

**STP 9-63H14-SM-TG**

**Soldier's Manual and Trainer's Guide**

**MOS  
63H**

**TRACKED VEHICLE MECHANIC  
SKILL LEVELS 1, 2, 3, and 4**

September 2008

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# SOLDIER'S MANUAL and TRAINER'S GUIDE

## MOS 63H

### Tracked Vehicle Mechanic

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

#### CONTENTS

	<u>PAGE</u>
<b>Preface</b> .....	<b>v</b>
<b>Chapter 1. Introduction</b> .....	<b>1-1</b>
1-1. General.....	1-1
1-2. Task Summaries .....	1-2
1-3. Soldier's Responsibilities.....	1-2
1-4. NCO Self-Development and the STP.....	1-3
1-5. Commander's Responsibilities .....	1-3
1-6. Trainer's Responsibilities .....	1-3
1-7. Training Support.....	1-4
<b>Chapter 2. Training Guide</b> .....	<b>2-1</b>
2-1. General.....	2-1
2-2. Subject Area Codes .....	2-2
2-3. Duty Position Training Requirements.....	2-3
2-4. Critical Tasks List .....	2-4

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**Chapter 3. MOS/Skill Level Tasks ..... 3-1**

**Skill Level 1**

**Subject Area 1: Administrative Tasks (SL 1/2)**

091-109-0001	Maintain Test, Measurement, and Diagnostic Equipment (TMDE).....	3-1
091-109-0002	Maintain Assigned Vehicles (PMCS).....	3-3
091-109-0003	Maintain Assigned Tool Kits .....	3-5
091-109-0006	Maintain Equipment Inspection and Maintenance Worksheet (DA Form 2404) and (DA Form 5988-E).....	3-6

**Subject Area 2: Technical Tasks (SL 1/2)**

091-63H-1003	Replace Engine/Transmission on a Tracked Vehicle .....	3-7
091-63H-1005	Replace Solenoids on a Tracked Vehicle Transmission .....	3-13
091-63H-1006	Replace Controller/Interface Assembly on a Tracked Vehicle Transmission.....	3-17
091-63H-1014	Maintain Diesel Power Plant/Pack on a Tracked Vehicle.....	3-21
091-63H-1015	Maintain Fuel System on a Tracked Vehicle .....	3-27
091-63H-1016	Maintain Cooling System on a Tracked Vehicle .....	3-32
091-63H-1017	Maintain Electrical System on a Tracked Vehicle.....	3-37
091-63H-1018	Maintain Suspension System on a Tracked Vehicle .....	3-41
091-63H-1019	Maintain Steering/Braking System on a Tracked Vehicle.....	3-45
091-63H-1020	Maintain Hydraulic System on a Tracked Vehicle .....	3-49
091-63H-1021	Maintain Fire Extinguisher/Suppression System on a Tracked Vehicle .....	3-53
091-63H-1022	Maintain Auxiliary Power Unit (APU) System on a Tracked Vehicle .....	3-56
091-63H-1023	Replace Control Differential on a Tracked Vehicle.....	3-59
091-63H-1024	Perform Engine Tune-Up Procedures on a Tracked Vehicle .....	3-62

**Subject Area 3: ASI (H8) Recovery Tasks**

091-H8C-2004	Operate Metal Cutting Equipment.....	3-67
091-H8C-2001	Locate a Recovery Site .....	3-68
091-H8C-2002	Determine Recovery Methods.....	3-69
091-H8C-2003	Operate Tactical Communications Equipment.....	3-70
091-H8T-2001	Maintain Recovery Vehicle Weapons.....	3-71
091-H8T-2002	Perform Preventive Maintenance Checks and Services on a Tracked Recovery Vehicle .....	3-74
091-H8T-2003	Use Basic Issue Items Related to Tracked Recovery Vehicle .....	3-76
091-H8T-2004	Drive Tracked Recovery Vehicle .....	3-78
091-H8T-2005	Operate Auxiliary Power Unit .....	3-81
091-H8T-2006	Operate the Boom and Hoist Winch on a Tracked Recovery Vehicle.....	3-83
091-H8T-2007	Operate the Spade on a Tracked Recovery Vehicle .....	3-85
091-H8T-2008	Operate the Winch on a Tracked Recovery Vehicle .....	3-87
091-H8T-2009	Recover a Mired Tracked Vehicle .....	3-89

