

SOLDIER'S MANUAL/ TRAINER'S GUIDE



SMALL ARMS/ARTILLERY
REPAIRER
45B
SKILL LEVEL 1/2



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SOLDIER'S MANUAL and TRAINER'S GUIDE

MOS 45B

SOLDIER'S MANUAL AND TRAINER'S GUIDE, MOS 45B, SMALL ARMS/ARTILLERY REPAIRER, SKILL LEVELS 1/2

Skill Levels 1 and 2

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PREFACE

This soldier training publication (STP) is intended for soldiers holding MOS 45B, Skill Levels 1 and 2, their supervisors, trainers, and commanders. It contains an MOS Training Plan providing information needed to plan, conduct, and evaluate unit training, one of the most important jobs of military leaders. It includes standardized training objectives in the form of task summaries that can be used to train and evaluate soldiers on critical tasks supporting unit missions during wartime.

Soldiers holding MOS 45B should have access to this publication. Trainers and first-line supervisors should actively plan for soldiers' access, making it available in work areas, unit learning centers, and unit libraries. However, it is not intended for an individual copy to be provided to each MOS holder. The STP is obtainable on line from the Reimer Digital Library (RDL) at <http://www.adtdl.army.mil/atdls.htm>.

Tasks in this manual apply to both Active and Reserve Component soldiers.

The proponent of this publication is HQ TRADOC. Submit comments and recommendations on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Department of the Army, Training Directorate, Ordnance Training Division, ATTN: ATCL-AO, 401 First Street, Suite 227, Fort Lee, VA 23801-1511.

Unless this publication states otherwise, masculine nouns and pronouns do not refer exclusively to men.

Chapter 1

INTRODUCTION

1-1. General. This soldier training publication (STP) identifies individual MOS training requirements for soldiers holding MOS 45B. Commanders, trainers, and soldiers should use it to plan, conduct, and evaluate individual training in units. The STP is the primary MOS reference for supporting self-development, evaluating MOS proficiency, and training of 45B soldiers. Commanders employ two primary methods to evaluate soldiers' proficiency:

- Commander's evaluation. Commander's evaluations are local tests or assessments of soldiers' performance of MOS-specific and common tasks critical to the unit mission. They may be conducted year-round.
- Common task test (CTT). CTTs are hands-on tests used to evaluate proficiency on common tasks. Alternate written tests are provided if equipment is not available for hands-on testing.

This publication is the soldier's primary reference to prepare for a commander's evaluation of MOS-specific tasks. It contains task summaries for all critical tasks specific to the MOS and skill level (SL). Commanders and trainers will use this soldier's manual/trainer's guide (SM/TG) to plan and conduct training and commander's evaluations.

Chapter 2, Trainer's Guide, contains information needed to plan training requirements for this MOS. The trainer's guide

- Identifies subject areas in which soldiers must be trained.
- Identifies critical tasks for each subject area.
- Specifies where soldiers are initially trained on each task.
- Recommends how often each task should be trained to sustain proficiency.
- Recommends a strategy for cross-training soldiers.
- Recommends a strategy for training soldiers to perform higher-level tasks.

Use this STP along with STP 21-1-SMCT (Soldier's Manual of Common Tasks, Skill Level 1), STP 21-24-SMCT (Soldier's Manual of Common Tasks, Skill Levels 2-4), Army training and evaluation programs (ARTEPs), FM 25-4 (How to Conduct Training Exercises), FM 25-5 (Training for Mobilization and War), FM 25-100 (Training the Force), and FM 25-101 (Battle-Focused Training) to establish effective training plans and programs that integrate soldier, leader, and collective tasks.

1-2. Task Summaries. Task summaries outline wartime performance requirements for each critical task in the STP. They provide both soldier and trainer with the information necessary to prepare, conduct, and evaluate critical task training. As a minimum, task summaries include information soldiers must know and skills they must perform to standard for each task. Following is the task summary format:

- Task number. The task number is a 10-digit number that identifies the task and skill level. Include the task number and title in any correspondence relating to the task.
- Task title. The task title identifies the action to be performed.
- Conditions. The task conditions statement describes the field or garrison conditions under which

the task will be performed and identifies the equipment, tools, references, job aids, and supporting personnel that the soldier needs to perform the task in wartime.

- **Standards.** The task standards describe how well and to what level of proficiency the soldier must perform the task under wartime conditions. Standards are typically expressed in terms of accuracy, completeness, duration, sequence, speed, and tolerance.
- **Performance measures.** This section identifies specific actions that the soldier must accomplish to complete the task successfully. Performance measures appear in a GO/NO-GO rating format for easy evaluation. Some tasks may also include detailed training information in a Training Information Outline and an Evaluation Preparation Section. The Evaluation Preparation Section indicates necessary modifications to task performance in order to train and evaluate a task that can not be trained to the wartime standard under wartime conditions. It may also include special training and evaluation preparation instructions to accommodate these modifications and any instructions that should be given to the soldier before evaluation.
- **References.** This section identifies references that provide more detailed explanations of task performance requirements than are given in the task summary.
- **Warnings.** Warnings alert users to the possibility of immediate personal injury or equipment damage.
- **Notes.** Notes provide additional supportive explanations or tips relating to task performance.

1-3. **Soldier's Responsibilities.** Each soldier is responsible for performing individual tasks identified by the first-line supervisor based on the unit's mission-essential task list (METL). Soldiers must perform tasks to the standards included in the task summary. If soldiers have questions about tasks or which tasks in this manual they must perform, they are responsible for asking their first-line supervisor for clarification. First-line supervisors know how to perform each task or can direct soldiers to appropriate training materials, including current field manuals, technical manuals, and Army regulations. Soldiers are responsible for using these materials to maintain performance. They are also responsible for maintaining performance of all common tasks listed in the SMCTs at their current skill level and below.

Periodically, soldiers should ask their supervisor or another soldier to check their performance to ensure that they can perform the tasks.

