ARMY
TM 9-1005-470-23&P

AIR FORCE
TO 11W3-3-4-32

MARINE CORPS
TM 13141A-23/1

NAVY (NAVSEA)
SW370-DA-MMM-010

MAINTAINER MAINTENANCE MANUAL

INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
FOR

MODULAR HANDGUN SYSTEM (MHS)
PISTOL, 9MM, SEMIAUTOMATIC
M17 (NSN 1005-01-661-7317) (EIC 2VN)
PISTOL, 9MM, SEMIAUTOMATIC
M18 (NSN 1005-01-661-7323) (EIC 2VP)
PISTOL, 9MM, SEMIAUTOMATIC
GO (NSN 1005-01-661-7309) (EIC 2VO)

SUPERSEDURE NOTICE – This manual supersedes TM 9-1005-470-23&P, TO 11W3-3-4-32, SW370-DA-MMM-010 dated 15 October 2017.

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HEADQUARTERS, DEPARTMENTS OF THE ARMY, AIR FORCE, AND NAVY, AND HEADQUARTERS, U.S. MARINE CORPS

30 JUNE 2019

PCN 184 131411 00

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.

Navy personnel refer to NTRP 4-02.1, First Aid.

EXPLANATION OF SAFETY WARNING ICONS

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.

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

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

WARNING SUMMARY – (Continued)

WARNING

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

EXPLANATION OF HAZARDOUS MATERIALS ICONS

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

HAZARDOUS MATERIAL WARNING DESCRIPTION

WARNING

Front and rear sights contain tritium. Notify the Radiation Safety Officer (RSO) and wash hands with nonabrasive soap and lukewarm water immediately after handling of weapon if sights are damaged or not illuminating.

LIST OF EFFECTIVE PAGES/WORK PACKAGES

NOTE: This manual supersedes TM 9-1005-470-23&P, TO 11W3-3-4-32, SW370-DA-MMM-010 dated 15 October 2017. Zero in the Change No. column indicates an original page or work package.

Date of issue for revision is:

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TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 18 AND TOTAL NUMBER OF WORK PACKAGES IN THIS MANUAL IS 26 CONSISTING OF THE FOLLOWING:

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AIR FORCE TO 11W3-3-4-32
MARINE CORPS TM 13141A-23/1
NAVY (NAVSEA) SW370-DA-MMM-010

HEADQUARTERS, DEPARTMENTS OF THE ARMY, AIR FORCE, AND NAVY, AND
HEADQUARTERS, U.S. MARINE CORPS
WASHINGTON, D.C., 30 JUNE 2019

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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 Tank-automotive and Armaments Command. The postal mail address is U.S. Army Tank-automotive and Armaments 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.

Navy - Reporting errors, discrepancies, and suggestions for improvement may be submitted by using NAVSEA 4160/1 Technical Manual Discrepancy/Evaluation Report (TMDER). You can complete a TMDER via https://nsdsa.dc3n.navy.mil/tmder/reporting.aspx or https://mercury.tdmis.navy.mil. A copy of the TMDER can be obtained by emailing smallarms@navy.mil.

Air Force - Proposed changes or reporting errors shall be submitted on an AFTO Form 22 through the MAJCOM in accordance with TO 00-5-1. The MAJCOM will forward the completed AFTO Form 22 to the Technical Order Management Agency (TOMA) at: robins.ce.afto22@robins.af.mil.

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A reply will be furnished to you.

CURRENT AS OF 24 JANUARY 2019

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HOW TO USE THIS MANUAL

The safest, easiest, and best way to maintain 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 maintenance 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.

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 0019. 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 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.

Air Force only: Air Force Specialty Code 3POXXB, Special Experience Identifier (SEI) 312 or civilian equivalent, and gunsmith are the only personnel authorized to perform maintenance procedures contained in this manual.

CHAPTER 1

GENERAL INFORMATION, EQUIPMENT DESCRIPTION AND THEORY OF OPERATION

FOR

MODULAR HANDGUN SYSTEM (MHS)

MAINTAINER

GENERAL INFORMATION

SCOPE

Type of Manual: Maintainer Maintenance

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.

Maintenance forms and records used by Marine Corps personnel are prescribed by TM 4700-15/1 and UM 4000-125.

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/.

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.

Marine Corps: SF Form 368, Product Quality Deficiency Report can be found at http://www.logcom.marines.mil/centers/Generalstaff/Lsmc/pqdr.aspx and should be submitted as an email attachment to smblogcompqdrstracking@usmc.mil (GAL display name SMB LOGCOM PQDRs Tracking).

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.

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 is 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.

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 0012.

For shipping requirements, refer to WP 0013.

For information on transportability, refer to WP 0014.

WARRANTY INFORMATION

The MHS is warranted for 365 days from date of issue. The warranty starts on the date found in block 23 of DA Form 2408-9, Equipment Control Record. Contact your local Logistics Assistance Representative (LAR) for receiver replacement. Report all defects to your supervisor, who will take appropriate action.

LIST OF ABBREVIATIONS/ACRONYMS

AFMAN	Air Force Manual
ARSS	Armament Repair Shop Set
CFR	Code of Federal Regulations
CLP	Cleaner, Lubricant, and Preservative
cm	Centimeter
CODR	Conventional Ordnance Deficiency Reports
CPC	Corrosion Prevention and Control
CTA	Common Table of Allowances
DoD	Department of Defense
DOT	Department of Transportation
EIR	Equipment Improvement Recommendations
GO	General Officer
IAW	In Accordance With
in	Inch
in-lb	Inch pounds
IUID	Item Unique Identification
kg	Kilogram
LAR	Logistics Assistance Representative
LAW	Lubricant Oil, Weapon, Low Temperature
LCI	Loaded Chamber Indicator
MAC	Maintenance Allocation Chart
MDR	Material Deficiency Report
MHS	Modular Handgun System
mm	Millimeter
MTOE	Modification Table of Organization and Equipment
Nm	Newton meter
NMC	Not Mission Capable
NSN	National Stock Number
oz	Ounces
PMCS	Preventive Maintenance Checks and Services
P/N	Part Number
PQDR	Product Quality Deficiency Reporting
RMMF	Radioactive Material Movement Form
RPSTL	Repair Parts and Special Tool List
RSO	Radiation Safety Officer
SEI	Special Experience Identifier
SF	Standard Form
SPI	Special Packaging Instructions
TACOM	Tank-automotive and Armaments Command

TAMMS	The Army Maintenance Management System
TC	Training Circular
TDSL	Takedown Safety Lever
TM	Technical Manual
TMDER	Technical Manual Deficiency/Evaluation Report
TO	Technical Order
UOC	Usable on Code
WP	Work Package

QUALITY OF MATERIAL

Material used for replacement, repair, or modification must meet the requirements of this TM 9-1005-470-23&P. If quality of material requirements is not stated in this TM 9-1005-470-23&P, the material must meet the requirements of the drawings, standards, specifications, or approved engineering change proposals applicable to the subject equipment.

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.

The radioactive material used in the MHS (M17 and M18) sights is tritium gas (H3) sealed in Pyrex tubes. Radioactive self-luminous sources are identified by means of the symbol H3. Tritium sight vials on the MHS contain 15.0 millicuries in the front sight and 18.1 millicuries in each rear sight for a total of 51.2 millicuries per pistol. If any of the sights are not illuminated or are damaged, the pistol, the area where the pistol resides, and the sights may be contaminated with tritium. Do not attempt to remove, replace, or fix the sights. Notify the Radiation Safety Officer (RSO) or local Safety Office.

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.

SUPPORTING INFORMATION FOR REPAIR PARTS, SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE), Common Table of Allowances (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; as applicable to your unit.

The Maintenance Allocation Chart (MAC) is located in WP 0022.

Repair parts are listed and illustrated in the parts information (Chapter 5) of this manual.

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END OF WORK PACKAGE

MAINTAINER

EQUIPMENT DESCRIPTION AND DATA

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

The 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 TM 9-1005-470-10 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 (refer to WP 0011). 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

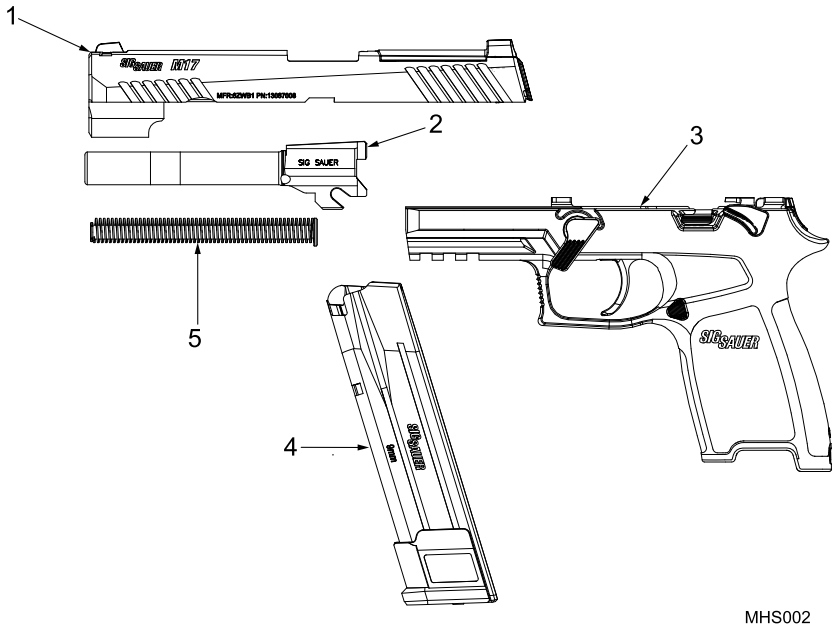


Figure 1. MHS Major Components.

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 (204.47 mm)
Weight (without magazine)	26.90 oz (0.76 kg)
Height (standard magazine installed)	5.55 in (140.97 mm)
Height (extended magazine installed)	6.38 in (162.05 mm)
Width	1.55 in (39.37 mm)
Barrel Length	4.70 in (119.38 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)	24.54 oz (0.70 kg)
Height (standard magazine installed)	5.55 in (140.97 mm)
Height (extended magazine installed)	6.38 in (162.00 mm)
Width	1.55 in (39.37 mm)
Barrel Length	3.90 in (99.06 mm)
Rifling	1:10 in (254.00 mm)

Table 3. Magazine Data.

Weight, Standard, Unloaded, 9mm, 17 round	3.01 oz (0.09 kg)
Weight, Extended, Unloaded 9mm, 21 round	3.74 oz (0.11 kg)

Hazardous Waste Disposal Information

When servicing the MHS, performing maintenance, or disposing of materials such as cleaning fluids, cleaning compounds, and lubricants (or items such as cleaning rags contaminated with these substances) consult your unit/local hazardous waste disposal center or safety office for local regulatory guidance. If further information is needed, please contact The Army Environmental Hotline at (855) 846-3940 or (210) 466-1590, or online at http://aec.army.mil/. Accidental or intentional introduction of contaminants into the environment violates military, state, and federal regulations.

END OF WORK PACKAGE

MAINTAINER

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.

MECHANICAL SAFETIES

In this chapter, the term “energize” or “energized” is defined as the striker pin being held under compressed spring pressure by the sear, which prepares it to strike the cartridge when the trigger is pressed. The term “de-energized” describes the striker when the striker spring is in the non-compressed state. The MHS has mechanical safety features that are standard on both models. These features are:

Striker Safety - The striker is mechanically blocked from hitting the primer unless the trigger is pressed to the rear.

Takedown Lever - Prevents field stripping when the slide is not retracted to a position where the striker is de-energized.

Takedown Safety Lever (TDSL) - Prevents disassembly with the magazine inserted and disconnects the sear such that trigger pull is not required for slide removal.

Ambidextrous Manual Safety - Mechanically blocks the trigger bar from engaging the sear.

Mechanical Disconnect - Prevents the pistol from firing if the slide is out of battery.

Secondary Striker Notch - Captures the striker should the pistol suffer an impact and the striker lock is inadvertently released from the primary striker notch.

Disconnector - Disconnects the trigger bar from the sear when the slide is out of battery. The trigger can be pressed but the striker pin will not be released.

The TDSL (Figure 1, Item 2) prevents the rotation of the takedown lever (Figure 1, Item 1) with the magazine inserted. The lever contacts the front of the magazine body. This prevents the TDSL from moving rearward.

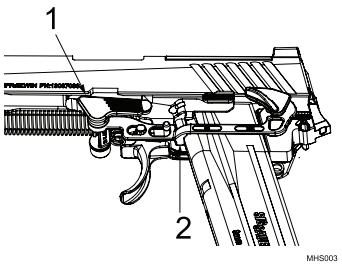


Figure 1. Takedown Safety Lever (TDSL).

When the magazine (Figure 2, Item 2) is removed, the TDSL (Figure 2, Item 3) can move to the rear. When the slide is locked to the rear, rotating the takedown lever (Figure 2, Item 1) clockwise will force the TDSL to move rearward.

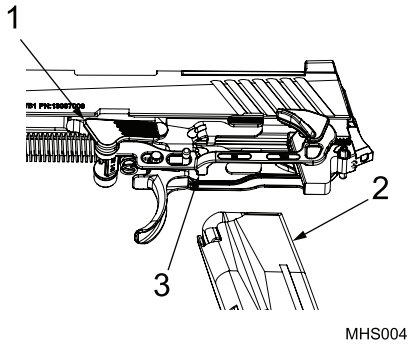


Figure 2. TDSL Disengaged.

The TDSL (Figure 3, Item 2) moves rearward as a result of the takedown lever (Figure 3, Item 1) being rotated.

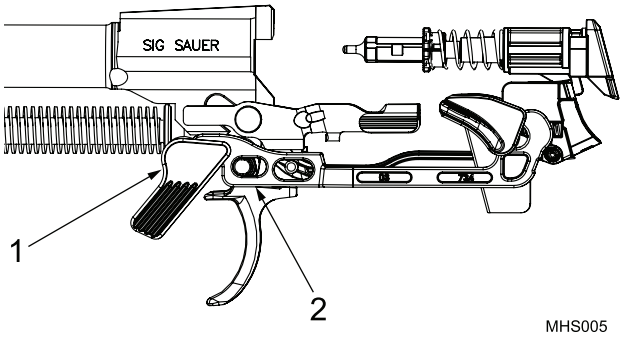


Figure 3. Takedown Lever Rotated.

The rear arm of the TDSL (Figure 4, Item 1) pushes on the ramped portion of the sear, causing the sear (Figure 4, Item 2) to rotate downward disabling trigger and preventing magazine insertion.

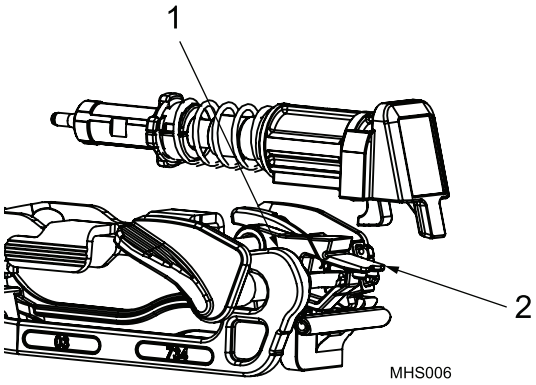


Figure 4. Sear Rotated Downward.

The striker safety lock (Figure 5, Item 1) mechanically blocks the striker pin (Figure 5, Item 2) from forward movement. When the trigger is pressed to the rear, the trigger bar (Figure 5, Item 4) is pulled forward. As the trigger bar moves forward, the safety lever (Figure 5, Item 3) rotates upward. The safety lever raises the striker safety lock (Figure 5, Item 1). When the striker safety lock moves upward, it no longer mechanically blocks the striker pin from forward movement.

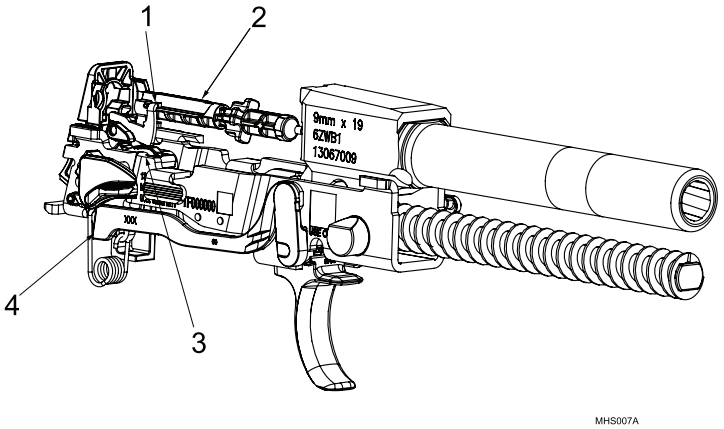


Figure 5. Striker Safety Lock Engaged.

TRIGGER SYSTEM

The MHS is fired by pressing the trigger rearward. This causes the trigger bar to rotate the sear, which releases the energized striker pin detonating the primer of the cartridge.

LOCKING AND UNLOCKING

When the MHS is fired, the barrel and the slide are locked into battery. The blowback reaction pushes the slide and barrel rearward. The barrel lug cams down against the slide catch lever pivot pin, causing the barrel to unlock from the slide. The slide continues its rearward travel extracting and ejecting the spent case while compressing the recoil spring. The compressed recoil spring then pushes the slide forward, stripping a live cartridge from the magazine and directing it into the chamber. The barrel lug cams against the slide catch lever pivot pin locking the barrel and slide back into battery.

ARRESTING MECHANISM (SLIDE CATCH LEVER)

After firing the last round, the follower of the empty magazine (Figure 6, Item 2) raises the slide catch lever (Figure 6, Item 1) engaging the arresting notch of the slide, locking it to the rear in the open position. Pressing down on the slide catch lever releases the slide to the closed and locked position.

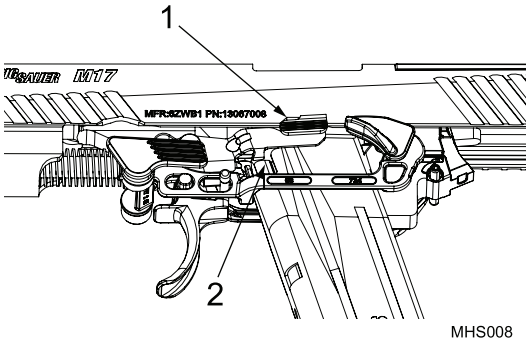


Figure 6. Slide Catch Lever Engaged.

AMBIDEXTROUS MANUAL SAFETY LEVERS

The right side manual safety lever (Figure 7, Item 1) has a tab (Figure 7, Item 2) that drops into a notch at the rear of the trigger bar (Figure 7, Item 3) when the manual safety is engaged. This mechanically blocks movement of the trigger bar when the operator attempts to press the trigger.

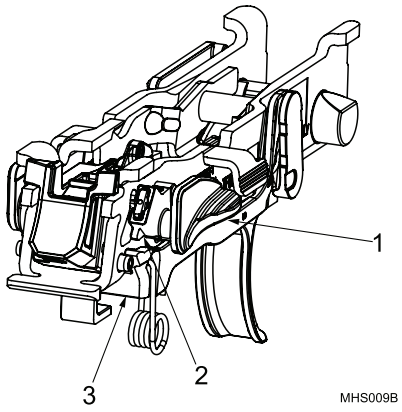


Figure 7. Manual Safety Lever Engaged.

DISCONNECTOR

The disconnector (Figure 8, Item 2) moves freely within a machined channel on the right side of the sear housing. The lower portion of the disconnector rests on the trigger bar. When the slide (Figure 8, Item 1) is in the locked position, the disconnector rests in a radius machined into the slide.

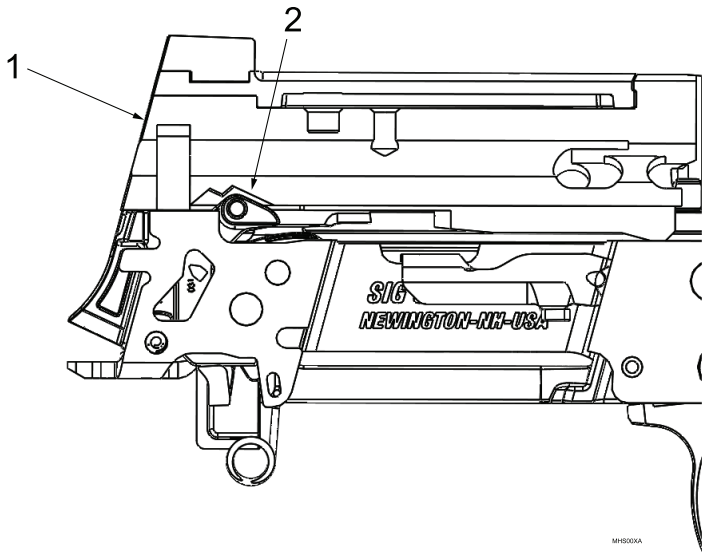


Figure 8. Disconnector.

If the slide (Figure 9, Item 1) is moved to the rear out of battery, the disconnector (Figure 9, Item 2) is pushed downward, moving the trigger bar out of engagement with the sear.

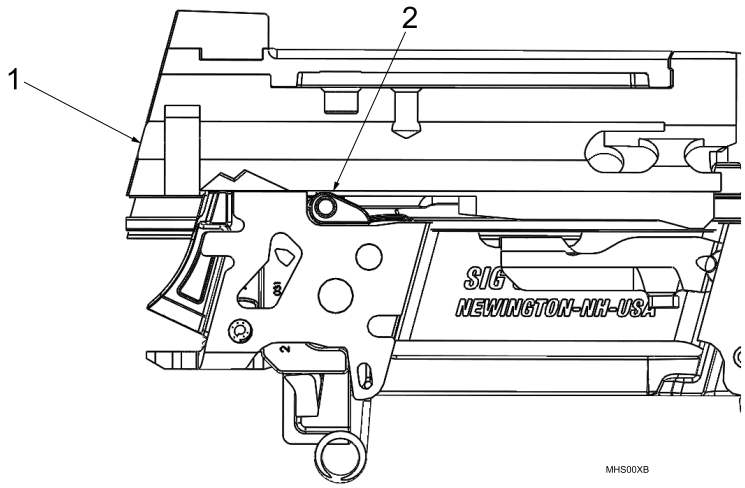


Figure 9. Disconnector.

END OF WORK PACKAGE

CHAPTER 2

TROUBLESHOOTING PROCEDURES

FOR

MODULAR HANDGUN SYSTEM (MHS)

MAINTAINER TROUBLESHOOTING PROCEDURE

TROUBLESHOOTING INTRODUCTION

Troubleshooting procedures are limited to those listed in the troubleshooting index. The index lists the common symptoms/malfunctions which you may find during the maintenance of the MHS. You should perform the tests/inspections and corrective actions in the order listed in the Troubleshooting Procedures WP. This manual 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 your supervisor.