**Skill Level 3****Subject Area 4: Common Logistic Tasks (SL 3)**

091-CLT-3001	Manage a Shop Safety Program .....	3-91
091-CLT-3002	Maintain a Publications Library.....	3-94
091-CLT-3004	Assist in Preparing a Standing Operating Procedure.....	3-97
091-CLT-3005	Manage Tool Control Procedures.....	3-98
091-CLT-3006	Manage Key Control Procedures .....	3-100
091-CLT-3007	Manage the TMDE Calibration Program .....	3-101
091-CLT-3008	Recon Terrain/Route .....	3-102
091-CLT-3010	Interpret Maintenance Operational Overlay.....	3-103
091-CLT-3011	Deploy Maintenance Support Teams .....	3-104
091-CLT-3012	Interpret a Standard Army Maintenance System (SAMS) Generated Maintenance Report.....	3-105

**Subject Area 5: Technical Tasks (SL 3)**

091-63H-3007	Perform Diagnostics on Pressure Timed (PT) Injection System on a Diesel Engine .....	3-107
091-63H-3008	Perform Diagnostics on Unit Type Injection System on a Diesel Engine .....	3-110
091-63H-3009	Perform Diagnostics on Distributor Type Injection System on a Diesel Engine .....	3-113
091-63H-3025	Perform Diagnostics on Automatic Transmissions on a Tracked Vehicle .....	3-116
091-63H-3120	Perform Diagnostics on Electrical Circuits on a Tracked Vehicle.....	3-119
091-63H-3122	Perform Diagnostics on Hydraulic System on a Tracked Vehicle .....	3-122
091-63H-3125	Perform Battlefield Damage Assessment and Repair (BDAR) on a Tracked Vehicle .....	3-125
091-63H-3130	Perform Diagnostic on the Power Distribution on a Tracked Vehicle.....	3-128
091-63H-3136	Perform Diagnostics on a Diesel Engine .....	3-131
091-63H-3137	Perform Diagnostics on a Fuel System on a Tracked Vehicle .....	3-134
091-63H-3138	Perform Diagnostics on Steering/ Brake System on a Tracked Vehicle .....	3-137
091-63H-3139	Perform Diagnostics on the Auxiliary Power Unit (APU) on a Tracked Vehicle .....	3-140
091-63H-3140	Perform Engine Tune-up Procedures on Diesel Engine.....	3-143
091-63H-3141	Perform Recovery Operation on a Tracked Vehicle .....	3-145

**Skill Level 4**

**Subject Area 6: Common Logistic Management Tasks (SL 4)**

091-CLT-4002	Supervise Platoon/Section Administrative Procedures .....	3-148
091-CLT-4003	Manage Combat Stress .....	3-150
091-CLT-4025	Manage Battlefield Maintenance Support.....	3-151
091-CLT-4001	Perform Senior Rater Responsibilities for a Maintenance Section .....	3-153
091-CLT-4006	Coordinate Support for the Maintenance Platoon/Section .....	3-154
091-CLT-4010	Integrate Automated Logistics Support Systems .....	3-155
091-CLT-4011	Plan Logistics Support for Maintenance Operations .....	3-156
091-CLT-4021	Prepare Standing Operating Procedures for Maintenance Operations.....	3-157
091-CLT-4022	Supervise the Deployment of Company Maintenance Team/Recovery Support Team/Maintenance Support Team.....	3-158
091-CLT-4023	Conduct a Route Reconnaissance for a Maintenance Mission.....	3-160
091-CLT-4024	Conduct an Area Reconnaissance for a Maintenance Mission.....	3-162
091-CLT-4026	Perform Support Operations NCO Duties .....	3-163
091-CLT-4027	Manage Maintenance Operations at a Maintenance Collection Point .....	3-164
091-CLT-4028	Provide Maintenance Support During Tactical Operations .....	3-165
<b>Chapter 4. Duty Position Tasks .....</b>		<b>4-1</b>
<b>Appendix A .....</b>		<b>A-1</b>
<b>Appendix B .....</b>		<b>B-1</b>
<b>Glossary .....</b>		<b>Glossary-1</b>
<b>References .....</b>		<b>References-1</b>

## PREFACE

This Soldier Training Publication (STP) is intended for Soldiers holding military occupational specialty (MOS) 63H, skill levels (SLs) 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 on 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 63H should have access to this publication. Trainers and first-line supervisors should actively plan for Soldier access, making it available in work areas, unit learning centers, and unit libraries. However, it is not intended that an individual copy be provided to each MOS holder. The STP is obtainable on line from the Reimer Digital Library (RDL) at <http://www.adtdl.army.mil/adtdls.htm>.