1-4. **NCO Self-Development and the STP.** Self-development is a key component of leader development. Leaders follow planned, progressive, sequential self-development programs developed by the individual NCO and his or her first-line supervisor to enhance and sustain military competencies. Self-development consists of individual study, research, professional reading, practice, and self-assessment. The self-development concept requires NCOs, as Army professionals, to take responsibility for remaining current in all phases of their MOS. The STP is the NCO's primary source for maintaining MOS proficiency.

Another important resource for self-development is the Army Correspondence Course Program (ACCP). Refer to DA Pamphlet 351-20 (Army Correspondence Course Program Catalog) for detailed eligibility requirements and enrollment information. The catalog is available at local education centers or on line through the Army Institute for Professional Development (AIPD) web site, <http://www.atsc.army.mil/accp/aipd.htm>. The web site offers on-line enrollment.

1-5. **Commander's Responsibilities.** Commanders must ensure that their unit training plans prepare the unit for war by enabling soldiers to develop and sustain proficiency in their MOS and skill level tasks. Commanders should design unit training programs to provide individual training for all soldiers assigned to the unit and to evaluate soldier proficiency routinely as part of the commander's evaluation program. The unit training program should also integrate individual training with crew drills and other collective training. The MOS training plan provides information on which to base integration, cross-train, train-up, and sustainment training programs. Commanders should use the MOS training plan when developing

unit training plans.

1-6. Trainer's Responsibilities. Training is the business of all unit leaders. First-line leaders are the principal trainers in the unit because they directly supervise soldiers and lead crews, squads, sections, and teams.

Trainers can use the MOS training plan to determine the critical tasks each soldier is responsible for. They should tell each soldier which tasks he or she must be able to perform. Trainers should evaluate task performance to determine which tasks each soldier can or cannot perform to standard. Soldiers who cannot perform a task to standard need further training. This STP helps the trainer do what trainers get paid to do train. Developing effective training is explained in detail in FM 25-100 and FM 25-101.

Every task summary in this STP includes performance measures, which trainers may use year-round to determine if soldiers can perform critical tasks to the specified standards. The performance measures identify what the trainer needs to observe to score a soldier's performance. A blank space is provided for the trainer to check either the GO or NO-GO column for each performance measure. Some tasks require the trainer to watch the soldier perform them (evaluate the process). Other tasks call for the trainer to focus on the results of the soldier's performance (evaluate the product). Comments should not be written on the task summary.

Trainers can monitor the progress of their soldiers by recording task go/no-go results. Trainers may use DA Form 5164-R (Hands-On Evaluation) to record the performance measures a soldier passed or failed. The form, which may be locally reproduced, applies to all tasks in this STP. Trainers may have DA Form 5164-R overprinted with information unique to their training requirements before reproducing it. See Appendix A of this STP for a sample DA Form 5164-R with instructions.

- Trainers may use DA Form 5165-R (Field Expedient Squad Book) to record hands-on go/no-go results for a group of soldiers (for example, a crew, section, or squad) having the same MOS and skill level. This form supports conduct of commander's evaluations, and can be used to record training results gathered in the field during slack time for all MOSs and skill levels. Use of this form is optional. See Appendix B for a sample DA Form 5165-R with instructions. Trainers should work with each soldier until tasks can be performed to specific task summary standards.

1-7. Training Support. References have been identified for each task to assist in planning and conducting training. A consolidated list of references identified by type, publication number, and title and a comprehensive glossary of acronyms, abbreviations, and definitions are included in this STP.

CHAPTER 2

Training Guide

2-1. General. The MOS Training Plan (MTP) identifies the essential components of a unit training plan for individual training. Units have different training needs and requirements based on differences in environment, location, equipment, dispersion, and similar factors. Therefore, the MTP should be used as a guide for conducting unit training and not a rigid standard. The MTP consists of two parts. Each part is designed to assist the commander in preparing a unit training plan which satisfies integration, cross training, training up, and sustainment training requirements for soldiers in this MOS.

Part One of the MTP shows the relationship of an MOS skill level between duty position and critical tasks. These critical tasks are grouped by task commonality into subject areas.

Section I lists subject area numbers and titles used throughout the MTP. These subject areas are used to define the training requirements for each duty position within an MOS.

Section II identifies the total training requirement for each duty position within an MOS and provides a recommendation for cross training and train-up/merger training.

- **Duty Position column.** This column lists the duty positions of the MOS, by skill level, which have different training requirements.
- **Subject Area column.** This column lists, by numerical key (see Section I), the subject areas a soldier must be proficient in to perform in that duty position.
- **Cross Train column.** This column lists the recommended duty position for which soldiers should be cross trained.
- **Train-up/Merger column.** This column lists the corresponding duty position for the next higher skill level or MOSC the soldier will merge into on promotion.

Part Two lists, by general subject areas, the critical tasks to be trained in an MOS and the type of training required (resident, integration, or sustainment).

- **Subject Area column.** This column lists the subject area number and title in the same order as Section I, Part One of the MTP.
- **Task Number column.** This column lists the task numbers for all tasks included in the subject area.
- **Title column.** This column lists the task title for each task in the subject area.
- **Training Location column.** This column identifies the training location where the task is first trained to soldier training publications standards. If the task is first trained to standard in the unit, the word "Unit" will be in this column. If the task is first trained to standard in the training base, it will identify, by brevity code (ANCOC, BNCOC, etc.), the resident course where the task was taught. Figure 2-1 contains a list of training locations and their corresponding brevity codes.

AIT	Advanced Individual Training
UNIT	Trained in the Unit

Figure 2-1. Training Locations

- **Sustainment Training Frequency column.** This column indicates the recommended frequency at which the tasks should be trained to ensure soldiers maintain task proficiency. Figure 2-2 identifies the frequency codes used in this column.

BA	- Biannually
AN	- Annually
SA	- Semiannually
QT	- Quarterly
MO	- Monthly
BW	- Biweekly
WK	- Weekly

Figure 2-2. Sustainment Training Frequency Codes

- **Sustainment Training Skill Level column.** This column lists the skill levels of the MOS for which soldiers must receive sustainment training to ensure they maintain proficiency to soldier's manual standards.

2-2. Subject Area Codes.

