

**STP 9-27M14-SM-TG**

**Soldier's Manual/Trainer's  
Guide, MOS 27M, Multiple  
Launch Rocket System  
(MLRS) Repairer**

**AUGUST 2002**

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**HEADQUARTERS  
DEPARTMENT OF THE ARMY**



# **SOLDIER'S MANUAL and TRAINER'S GUIDE**

## **MOS 27M**

### **Multiple Launch Rocket System (MLRS) Repairer**

#### **Skill Levels 1, 2, 3 and 4**

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## **PREFACE**

This soldier training publication (STP) is intended for soldiers holding MOS 27M, Skill Levels 1, 2, 3, and 4, their supervisors, trainers, and commanders. It contains an MOS Training Plan that provides 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 27M should have access to this publication. Trainers and first-line supervisors should actively plan for a 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 225, 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 27M. 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 27M soldiers. Commanders employ two primary methods to evaluate a soldiers' proficiency:

Commander's evaluations. 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 the following publications to establish effective training plans and programs that integrate soldier, leaders, and collective tasks: 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).

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 cannot 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**

**Trainer's 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.

<b>AIT</b>	Advanced Individual Training
<b>ANCOC</b>	Advanced NCO Course
<b>UNIT</b>	Trained in the Unit
<b>BNCOC</b>	Basic NCO Course
<b>BCT</b>	Basic Combat Course

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.

<b>BA</b>	- Biannually
<b>AN</b>	- Annually
<b>SA</b>	- Semiannually
<b>QT</b>	- Quarterly
<b>MO</b>	- Monthly
<b>BW</b>	- Bi-weekly
<b>WK</b>	- 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 Maintain Launcher Drive System
- 2 Test/Repair Cage Assembly
- 3 Maintain MLRS Test Equipment

**Skill Level 3**

- 4 Maintenance Operations
- 5 Maintenance Management I

**Skill Level 4**

- 6 Maintenance Management II

2-3. Duty Position Training Requirements.

SKILL LEVEL	DUTY POSTION	SUBJECT AREAS	CROSS-TRAIN	TRAIN-UP/MERGER
1	Multiple Launch Rocket System Repairer	1 through 3	N/A	27M2, Multiple Launch Rocket System Repairer
2	Multiple Launch Rocket System Repairer	1 through 4	N/A	27M3, Multiple Launch Rocket Inspector/Supervisor
3	Multiple Launch Rocket System Inspector	1 through 6	Multiple Launch Rocket System Supervisor	27M4, Section Chief, Missile Maintenance Supervisor
4	Multiple Launch Rocket System Supervisor	1 through 6	Multiple Launch Rocket System Inspector	27M4, Platoon Sergeant System Inspector



2-4. Critical Tasks List.**MOS TRAINING PLAN  
27M14****CRITICAL TASKS**

<b>Subject Area</b>	<b>Task Number</b>	<b>Title</b>	<b>Training Location</b>	<b>Sust Tng Freq</b>	<b>Sust Tng SL</b>
<b>Skill Level 1</b>					
1. Maintain Launcher Drive System	093-27M-1001	Remove Turret Assembly	AIT	AN	1
	093-27M-1002	Install Turret Assembly	AIT	AN	1
	093-27M-1003	Replace 15-Degree (267-Mil) Limit Switch	AIT	AN	1
	093-27M-1004	Replace 27-Degree (480-Mil) Limit Switch	AIT	AN	1
	093-27M-1007	Replace 1.25-Degree (22.2Mil) Limit Switch	AIT	AN	1
	093-27M-1009	Replace Azimuth Drive Speed Reducer	AIT	AN	1
	093-27M-1012	Replace Azimuth Position Transducer/Switch	AIT	AN	1
	093-27M-1015	Replace Elevation Actuator-Support Assembly	AIT	AN	1
	093-27M-1016	Replace Elevation Angle Drive Unit	AIT	AN	1
	093-27M-1018	Replace Elevation Position Monitor Transducer	AIT	AN	1
	093-27M-1022	Bleed Launcher Drive System Hydraulic System	AIT	AN	1
	093-27M-1024	Replace Hydraulic Power Supply Motor/Pump	AIT	AN	1
2. Test/Repair Cage Assembly	093-27M-1050	Perform Stabilization Reference Package Mounting/Adjusting Bolt Maintenance	AIT	AN	1
	093-27M-1054	Repair Boom Controller	AIT	AN	1
	093-27M-1056	Replace Cage-Down Limit Switch	AIT	AN	1
	093-27M-1059	Replace Rocket Pod Latch-Hook Assembly	AIT	AN	1
	093-27M-1061	Replace Hoist-Up Limit Switch	AIT	AN	1
	093-27M-1062	Replace Hoist-Down Limit Switch	AIT	AN	1
	093-27M-1063	Replace Hoist Hook and Pulley Assembly	AIT	AN	1
	093-27M-1064	Replace Hoist Cable	AIT	AN	1
	093-27M-1065	Replace Intermediate Beam	AIT	AN	1

## CRITICAL TASKS

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
	093-27M-1067	Replace Boom-In/Boom-Out Limit Switch	AIT	AN	1
	093-27M-1069	Replace Boom Extension Actuator	AIT	AN	1
	093-27M-1071	Remove Rocket Pod Hoist Carriage Assembly	AIT	AN	1
	093-27M-1072	Install Rocket Pod Hoist Carriage Assembly	AIT	AN	1
	093-27M-1073	Perform Load Test	AIT	AN	1
	093-27M-1074	Remove Cage Assembly	AIT	AN	1
	093-27M-1075	Install Cage Assembly	AIT	AN	1
	093-27M-1077	Troubleshoot the Fire Control System (FCS)	AIT	AN	1
	093-27M-1078	Troubleshoot the Boom Control System	AIT	AN	1
	093-27M-1079	Troubleshoot the Hoist Assembly	AIT	AN	1
	093-27M-1080	Troubleshoot the Launcher Drive System	AIT	AN	1
	093-27M-1081	Troubleshoot the Position Determining System	AIT	AN	1
	093-27M-1082	Perform System Analysis on the Multiple Launch Rocket System	AIT	AN	1
	093-27M-1083	Perform Travel Lock System Adjustment	AIT	AN	1
3. Maintain MLRS Test Equipment	093-27M-1160	Perform Surveillance Test of the Missile/Launch Pod Assembly	AIT	AN	1
	093-27M-1162	Troubleshoot the Guided Missile Test Set (AN/TSM 207)	AIT	AN	1
	093-27M-1164	Repair the Guided Missile Test Set (AN/TSM 207)	AIT	AN	1
	093-27M-1178	Perform Blast Shield Door Adjustment	AIT	AN	1
	093-27M-1179	Troubleshoot the Launcher FCS/LDS Using Maintenance Manager	AIT	AN	1
	093-27M-1180	Remove/Replace Hydraulic Pump Unit	AIT	AN	1
	093-27M-1181	Remove/Replace Azimuth Drive Unit	AIT	AN	1
	093-27M-1182	Remove/Replace Hydraulic Reservoir Unit	AIT	AN	1

## CRITICAL TASKS

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
<b>Skill Level 3</b>					
4. Maintenance Operations	093-SSG-3004	Submit a Quality Deficiency Report (QDR)	BNCOC	QT	3
	093-SSG-3005	Submit Equipment Improvement Recommendation (EIR)	BNCOC	QT	3
	093-SSG-3006	Plan Work Flow	BNCOC	QT	3
	093-SSG-3007	Direct Performance of Preventive Maintenance	BNCOC	QT	3
	093-SSG-3008	Provide Technical Assistance to Repairers	BNCOC	QT	3
	093-SSG-3009	Perform Initial Inspections	BNCOC	QT	3
	093-SSG-3010	Perform Final Inspections	BNCOC	QT	3
	093-SSG-3012	Perform In-Process Inspection	BNCOC	QT	3
5. Maintenance Management I	093-SSG-3001	Inspect Section/Shop Safety	BNCOC	QT	3
	093-SSG-3002	Manage Section/Shop Security	BNCOC	QT	3
	093-SSG-3003	Maintain Section/Shop Calibration Program	BNCOC	QT	3
	093-SSG-3011	Write a Standing Operating Procedure (SOP)	BNCOC	QT	3
	093-SSG-3013	Maintain Property Accountability	BNCOC	QT	3
	093-SSG-3014	Assess Battlefield Damage	BNCOC	QT	3
	093-SSG-3015	Manage Demand Supported Repair Parts Listed on the Prescribed Load List (PLL)	BNCOC	QT	3
	093-SSG-3016	Monitor Bench Stock Operations	BNCOC	QT	3
	093-SSG-3017	Monitor Shop Stock Operations	BNCOC	QT	3
	093-SSG-3019	Inspect Maintenance Support Team Operations	BNCOC	QT	3
	093-SSG-3020	Inspect Maintenance Reporting and Management Data	BNCOC	QT	3
	093-SSG-3021	Review SAMS-1 Reports	BNCOC	QT	3
<b>Skill Level 4</b>					
6. Maintenance Management II	093-SFC-4101	Manage a Shop Security Program	ANCOC	MO	4

## CRITICAL TASKS

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
	093-SFC-4103	Prepare input to Materiel Condition Status Report	ANCOC	QT	4
	093-SFC-4104	Manage SAMS-1 System Administration	ANCOC	SA	4
	093-SFC-4105	Manage Hand Receipt Functions	ANCOC	SA	4
	093-SFC-4106	Manage Maintenance Shop Operations	ANCOC	QT	4
	093-SFC-4107	Manage Logistics Support	ANCOC	QT	4
	093-SFC-4108	Manage Shop Personnel Actions	ANCOC	SA	4
	093-SFC-4109	Review SAMS-2 Reports	ANCOC	SA	4
	093-SFC-4110	Conduct Site Reconnaissance	UNIT	AN	4
	093-SFC-4111	Coordinate Activities between Production Control and Supply Support Activity	ANCOC	MO	4
	093-SFC-4112	Manage Shop Supply Operations	ANCOC	QT	4
	093-SFC-4113	Provide Liaison to Supported Units	ANCOC	AN	4
	093-SFC-4114	Manage Operational Readiness Float (ORF) Transactions	ANCOC	AN	4

**CHAPTER 3**

**MOS/Skill Level Tasks**

Skill Level 1

Subject Area 1: Maintain Launcher Drive System

**Remove Turret Assembly**

**093-27M-1001**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, two 27M MLRS repairers and one 13M MLRS crew member to assist as required; HEMTT wrecker, an operator, a 27M shop set, a 27M tool kit; a hoisting sling, a manila rope, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The turret assembly was removed according to the applicable technical manuals (TM). Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Use only a few drops of lubricating oil to loosen screws, nuts, and bolts. Use rags to contain any excess oils or grease. Handle disposal of hazardous materials and hazardous waste (such as, ethylene glycol, brake fluid, oil, grease, solvents, and contaminated rags) IAW unit Standing Operating Procedures (SOP)/Operations Orders (OPORDs), local regulations, and/or host nation laws.

Comply with unit SOP, OPORDs, local regulations, and/or host nation laws for drip pans or secondary containment devices.

**Evaluation Preparation:** Setup: Have the cage assembly removed (Task 093-27M-1074) and the elevation transmission removed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the turret assembly and corrected any defects.	—	—
2. Rotated the turret manually until the 1.25-degree limit switch was free.	—	—
3. Made an index mark on the turret and one on the base.	—	—
4. Removed the cable bundle from the turret.	—	—
5. Removed the ground strap.	—	—
6. Removed the swivel.	—	—
7. Attached the hoisting sling.	—	—
8. Attached the guidelines.	—	—
9. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

DA FORM 2404  
DA PAMPHLET 738-750  
TM 9-1425-646-10  
TM 9-1425-648-13&P  
TM 9-243

**Related**

**Install Turret Assembly  
093-27M-1002**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, two 27M MLRS repairers and one 13M MLRS crewmember to assist, as required; HEMTT wrecker and an operator, a 27M shop set and 27M tool kit, a hoisting sling, a manila rope, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pamphlet 738-750. Note: This may be performed in an NBC environment.

**Standards:** The turret assembly was installed according to the applicable technical manuals (TM). Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Use only a few drops of lubricating oil to loosen screws, nuts, and bolts. Use rags to contain any excess oils or grease. Handle disposal of hazardous materials and hazardous waste (such as, ethylene glycol, brake fluid, oil, grease, solvents, and contaminated rags) IAW unit Standing Operating Procedures (SOP)/Operations Orders (OPORDs), local regulations, and/or host nation laws.

Comply with unit SOP, OPORDs, local regulations, and/or host nation laws for drip pans or secondary containment devices.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the turret assembly and corrected any defects.	—	—
2. Inspected the felt seal.	—	—
3. Positioned the turret to the base assembly.	—	—
4. Aligned the index mark on the turret with the index mark on the base assembly.	—	—
5. Torqued the bolts.	—	—
6. Installed the swivel.	—	—
7. Installed the ground strap.	—	—
8. Routed the cable bundle through the turret structure.	—	—
9. Verified that the turret assembly was operational.	—	—
10. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	
DA PAMPHLET 738-750	
TM 9-1425-646-10	
TM 9-1425-648-13&P	
TM 9-243	

**Replace 15-Degree (267-Mil) Limit Switch  
093-27M-1003**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, a 15-degree (267-mil) limit switch, DA Form 2404, one 27M MLRS repairer and one 13M MLRS crewmember to assist as required, HEMTT wrecker and an operator, a 8050A digital multimeter, a 27M shop set and tool kit, hoisting sling, lock wire, jury struts, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The 15-degree (267-mil) limit switch was replaced according to the applicable technical manuals. Performed task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the 15-degree limit switch and corrected any defects.	___	___
2. Installed the jury struts.	___	___
3. Removed the 27-degree limit switch plate.	___	___
4. Removed the defective 15-degree limit switch.	___	___
5. Installed the replacement 15-degree limit switch.	___	___
6. Removed the jury struts.	___	___
7. Attached the wrecker to the cage, using the hoisting sling.	___	___
8. Adjusted the 15-degree limit switch.	___	___
9. Installed the 27-degree limit switch plate.	___	___
10. Verified that the 15-degree limit switch was operational.	___	___
11. Positioned the loader launcher module 1,600 mils left or right.	___	___
12. Performed stow procedures.	___	___
13. Completed maintenance forms, if required.	___	___

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM0702
DA PAMPHLET 738-750	MM0703
TM 9-1425-646-10	MM0704
TM 9-1425-648-13&P	MM0705



**References**  
**Required**  
TM 9-243

**Related**  
MM0706  
MM0707  
MM4806

**Replace 27-Degree (480-Mil) Limit Switch  
093-27M-1004**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, a 27-degree (480-mil) limit switch, DA Form 2404, one 27M MLRS repairer, and one 13M MLRS crewmember to assist as required, HEMTT wrecker and an operator, a 8050A digital multimeter, a 27M shop set and 27M tool kit, a hoisting sling, lock wire, jury struts, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The 27-degree (480-mil) limit switch was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the 27-degree limit switch and corrected any defects.	—	—
2. Unlocked the cage manually and elevated it approximately 89 mils.	—	—
3. Installed the shorting receptacle on cable W35P5.	—	—
4. Installed the jury struts.	—	—
5. Removed the faulty 27-degree limit switch.	—	—
6. Installed the replacement 27-degree limit switch.	—	—
7. Removed the jury struts.	—	—
8. Attached the wrecker to the cage using the hoisting sling.	—	—
9. Adjusted the 27-degree limit switch.	—	—
10. Verified that the 27-degree limit switch was operational.	—	—
11. Positioned the loader launcher module 1,600 mils left or right.	—	—
12. Performed stow procedures.	—	—
13. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM0702
DA PAMPHLET 738-750	MM0703
TM 9-1425-646-10	MM0704
TM 9-1425-648-13&P	MM0705

**References**  
**Required**  
TM 9-243

**Related**  
MM0706  
MM0707  
MM4806

**Replace 1.25-Degree (22.2Mil) Limit Switch  
093-27M-1007**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, a 1.25-degree (22.2-mil) limit switch, DA Form 2404, one 27M MLRS repairer and one 13M MLRS crewmember to assist as required, 8050A digital multimeter, a 27M shop set and 27M tool kit, lock wire, jury struts, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The 1.25-degree (22.2-mil) limit switch was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the 1.25-degree limit switch and corrected any defects.	—	—
2. Installed the jury struts.	—	—
3. Removed the faulty 1.25-degree limit switch.	—	—
4. Installed the replacement 1.25-degree limit switch.	—	—
5. Adjusted the 1.25-degree limit switch.	—	—
6. Verified that the 1.25-degree limit switch was operational.	—	—
7. Removed the jury struts.	—	—
8. Cycled the rocket launcher in elevation and azimuth.	—	—
9. Performed stow procedures.	—	—
10. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM0702
DA PAMPHLET 738-750	MM0703
TM 9-1425-646-10	MM0704
TM 9-1425-648-13&P	MM0705
TM 9-243	MM0706
	MM0707
	MM4806

**Replace Azimuth Drive Speed Reducer  
093-27M-1009**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, an azimuth drive speed reducer, DA Form 2404, one 27M MLRS repairer and one 13M MLRS crewmember to assist as required, 27M-shop set and tool kit, caps and plugs, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The azimuth drive speed reducer was replaced according to the applicable technical manuals (TM). Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Use only a few drops of lubricating oil to loosen screws, nuts, and bolts. Use rags to contain any excess oils or grease. Handle disposal of hazardous materials and hazardous waste (such as, ethylene glycol, brake fluid, oil, grease, solvents, and contaminated rags) IAW unit Standing Operating Procedures (SOP)/Operations Orders (OPORDs), local regulations, and/or host nation laws.

Comply with unit SOP, OPORDs, local regulations, and/or host nation laws for drip pans or secondary containment devices.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the azimuth drive speed reducer and corrected any defects.	—	—
2. Noted the position of the X-marks on the base.	—	—
3. Aligned the azimuth geared bearing X-mark with the pinion gear X-mark.	—	—
4. Removed the azimuth drive reducer.	—	—
5. Recorded the thickness of the shims on each stud.	—	—
6. Installed the shims.	—	—
7. Positioned the pinion gear X-mark between the X-mark on the geared bearing.	—	—
8. Torqued the nuts.	—	—
9. Performed backlash check.	—	—
10. Ensured that the pinion gear and gearing teeth were parallel.	—	—
11. Aligned the azimuth geared bearing X-marks with the X-mark on the base.	—	—
12. Verified that the azimuth drive speed reducer was operational.	—	—
13. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

DA FORM 2404  
DA PAMPHLET 738-750  
TM 9-1425-646-10  
TM 9-1425-648-13&P  
TM 9-243

**Related**

MM0702  
MM0703  
MM0704  
MM0705  
MM0706  
MM0707  
MM4806

**Replace Azimuth Position Transducer/Switch  
093-27M-1012**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, an azimuth position transducer switch, DA Form 2404, a 27M shop set and 27M tool kit, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The azimuth position transducer/switch was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment or damage to equipment.