END OF WORK PACKAGE

MAINTAINER TROUBLESHOOTING PROCEDURE

TROUBLESHOOTING INDEX

END OF WORK PACKAGE

MAINTAINER TROUBLESHOOTING PROCEDURE

TROUBLESHOOTING PROCEDURES

INITIAL SETUP:

Tools and Special Tools
Tool Kit, Small Arms (WP 0024, Item 1)

Personnel Required
Small Arms/Artillery Repairer 91F

References
WP 0009
WP 0010
WP 0011

Equipment Condition
Unloaded/clear (TM 9-1005-470-10)

TROUBLESHOOTING PROCEDURE

SYMPTOM

Cartridge does not feed.

MALFUNCTION

Magazine catch fails to retain magazine in grip module.

CORRECTIVE ACTION

STEP 1. Check for broken magazine catch spring. Replace magazine catch spring if broken (WP 0011).

STEP 2. Check for magazine body damage where magazine catch engages. Replace magazine if damaged (TM 9-1005-470-10).

MALFUNCTION

Weak magazine spring (pistol functions with new magazine).

CORRECTIVE ACTION

Replace magazine (TM 9-1005-470-10).

MALFUNCTION

Weak recoil springs, force to close noticeably weak.

CORRECTIVE ACTION

Replace recoil spring guide assembly (WP 0009).

MALFUNCTION

Worn, damaged, or broken recoil spring guide assembly.

CORRECTIVE ACTION

Replace recoil spring guide assembly (WP 0009).

SYMPTOM

Cartridge does not chamber.

MALFUNCTION

Magazine catch fails to retain magazine in grip module

CORRECTIVE ACTION

Replace magazine catch assembly (WP 0011).

MALFUNCTION

Breech face or extractor dirty.

CORRECTIVE ACTION

STEP 1. Clean breech face.

STEP 2. Check that extractor moves freely.

MALFUNCTION

Weak or broken recoil spring guide assembly.

CORRECTIVE ACTION

Replace recoil spring guide assembly (WP 0009).

SYMPTOM

Slide does not lock fully forward.

MALFUNCTION

Recoil spring guide assembly weak or broken.

CORRECTIVE ACTION

STEP 1. Perform safety/function check (TM 9-1005-470-10).

STEP 2. Replace recoil spring guide assembly (WP 0009).

MALFUNCTION

Damaged or burred slide.

CORRECTIVE ACTION

Remove burrs or replace slide (WP 0010).

SYMPTOM

Pistol does not fire.

MALFUNCTION

Slide not fully in battery.

CORRECTIVE ACTION

STEP 1. Perform safety/function check (TM 9-1005-470-10).

STEP 2. Refer to Symptom “Slide does not lock fully forward.”

MALFUNCTION

Damaged or broken striker assembly.

CORRECTIVE ACTION

Replace striker assembly (WP 0010).

MALFUNCTION

Broken trigger, trigger bar, or trigger bar spring.

CORRECTIVE ACTION

Replace broken component(s) (WP 0011).

SYMPTOM

Cartridge does not extract.

MALFUNCTION

Dirty or damaged extractor components.

CORRECTIVE ACTION

Clean or replace extractor components (WP 0010).

MALFUNCTION

Rough chamber.

CORRECTIVE ACTION

STEP 1. Inspect chamber.

STEP 2. Replace barrel (WP 0009).

SYMPTOM

Cartridge does not eject.

MALFUNCTION

Broken receiver.

CORRECTIVE ACTION

Evacuate pistol for replacement.

MALFUNCTION

Slide motion restricted.

CORRECTIVE ACTION

STEP 1. Inspect slide for damage.

STEP 2. Repair slide (WP 0010).

SYMPTOM

Dead trigger/unable to insert magazine.

MALFUNCTION

Incorrectly installed slide assembly.

CORRECTIVE ACTION

NOTE

This malfunction occurs when the slide assembly is installed on the receiver/grip module and the takedown lever is rotated without locking the slide to rear with slide catch lever.

STEP 1. Lock slide to rear by pushing up on slide catch lever.

STEP 2. Press down slide catch lever to release slide forward.

STEP 3. Attempt to insert empty magazine.

STEP 4. If malfunction is not corrected by steps 1 through 3, inspect for damaged or broken takedown safety lever. Replace takedown safety lever if damaged or broken (WP 0011).

END OF WORK PACKAGE

CHAPTER 3

MAINTENANCE INSTRUCTIONS

FOR

MODULAR HANDGUN SYSTEM (MHS)

MAINTAINER MAINTENANCE

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) INTRODUCTION

GENERAL

Preventive Maintenance Checks and Services (PMCS) must be performed by a Maintainer to be sure the MHS is in good operating condition and ready for its primary mission.

To ensure maximum operational readiness, it is necessary that the MHS be inspected at regular intervals so any defects can be discovered and corrected before serious damage or failure occurs.

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 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

MAINTAINER MAINTENANCE

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

INITIAL SETUP:

Personnel Required
Small Arms/Artillery Repairer 91F

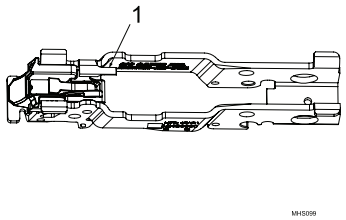
References
DA Form 2404/5988-E
WP 0009

Equipment Condition
Unloaded/clear (TM 9-1005-470-10)

Table 1. Preventive Maintenance Checks and Services.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	NOT MISSION CAPABLE (NMC) IF:
			WARNING  Before starting an inspection and/or performing any maintenance procedures, ensure weapon is clear. Do not squeeze trigger until pistol has been cleared. Do not keep live ammunition near work/maintenance area. Failure to comply may result in death or injury to personnel. **NOTE** Inspect all assemblies for missing, broken, or loose parts. Inspect parts for cracks, dents, burrs, excessive wear, rust, or corrosion. Ensure all items are cleaned and lubricated. Inspect external surfaces for adequate finish. Repair or replace defective parts as authorized.	
1	Annually	MHS	Field strip pistol (WP 0009).	
2	Annually	Slide Assembly	1. Visually inspect slide and slide rails for burrs or cracks.	Slide or slide rails are cracked or have burrs.
			2. Visually inspect loaded chamber indicator (LCI). LCI should be held in downward position under spring pressure.	LCI is not under spring pressure.
			WARNING  Front and rear sights contain tritium. Notify the Radiation Safety Officer (RSO) and wash hands with nonabrasive soap and lukewarm water immediately after handling of weapon if sights are damaged or not illuminating.	
			3. Visually inspect sights. Ensure front and rear sights are both secure in slide.	Sights are missing or loose

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	NOT MISSION CAPABLE (NMC) IF:
			NOTE Front sights illuminate green. Rear sights illuminate orange. Navy only: Navy weapons with sights that do not illuminate should not be considered NMC.	
			4. Inspect sights for tritium illumination or damage.	Sights are damaged, not illuminated, or tritium vials are missing.
			5. Inspect rear sight and rear sight plate for cracks or damage. Ensure sight and sight plate are not loose.	Rear sight or rear sight plate is cracked, damaged, or loose.
			6. Visually inspect barrel and barrel lug for cracks and obstructions. Chamber area of barrel should be free of cracks, obstructions, and pitting.	Barrel or barrel lug have cracks or obstructions. Chamber has cracks, obstructions, or excessive pitting.
			7. Visually inspect recoil spring guide assembly for bends, breakage, or damage.	Recoil spring guide assembly is bent, broken, or damaged.
3	Annually	Receiver/Grip Module	1. Visually inspect four receiver rails for burrs, bends, or cracks.	Receiver rails are bent, burred, or cracked.
			2. Check operation of the slide catch lever.	Slide catch lever is not held in the downward position by spring pressure.
			3. Inspect magazine catch for proper operation.	Magazine is not securely held into grip module or does not drop free when catch is depressed.
			4. Inspect ejector (Figure 1, Item 1).	Ejector is broken or missing.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	NOT MISSION CAPABLE (NMC) IF:
			 **Figure 1. Ejector.**	
			5. Remove takedown lever. Inspect takedown lever and O-ring.	Takedown lever or O-ring is missing or damaged.
4	Annually	Pistol	1. Assemble pistol (WP 0009). Ensure parts are installed correctly and are in good working condition.	Parts incorrectly installed. Parts not in serviceable condition.
			2. Perform safety/function test (TM 9-1005-470-10).	Weapon does not pass safety/function test.
			3. Check all moving parts for binding or hesitation.	Moving parts bind or hesitate.
			NOTE If exterior pistol components are missing one third or more of exterior protective finish, resulting in an unprotected/light reflecting surface, those components should be replaced. This missing finish will be considered a shortcoming and the pistol is considered serviceable until parts have been replaced.	
			4. Inspect for proper finish.	

MANDATORY REPLACEMENT PARTS

There are no mandatory replacement parts for these procedures.

END OF WORK PACKAGE

CHAPTER 4

MAINTENANCE INSTRUCTIONS

FOR

MODULAR HANDGUN SYSTEM (MHS)

MAINTAINER MAINTENANCE

FIELD STRIPPING

INITIAL SETUP:

Personnel Required
Small Arms/Artillery Repairer 91F

References
TM 9-1005-470-10

DISASSEMBLY

1. Unload/clear weapon (TM 9-1005-470-10).
2. Pull slide (Figure 1, Item 1) to rear while pushing up on slide catch lever (Figure 1, Item 2). Slide will lock in place.

NOTE

Ensure recoil spring guide assembly is parallel to barrel.

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

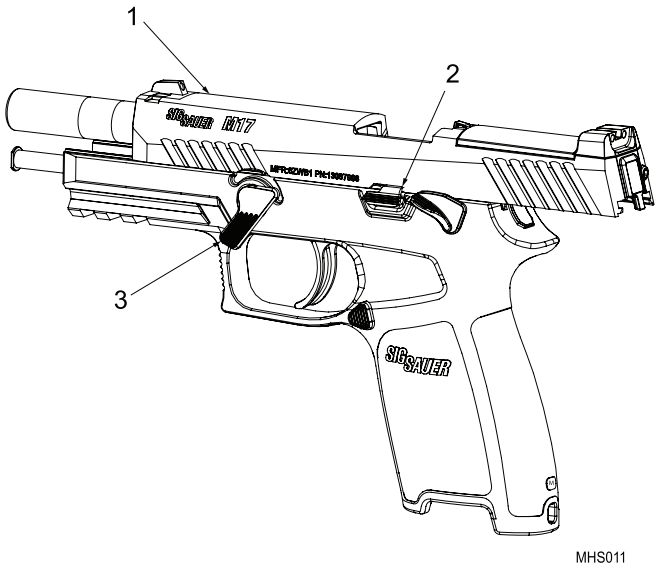


Figure 1. Field Stripping.

4. Pull slide (Figure 2, Item 1) to rear of receiver to release slide catch lever (Figure 2, Item 3). 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).

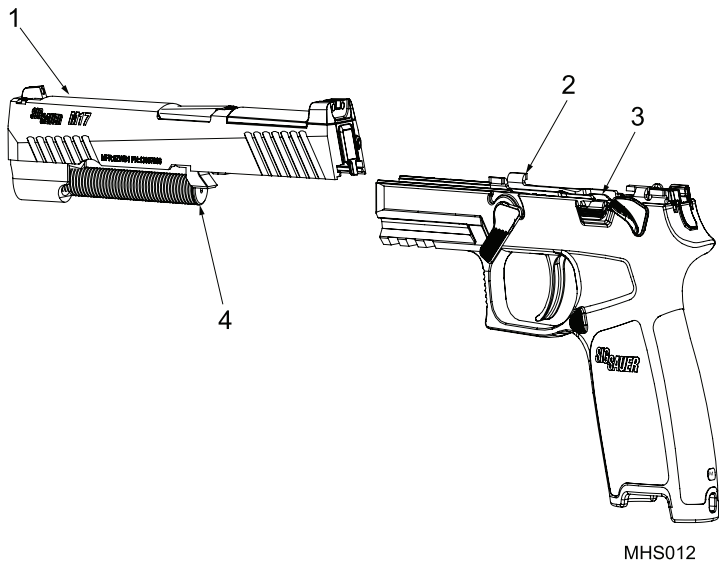


Figure 2. Slide Removal.

WARNING

Use care when removing recoil spring guide assembly. Assembly will be released under spring tension and may injure personnel or become damaged or lost.

5. Slightly compress recoil spring guide assembly (Figure 3, Item 1) and remove from slide.

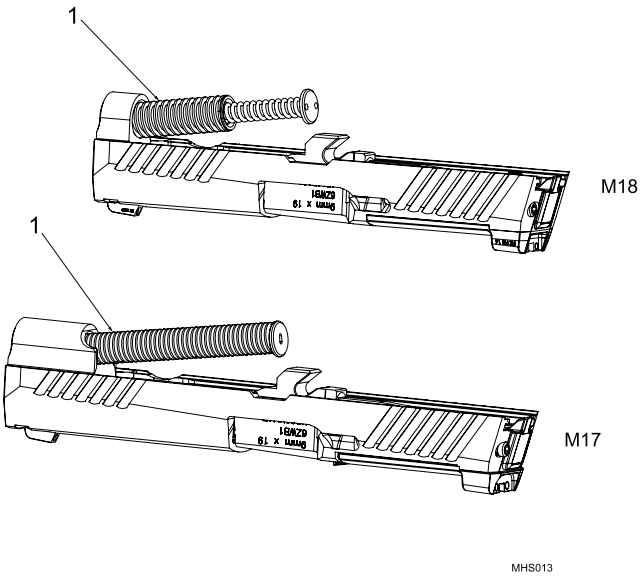


Figure 3. Recoil Spring Guide Assembly Removal.

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

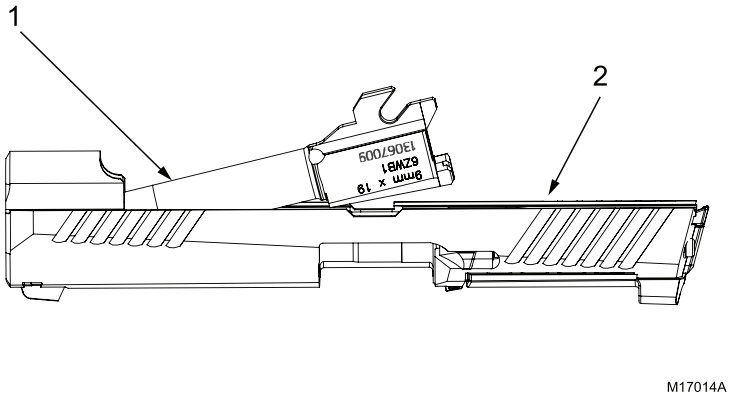


Figure 4. Barrel Removal.

END OF TASK

CLEANING

For cleaning instructions, refer to TM 9-1005-470-10.

END OF TASK

INSPECTION

1. Visually inspect all parts for damage.
2. Inspect external surfaces for proper finish. If exterior pistol components are missing one third or more of exterior protective finish, resulting in an unprotected/light reflecting surface, those components should be replaced. This missing finish will be considered a shortcoming and the pistol is considered serviceable until parts have been replaced.

END OF TASK

ASSEMBLY

1. Install barrel (Figure 5, Item 2) into slide (Figure 5, Item 1).

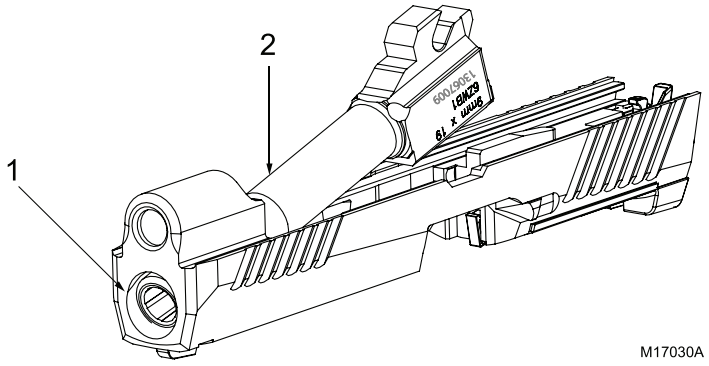


Figure 5. Barrel Installation.

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 recoil spring guide assembly (Figure 6, Item 2) into the slide (Figure 6, Item 1). Slightly compress recoil spring and lower spring guide until fully seated on barrel lug (Figure 6, Item 3).

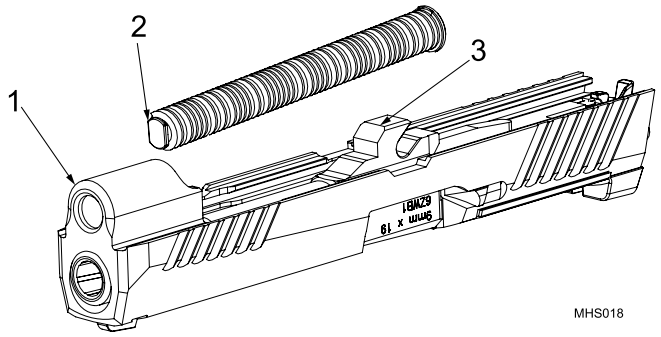


Figure 6. M17 Recoil Spring Guide Assembly.

NOTE

Step 3 is for M18.

3. Install large end of the recoil spring guide assembly (Figure 7, Item 2) into slide (Figure 7, Item 1). Slightly compress recoil spring and lower spring guide until fully seated on barrel lug (Figure 7, Item 3).

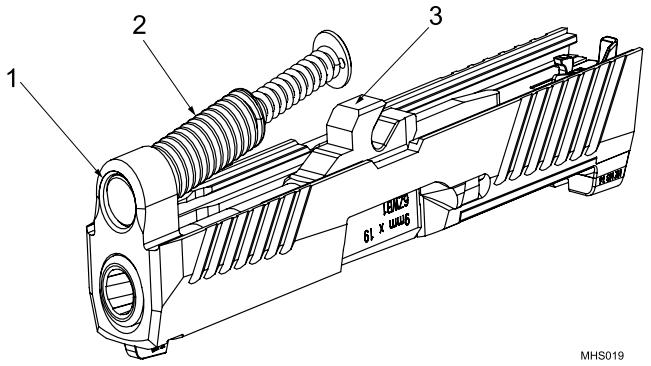


Figure 7. M18 Recoil Spring Guide Assembly.

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 8, Item 3) is rotated fully clockwise.
5. Align front receiver rails (Figure 8, Item 2) with rail slots at rear of the slide (Figure 8, Item 1).

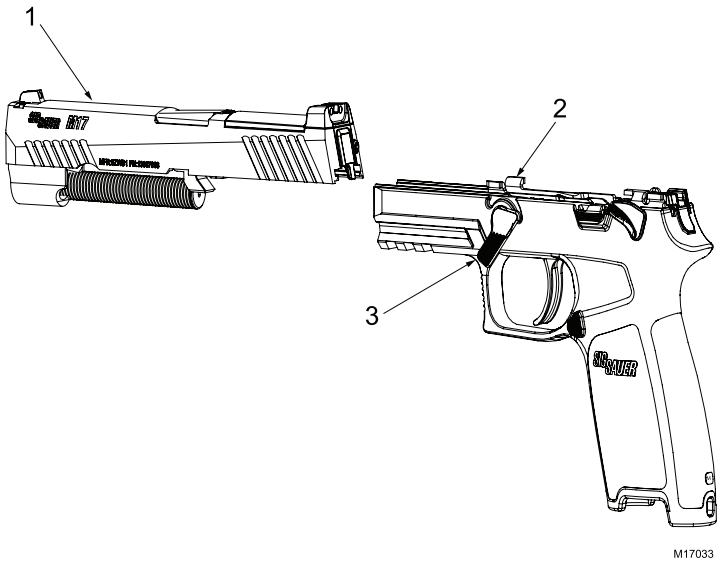


Figure 8. Slide Installation.

6. Pull slide (Figure 9, Item 1) rearward until it stops. Push up on the slide catch lever (Figure 9, Item 2) to lock the slide to the rear.

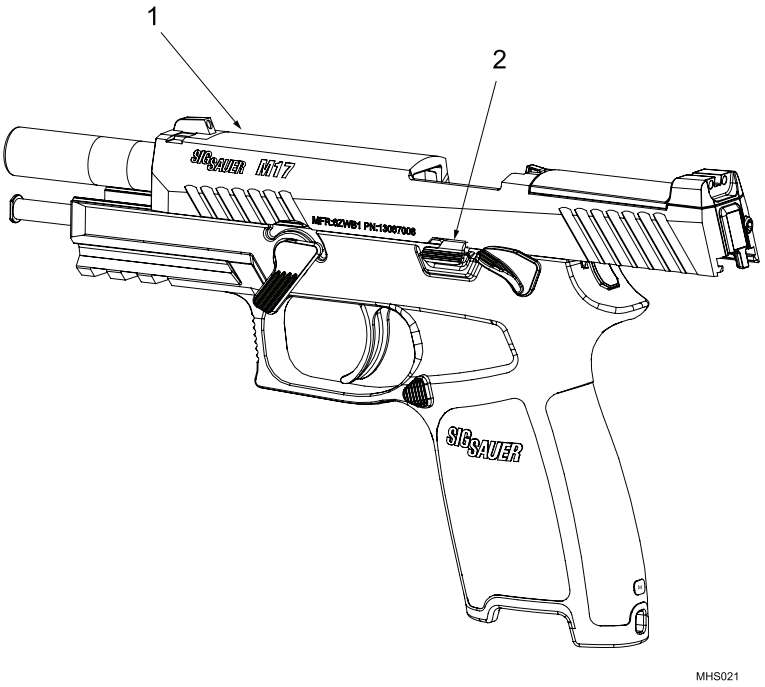


Figure 9. Slide Locked to Rear.

7. Rotate takedown lever (Figure 10, Item 1) counterclockwise until it stops.

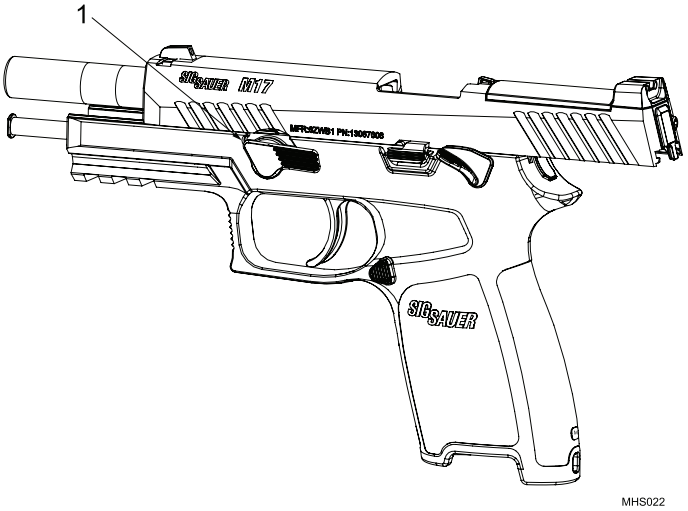


Figure 10. Takedown Lever Position.