Skill Level 1

- 1 REVOLVER/PISTOL REPAIR TASKS
- 2 RIFLE/SHOTGUN REPAIR TASKS
- 3 MACHINE GUN/AUTOMATIC CANNON REPAIR TASKS
- 4 MORTAR REPAIR TASKS
- 5 TOWED ARTILLERY REPAIR TASKS
- 6 TMDE, BDAR, AND SERVICES TASKS

2-3. Duty Position Training Requirements.

45B CAREER FIELD DUTY POSITIONS			
Duty Position	Subject Area	Cross Train	Train-up/Merger
Skill Level 1			
Small Arms/Artillery Repairer	1 - 6	NA	45B20/Small Arms/Artillery Repairer
Skill Level 2			
Small Arms/Artillery Repairer	1 - 6	NA	45K30/Armament Repairer Supervisor

2-4. Critical Tasks List.**MOS TRAINING PLAN
45B12****CRITICAL TASKS**

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
Skill Level 1					
1. REVOLVER/PISTOL REPAIR TASKS	091-45B-2024	Correct Malfunctions of Semiautomatic 9 MM Pistol	AIT	AN	1/2
2. RIFLE/SHOTGUN REPAIR TASKS	091-45B-2005	Correct Malfunctions of 5.56 MM M16 Series Rifle	AIT	AN	1/2
3. MACHINE GUN/AUTOMATIC CANNON REPAIR TASKS	091-45B-2009	Correct Malfunctions of 7.62 MM M240 Series Machine Gun	AIT	SA	1/2
	091-45B-2022	Correct Malfunctions of 25 MM M242 Automatic Gun	AIT	AN	1/2
	091-45B-2025	Correct Malfunctions of 5.56 MM M249 Series Machine Gun	AIT	AN	1/2
	091-45B-2026	Correct Malfunctions of .50 Cal M2 Series Machine Gun	AIT	AN	1/2
	091-45B-2027	Correct Malfunctions of 40 MM MK 19 Series Machine Gun	AIT	AN	1/2
4. MORTAR REPAIR TASKS	091-45B-2015	Correct Malfunctions of 81 MM M252 Mortar	UNIT	AN	1/2
	091-45B-2016	Correct Malfunctions of 120 MM M120 Series Mortar	AIT	SA	1/2
5. TOWED ARTILLERY REPAIR TASKS	091-45B-2017	Correct Malfunctions of M119 Series Towed Howitzers	UNIT	AN	1/2
6. TMDE, BDAR, AND SERVICES TASKS	091-45B-2021	Perform Cannon Tube Evaluations	AIT	SA	1/2
	091-45B-2023	Operate Test, Measurement, and Diagnostic Equipment (TMDE)	AIT	AN	1/2

CHAPTER 3

MOS/Skill Level Tasks

Skill Level 1

Subject Area 1: REVOLVER/PISTOL REPAIR TASKS

Correct Malfunctions of Semiautomatic 9 MM Pistol

091-45B-2024

Conditions: In a garrison or field environment, given semiautomatic 9 MM pistol, applicable tools/kits, special/fabricated tools, repair parts, safety equipment, cleaning and lubricating materials, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: The semiautomatic 9 MM pistol must be inspected/tested, repaired and components replaced, if required, IAW the applicable technical publications' procedures and specifications. When task is completed, the semiautomatic 9 MM pistol must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools and equipment to inspect, repair/replace components, and test the semiautomatic 9 MM pistol.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Determine serviceability based on inspection.	—	—
5. Repair/replace the semiautomatic 9 MM pistol components as required.	—	—
6. Perform a final operational test to verify fault(s) have been corrected.	—	—
7. Annotate corrective actions taken on DA Form 5988-E.	—	—
8. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A11
- SC 5180-95-A07
- TM 9-1005-317-10
- TM 9-1005-317-23&P

Related

- DA PAM 738-750
- TM 9-243

Subject Area 2: RIFLE/SHOTGUN REPAIR TASKS

**Correct Malfunctions of 5.56 MM M16 Series Rifle
091-45B-2005**

Conditions: In a garrison or field environment, given M16 series rifle, direct/general support maintenance tools and gauge set for the M16 series rifle, special/fabricated tools, repair parts, safety equipment, cleaning and lubricating materials, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: The M16 series rifle, must be inspected/tested, repaired and components replaced, if required, IAW the applicable technical publications' procedures and specifications. When task is completed, the M16 series rifle must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools and equipment to inspect, repair/replace components, and test the M16 series rifle.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection.	—	—
5. Disassemble the M16 series rifle.	—	—
6. Repair/replace the M16 series rifle components, as required.	—	—
7. Assemble the M16 series rifle.	—	—
8. Perform required PMCS.	—	—
9. Perform a final operational test to verify fault(s) have been corrected.	—	—
10. Annotate corrective actions taken on DA Form 5988-E.	—	—
11. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A11
- SC 5180-95-A07
- TB 9-1000-247-34
- TM 9-1005-301-30
- TM 9-1005-319-10
- TM 9-1005-319-23&P
- FM 23-9

Related

- DA PAM 738-750
- TM 9-243

Subject Area 3: MACHINE GUN/AUTOMATIC CANNON REPAIR TASKS

**Correct Malfunctions of .50 Cal M2 Series Machine Gun
091-45B-2026**

Conditions: In a garrison or field environment, given M2 series machine gun, applicable tools/kits, special/fabricated tools, repair parts, safety equipment, cleaning and lubricating materials, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: The M2 series machine gun must be inspected/tested, repaired, and components replaced, if required, IAW the applicable technical publications' procedures and specifications. When task is completed, the M2 series machine gun must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools and equipment to inspect, repair/replace components, and test the M2 series machine gun.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Determine serviceability based on inspection.	—	—
5. Repair/replace the M2 series machine gun components, as required.	—	—
6. Perform a final operational test to verify fault(s) have been corrected.	—	—
7. Annotate corrective actions taken on DA Form 5988-E.	—	—
8. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- FM 23-65
- SC 4933-95-A11
- SC 5180-95-A07
- TB 9-1000-247-34
- TM 9-1005-213-10
- TM 9-1005-213-23
- TM 9-1005-213-23P