**CAUTION!**

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the azimuth position transducer/switch and corrected any defects.	—	—
2. Removed the defective azimuth position transducer/switch.	—	—
3. Installed the replacement azimuth position transducer/switch.	—	—
4. Adjusted the azimuth position transducer/switch.	—	—
5. Verified that the azimuth position transducer/switch was operational.	—	—
6. Cycled the rocket launcher in azimuth.	—	—
7. Performed stow procedures.	—	—
8. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	
DA PAMPHLET 738-750	
TM 9-1425-646-10	
TM 9-1425-648-13&P	
TM 9-243	

**Replace Elevation Actuator-Support Assembly  
093-27M-1015**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, an elevation actuator-support assembly, DA Form 2404, one 27M MLRS repairer and one 13M MLRS crewmember to assist as required, HEMTT wrecker and an operator, a nylon sling, a 27M shop set and 27M tool kit, hoisting sling, two jury struts, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pam 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The elevation actuator-support assembly was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the elevation actuator-support assembly and corrected any defects.	—	—
2. Installed the jury struts.	—	—
3. Removed the elevation drive propeller shaft.	—	—
4. Removed the splined yoke.	—	—
5. Removed the faulty elevation actuator-support assembly.	—	—
6. Installed the replacement elevation actuator-support assembly.	—	—
7. Installed the splined yoke.	—	—
8. Installed the elevation drive propeller shafts.	—	—
9. Verified that the elevation actuator-support assembly was operational.	—	—
10. Removed the jury struts.	—	—
11. Cycled the rocket launcher in elevation.	—	—
12. Completed maintenance forms, if required.	—	—

Note: If the jury struts cannot be installed, support the cage with the wrecker and the hoisting sling.

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM0702
DA PAMPHLET 738-750	MM0703
TM 9-1425-646-10	MM0704
TM 9-1425-648-13&P	MM0705



**References**  
**Required**  
TM 9-243

**Related**  
MM0706  
MM0707  
MM4806

**Replace Elevation Angle Drive Unit  
093-27M-1016**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, an elevation angle drive unit, DA Form 2404, one 27M MLRS repairer and one 13M MLRS crewmember to assist as required, HEMTT wrecker and an operator, a hoisting sling, a 27M shop set and 27M tool kit, jury struts, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The elevation angle drive unit was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Use only a few drops of lubricating oil to loosen screws, nuts, and bolts. Use rags to contain any excess oil or grease. Handle disposal of hazardous materials and hazardous waste (such as, ethylene glycol, brake fluid, oil, grease, solvents, and contaminated rags) IAW unit Standing Operating Procedures (SOP)/Operations Orders (OPORDs), local regulations, and/or host nation laws.

Comply with unit SOP, OPORDs, local regulations, and/or host nation laws for drip pans or secondary containment devices.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the elevation angle drive unit and corrected any defects.	—	—
2. Installed the jury struts. Note: If the jury struts cannot be installed, support the cage with the wrecker and the hoisting sling.	—	—
3. Removed the elevation drive propeller shaft.	—	—
4. Removed the defective elevation angle drive unit.	—	—
5. Removed the keyed yoke and shaft key.	—	—
6. Installed the shaft key and keyed yoke.	—	—
7. Installed the replacement elevation angle drive unit.	—	—
8. Installed the elevation drive propeller shafts.	—	—
9. Verified that the elevation angle drive unit was operational.	—	—
10. Removed the jury struts.	—	—
11. Cycled the rocket launcher in elevation.	—	—
12. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

DA FORM 2404  
DA PAMPHLET 738-750  
TM 9-1425-646-10  
TM 9-1425-648-13&P  
TM 9-243

**Related**

MM0702  
MM0703  
MM0704  
MM0705  
MM0706  
MM0707  
MM4806

**Replace Elevation Position Monitor Transducer  
093-27M-1018**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, an elevation position monitor transducer, DA Form 2404, one 27M MLRS repairer and one 13M MLRS crewmember to assist as required, 27M-shop set and tool kit, lock wire, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The elevation position monitor transducer was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the elevation position monitor transducer and corrected any defects.	—	—
2. Removed the faulty elevation position monitor transducer.	—	—
3. Installed the replacement elevation position monitor transducer.	—	—
4. Adjusted the elevation position monitor transducer.	—	—
5. Verified that the elevation position monitor transducer was operational.	—	—
6. Cycled the rocket launcher in elevation.	—	—
7. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM0702
DA PAMPHLET 738-750	MM0703
TM 9-1425-646-10	MM0704
TM 9-1425-648-13&P	MM0705
TM 9-243	MM0706
	MM0707
	MM4806

**Bleed Launcher Drive System Hydraulic System  
093-27M-1022**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA form 2404, one 27M MLRS repairer and one 13M MLRS crewmember to assist as required, hydraulic servicing unit and drain pan, hydraulic fluid, clear plastic tubing, cotton cloth, TM 9-1425-648-13&P, TM 9-243, and DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** Bleed procedures on the hydraulic system were performed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Use only a few drops of lubricating oil to loosen screws, nuts, and bolts. Use rags to contain any excess oil or grease. Handle disposal of hazardous materials and hazardous waste (such as, ethylene glycol, brake fluid, oil, grease, solvents, and contaminated rags) IAW unit Standing Operating Procedures (SOP)/Operations Orders (OPORDs), local regulations, and/or host nation laws.

Comply with unit SOP, OPORDs, local regulations, and/or host nation laws for drip pans or secondary containment devices.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed hydraulic system servicing procedures.	_____	_____
2. Performed bleed procedures on the hydraulic power supply.	_____	_____
3. Performed bleed procedures on the elevation servomotor.	_____	_____
4. Performed bleed procedures on the azimuth servomotor.	_____	_____
5. Performed bleed procedures on the azimuth drive assembly brake.	_____	_____
6. Performed bleed procedures on the elevation drive assembly brake.	_____	_____
7. Performed bleed procedures on the manual bleed valve.	_____	_____
8. Performed after-system operation bleeding.	_____	_____
9. Completed maintenance forms, if required.	_____	_____

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<p><b>Required</b> DA FORM 2404 DA PAMPHLET 738-750 TM 9-1425-648-13&amp;P</p>	<p><b>Related</b> MM0702 MM0703 MM0704</p>
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**References**

**Required**  
TM 9-243

**Related**  
MM0705  
MM0706  
MM0707  
MM4806

**Replace Hydraulic Power Supply Motor/Pump  
093-27M-1024**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, two 27M MLRS repairers and one 13M MLRS crewmember to assist as required, hydraulic power supply motor/pump, a 27M tool kit, fluid hydraulic, caps and plugs, lock wire, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The hydraulic power supply motor/pump was replaced according to applicable technical manuals. Perform this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Use only a few drops of lubricating oil to loosen screws, nuts, and bolts. Use rags to contain any excess oil or grease. Handle disposal of hazardous materials and hazardous waste (such as, ethylene glycol, brake fluid, oil, grease, solvents, and contaminated rags) IAW unit Standing Operating Procedures (SOP)/Operations Orders (OPORDs), local regulations, and/or host nation laws.

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the hydraulic power supply motor/pump and corrected any defects.	—	—
2. Disconnected electrical cable W13P1.	—	—
3. Disconnected electrical connector W34P7.	—	—
4. Removed the defective hydraulic power supply motor/pump.	—	—
5. Installed the replacement hydraulic power supply motor/pump.	—	—
6. Connected the electrical connector W34P7.	—	—
7. Connected the electrical cable W13P1.	—	—
8. Checked the hydraulic fluid reservoir.	—	—
9. Cycled the M270 rocket launcher in azimuth and elevation.	—	—
10. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	
DA PAMPHLET 738-750	
TM 9-1425-646-10	
TM 9-1425-648-13&P	
TM 9-243	

Subject Area 2: Test/Repair Cage Assembly

**Perform Stabilization Reference Package Mounting/Adjusting Bolt Maintenance  
093-27M-1050**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, one 27M MLRS repairer, one 13M MLRS crewmember, and one 82C field artillery surveyor to assist as required, 27M shop set and a 27M tool kit, a survey's Theodolite, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and a DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** Maintenance on the Stabilization Reference Package (SRP) mounting/adjusting bolt was performed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Removed the SRP mounting/adjusting bolt.	—	—
2. Removed the SRP guide assembly.	—	—
3. Performed level-gauge procedures.	—	—
4. Installed the SRP mounting/adjusting bolt.	—	—
5. Adjusted the SRP mounting/adjusting bolt.	—	—
6. Installed the SRP guide assembly.	—	—
7. Torqued the two nuts on the mounting/adjusting bolt.	—	—
8. Installed and secured the SRP.	—	—
9. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM0702
DA PAMPHLET 738-750	MM0703
TM 9-1425-646-10	MM0704
TM 9-1425-648-13&P	MM0705
TM 9-243	MM0706
	MM0707
	MM4806



**Repair Boom Controller  
093-27M-1054**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, a UUT performance test printout, 27M shop set and a 27M tool kit, a 8050A digital multimeter, a BC test program set, TM 9-4935-646-14-2-1, TM 9-4935-646-14-2-2, TM 9-4935-646-14-2-3, TM 9-1425-647-40-4 (Reserves only), TM 9-243, and a DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The Boom Control (BC) was repaired according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the BC and corrected any defects.	—	—
2. Performed troubleshooting procedures and isolated the malfunction to a faulty component.	—	—
3. Removed the faulty component.	—	—
4. Installed the replacement component.	—	—
5. Verified that the boom control was operational.	—	—
6. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM0702
DA PAMPHLET 738-750	MM0703
TM 9-1425-647-40-4	MM0704
TM 9-243	MM0705
TM 9-4935-646-14-2-1	MM0706
TM 9-4935-646-14-2-2	MM0707
TM 9-4935-646-14-2-3	

**Replace Cage-Down Limit Switch  
093-27M-1056**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, a cage-down limit switch, DA Form 2404, one 27M MLRS repairer and one 13M MLRS crewmember to assist as required, 27M shop set and a 27M tool kit, a 8050A digital multimeter, lock wire, jury struts, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-4935-646-14-2-3, TM 9-243, and DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The cage-down limit switch was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the cage-down limit switch and corrected any defects.	—	—
2. Installed the jury struts.	—	—
3. Removed the faulty cage-down limit switch.	—	—
4. Installed the replacement cage-down limit switch.	—	—
5. Adjusted the cage-down limit switch.	—	—
6. Verified that the cage-down limit switch was operational.	—	—
7. Removed the jury struts.	—	—
8. Cycled the rocket launcher in elevation.	—	—
9. Performed stow procedures.	—	—
10. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM0702
DA PAMPHLET 738-750	MM0703
TM 9-1425-646-10	MM0704
TM 9-1425-648-13&P	MM0705
TM 9-243	MM0706
TM 9-4935-646-14-2-3	MM0707
	MM4806

**Replace Rocket Pod Latch-Hook Assembly  
093-27M-1059**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, a rocket pod latch-hook assembly, DA Form 2404, a 27M shop set, a 27M tool kit, lock wire, TM 9-1425-648-13&P, TM 9-243, and a DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The rocket pod latch-hook assembly was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the rocket pod latch-hook assembly and corrected any defects.	—	—
2. Removed the link assembly from the rocket pod latch-hook assembly.	—	—
3. Removed the faulty rocket pod latch-hook assembly.	—	—
4. Installed the replacement rocket pod latch-hook assembly.	—	—
5. Performed rigging gauge adjustment.	—	—
6. Connected the link assembly to the rocket pod latch-hook assembly.	—	—
7. Operated the latch handle to ensure a smooth operation.	—	—
8. Verified that the rocket pod latch-hook assembly was operational.	—	—
9. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM3689
DA PAMPHLET 738-750	MM4806
TM 9-1425-648-13&P	
TM 9-243	

**Replace Hoist-Up Limit Switch  
093-27M-1061**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, a hoist-up limit switch, DA Form 2404, one 27M MLRS repairer, one 13M MLRS crewmember to assist as required, a 27M shop set, a 27M tool kit, a 8050A digital multimeter, lock wire, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pamphlet 738-540. Note: This task may be performed in an NBC environment.

**Standards:** The hoist-up limit switch was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the hoist-up limit switch and corrected any defects.	—	—
2. Removed the faulty hoist-up limit switch.	—	—
3. Installed the replacement hoist-up limit switch.	—	—
4. Adjusted the hoist-up limit switch.	—	—
5. Verified that the hoist-up limit switch was operational.	—	—
6. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM0702
DA PAMPHLET 738-750	MM0703
TM 9-1425-646-10	MM0704
TM 9-1425-648-13&P	MM0705
TM 9-243	MM0706
	MM0707
	MM4806

**Replace Hoist-Down Limit Switch  
093-27M-1062**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, a hoist-down limit switch, DA Form 2404, one 27M MLRS repairer, one 13M MLRS crewmember to assist as required, a 27M shop set, a 27M tool kit, a 8050A digital multimeter, lock wire, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and a DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The hoist-down limit switch was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the hoist-down limit switch and corrected any defects.	—	—
2. Removed the faulty hoist-down limit switch.	—	—
3. Installed the replacement hoist-down limit switch.	—	—
4. Adjusted the hoist-down limit switch.	—	—
5. Verified that the hoist-down limit switch was operational.	—	—
6. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM0702
DA PAMPHLET 738-750	MM0703
TM 9-1425-646-10	MM0704
TM 9-1425-648-13&P	MM0705
TM 9-243	MM0706
	MM0707
	MM4806

**Replace Hoist Hook and Pulley Assembly**  
**093-27M-1063**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, a hoist hook and pulley assembly, DA Form 2404, one 27M MLRS repairer, one 13M MLRS crewmember to assist as required, a 27M shop set and tool kit, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and a DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The hoist hook and pulley assembly was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the hoist hook and pulley assembly and corrected any defects.	—	—
2. Removed the faulty hoist hook and pulley assembly.	—	—
3. Installed the replacement hoist hook and pulley assembly.	—	—
4. Verified that the hoist hook and pulley assembly was operational.	—	—
5. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- DA FORM 2404
- DA PAMPHLET 738-750
- TM 9-1425-646-10
- TM 9-1425-648-13&P
- TM 9-243

**Related**

**Replace Hoist Cable**  
**093-27M-1064**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, a hoist cable, DA Form 2404, one 27M MLRS repairer, one 13M MLRS crewmember to assist as required, a 27M shop set and tool kit, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and a DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The hoist cable was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Use only a few drops of lubricating oil to loosen screws, nuts, and bolts. Use rags to contain any excess oil or grease. Handle disposal of hazardous materials and hazardous waste (such as, ethylene glycol, brake fluid, oil, grease, solvents, and contaminated rags) IAW unit Standing Operating Procedures (SOP)/Operations Orders (OPORDs), local regulations, and/or host nation laws.

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the hoist cable and corrected any defects.	—	—
2. Removed the hoist-down limit switch actuating screw.	—	—
3. Removed the faulty hoist cable.	—	—
4. Installed the replacement hoist cable.	—	—
5. Replaced the hoist-down limit switch actuating screw.	—	—
6. Verified that the hoist cable was operational.	—	—
7. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	
DA PAMPHLET 738-750	
TM 9-1425-646-10	
TM 9-1425-648-13&P	
TM 9-243	

**Replace Intermediate Beam**  
**093-27M-1065**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, a intermediate beam, DA Form 2404, one 27M MLRS repairer, one 13M MLRS crewmember to assist as required, a 27M shop set and tool kit, a manila rope, two 4-inch by 4-inch by 5-foot wood supports, a HEMTT wrecker and an operator, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and a DA Pamphlet 738-750.  
**Note:** This task may be performed in an NBC environment.

**Standards:** The intermediate beam was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**Evaluation Preparation:** Setup: Have the hoist carriage removed (Task 093-27M-1071).

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the intermediate beam and corrected any defects.	—	—
2. Removed the W75 or W76 cable assembly.	—	—
3. Removed the defective intermediate beam.	—	—
4. Installed the replacement intermediate beam.	—	—
5. Installed the W75 or W76 cable assembly.	—	—
6. Verified that the intermediate beam was operational.	—	—
7. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- DA FORM 2404
- DA PAMPHLET 738-750
- TM 9-1425-646-10
- TM 9-1425-648-13&P
- TM 9-243

**Related**



**Replace Boom-In/Boom-Out Limit Switch  
093-27M-1067**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, a boom-in limit switch, DA Form 2404, one 27M MLRS repairer, one 13M MLRS crewmember to assist as required, a 27M shop set, a 27M tool kit, a 8050A digital multimeter, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and a DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The boom-in/boom-out limit switch was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Comply with unit/shop SOP requirements for disposal of scrap metal.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the boom-in/boom-out limit switch and corrected any defects.	—	—
2. Extended the boom manually.	—	—
3. Removed the faulty boom-in/boom-out limit switch.	—	—
4. Installed the replacement boom-in/boom-out limit switch.	—	—
5. Adjusted the boom-in/boom-out limit switch.	—	—
6. Verified that the boom-in/boom-out limit switch was operational.	—	—
7. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM0702
DA PAMPHLET 738-750	MM0703
TM 9-1425-646-10	MM0704
TM 9-1425-648-13&P	MM0705
TM 9-243	MM0706
	MM0707
	MM4806

**Replace Boom Extension Actuator  
093-27M-1069**

**Conditions:** Perform this task given an armored vehicle-mounted M270 Rocket Launcher, a boom extension actuator, DA Form 2404, one 27M MLRS repairer and one 13M MLRS crewmember to assist as required, a 27M shop set and tool kit, lockwire, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, DA Pamphlet 738-750. Note this task may be performed in an NBC environment.