Tasks in this manual apply to Active Army, the Army National Guard/Army National Guard of the United States, and the United States Army Reserve unless otherwise stated.

The proponent of this publication is the United States Army Training and Doctrine Command (TRADOC). Prepare comments and recommendations using DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forward them directly to—

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Fort Lee, Virginia 23801-1511

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## CHAPTER 1

### Introduction

1-1. General. This Soldier Training Publication (STP) identifies individual military occupation specialty (MOS) training requirements for Soldiers holding MOS 63H. 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 63H Soldiers. Commanders employ two primary methods to evaluate Soldiers' proficiency:

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

This publication is the Soldier's primary reference to prepare for a commander's evaluation of MOS-specific tasks. It contains task summaries for all critical tasks specific to the MOS and skill level (SL). Commanders and trainers will use this Soldier's Manual/Trainer's Guide (SM/TG) to plan and conduct training and commander's evaluations. Chapter 2, Trainer's Guide, contains information needed to plan training requirements for this MOS. The trainer's guide—

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

Use this STP along with STP 21-1-SMCT (Soldier's Manual of Common Tasks, Skill Level 1), STP 21-24-SMCT (Soldier's Manual of Common Tasks (SMCT) Warrior Leader 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 7-0 (Training the Force), and FM 7-1 (Battle Focused Training) to establish effective training plans and programs that integrate Soldier, leader, and collective tasks.

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

- Task number. The task number is a 10-digit number that identifies the task and skill level. Include the task number and title in any correspondence relating to the task.
- Task title. The task title identifies the action to be performed.
- Conditions. The task conditions statement describes the field or garrison conditions under which the task will be performed and identifies the equipment, tools, references, job aids, and supporting personnel that the Soldier needs to perform the task in wartime.
- Standards. The task standards describe how well and to what level of proficiency the Soldier must perform the task under wartime conditions. Standards are typically expressed in terms of accuracy, completeness, duration, sequence, speed, and tolerance.
- Performance steps. This section provides, in detail, what is required on how to perform the task.
- Performance measures. This section identifies specific actions that the Soldier must accomplish to complete the task successfully. Performance measures appear in a GO/NO-GO rating format for easy evaluation. Some tasks may also include detailed training information in a Training Information Outline and an Evaluation Preparation Section. The Evaluation Preparation Section indicates necessary modifications to task performance in order to train and evaluate a task that can not be trained to the wartime standard under wartime conditions. It may also include special training and evaluation preparation instructions to accommodate these modifications and any instructions that should be given to the Soldier before evaluation.
- References. This section identifies references that provide more detailed explanations of task performance requirements than are given in the task summary.
- Warnings. Warnings alert users to the possibility of immediate personal injury or equipment damage.
- Notes. Notes provide additional supportive explanations or tips relating to task performance.

1-3. Soldier's Responsibilities. Each Soldier is responsible for performing individual tasks identified by the first-line supervisor based on the unit's Mission Essential Task List (METL). Soldiers must perform tasks to the standards included in the task summary. If Soldiers have questions about tasks or which tasks in this manual they must perform, they are responsible for asking their first-line supervisor for clarification. First-line supervisors know how to perform each task or can direct Soldiers to appropriate training materials, including current field manuals, technical manuals, and Army regulations. Soldiers are responsible for using these materials to maintain performance. They are also responsible for maintaining performance of all common tasks listed in the Soldier's Manual of Common Tasks (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 noncommissioned officer (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 all NCO, as Army professionals, to take responsibility for remaining current in all phases of their MOS. The STP is the NCO primary source for maintaining MOS proficiency. Another important resource for self-development is the Army Correspondence Course Program (ACCP). For enrollment information in this program, visit on line through the Army Institute for Professional Development (AIPD) website at <http://www.atsc.army.mil/accp/aipdnew.asp>.