Related

- DA PAM 738-750
- TM 9-243

**Correct Malfunctions of 5.56 MM M249 Series Machine Gun
091-45B-2025**

Conditions: In a garrison or field environment, given M249 series machine gun, applicable tools/kits, special/fabricated tools, repair parts, safety equipment, cleaning and lubricating materials, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: The M249 series machine gun must be inspected/tested, repaired, and components replaced, if required, IAW the applicable technical publications' procedures and specifications. When task is completed, the M249 series machine gun must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools and equipment to inspect, repair/replace components, and test the M249 series machine gun.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Determine serviceability based on inspection.	—	—
5. Repair/replace the M249 series machine gun components as required.	—	—
6. Perform a final operational test to verify fault(s) have been corrected.	—	—
7. Annotate corrective actions taken on DA Form 5988-E.	—	—
8. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- FM 23-14
- SC 4933-95-A11
- SC 5180-95-A07
- TM 9-1005-201-10
- TM 9-1005-201-23&P

Related

- DA PAM 738-750
- TM 9-243

**Correct Malfunctions of 7.62 MM M240 Series Machine Gun
091-45B-2009**

Conditions: In a garrison or field environment, given applicable an M240 series machine gun, applicable tools/kits, special/fabricated tools, repair parts, safety equipment, cleaning and lubricating materials, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: The M240 series machine gun must be inspected/tested, repaired, and components replaced, if required, IAW the applicable technical publications' procedures and specifications. When task is completed, the M240 series machine gun must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools and equipment to inspect, repair/replace components, and test the M240 series machine gun.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection.	—	—
5. Disassemble the M240 series machine gun as required.	—	—
6. Repair/replace the M240 series machine gun components as required.	—	—
7. Assemble the M240 series machine gun components as required.	—	—
8. Perform required PMCS.	—	—
9. Perform a final operational test to verify fault(s) have been corrected.	—	—
10. Annotate corrective actions taken on DA Form 5988-E.	—	—
11. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A11
- SC 5180-95-A07
- TB 9-1000-247-34
- TM 9-1005-313-10
- TM 9-1005-313-23&P

Related

- DA PAM 738-750
- TM 9-243

**Correct Malfunctions of 40 MM MK 19 Series Machine Gun
091-45B-2027**

Conditions: In a garrison or field environment, given MK 19 series machine gun, applicable tools/kits, special/fabricated tools, repair parts, safety equipment, cleaning and lubricating materials, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: The MK 19 series machine gun must be inspected/tested, repaired, and components replaced, if required, IAW the applicable technical publications' procedures and specifications. When task is completed, the MK 19 series machine gun must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools and equipment to inspect, repair/replace components, and test the MK 19 series machine gun.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Determine serviceability base on inspection.	—	—
5. Repair/replace the MK 19 series machine gun components, as required.	—	—
6. Perform a final operational test to verify fault(s) have been corrected.	—	—
7. Annotate corrective actions taken on DA Form 5988-E.	—	—
8. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- EM 0014
- FM 23-27
- SC 4933-95-A11
- SC 5180-95-A07
- TM 9-1010-230-10
- TM 9-1010-230-23&P

Related

- DA PAM 738-750
- TM 9-243

**Correct Malfunctions of 25 MM M242 Automatic Gun
091-45B-2022**

Conditions: In a garrison or field environment, given M242 automatic gun, applicable tools/kits, special/fabricated tools, repair parts, safety equipment, cleaning and lubricating materials, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: The M242 automatic gun must be inspected/tested, repaired, and components replaced, if required, IAW the applicable technical publications' procedures and specifications. When task is completed, the M242 automatic gun must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools and equipment to inspect, repair/replace components, and test the M242 automatic gun.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Determine serviceability based on inspection.	—	—
5. Repair/replace the M242 automatic gun components as required.	—	—
6. Perform a final operational test to verify fault(s) have been corrected.	—	—
7. Annotate corrective actions taken on DA Form 5988-E.	—	—
8. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A11
- SC 5180-95-A07
- TM 9-1005-200-20&P
- TM 9-1005-200-30&P

Related

- DA PAM 738-750
- TM 9-243

Subject Area 4: MORTAR REPAIR TASKS

**Correct Malfunctions of 120 MM M120 Series Mortar
091-45B-2016**

Conditions: In a garrison or field environment, given M120 mortar/mount, applicable tools/kits, special/fabricated tools, repair parts, safety equipment, cleaning and lubricating materials, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: The M120 mortar assembly must be inspected/tested, repaired, and components replaced, if required, IAW the applicable technical publications' procedures and specifications. When task is completed, the M120 mortar assembly must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools and equipment to inspect, repair/replace components, and test the M120 mortar.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection.	—	—
5. Disassemble the M120 mortar.	—	—
6. Repair/replace the M120 mortar components, as required.	—	—
7. Assemble the M120 mortar components, as required.	—	—
8. Perform required PMCS.	—	—
9. Perform a final operational test to verify fault(s) have been corrected.	—	—
10. Annotate corrective actions taken on DA Form 5988-E.	—	—
11. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A11
- SC 5180-95-A07
- TM 9-1015-250-10
- TM 9-1015-250-23&P

Related

- DA PAM 738-750
- TM 9-243

**Correct Malfunctions of 81 MM M252 Mortar
091-45B-2015**

Conditions: In a field or garrison environment, given an 81MM M252 mortar/mount, repair parts, applicable tools/kits, special/fabricated tools, cleaning and lubricating materials, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: The M252 mortar assembly must be inspected/tested, repaired, and components replaced, if required, IAW applicable technical publications' procedures and specifications. When task is completed, the M252 mortar must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools and equipment to inspect, repair/replace components, and test the M252 mortar.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection.	—	—
5. Disassemble the M252 mortar.	—	—
6. Repair the M252 mortar, as required.	—	—
7. Assemble the M252 mortar.	—	—
8. Perform required PMCS.	—	—
9. Perform a final operational test to verify fault(s) have been corrected.	—	—
10. Annotate corrective actions taken on DA Form 5988-E.	—	—
11. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- SC 4933-95-A11
- SC 5180-95-A07
- TM 9-1015-249-10
- TM 9-1015-249-23&P