**Standards:** The boom extension actuator was replaced according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the boom extension actuator and corrected any defects.	—	—
2. Removed the damaged boom extension actuator.	—	—
3. Measured and recorded the distance from the ballnut drive to the edge of the actuator gear housing.	—	—
4. Installed the replacement boom extension actuator.	—	—
5. Measured the gap between the forward pull collar and the support assembly.	—	—
6. Verified that the boom extension actuator was operational.	—	—
7. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- DA FORM 2404
- DA PAM 738-750
- TM 9-1425-646-10
- TM 9-1425-648-13&P
- TM 9-243

**Related**

**Remove Rocket Pod Hoist Carriage Assembly  
093-27M-1071**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, one 27M MLRS repairer, one 13M MLRS crewmember to assist as required, a HEMTT wrecker and an operator, a 27M tool kit, a manila rope, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and a DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The rocket pod hoist carriage assembly was removed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**CAUTION!**

Use only a few drops of lubricating oil to loosen screws, nuts, and bolts. Use rags to contain any excess oil or grease. Handle disposal of hazardous materials and hazardous waste (such as, ethylene glycol, brake fluid, oil, grease, solvents, and contaminated rags) IAW unit Standing Operating Procedures (SOP)/Operations Orders (OPORDs), local regulations, and/or host nation laws.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the rocket pod hoist carriage assembly and corrected any defects.	___	___
2. Extended the intermediate beam manually.	___	___
3. Removed the boom extension actuators.	___	___
4. Removed the flexible cable.	___	___
5. Secured the intermediate beams in position.	___	___
6. Completed maintenance forms, if required.	___	___

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM4806
DA PAMPHLET 738-750	
TM 9-1425-646-10	
TM 9-1425-648-13&P	
TM 9-243	

### Install Rocket Pod Hoist Carriage Assembly

**093-27M-1072**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, a rocket pod hoist carriage assembly, DA Form 2404, one 27M MLRS repairer, one 13M MLRS crewmember to assist as required, a HEMTT wrecker and an operator, a 27M tool kit, a manila rope, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and a DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The rocket pod hoist carriage assembly was installed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

#### CAUTION!

Use only a few drops of lubricating oil to loosen screws, nuts, and bolts. Use rags to contain any excess oils or grease. Handle disposal of hazardous materials and hazardous waste (such as, ethylene glycol, brake fluid, oil, grease, solvents, and contaminated rags) IAW unit Standing Operating Procedures (SOP)/Operations Orders (OPORDs), local regulations, and/or host nation laws.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Performed a visual inspection of the rocket pod hoist carriage assembly and corrected any defects.	—	—
2. Performed a forward-end measurement of the rocket pod hoist carriage assembly.	—	—
3. Performed side measurements of the intermediate beam.	—	—
4. Secured the flexible cable.	—	—
5. Installed the boom extension actuators.	—	—
6. Positioned the intermediate beam manually.	—	—
7. Measured the flexible cable clearance.	—	—
8. Ensured that the roller assembly supported the flexible cable.	—	—
9. Checked the adjustment of the boom-in limit switch	—	—
10. Checked the adjustment of the boom-out limit switch.	—	—
11. Checked the adjustment of the hoist-up limit switch.	—	—
12. Checked the adjustment of the hoist-down limit switch.	—	—
13. Verified that the rocket pod hoist carriage assembly was operational.	—	—
14. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**  
DA FORM 2404

**Related**  
MM4806

**References**

**Required**

DA PAMPHLET 738-750  
TM 9-1425-646-10  
TM 9-1425-648-13&P  
TM 9-243

**Related**

**Perform Load Test  
093-27M-1073**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, one 27M MLRS repairer, one 13M MLRS crewmember to assist as required, a 27M shop set, a 27M tool kit, two rocket pod test loads, black coating, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and a DA Pam 738-750. Note. The load test is performed either after repair or replacement of the hoist, the hoist cable, the hook and pulley assembly, the hoist carriage assembly, the booms, or it is performed annually. Note: This task may be performed in an NBC environment.

**Standards:** A load test was performed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

**Evaluation Preparation:** Setup: Have the hoist carriage removed (Task 093-27M-1071).

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the rocket launcher and corrected any defects.	—	—
2. Positioned the rocket launcher.	—	—
3. Inspected the cables.	—	—
4. Performed a 125 percent load test.	—	—
5. Performed the final inspection on the rocket pods.	—	—
6. Stenciled the date of the load test on the cage.	—	—
7. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM4806
DA PAMPHLET 738-750	
TM 9-1425-646-10	
TM 9-1425-648-13&P	
TM 9-243	

**Remove Cage Assembly  
093-27M-1074**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, HEMTT wrecker and an operator, three 27M MLRS repairers and one 13M MLRS crewmember to assist as required, 27M shop set and tool kit, hoisting sling, two fabricated elevation actuator supports, manila rope, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pam 735-750. Note: This task may be performed in an NBC environment.

**Standards:** The cage assembly was removed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the cage assembly and corrected any defects.	—	—
2. Unlocked the travel lock.	—	—
3. Removed the transducer shaft-mounting bracket.	—	—
4. Removed the lift switch striker bracket.	—	—
5. Installed the elevation actuator supports.	—	—
6. Lowered the elevation actuator onto the supports.	—	—
7. Performed the inspection procedures.	—	—
8. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	
DA PAMPHLET 738-750	
TM 9-1425-646-10	
TM 9-1425-648-13&P	
TM 9-243	

**Install Cage Assembly**  
**093-27M-1075**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, a cage assembly, DA Form 2404, a HEMTT wrecker and an operator, three 27M MLRS repairers and one 13M MLRS crewmember to assist as required, a 27M shop set and tool kit, a hoisting sling, two fabricated elevation actuator supports, four manila ropes, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pam 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The cage assembly was installed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the cage assembly and corrected any defects.	—	—
2. Installed the elevation actuator supports.	—	—
3. Measured and noted the distance between the turret pivot lugs.	—	—
4. Positioned the cage onto the turret assembly.	—	—
5. Tightened the nut.	—	—
6. Positioned the elevation actuator's rod end manually.	—	—
7. Torqued the actuator rod end bolts.	—	—
8. Installed the cables into the cage.	—	—
9. Installed the cable clamps.	—	—
10. Installed the limit switch striker bracket.	—	—
11. Installed the transducer shaft bracket.	—	—
12. Adjusted the elevation transducer.	—	—
13. Verified that the cage assembly was installed correctly.	—	—
14. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	
DA PAMPHLET 738-750	
TM 9-1425-646-10	
TM 9-1425-648-13&P	
TM 9-243	



**Troubleshoot the Fire Control System (FCS)**

**093-27M-1077**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, a 27M tool kit, a 8050A digital multimeter, breakout boxes, a test cable, two jury struts, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pam 738-750. Note: This task may be performed in an NBC environment.

**Standards:** Troubleshooting procedures on the Fire Control System (FCS) are performed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the FCS and corrected any defects.	—	—
2. Performed troubleshooting procedures on the FCS and isolated the malfunction to a faulty component.	—	—
3. Removed the faulty component.	—	—
4. Installed the replacement component.	—	—
5. Verified that the FCS was operational.	—	—
6. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	MM0702
DA PAMPHLET 738-750	MM0703
TM 9-1425-646-10	MM0704
TM 9-1425-648-13&P	MM0705
TM 9-243	MM0706
	MM0707
	MM4806

**Troubleshoot the Boom Control System**  
**093-27M-1078**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, a 27M tool kit, breakout boxes, a 8050A digital multimeter, a test cable, jury struts, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pam 738-750. Note: This task may be performed in an NBC environment.

**Standards:** Troubleshooting procedures on the boom control system were performed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the boom control system and corrected any defects.	—	—
2. Performed troubleshooting procedures on the boom control system and isolated the malfunction to a faulty component.	—	—
3. Removed the faulty component.	—	—
4. Installed the replacement component.	—	—
5. Verified that the boom control system was operational.	—	—
6. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	
DA PAMPHLET 738-750	
TM 9-1425-646-10	
TM 9-1425-648-13&P	
TM 9-243	

**Troubleshoot the Hoist Assembly**  
**093-27M-1079**

**Conditions:** Perform this task given an armored vehicle-mounted rocket launcher, DA Form 2404, a 27M tool kit, breakout boxes, a 8050A digital multimeter, a test cable, jury struts, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** Troubleshooting procedures on the hoist assembly were performed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the hoist assembly and corrected any defects.	—	—
2. Performed troubleshooting procedures on the hoist assembly and isolated the malfunction to a faulty component.	—	—
3. Removed the faulty component.	—	—
4. Installed the replacement component.	—	—
5. Verified that the hoist assembly was operational.	—	—
6. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- DA FORM 2404
- DA PAMPHLET 738-750
- TM 9-1425-646-10
- TM 9-1425-648-13&P
- TM 9-243

**Related**

**Troubleshoot the Launcher Drive System**  
**093-27M-1080**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, a 27M tool kit, breakout boxes, a 8050A digital multimeter, a test cable, jury struts, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pam 738-750. Note: This task may be performed in an NBC environment.

**Standards:** Troubleshooting procedures on the launcher drive system were performed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the launcher drive system and corrected any defects.	—	—
2. Performed troubleshooting procedures on the launcher drive system and isolated the malfunction to a faulty component.	—	—
3. Removed the faulty component.	—	—
4. Installed the replacement component.	—	—
5. Verified that the launcher drive system was operational.	—	—
6. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	
DA PAMPHLET 738-750	
TM 9-1425-646-10	
TM 9-1425-648-13&P	
TM 9-243	

**Troubleshoot the Position Determining System  
093-27M-1081**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, a 27M tool kit, a 8050A digital multimeter, breakout boxes, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pamphlet 738-750. Note: This task may be performed in an NBC environment.

**Standards:** Troubleshooting procedures on the position determining system were performed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the position determining system and corrected any defects.	—	—
2. Performed troubleshooting procedures on the position determining system and isolated the malfunction to a faulty component.	—	—
3. Removed the faulty component.	—	—
4. Installed the replacement component.	—	—
5. Verified that the position determining system was operational.	—	—
6. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b>	<b>Related</b>
DA FORM 2404	
DA PAMPHLET 738-750	
TM 9-1425-646-10	
TM 9-1425-648-13&P	
TM 9-243	

**Perform System Analysis on the Multiple Launch Rocket System  
093-27M-1082**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, a 27M tool kit, a 8050A digital multimeter, breakout boxes, jury Struts, a test cable, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pam 738-750. Note: This task may be performed in an NBC environment.

**Standards:** System analysis was performed on the MLRS according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a system analysis on the MLRS and identified the faulty component.	—	—
2. Repaired or replaced the faulty component.	—	—
3. Verified that the MLRS was operational.	—	—
4. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- DA FORM 2404
- DA PAMPHLET 738-750
- TM 9-1425-646-10
- TM 9-1425-648-13&P
- TM 9-243

**Related**

**Perform Travel Lock System Adjustment  
093-27M-1083**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, one 27M MLRS repairer and one 13M MLRS crewmember to assist as required, a 27M tool kit, lock wire, TM 9-1425-646-10, TM 9-1425-648-13&P, TM 9-243, and DA Pam 738-750. Note: This task may be performed in an NBC environment.

**Standards:** Travel lock system adjustment was performed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the travel lock system and corrected any defects.	—	—
2. Torqued tube and actuator rigging.	—	—
3. Disconnected hydraulic quick-disconnect from servomotors.	—	—
4. Turned on the Fire Control System (FCS).	—	—
5. Ensured that the actuator runs to a full-extended position and stops.	—	—
6. Turned the FCS off.	—	—
7. Removed the lock wire from actuator jam nut.	—	—
8. Aligned the actuator rod with the torque tube arm.	—	—
9. Replaced the lock wire on the actuator jam nut.	—	—
10. Connected the hydraulic quick-disconnect to the servomotors.	—	—
11. Verified that the travel lock system was operational.	—	—
12. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<b>Required</b> DA FORM 2404 DA PAMPHLET 738-750 TM 9-1425-646-10 TM 9-1425-648-13&P TM 9-243	<b>Related</b> MM4806
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Subject Area 3: Maintain MLRS Test Equipment

**Perform Surveillance Test of the Missile/Launch Pod Assembly  
093-27M-1160**

**Conditions:** Perform this task given a missile test (AN/TSM-207 Missile Monitor Test Device (MMTD)), Missile/Launch Pod Assembly (MLPA), equipment, tools, 27M repairers needed to perform a surveillance test on the M/LPA, DA Form 2415, DA Pam 738-750, SF 368, SF 364, and TM 9-4935-1644-40&P. Note: This task may be performed in an NBC environment.

**Standards:** The surveillance test on the M/LPA was performed according to the technical manuals. Ensured that this task is performed without causing injury to personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the M/LPA and corrected any defects.	—	—
2. Inspected the humidify indicator sight glass for breakage or cracking.	—	—
3. Checked forward and aft covers to ensure that screws were in place and torqued to the required 3.5 to 4.0 Newton's meter.	—	—
4. Inspected all camouflage panels to ensure ratchet fasteners were secured and in place.	—	—
5. Checked to ensure that all slide braces were present and attaching screws were torqued to 2.5 Newton meters at a minimum.	—	—
6. Checked to ensure that all lift/tie-down screws were in place and torqued to the required 57.0 to 70.0 Newton meters.	—	—
7. Performed the Missile Monitor Test Device (MMTD) power-up-confidence function test.	—	—
8. Performed the MMTD self-test function.	—	—
9. Once prompted, took up the MMTD to the M/LPA via cable CX70 and completed final checks.	—	—
10. Completed maintenance forms, if required	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- DA FORM 2415
- DA PAM 738-750
- SF 364
- SF 368
- TM 9-1410-644-40&P
- TM 9-4935-1644-40&P

**Related**



**Troubleshoot the Guided Missile Test Set (AN/TSM 207)**

**093-27M-1162**

**Conditions:** Perform this task given an AN/TSM 207 Guided Missile Test Set (GMTS), DA Form 2404, a 27M shop set and tool kit, a 8050A digital multimeter, TM 9-1410-644-40&P, TM 9-4935-1644-40&P, TM 9-243, and DA Pam 738-750. Note: This task may be performed in an NBC environment.

**Standards:** Troubleshooting procedures on the AN/TSM 207 GMTS were performed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the AN/TSM 207 GMTS and corrected any defects.	—	—
2. Performed troubleshooting procedures on the AN/TSM 207 GMTS and isolated the malfunction to a faulty component.	—	—
3. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- DA FORM 2404
- DA PAM 738-750
- TM 9-1410-644-40&P
- TM 9-243

**Related**

- TM 9-4935-1644-40&P

**Repair the Guided Missile Test Set (AN/TSM 207)**

**093-27M-1164**

**Conditions:** Perform this task given an AN/TSM 207 Guided Missile Test Set (GMTS), DA Form 2404, a 27M shop set and tool kit, TM 9-1410-644-40&P, TM 9-4935-1644-40&P, TM 9-243, and DA Pam 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The AN/TSM 207 GMTS was repaired according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the AN/TSM 207 GMTS and corrected any defects.	—	—
2. Removed the faulty component.	—	—
3. Installed the replacement component.	—	—
4. Verified that the AN/TSM 207 GMTS was operational.	—	—
5. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- DA FORM 2404
- DA PAMPHLET 738-750
- TM 9-1410-644-40&P
- TM 9-243
- TM 9-4935-1644-40&P

**Related**

**Perform Blast Shield Door Adjustment**

**093-27M-1178**

**Conditions:** Perform the task given a launcher, rocket, armored vehicle mounted/MLRS mock-up, DA Form 2404, necessary tools, expendables, TM 9-1425-646-10, TM 9-243, and a TM 9-1425-648-13&P. Note: This task may be performed in an NBC environment.

**Standards:** Performed blast shield door adjustments repairs according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to the equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual check of the blast shield assembly and corrected any defects.	—	—
2. Checked the clearance between door close cam and center of door hinge.	—	—
3. Pulled door forward and measured, in plane of motion of link, for 4.5 to 8.5mm clearance between door and Launch Pod/Container (LP/C) channel.	—	—
4. Re-checked the adjustments between the door and LP/C channel.	—	—
5. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- DA FORM 2404
- TM 9-243
- TM 9-1425-646-10
- TM 9-1425-648-13&P

**Related**

**Troubleshoot the Launcher FCS/LDS Using Maintenance Manager  
093-27M-1179**

**Conditions:** Perform this task given an armored vehicle-mounted M270 rocket launcher, DA Form 2404, a 27M tool kit and shop set, Interactive Electronic Technical Manual (IETM), Soldier's Portable On-System Repair Tool (SPORT), Computerized Built-In Test (CBIT), Maintenance Manager (MM), Launcher Adapter Group (LAG), one 13M, one 27M personnel, TM 9-1055-647-13&P, TM 9-1425-648-13&P, TM 9-243, and DA Pam 738-750. Note: This task may be performed in an NBC environment.

**Standards:** Troubleshooting procedures on the Improved Launcher Mechanical System (ILMS) and the Improved Fire Control System (IFCS) were performed according to the applicable technical manuals. Performed this task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the Improved Fire Control System/Launcher Drive System (IFCS/LDS) and corrected any defects.	—	—
2. Performed troubleshooting procedures with the MM/LAG and isolated the malfunction to a faulty component.	—	—
3. Used IETM as a guide for performing tests within CBIT and MM/LAG.	—	—
4. Removed the faulty component.	—	—
5. Installed the replacement component.	—	—
6. Verified that the IFCS/LDS was operational.	—	—
7. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- DA FORM 2404
- DA PAMPHLET 738-750
- TM 9-1425-648-13&P
- TM 9-243

**Related**

**Remove/Replace Hydraulic Pump Unit  
093-27M-1180**

**Conditions:** Perform this task given an armored rocker launcher, DA Form 2404, a 27M shop set and tool kit, lock wire, hydraulic pump, Soldier's Portable On-System Repair Tool (SPORT), TM 9-243, TM 9-1425-648-13&P, TM 9-1055-647-13&P, and DA Pam 738-750. Note: This task may be performed in a NBC environment.

**Standards:** Removed and replaced the hydraulic pump unit in accordance with technical manuals. Performed the task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the hydraulic pump unit and corrected any defects.	—	—
2. Used the proper Interactive Electronic Technical Manual (IETM) using the SPORT and following the on screen prompts to perform maintenance procedures.	—	—
3. Removed the defective hydraulic pump unit.	—	—
4. Installed the replacement hydraulic pump unit without causing damage to the unit.	—	—
5. Connected the electrical cable W338.	—	—
6. Performed a hydraulic system status check after repairs were completed.	—	—
7. Cycled the M270A1 rocket launcher in azimuth and elevation.	—	—
8. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

<p><b>Required</b> DA FORM 2404 DA PAM 738-750 TM 9-243 TM 9-1055-648-13&amp;P</p>	<p><b>Related</b></p>
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**Remove/Replace Azimuth Drive Unit  
093-27M-1181**

**Conditions:** Perform this task given an armored vehicle-mounted M270A1 rocket launcher, DA Form 2404, DA Form 2407, an azimuth drive unit, 27M shop set and tool kit, caps, and plugs, Soldier's Portable On-System Repair Tool (SPORT), TM 9-1425-646-10, TM 9-1055-647-13&P, TM 9-243, and a DA Pam 738-750. Note: This task may be performed in an NBC environment.

