 8436793 (19204)	btl
6	C	1005-01-449-9257	Patch, Small Cal.: 918-10 (01VS3)	EA
7	C	7920-00-205-1711	Rag, Wiping: A-A-531 (58536)	Bag
8	C	1005-00-556-4102	Rod, Cleaning, M4: 5564102 (19204)	EA
9	C	1005-00-288-3565	Swab, Small Arms: 5019316 (19204)	PG

END OF WORK PACKAGE

OPERATOR MAINTENANCE
MANDATORY REPLACEMENT PARTS

MANDATORY REPLACEMENT PARTS INTRODUCTION

No mandatory replacement parts are required for the maintenance of the MHS.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
CRITICAL SAFETY ITEMS (CSI)

There are no critical safety items for the MHS.

END OF WORK PACKAGE

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS

For use of this form, see AR 25-30, the proponent agency is OAASA

DATE

*Date form filled out***INSTRUCTIONS FOR SUBMITTING THE DA FORM 2028**

After completing the [DA Form 2028](#) (Recommended Changes to Publications and Blank Forms), you may send it via Email directly to the proponent publication control officer (PCO) for publications or the Forms Management Officer (FMO) for forms, as appropriate. You may obtain proponent PCO/FMO Email addresses at https://armypubs.us.army.mil/corporate/directory_1.html (CAC access only). As an alternative, you may mail the DA Form 2028 via the U.S. Postal Service to the proponent using the address found on the publication's title page, under the heading, "Suggested improvements."

Part II (page 2) is for changes to Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).

DETERMINING AND SELECTING THE PROPER PROPONENT

You can identify the proper proponent for any publication or form by searching for its title using DA Pam 25-30, which can be accessed at: http://www.apd.army.mil/pamdocs/APD_Search.asp

TO: (Forward to proponent of publication or form) (Include ZIP Code)
 U.S. Army TACOM Life Cycle Management Command
 ATTN: AMSTA-LCL-IMP/TECH PUBS MS 727
 6501 E. 11 Mile Road, Warren, MI 48397-5000
 usarmy.detroit.tacom.mbx.ilsc-tech-pubs@mail.mil

FROM: (Activity and location) (Include ZIP Code)

Your Mailing Address

PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS

PUBLICATION/FORM NUMBER

DATE

TITLE

*TM Number**Date of the TM**Title of the TM*

ITEM	PAGE	PARA-GRAPH	LINE	FIGURE	TABLE	RECOMMENDED CHANGES AND REASON
	0007-3					<i>Figure 2, Item 9 should show a lock washer. Currently shows a flat washer.</i>
	0018-2					<i>Cleaning and inspection, Step 6, reference to governor support pin (14) is wrong reference. Reference should be changed to (12).</i>

SAMPLE

TYPED NAME, GRADE OR TITLE

Your Name

TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION

Your Phone Number

SIGNATURE

Your Signature

TO: <i>(Forward to proponent of publication or form) (Include ZIP Code)</i> U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-IMP/TECH PUBS MS 727 6501 E. 11 Mile Road, Warren, MI 48397-5000 usarmy.detroit.tacom.mbx.ilsc-tech-pubs@mail.mil	FROM: <i>(Activity and location) (Include ZIP Code)</i> <i>Your Address</i>	DATE <i>Date form filled out</i>
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PART II- REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION/FORM NUMBER <i>TM Number</i>	DATE <i>Date of the TM</i>	TITLE <i>Title of the TM</i>
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION
<h1>SAMPLE</h1>								

PART III - REMARKS *(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)*

TYPED NAME, GRADE OR TITLE <i>Your Name</i>	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION <i>Your Phone Number</i>	SIGNATURE <i>Your Signature</i>
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RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
For use of this form, see AR 25-30; the proponent agency is OAASA							
TO (Forward to proponent of publication or form) (Include ZIP Code) U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-IMP/TECH PUBS MS 727 6501 E. 11 Mile Road, Warren, MI 48397-5000						FROM (Activity and location) (Include ZIP Code)	
PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER TM 9-1005-470-10						DATE 15 OCTOBER 17	TITLE Operaor Manual for Modular Handgun System (MHS) M17, M18
ITEM	PAGE	PARA-GRAPH	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON	
TYPED NAME, GRADE OR TITLE						TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE

TO (Forward direct to addressee listed in publication) U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-IMP/TECH PUBS MS 727 6501 E. 11 Mile Road, Warren, MI 48397-5000	FROM (Activity and location) (Include ZIP Code)	DATE
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PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION/FORM NUMBER TM 9-1005-470-10	DATE 15 OCTOBER 2017	TITLE Operaor Manual for Modular Handgun System (MHS) M17, M18
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

PART III – REMARKS (Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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TM 9-1005-470-10

15 October 2017

By Order of the Secretary of the Army:

MARK A. MILLEY
General, United States Army
Chief of Staff

Official:



GERALD B. O'KEEFE
Administrative Assistant to the
Secretary of the Army
1725461

By Order of the Secretary of the Air Force:

HEATHER WILSON
Secretary of United States
Air Force

DAVID L. GOLDFEIN
General, United States Air Force
Chief of Staff

ELLEN M. PAWLIKOWSKI
General United States Air Force,
Commander, Air Force Materiel
Command (AFMC)

By Order of the Secretary of the Navy:

PETE B. GILL
Principal Acquisition Program
Manager, Small Arms and Combat
Support Naval Sea Systems
Command

DISTRIBUTION:

Initially published in electronic media only. When funds become available, this publication will be distributed in accordance with the initial distribution number (IDN) 401301, requirements for TM 9-1005-470-10.

THE METRIC SYSTEM AND EQUIVALENTS

<p>Linear Measure</p> <p>1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches 1 Kilometer = 1000 Meters = 0.621 Miles</p> <p>Weights</p> <p>1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces 1 Kilogram = 1000 Grams = 2.2 Pounds 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons</p> <p>Liquid Measure</p> <p>1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces</p>	<p>Square Measure</p> <p>1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches 1 Sq Meter = 10,000 Sq Centimeters = 10.76 Sq Feet 1 Sq Kilometer = 1,000,000 Sq Meters = 0.0386 Sq Miles</p> <p>Cubic Measure</p> <p>1 Cu Centimeter = 1,000 Cu Millimeters = 0.06 Cu Inches 1 Cu Meter = 1,000,000 Cu Centimeters = 35.31 Cu Feet</p> <p>Temperature</p> <p>$9/5 \text{ } ^\circ\text{C} + 32 = \text{ } ^\circ\text{F}$ $5/9 (\text{ } ^\circ\text{F} - 32) = \text{ } ^\circ\text{C}$ 212° Fahrenheit is equivalent to 100° Celsius 90° Fahrenheit is equivalent to 32.2° Celsius 32° Fahrenheit is equivalent to 0° Celsius</p>
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APPROXIMATE CONVERSION FACTORS

To Change	To	Multiply By
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Sq Inches	Sq Centimeters	6.451
Sq Feet	Sq Meters	0.093
Sq Yards	Sq Meters	0.836
Sq Miles	Sq Kilometers	2.590
Acres	Sq Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
Pints	Liters	0.473
Quarts	Liters	0.946
Gallons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Sq Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

To Change	To	Multiply By
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Sq Centimeters	Sq Inches	0.155
Sq Meters	Sq Feet	10.764
Sq Meters	Sq Yards	1.196
Sq Kilometers	Sq Miles	0.386
Sq Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
Liters	Gallons	0.264
Grams	Ounces	0.035
Kilograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pound-Feet	0.738
Kilopascals	Pounds per Sq Inch	0.145
Kilometers per Liter	Miles per Gallon	2.354
Kilometers per Hour	Miles per Hour	0.621