Related

- DA PAM 738-750
- TM 9-243

Subject Area 5: TOWED ARTILLERY REPAIR TASKS

**Correct Malfunctions of M119 Series Towed Howitzers
091-45B-2017**

Conditions: In a field or garrison environment, given an M119 series towed howitzer, applicable tools/kits, special/fabricated tools, repair parts, safety equipment, cleaning and lubricating materials, additional tools, TMDE, equipment specified in TMs, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: The M119 series towed howitzer must be inspected/tested, repaired, and components replaced, if required, IAW applicable technical publications' procedures and specifications. When the task is completed, the M119 series towed howitzer must be fully mission capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools and equipment to inspect, repair/replace components, and test the M119 series towed howitzer.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform initial inspection.	—	—
5. Disassemble the M119 series towed howitzer.	—	—
6. Repair/replace the M119 series towed howitzer components, as required.	—	—
7. Assemble the M119 series towed howitzer.	—	—
8. Perform required PMCS.	—	—
9. Perform a final operational test to verify fault(s) have been corrected.	—	—
10. Annotate corrective actions taken on DA Form 5988-E.	—	—
11. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- TM 9-1015-252-10
- TM 9-1015-252-20&P
- TM 9-1015-252-13&P
- TM 9-1015-252-34
- TM 9-1015-252-34P
- SC 5180-95-A12
- SC 4933-95-A12

Related

- DA PAM 738-750
- TM 9-243

Subject Area 6: TMDE, BDAR, AND SERVICES TASKS

**Operate Test, Measurement, and Diagnostic Equipment (TMDE)
091-45B-2023**

Conditions: In a garrison or field environment, given an AN/PSM-45A multimeter, AN/PSM-80V2 contact test set, soldier's portable on-system repair tool (SPORT), additional tools, TMDE, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: Perform set-up and test procedures and operate TMDE IAW applicable technical manuals. Perform maintenance on the TMDE and replace or repair its components IAW the applicable technical publications' procedures and specifications. (See Maintenance Allocation Chart for exact procedures authorized for each MOS and level of maintenance.) When task is completed, the TMDE must be fully mission capable, or maintenance actions required to be performed by other than 45B personnel must be identified.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	_____	_____
2. Select and use applicable tools and test equipment.	_____	_____
3. Practice shop safety and maintenance discipline.	_____	_____
4. Set-up, test, and operate the AN/PSM-45 multimeter.	_____	_____
5. Set-up, test, and operate the CTS.	_____	_____
6. Set-up, test, and operate the SPORT.	_____	_____
7. Inspect/test and operate the vernier caliper.	_____	_____
8. Inspect/test and operate the thickness gauge.	_____	_____
9. Set-up, test, and operate the outside micrometer.	_____	_____
10. Set-up, test, and operate the depth micrometer.	_____	_____
11. Inspect and operate the torque wrench.	_____	_____
12. Annotate corrective actions taken on DA Form 5988-E.	_____	_____
13. Maintain TMDE.	_____	_____

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- TM 11-6625-3052-14
- TM 11-6625-3052-24P
- TM 9-6625-2301-12
- TM 9-6625-2299-12&P
- TM 9-6625-2299-30&P

Related

- DA PAM 738-750
- TM 9-243

**Perform Cannon Tube Evaluations
091-45B-2021**

Conditions: In a garrison or field environment, given weapon system (mortar or howitzer) or cannon assembly, borescope kit, pullover gauge kit, precision measuring tools, additional tools, TMDE, applicable equipment, applicable maintenance forms and technical publications, and supervision/assistance.

Standards: The cannon assembly must be evaluated for serviceability IAW the applicable technical publications' procedures and specifications.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable technical publications.	—	—
2. Select and use applicable tools, TMDE, and equipment to perform cannon tube evaluation.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Determine serviceability based on equivalent full charge (EFC) data.	—	—
5. Determine serviceability based on inspection.	—	—
6. Determine serviceability based on borescoping.	—	—
7. Determine serviceability based on pull-over gauging.	—	—
8. Annotate corrective actions taken on DA Form 5988-E.	—	—
9. Maintain tools and equipment.	—	—

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- TM 9-1000-202-14
- TM 9-4933-258-13&P
- TM 9-6650-235-13&P

Related

- DA PAM 738-750
- TM 9-243

APPENDIX A**HANDS-ON EVALUATION (DA FORM 5164-R)
INSTRUCTIONS
(Excerpted from STP 21-24-SMCT, Appendix C)**

DA Form 5164-R (Hands-On Evaluation) allows the trainer to keep a record of the performance measures a soldier passes or fails on each task.

Before evaluation:

1. Obtain a blank copy of DA Form 5164-R, which you may locally reproduce on 8 ½" x 11" paper.
2. Enter the task title and 10-digit number from the STP task summary.
3. In Column a, enter the performance measure numbers from the task summary.
4. In Column b, enter the performance measure corresponding to the number in Column a (you may abbreviate this information if necessary).
5. Locally reproduce the partially completed form when evaluating more than one soldier on the task or when evaluating the same soldier more than once.

During evaluation:

1. Enter the date just before evaluating the soldier's task performance.
2. Enter the evaluator's name, the soldier's name, and the unit.
3. For each performance measure in Column b, enter a check in Column c (PASS) or Column d (FAIL), as appropriate.
4. Compare the number of performance measures the soldier passes (and, if applicable, which ones) against the task standards specified in the task summary. If the standards are met or exceeded, check the GO block under STATUS; otherwise, check the NO-GO block.

APPENDIX B**FIELD EXPEDIENT SQUAD BOOK (DA FORM 5165-R)
INSTRUCTIONS
(Excerpted from STP 21-24-SMCT, Appendix C)**

DA Form 5165-R (Field Expedient Squad Book) allows the trainer to keep a record of task proficiency for a group of soldiers.

Before evaluation:

1. Obtain a blank copy of DA Form 5165-R, which you may locally reproduce on 8 ½" x 11" paper.
2. Locally reproduce the partially completed form if you are evaluating more than nine soldiers.