**Standards:** The Azimuth Drive Unit was replaced according to the applicable technical manuals. Performed the task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the azimuth drive unit and corrected any defects.	—	—
2. Noted the position of the X-marks on the base assembly.	—	—
3. Aligned the azimuth geared bearing X-marks with the pinion gear X-mark.	—	—
4. Removed the azimuth drive unit.	—	—
5. Recorded the thickness of the shims on each stud.	—	—
6. Installed the shims replaced bad shims.	—	—
7. Positioned the pinion gear X-mark between the X-marks on the azimuth gear bearing.	—	—
8. Torqued the nuts.	—	—
9. Performed backlash check.	—	—
10. Ensured that the pinion gear and gearing teeth were parallel.	—	—
11. Aligned the azimuth geared bearing X-marks with the X-marks on the base assembly.	—	—
12. Used the SPORT to ensure that system was operating properly.	—	—
13. Verified that the azimuth drive unit was operational.	—	—
14. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**  
DA FORM 2404  
DA FORM 2407  
DA PAM 738-750  
TM 9-243  
TM 9-1425-646-10

**Related**  
DA FORM 2407-1

**Remove/Replace Hydraulic Reservoir Unit  
093-27M-1182**

**Conditions:** Perform this task given an armored vehicle-mounted M270A1 rocket launcher, DA Form 2404, DA Form 2407, 27M shop set and tool kit, a hydraulic reservoir unit, fluid hydraulic, Solder's Portable On-System Repair Tool (SPORT), TM 9-1055-647-13&P, TM 9-243, DA Pam 738-750, and lock wire. Note: This task may be performed in an NBC environment.

**Standards:** Removed and replaced the hydraulic reservoir unit in accordance with all applicable technical manuals. Performed the task without causing injury to self, other personnel, the environment, or damage to equipment.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Performed a visual inspection of the hydraulic reservoir and corrected any defects.	—	—
2. Disconnected hydraulic hoses.	—	—
3. Removed the damage hydraulic reservoir.	—	—
4. Installed the replacement hydraulic reservoir.	—	—
5. Connected the hydraulic hoses.	—	—
6. Bled the hydraulic system, if required.	—	—
7. Verified that the hydraulic reservoir was operational.	—	—
8. Completed maintenance forms, if required.	—	—

**Evaluation Guidance:** Score the soldiers GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**  
DA FORM 2404  
DA FORM 2407  
DA PAM 738-750  
TM 9-243

**Related**  
DA FORM 2407-1

Skill Level 3

Subject Area 4: Maintenance Operations

**Submit a Quality Deficiency Report (QDR)**

**093-SSG-3004**

**Conditions:** Given the requirement to submit a quality deficiency report (QDR) for a serious or recurring maintenance problem. You are given the following items: AR 725-50, DA Form 2404, DA Form 2407, DD Form 173/1, DD Form 1575, DD Form 2332, DA Pam 738-750, SF 368, and TB 43-0001-series for equipment used. This task can be performed in a field or garrison environment.

**Standards:** Identified conditions that indicated a quality deficiency existed, prepared the appropriate report form, and identified and retained QDR exhibits.

**Performance Measures**

	<u>GO</u>	<u>NO GO</u>
1. Identified conditions that indicated a quality deficiency exist.	—	—
a. A condition in or with the equipment, which is dangerous to people, other equipment, or the mission.		
b. An item or equipment that did not work right or last as long as it should because of bad design or materials.		
c. Items that were not within the approved equipment specifications.		
d. Low quality workmanship.		
e. Dangerous situations due to incorrect or missing data.		
f. Maintenance problems.		
g. Conditions that prevented using the equipment.		
h. Repeated problems that took a lot of time and no solution in sight.		
i. Problems requested to be reported by the National Maintenance Point (NMP).		
2. Identified Category I deficiencies.	—	—
a. A defect that may have caused death, injury, or severe job illness.		
b. A defect that would have caused loss or major damage to a weapon system.		
c. A defect that would critically restricted the combat readiness capabilities of the unit.		
3. Sent in a Category I deficiency report.	—	—
a. Prepared SF 368 in accordance with DA Pam 738-750, Chapter 11.		
b. Prepared DD Form 173/1 in accordance with DA Pam 738-750, Chapter 11 (may be phoned in).		
c. Sent message within 48 hours after defect or problem was found.		
d. Kept one copy of the SF 368 until the Army screening point closed the case.		
e. Sent one copy of the SF 368 to the support maintenance activity.		
NOTE Send SF 368 even if - -		
(1) Correspondence indicated the problem was known to exist (unless corrective action is printed in the Equipment Improvement Recommendation and Digest).		
(2) Other units had sent in a QDR on the same problem.		
f. Identified defective equipment as exhibits.		
4. Identified Category II deficiencies (a defect or recommendation that did not meet the criteria for a Category I deficiency).	—	—



**Performance Measures**

GO      NO GO

5. Sent in a Category II deficiency report. \_\_\_\_\_
- a. Prepared SF 368 in accordance with DA Pam 738-750, Chapter 11.
  - b. Prepared DD Form 173/1 in accordance with DA Pam 738-750, Chapter 11.
  - c. Sent a message within 5 days after defect or problem was found.
  - d. Kept one copy of the SF 368 until the Army screening point closed the case.
  - e. Send one copy of the SF 368 to the support maintenance activity.

NOTE: Sent SF 368 even if - -

(1) Correspondence indicates the problem was known to exist (unless corrective action was printed in the Equipment Improvement Recommendation and Digest.

(2) Other units had sent in a QDR on the same problem.

- f. Identified defective equipment as exhibits.

6. Retained QDR exhibits: \_\_\_\_\_
- a. Tagged each exhibit with DD Form 1575, and DD Form 2332 and classified it in a suspended supply condition code in accordance with AR 725-50.
  - b. Ensured exhibits were not taken apart at organizational or support maintenance levels just to see cause of the problem.
  - c. Kept the SF 368 for at least 60 days or until disposition instructions were received from the responsible command.
  - d. Secured and /or segregated exhibits from all other materiel.

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

AR 725-50  
 DA FORM 2404  
 DA FORM 2407  
 DA PAM 738-750  
 DD FORM 1575  
 DD FORM 173/1  
 DD FORM 2332  
 SF 368  
 TB 43-0001-SERIES

**Related**

AR 702-7  
 AR 702-7-1  
 DA PAM 738-751

**Submit Equipment Improvement Recommendation (EIR)****093-SSG-3005**

**Conditions:** You have found a better way to repair a piece of electronic equipment. Submit an equipment improvement recommendation (EIR), given the following items AR 672-20, DA Pam 738-750, DD Form 173/1, and SF 368. This task can be performed in a field or garrison environment.

**Standards:** Prepared the appropriate report forms for a recommended equipment improvement and checked AR 672-20 to see if the EIR qualified as a suggestion.

**Performance Measures**

	<u>GO</u>	<u>NO GO</u>
1. Suggested a method to improve the performance and /or maintenance of equipment.	—	—
a. A condition in or with the equipment, which is dangerous to people, other equipment, or the mission.		
b. An item or piece of equipment that does not work right or last as long as it should because of bad design or materials.		
c. Items that are not within the approved equipment specifications.		
d. Low-quality workmanship.		
e. Dangerous situations due to incorrect or missing data.		
f. Maintenance problems.		
g. Conditions that prevent using the equipment.		
h. Repeated problems that take a lot of time with no solution in sight.		
i. Problems requested to be reported by the National Maintenance Point (NMP).		
2. Identified Category I improvements.	—	—
a. That prevents death, injury, or severe job illness.		
b. That prevents loss or major damage to equipment.		
c. Improvements that would affect the combat readiness capabilities of the unit.		
3. Sent in a Category I equipment improvement recommendation.	—	—
a. Prepared SF 368 in accordance with DA Pam 738-750, Chapter 11.		
b. Prepared DD Form 173/1 in accordance with DA Pam 738-750, Chapter 11 (may be phoned in).		
c. Sent a message within 48 hours after defect or problem was found.		
d. Kept one copy of the SF 368 until the Army screening point closes the case.		
e. Sent one copy of the SF 368 to the support maintenance activity.		
4. Identified Category II recommendation (a recommendation that does not meet the criteria of a Category I equipment improvement recommendation).	—	—
5. Sent in a Category II deficiency report.	—	—
a. Prepared SF 368 in accordance with DA Pam 738-750, Chapter 11.		
b. Prepared DD Form 173/1 in accordance with DA Pam 738-750, Chapter 11 (May be phoned in).		
c. Sent a message within 5 days after defect or problem was found.		
d. Kept one copy of the SF 368 until the Army screening point closes the case.		
e. Sent one copy of the SF 368 to the support maintenance activity.		
6. Checked AR 672-20 to see if the EIR qualified as a suggestion.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

AR 672-20  
DA PAM 738-750  
DD FORM 173/1  
SF 368

**Related**

DA PAM 738-751

**Plan Work Flow  
093-SSG-3006**

**Conditions:** Perform this task given DA Forms 2407 or DA Form 55988-E/job packets with various issue priority designators, a visible index file showing the shop workload summary, and TM 38-L09-11. This task can be performed in a field or garrison environment.

**Standards:** Distributed all DA Forms 2407 or DA Form 5988-E/job packets by issue priority designators, highest priorities first. Ensured the visible index file were up to date, legible, and complete according to TM 38-L09-11.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Arranged the DA Forms 2407/job packets by issue priority designators, highest priorities first.	—	—
2. Used the DA Forms 2407/job packets in the same order to assign jobs to repairers.	—	—
3. Monitored the work as the jobs went through the repair process.	—	—
4. Assigned new jobs to the repairers as they completed the one they were assigned.	—	—
5. Reviewed all paper work within the job packets for completeness.	—	—
6. Updated the visible index file.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

DA FORM 2407  
DA FORM 2407-1  
DA FORM 5990-E  
TM 38-L09-11

**Related**

DA PAM 738-750  
DA PAM 738-751  
FM 4-30.3

**Direct Performance of Preventive Maintenance  
093-SSG-3007**

**Conditions:** Perform this task given personnel to perform preventive maintenance, DA Form 2408-14, DA Form 2404 or DA Form 5988-E, DD Form 314, DA Pam 738-750, DA Pam 738-751, and Vehicle -10 series technical manuals. This task can be performed in a field or garrison environment.

NOTE: All the information from DA Form 2408-14 is now included in DA Form 5988-E.

**Standards:** Performed all preventive maintenance checks and services (PMCS) according to the applicable -10 series technical manuals. Completed DA Form 2404 or DA Form 5988-E, DA Form 2408-14, and DD Form 314 according to DA Pam 738-750 or DA Pam 738-751.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Coordinated with the motor pool section prior to performing section/shop vehicle preventive maintenance checks and services (PMCS).	—	—
2. Reviewed the DD Form 314 and the applicable -10 series technical manuals to conduct weekly vehicle PMCS.	—	—
3. Identified hazards to the environment before starting preventive maintenance.	—	—
4. Assigned jobs and ensured that repairers knew what PMCS must be performed.	—	—
5. Spot-checked the work being performed and ensured that the repairers were using the applicable technical manuals.	—	—
6. Assessed the probability of environmental damage/violations using environmental risk-assessment matrices during preventive maintenance.	—	—
7. Spot-checked corrective actions taken for all defects listed on DA Form 2404.	—	—
8. Coordinated with the maintenance sergeant to repair vehicles requiring services beyond the driver's responsibility. <ul style="list-style-type: none"> <li>a. Ensured the repairer placed a drip pan under any equipment leaking fluids onto the ground.</li> <li>b. Made sure parts for repair, which were not available, were entered on DA Form 5988-E or DA Form 2408-14.</li> </ul>	—	—
9. Checked the DD Form 314 for correctness.	—	—
10. Reported vehicle statuses to section/shop supervisor.	—	—
11. Briefed the chain of command on any observed environmental potential high-risk areas during preventive maintenance.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

DA FORM 2404  
DA FORM 2408-14  
DA FORM 5988-E  
DA PAM 738-750

**Related**

AR 200-1  
DA PAM 200-1  
FM 4-30.3  
TC 3-34.489

**References**

**Required**

DA PAM 738-751

DD FORM 314

**Related**

**Provide Technical Assistance to Repairers**  
**093-SSG-3008**

**Conditions:** Given DA Pam 738-750, DA Pam 738-751, TB 385-4 and a repairer in your electronic/avionic maintenance shop requires technical assistance. This task can be performed in a field or garrison environment.

**Standards:** Provided technical assistance that enabled the repairer to perform the repair procedures correctly.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Determined the type of assistance needed by the repairer, such as isolating the malfunction, repairing the malfunction, or making proper entries on the paperwork.	—	—
2. Reviewed DA Form 2404 or DA Form 5988-E and DA Form 2407 or DA Form 5990-E to determine reason for maintenance or repair.	—	—
3. Verified repairer observed WARNING, CAUTION, and NOTE statements in applicable references and observed all safety precautions.	—	—
4. Reviewed the repair procedures performed by the repairer.	—	—
5. Provided technical assistance to the repairer.	—	—
6. Counseled repairer on areas of technical weakness.	—	—
7. Recommended technical material and training to increase repairer's expertise.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

DA FORM 5988-E  
DA FORM 5990-E  
DA PAM 738-750  
DA PAM 738-751  
TB 385-4

**Related**

DA FORM 2404  
DA FORM 2407

**Perform Initial Inspections**  
**093-SSG-3009**

**Conditions:** Given the applicable technical manuals, equipment to be inspected, DA Form 2404 or DA Form 5988-E, DA Form 2407 or DA Form 5990-E, DA Pam 738-750, and DA Pam 738-751. This task can be performed in a field or garrison environment.

**Standards:** Performed the initial inspection by ensuring that the equipment was repairable according to the applicable technical manuals, all defects had been found, and all maintenance forms were completed according to DA Pam 738-750 or DA Pam 738-751.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Checked submitted paperwork for completeness and accuracy.	—	—
2. Inspected the equipment for physical damage and determined if it was feasible to repair the equipment.	—	—
3. Ensured that operator maintenance had been performed on the equipment.	—	—
4. Inventoried the equipment to ensure that it was complete.	—	—
5. Ensured that all modification work orders (MWOs) had been completed.	—	—
6. Performed self-tests or checks on the equipment if necessary.	—	—
7. Recorded all defects or reasons for rejecting the equipment on DA Form 2404 or DA Form 5899-E.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

DA FORM 2404  
DA FORM 2407  
DA FORM 5988-E  
DA FORM 5990-E  
DA PAM 738-750  
DA PAM 738-751

**Related**

DA PAM 750-1  
FM 4-30.3  
TM 750-245-4



**Perform Final Inspections**  
**093-SSG-3010**

**Conditions:** Given the applicable technical manuals, equipment to be inspected, DA Form 2404 or DA Form 5988-E1, DA Form 2407 or DA Form 5990-E, DA Pam 738-750, and DA Pam 738-751. This task can be performed in a field or garrison environment.

**Standards:** Performed final inspection. Ensured that the equipment was complete according to the applicable technical manuals, all defects identified in previous inspections have been corrected, any additional defects have been recorded on DA Form 2404 or DA Form 5988-E, and all forms were completed according to DA Pam 738-750 or DA Pam 738-751.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Checked the equipment to determine if it was complete and that all defects found on the initial and in-process inspections have been corrected.	—	—
2. Ensured that all forms and records were complete and correct.	—	—
3. Recorded any additional defects on DA Form 2404 or DA Form 5988-E and returned the equipment to production control.	—	—
4. Signed and dated DA Form 2407 or DA Form 5990-E when the equipment passed inspection.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

- DA FORM 2404
- DA FORM 2407
- DA FORM 5988-E
- DA FORM 5990-E
- DA PAM 738-750
- DA PAM 738-751

**Related**

- DA PAM 750-1
- FM 4-30.3
- TM 750-245-4

**Perform In-Process Inspection  
093-SSG-3012**

**Conditions:** Given applicable inspection forms, a repairer performing repairs on equipment, applicable technical manuals, DA Pam 738-750, and DA Pam 738-751. This task can be performed in a field or garrison environment.

**Standards:** Performed in-process inspection. Ensured that the proper tools and equipment were being used and all safety rules and warnings were followed according to the applicable technical manuals. Completed all forms according to DA Pam 738-750 or DA Pam 738-751. Reported inspection results.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Ensured that the proper tools and equipment were used.	—	—
2. Ensured that the proper repair procedures were followed.	—	—
3. Ensured that only authorized repair parts and supplies were used.	—	—
4. Ensured that only authorized repairs were performed on the equipment.	—	—
5. Ensured that only authorized personnel made the repairs.	—	—
6. Ensured that all safety rules and warnings were followed.	—	—
7. Ensured that all forms were filled out correctly.	—	—
8. Made an oral or written report of the inspection to the repair section chief and the quality control section supervisor.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure is performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

DA PAM 738-750  
DA PAM 738-751

**Related**

FM 4-30.3  
TM 750-245-4

## Subject Area 5: Maintenance Management I

**Inspect Section/Shop Safety****093-SSG-3001**

**Conditions:** Perform this task given a requirement to inspect an electronic or avionics maintenance shop area and given the following references: AR 40-5, AR 385-10, DA Pam 40-501, DA Pam 385-1, TB 385-3, TB 385-4, TB MED 523, Unit and local safety standing operating procedures (SOPs), and Unit Safety Checklist. This task can be performed in a field or garrison environment.