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.

a. 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. Developing effective training is explained in detail in FM 7-0 and FM 7-1.

b. 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.

c. 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.

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

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

## CHAPTER 2

### Training Guide

2-1. General. The MOS Training Plan 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 MOS Training Plan should be used as a guide for conducting unit training and not a rigid standard. The MOS Training Plan 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.

a. Part One of the MOS Training Plan 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.

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

c. 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 Military Occupational Specialty Code (MOSC) the Soldier will merge into on promotion.

d. 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 MOS Training Plan.
- **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, and so on), 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 Noncommissioned Officer Course
<b>ASI/SD</b>	Additional Skill Identifier/Special Duty
<b>BNCOC</b>	Basic Noncommissioned Officer 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>AN</b> - Annually
<b>BA</b> - Biannually
<b>SA</b> - Semiannually

**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 Administrative Tasks (SL 1/2)
- 2 Technical Tasks (SL 1/2)
- 3 ASI (H8) Recovery Tasks

**Skill Level 3**

- 4 Common Logistic Tasks (SL 3)
- 5 Technical Tasks (SL 3)

**Skill Level 4**

- 6 Common Logistic Management Tasks (SL 4)

2-3. Duty Position Training Requirements.

<b>63H CAREER FIELD DUTY POSITIONS</b>			
<b>Duty Position</b>	<b>Subject Area</b>	<b>Cross Train</b>	<b>Train-up/Merger</b>
<b>Skill Level 1</b>			
63H10/Tracked Vehicle Mechanic 63H10/Recovery Vehicle Operator	1	NA	63H20/Tracked Vehicle Mechanic 63H20/Recovery Vehicle Operator
<b>Skill Level 2</b>			
63H20/Tracked Vehicle Mechanic 63H20/Recovery Vehicle Operator	1	NA	63H30/Senior Automotive Mechanic 63H30/Maintenance Analyst 63H30/Recovery Supervisor 63H30/Senior Fuel and Electric Systems Mechanic 63H30/Automotive Mechanic Sergeant 63H30/Mechanical Maintenance Sergeant 63H30/MHE Maintenance NCO 63H30/Technical Inspector 63H30/Operations Sergeant
<b>Skill Level 3</b>			
63H30/Senior Automotive Mechanic 63H30/Maintenance Analyst 63H30/Recovery Supervisor 63H30/Senior Fuel and Electric Systems Mechanic 63H30/Automotive Mechanic Sergeant 63H30/Mechanical Maintenance Sergeant 63H30/MHE Maintenance NCO 63H30/Technical Inspector 63H30/Operations Sergeant	2 and 3	NA	63H40/Operations Sergeant 63H40/Automotive Mechanic Supervisor 63H40/Maintenance Plans/Policy NCO 63H40/Maintenance Analyst 63H40/Mechanical Maintenance Sergeant 63H40/Maintenance Control Sergeant 63H40/Maintenance Management NCO 63H40/Fuel and Electric Systems Mechanic Supervisor 63H40/Section Chief 63H40/Commodity Management NCO 63H40/Platoon Sergeant
<b>Skill Level 4</b>			
63H40/Operations Sergeant 63H40/Automotive Mechanic Supervisor 63H40/Maintenance Plans/Policy NCO 63H40/Maintenance Analyst 63H40/Mechanical Maintenance Sergeant 63H40/Maintenance Control Sergeant 63H40/Maintenance Management NCO 63H40/Fuel and Electric Systems Mechanic Supervisor 63H40/Section Chief 63H40/Commodity Management NCO 63H40/Platoon Sergeant	4	NA	63Z50/Engineer Equipment Supervisor 63Z50/Engineer Equipment Maintenance Inspection Team Chief 63Z50/Mechanical Maintenance Operations NCO 63Z50/Mechanical Maintenance Management NCO 63Z50/Mechanical Maintenance Supervisor 63Z50/Mechanical Maintenance Management Logistics NCO 63Z50/Operations Sergeant 63Z50/First Sergeant

2-4. Critical Tasks List.