During evaluation:

1. Enter the names of the soldiers you are evaluating, one name per column, at the top of the form.
2. Under STATUS, record (in pencil) the date in the GO block if the soldier demonstrated task proficiency to soldier's manual standards. Keep this information current by always recording the most recent date on which the soldier demonstrated task proficiency. Record the date in the NO-GO block if the soldier failed to demonstrate task proficiency to soldier's manual standards. Soldiers who failed to perform the task should be retrained and reevaluated until they can meet the standards. When the standards are met, enter the date in the appropriate GO block and erase the previous entry from the NO-GO block.

After evaluation:

1. Read down each column (GO/NO-GO) to determine the training status of an individual. This will give you a quick indication of which tasks a soldier needs training on.
2. Read across the rows for each task to determine the training status of all soldiers. You can readily see which tasks to focus training on.
3. Line through the STATUS column of any soldier who leaves the unit.

GLOSSARY**Section I**
Abbreviations

AIT	advanced individual training
AN	annually
ANCOC	Advanced Noncommissioned Officers Course
app	appendix
BA	biannually
BDAR	battlefield damage assessment and repair
BII	basic issue items
BNCOC	Basic Noncommissioned Officers Course
BW	biweekly
CONT	continued
CTS	contact test set
DA	Department of the Army
EFC	equivalent full charge
IAW	in accordance with
MK	mark
mm	millimeter
MOS	military occupational specialty
MOSC	military occupational specialty code
P	pass
PMCS	preventive maintenance checks and services
PRACT	Practice
PSM	power supply modulator
SA	staging area
SM	soldier's manual
SP	start point

SPORT	soldier's portable on-system repair tool
TM	technical manual
TMDE	test measurement and diagnostic equipment
WK	weekly

REFERENCES

Technical Manuals

TM 9-1000-202-14	Evaluation of Cannon Tubes
TM 9-1005-200-20&P	Unit Maintenance Manual (Including Repair Parts and Special Tools List) for Gun, Automatic:25-MM, M242 (NSN 1005-01-086-1400)(EIC: 4TE)(TM 08672A-20&P/1)(Reprinted W/Basic Incl C1-2)(This Item is Included on EM 0043 and EM 0065) 18 May 1992
TM 9-1005-200-30&P	Direct Support maintenance(Including Repair Parts and Special Tools List) For Gun Automatic: 25MM, M242(NSN 1005-01-086-1400 10 Aug 92
TM 9-1005-201-10	Operator's Manual For Machine Gun, 5.56-MM, M249 w/Equip (NSN 1005-01-127-7510) (EIC: 4BG) (TM 08671A-10/1) (Reprinted w/Basic Incl C1)(This Item is Included on EM 0065) 26 July 1991
TM 9-1005-201-23&P	Unit and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Machine Gun, 5.56MM, M249 W/Equip (NSN 1005-01-127-7510) (EIC: 4BG) (TM 08671A-23&P/2A; To 11W3-5-5-52) (Reprinted w/Basic Incl C1-6) 14 December 1990
TM 9-1005-213-23	Unit and Direct Support Maintenance Manual for Machine Gun, Caliber .50; Browning, M2, Heavy Barrel Flexible, W/E (NSN 1005-00-322-9715) (EIC: 4AG) M48 Turret Type (1005-00-957-3893) (EIC: 4BB) Soft Mount (1005-01-343-0747) (Navy) Fixed 30 August 1994
TM 9-1005-213-23P	Unit and Direct Support Maintenance Repair Parts and Special Tools List (Including DEPOT Repair, Parts and Special Tools List) for Machine Guns, Caliber .50; Browning M2, Heavy Barrel Flexible, W/E (NSN 1005-00-322-9715) (EIC: 4AG) M48 30 August 1994
TM 9-1005-224-10	Operator's Manual For Machine Gun, 7.62-MM, M60 W/E (NSN 1005-00-605-7710) (EIC: 4AJ) and Machine Gun, 7.62-MM, M60D W/E (1005-00-909-3002) (EIC: 4A8) (TO 11W2-6-4-11)(This Item is Included on EM 0065) 2 April 1998
TM 9-1005-224-23&P	Unit and Direct Maintenance Manual (Including Repair Parts and Special Tools List) For Machine Gun, 7.62-MM, M60 W/E (NSN 1005-00-605-7710) (EIC: 4AJ) and Machine Gun, 7.62-MM, M60D W/E (1005-00-090-3002) (EIC: 4A8) (T.O. 11W2-6-4-11) 21 May 1998
TM 9-1005-229-12	Operator's and Organizational Maintenance Manual (Including Repair Parts and Special Tools List): Sub-Machine Gun, Cal. .45, M3 W/E (FSN 1005-672-1767) and M3A1 W/E 20 October 1969
TM 9-1005-245-13&P	Operator's, Unit , and Direct Support Maintenance Manual with Repair Parts and Special Tools List (RRSTL) for Machine Gun Mounts and Combinations for Tactical/Armored Vehicles and Ground Mounting M122 Machine Gun Tripod Mount (1005-00-710-5 15 December 1994
TM 9-1005-249-10	Operator's Manual For Rifle, 5.56-mm, M16 (NSN 1005-00-856-6885) Rifle, 5.56-MM, M16A1 (1005-00-073-9421) (Reprinted W/Basic Incl C1-2) 11 February 1985
TM 9-1005-301-30	Repair of Wooden, Fiberglass/Plastic, or Plastic Components of Small Arms Weapons
TM 9-1005-303-14	Shotgun, 12-Gauge M1200
TM 9-1005-313-10	Operator's Manual for Machine Gun, 7.62-MM, M240 (NSN 1005-01-025-8095) and M240B (1005-01-412-3129) M240C (1005-01-085-4758) M240E1 (1005-01-252-4288) M240G (1005-01-359-2714) (TM 08670A-10/1A)(This Item is Included on EM 0065) 19 July 1996
TM 9-1005-313-23&P	Unit and Direct Support Maintenance Manual (Including DEPOT Maintenance Repair Parts) for Machine Gun, 7,62-MM, M240 (NSN