**Standards:** Inspection was conducted to ensure that all Army, company, and maintenance shop safety policies, regulations, and local SOPs were followed; all safety hazards were identified; environmental risk assessment to determine high risks areas was performed, and all deficiencies were corrected. Established an inspection schedule regarding what to inspect and how frequently. Recorded deficiencies and recommended corrective actions and retained these reports to check progress. Followed up to ensure deficiencies had been corrected.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Reviewed the Army, company, and maintenance shop safety policies, regulations, and local SOPs.	—	—
2. Ensured that all of the Army safety references and company and maintenance shop SOPs were being followed.	—	—
3. Planned inspections so that all areas were covered periodically. <ol style="list-style-type: none"> <li>a. Identified hazards to the environment prior to the inspection process.</li> <li>b. Assessed the probability of environmental damage/violations using environmental risk-assessment matrices before the inspection process.</li> </ol>	—	—
4. Scheduled the inspection so that normal operations were disrupted as little as possible.	—	—
5. Inspected areas with the greatest potential for accident severity and those having the highest accident frequency more frequently.	—	—
6. Developed a suitable checklist of items to be inspected in accordance with AR 385-10, AR 40-5, DA Pam 40-501, DA Pam 385-1, TB 385-3, TB 385-4, TB MED 523, and maintenance section/shop SOPs.	—	—
7. Inspected the maintenance section/shop to ensure that all test equipment calibration dates were current.	—	—
8. Inspected the maintenance section/shop to ensure that all equipment and benches were properly grounded.	—	—
9. Inspected the maintenance section/shop to ensure that a mounted safety board was present.	—	—
10. Inspected the maintenance section/shop to ensure that rubber floor mats or similar insulating materials were provided for each repair position.	—	—
11. Inspected the maintenance section/shop to ensure that all power attachments, plugs, and connectors were serviceable with no exposed current-carrying parts except the prongs.	—	—
12. Inspected the maintenance section/shop to ensure that all physical and high-voltage hazards had been identified.	—	—

<b>Performance Measures</b>	<u>GO</u>	<u>NO GO</u>
13. Inspected the maintenance section/shop to ensure it was complying with host nation, local, state and federal environmental laws and regulations.	—	—
14. Briefed the chain of command on the results, potential high-risk areas, and recommendations from the safety inspection.	—	—
15. Identified all safety hazards and took corrective action.	—	—
16. Ensured that any deficiencies found were corrected.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

AR 385-10  
 AR 40-5  
 DA PAM 385-1  
 DA PAM 40-501  
 TB 385-3  
 TB 385-4  
 TB MED 523

**Related**

AR 200-1  
 AR 385-40  
 DA PAM 200-1  
 FM 3-04.500  
 FM 4-30.3  
 TB 43-0129  
 TC 3-34.489

**Manage Section/Shop Security  
093-SSG-3002**

**Conditions:** Given AR 190-13, AR 380-5, AR 380-19, AR 380-40, DA Pam 190-51, FM 19-30, and local and unit standing operating procedures (SOPs). This task can be performed in a field or garrison environment.

**Standards:** Ensured that all Army security policies and regulations and the maintenance shop and local SOPs were followed. Identified and reported all security deficiencies and ensured that all deficiencies were corrected.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Reviewed all of the Army security policies and regulations and the maintenance shop and local SOPs.	—	—
2. Ensured a work place risk analysis was performed.	—	—
3. Ensured that physical security policies, regulations, and SOPs were followed.	—	—
4. Ensured that classification and marking policies were followed.	—	—
5. Ensured that all security control policies and regulations were followed.	—	—
6. Ensured that personnel security and signal training policies were followed: <ul style="list-style-type: none"> <li>a. Initial security training and briefing for newly assigned personnel.</li> <li>b. Refresher security training for assigned personnel.</li> <li>c. Procedures for identifying and reporting insecurities.</li> </ul>	—	—
7. Ensured that signal security (SIGSEC) policies and regulations were followed: <ul style="list-style-type: none"> <li>a. Ensured subordinates followed all Army and unit policies and regulations covering communications security (COMSEC) procedures.</li> <li>b. Ensured subordinates followed all Army and unit policies and regulations covering electronic security (ELSEC) procedures.</li> </ul>	—	—
8. Identified and reported all security deficiencies and ensured that all deficiencies were corrected.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

<b>Required</b>	<b>Related</b>
AR 190-13	AR 5-12
AR 380-19	DA PAM 25-380-2
AR 380-40	FM 24-33
AR 380-5	FM 34-60
DA PAM 190-51	FM 4-30.3
FM 3-19.30	

**Maintain Section/Shop Calibration Program  
093-SSG-3003**

**Conditions:** Given the maintenance section/shop calibration program, TB 43-180, TB 750-25, and company SOP. The following resources will be available: DA Form 3758-R, DA Label 80, TMDE master listing for the maintenance section/shop calibration program, and company SOP. This task can be performed in a field or garrison environment.

**Standards:** Maintained a master listing for all calibrated equipment assigned to the maintenance section/shop in accordance with TB 43-180, TB 750-25, and company SOPs. Reviewed the section/shop calibration listing for equipment due calibration on a monthly basis and updated status on all calibration equipment still turned in to the calibration support unit.

<b>Performance Measures</b>	<u>GO</u>	<u>NO GO</u>
1. Identified all equipment listed on section/shop hand-receipts that might require a calibration label:	—	—
a. Test equipment.		
b. Equipment modules.		
c. Dummy loads.		
d. Voltage test probes.		
e. Radiac equipment.		
f. Motor pool equipment.		
g. Power supplies.		
2. Determined which equipment identified was listed in TB 43-180:	—	—
a. Identified equipment-requiring calibration.		
b. Identified equipment for which calibration was not required (CNR).		
3. Prepared DA Form 3758-R if any new equipment not listed in TB 43-180 required calibration.	—	—
4. Maintained a master listing for all calibration items in the maintenance section/shop.	—	—
5. Scheduled equipment for calibration:	—	—
a. Staggered like equipment, when possible, so that there was always equipment available on site.		
b. Assigned a higher priority for critical TMDE when necessary.		
c. Scheduled plug-in modules and accessories for calibration with the major piece of equipment.		
d. Reviewed signature cards and orders, as required locally, to update customer files and for the first appointment.		
6. Prepared CNR labels, as required, for remaining equipment.	—	—
7. Turned in/picked up equipment from the calibration facility:	—	—
a. Turned in equipment with a minimum of accessories and covers.		
b. Obtained signed and dated receipt for equipment.		
c. Inspected equipment for damage and accessories before signing.		
d. Obtained calibration listings when available.		
8. Updated calibration listing:	—	—
a. Verified calibration due dates.		
b. Deleted entries.		
c. Added entries.		
9. Maintained a temporary storage area for calibrate before use (CBU) equipment:	—	—

**Performance Measures****GO**   **NO GO**

- a. Identified CBU equipment as appropriate.
- b. Identified a limited access storage area.
- c. Prepared DA Label 80 for CBU.
- d. Updated calibration listing for CBU items.
- e. Stored equipment until required.
- f. Had equipment calibration prior to use.

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References****Required**

DA FORM 3758-R

DA LABEL 80

TB 43-180

TB 750-25

**Related**

**Write a Standing Operating Procedure (SOP)  
093-SSG-3011**

**Conditions:** Given the unit's old standing operating procedure (SOP), AR 750-1, DA Pam 600-67, FM 4-30.3 (FM 9-43-1), FM 24-16, FM 101-5, and TC 43-4. This task can be performed in a field or garrison environment.

**Standards:** Wrote a standing operating procedure (SOP) that was reviewed by the supervisor/commander and approved by the commander/supervisor. Implemented all recommended changes.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Developed a basic SOP format to ensure it met organization's/element's specific needs and/or requirements for the maintenance facility:	—	—
a. Purpose statement.		
b. Scope statement.		
c. Organization statement.		
d. Conformity statement.		
e. References.		
f. Annex (es).		
2. Included guidance in the SOP on the following as they pertained only to the maintenance facility:	—	—
a. Personnel administration.		
b. Security.		
c. Security and intelligence.		
d. Area security.		
e. Physical security of weapons and property.		
f. Safety program.		
g. Maintenance operations.		
h. Management of Hand receipts.		
i. Standard warnings.		
j. Alert procedures.		
k. Nuclear, biological, and chemical (NBC) warfare.		
l. Defense against nuclear attack.		
m. Logistics.		
n. Motor pool operations.		
o. Motor movement and traffic control.		
p. Tactical operations.		
3. Ensured that all references used were current.	—	—
4. Staffed the draft through the supervisor/commander.	—	—
5. Implemented any approved SOP changes.	—	—
6. Had the final version of the SOP signed by the supervisor/commander.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**  
AR 750-1

**Related**



**References**

**Required**

DA PAM 600-67  
FM 101-5  
FM 24-16  
FM 4-30.3  
TC 43-4

**Related**

**Maintain Property Accountability**  
**093-SSG-3013**

**Conditions:** Perform this task given a quarterly reviewed of all hand receipts with hand-receipt holders in the maintenance section/shop, issued new equipment, and tagged unserviceable equipment for turn-in; AR 25-400-2, AR 710-2, DA Form 2062, DA Pam 710-2-1, Hand receipts, applicable equipment, and applicable technical manuals. This task can be performed in a field or garrison environment.

**Standards:** Issued supplies and equipment to hand-receipt holders while maintaining property and supply accountability.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Notified hand-receipt holders of quarterly inventory.	—	—
2. Reviewed file copies of all hand receipts and signature cards for each maintenance section/shop.	—	—
3. Assembled all new equipment to be issued into separate groups for issuing to hand-receipt holders during the quarterly inventory.	—	—
4. Issued new equipment to hand-receipt holders before inventorying.	—	—
5. Inventoried hand-receipts.	—	—
6. Updated each hand-receipt holder's equipment shortage list as needed.	—	—
7. Ensured that only authorized personnel on the hand-receipt holder signature card signed the hand receipt.	—	—
8. Ensured that all forms were filled out correctly.	—	—
9. Filed hand receipts in appropriate hand-receipt holder files.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

- AR 25-400-2
- AR 710-2
- DA FORM 2062
- DA PAM 710-2-1

**Related**

**Assess Battlefield Damage  
093-SSG-3014**

**Conditions:** Supervise the performance of an organizational maintenance team or a direct support maintenance support team (MST) performing Battlefield Assessment given a disabled vehicle or equipment, repairers to assess the equipment, applicable technical manuals -10, -20, -30, repair parts manuals, tool kits, DA Form 2404 or DA Form 5988-E, DA Form 2407 or DA Form 5990-E, DA Pam 738-750, DA Pam 738-751, DD Form 1577, DD Form 1577-1, DD Form 1577-2, DD Form 1577-3, FM 4-30.3 (FM 9-43-1), and FM 9-43-2. This task can be performed in a field or garrison environment.

**Standards:** Supervised the organizational maintenance team or direct support maintenance support team (MST) that identifies and performs repairs needed to restore a disable piece of equipment to the minimum essential combat capabilities necessary to support a specific combat mission or to enable the equipment to self-recover. Completed all required paper work according to DA Pam 738-750, DA Pam 738-751, FM 4-30.3 (FM 9-43-1), and FM 9-43-2.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Briefed the organizational maintenance team or direct support maintenance support team (MST) on the upcoming mission to assess battlefield damage: <ul style="list-style-type: none"> <li>a. Identified point of contact at unit/site.</li> <li>b. Identified the equipment was to be assessed for battlefield damage.</li> <li>c. Identified the equipment was needed for the upcoming mission.</li> <li>d. Explained Logistics support.</li> <li>e. Planned primary and secondary routes to unit.</li> <li>f. Ensured team received a copy of supported units' radio frequencies and call signs.</li> </ul>	—	—
2. Monitored assigned personnel to the team according to their qualifications and availability to meet the mission needs.	—	—
3. Arranged for transportation to the site.	—	—
4. Ensured that the proper battlefield assessment procedures were followed: <ul style="list-style-type: none"> <li>a. Reviewed the operator/crew assessment and the safety checks made.</li> <li>b. Interviewed the operator/crew if available.</li> <li>c. Conducted visual inspection.</li> <li>d. Performed self-test.</li> <li>e. Tested equipment with the organizational/direct support maintenance equipment.</li> </ul>	—	—
5. Ensured that maintenance support team (MST) provided technical assistance to the organizational maintenance team as required.	—	—
6. Ensured that maintenance support team (MST) prioritized repairs according to battlefield damage time guidelines.	—	—
7. Ensured that all required maintenance forms were filled out correctly in accordance with DA Pam 738-750 and DA Pam 738-751: <ul style="list-style-type: none"> <li>a. DA Form 2404 or DA Form 5988-E.</li> <li>b. DA Form 2407 or DA Form 5990-E.</li> <li>c. DD Form 1577.</li> <li>d. DD Form 1577-1</li> <li>e. DD Form 1577-2</li> <li>f. DD Form 1577-3</li> </ul>	—	—
8. Ensured a system assessment summary was filled out correctly and turned in.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

DA FORM 2404  
DA FORM 2407  
DA FORM 5988-E  
DA FORM 5990-E  
DA PAM 738-750  
DA PAM 738-751  
DD FORM 1577  
DD FORM 1577-1  
DD FORM 1577-2  
DD FORM 1577-3  
FM 4-30.3

**Related**

FM 4-30.3  
TM 750-245-4

**Manage Demand Supported Repair Parts Listed on the Prescribed Load List (PLL)  
093-SSG-3015**

**Conditions:** This task will be conducted during the normal performance of your daily duties within an electronic/avionics maintenance shop. You will manage demand-supported repair parts for an electronic/avionics maintenance shop given the following items: AR 710-2, DA Pam 710-2-1, DA Form 2063-R, DA Form 2064, DA Form 3318, copy of FEDLOG discs, unit's initial mandatory parts list (IMPL), unit's prescribed load list (PLL), and technical part manuals. This task can be performed in a field or garrison environment.

**Standards:** Completed review and corrected the PLL in accordance with the equipment technical parts manual, AR 710-2, and DA Pam 710-2-1 for the electronic/avionic repair parts listed on the PLL.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Reviewed the units prescribed load list (PLL) for electronic/avionics maintenance shop's repair parts.	—	—
2. Verified that the electronic/avionics shop's repair parts qualify to be on the PLL list.	—	—
3. Reviewed demand-supported unit maintenance repair parts documents and ensured they met the following: <ul style="list-style-type: none"> <li>a. Three demands were made within the control period of 180 days for active army.</li> <li>b. Parts are essential and have a maintenance use code of "O". (Except for non-tactical telecommunications systems, air traffic control, or lifesaving systems).</li> </ul>	—	—
4. Reviewed non-demand-supported unit maintenance repair parts documents and ensured they met the following: <ul style="list-style-type: none"> <li>a. Approved by the first general officer staff level in the chain of command is required in order to stock?</li> <li>b. Parts essential and has a maintenance use code of "O". (Except for non-tactical telecommunications systems, air traffic control, or lifesaving systems).</li> </ul>	—	—
5. Reviewed the initial stockage of repair parts for newly introduced end items as identified by support list allowance card (SLAC) deck: <ul style="list-style-type: none"> <li>a. The stockage level will not be reduced the first year.</li> <li>b. If the end item is under warranty, the one-year will begin on expiration of warranty.</li> </ul>	—	—
6. Reviewed the mandatory stockage of repair parts as identified in the initial mandatory parts list (IMPL).	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**  
AR 710-2  
DA FORM 2063-R  
DA FORM 2064  
DA FORM 3318

**Related**  
FM 4-30.3

**References**

**Required**

DA PAM 710-2-1

FEDLOG

**Related**

**Monitor Bench Stock Operations  
093-SSG-3016**

**Conditions:** Perform this task given AR 710-2, DA Pam 710-2-2, and a copy of FEDLOG discs. This task can be performed in a field or garrison environment.

**Standards:** Maintained bench stock in according with AR 710-2 and DA Pam 710-2-2.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Ensured that the bench stock was made up of low-cost expendable items.	—	—
2. Ensured that the bench stock was stored near the work area.	—	—
3. Ensured that bench stock replenishment tags and lists were maintained with the bench stock.	—	—
4. Ensured that bench stock was ordered on a prescribed schedule or as needed.	—	—
5. Ensured that the bench stock was ordered under the correct Urgency of Need Designator (UND).	—	—
6. Ensured that the bench stock was reviewed semiannually.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

AR 710-2  
DA PAM 710-2-2  
FEDLOG

**Related**

**Monitor Shop Stock Operations  
093-SSG-3017**

**Conditions:** Perform this task given a current copy of the shop stock list, AR 710-2, DA Pam 710-2-2, and a copy of FEDLOG discs. This task can be performed in a field or garrison environment.

**Standards:** Maintained the shop stock according to AR 710-2 and DA Pam 710-2-2.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Ensured repair parts and consumables listed on the shop stock met the criteria listed in AR 710-2 and DA Pam 710-2-2.	—	—
2. Ensured each item was demand-supported.	—	—
3. Ensured stockage levels were developed in accordance with DA Pam 710-2-2.	—	—
4. Ensured excess stocks were turned in within 10 days of review.	—	—
5. Ensured replenishment of stock was based on the reorder point (ROP).	—	—
6. Ensured controlled cryptographic item (CCI) repair parts required by Communications Security (COMSEC) maintenance activities for diagnostic purpose were hand receipted on temporary loan.	—	—
7. Ensured the shop stock was inventoried during the scheduled review period.	—	—
8. Ensured the shop stock list was signed by the unit commander and submitted to the supply support activity (SSA).	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**  
AR 710-2  
DA PAM 710-2-2  
FEDLOG

**Related**



**Inspect Maintenance Support Team Operations  
093-SSG-3019**

**Conditions:** Perform this task given the necessary personnel to perform an electronic/avionics maintenance support team operation, DA Pam 611-21, DA Pam 738-750, DA Pam 738-751, and FM 4-30.3 (FM 9-43-1). This task can be performed in a field or garrison environment.

**Standards:** Ensured the correct military occupational specialty holders are assigned to a support team, briefed, and provided with transportation.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Monitored assigned personnel according to their qualifications and availability.	—	—
2. Arranged for transportation to the site.	—	—
3. Briefed the support team on mission requirements.	—	—
a. Identified point of contact at unit.		
b. Identified equipment needed for the support mission.		
c. Explained logistics support.		
d. Planned primary and secondary routes to unit.		
e. Ensured team received a copy of supported units' radio frequencies and call signs.		
4. Provided technical assistance to the support team as required.	—	—
5. Ensured that all maintenance forms were filled out correctly.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

DA PAM 611-21  
DA PAM 738-750  
DA PAM 738-751  
FM 4-30.3

**Related**

FM 21-26  
STP 21-1-SMCT  
STP 21-24-SMCT

**Inspect Maintenance Reporting and Management Data  
093-SSG-3020**

**Conditions:** As a senior repairer, one of your responsibilities is to inspect the paperwork used in an electronic/avionics maintenance facility. You must inspect and manage all of the maintenance forms and records used in reporting the maintenance status for equipment repaired in the maintenance facility. The following forms, records and publications will be available if needed for each piece of equipment job-ordered: DA Form 2402, DA Form 2404, DA Form 2405, DA Form 2407, DA Form 2407-1, DA Form 2408-12, DA Form 2408-13, DA Form 2408-13-1, DA Form 2410, DD Form 1574, DD Form 1574-1, DD Form 1575, DD Form 1575-1, DD Form 1576, DD Form 1576-1, DD Form 1577, DD Form 1577-1, DD Form 1577-2, DD Form 1577-3, DA Pam 738-750, and DA Pam 738-751. This task can be performed in a field or garrison environment.