**MOS TRAINING PLAN  
63H14**

**CRITICAL TASKS**

Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
<b>Skill Level 1</b>				
<b>Subject Area 1. Administrative Tasks (SL 1/2)</b>				
091-109-0001	Maintain Test, Measurement, and Diagnostic Equipment (TMDE)	AIT	SA	1/2
091-109-0002	Maintain Assigned Vehicles (PMCS)	AIT	SA	1/2
091-109-0003	Maintain Assigned Tool Kits	AIT	SA	1/2
091-109-0006	Maintain Equipment Inspection and Maintenance Worksheet (DA Form 2404) and (DA Form 5988-E)	AIT	SA	1/2
<b>Subject Area 2. Technical Tasks (SL 1/2)</b>				
091-63H-1003	Replace Engine/Transmission on a Tracked Vehicle	AIT	SA	1/2
091-63H-1005	Replace Solenoids on a Tracked Vehicle Transmission	AIT	SA	1/2
091-63H-1006	Replace Controller/Interface Assembly on a Tracked Vehicle Transmission	AIT	SA	1/2
091-63H-1014	Maintain Diesel Power Plant/Pack on a Tracked Vehicle	AIT	SA	1/2
091-63H-1015	Maintain Fuel System on a Tracked Vehicle	AIT	BA	1/2
091-63H-1016	Maintain Cooling System on a Tracked Vehicle	AIT	BA	1/2
091-63H-1017	Maintain Electrical System on a Tracked Vehicle	AIT	BA	1/2
091-63H-1018	Maintain Suspension System on a Tracked Vehicle	AIT	BA	1/2
091-63H-1019	Maintain Steering/Braking System on a Tracked Vehicle	AIT	BA	1/2
091-63H-1020	Maintain Hydraulic System on a Tracked Vehicle	AIT	BA	1/2
091-63H-1021	Maintain Fire Extinguisher/Suppression System on a Tracked Vehicle	AIT	BA	1/2
091-63H-1022	Maintain Auxiliary Power Unit (APU) System on a Tracked Vehicle	AIT	BA	1/2
091-63H-1023	Replace Control Differential on a Tracked Vehicle	AIT	BA	1/2
091-63H-1024	Perform Engine Tune-Up Procedures on a Tracked Vehicle	AIT	BA	1/2
<b>Subject Area 3. ASI (H8) Recovery Tasks</b>				
091-H8C-2004	Operate Metal Cutting Equipment	ASI/SD	SA	1/2
091-H8C-2001	Locate a Recovery Site	ASI/SD	SA	1/2
091-H8C-2002	Determine Recovery Methods	ASI/SD	SA	1/2
091-H8C-2003	Operate Tactical Communications Equipment	ASI/SD	SA	1/2
091-H8T-2001	Maintain Recovery Vehicle Weapons	ASI/SD	SA	1/2
091-H8T-2002	Perform Preventive Maintenance Checks and Services on a Tracked Recovery Vehicle	ASI/SD	SA	1/2
091-H8T-2003	Use Basic Issue Items Related to Tracked Recovery Vehicle	ASI/SD	SA	1/2
091-H8T-2004	Drive Tracked Recovery Vehicle	ASI/SD	SA	1/2