8. Press the slide catch lever (Figure 11, Item 2) to release the slide (Figure 11, Item 1) fully forward.

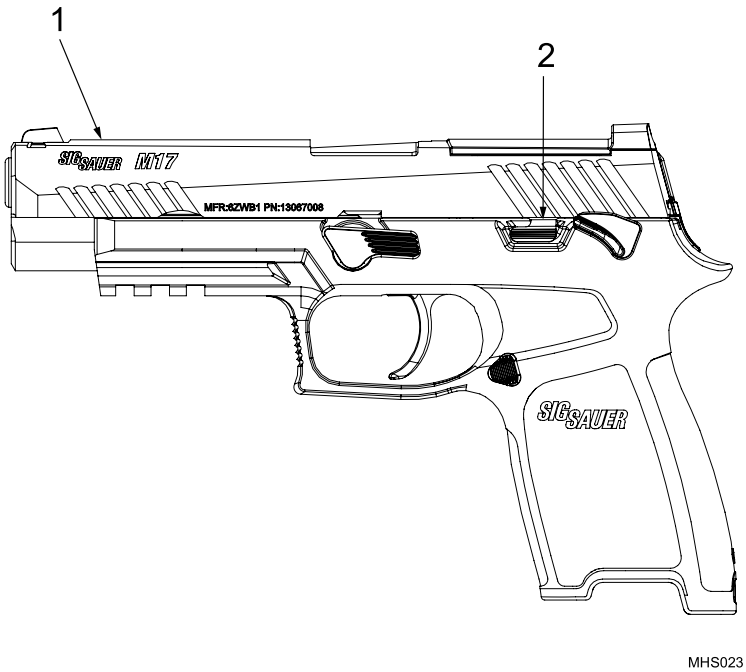


Figure 11. Release Slide.

END OF TASK

END OF WORK PACKAGE

MAINTAINER MAINTENANCE

SLIDE ASSEMBLY REPAIR

INITIAL SETUP:

Tools and Special Tools
Pusher, Sight Tool (WP 0024, Item 4)
Wrench, Torque, 1/4" Drive, 0-150 in-lb (WP 0024, Item 2)
Tool Kit, Small Arms (WP 0024, Item 1)

Materials
CLP (WP 0023, Item 3)
Screw, Rear Sight (WP 0025, Item 2)
Wiping rag (WP 0023, Item 7)

Personnel Required
Small Arms/Artillery Repairer 91F

Equipment Condition
Weapon field stripped (WP 0009)

CAUTION

Replacement parts for original configuration weapons (serial number range: TC000007-TC000136 and TF000006-TF005908) must be requested by contacting usarmy.pica.peo-soldier.list.pmsw-mhs-spares@mail.mil. Use of upgraded configuration parts on original configuration weapons may cause damage to equipment.

DISASSEMBLY

1. Push in tamper resistant extractor tension pin (Figure 1, Item 2) and turn pin 180 degrees in either direction until head of the pin pops out from the rear of the slide (Figure 1, Item 1).
2. Grasp rear cap (Figure 1, Item 3) pulling it down out of slide while slightly depressing extractor tension pin (Figure 1, Item 2).

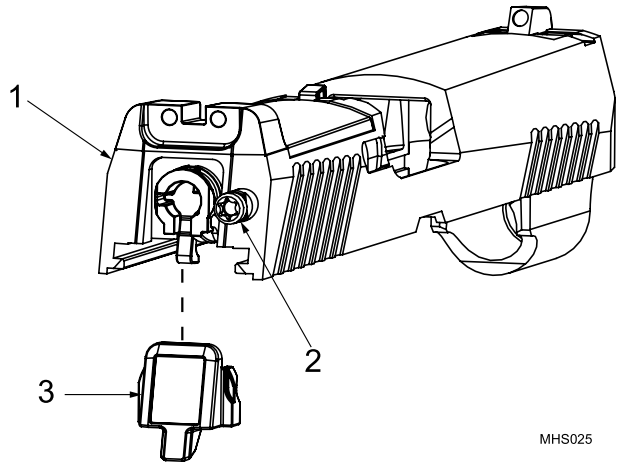


Figure 1. Rear Slide Cap Removal.

3. Remove tamper resistant extractor tension pin (Figure 2, Item 4), extractor spring (Figure 2, Item 3), and extractor pin (Figure 2, Item 2) from slide (Figure 2, Item 1).

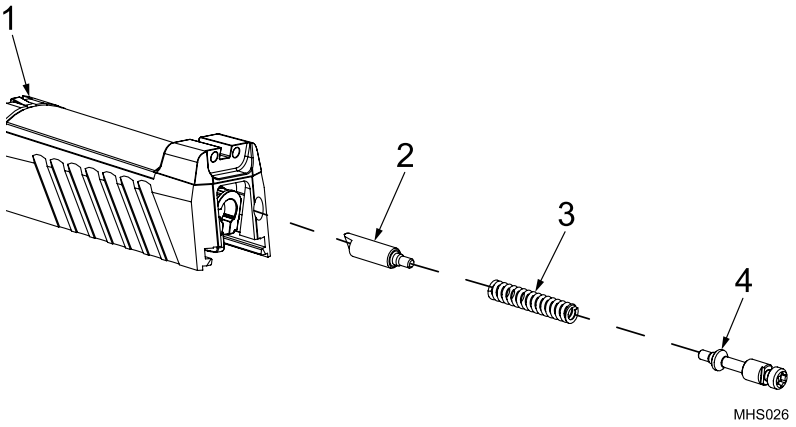


Figure 2. Extractor Pin Removal.

4. Remove extractor (Figure 3, Item 2) from right side of slide (Figure 3, Item 1).

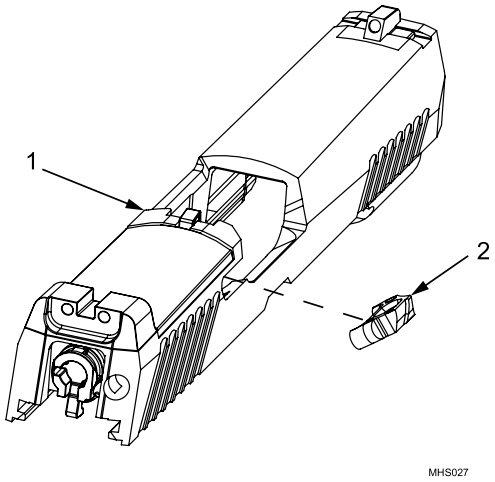


Figure 3. Extractor Removal.

CAUTION

Use care when removing striker assembly as small parts can become dislodged, damaged, or lost.

5. Remove striker assembly (Figure 4, Item 1) from slide (Figure 4, Item 2).

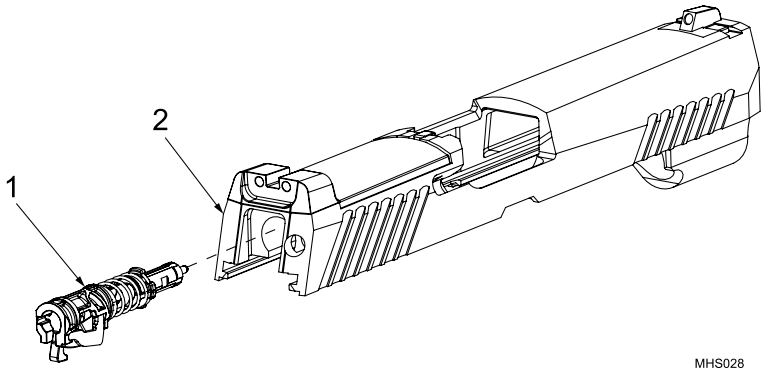


Figure 4. Striker Assembly Removal.

NOTE

Set slide on a flat surface with the bottom of slide facing up to ease removal of screw.

6. Remove rear sight plate screw (Figure 5, Item 1) from slide (Figure 5, Item 2). Discard rear sight plate screw.

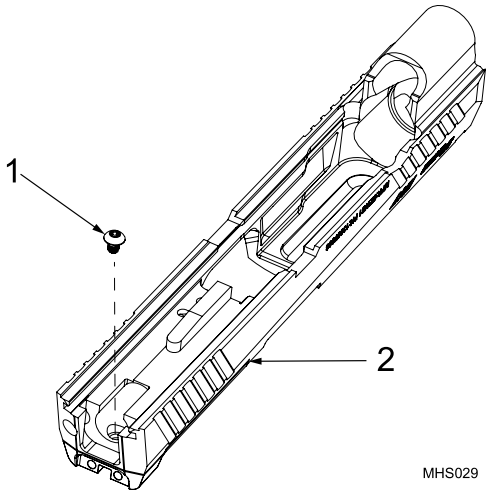


Figure 5. Sight Plate Screw Removal.

WARNING

Front and rear sights contain tritium. Notify the Radiation Safety Officer (RSO) and wash hands with nonabrasive soap and lukewarm water immediately after handling of weapon if sights are damaged or not illuminating.

NOTE

There are two configurations of the rear sight. As a result, the rear sight may come off in one piece or two pieces.

7. Remove rear sight assembly (Figure 6, Item 1), loaded chamber indicator (LCI) (Figure 6, Item 2), and loaded chamber indicator spring (Figure 6, Item 3) from slide (Figure 6, Item 4). Place unserviceable or damaged sights in a small zip lock bag and label it ”Tritium sight DO NOT OPEN.” Contact your local Radiation Safety Officer (RSO) for proper disposal instructions.

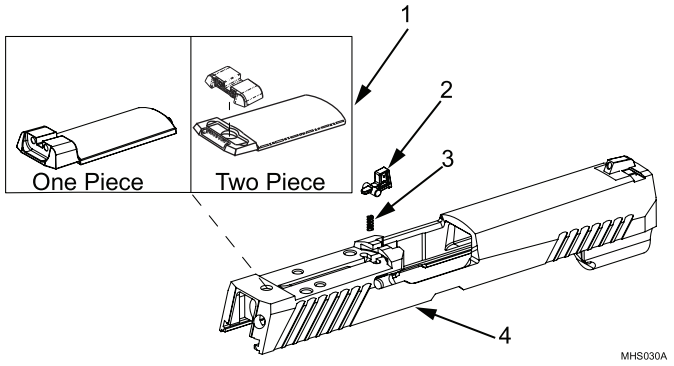


Figure 6. Loaded Chamber Indicator Removal.

NOTE

Do not remove front sight unless replacement is required. Proceed with steps 8 through 11 for sight removal.

Sight pusher tool should only be used when replacing front sight and not for adjusting sights.

8. Center the pusher (Figure 7, Item 2) in the sight pusher tool body (Figure 7, Item 5) by rotating the adjustment handle (Figure 7, Item 1).
9. Push back of slide (Figure 7, Item 4) into sight pusher body, sliding it on the rails of the clamp until slide is flush with front of tool. Tighten rail clamp (Figure 7, Item 6).

NOTE

Front sight can be removed from either side of slide.

10. Remove front sight (Figure 7, Item 3) from slide by turning adjustment handle (Figure 7, Item 1) and pushing sight (Figure 7, Item 3) from slide. Place unserviceable or damaged sights in a small zip lock bag and label it ”Tritium sight DO NOT OPEN.” Contact your local Radiation Safety Officer (RSO) for proper disposal instructions.

11. Center sight pusher (Figure 7, Item 2) and loosen rail clamp (Figure 7, Item 6) to remove slide from sight pusher tool.

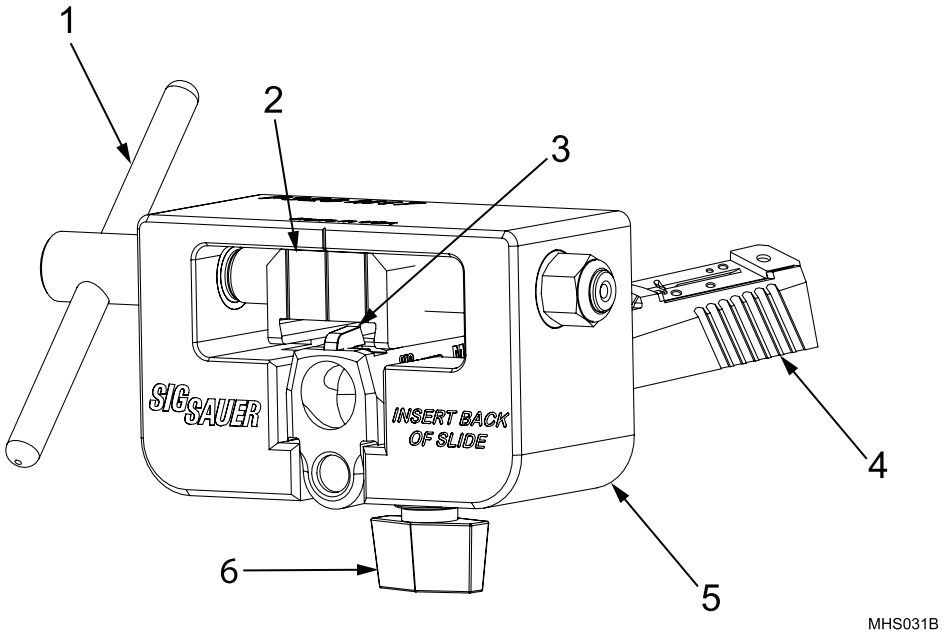


Figure 7. Front Sight Removal.

END OF TASK

CLEANING

CAUTION

The use of compressed air on the striker assembly may dislodge small parts.

1. Remove dirt, corrosion, or powder residue from parts with wiping rag dampened with CLP.
2. Thoroughly clean and dry the channel in the slide that houses the striker assembly.
3. Thoroughly clean the channel which houses the extractor components.
4. If the pistol has been used in salt water environments and/or submerged, flush the entire pistol with clean fresh water. Clean and lubricate.

END OF TASK

LUBRICATION

CAUTION

Do not lubricate the striker assembly. Failure to comply may result in damage to equipment.

Lightly lubricate extractor spring, extractor pin, and LCI spring with CLP.

END OF TASK

ASSEMBLY

NOTE

Perform steps 1 through 6 if front sight was removed.

1. Insert slide in sight pusher tool with sight dovetail (Figure 8, Item 4) forward of tool.
2. Turn adjustment handle (Figure 8, Item 1) to move pusher (Figure 8, Item 2) to left side of tool.

CAUTION

The right edge of the sight base has a chamfer to ease installation of the sight to the slide. Install front sight from the left side of the slide to prevent damage to sight base or dovetail.

3. Start the front sight (Figure 8, Item 3) into the slide.

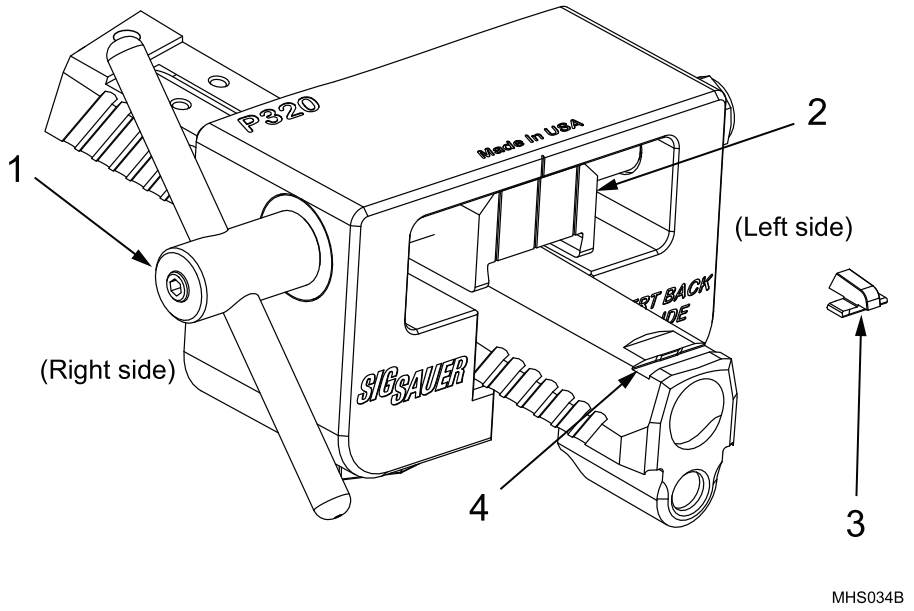


Figure 8. Front Sight Installation.

4. Insert slide into sight pusher tool until flush with front of tool. Tighten rail clamp (Figure 9, Item 5).
5. Adjust sight pusher (Figure 9, Item 2) by turning handle (Figure 9, Item 1) to align index mark of sight pusher tool body (Figure 9, Item 3) with index mark of sight pusher (Figure 9, Item 4) to center the front sight.
6. Center sight pusher (Figure 9, Item 2) and loosen rail clamp (Figure 9, Item 5) to remove slide from sight pusher tool.

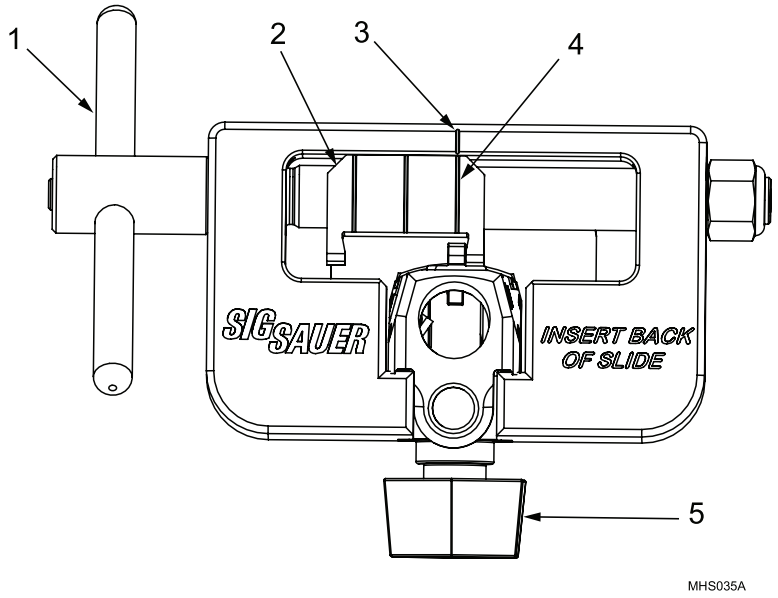


Figure 9. Front Sight Alignment.

7. Insert loaded chamber indicator spring (Figure 10, Item 2) and loaded chamber indicator (Figure 10, Item 1) into slide (Figure 10, Item 3).

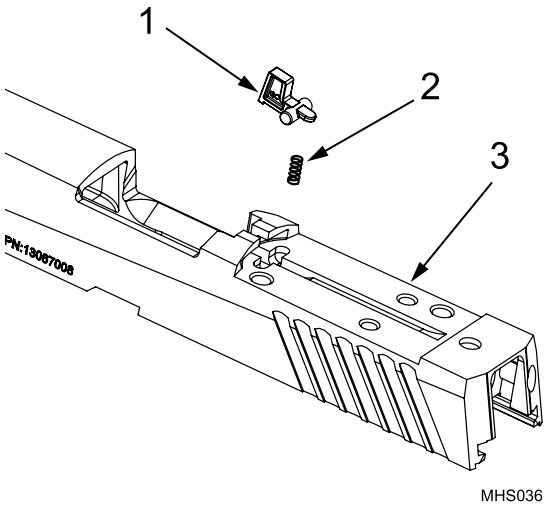


Figure 10. Loaded Chamber Indicator Installation.

NOTE

Perform step 8 for one piece rear sight installation.

8. Install rear sight plate (Figure 11, Item 1) on slide (Figure 11, Item 4) with new screw (Figure 11, Item 5). Tighten screw to 31 in-lb (3.5 Nm).

NOTE

Perform step 9 for two piece rear sight installation.

9. Install rear sight plate (Figure 11, Item 3), rear sight (Figure 11, Item 2), and new screw (Figure 11, Item 5). Tighten screw to 31 in-lb (3.5 Nm).

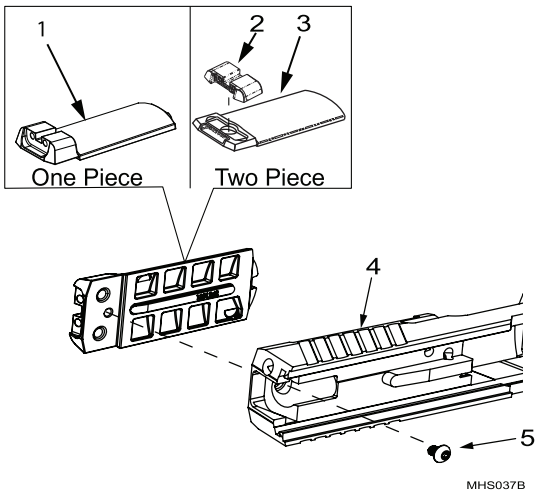


Figure 11. Rear Sight Installation.

10. Insert striker assembly (Figure 12, Item 1) in slide (Figure 12, Item 2) pushing it completely forward.

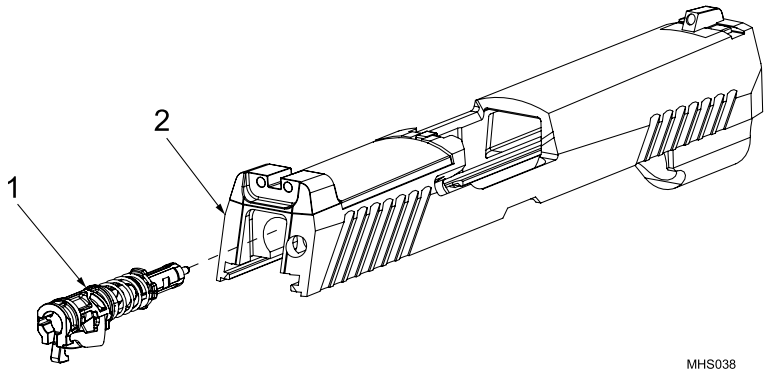


Figure 12. Striker Assembly Installation.

11. Install extractor (Figure 13, Item 2) into slide (Figure 13, Item 1).
12. Attach extractor spring (Figure 13, Item 4) to extractor pin (Figure 13, Item 3) and insert in slide with notch facing striker.
13. Install tamper resistant extractor tension pin (Figure 13, Item 5) into slide (Figure 13, Item 1).