**Standards:** Inspected the electronic/avionics maintenance forms and records for errors and forms missing from the job packets.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Located closed-out and active job order packets within the electronic/avionics maintenance facility.	—	—
2. Matched all job-ordered equipment serial numbers with closed-out and active job packets within the electronic/avionics maintenance facility.	—	—
3. Ensured that all required forms and records were in the job order packets.	—	—
4. Verified all forms and records within the job packets were properly completed.	—	—
5. Ensured that all discrepancies had been corrected.	—	—
6. Ensured that all forms and reports were distributed or filed in accordance with Department of Army Pamphlets and Army Regulations.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

- DA FORM 2402
- DA FORM 2404
- DA FORM 2405
- DA FORM 2407
- DA FORM 2407-1
- DA FORM 2408-12
- DA FORM 2408-13
- DA FORM 2408-13-1
- DA FORM 2410
- DA PAM 738-750
- DA PAM 738-751
- DD FORM 1574
- DD FORM 1574-1
- DD FORM 1575
- DD FORM 1575-1
- DD FORM 1576
- DD FORM 1576-1

**Related**

- FM 4-30.3
- TM 38-L09-11

**References**

**Required**

DD FORM 1577  
DD FORM 1577-1  
DD FORM 1577-2  
DD FORM 1577-3

**Related**

**Review SAMS-1 Reports  
093-SSG-3021**

**Conditions:** Perform this task given SAMS-1 system installed, completed set of required SAMS-1 reports and forms, AISM 25-L21-AHN-ZZZ-EM, DA Pam 738-750, DA Pam 738-751, and FM 4-30.3 (FM 9-43-1). This task can be performed in a field or garrison environment.

NOTE: This task may be performed in an NBC environment.

**Standards:** Reviewed all required SAMS-1 reports and forms and corrected discrepancies according to AISM 25-L21-AHN-ZZZ-EM and DA Pam 738-750 or DA Pam 738-751. Filed all reports properly and forwarded copies as required.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Ensured that all required SAMS-1 reports and forms required for electronic/avionics maintenance operations were being used.	—	—
2. Reviewed new copies of all SAMS-1 reports and forms needed to run the electronic/avionics maintenance operations.	—	—
3. Compared the previous SAMS-1 reports and forms with the newly printed reports and forms for discrepancies.	—	—
4. Reviewed the new SAMS-1 reports and forms for discrepancies.	—	—
5. Ensured that all discrepancies were corrected.	—	—
6. Ensured that all SAMS-1 reports and forms were distributed or filed in accordance with Army regulations.	—	—

**Evaluation Guidance:** Score the soldier Go if all performance measures are performed correctly. Score the soldier No Go if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

AISM 25-L21-AHN-ZZZ-EM  
DA PAM 738-750  
DA PAM 738-751  
FM 4-30.3

**Related**

Skill Level 4

Subject Area 6: Maintenance Management II

**Manage a Shop Security Program**

**093-SFC-4101**

**Conditions:** Given local standing operating procedures (SOP), pencil or pen, AR 190-13, AR 190-51, AR 380-19, AR 530-1, and FM 19-30. This task can be performed in a field or garrison environment.

**Standards:** Review shop security program and make any required corrective action.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Enforced Physical Security	_____	_____
a. Determined shop's mission essential or vulnerable areas (MEVA). (AR 190-13, SOP)		
b. Determined minimum-security standard. (AR 190-51)		
c. Identified physical and procedural measures in shop security program. (FM 3-19.30)		
d. Evaluated physical and procedural measures needed to maintain minimum security standard. (FM 3-19.30)		
e. Implemented needed changes to shop security program. (AR 190-51)		
2. Enforced Information System Security (AR 380-19, SOP)	_____	_____
a. Identified need for INFOSEC.		
b. Identified threat to Information Systems.		
c. Identified malicious logic and how it enters into systems.		
d. Identified differences in handling classified and unclassified information.		
e. Identified roles and responsibilities.		
3. Implemented Operational Security measures (AR 530-1, SOP)	_____	_____
a. Ensured compliance with regulatory guidance.		
b. Demonstrated knowledge of OPSEC principles.		

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

**References**

**Required**  
 AR 190-13  
 AR 190-51  
 AR 380-19  
 AR 530-1  
 FM 3-19.30  
 SOP

**Related**  
 AR 380-15  
 AR 380-40  
 DA PAM 190-51  
 FM 4-30.3  
 SF 700  
 SF 702  
 TB 380-41

**Prepare input to Materiel Condition Status Report  
093-SFC-4103**

**Conditions:** Given AR 220-1, AR 700-138, DA Form 2406, DA Form 3266-1, DA Form 3266-2-R, DA Pam 738-750, paper, and pencil or pen. You also have access to data from DA Form 5986-E and DA Form 5990-E or equivalent (DD Form 314, DA Form 2407). This task can be performed in a field or garrison environment.

**Standards:** Prepare the Materiel Status Report correctly using 700-138.

**Performance Measures**

GO      NO GO

1. Prepared input to DA Form 2406 (Materiel Condition Status Reports)
  - a. Completed blocks 1 through 8. (Refer to AR 700-138)
  - b. Completed columns 9a through 9e(3)(b). (Refer to AR 700-138 and maintenance forms)
  - c. Completed columns 9f(l) through 9f(5) as locally prescribed.
  - d. Completed block 10 as locally required.
  - e. Completed block 11 (REMARKS) as required.
  - f. Submitted for commander's signature.
  - g. Completed block 12(b).

\_\_\_\_\_

NOTE: Ensure the date the report is signed is entered.

2. Prepared input to DA Form 3266-1 (Army Missile Materiel Readiness Report)
  - a. Entered applicable system operational data in Part 1. (Refer to AR 700-138)
  - b. Entered data on missile equipment that was NMC during the reporting period in Part 2.
  - c. Entered data on missile equipment that was NMC at the close of the reporting period in Part 3.
  - d. Reviewed the form and corrected any errors.
  - e. Submitted the completed DA Form 3266-1 to the correct agency.

\_\_\_\_\_

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

**References**

**Required**

- AR 220-1
- AR 700-138
- DA FORM 2406
- DA FORM 3266-1
- DA FORM 3266-2-R
- DA PAM 738-750

**Related**

- DA FORM 2407
- DD FORM 314

**Manage SAMS-1 System Administration  
093-SFC-4104**

**Conditions:** Given SAMS-1 end user manual, local SOP, and TC 43-4. This task can be performed in a field or garrison environment.

**Standards:** Review SAMS-1 administrative procedures for compliance with SAMS-1 end user manual and take required corrective action.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Ensured the system access roster is current. (AISM 25-L21-AHN-ZZZ-EM, TC 43-4)	—	—
2. Determined who is the SAMS-1 system senior operator.	—	—
3. Identified the SAMS-1 problem-reporting procedures.	—	—
4. Identified SAMS-1 data backup procedures.	—	—
5. Ensured the shop/personnel database is current.	—	—

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

**References**

**Required**

AISM 25-L21-AHN-ZZZ-EM  
SOP  
TC 43-4

**Related**

AR 380-19  
DA PAM 25-1-1  
DA PAM 738-750

**Manage Hand Receipt Functions**  
**093-SFC-4105**

**Conditions:** Given local SOP, pencil and paper, AR 25-400-2, AR 735-5, DA Pam 2062, DA Form 25-30, DA Pam 25-380-2, DA Pam 710-2-1, TB 380-41, and commander's guidance. This task can be performed in a field or garrison environment.

**Standards:** Attain 100% accountability IAW DA Pam 710-2-1.

**Performance Steps**

1. Prepare for inventory. Review the hand receipt (HR) before beginning the inventory to see the type of items to be inventoried. If unfamiliar with the type of equipment, select personnel to assist in the inventory. Check with the commander/supervisor for any special instructions before starting the inventory. Review DA Pam 25-30 to ensure the most current supply catalogs, component lists, technical manuals, and other related publications are used during the inventory. In the event the most current publications are not on hand, they will be placed on order. The inventory will be conducted with the references on hand and a memorandum will be prepared stating the procedures used for the inventory if applicable. Verify facilities and space are available to conduct the inventory. Notify sub-hand receipt holders of when and how the inventory will be conducted.
2. Conduct inventory. Check all items to make sure their NSN, model, and their description on the HR match. Make a list of any differences. Visually check the condition of the property. Make a list of any damaged equipment. Report damaged equipment to unit maintenance personnel for repair. Ensure the on-hand quantity and quantity on the HR match. Make a list of any overages and shortages. Use the proper TM or SC to identify components of end items. Make a list of any overages and shortages. Serial numbers on the HR should match those on the item. All open maintenance requests must be checked with the supporting maintenance facility. Report any discrepancies to the accountable officer.
3. Conduct post-inventory procedures. Inform the commander of inventory results. Provide copy of all discrepancies discovered during the inventory to accountable officer. Make sure that component shortages are listed on HR shortage annexes. Request shortages not already on order. Turn in overages according to local procedures.
4. Sub-hand-receipt property to user. Appoint sub-hand receipt users. Prepare separate HR for installation and organizational property. Prepare DA Form 2062 or equivalent in two copies to sub-hand-receipt property. The person transferring the property keeps the original, the copy is provided to the person receiving the property.
5. File HR according to AR 25-400-2. File HR and sub-hand receipt according to AR 25-400-2, as applicable.
6. Maintain HR and files. Regularly inventory property IAW applicable standard (e.g. monthly, quarterly, etc). Keep all copies of HR and sub-hand receipts current. Upon receipt of the current publication, conduct an inventory to determine any overages or shortages. Overages will be turned in. Shortages will be accounted for IAW DA Pam 710-2-1 or AR 735-5, as appropriate. Shortage of CCI/COMSEC items also requires the initiation of an insecurity report per DA Pam 25-380-2 or TB 380-41. Submit requests for issue to replace any shortages.

**Performance Measures**

	<u>GO</u>	<u>NO GO</u>
1. Prepared for inventory. (DA Pam 710-2-1)	—	—
2. Conducted inventory.	—	—
3. Performed post-inventory procedures.	—	—



**Performance Measures**

	<u>GO</u>	<u>NO GO</u>
4. Sub-hand-receipted property to user.	—	—
5. Filed HR IAW AR 25-400-2.	—	—
6. Maintained HR and files.	—	—

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

**References**

**Required**

- AR 25-400-2
- AR 735-5
- DA FORM 2062
- DA PAM 25-30
- DA PAM 25-380-2
- DA PAM 710-2-1
- TB 380-41

**Related**

- AR 710-2
- DA FORM 2765-1
- DA FORM 3161
- SOP

**Manage Maintenance Shop Operations  
093-SFC-4106**

**Conditions:** Given local SOP, AR 710-2, DA Pam 710-2-2, DA Pam 738-750, FM 4-30.3, commander's guidance, and unit mission. This task will be performed in a field or garrison environment.

**Standards:** Accomplish all required maintenance tasks IAW procedures in required references.

**Performance Steps**

1. Review maintenance control procedures. Assign work to shop sections to keep all sections working at optimum capacity. Screen maintenance requests to determine appropriate level of maintenance. Screening may show that unit level maintenance has not been done or that evacuation of an item is needed. Keep abreast of the status and quantity of work in each section to prevent overload. Aggressively pursue repair parts, which are not readily available.
2. Review production control procedures. Production methods in a maintenance unit include the on-site, bay shop, bench shop, and production line methods. Select the most efficient method of repairing based on available equipment, facilities, and time. Ensure work order status files are maintained.
3. Review quality control procedures. Accurate initial, in-process, and final inspections are vital in maintaining efficient shop operations and ensuring quality repairs. Initial inspection is used to determine tools, personnel, parts, cost, etc, needed to accomplish repair. Shop supervisory personnel to ensure work is being performed properly perform in-process inspections. Final inspections verify the adequacy of repairs and require a technical inspection of the item. Ensure production control procedures are current and valid.
4. Review workflow process. Work should be assigned to appropriate section and repairperson based on MOS, technical ability, certification and/or training. Observe workflow to ensure item is assigned to appropriate section and repairperson.
5. Review job evacuation procedures. Evacuation of backlogged maintenance requests may allow equipment to be repaired and returned to the using unit in a timelier manner. Determine evacuation decision based on initial inspection, current or projected workload, availability of tools/personnel, and required level of repair.
6. Review maintenance management tools and techniques. SAMS is the primary tool used for maintenance management. Analysis of maintenance printouts will reveal trends/situations, which require action. Examples of problems to watch out for are: significant increases in shop input, excessive number of jobs awaiting parts, and low production. Review submission of daily man-hour accounting and/or status changes as appropriate.
7. Review ORF procedures. ORF is a quantity of selected items authorized for stockage at maintenance facilities to extend their capabilities to respond to the material readiness requirements of supported units. This is done by providing supported activities with serviceable replacements from ORF when like items of equipment can not be repaired or modified in time to meet operational requirements. Ensure procedures are current and valid.

**Performance Measures**

	<u>GO</u>	<u>NO GO</u>
1. Enforced maintenance control procedures. (FM 4-30.3, DA Pam 738-750, SOP)	—	—
2. Enforced production control procedures.	—	—
3. Enforced quality control procedures.	—	—

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
4. Controlled workflow process.	—	—
5. Enforced job evacuation procedures.	—	—
6. Reviewed maintenance management tools and techniques for trends/situations, which require action.	—	—
7. Enforced ORF procedures. (AR 710-2, DA Pam 710-2-2, FM 9-43-1, SOP)	—	—

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

**References**

**Required**

AR 710-2  
 DA PAM 710-2-2  
 DA PAM 738-750  
 FM 4-30.3  
 SOP

**Related**

AISM 25-L21-AHN-ZZZ-EM  
 AR 750-1  
 DA PAM 710-2-1  
 DA PAM 750-1  
 TC 43-4

**Manage Logistics Support  
093-SFC-4107**

**Conditions:** Given local SOP, AR 750-1, DA Pam 738-750, and FM 4-30.3. You also have access to the OPORD, Material Condition Status Report (MCSR), shop stock, bench stock, and SAMS reports. This task can be performed in a field or garrison environment.

**Standards:** Plan logistics support for maintenance operations that anticipate requirements for personnel, equipment, repair parts and the effective use of these resources.

**Performance Steps**

1. Identify support requirements. Review appropriate documents to identify requirements. These may include local SOPs, OPORDs, and others. Determine information such as; type/number of supported units, and type/number of supported equipment. If available, also review BDAR and material condition status reports.
2. Identify available resources. Identify the resources on hand and the resources already committed after the support requirements have been determined. Assets to consider include: personnel, parts, tools, TMDE, publications, and transport capabilities. Other assets to consider include: ORF, facilities, location of MSTs, UMCPs, MCPs, and recovery/evacuations capabilities.
3. Identify other considerations. Other intangibles must be considered when managing support. Other considerations include: command priorities, environmental impact, maintenance workload, exchange/cannibalization policy, weather/terrain conditions, security, safety, certifications/training, tactical situation, and OPTEMPO.
4. Allocate resources. Allocate and organize resources to provide needed support after considering all requirements, resources, and other considerations.

**Performance Measures**

	<u>GO</u>	<u>NO GO</u>
1. Identified support requirements. (AR 750-1, DA Pam 738-750, FM 9-43-1, SOP)	—	—
2. Identified available resources. (FM 4-30.3, SOP)	—	—
3. Identified other considerations.	—	—
4. Allocated resources.	—	—

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

**References**

<b>Required</b>	<b>Related</b>
AR 750-1	FM 100-10
DA PAM 738-750	TB 385-4
FM 4-30.3	TC 43-4
SOP	

**Manage Shop Personnel Actions  
093-SFC-4108**

**Conditions:** Given pencil or pen, paper, local SOP, AR 600-8-10, AR 600-8-19, AR 600-8-22, AR 623-205, AR 635-200, and FM 22-100. This task can be performed in a field or garrison environment.

**Standards:** Manage administrative and personnel actions that impact on shop personnel IAW applicable references.

**Performance Steps**

1. Review recommendation for advancement/promotion to determine eligibility.
2. Review request for Leave/Pass to maintain proper manning level.
3. Review an award recommendation for errors.
4. Review entries on personnel evaluations for errors.
5. Review entries on counseling forms for errors.
6. Identify requirements for administrative separations.

**Performance Measures**

	<u>GO</u>	<u>NO GO</u>
1. Reviewed recommendation for advancement/promotion to determine eligibility. (AR 600-8-19)	—	—
2. Reviewed request for leave/pass to maintain proper manning level. (AR 600-8-10)	—	—
3. Reviewed an award recommendation for errors. (AR 600-8-22)	—	—
4. Reviewed entries on personnel evaluations for errors. (AR 623-205)	—	—
5. Reviewed entries on counseling forms for errors. (FM 22-100)	—	—
6. Identified requirements for administrative separations. (AR 635-200)	—	—

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

**References**

**Required**

- AR 600-8-10
- AR 600-8-19
- AR 600-8-22
- AR 623-205
- AR 635-200
- FM 22-100
- SOP

**Related**

- AR 220-45
- AR 25-50
- DA FORM 638

**Review SAMS-2 Reports  
093-SFC-4109**

**Conditions:** Given commander's intent, local SOP, SAMS-2 end user manual, SAMS-2 reports, and TC 43-4. This task can be performed in a field or garrison environment.

**Standards:** Determine if maintenance performance is within unit's acceptable range of performance.

NOTE: Unit's acceptable range of performance can be found in the unit SOP and/or commander's intent.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Identified reportable and maintenance significant items. (AISM 25-L26-AHO-ZZZ-EM, TC 43-4, SOP)	—	—
2. Identified work orders that are more than thirty days old.	—	—
3. Identified maintenance turnaround time in days by unit/activity.	—	—
4. Identified Operational Readiness Float (ORF) monthly usage and accumulation.	—	—

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

**References**

**Required**

AISM 25-L26-AHO-ZZZ-EM  
SOP  
TC 43-4

**Related**

AISM 25-L21-AHN-ZZZ-EM

**Conduct Site Reconnaissance  
093-SFC-4110**

**Conditions:** Given pencil or pen, paper, lensatic compass, protractor, local SOP, FM 4-30.3, OPORD/OPLAN, map(s) of the surrounding area, stakes or other marking material, and vehicle. This task is performed in a field environment.