TM 9-1005-317-10	1005-01-025-8095); Machine Gun, 7.62MM, M240C (1005-01-085-4758); Machine Gun, 7.62MM, M240E1 (1005-01-252-4288) and 17 June 1997 Operator's Manual for Pistol, Semiautomatic, 9MM, M9 (NSN 1005-01-118-2640) (Navy SW 370-AA-OPI-010/9MM; TO 11W3-3-5-1; TM-1005A-10/1; Comdinst M8370.6) (Reprinted W/Basic Incl C1-3) 31 July 1985
TM 9-1005-317-23&P	Unit and Intermediate Direct Support Maintenance Manual Including Repair Parts and Special Tools List for Pistol, Semiautomatic, 9-MM, M9 (NSN 1005-01-118-2640) (TM 1005A-23&P/2A; SW 370-AA-MMO-010/9MM; TO 11W3-3-5-4; Comdinst M8370.7A) (Rep 16 October 1987
TM 9-1005-319-10	Operator's Manual for Rifle, 5.56 MM, M16A2 W/E (NSN 1005-01-128-9936) (EIC: 4GM); Rifle, 5.56 MM, M16A3 (1005-01-357-5112) Rifle, 5.56 MM, M16A4 (1005-01-383-2872) (EIC:4F9); Carbine, 5.56 MM, M4 W/E (1005-01-231-0973) (EIC: 4FJ); Carbine, 1 October 1998
TM 9-1005-319-23&P	Unit and Direct support Maintenance Manual (Including Repair Parts and Special Tools List) for Rifle, 5.56 MM, M16A2 W/E (NSN 1005-01-128-9936) (EIC: 4GM) (TO 11W3-5-5-42) (Reprinted W/Basic Incl C1-3)(This Item is Included on EM 0065) 1 May 1991
TM 9-1010-230-10	Operator's Manual for Machine Gun, 40-MM, MK 19, MOD3 (NSN 1010-01-126-9063)(EIC:4AE)(TM 08521A-10/1A; TO 11W2-5-16-1; SW 363-C3-MMM-010)(This Item is Included on EM 0014) 28 November 1996
TM 9-1010-230-23&P	Units and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Machine Gun, 40-MM, MK 19, MOD3 (TM 11W2-5-16-2; SW 363-C3-MMM-020))(This Item is Included on EM 0014) 20 December 1991
TM 9-1015-252-SERIES	Howitzer Medium M119

Total Army Training System Courseware

TM 9-1005-213-10	Operator's Manual for Machine Guns, Caliber .50; Browning, M2, Heavy Barrel Flexible, W/E (EIC: 4AG) M48 Turret Type (EIC: 4BB) Soft Mount (Navy) Fixed Type Left Hand Feed (This Item is Included on EM 0065) 6 August 1992
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Related Publications

Related publications are sources of additional information. They are not required in order to understand this publication.

Army Correspondence Course Program Subcourses

Department of Army Pamphlets

DA PAM 738-750	The Army Maintenance Management System (TAMMS) 1 August 1994
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Field Manuals

FM 23-14	Squad Automatic Weapon (SAW), M249
FM 23-27	MK 19, 40-MM Grenade Machine Gun, MOD 3 27 December 1988
FM 23-65	Browning Machine Gun, Caliber .50 HB, M2
FM 23-9	M16A1 Rifle And Rifle Marksmanship

Other Product Types

EM 0014	TM 9-1010-MK 19 MOD 3 - Operator/Unit/Direct Support Technical Manuals and Repair Parts and Special Tools List for MK 19, MOD 3,
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Machine Gun (This product includes the following items) TM 9-1010-230-10 (91/06/07) TM 9-1010-230-23&P (91/12/2 1 March 1994
 SC 4933-95-A11 Shop Set, Small Arms: Field Maintenance, Basic, Less Power
 SC 5180-95-A07 Sets, Kits, Outfits, Components Lists for Tool Kit, Small Arms Repairman
 TB 9-1000-247-34 Standards for Overseas Shipment of Small Arms, Aircraft Armament, Towed Howitzers Mortars, Recoilless Rifles, Rocket Launchers, and Associated Fire Control Equipment

Technical Manuals

TM 11-6625-3052-14 Operator's, Unit, Direct Support and General Support Maintenance Manual for Digital Multimeter AN/PSM-45 (NSN 6625-01-139-2512) (Reprinted w/Basic Incl C1-2) 10 January 1984

TM 11-6625-3052-24P Organizational, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Multimeter, Digital, AN/PSM-45. 3 February 1984

TM 9-1000-202-14 Evaluation of Cannon Tubes

TM 9-1005-200-20&P Unit Maintenance Manual (Including Repair Parts and Special Tools List) for Gun, Automatic:25-MM, M242 (NSN 1005-01-086-1400)(EIC: 4TE)(TM 08672A-20&P/1)(Reprinted W/Basic Incl C1-2)(This Item is Included on EM 0043 and EM 0065) 18 May 1992

TM 9-1005-201-10 Operator's Manual For Machine Gun, 5.56-MM, M249 w/Equip (NSN 1005-01-127-7510) (EIC: 4BG) (TM 08671A-10/1) (Reprinted w/Basic Incl C1)(This Item is Included on EM 0065) 26 July 1991

TM 9-1005-213-23 Unit and Direct Support Maintenance Manual for Machine Gun, Caliber .50; Browning, M2, Heavy Barrel Flexible, W/E (NSN 1005-00-322-9715) (EIC: 4AG) M48 Turret Type (1005-00-957-3893) (EIC: 4BB) Soft Mount (1005-01-343-0747) (Navy) Fixed 30 August 1994

TM 9-1005-213-23P Unit and Direct Support Maintenance Repair Parts and Special Tools List (Including DEPOT Repair, Parts and Special Tools List) for Machine Guns, Caliber .50; Browning M2, Heavy Barrel Flexible, W/E (NSN 1005-00-322-9715) (EIC: 4AG) M48 Turr 30 August 1994

TM 9-1005-301-30 Repair of Wooden, Fiberglass/Plastic, or Plastic Components of Small Arms Weapons

TM 9-1005-313-10 Operator's Manual for Machine Gun, 7.62-MM, M240 (NSN 1005-01-025-8095) and M240B (1005-01-412-3129) M240C (1005-01-085-4758) M240E1 (1005-01-252-4288) M240G (1005-01-359-2714) (TM 08670A-10/1A)(This Item is Included on EM 0065) 19 July 1996