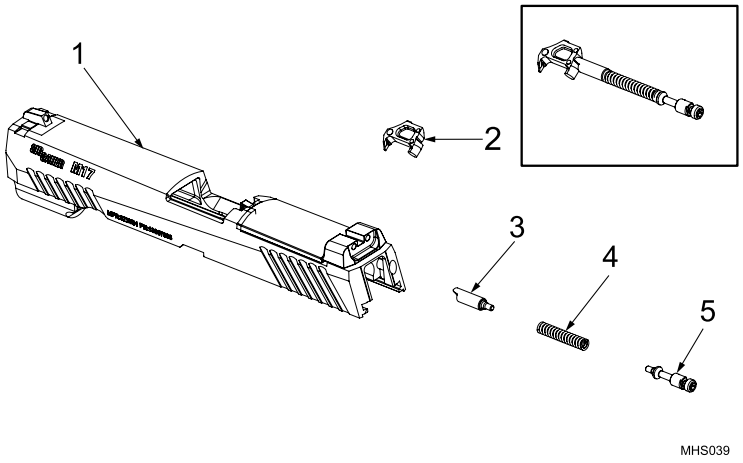


Figure 13. Extractor Components Installation.

14. Depress tamper resistant extractor spring pin (Figure 14, Item 2) and install rear cap (Figure 14, Item 3) onto slide (Figure 14, Item 1).
15. Depress and rotate tamper resistant extractor tension pin (Figure 14, Item 2) 180° until it snaps into place.

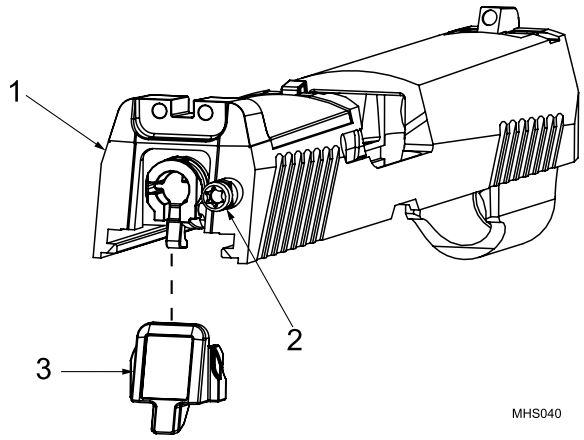


Figure 14. Rear Cap Installation.

END OF TASK

TESTING

SLIDE FUNCTION TEST

1. Apply slight forward pressure to the striker pin (Figure 15, Item 1) toward the muzzle end of the slide. Striker pin should not protrude from breech face of slide (Figure 15, Item 3).
2. Press up on the safety lock (Figure 15, Item 4).
3. Press striker pin (Figure 15, Item 1) forward. Striker pin should move and striker pin should protrude from breech face of slide (Figure 15, Item 3).
4. While holding striker pin (Figure 15, Item 1) forward, release safety lock (Figure 15, Item 4). Safety lock should still be held down.
5. Release striker pin (Figure 15, Item 1). Safety lock (Figure 15, Item 4) should reset. You should hear a slight click.
6. Apply slight forward pressure to the striker pin (Figure 15, Item 1) toward the muzzle end of the slide. Striker pin should not protrude from breech face of slide (Figure 15, Item 3).
7. Check extractor tension by lifting up extractor (Figure 15, Item 2) and releasing. Extractor spring should produce resistance.

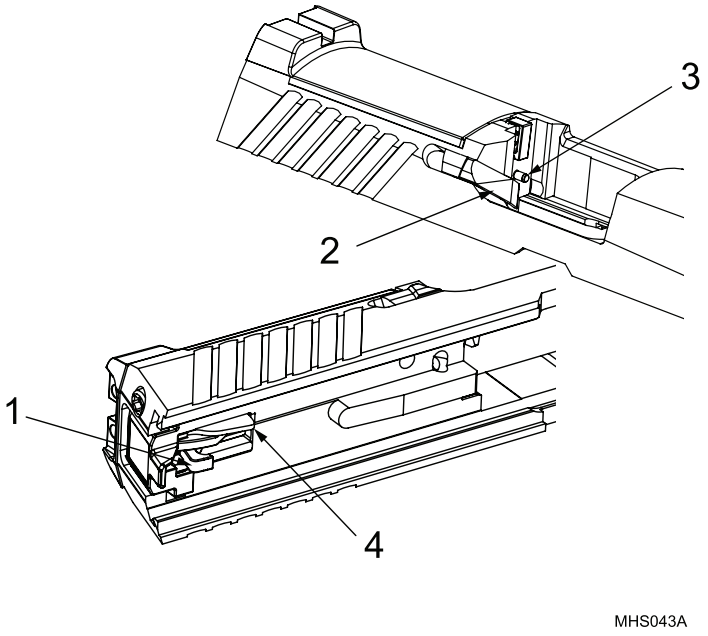


Figure 15. Function Test.

END OF TASK

FOLLOW-ON MAINTENANCE

Assemble weapon (WP 0009).

END OF WORK PACKAGE

MAINTAINER MAINTENANCE

RECEIVER/GRIP MODULE REPAIR

INITIAL SETUP:

Tools and Special Tools
Armorer Bench Block (WP 0024, Item 3)
Tool Kit, Small Arms (WP 0024, Item 1)

Materials
CLP (WP 0023, Item 3)
Coiled spring pin (WP 0025, Item 1)
Wiping rag (WP 0023, Item 7)

Personnel Required
Small Arms/Artillery Repairer 91F

Equipment Condition
Unloaded/cleared (TM 9-1005-470-10)
Slide removed (WP 0009)

WARNING

Parts are under spring pressure. Wear appropriate eye protection and use care during removal and installation. Failure to comply may result in injury to personnel.

CAUTION

Replacement parts for original configuration weapons (serial number range: TC000007-TC000136 and TF000006-TF005908) must be requested by contacting usarmy.pica.peo-soldier.list.pmsw-mhs-spares@mail.mil. Use of upgraded configuration parts on original configuration weapons may cause damage to equipment.

DISASSEMBLY

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

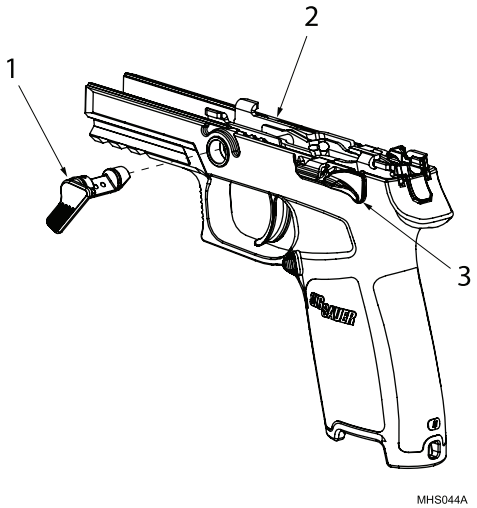


Figure 1. Takedown Lever Removal.

NOTE

Step 3 should only be performed if the O-ring requires replacement. The O-ring should be replaced when it becomes worn to the point that it does not provide a snug fit when installed in the grip module, it is cut or damaged, it provides too much resistance requiring excessive force to install the takedown lever, or has an adverse reaction to cleaning solvents, lubricants, or environmental conditions.

3. Remove O-ring (Figure 2, Item 2) from takedown lever (Figure 2, Item 1).

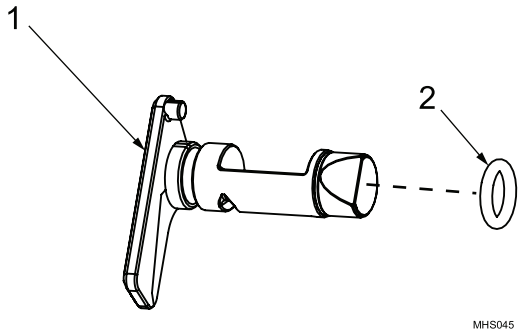


Figure 2. O-ring Removal.

4. Remove receiver (Figure 3, Item 2) by pushing receiver forward then lifting upward from grip module (Figure 3, Item 1).

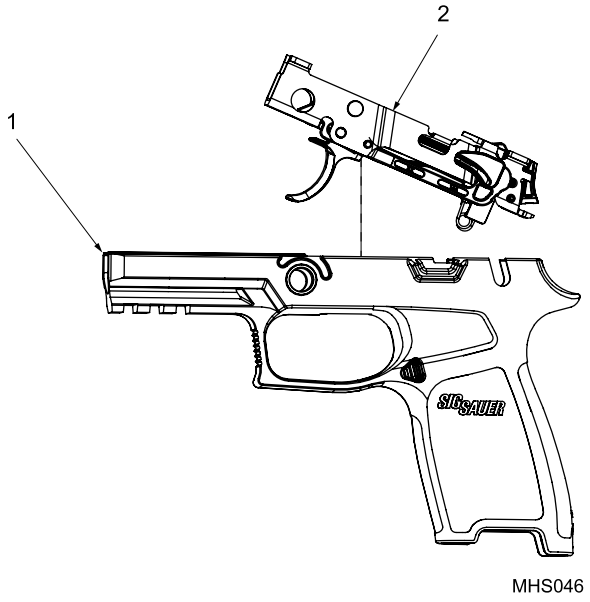


Figure 3. Receiver Removal.

5. Pull rear of trigger bar (Figure 4, Item 2) out of sear housing (Figure 4, Item 5).
6. Remove hook end of trigger bar spring (Figure 4, Item 4) from receiver (Figure 4, Item 1) then remove trigger bar spring from trigger bar (Figure 4, Item 2).
7. Remove trigger (Figure 4, Item 3) and trigger bar (Figure 4, Item 2) from receiver (Figure 4, Item 1).

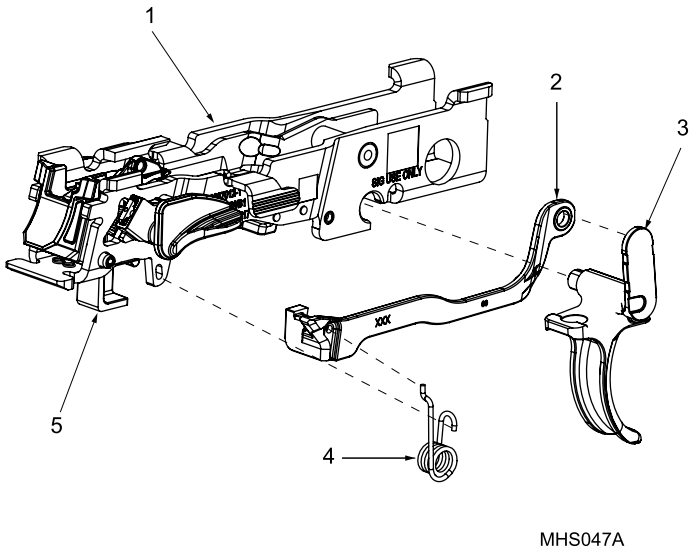


Figure 4. Trigger Bar Removal.

8. Ensure takedown safety lever (Figure 5, Item 1) is rearward and can be retained in that position by slide catch lever (Figure 5, Item 2). The tab of the slide catch lever (Figure 5, Item 2) should be out of the rectangular hole (Figure 5, Item 3) in the takedown safety lever. This will expose the sear pin (Figure 5, Item 4) on left side of receiver.

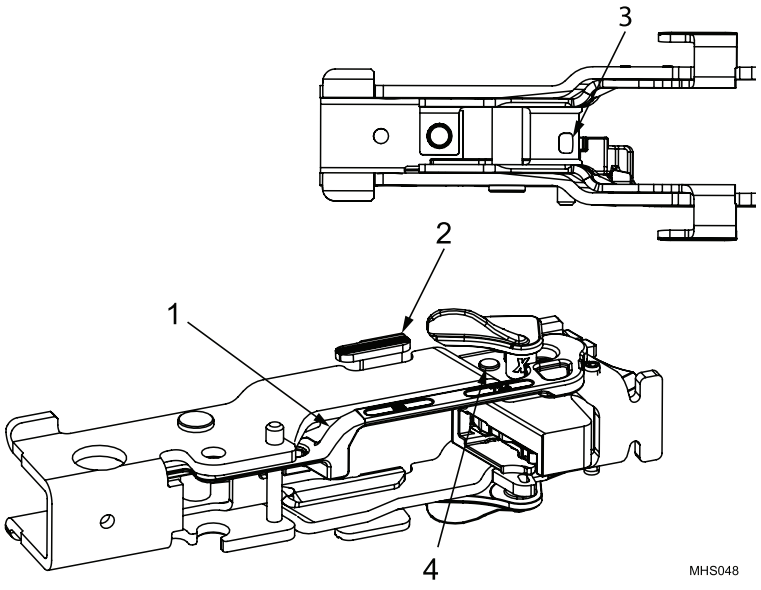


Figure 5. Takedown Safety Lever Position.

9. Push sear pin (Figure 6, Item 1) from right to left until it is flush with right side of the receiver (Figure 6, Item 3).
10. Rotate right side manual safety lever (Figure 6, Item 2) counterclockwise until it stops.

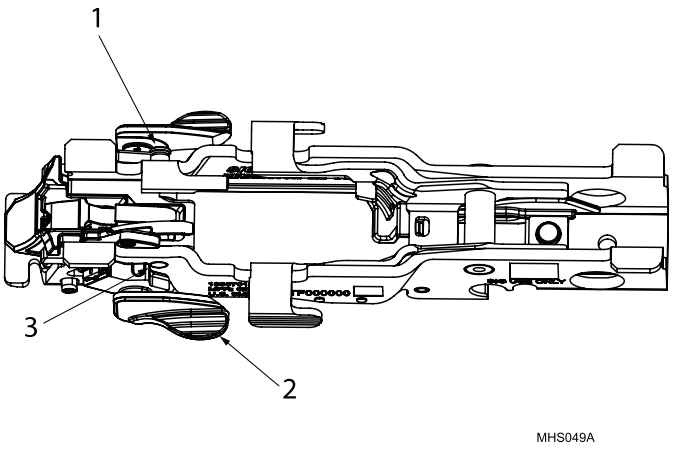


Figure 6. Sear Pin Right to Left.

NOTE

Manual safety detent is under spring pressure. Applying pressure during removal will prevent loss of parts.

11. Remove right side manual safety lever (Figure 7, Item 3) from shaft of left side manual safety lever (Figure 7, Item 2) by pulling it outward while applying slight pressure on manual safety detent (Figure 7, Item 1).

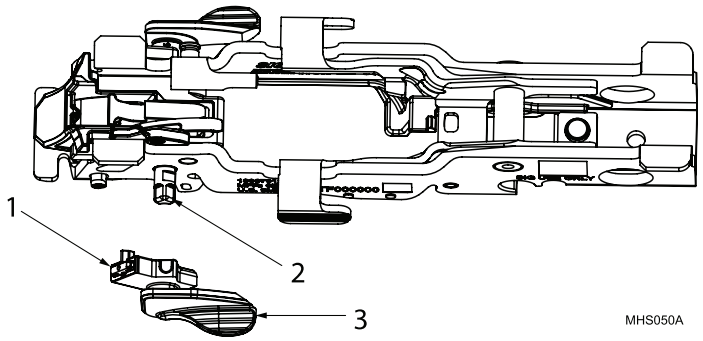


Figure 7. Right Side Manual Safety Lever Removal.

12. Remove manual safety detent (Figure 8, Item 1) and manual safety spring (Figure 8, Item 2) from right side manual safety lever (Figure 8, Item 3).

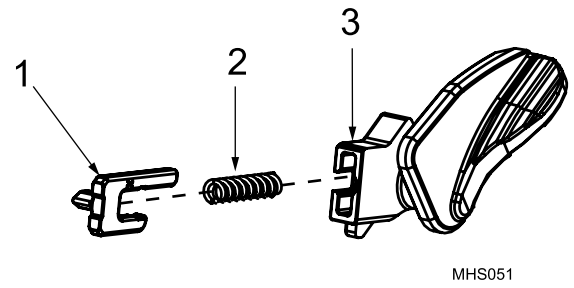


Figure 8. Manual Safety Detent Disassembly.

13. Push sear pin (Figure 9, Item 1) from left to right until it stops.

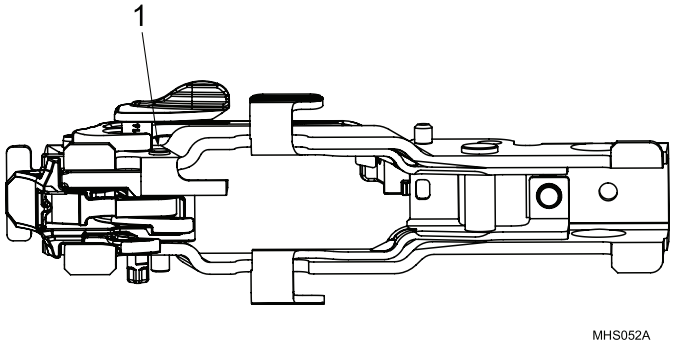


Figure 9. Sear Pin Left to Right.

14. Remove left side manual safety lever (Figure 10, Item 1).

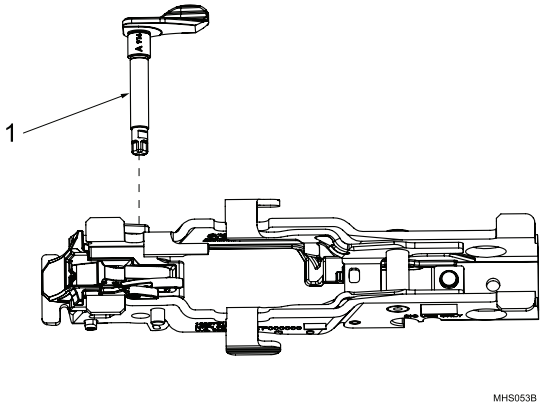


Figure 10. Left Side Manual Safety Lever Removal.

15. Remove slide catch lever pin (Figure 11, Item 5) from receiver (Figure 11, Item 1).
16. Remove slide catch lever (Figure 11, Item 3), slide catch lever spring (Figure 11, Item 2), and slide catch lever post (Figure 11, Item 4).

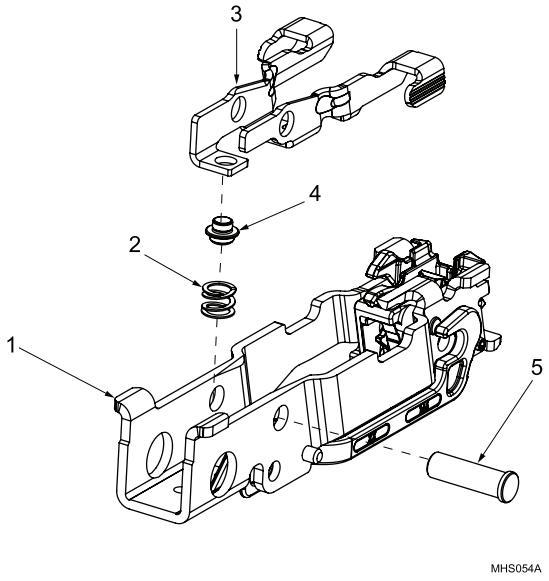


Figure 11. Slide Catch Lever Removal.

NOTE

The trigger stop pin only requires removal if the takedown safety lever needs to be replaced.

The takedown safety lever does not have to be removed to remove the sear housing assembly.

17. Set the receiver in the “REMOVE PINS” side of the Armorer Bench Block.
18. Drive out the trigger stop pin (Figure 12, Item 1) with a 1/16” roll pin punch. Remove receiver from Armorer Bench Block.

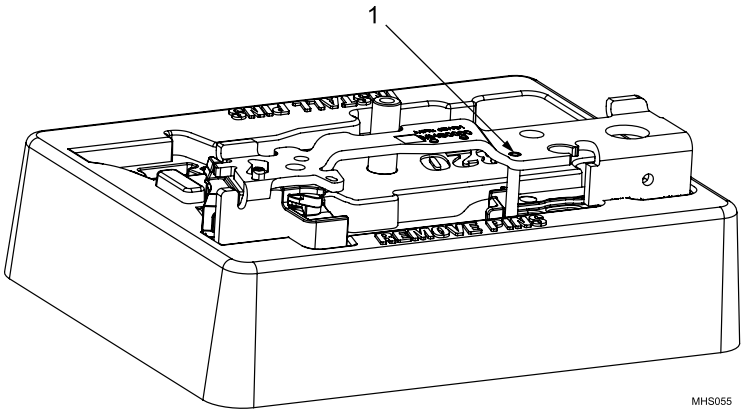


Figure 12. Trigger Stop Pin Removal.

19. Remove takedown safety lever (Figure 13, Item 1) from receiver by pulling it back slightly then shifting front of lever toward right side of receiver. The rear arm of takedown safety lever (Figure 13, Item 2) will pull out of sear housing.

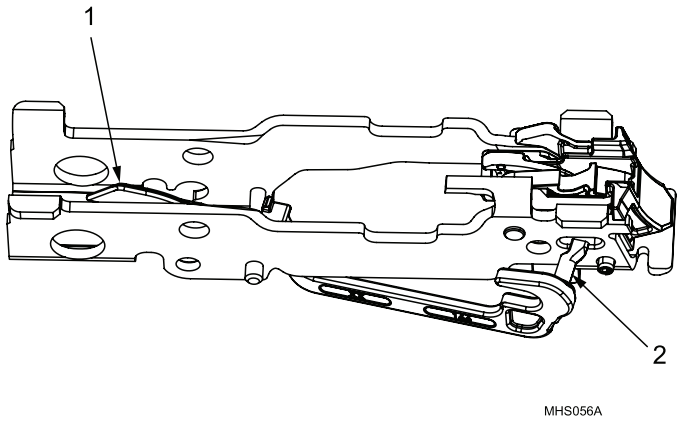


Figure 13. Takedown Safety Lever Removal.

NOTE

Steps 20 through 24 should only be performed if replacement of the sear housing is required.

20. Set receiver in the “REMOVE PINS” side of the Armorer Bench Block.
21. Drive out coiled spring pin (Figure 14, Item 1) using a 3/32” roll pin punch. Discard coiled spring pin.