**Standards:** Select a satisfactory site and mark it IAW FM 9-43-1, local SOP, and applicable references.

**Performance Steps**

1. Review site reconnaissance requirements. FM 4-30.3, SOP
  - a. Specific requirements for the site are contained in the mission OPORD/OPLAN. Ensure you take note of personnel, equipment, and logistics requirements when preparing for site selection.
  - b. Review local SOP for unit-specific requirements for the site.
2. Select potential site(s) by map reconnaissance. Consider the following areas as a minimum:
  - a. Observation and fields of fire.
  - b. Concealment and cover.
  - c. Obstacles.
  - d. Key terrain.
  - e. Avenues of approach.
3. Evaluate potential site(s) by physical reconnaissance. Evaluation of potential sites must include at a minimum:
  - a. Accessibility. Can the site be reached regardless of the weather or time of year? What must travel the roads/paths? What is the condition of these roads/paths?
  - b. Terrain. Is the site relatively flat and well drained?
  - c. Camouflage/concealment. Does the potential site provide adequate camouflage and concealment?
  - d. Survivability. Can the potential site be adequately defended in case of attack?
  - e. Technical suitability. Is the site location within the range, capabilities, and limitations of the equipment to be deployed?
4. Review marking requirements. Once the best site is selected, the site will be marked for location of equipment and control points. Mark the site IAW local SOP and availability of materials.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO GO</b></u>
1. Determined specific site requirements. (FM 4-30.3, SOP, OPORD/OPLAN) <ol style="list-style-type: none"> <li>a. Personnel.</li> <li>b. Equipment.</li> <li>c. Logistics.</li> </ol>	—	—
2. Selected potential site(s) by using map reconnaissance. <ol style="list-style-type: none"> <li>a. Identified potential sites.</li> <li>b. Identified routes to potential sites.</li> <li>c. Listed best possible candidate sites/routes.</li> </ol>	—	—
3. Evaluated site and route suitability by using physical reconnaissance. <ol style="list-style-type: none"> <li>a. Accessibility.</li> <li>b. Terrain.</li> <li>c. Camouflage/concealment.</li> <li>d. Technical suitability.</li> </ol>	—	—
NOTE: Drive or ride to selected site.		
4. Staked or marked locations for the equipment that pertains to your unit.	—	—

**Performance Measures**

**GO**   **NO GO**

- a. Tents.
- b. Vehicles.
- c. Generators.
- d. Fuel point.
- e. Fire points.
- f. Other points.

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

**References**

**Required**  
FM 4-30.3  
SOP

**Related**  
STP 21-1-SMCT  
STP 21-24-SMCT



**Coordinate Activities between Production Control and Supply Support Activity  
093-SFC-4111**

**Conditions:** Given AR 710-2, DA Pam 710-2-1, DA Pam 710-2-2, and FM 4-30.3.

**Standards:** Account for repair parts IAW AR 710-2, DA Pam 710-2-1, DA Pam 710-2-2, and FM 4-30.3.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Reconciled the movement of parts between production control and supply support activity. (AR 710-2, DA Pam 710-2-1, DA Pam 710-2-2, and FM 4-30.3)	—	—
2. Reconciled the movement of repairable exchange (RX) items between production control and RX.	—	—
3. Reconciled reports from production control and shop supply.	—	—

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

**References**

**Required**

AR 710-2  
DA PAM 710-2-1  
DA PAM 710-2-2  
FM 4-30.3

**Related**

AL9002  
MM3943

**Manage Shop Supply Operations  
093-SFC-4112**

**Conditions:** Given AR 710-2, DA Form 2064, DA Form 3318, DA Pam 710-2-1, DA Pam 710-2-2, and FM 4-30.3.

**Standards:** Maintain shop supply IAW AR 710-2 and DA Pam 710-2-2.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Monitored shop stock operations. (AR 710-2, DA Pam 710-2-1, FM 4-30.3)	—	—
2. Checked the shop stock for the following:	—	—
a. List of items stocked		
b. Reorder point (ROP)		
c. Location		
3. Checked the demand supported shop stock records for the number of records within the control period and other considerations.	—	—
4. Ensured that the demands on the DA Form 3318 and those listed on the DA Form 2064 match.	—	—
5. Compared the physical location with the location listed on the DA Form 3318.	—	—

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

**References**

**Required**

AR 710-2  
DA FORM 2064  
DA FORM 3318  
DA PAM 710-2-1  
DA PAM 710-2-2  
FM 4-30.3

**Related**

DA PAM 738-750

**Provide Liaison to Supported Units  
093-SFC-4113**

**Conditions:** Given AR 750-1, DA Pam 738-750, FM 4-30.3, and direct support (DS) maintenance standard operating procedures (SOP).

**Standards:** Provide liaison support IAW FM 4-30.3 and SOP.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Issued external SOP to supported unit. (FM 4-30.3, SOP, AR 750-1, DA Pam 738-750, SOP)	—	—
2. Coordinated on-site maintenance training.	—	—
3. Identified and coordinated required support maintenance. <ul style="list-style-type: none"> <li>a. Scheduled</li> <li>b. Unscheduled</li> <li>c. Special (CIP, Gunnery, Training Centers, etc.)</li> </ul>	—	—
4. Provided supported unit updated status of open work requests.	—	—

**Evaluation Guidance:** Score the soldiers Go if all performance measures are passed. Score the soldier No-Go if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**  
AR 750-1  
DA PAM 738-750  
FM 4-30.3  
SOP

**Related**

**Manage Operational Readiness Float (ORF) Transactions  
093-SFC-4114**

**Conditions:** Given AR 710-2, AR 750-1, DA Pam 710-2-2, local SOP, maintenance records, ORF equipment, and applicable technical manuals.

**Standards:** Maintain and issue ORF equipment in accordance with required references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO GO</u></b>
1. Maintained ORF equipment. (AR 750-1, AR 710-2)	—	—
a. Ensured that ORF assets are maintained at 10/20 maintenance standard.		
b. Directed the repair of unserviceable ORF assets.		
c. Used highest assigned priority designator for items being repaired for return to ORF stock.		
d. Ensured that appropriate service and maintenance forms are completed.		
2. Coordinated transactions of ORF equipment. (AR 710-2, DA Pam, SOP)	—	—
a. Accounted for ORF assets per AR 710-2 & DA Pam 710-2-2.		
b. Issued assets when priority designator and estimated repair time met established criteria.		
c. Ensured ORF items are exchanged on a one-for-one basis.		
d. Coordinated with supported unit as required.		
e. Ensured that all supply and maintenance forms are completed.		

**Evaluation Guidance:** Score the soldier Go if all performance measures are passed. Score the soldier No-Go if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

AR 710-2  
AR 750-1  
DA PAM 710-2-2  
SOP

**Related**

AR 710-1  
DA FORM 2404  
DA FORM 2407  
DA PAM 710-2-1  
DA PAM 738-750  
DA PAM 750-1  
FM 4-30.3

**APPENDIX A - HANDS-ON EVALUATION (DA FORM 5164-R) INSTRUCTIONS****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.

**Sample DA Form 5164-R (Hands-On Evaluation)**



**APPENDIX B - FIELD EXPEDIENT SQUAD BOOK (DA FORM 5165-R) INSTRUCTION****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.

**APPENDIX B**

**SAMPLE DA FORM 5165-R (FIELD EXPEDIENT SQUAD BOOK)**

FIELD EXPEDIENT SQUAD BOOK <small>For use of this form, see AR 350-57, the proponent agency is ODCSOPS</small>		SHEET  OF																		
USER APPLICATION	SOLDIER'S NAME																			
TASK NUMBER AND SHORT TITLE	STATUS																			
	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO

DA FORM 5165-R, SEP 85

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**Sample DA Form 5165-R (Field Expedient Squad Book)**



## GLOSSARY

### **Section I** **Abbreviations**

<b>ACCP</b>	Army Correspondence Course Program
<b>AIMS</b>	Automated Instructional Management System
<b>AIPD</b>	Army Institute for Professional Development
<b>AIT</b>	advanced individual training
<b>AN</b>	annually
<b>ANCOC</b>	Advanced Noncommissioned Officers Course
<b>AR</b>	Army regulation
<b>AR (1)</b>	Army Reserve
<b>ARTEP</b>	Army Training and Evaluation Program
<b>BA</b>	biannually
<b>BC (1)</b>	boom control
<b>BCT</b>	basic combat training
<b>BNCOC</b>	Basic Noncommissioned Officers Course
<b>BW</b>	biweekly
<b>CBU (1)</b>	calibrate before use
<b>CCI</b>	controlled cryptographic item
<b>CMF</b>	Career management field
<b>CNR</b>	calibration is not required
<b>COMSEC</b>	communications security
<b>CTT</b>	common task test
<b>DA</b>	Department of the Army
<b>DA Pam</b>	Department of the Army pamphlet
<b>DD/DOD</b>	Department of Defense
<b>EIR</b>	equipment improvement recommendation
<b>ELSEC</b>	electronic security

<b>ETM (1)</b>	electronic technical manual
<b>FCS</b>	fire control system
<b>FCU</b>	fire control unit
<b>FEDLOG</b>	Federal Logistics
<b>FM</b>	frequency modulation
<b>FM (1)</b>	field manual
<b>GMTS</b>	guided missile test set
<b>HEMTT</b>	Heavy Expanded Mobility Tactical Truck
<b>IETM</b>	Interactive Electronic Technical Manual
<b>IMPL</b>	initial mandatory parts list
<b>LP/C</b>	launch pod/container
<b>LRU</b>	line replaceable unit
<b>M/LPA</b>	missile/launch pod assembly
<b>METL</b>	mission essential task list
<b>MLRS</b>	multiple launch rocket system
<b>Mm</b>	millimeter
<b>MO</b>	monthly
<b>MOS</b>	military occupational specialty
<b>MST</b>	maintenance support team
<b>MTP</b>	mission training plan
<b>MWO</b>	modification work order
<b>NBC</b>	nuclear, biological, and chemical
<b>NCO</b>	noncommissioned officer
<b>NCOIC</b>	noncommissioned officer in charge
<b>NMC</b>	Non-mission Capable
<b>NMP</b>	national maintenance point
<b>OD</b>	Ordnance (Corps)
<b>OIC</b>	officer in charge

<b>OPORD</b>	operations order
<b>ORF</b>	operation readiness float
<b>P</b>	pass
<b>Pam</b>	pamphlet
<b>PDB</b>	power distribution box
<b>PLL</b>	prescribed load list
<b>PMCS</b>	preventive maintenance checks and services
<b>QA/QC</b>	quality assurance/quality control
<b>QDR</b>	Quality Deficiency Report
<b>QM</b>	Quartermaster
<b>QT</b>	quarterly
<b>ROP</b>	reorder point
<b>RX</b>	reparable exchange
<b>SA (2)</b>	semiannually
<b>SAMS-1</b>	Standard Army Maintenance System-1
<b>SF</b>	standard form
<b>SFC</b>	sergeant first class
<b>SIGSEC</b>	Signal Security
<b>SL</b>	skill level
<b>SLAC</b>	support lift allowance card
<b>SM</b>	soldier's manual
<b>SM/TG</b>	soldier's manual/trainer's guide
<b>SMCT</b>	soldier's manual of common tasks
<b>SOP</b>	standing operating procedure
<b>SPORT</b>	soldier's portable on-system repair tool
<b>SSA</b>	supply support activity
<b>SSG (1)</b>	staff sergeant
<b>STP</b>	soldier training publication

<b>SUST TNG FREQ</b>	sustainment training frequency
<b>SUST TNG SL</b>	Sustainment training skill level
<b>TB</b>	technical bulletin
<b>TB MED</b>	technical bulletin (medical)
<b>TC (1)</b>	training circular
<b>TG</b>	trainer's guide
<b>TM</b>	technical manual
<b>TMDE</b>	test measurement and diagnostic equipment
<b>TNG LOC</b>	training location
<b>TRADOC</b>	(US Army) Training and Doctrine Command
<b>UND</b>	urgency of need designator
<b>WK</b>	weekly

## **Section II**

### **Terms**

#### **Basic Noncommissioned Officer Course (BNCOC)**

Training designed for soldiers in grade E5 to learn the duties of grade E6. Soldiers receive specialized training in their MOS and in related subjects that prepare them to perform duties in a supervisory capacity.

#### **Collective training**

Training, either in institutions or units, which prepares cohesive teams and units to accomplish their missions on the battlefield and in operations other than war.

#### **Common task**

A task every soldier in the Army must learn and perform at some skill level.

#### **Critical task**

See "task," "critical collective task," and "critical individual task."

#### **Cross training**

The systematic training of soldiers on tasks related to another duty position.

#### **Duty Position**

Duty positions are determined by military occupational specialties (MOSs), which are subdivided into five major skill levels (SLs). These SLs are further subdivided into related individual tasks, which identify a soldier's SL or job.

#### **Evaluation guide**

The section of the task summary in a soldier's manual, which lists the pass/fail performance, measures for evaluating the soldier's performance on the task.

**GO, NO GO**

A pass-fail grade you get when you are checked on how well you can do a task. You either pass or fail, that is, GO or NO GO.

**Individual training**

Training that prepares the soldier to perform specified duties or tasks related to assigned duty position or subsequent duty positions and skill level.

**Individual Training Evaluation Program**

The Army's formal system of individual training evaluation, consisting of commander's evaluations, the self-development test, and the common task test

**Integration training.**

The initial entry training in skill level 1 tasks for an individual newly arrived in a unit. The training is limited specifically to tasks associated with the individual organization and equipment of the unit to which the individual is assigned. The unit using training materials supplied by TRADOC, troop schools, or in service or contract mobile training teams may conduct it. In all cases, the TRADOC school proponent supports this training.

**Merger training**

Training that prepares an NCO to supervise one or more different MOSs at lower skill levels when the soldier advances in skill level in his career management field.

**Military occupational specialty**

A group of similar duty positions

**MOS technical task**

A task related to your duty position and skill level.

**Performance measure**

Action or resulting product that determines if the soldier has performed a task correctly.

**Refresher training**

Training that reinforces previous training and/or helps to sustain or regain previously acquired skills and knowledge. Refresher training is related to course-specific training objectives, performed under prescribed conditions, and meets prescribed performance standards. Training may take place in a course during or outside of POI time. It usually takes place in the unit to sustain or retrain a previously required proficiency level or it may be used to prepare an individual for institutional training, i.e., to meet prerequisite training requirements.

**Shared task**

See "task."

**Skill level**

Identifies task proficiency, or ability typically required for successful performance at the grade with which the skill level is associated. The skill levels by grade are shown below: Skill levels => 1 2 3 4 5; Enlisted E 1/2, 3/4, 5, 6, 7, 8/9; Warrant W, 1/2, 3, 4, 5; Officers O 1/2, 3, 4, 5, 6

**Soldier Manual of Common Tasks (SMCT)**

A publication listing the critical tasks for each skill level of an MOS. It provides the performance steps (measures), the condition under which the task is performed, the standards that must be met, and an instrument for evaluating task performance.

**Sustainment training**

The provision of training required to maintain the minimum acceptable level of proficiency required accomplishing a critical task.

**Task**

A clearly defined and measurable activity accomplished by individuals and organizations. It is the lowest behavioral level in a job or unit that is performed for its own sake. It must be specific; usually has a definite beginning and ending; may support or be supported by other tasks; has only one action and, therefore, is described using only one verb; generally is performed in a relatively short time (however, there may be no time limit or there may be a specific time limit); and it must be observable and measurable. The task title must contain an action verb and object and may contain a qualifier. Types: (subsequent entries)

**Task conditions**

The specific circumstances or situations under which a job is done. It lists the people, tools, equipment, environment, and other items necessary to perform the job.

**Task standards**

A description of how well, how completely, how accurately, or how quickly a task must be performed in wartime. Combined standards, such as how well and how quickly a task must be performed, may also be used.

**Task summary**

A listing in the soldiers' training publications of the conditions, standards, and performance measures, references, and proponent for each individual critical task. Information is extracted from the individual critical task analysis. See "Task performance specifications." Reference-dependent task summary--A summary written for those tasks which require the trained soldier to refer to one or more publications while performing all or part of a task in wartime conditions. Reference-independent task summary--A summary written for those tasks which require the trained soldier to perform the task in wartime conditions from memory, without reference to any publications.

**Train up**

The process of increasing the skills and knowledge's of an individual to a higher skill level in the appropriate MOS. It may involve certification.

**Trainer's guide**

A publication that covers the information needed by your commander, training manager, and trainer to plan, conduct, and evaluate training in your MOS. There is a trainer's guide for each MOS.

**Unit training**

Training (individual, collective, and joint or combined) that takes place outside the Army's institutional base.