TM 9-1005-313-23&P Unit and Direct Support Maintenance Manual (Including DEPOT Maintenance Repair Parts) for Machine Gun, 7,62-MM, M240 (NSN 1005-01-025-8095); Machine Gun, 7.62MM, M240C (1005-01-085-4758); Machine Gun, 7.62MM, M240E1 (1005-01-252-4288) and 17 June 1997

TM 9-1005-317-10 Operator's Manual for Pistol, Semiautomatic, 9MM, M9 (NSN 1005-01-118-2640) (Navy SW 370-AA-OPI-010/9MM; TO 11W3-3-5-1; TM-1005A-10/1; Comdinst M8370.6) (Reprinted W/Basic Incl C1-3) 31 July 1985

TM 9-1005-317-23&P Unit and Intermediate Direct Support Maintenance Manual Including Repair Parts and Special Tools List for Pistol, Semiautomatic, 9-MM, M9 (NSN 1005-01-118-2640) (TM 1005A-23&P/2A; SW 370-AA-MMO-010/9MM; TO 11W3-3-5-4; Comdinst M8370.7A) (Rep 16 October 1987

TM 9-1005-319-10 Operator's Manual for Rifle, 5.56 MM, M16A2 W/E(NSN 1005-01-128-9936) (EIC: 4GM); Rifle, 5.56 MM, M16A3 (1005-01-357-5112) Rifle, 5.56 MM, M16A4 (1005-01-383-2872) (EIC:4F9); Carbine, 5.56 MM, M4 W/E (1005-01-231-0973) (EIC: 4FJ); Carbine, 1 October 1998

TM 9-1005-319-23&P Unit and Direct support Maintenance Manual (Including Repair Parts and Special Tools List) for Rifle, 5.56 MM, M16A2 W/E (NSN 1005-01-128-

	9936) (EIC: 4GM) (TO 11W3-5-5-42) (Reprinted W/Basic Incl C1-3)(This Item is Included on EM 0065) 1 May 1991
TM 9-1010-230-10	Operator's Manual for Machine Gun, 40-MM, MK 19, MOD3 (NSN 1010-01-126-9063)(EIC:4AE)(TM 08521A-10/1A; TO 11W2-5-16-1; SW 363-C3-MMM-010)(This Item is Included on EM 0014) 28 November 1996
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TM 9-1015-252-SERIES	Howitzer Medium M119
TM 9-2350-264-20-2-2	Unit Maintenance Manual VOL 2 of 4 for Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 (NSN 2350-01-087-1095)(EIC:AAB) General Abrams, Turret (TM 08953A-20/3-2)(Reprinted W/Basic Incl C1)(This Item is Included on EM 0069) 27 March 1996
TM 9-2350-264-20-2-3	Unit Maintenance Manual VOL 3 of 4 for Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 (NSN 2350-01-087-1095)(EIC:AAB) General Abrams, Turret (TM 08953A-20/3-3)(Reprinted W/Basic Incl C1)(This Item is Included on EM 0069) 27 March 1996
TM 9-2350-264-20-2-4	Unit Maintenance Manual VOL 4 of 4 for Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 (NSN 2350-01-087-1095)(EIC:AAB) General Abrams, Turret (TM 08953A-20/3-4)(Reprinted W/Basic Incl C1-3)(This Item is Included on EM 0069) 27 March 1996
TM 9-2350-264-24-2	Unit Intermediate Direct Support and General Support Maintenance Manual for System Schematic, Tank, Combat, Full-Tracked: 120-MM Gun, M1A1,(NSN 2350-01-087-1095)(EIC:AAB) General Abrams Turret 23 April 1999
TM 9-2350-264-24P-2	Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Tank, Combat, Full-Tracked, 120-mm M1A1 Abrams Turret, 28 May 1996
TM 9-2350-264-34-2-1	Direct Support and General Support Maintenance Manual for Tank, Combat, Full-Tracked: 120-mm, M1A1 6 May 1996
TM 9-2350-264-34-2-2	Direct Support and General Support Maintenance Manual for Tank, Combat, Full-Tracked: 120-mm, M1A1 6 May 1996
TM 9-2350-264-20-1	Maintenance Allocation Chart
TM 9-243	Use and Care of Hand Tools and Measuring Tools (M6290-AJ-MAN-010; TO 32-1-101; TM 10209-10/1)(Reprinted w/Basic Incl C1-2)(This Item is Included on EM 0178) 12 December 1983
TM 9-4910-751-14&P	Operator, Unit, Direct Support Maintenance Manual for Test Set, STE-M1/FVS (NSN 6625-01-135-4389)(4910-01-135-4379)(4910-01-142-2640)(This Item is Included on EM 0043 & EM 0069) 28 May 1991
TM 9-4931-586-12	Operator's and Organizational Maintenance Manual for Test Set, Electronic, DSESTS-M1/FVS (NSN 49310-01-120-0764) 17 April 1985
TM 9-4931-586-12-2&P	Operator's and Unit Maintenance Manual Including Repair Parts and Special Tools List (Including DEPOT Maintenance Repair Parts) for Test Set, Electronic AN/USM 615 (DSESTS-M1/FVS)(NSN 4931-01-120-0764)(EIC:4WC) M1 Equipment Support Group 14 April 1998
TM 9-4931-586-12-3&P	Operator's and Unit Maintenance Manual Including Repair Parts and Special Tools List (Including DEPOT Maintenance Repair Parts) for Test Set, Electronic AN/USM 615 (DSESTS-M1/FVS)(NSN 4931-01-120-0764)(EIC:4WC) M2/M3 (FVS) Equipment Sup 14 April 1998
TM 9-4931-586-30&P	Direct Support Maintenance Manual Including Repair Parts and Special Tools List (Including DEPOT Maintenance Repair Parts) for Test Set, Electronic AN/USM 615 (DSESTS-M1/FVS)(NSN 4935-01-120-0764)(EIC:4WQ) 14 April 1998
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JOEL B. HUDSON

*Administrative Assistant to the
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