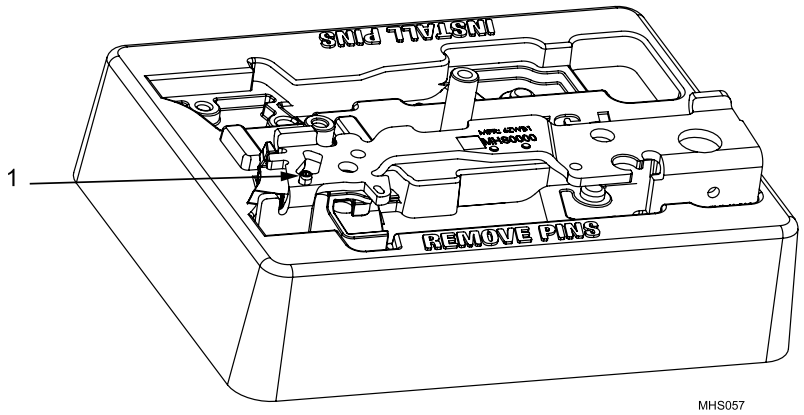
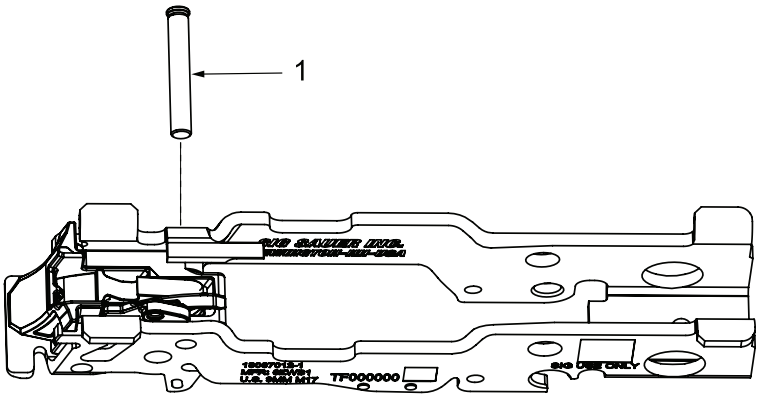


Figure 14. Coiled Spring Pin Removal.

22. Use 3/32” punch to push out sear pin (Figure 15, Item 1).



MHS058C

Figure 15. Sear Pin Removal.

23. Remove sear housing (Figure 16, Item 2) from receiver (Figure 16, Item 1).

NOTE

Proceed to step 24 for upgraded configuration only. Original configuration weapons (serial number range: TC000007-TC000136 and TF000006-TF005908) do not have a disconnector.

24. Remove disconnector (Figure 16, Item 3) from sear housing (Figure 16, Item 2).

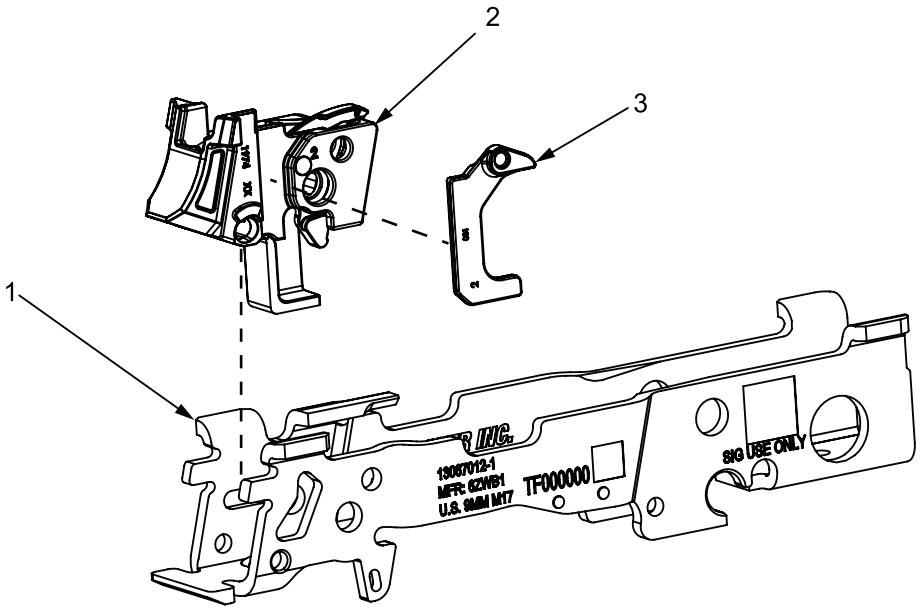


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Figure 16. Sear Housing and Disconnector Removal.

END OF TASK

CLEANING

CAUTION

The use of compressed air to clean the receiver may dislodge small parts.

1. Remove dirt and corrosion or powder residue from parts with wiping rag dampened with CLP.
2. Thoroughly clean and dry the receiver.
3. If the pistol has been used in salt water environments and/or submerged, flush the entire pistol with clean fresh water. Completely disassemble the pistol, clean, lubricate, and reassemble (TM 9-1005-470-10).

END OF TASK

INSPECTION

1. Visually inspect all parts for damage or excessive wear.
2. Inspect external surfaces for any loss of finish.

END OF TASK

ASSEMBLY

NOTE

Perform steps 1 through 3 if sear housing assembly was removed.

Step 1 is for upgraded configuration only. Original configuration weapons (serial number range: TC000007-TC000136 and TF000006-TF005908) do not have a disconnector.

1. Position disconnector (Figure 17, Item 2) in channel of sear housing (Figure 17, Item 1).

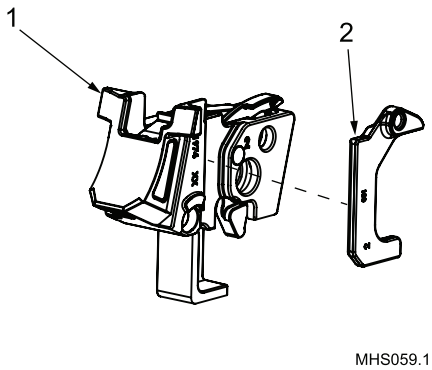

Figure 17. Disconnector Position.

2. Insert sear housing assembly (Figure 18, Item 2) into receiver (Figure 18, Item 1).

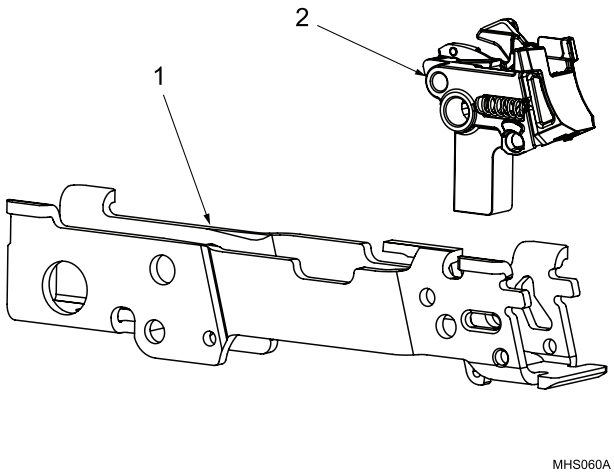

Figure 18. Sear Housing Installation.

NOTE

Assembly assist pin does not need to be retained.

3. Push sear pin (Figure 19, Item 1) in until flush with left side of receiver. Assembly assist pin (Figure 19, Item 2) will be pushed out.

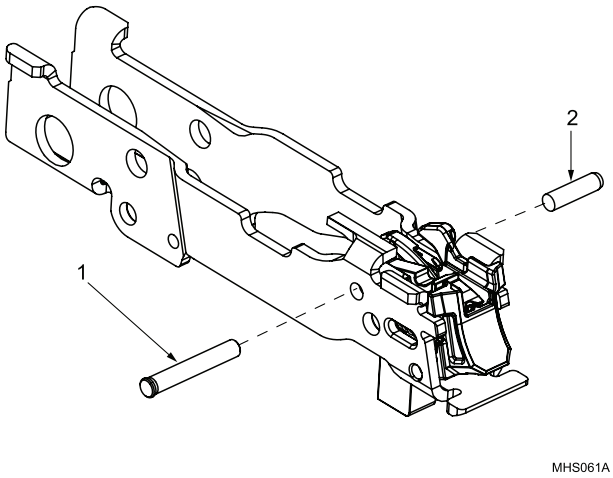

Figure 19. Sear Pin Installation.

4. Position receiver (Figure 20, Item 1) in “INSTALL PINS” side of Armorer Bench Block.
5. Install new coiled spring pin (Figure 20, Item 2) until it is centered in receiver leaving equal lengths of pin extending out from each side.

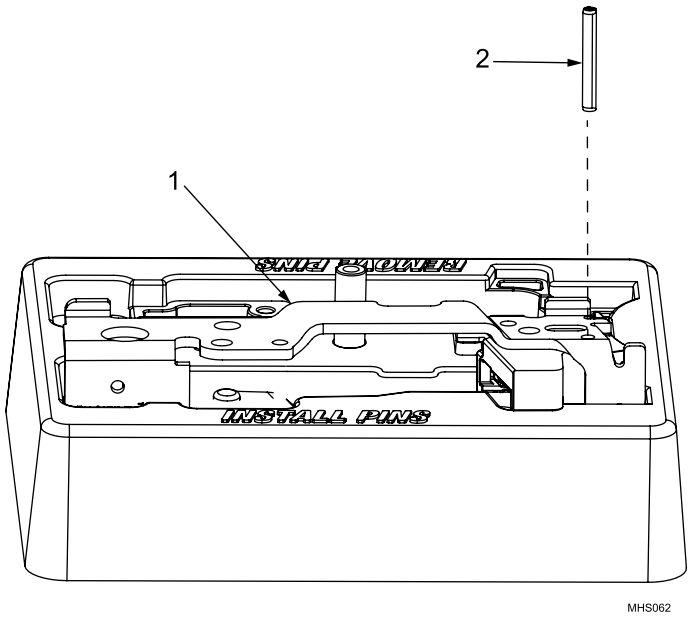

Figure 20. Coiled Spring Pin Installation.

6. Position takedown safety lever (Figure 21, Item 2) inside receiver (Figure 21, Item 1) with rear of lever angled outward.

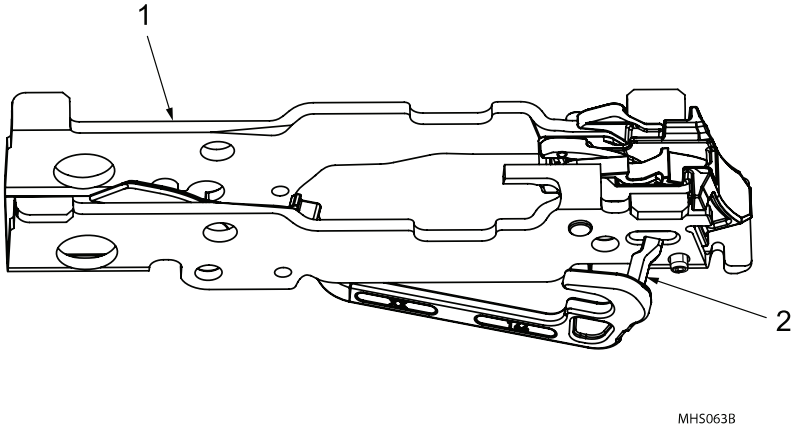

Figure 21. Takedown Safety Lever Installation.

CAUTION

Use care to avoid damage to spring when compressing.

7. Use 1/16” punch to compress takedown safety lever spring (Figure 22, Item 3) toward the rear of the sear housing (Figure 22, Item 2).
8. Insert the arm of the takedown safety lever (Figure 22, Item 1) into the sear housing (Figure 22, Item 2). Slide takedown safety lever to left side of receiver.

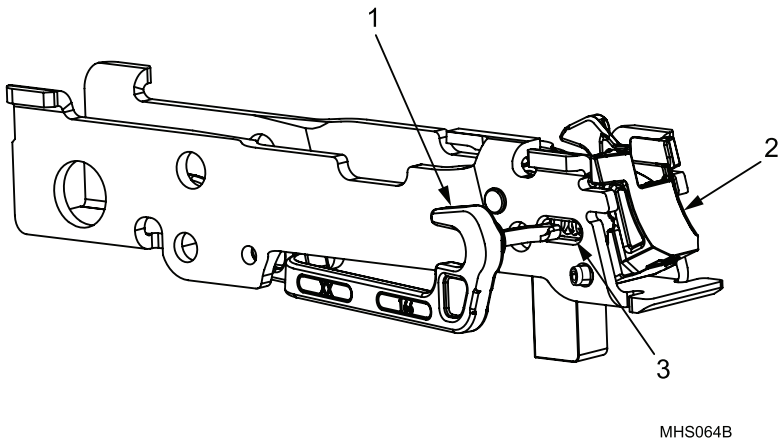

Figure 22. Takedown Safety Lever Spring.

NOTE

Only perform steps 9-11 if takedown safety lever was removed.

9. Insert trigger stop pin (Figure 23, Item 1) through left side of receiver (Figure 23, Item 2).

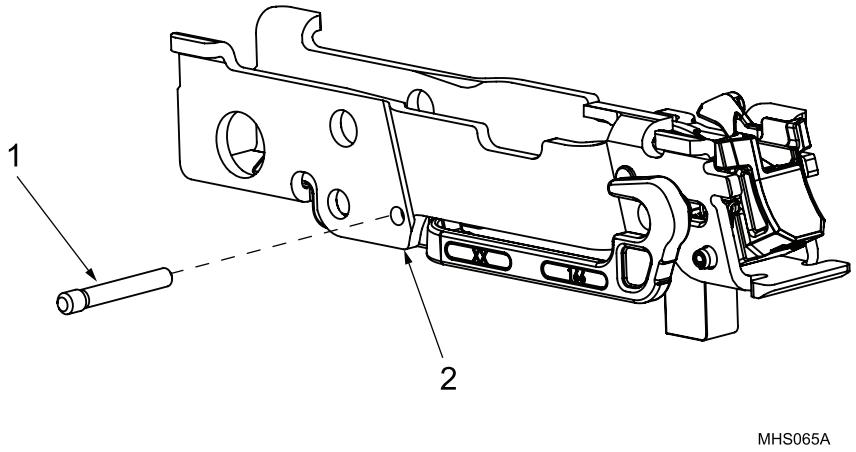

Figure 23. Trigger Stop Pin Installation.

NOTE

Check takedown safety lever for spring tension before completing installation of trigger stop pin.

10. Position receiver assembly with head of trigger stop pin (Figure 24, Item 1) resting on anvil post (Figure 24, Item 2).

CAUTION

Avoid hitting receiver body while flaring trigger stop pin.

11. Flare trigger stop pin (Figure 24, Item 1) with center punch.

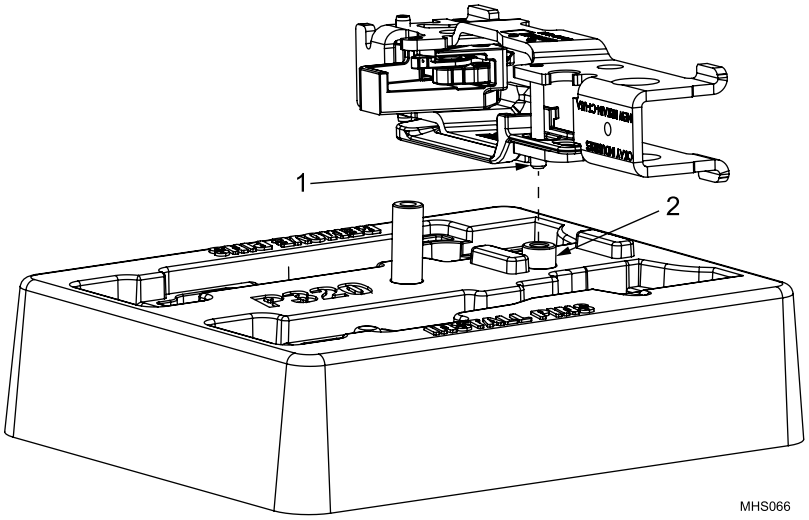

Figure 24. Trigger Stop Pin Flaring.

12. Position slide catch lever (Figure 25, Item 4) upside down.
13. Install slide catch lever post (Figure 25, Item 3) on slide catch lever.
14. Install slide catch lever spring (Figure 25, Item 1) on slide catch lever post.
15. Hold receiver assembly (Figure 25, Item 2) upside down and set it on top of slide catch lever.

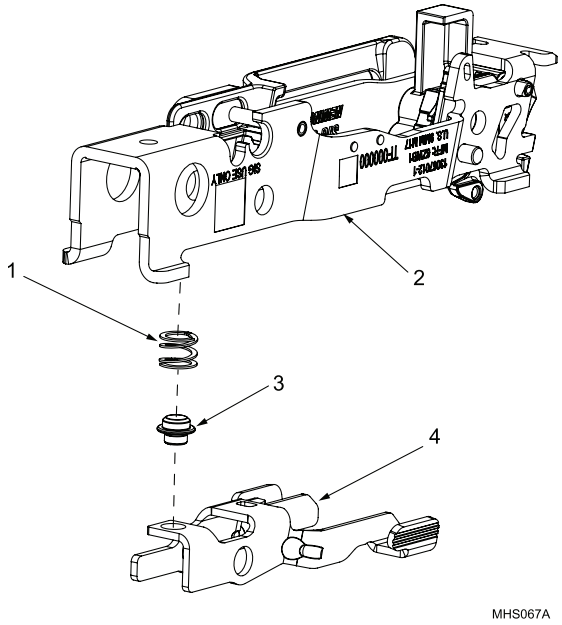

Figure 25. Slide Catch Lever Installation.

16. Install slide catch lever pin (Figure 26, Item 1) from left side of receiver.
17. Lift slide catch lever to check for spring tension.

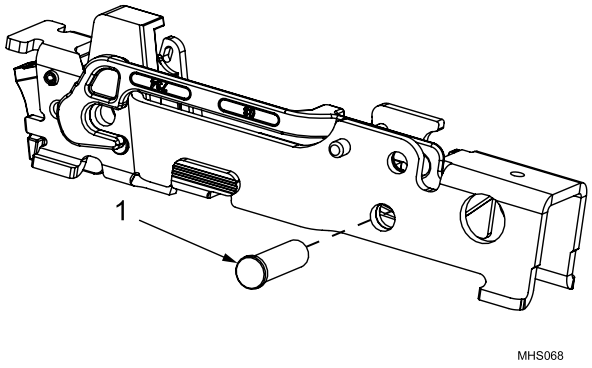

Figure 26. Slide Catch Lever Pin Installation.

NOTE

The takedown safety lever must be pre-positioned correctly to install the manual safety components.

18. Lock takedown safety lever (Figure 27, Item 1) behind slide catch lever (Figure 27, Item 2) by pulling up on slide catch lever as you pull back takedown safety lever.

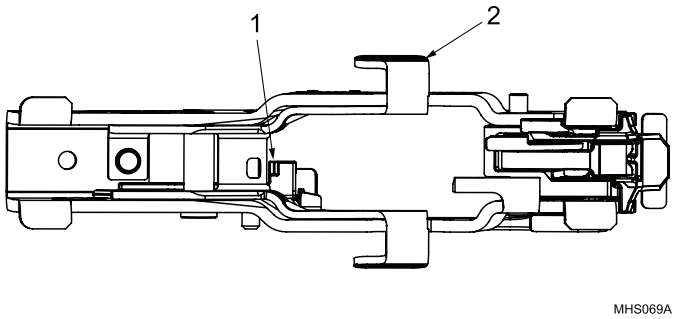

Figure 27. Takedown Safety Lever Position.

NOTE

Safety lever assembly assist pin will be pushed out upon installing left side manual safety lever and does not need to be retained.

19. Push left side manual safety lever (Figure 28, Item 3) into receiver (Figure 28, Item 1) until it pushes out assembly assist pin (Figure 28, Item 2) and stops.

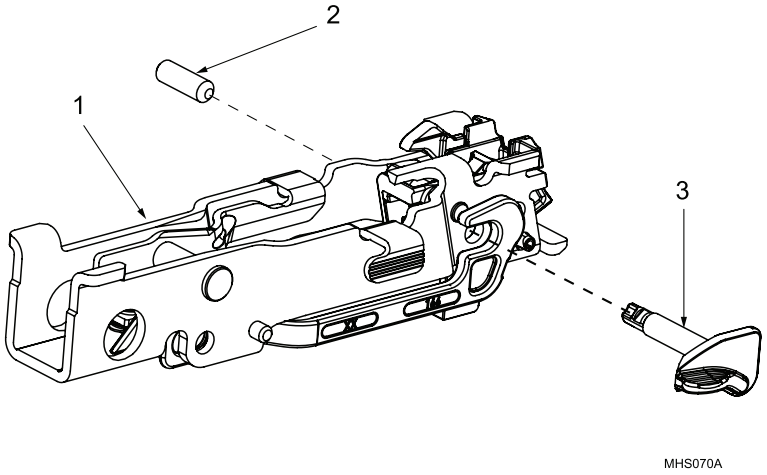

Figure 28. Left Side Manual Safety Lever Installation.

20. Push sear pin (Figure 29, Item 2) from right to left until flush with the right side of receiver (Figure 29, Item 3).
21. Rotate left side manual safety lever (Figure 29, Item 1) upward.

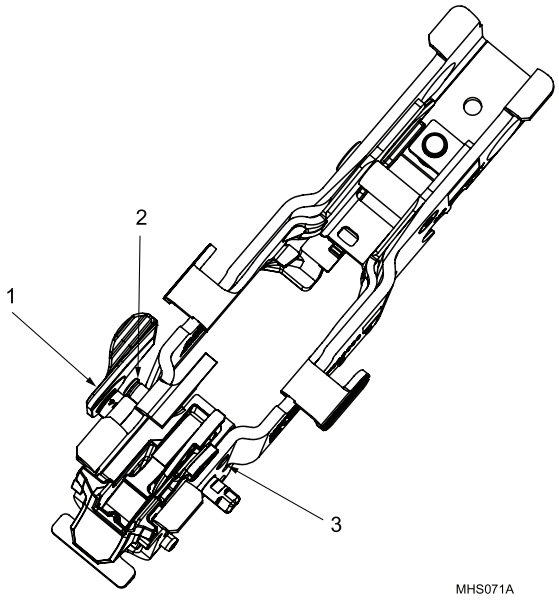

Figure 29. Sear Pin Position.

22. Install manual safety spring (Figure 30, Item 3) into right side manual safety lever (Figure 30, Item 1).
23. Slide manual safety detent (Figure 30, Item 2) over spring and insert into manual safety lever (Figure 30, Item 1).

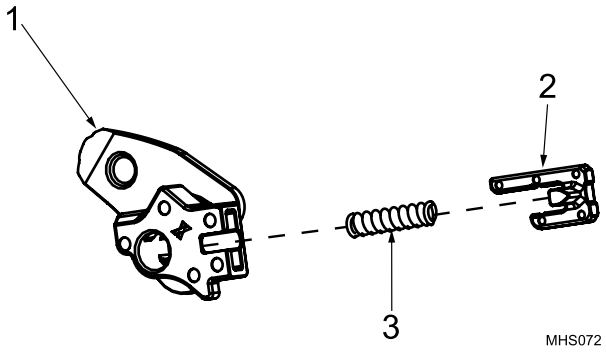

Figure 30. Manual Safety Detent Assembly.

24. Align tab of manual safety detent (Figure 31, Item 4) with opening in receiver (Figure 31, Item 1) and push right side manual safety lever (Figure 31, Item 3) onto left side manual safety lever shaft (Figure 31, Item 2).