**REFERENCES**

**Field Manuals**

FM 3-100.4 Environmental Considerations in Military Operations [MCRP 4-11B] 15 June 2000

**Army Regulations**

AR 190-11 Physical Security of Arms, Ammunition, and Explosives (This Item is Included on EM 0001) 30 September 1993

AR 190-13 The Army Physical Security Program (This Item is Included on EM 0001). 30 September 1993

AR 190-51 Security of Unclassified Army Property (Sensitive and Nonsensitive) (This Item is Included on EM 0001) 30 September 1993

AR 220-1 Unit Status Reporting (This Item is Included on EM 0001) 1 September 1997

AR 25-400-2 The Modern Army Record Keeping System (MARKS) (This Item is Included on EM 0001) 1 October 2000

AR 380-19 Information Systems Security (This Item is Included on EM 0001) 27 February 1998

AR 380-40 (O) Policy for Safeguarding and Controlling Communications Security (COMSEC) Material (U) 30 June 2000

AR 380-5 Department of the Army Information Security Program (This Item is Included on EM 0001) 29 September 2000

AR 385-10 The Army Safety Program (This item is included on EM 0001) 23 May 1988

AR 40-5 Preventive Medicine (This Item is Included on EM 0001) 15 October 1990

AR 530-1 Operations Security (OPSEC) 3 March 1995

AR 600-8-10 Leaves and Passes (This Item is Included on EM 0001) 1 July 1994

AR 600-8-19 Enlisted Promotions and Reductions (This Item is Included on EM 0001) 2 October 2000

AR 600-8-22 Military Awards (This Item is Included on EM 0001) 25 February 1995

AR 623-205 Enlisted Evaluation Reporting System (This Item is Included on EM 0001) 31 March 1992

AR 635-200 Enlisted Personnel (This Item is Included on EM 0001) 1 November 2000

AR 672-20 Incentive Awards (This Item is Included on EM 0001) 1 June 1993

AR 700-138 Army Logistics Readiness and Sustainability (This Item is Included on EM 0001) 16 September 1997

AR 710-2 Inventory Management Supply Policy Below the Wholesale Level (This Item is on EM 0001) 31 October 1997

AR 725-50 Requisition, Receipt, and Issue System (This Item is Included on EM 0001) 15 November 1995

AR 735-5 Policies and Procedures for Property Accountability (This Item is Included on EM 0001) 31 January 1998

AR 750-1 Army Materiel Maintenance Policy and Retail Maintenance Operations (This Item is Included on EM 0001) 1 August 1994

AR 750-43 Army Test, Measurement and Diagnostic Equipment Program (This Item Is Included on EM 0001) 28 November 1997

**Department of Army Forms**

DA FORM 2062	Hand Receipt/Annex Number (This Item is Included on EM 0001) 1 January 1982
DA FORM 2063-R	Prescribed Load List 1 January 1982
DA FORM 2064	Document Register for Supply Actions (This Item is Included on EM 0001) 1 January 1982
DA FORM 2402	Exchange Tag 1 December 1985
DA FORM 2404	Equipment Inspection And Maintenance Worksheet (This Item is Included on EM 0001) 1 April 1979
DA FORM 2405	Maintenance Request Register 1 April 1962
DA FORM 2406	Material Condition Status Report 1 April 1993
DA FORM 2407	Maintenance Request 1 July 1994
DA FORM 2407-1	Maintenance Request - Continuation Sheet 1 July 1994
DA FORM 2408-12	Army Aviator's Flight Record (This Item is Included on EM 0001) 1 January 1992
DA FORM 2408-13	Aircraft Status Information Record (This Item is Included on EM 0001) 1 October 1991
DA FORM 2408-13-1	Aircraft Maintenance and Inspection Record (This Item is Included on EM 0001) 1 October 1997
DA FORM 2408-14	Uncorrected Fault Record (This Item is Included on EM 0001) 1 June 1994
DA FORM 2410	Component Removal and Repair/Overhaul Record (This Item is Included on EM 0001) 1 October 1997
DA FORM 3266-1	Army Missile Materiel Readiness Report (This Item is Included on EM 0001) 1 April 1993
DA FORM 3266-2-R	Army Missile Materiel Readiness Report (This Item is Included on EM 0001) 1 April 1993
DA FORM 3318	Records of Demands-Title Insert (This Item is Included on EM 0001) 1 January 1982
DA FORM 3758-R	Calibration and Repair Requirements Worksheet (LRA) (This Item is Included on EM 0001) 1 December 1996
DA FORM 5164-R	Hands-On Evaluation (LRA) (This Item is Included on EM 0001) 1 September 1985
DA FORM 5165-R	Field Expedient Squad Book (LRA) (This Item is Included on EM 0001) 1 September 1985
DA FORM 5988-E	Equipment Inspection Maintenance Worksheet (EGA) 1 March 1991
DA FORM 5990-E	Maintenance Request 1 March 1991

**Department of Army Pamphlets**

DA PAM 190-51	Risk Analysis for Army Property (This Item is Included on EM 0001) 30 September 1993
DA PAM 25-30	Consolidated Index of Army Publications and Blank Forms (ISSUED QUARTERLY)(No Printed Copies Exist)(Formerly DA Pam 310-1)(This Item is Included on EM 0001) 1 April 2001
DA PAM 25-380-2	(O) Security Procedures for Controlled Cryptographic Items 10 January 1991
DA PAM 385-1	Small Unit Safety Officer/NCO Guide 22 September 1993
DA PAM 40-501	Hearing Conservation Program (This Item is Included on EM 0001) 10 December 1998



DA PAM 600-67	Effective Writing for Army Leaders (This Item is Included on EM 0001) 2 June 1986
DA PAM 611-21	Military Occupational Classification and Structure (This Item is Included on EM 0001) 31 March 1999
DA PAM 710-2-1	Using Unit Supply System (Manual Procedures) (Standalone Pub) (This Item is on EM 0001) 31 December 1997
DA PAM 710-2-2	Supply Support Activity Supply System: Manual Procedures (This Item is on EM 0001) 30 September 1998
DA PAM 738-750	Functional Users Manual for The Army Maintenance Management System (TAMMS) (This Item is Included on EM 0001) 1 August 1994
DA PAM 738-751	Functional Users Manual for the Army Maintenance Management System-Aviation (TAMMS-A) (This Item is Included on EM 0001) 15 March 1999
DA PAM 750-1	Leader's Unit Level Maintenance Handbook (This Item is Included on EM 0001) 15 February 1994
DA PAMPHLET 738-750	Functional Users Manual for the Army Maintenance Management System (TAMMS) 1 August 1994

### **Field Manuals**

FM 101-5	Staff Organization and Operations 31 May 1997
FM 22-100	Army Leadership 31 August 1999
FM 24-16	Communications-Electronics Operations, Orders, Records, and Reports 7 April 1978
FM 25-100	Training The Force (This Item is Included on EM 0028) 15 November 1988
FM 25-101	Battle Focused Training (This Item is Included on EM 0028) 30 September 1990
FM 3-19.30	Physical Security (This Item is Included on EM 0028) 8 January 2001
FM 4-30.3	Maintenance Operations and Procedures 1 September 2000

### **Other Product Types**

AISM 25-L21-AHN-ZZZ-EM	Standard Army Maintenance System Level 1(SAMS-1) End User Manual 1 June 1997
AISM 25-L26-AHO-ZZZ-EM	Standard Army Maintenance System Level 2 (SAMS-2) 1 June 1997
DA FORM 2415	Ammunition Condition Report, December 1977.
DA LABEL 80	U.S. Army Calibrated Instrument 1 December 1977
DD FORM 1574	Serviceable Tag - Materiel 1 October 1966
DD FORM 1574-1	Serviceable Label - Materiel 1 October 1966
DD FORM 1575	Suspended Tag - Materiel 1 October 1966
DD FORM 1575-1	Suspended Label - Materiel 1 October 1966
DD FORM 1576	Test/Modification Tag - Materiel 1 October 1966
DD FORM 1576-1	Test/Modification Label - Materiel 1 October 1966
DD FORM 1577	Unserviceable (Condemned) Tag - Materiel 1 October 1966
DD FORM 1577-1	Unserviceable (Condemned) Label - Materiel 1 October 1966
DD FORM 1577-2	Unserviceable (Repairable) Tag - Materiel 1 October 1966
DD FORM 1577-3	Unserviceable (Repairable) Label - Materiel 1 October 1966
DD FORM 173/1	Joint Message Form 1 March 1979
DD FORM 2332	Materiel Deficiency Exhibit 1 May 1984
DD FORM 314	Preventive Maintenance Schedule and Record (This Item is Included on EM 0001) 1 December 1953

FEDLOG S&I Cdr, USAMC Logistics Support 1 October 2000  
SF 364 Report of Discrepancy Report (ROD), February 1980  
SF 368 Product Quality Deficiency Report (This Item is Included on EM 0001) 1  
October 1985

**Technical Bulletins**

TB 380-41 (O) Procedure for Safeguarding, Accounting, and Supply Control of  
COMSEC Material (Reprinted W/Basic Incl C1) 1 October 1994  
TB 385-3 Fire Prevention and Protection: Military Gasoline Cans 7 June 1968  
TB 385-4 Safety Requirements for Maintenance of Electrical and Electronic  
Equipment (This Item is Included on EM 0128) 1 August 1992  
TB 43-0001-SERIES Equipment Improvement Report and Maintenance Digest for Tank,  
Automotive, Armament and Chemical Equipment 1 October 2000  
TB 43-180 Calibration and Repair Requirements for the Maintenance of Army  
Materiel (This Item is Included on EM 0022) 1 December 2000  
TB 750-25 Maintenance of Supplies and Equipment: Army Test, Measurement and  
Diagnostic Equipment (TMDE) Calibration and Repair Support (C&RS)  
Program (This Item is Included on EM 0022) 1 March 1997  
TB MED 523 Control of Hazards to Health from Microwave and Radio Frequency  
Radiation and Ultrasound 15 July 1980

**Technical Manuals**

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) 12  
December 1983  
TM 11-7440-283-12-2 Operator's and Organizational Maintenance Manual for Data Display  
Group, Gun Direction, OD-144 (V) 1/GYK-29 (V), OD-144 (V) 2/GYK-29  
(V), OD-144 (V) 3/GYK-29 (V) (P/O Computer System Gun Direction,  
AN/GYK-29 (V)). 27 September 1982.  
TM 38-L09-11 Functional Users Manual for Maintenance Reporting and Management  
(MRM)(S&I CDR, USALOGC, ATTN: ATCL-SP, FT LEE, VA 23801-  
6000) 4 February 1985  
TM 9-1055-648-13&P Operating and Maintenance Instructions for Operator, Organizational,  
and Direct Support, and Repair Parts and Special Tools List for Improved  
Position Determining System Part NO. 13029700-202 (NSN 1055-01-  
251-9756) (EIC: QBJ) 31 August 1998  
TM 9-1410-644-40&P General Support Maintenance Manual Including Repair Parts and  
Special Tools List and Surveillance for Army TACMS, Guided Missile and  
Launching Assembly: M39 (Block I) (NSN 1427-01-274-3904) (EIC:  
QSD) (PL81) (1427-00-000-0195) (EIC: N/A) 29 December 2000  
TM 9-1425-644-L List of Applicable Publication (LOAP) for Multiple Launch Rocket System  
13 April 2000  
TM 9-1425-646-10 Operator's Manual for Launcher, Rocket, Armored Vehicle, Mounted:  
M270 Part NO. 13029700-201 (1055-01-192-0358) Multiple Launch  
Rocket System (Reprinted W/Basic Incl C1 - 9) 20 June 1984  
TM 9-1425-646-24P Organizational Direct Support and General Support Maintenance Repair  
Parts and Special Tools List (Including Depot Maintenance Repair Parts  
and Special Tools) for Launcher, Rocket, Armored Vehicle Mounted:  
M270 13029700-200 (NG) 31 July 1990  
TM 9-1425-646-L List of Applicable Publication (LOAP) for Multiple Launch Rocket System  
13 April 2000  
TM 9-1425-647-24P Organizational, Direct Support and General Support Maintenance Initial  
Parts List for (Multiple Launcher Rocket System) 1 May 1992

TM 9-1425-647-40-4	General Support Maintenance, Volume IV, with Unit-Under Test Procedures for Boom Controller Assembly, Part No. 13031127 (Multiple Launch Rocket System) (Reprinted W/Basic Incl C1) (NG) 15 February 1989
TM 9-1425-648-13&P	Operator's, Organizational, and Direct Support Maintenance Instructions, Destruction of Materials to Prevent Enemy Use Battlefield Damage Assessment and Repair, Repair Parts and Special Tools List for Multiple Launch Rocket System 15 March 2001
TM 9-1450-646-BD	Battlefield Damage Assessment and Repair for Carrier, MLRS, M993 (NSN 2350-01-091-5405) (This item is included on EM 0062) 18 July 1989
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 InclC1-2) (This Item is Included on EM 0178) 12 December 1983
TM 9-4935-1644-40&P	General Support Maintenance Instructions Repair Parts and Special Tools List for Test Set, Guided Missile: AN/TSM-207 Part Number 13366124 (NSN 4935-01-422-3135) (EIC: QSF) (Army Tactical Missile System) (This Item is Included on EM 0184) 29 December 2000
TM 9-4935-646-14-1	Operator, Organizational, Direct Support and General Support Maintenance Manual MLRS Test Equipment Volume 1 Hydraulic Service Unit 13029784 (NSN 1450-01-137-4442) Hoisting Sling Assembly 13029709 (1055-01-152-8780) MLRS Cable Tester 20 June 1984
TM 9-4935-646-14-2-1	Operator, Organizational, Direct Support and General Support Maintenance Manual for MLRS Test Equipment, Multiple Launch Rocket System): Vol II, Part 1 Hydraulic Servicing Unit 13029784 (NSN 1450-01-137-4442); Hoisting Sling Assembly 11 September 1989
TM 9-4935-646-14-2-2	Operator, Organizational, Direct Support and General Support Maintenance Manual for MLRS Test Equipment Volume II, Part 2 Hydraulic Service Unit 13029784 (NSN 1450-01-137-4442) Hoisting Sling Assembly 13029709 (1055-01-152-8780) 30 April 1986
TM 9-4935-646-14-2-3	Operator's, Organizational, Direct Support and General Support Maintenance Manual for MLRS Test Equipment Volume II, Part 3 Hydraulic Servicing Unit 13029784 (NSN 1450-01-137-4442) Hoisting Sling Assembly 13029709 (1055-01-152-8780) 30 April 1986

#### **Training Circulars**

TC 43-4	Commander's and Shop Officer's Guide for Support Maintenance Management 8 May 1996
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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 Sub-courses**

AL9002	Production Control
AR0609	The Unit Maintenance Program
MM 0702	Basic Electricity Mathematics
MM 0703	Basic Electricity Part I

MM 0704	Basic Electricity Part II
MM 0705	Electronics, Part I
MM 0706	Electronics, Part II
MM 0707	Computer Fundamentals
MM0702	Basic Electricity Mathematics
MM0703	Basic Electricity, Part I
MM0704	Basic Electricity, Part II
MM0705	Electronics, Part I
MM0706	Electronics, Part II
MM0707	Computer Fundamentals
MM3689	Inspecting the MLRS Rocket POD/Container
MM3943	Coordinate Activities Between Repair Section and Technical Supply and Prepare SF 368 (Quality Deficiency Report)
MM4806	Multiple Launch Rocket System and Deep Attack Missile System
OD0454	Unit Maintenance Operation
QM3805	Manage Operational Readiness Float (ORF) Assets
QM7073	Manage the Accountability of Operational Readiness Float (ORF)

**Army Regulations**

AR 200-1	Environmental Protection and Enhancement (This Item is Included on EM 0001) 21 February 1997
AR 220-45	Duty Rosters (This is Included on EM 0001) 15 November 1975
AR 25-50	Preparing and Managing Correspondence (This Item is Included on EM 0001) 5 March 2001
AR 380-15	(OBSOLETE)(C) Safeguarding Classified NATO Information (U) 1 March 1984
AR 380-19	Information Systems Security (This Item is Included on EM 0001) 27 February 1998
AR 380-40	(O) Policy for Safeguarding and Controlling Communications Security (COMSEC) Material (U) 30 June 2000
AR 385-40	Accident Reporting and Records (This Item is Included on EM 0001) 1 November 1994
AR 5-12	Army Management of the Electromagnetic Spectrum 1 October 1997
AR 702-7	Product Quality Deficiency Report Program [DLAR 4155.24; Secnavinst 4855.5A; AFR 74.6] (This Item is Included on EM 0001) 20 July 1993
AR 702-7-1	Reporting of Product Quality Deficiencies Within the US Army (This Item is Included on EM 0001) 15 August 1980
AR 710-1	Centralized Inventory Management of the Army Supply System 1 March 2001
AR 710-2	Inventory Management Supply Policy Below the Wholesale Level (This Item is on EM 0001) 31 October 1997
AR 750-1	Army Materiel Maintenance Policy and Retail Maintenance Operations (This Item is Included on EM 0001) 1 August 1994

**Department of Army Forms**

DA FORM 2404	Equipment Inspection And Maintenance Worksheet (This Item is Included on EM 0001) 1 April 1979
DA FORM 2407	Maintenance Request 1 July 1994
DA FORM 2407-1	Maintenance Request - Continuation Sheet 1 July 1994

**STP 9-27M14-SM-TG  
28 AUGUST 2002**

DA FORM 2765-1 Request for Issue or Turn-in (This Item is Included on EM 0001) 1 April 1976  
DA FORM 3161 Request for Issue or Turn-In (This Item is Included on EM 0001) 1 May 1983  
DA FORM 638 Recommendation for Award (This Item is Included on EM 0001) 1 November 1994

**Department of Army Pamphlets**

DA PAM 190-51 Risk Analysis for Army Property (This Item is Included on EM 0001) 30 September 1993  
DA PAM 200-1 Handbook for Environmental Impact Analysis (GPO SN: 0820-00551-7) (This Item is Included on EM 0001) 1 April 1975  
DA PAM 25-1-1 Installation Information Services 27 August 1991  
DA PAM 25-380-2 (O) Security Procedures for Controlled Cryptographic Items 10 January 1991  
DA PAM 710-2-1 Using Unit Supply System (Manual Procedures) (Standalone Pub) (This Item is on EM 0001) 31 December 1997  
DA PAM 738-750 Functional Users Manual for The Army Maintenance Management System (TAMMS) (This Item is Included on EM 0001) 1 August 1994  
DA PAM 738-751 Functional Users Manual for the Army Maintenance Management System-Aviation (TAMMS-A) (This Item is Included on EM 0001) 15 March 1999  
DA PAM 750-1 Leader's Unit Level Maintenance Handbook (This Item is Included on EM 0001) 15 February 1994

**Field Manuals**

FM 100-10 Combat Service Support 3 October 1995  
FM 21-26 OBSOLETE - Map Reading and Land Navigation 7 May 1993  
FM 24-33 Communications Techniques: Electronic Counter-Countermeasures 17 July 1990  
FM 3-04.500 Army Aviation Maintenance 26 September 2000  
FM 34-60 Counterintelligence 3 October 1995  
FM 4-30.3 Maintenance Operations and Procedures 1 September 2000

**Other Product Types**

AISM 25-L21-AHN-ZZZ-EM Standard Army Maintenance System Level 1(SAMS-1) End User Manual 1 June 1997  
DD FORM 314 Preventive Maintenance Schedule and Record (This Item is Included on EM 0001) 1 December 1953  
SF 700 Security Container Information 1 August 1985  
SF 702 Security Container Check Sheet 1 August 1985  
SOP SOP

**Soldier Training Publications**

STP 21-1-SMCT Soldier's Manual Of Common Tasks Skill Level 1 October 1994  
STP 21-24-SMCT Soldier's Manual Of Common Tasks (SMCT) Skill Level 2-4 1 October 1992

**Technical Bulletins**

TB 380-41 (O) Procedure for Safeguarding, Accounting, and Supply Control of COMSEC Material (Reprinted W/Basic Incl C1) 1 October 1994

STP 9-27M14-SM-TG

TB 385-4 Safety Requirements for Maintenance of Electrical and Electronic Equipment (This Item is Included on EM 0128) 1 August 1992  
TB 43-0129 Safety Requirements for Use of Antenna and Mast Equipment (This Item is Included on EM 0161) 15 June 1986

**Technical Manuals**

TM 38-L09-11 Functional Users Manual for Maintenance Reporting and Management (MRM)(S&I CDR, USALOGC, ATTN: ATCL-SP, FT LEE, VA 23801-6000) 4 February 1985  
TM 750-245-4 Direct Support and General Support for Quality Control Inspector's Inspection Criteria (This Item is Included on EM 0178) 25 January 1971  
TM 9-4935-1644-40&P General Support Maintenance Instructions Repair Parts and Special Tools List for Test Set, Guided Missile: AN/TSM-207 Part Number 13366124 (NSN 4935-01-422-3135) (EIC: QSF) (Army Tactical Missile System) (This Item is Included on EM 0184) 29 December 2000

**Training Circulars**

TC 3-34.489 The Soldier and The Environment 8 May 2001  
TC 43-4 Commander's and Shop Officer's Guide for Support Maintenance Management 8 May 1996

By Order of the Secretary of the Army:

**EIC K. SHISEKI**  
*General, United States Army*  
*Chief of Staff*

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