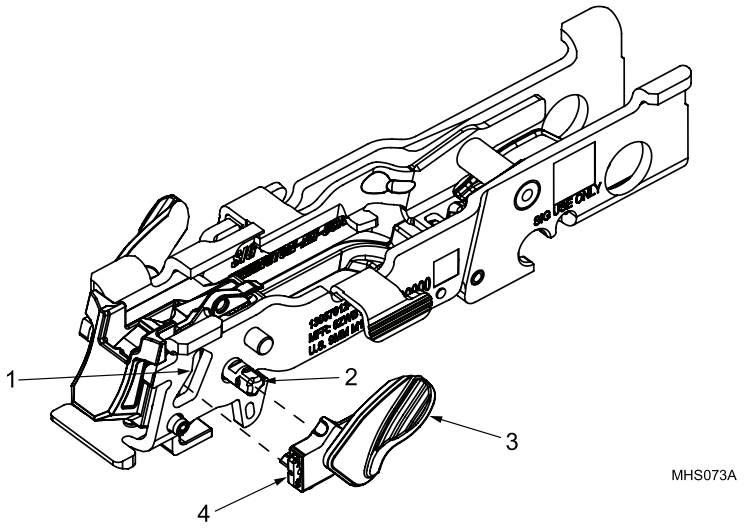

Figure 31. Right Side Manual Safety Lever Installation.

25. Rotate right side manual safety lever (Figure 32, Item 1) clockwise until detent clicks into place.

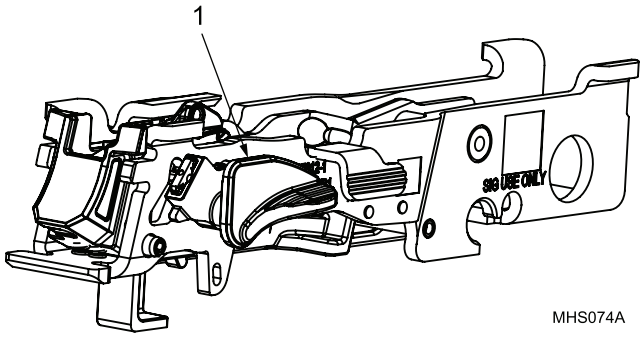

Figure 32. Right Side Manual Safety Lever Position.

26. Push right side manual safety lever (Figure 33, Item 2) up slightly then push sear pin (Figure 33, Item 1) in receiver until it stops.

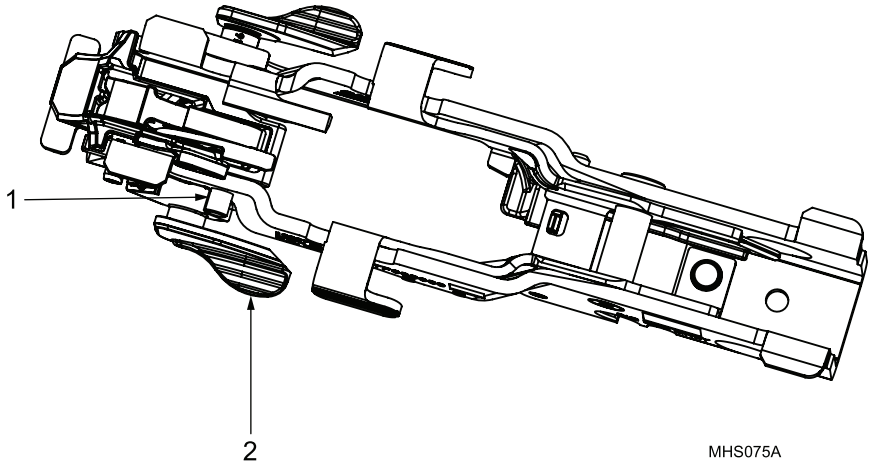

Figure 33. Reposition Sear Pin.

27. Attach trigger bar spring (Figure 34, Item 2) to trigger bar (Figure 34, Item 1).

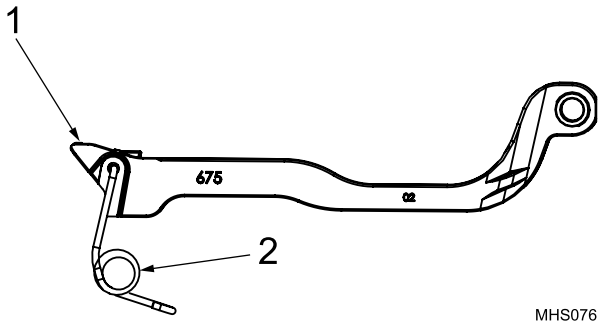

Figure 34. Trigger Bar Spring to Trigger Bar.

28. Attach hook end of trigger bar spring (Figure 35, Item 1) to receiver.

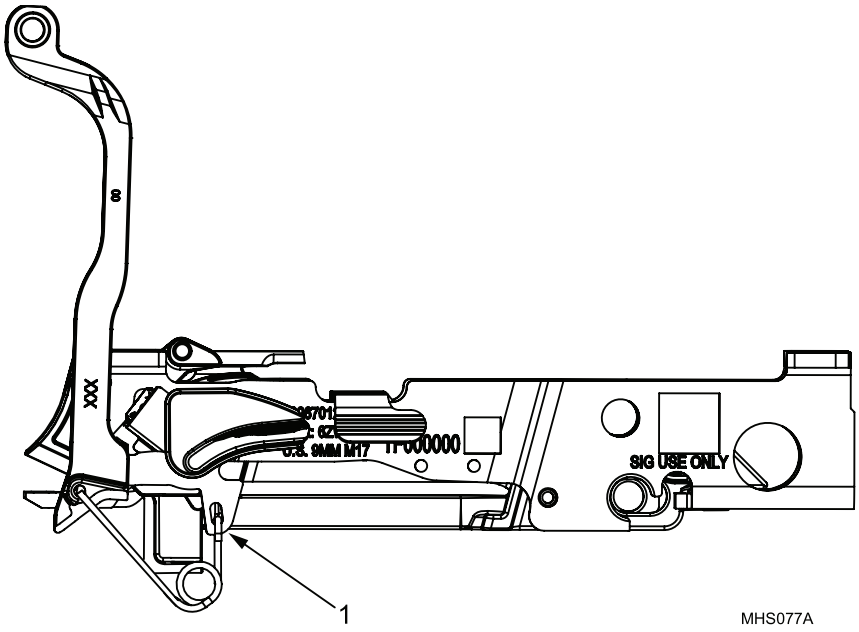

Figure 35. Trigger Bar Spring to Receiver.

29. Rotate trigger bar (Figure 36, Item 1) clockwise. Ensure the back of the trigger bar (Figure 36, Item 2) is behind the sear housing (Figure 36, Item 3).

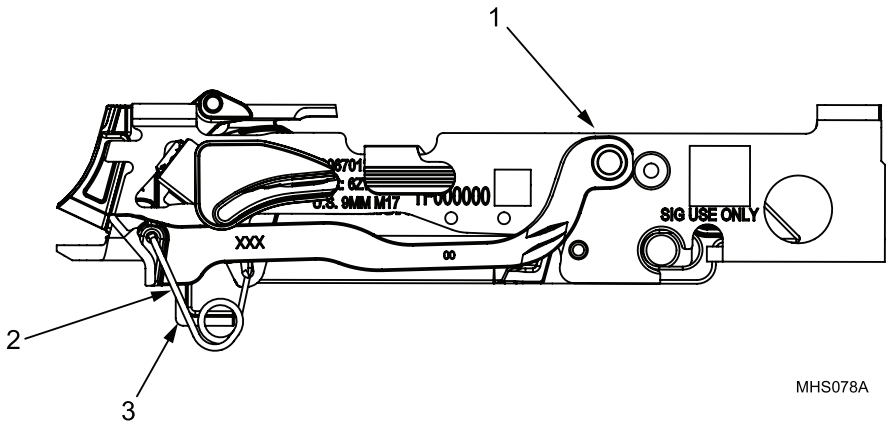

Figure 36. Trigger Bar.

30. Pull trigger bar (Figure 37, Item 1) forward and attach trigger (Figure 37, Item 2).
31. Rotate trigger (Figure 37, Item 2) counterclockwise until inserted into receiver (Figure 37, Item 3).

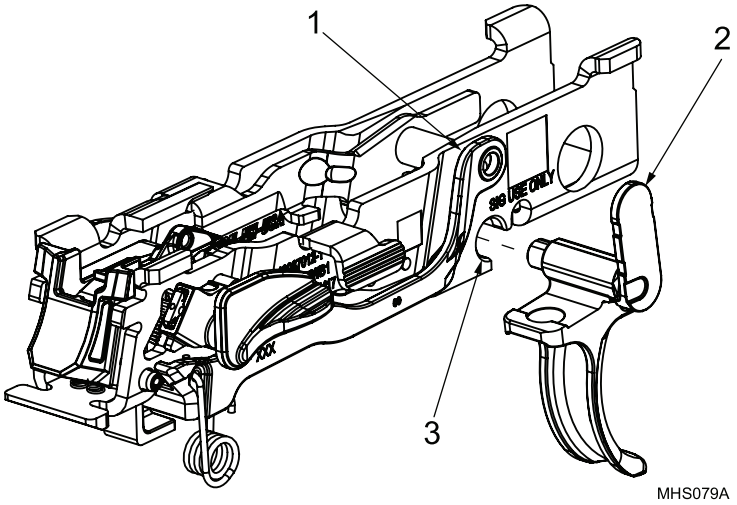

Figure 37. Trigger Installation.

32. Lift rear of trigger bar (Figure 38, Item 3) and set into sear housing (Figure 38, Item 1). Press trigger (Figure 38, Item 2) to seat trigger bar.

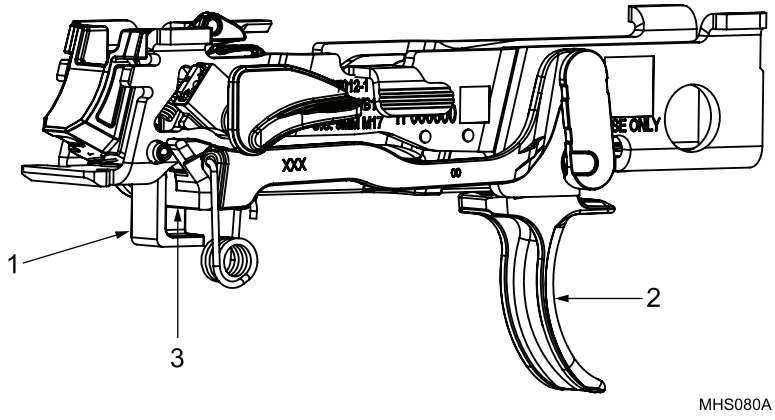

Figure 38. Trigger Bar Seated.

33. Press down manual safety lever (Figure 39, Item 2) to disengage.
34. Insert rear tabs of receiver (Figure 39, Item 3) into grip module (Figure 39, Item 1). Press trigger slightly rearward and push receiver assembly down into grip module.

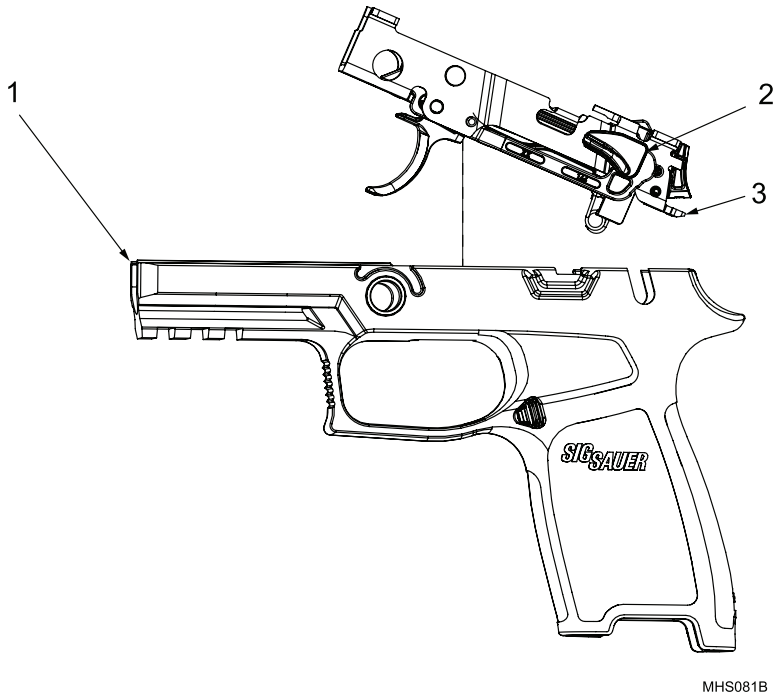

Figure 39. Receiver to Grip Module.

NOTE

Step 35 should only be performed if O-ring was removed.

A light coat of CLP will aid in installation of O-ring.

35. Install new O-ring (Figure 40, Item 2) on takedown lever (Figure 40, Item 1).

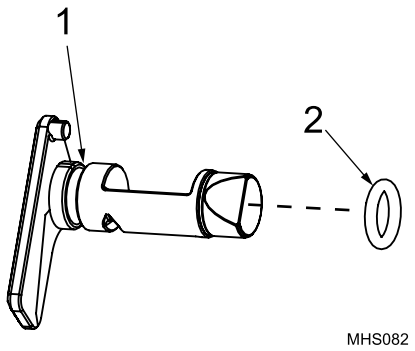

Figure 40. O-ring Installation.

36. Install takedown lever (Figure 41, Item 1) into receiver/grip module (Figure 41, Item 2) and rotate clockwise until it stops.

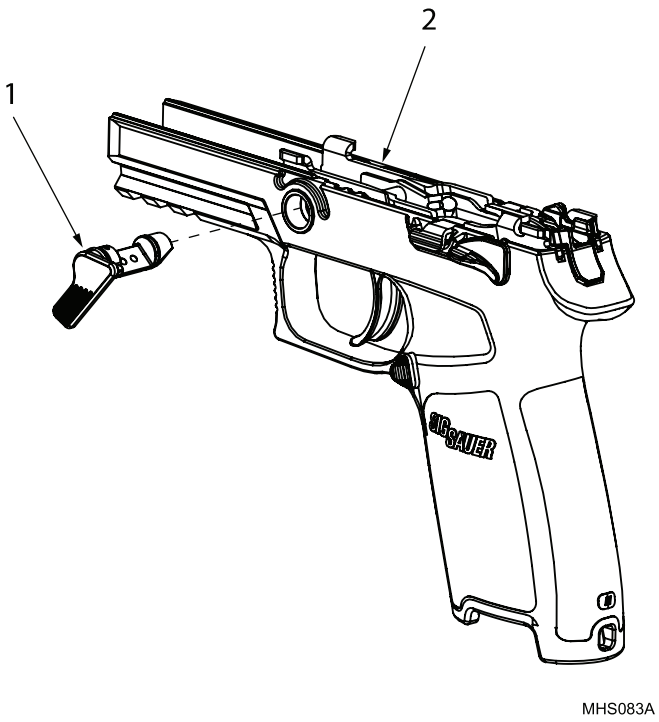

Figure 41. Takedown Lever Installation.

END OF TASK

TESTING

SAFETY/FUNCTION TEST

1. Rotate takedown lever (Figure 42, Item 6) clockwise to unlocked position and disengage manual safety (Figure 42, Item 4). The sear should already be depressed and trigger pull should not result in substantial sear motion. Slight trigger bar and safety lever movement is normal during this check.
2. Rotate takedown lever (Figure 42, Item 6) counterclockwise to locked position and lift slide catch lever (Figure 42, Item 2) to allow takedown safety lever (Figure 42, Item 1) to reset. Pressing trigger (Figure 42, Item 5) should result in safety lever (Figure 42, Item 3) moving upward and sear compressing sear springs and then being released. Safety lever (Figure 42, Item 3) should drop back down upon release of trigger (Figure 42, Item 5).
3. Engage manual safety (Figure 42, Item 4). Attempt to press trigger (Figure 42, Item 5) to rear. Slight rearward movement will be felt but the trigger (Figure 42, Item 5) should not move completely rearward. Slight upward movement of safety lever (Figure 42, Item 3) during this test is normal.
4. If any of the above function checks cannot be completed as described, disassemble, inspect, reassemble, and recheck.

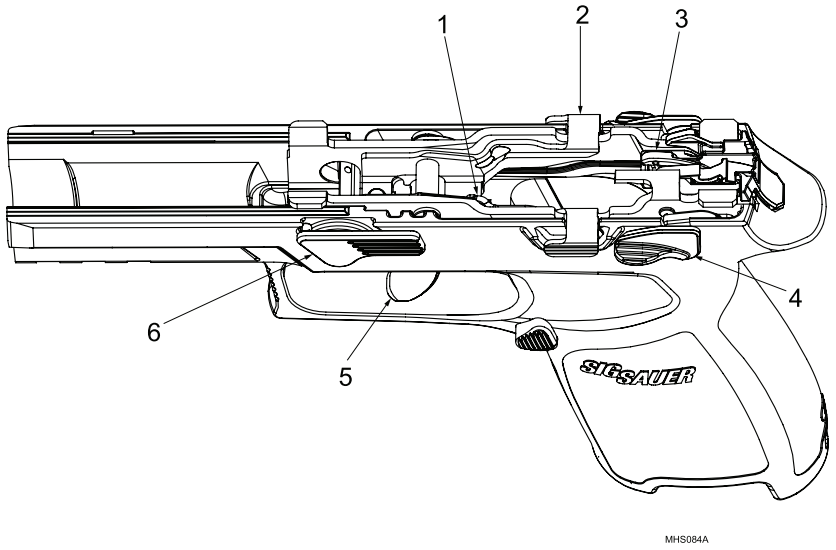

Figure 42. Assembled Receiver.

END OF TASK

MAGAZINE CATCH REPAIR

NOTE

Slide does not need to be removed for magazine catch repair.

1. Press in on magazine catch exposing access hole (Figure 43, Item 3).
2. Insert a thin pointed object through hole in magazine catch until it contacts magazine catch stop (Figure 43, Item 2).
3. Remove magazine catch stop (Figure 43, Item 2) from receiver/grip module (Figure 43, Item 1).

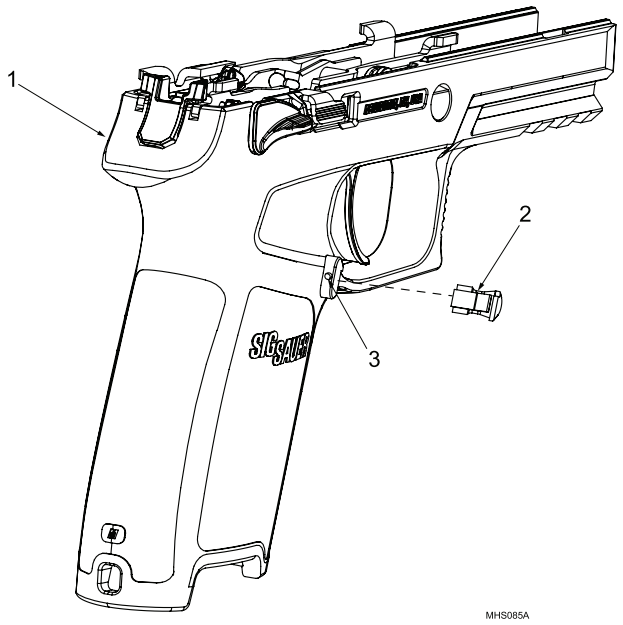

Figure 43. Magazine Stop Removal.

4. Remove magazine catch (Figure 44, Item 3) and magazine catch spring (Figure 44, Item 2) from receiver/grip module (Figure 44, Item 1).

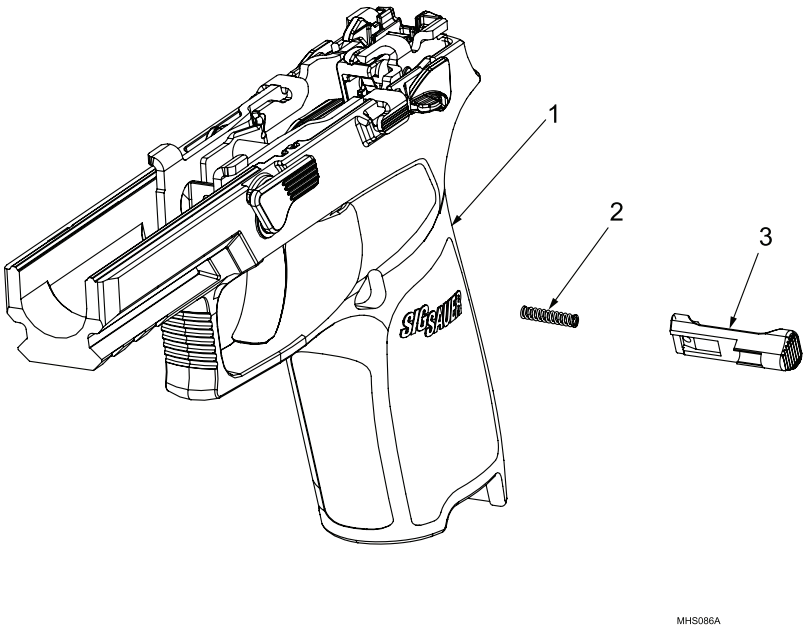

Figure 44. Magazine Catch Removal.

5. Install magazine catch spring (Figure 45, Item 1) into spring pocket of magazine catch (Figure 45, Item 2).

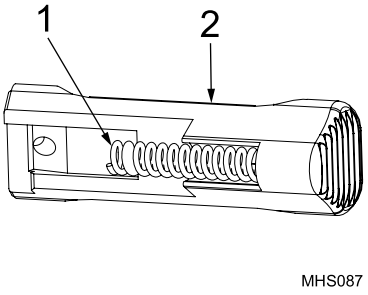

Figure 45. Magazine Catch Spring.

NOTE

Holding the weapon muzzle downward will aid in keeping the magazine catch and magazine catch spring in place.

6. Install magazine catch (Figure 46, Item 2) and magazine catch spring (Figure 46, Item 3) into grip module (Figure 46, Item 1).

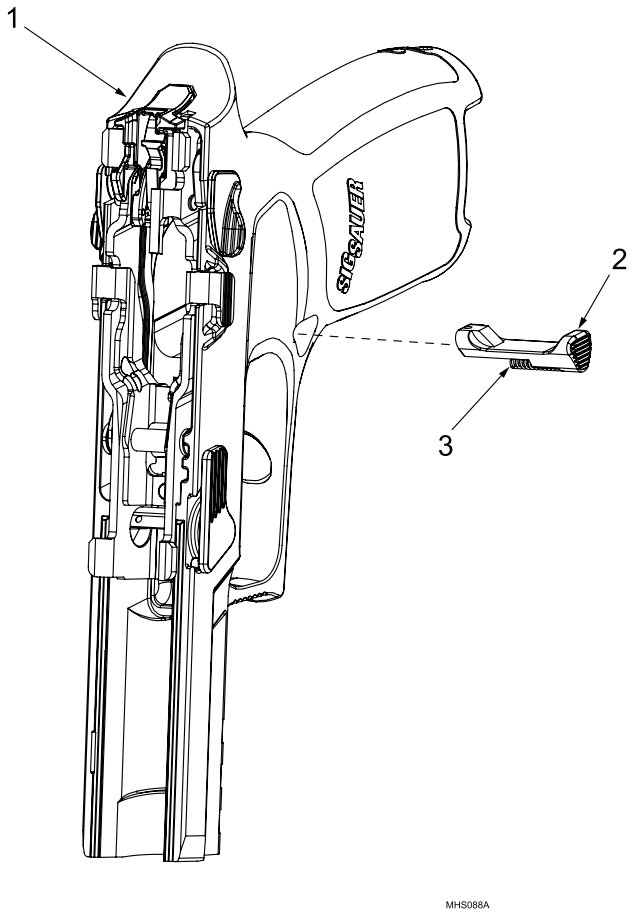

Figure 46. Magazine Catch Installation.

7. Insert magazine catch stop (Figure 47, Item 1) in magazine catch (Figure 47, Item 2). The ends will be flush and an audible click will be heard when it snaps into place.

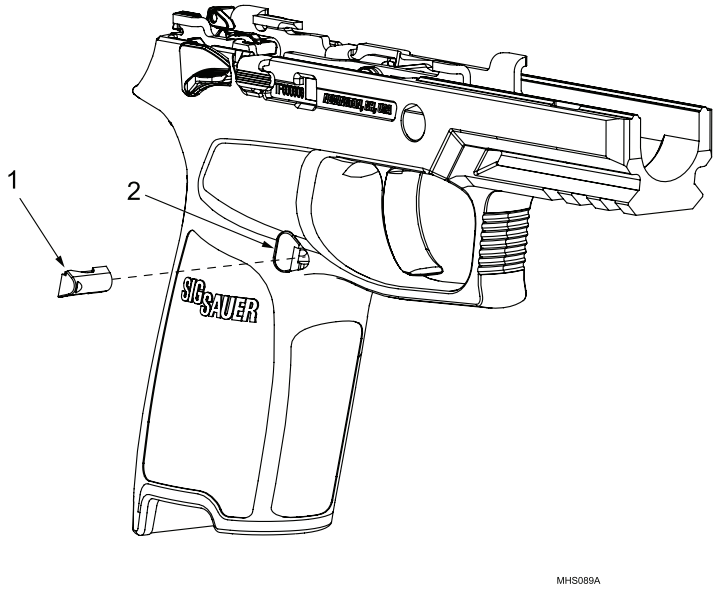

Figure 47. Magazine Catch Stop Installation.

8. Check operation of magazine catch with an empty magazine.

END OF TASK

FOLLOW-ON MAINTENANCE

Install slide (WP 0009).

END OF WORK PACKAGE

MAINTAINER 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

MAINTAINER MAINTENANCE

PREPARATION FOR SHIPMENT

INITIAL SETUP:

References

AR 190-11
DoD 4500.9-R
DoD 5100.76-M
DOT 49 CFR
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.

The transportation of the radioactive MHS (M17/M18) sights must be made in accordance with Department of Transportation (DOT) 49 Code of Federal Regulations (CFR), Part 173.424. Contact the Radiation Safety Officer (RSO) and Transportation Officer to coordinate the shipment of these devices. The following DOT proper shipping name must appear on all shipping documents: UN2911, Radioactive Material, Excepted Package, Instruments or Articles. The RSO must have current radioactive material transportation training and will prepare a Radioactive Material Movement Form (RMMF). Send a copy of the RMMF with the shipment. The person preparing the shipment MUST be certified in shipping radioactive material in accordance with 49 CFR Transportation, Part 172, Subpart H-Training. The certifier of the shipment must be appointed and trained IAW DOD 4500.9-R, Chapter 204.

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

END OF WORK PACKAGE

MAINTAINER MAINTENANCE

TRANSPORTABILITY

INITIAL SETUP:

NOT APPLICABLE

There are no requirements related to transport of MHS.

END OF WORK PACKAGE

CHAPTER 5

PARTS INFORMATION

FOR

MODULAR HANDGUN SYSTEM (MHS)

MAINTAINER MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL) INTRODUCTION

SCOPE

This RPSTL lists the authorized spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of Maintainer maintenance of the MHS. 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

In addition to the Introduction work package, this RPSTL is divided into the following work packages.

1. Repair Parts List Work Packages. Work packages containing lists of spare and repair parts authorized for use in the performance of maintenance at the levels determined by the MAC/SMR code. 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. Items listed are shown on the associated illustrations.
2. Special Tools List Work Packages. This work package lists those 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 refers you to the Figure and item number for each NSN listed in the RPSTL. The Part Number Index work package refers you to the figure and item number for each part number listed in the RPSTL.

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 in accordance with AR 700-82, as shown in the following breakout. This entry may be subdivided into 4 subentries, one for each service.

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.
NOTE 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 you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow:

Table 2. Source Code Explanation.

Source Code	Application/Explanation
PA PB PC PD PE PF PG PH PR PZ	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 third position of the SMR code. **NOTE** Items coded PC are subject to deterioration. Items coded PR or PZ are obsolete and may not be able to be ordered like other P coded items.
KD KF KB	Items with these codes are not to be requested/ requisitioned individually. They are part of a kit that is authorized to the maintenance level indicated in the third position of the SMR code. The complete kit must be requisitioned and applied.
MF-Made at maintainer class MH-Made at below depot sustainment class ML-Made at SRA MD-Made at depot MG-Navy only	Items with these codes are not to be requisitioned/ requested individually. They must be made from bulk material which is identified by the P/N in the DESCRIPTION AND USABLE ON CODE (UOC) entry and listed in the bulk material group work package of the RPSTL. If the item is authorized to you by the third position code of the SMR code, but the source code indicates it is made at higher level, order the item from the higher level of maintenance.
AF-Assembled by maintainer class AH-Assembled by below depot sustainment class AL-Assembled by SRA AD-Assembled by depot AG - Navy only	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 below.)
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 an XD-coded item through local purchase or 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 fourth positions of the SMR code as follows:

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

Table 3. Maintenance Code Explanation.

Maintenance Code	Application/Explanation
C	Crew
F	Maintainer maintenance can remove, replace, and use the item.
H	Below Depot Sustainment maintenance can remove, replace, and use the item.
L	Specialized repair activity can remove, replace, and use the item.
G	Afloat and ashore intermediate maintenance can remove, replace, and use the item. (Navy only)
K	Contractor facility can remove, replace, and use the item.
Z	Item is not authorized to be removed, replace, or used at any maintenance level.
D	Depot can remove, replace, and use the item.
NOTE Army will use C in the third position. However, for joint service publications, other services may use O.	

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 class with the capability to do complete repair (perform all authorized repair functions).

Table 4. Maintenance Code Explanation.

Maintenance Code	Application/Explanation
C	Crew (operator) is the lowest class that can do complete repair.
F	Maintainer is the lowest class that can do complete repair of the item.
H	Below Depot Sustainment is the lowest class that can do complete repair of the item.
L	Specialized repair activity is the lowest class that can do complete repair of the item.
D	Depot is the lowest class that can do complete repair of the item.
G	Both afloat and ashore intermediate levels are capable of complete repair of item. (Navy only)
K	Complete repair is done at contractor facility.
Z	Nonreparable. 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:

Table 5. Recoverability Code Explanation.

Recoverability Code	Application/Explanation
C	Reparable item. When uneconomically reparable, condemn and dispose of the item at the crew/operator level.
Z	Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code.
F	Reparable item. When uneconomically reparable, condemn and dispose of the item at the field level.
H	Reparable item. When uneconomically reparable, condemn and dispose of the item at the below depot sustainment.
D	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item are not authorized below depot.
L	Reparable item. Condemnation and disposal not authorized below Specialized Repair Activity (SRA).
A	Item requires special handling or condemnation procedures because of specific reasons (such as precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.
G	Field level reparable item. Condemn and dispose at either afloat or ashore intermediate levels. (Navy only)
K	Reparable item. Condemnation and disposal to be performed at contractor facility.

NSN (Column (3)). The NSN(s) 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 manufacturer, 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 part number 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 any bulk materials required if the item is to be locally manufactured or fabricated.
3. Hardness Critical Item (HCI). Items that require special handling or procedures to ensure protection against electromagnetic pulse (EMP) damage are marked with the letters ‘HCI.’
4. Refer to Usable on Code details presented later in this work package under SPECIAL INFORMATION.
5. Dot indentions indicate the relationship of the part (or parts) to its next higher assembly (NHA) in the tabular listing. The NHA for this part (or parts) is listed right before the part (or parts) that it is the NHA for. If the item is connected directly to (can be disassembled from) the item identified in the functional group code title for that specific tabular listing, it shall have one dot indentation. Otherwise, that item in the tabular list will not have a dot indention.
6. The statement END OF FIGURE appears below the last item description in column (6) for each Figure in the repair parts list, special tools repair parts, kits, bulk items, 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. 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. NSNs in this index are listed in National Item Identification Number (NIIN) sequence.

   STOCK NUMBER Column. This column lists the NSN in NIIN sequence. The NIIN consists of the last nine digits of the NSN. 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.

   For example, if the NSN is 5385-01-574-1476, the NIIN is 01-574-1476.

   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. This column 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. Part numbers which are all numbers are listed first in ascending numeric sequence. Part numbers containing letters and numbers are listed in ascending alphanumeric sequence by part number after all the part numbers containing numbers only.

   PART NUMBER Column. This column indicates the part number 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. Examples of the UOCs used in the RPSTL are:

Table 6. Usable on Code.

Code	Used On
MHF	M17
MHC	M18
MHG	GO Pistol

HOW TO LOCATE REPAIR PARTS

1. When NSNs or Part Numbers 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 subassembly 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 for which you are looking.

3. When Part Number Is Known.

   First. If you have the part number and not the NSN, look in the PART NUMBER column of the part number 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

MAINTAINER MAINTENANCE

REPAIR PARTS LIST

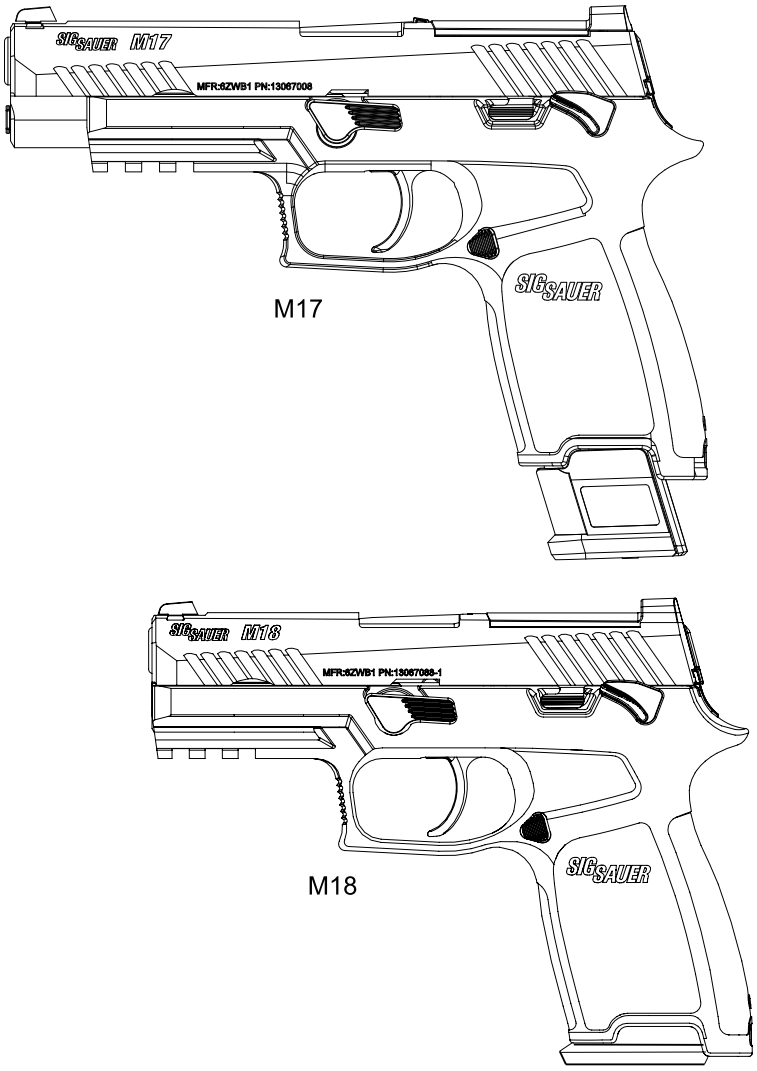

Figure 1. Modular Handgun System, M17/M18.

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 3400 Modular Handgun System, M17/M18 FIGURE 1 Modular Handgun System, M17/M18	
	XAFFF		19200	13067005	M17 ..... PISTOL, 9MM, SEMIAUTOMATIC UOC: MHF	1
	XAFFF		19200	13067085	M18 ..... PISTOL, 9MM, SEMIAUTOMATIC UOC: MHC	1
	XAFFF		19200	13067006	GO ..... PISTOL, 9MM, SEMIAUTOMATIC, GO UOC: MHG END OF FIGURE	1

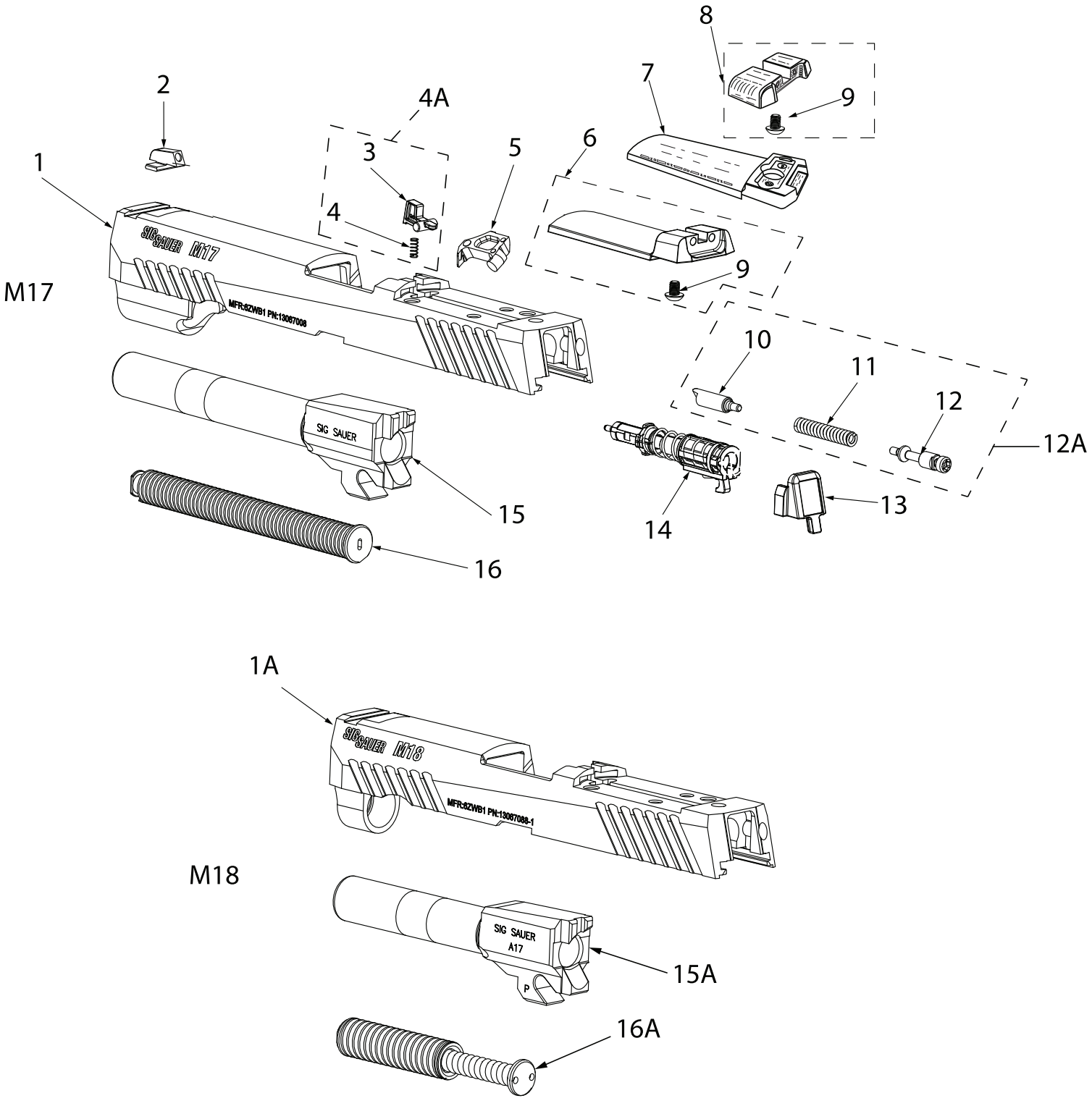

Figure 2. Slide Assembly, M17/M18.

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 3401 Slide Assembly FIGURE 2 Slide Assembly, M17/M18	
1	PAFZZ	1005-01-665-0481	19200	13067008-1	SLIDE, PISTOL ..... *UPGRADED CONFIGURATION ONLY	1
1A	PAFZZ	1005-01-665-0488	19200	13067088-1	UOC: MHF SLIDE, PISTOL ..... *UPGRADED CONFIGURATION ONLY	1
2	PAFZA	1005-01-664-9388	19200	13067015-1	UOC: MHC, MHG SIGHT, FRONT	1
3	XAFZZ		19200	13067021	UOC: MHC, MHF, MHG FLAG, LOADED CHAMBER INDICATOR	1
4	PAFZZ	1005-01-664-9733	19200	13067022	UOC: MHC, MHF, MHG SPRING, LOADED CHAMBER INDICATOR	1
4A	PAFZZ	1005-01-664-9753	19200	13067102	UOC: MHC, MHF, MHG CHAMBER, LOADED INDICATOR ASSEMBLY	1
5	PAFZZ	1005-01-665-0029	19200	13067023	UOC: MHC, MHF, MHG EXTRACTOR, CARTRIDGE	1
6	PAFZA	1005-01-664-9377	19200	13067082	UOC: MHC, MHF, MHG REAR, SIGHT, PLATE ASSEMBLY.....	1
7	PAFZZ	1005-01-675-9539	19200	13067018	UOC: MHC, MHF, MHG MOUNT, SIGHT, SMALL ARMS.....	1
8	PAFZA	1005-01-675-9500	19200	13076199	UOC: MHC, MHF, MHG SIGHT, REAR.....	1
9	PAFZZ	1005-01-665-4524	19200	13067025	UOC: MHC, MHF, MHG SCREW, REAR SIGHT PLATE	1
10	XAFZZ		19200	13067024	UOC: MHC, MHF, MHG PIN, EXTRACTOR	1
11	XAFZZ		19200	13067026	UOC: MHC, MHF, MHG SPRING, EXTRACTOR	1
12	XAFZZ		19200	13067035-1	UOC: MHC, MHF, MHG PIN, EXTRACTOR TENSION	1
12A	PAFFF	1005-01-665-0712	19200	13067101	UOC: MHC, MHF, MHG PIN ASSEMBLY, EXTRACTOR.....	1
13	PAFZZ	1005-01-665-0682	19200	13067036-1	UOC: MHC, MHF, MHG CAP, SLIDE	1
14	PAFZZ	1005-01-665-3082	19200	13067027	UOC: MHC, MHF, MHG STRIKER ASSEMBLY..... *UPGRADED CONFIGURATION ONLY	1
15	PAFZZ	1005-01-665-0053	19200	13067009	UOC: MHC, MHF, MHG BARREL, PISTOL	1
15A	PAFZZ	1005-01-665-0412	19200	13067089	UOC: MHF BARREL, PISTOL ..... UOC: MHC, MHG	1

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
16	PAFZZ	1005-01-665-4512	19200	13067010	RECOIL ASSEMBLY ..... UOC: MHF	1
16A	PAFZZ	1005-01-665-0045	19200	13067090	RECOIL ASSEMBLY ..... UOC: MHC, MHG	1
					END OF FIGURE	

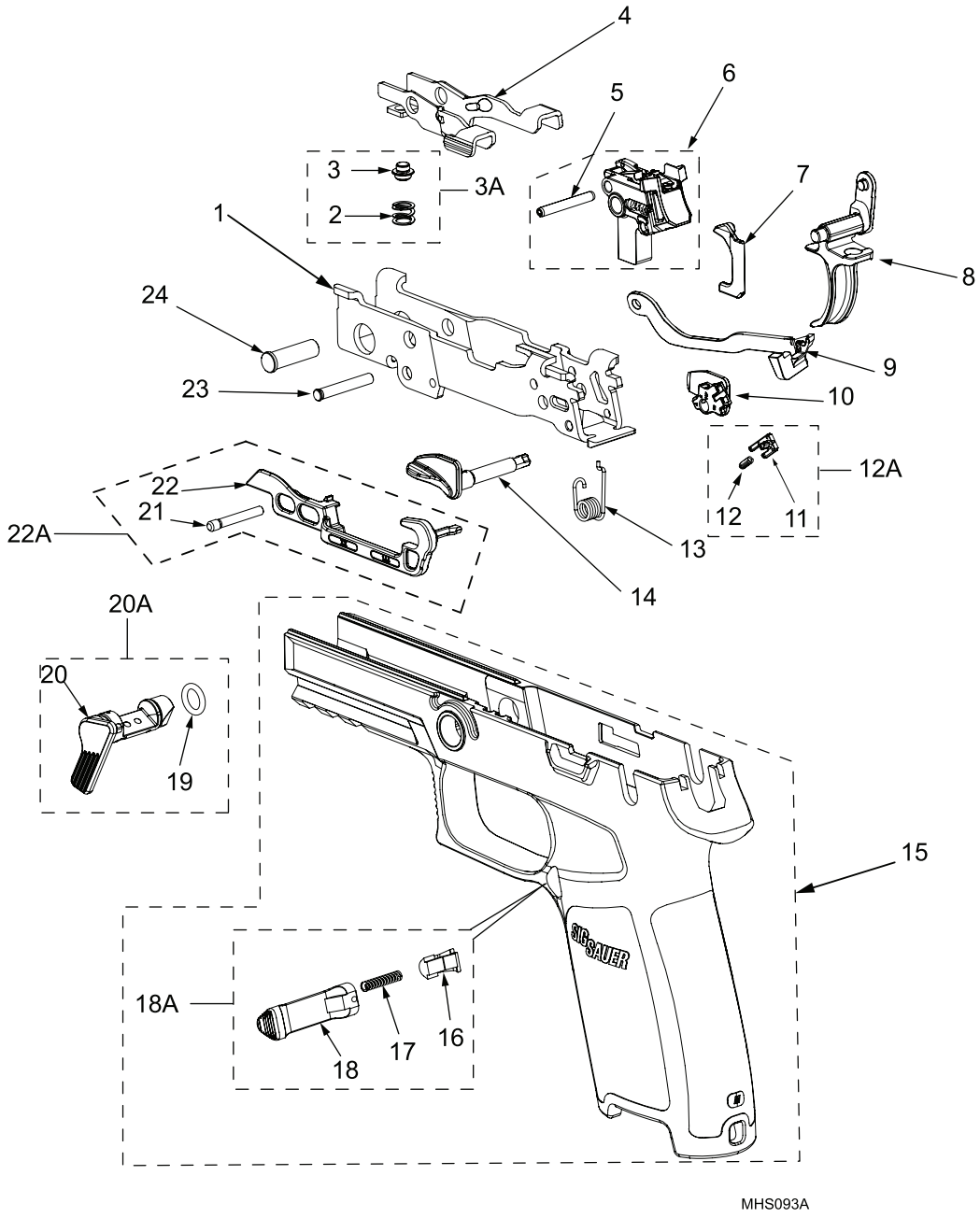

Figure 3. Receiver/Grip Module Assembly.

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 3402 Receiver/Grip Module Assembly FIGURE 3 Receiver/Grip Module Assembly	
1	XAFZA		19200	13067012-1	RECEIVER, M17	1
					UOC: MHF	
1	XAFZA		19200	13067012-4	RECEIVER, GO	1
					UOC: MHG	
1	XAFZA		19200	13067012-3	RECEIVER, M18	1
					UOC: MHC	
2	XAFZZ		19200	13067056	SPRING, SLIDE CATCH LEVER	1
					UOC: MHC, MHF, MHG	
3	XAFZZ		19200	13067057	POST, SLIDE CATCH LEVER.....	1
					UOC: MHC, MHF, MHG	
3A	PAFZZ	1005-01-665-4346	19200	13067098	POST, SPRING ASSEMBLY, SLIDE CATCH	1
					UOC: MHC, MHF, MHG	
4	PAFZZ	1005-01-664-9790	19200	13067046	STOP, SLIDE.....	1
					UOC: MHC, MHF, MHG	
5	PAFZZ	1005-01-665-4529	19200	13067060	PIN, COILED SPRING	1
					UOC: MHC, MHF, MHG	
6	PAFZZ	1005-01-665-4501	19200	13067097	SEAR ASSEMBLY ..... *UPGRADED CONFIGURATION ONLY	1
					UOC: MHC, MHF, MHG	
7	PAFZZ	1005-01-673-0134	19200	13074793	DISCONNECTOR ..... *UPGRADED CONFIGURATION ONLY	1
					UOC: MHC, MHF, MHG	
8	PAFZZ	1005-01-665-0705	19200	13067053-1	TRIGGER	1
					UOC: MHC, MHF, MHG	
9	PAFZZ	1005-01-665-0494	19200	13067051	BAR, TRIGGER.....	1
					UOC: MHC, MHF, MHG	
10	PAFZZ	1005-01-665-3070	19200	13067047-1	LEVER, MANUAL SAFETY, RIGHT	1
					UOC: MHC, MHF, MHG	
11	XAFZZ		19200	13067049	DETENT, MANUAL SAFETY	1
					UOC: MHC, MHF, MHG	
12	XAFZZ		19200	13067048	SPRING, MANUAL SAFETY DETENT ...	1
					UOC: MHC, MHF, MHG	
12A	XAFZZ	1005-01-665-4293	19200	13067099	DETENT, SPRING ASSEMBLY	1
					UOC: MHC, MHF, MHG	
13	PAFZZ	1005-01-665-4152	19200	13067052	SPRING, HELICAL EXTENSION.....	1
					UOC: MHC, MHF, MHG	
14	PAFZZ	1005-01-665-4492	19200	13067054-1	LEVER, MANUAL SAFETY, LEFT	1
					UOC: MHC, MHF, MHG	
15	PACFF	1005-01-664-9759	19200	13067061-2	GRIP, PISTOL, MEDIUM.....	1
					UOC: MHC, MHF, MHG	

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
15	PACFF	1005-01-664-8060	19200	13067061-1	GRIP, PISTOL, SMALL..... UOC: MHC, MHF, MHG	1
15	PACFF	1005-01-665-3060	19200	13067061-3	GRIP, PISTOL, LARGE ..... UOC: MHC, MHF, MHG	1
16	XAFZZ		19200	13067067-1	STOP, MAGAZINE ..... UOC: MHC, MHF, MHG	1
17	XAFZZ		19200	13067068	SPRING, MAGAZINE CATCH..... UOC: MHC, MHF, MHG	1
18	XAFZZ		19200	13067069-1	CATCH, MAGAZINE ..... UOC: MHC, MHF, MHG	1
18A	PAFZZ	1005-01-664-9647	19200	13067063	ASSEMBLY, CATCH, MAGAZINE..... UOC: MHC, MHF, MHG	1
19	PCFZZ	1005-01-665-4235	19200	13067071	O-RING, LEVER..... UOC: MHC, MHF, MHG	1
20	XAFZZ		19200	13067070-1	LEVER, TAKEDOWN ..... UOC: MHC, MHF, MHG	1
20A	PAFFF	1005-01-665-4550	19200	13067100	LEVER ASSEMBLY ..... UOC: MHC, MHF, MHG	1
21	XAFZZ		19200	13067059	PIN, TRIGGER STOP ..... UOC: MHC, MHF, MHG	1
22	XAFZZ		19200	13067058	LEVER, TAKEDOWN SAFETY ..... UOC: MHC, MHF, MHG	1
22A	PAFZZ	1005-01-665-4110	19200	13067096	LEVER ASSEMBLY, TAKEDOWN SAFETY (SAFETY, SMALL ARMS) ..... *UPGRADED CONFIGURATION ONLY UOC: MHC, MHF, MHG	1
23	PAFZZ	1005-01-665-3095	19200	13067050	PIN, SEAR..... UOC: MHC, MHF, MHG	1
24	PAFZZ	1005-01-665-0719	19200	13067055	PIN, SLIDE CATCH LEVER ..... UOC: MHC, MHF, MHG END OF FIGURE	

MAINTAINER MAINTENANCE

SPECIAL TOOLS LIST

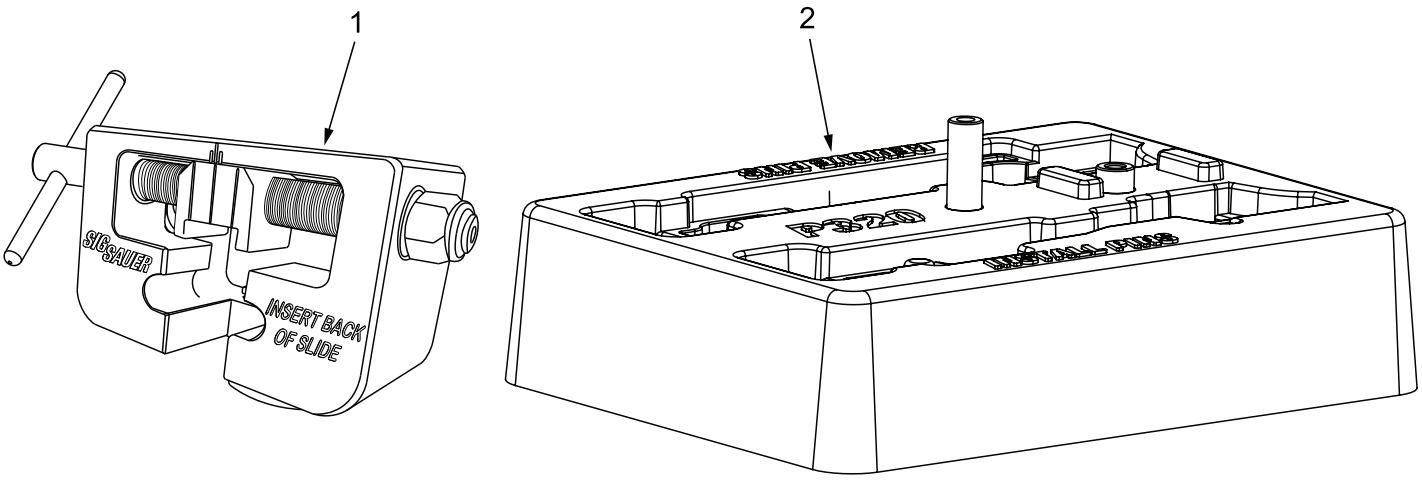

Figure 4. Special Tools.

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP SPECIAL TOOLS FIGURE 4 Special Tools	
1	PAFZZ	1005-01-665-0463	19200	13067072	PUSHER, SIGHT TOOL.....	1
2	PAFZZ	1005-01-665-4335	19200	13068911	BENCH BLOCK, ARMORER	1
					END OF FIGURE	

MAINTAINER MAINTENANCE

NATIONAL STOCK NUMBER (NSN) INDEX

STOCK NUMBER	FIG.	ITEM
1005-01-664-8060	3	15
1005-01-664-9377	2	6
1005-01-664-9388	2	2
1005-01-664-9647	3	18A
1005-01-664-9733	2	4
1005-01-664-9753	2	4A
1005-01-664-9759	3	15
1005-01-664-9790	3	4
1005-01-665-0029	2	5
1005-01-665-0045	2	16A
1005-01-665-0053	2	15
1005-01-665-0412	2	15A
1005-01-665-0463	4	1
1005-01-665-0481	2	1
1005-01-665-0488	2	1A
1005-01-665-0494	3	9
1005-01-665-0682	2	13
1005-01-665-0705	3	8
1005-01-665-0712	2	12A
1005-01-665-0719	3	24

STOCK NUMBER	FIG.	ITEM
1005-01-665-3060	3	15
1005-01-665-3070	3	10
1005-01-665-3082	2	14
1005-01-665-3095	3	23
1005-01-665-4110	3	22A
1005-01-665-4152	3	13
1005-01-665-4235	3	19
1005-01-665-4293	3	12A
1005-01-665-4335	4	2
1005-01-665-4346	3	3A
1005-01-665-4492	3	14
1005-01-665-4501	3	6
1005-01-665-4512	2	16
1005-01-665-4524	2	9
1005-01-665-4529	3	5
1005-01-665-4550	3	20A
1005-01-673-0134	3	7
1005-01-675-9500	2	8
1005-01-675-9539	2	7

END OF WORK PACKAGE

MAINTAINER MAINTENANCE

PART NUMBER INDEX

PART NUMBER	FIG.	ITEM
13067005	1	1
13067006	1	1
13067009	2	15
13067010	2	16
13067018	2	7
13067021	2	3
13067022	2	4
13067023	2	5
13067024	2	10
13067025	2	9
13067026	2	11
13067027	2	14
13067046	3	4
13067048	3	12
13067049	3	11
13067050	3	23
13067051	3	9
13067052	3	13
13067055	3	24
13067056	3	2
13067057	3	3
13067058	3	22
13067059	3	21
13067060	3	5
13067063	3	18A
13067068	3	17
13067071	3	19
13067072	4	1
13067082	2	6
13067085	1	1

PART NUMBER	FIG.	ITEM
13067089	2	15A
13067090	2	16A
13067096	3	22A
13067097	3	6
13067098	3	3A
13067099	3	12A
13067100	3	20A
13067101	2	12A
13067102	2	4A
13068911	4	2
13074793	3	7
13076199	2	8
13067008-1	2	1
13067012-1	3	1
13067012-3	3	1
13067012-4	3	1
13067015-1	2	2
13067035-1	2	12
13067036-1	2	13
13067047-1	3	10
13067053-1	3	8
13067054-1	3	14
13067061-1	3	15
13067061-2	3	15
13067061-3	3	15
13067067-1	3	16
13067069-1	3	18
13067070-1	3	20
13067088-1	2	1A
13067061-2	3	15

END OF WORK PACKAGE

CHAPTER 6

SUPPORTING INFORMATION

FOR

MODULAR HANDGUN SYSTEM (MHS)

MAINTAINER 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)
NAVMC 10772	Recommended Changes to Technical Publications
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
TM 4700-15/1	Ground Equipment Record Procedures
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
AR 700-82	Joint Regulation Governing the Use and Application of Uniform Source, Maintenance, and Recoverability Codes
AR 750-1	Army Materiel Maintenance Policy
DA PAM 738-751	Functional Users Manual for The Army Maintenance Management System-Aviation
DA PAM 750-8	The Army Maintenance Management System (TAMMS) Users Manual
DoD 4500.9-R	Defense Transportation Regulation
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
DOT 49 CFR	Title 49 of Department of Transportation Code of Federal Regulations
NTRP 4-02.1	First Aid
SPI 00-317-2468	Specialized Packaging Instruction
TC 4-02.1	First Aid
TM 9-1005-470-10	Operator Manual for Modular Handgun System (MHS)
UM 4000-125	Global Combat Support Systems-Marine Corps (GCSS-MC)

END OF WORK PACKAGE

MAINTAINER MAINTENANCE

MAINTENANCE ALLOCATION CHART (MAC) INTRODUCTION

THE ARMY MAINTENANCE SYSTEM MAC

This introduction provides a general explanation of the maintenance levels/classes, functions, and other information contained in the MAC.

The MAC (immediately following this introduction) designates overall authority and responsibility for the performance of all maintenance tasks on the identified end item or component. The application of the maintenance tasks to the end item or component shall be consistent with the capacities and capabilities of the designated maintenance levels/classes which are shown in the MAC in column (4). Column (4) is divided into two secondary columns. These columns indicate the maintenance levels/classes of 'Field' and 'Sustainment'. Each maintenance level column is further divided into two sub-columns. These sub-columns identify the maintenance classes and are as follows:

1. Field level maintenance classes:
    a. Crew (operator) maintenance. This is the responsibility of a using organization to perform maintenance on its assigned equipment. It normally consists of inspecting, servicing, lubricating, adjusting, and replacing parts, minor assemblies, and subassemblies. Items with a "C" ("O" for joint service reporting) in the third position of the Source, Maintenance, and Recoverability (SMR) code may be replaced at the crew (operator) class. A code of "C" ("O" for joint service) in the fourth position of the SMR code indicates complete repair is authorized at the crew (operator) class.
    b. Maintainer maintenance. This is maintenance accomplished on a component, accessory, assembly, subassembly, plug-in unit, or other portion by field level units. This maintenance is performed either on the system or after it is removed. An "F" in the third position of the SMR code indicates replacement of assemblies, subassemblies, or other components is authorized at this level. An "F" in the fourth position of the SMR code indicates complete repair of the identified item is allowed at the Maintainer class. Items repaired at this level are normally returned to the user after maintenance is performed.
2. Sustainment level maintenance classes:
    a. Below depot sustainment. This is maintenance accomplished on a component, accessory, assembly, subassembly, plug-in unit, or other portion either on the system or after it is removed. The item subject to maintenance has normally been forwarded to a maintenance facility away from the field level supporting units. An "H" in the third position of the SMR code indicates replacement of assemblies, subassemblies, or other components is authorized at this class. An "H" appearing in the fourth position of the SMR code indicates complete repair is possible at this class. Items are normally returned to the supply system after maintenance is performed at this class.
    b. Depot. This is maintenance accomplished on a component, accessory, assembly, subassembly, plug-in unit, or other portion either on the system or after it is removed. Assets to be repaired at this class are normally returned to an Army Depot or authorized contractor facility. The replace function for this class of maintenance is indicated by the letter "D" or "K" appearing in the third position of the SMR code. A "D" or "K" appearing in the fourth position of the SMR code indicates complete repair is possible at the depot sustainment maintenance level. Items are returned to the supply system after maintenance is performed at this class.

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

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

Maintenance Functions (Tasks)

Maintenance functions are limited to and defined as follows:

1. Inspect. Step-by-step instructions 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).

2. Replace. Step-by-step instructions for taking off an unserviceable component and putting a serviceable component in its place. The replace task is authorized by the LPD/MAC and the assigned maintenance level is shown as the third position code of the SMR code.
3. Repair. Step-by-step instructions for restoring an item or software to a completely serviceable or fully mission capable status. The repair task is authorized by the LPD/MAC and the assigned maintenance level is shown as the fourth position code of the SMR code. The following definitions are applicable to the “repair” maintenance task: welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.

Explanation Of Columns In The MAC

Column (1) Group Number. Column (1) lists Functional Group Code (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). (For a detailed explanation of these functions, refer to maintenance functions (tasks) outlined previously.)

Column (4) Maintenance Level. Column (4) specifies each level/class of maintenance authorized to perform each function listed in column (3), by indicating man-hours required in the appropriate sub-column. The man-hour figure is the task time multiplied by the number of maintainers required to perform that maintenance task. This time includes preparation (equipment conditions, inspections), task performance, follow-on maintenance and quality assurance (inspections) time. Crew maintenance time will be entered as task (clock) time only. If different maintenance classes perform the same maintenance functions due to the number or complexity of the tasks, appropriate manhour figures are to be shown for each class. The symbol designations for the various maintenance levels and classes are as follows:

Field:
C - Crew maintenance
F - Maintainer maintenance
Sustainment:
H - Below Depot maintenance
D - Depot maintenance

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.

Column (6) Remarks Code. When applicable, this column contains a letter code, in alphabetic order, which is keyed to the remarks table entries.

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 column (6) of the MAC.

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

END OF WORK PACKAGE

MAINTAINER MAINTENANCE

MAINTENANCE ALLOCATION CHART (MAC)

Table 1. MAC.

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL				(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT			
			CREW (C)	MAINTAINER (F)	BELOW DEPOT (H)	DEPOT (D)		
3400	MHS	Inspect	0.2	0.2				
3401	Slide Assembly	Inspect	0.1	0.1				
		Repair		0.2			1, 2, 4	
3402	Receiver/Grip Module Assembly	Inspect	0.1	0.1				
		Repair		0.5			1, 3	
340201	Grip Module Assembly	Replace	0.1					

Table 2. Tool and Test Equipment Requirements for MHS.

TOOLS OR TEST EQUIPMENT REF CODE	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER
1	F	Small Arms Tool Kit	5180-01-670-9469	
2	F	Armament Repair Shop Set (ARSS)	4940-01-619-0916	
3	F	Armorer Bench Block	1005-01-665-4335	
4	F	Sight Pusher Tool	1005-01-665-0463	

END OF WORK PACKAGE

MAINTAINER MAINTENANCE

EXPENDABLE AND DURABLE ITEMS

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

MAINTAINER MAINTENANCE

TOOL IDENTIFICATION LIST

TOOL IDENTIFICATION LIST INTRODUCTION

Scope

This work package lists all common and special tools, supplements, fixtures needed to maintain the MHS.

Explanation Of Columns In The Tool Identification List

Column (1) Item No. This number is assigned to the entry in the list and is referenced in the initial setup to identify the item (e.g., Extractor (WP 0090, item 32)).

Column (2) Item Name. This column lists the item by noun nomenclature and other descriptive features (e.g., Gauge, belt tension).

Column (3) National Stock Number (NSN). This is the National Stock Number (NSN) assigned to the item; use it to requisition the item.

Column (4) Part Number/(CAGEC). 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. The manufacturer's Commercial and Government Entity Code (CAGEC) is also included.

Column (5) Reference. This column identifies the authorizing supply catalog, components list, or RPSTL for items listed in this work package.

Table 1. Tool Identification List.

(1) ITEM NO.	(2) ITEM NAME	(3) NATIONAL STOCK NUMBER (NSN)	(4) PART NUMBER/ (CAGEC)	(5) REFERENCE
1	Small Arms Tool Kit	5180-01-670-9469	0631A0000 (59678)	
2	Wrench, Torque, 1/4” Drive, 0-150 in-lb	5120-00-230-6380		ARSS (NSN 4940-01-619-0916)
3	Armorer Bench Block	1005-01-665-4335	13068911 (19200)	
4	Sight Pusher Tool	1005-01-665-0463	13067072 (19200)	

END OF WORK PACKAGE

MAINTAINER MAINTENANCE

MANDATORY REPLACEMENT PARTS

INTRODUCTION

Scope

This work package includes a list of all the mandatory replacement parts referenced in the task initial setups and procedures including those referenced in Preventive Maintenance Checks and Services. These are items that must be replaced during maintenance whether they have failed or not. This includes items based on usage intervals such as miles, time, rounds fired, etc.

Explanation Of Columns In The Mandatory Replacement Parts 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 O-ring (WP 0098, item 5)).

Column (2) Part Number (CAGEC). Identifies the part number and CAGEC of the item to be used for requisitioning purposes.

Column (3) National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (4) Description. This column lists the item by noun nomenclature and other descriptive features (e.g., Gauge, belt tension).

Column (5) Qty. Indicates the quantity required.

Table 1. Mandatory Replacement Parts.

ITEM NO.	PART NUMBER/ (CAGEC)	NATIONAL STOCK NUMBER (NSN)	NOMENCLATURE	QTY
1	13067060 (19200)	1005-01-665-4529	Pin, Coiled Spring	1
2	13067025 (19200)	1005-01-665-4524	Screw, Rear Sight	1

END OF WORK PACKAGE

MAINTAINER MAINTENANCE

CRITICAL SAFETY ITEMS

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.	Use **Part II** (reverse for Repair Parts and Special Tool Lists (RPSTL)).	DATE Date form filled

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TM Number	Date of the TM	Title of the TM

For each comment, include as applicable: *Comment number, work package number or data module code, page number, paragraph number, figure number, table number, recommended change, and reason for change.*

0007-3: Figure 2, Item 9 should show a lock washer. Currently shows a flat washer.

0018-2: Cleaning and inspection, Step 6, reference to governor support pin (14) is wrong reference. Reference should be changed to (12).

TYPED NAME, GRADE/RANK, POSITION TITLE, E-MAIL ADDRESS	TELEPHONE NUMBER/DSN/ EXTENSION	SIGNATURE
Your Name	Your phone number	

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PUBLICATION/FORM NUMBER, CHANGE NUMBER *(If applicable)*	PUBLICATION/ FORM DATE	TITLE
TM 9-1005-470-23&P	30 June 2019	Maintainer Manual for Modular Handgun System (MHS) M17/M18

For each comment, include as applicable: ***Comment number, work package number or data module code, page number, paragraph number, figure number, table number, recommended change, and reason for change.***

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Infantry Weapons (PMM 140)
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PETE B. GILL
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THE METRIC SYSTEM AND EQUIVALENTS

Linear Measure

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

Weights

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

Liquid Measure

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

Square Measure

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

Cubic Measure

1 Cu Centimeter = 1,000 Cu Millimeters = 0.06 Cu Inches
1 Cu Meter = 1,000,000 Cu Centimeters = 35.31 Cu Feet

Temperature

9/5 °C +32 = °F
5/9 (°F - 32) = °C
212° Fahrenheit is equivalent to 100° Celsius
90° Fahrenheit is equivalent to 32.2° Celsius
32° Fahrenheit is equivalent to 0° Celsius

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

PIN 106854-000