## CRITICAL TASKS

Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
091-H8T-2005	Operate Auxiliary Power Unit	ASI/SD	SA	1/2
091-H8T-2006	Operate the Boom and Hoist Winch on a Tracked Recovery Vehicle	ASI/SD	SA	1/2
091-H8T-2007	Operate the Spade on a Tracked Recovery Vehicle	ASI/SD	SA	1/2
091-H8T-2008	Operate the Winch on a Tracked Recovery Vehicle	ASI/SD	SA	1/2
091-H8T-2009	Recover a Mired Tracked Vehicle	ASI/SD	SA	1/2
<b>Skill Level 3</b>				
<b>Subject Area 4. Common Logistic Tasks (SL 3)</b>				
091-CLT-3001	Manage a Shop Safety Program	BNCOC	AN	3
091-CLT-3002	Maintain a Publications Library	BNCOC	AN	3
091-CLT-3004	Assist in Preparing a Standing Operating Procedure	BNCOC	AN	3
091-CLT-3005	Manage Tool Control Procedures	BNCOC	AN	3
091-CLT-3006	Manage Key Control Procedures	BNCOC	AN	3
091-CLT-3007	Manage the TMDE Calibration Program	BNCOC	AN	3
091-CLT-3008	Recon Terrain/Route	BNCOC	AN	3
091-CLT-3010	Interpret Maintenance Operational Overlay	BNCOC	AN	3
091-CLT-3011	Deploy Maintenance Support Teams	BNCOC	AN	3
091-CLT-3012	Interpret a Standard Army Maintenance System (SAMS) Generated Maintenance Report	BNCOC	AN	3
<b>Subject Area 5. Technical Tasks (SL 3)</b>				
091-63H-3007	Perform Diagnostics on Pressure Timed (PT) Injection System on a Diesel Engine	BNCOC	AN	3
091-63H-3008	Perform Diagnostics on Unit Type Injection System on a Diesel Engine	BNCOC	AN	3
091-63H-3009	Perform Diagnostics on Distributor Type Injection System on a Diesel Engine	BNCOC	AN	3
091-63H-3025	Perform Diagnostics on Automatic Transmissions on a Tracked Vehicle	BNCOC	AN	3
091-63H-3120	Perform Diagnostics on Electrical Circuits on a Tracked Vehicle	BNCOC	AN	3
091-63H-3122	Perform Diagnostics on Hydraulic System on a Tracked Vehicle	BNCOC	AN	3
091-63H-3125	Perform Battlefield Damage Assessment and Repair (BDAR) on a Tracked Vehicle	BNCOC	AN	3
091-63H-3130	Perform Diagnostic on the Power Distribution on a Tracked Vehicle	BNCOC	AN	3
091-63H-3136	Perform Diagnostics on a Diesel Engine	BNCOC	SA	3
091-63H-3137	Perform Diagnostics on a Fuel System on a Tracked Vehicle	BNCOC	SA	3
091-63H-3138	Perform Diagnostics on Steering/ Brake System on a Tracked Vehicle	BNCOC	AN	2/3
091-63H-3139	Perform Diagnostics on the Auxiliary Power Unit (APU) on a Tracked Vehicle	BNCOC	SA	3
091-63H-3140	Perform Engine Tune-up Procedures on Diesel Engine	BNCOC	AN	2/3

## CRITICAL TASKS

Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
091-63H-3141	Perform Recovery Operation on a Tracked Vehicle	BNCOC	SA	2/3
<b>Skill Level 4</b>				
<b><i>Subject Area 6. Common Logistic Management Tasks (SL 4)</i></b>				
091-CLT-4002	Supervise Platoon/Section Administrative Procedures	ANCOC	AN	4
091-CLT-4003	Manage Combat Stress	ANCOC	AN	4
091-CLT-4025	Manage Battlefield Maintenance Support	ANCOC	AN	4
091-CLT-4001	Perform Senior Rater Responsibilities for a Maintenance Section	ANCOC	AN	4
091-CLT-4006	Coordinate Support for the Maintenance Platoon/Section	ANCOC	AN	4
091-CLT-4010	Integrate Automated Logistics Support Systems	ANCOC	AN	4
091-CLT-4011	Plan Logistics Support for Maintenance Operations	ANCOC	AN	4
091-CLT-4021	Prepare Standing Operating Procedures for Maintenance Operations	ANCOC	AN	4
091-CLT-4022	Supervise the Deployment of Company Maintenance Team/Recovery Support Team/Maintenance Support Team	ANCOC	AN	4
091-CLT-4023	Conduct a Route Reconnaissance for a Maintenance Mission	ANCOC	AN	4
091-CLT-4024	Conduct an Area Reconnaissance for a Maintenance Mission	ANCOC	AN	4
091-CLT-4026	Perform Support Operations NCO Duties	ANCOC	AN	4
091-CLT-4027	Manage Maintenance Operations at a Maintenance Collection Point	ANCOC	AN	4
091-CLT-4028	Provide Maintenance Support During Tactical Operations	ANCOC	AN	4

**CHAPTER 3****MOS/Skill Level Tasks**

## Skill Level 1

## Subject Area 1: Administrative Tasks (SL 1/2)

**Maintain Test, Measurement, and Diagnostic Equipment (TMDE)****091-109-0001**

**Conditions:** In a contemporary operational environment, given applicable test, measurement, and diagnostic equipment (TMDE), Army regulation (AR) 750-43, technical bulletin (TB) 43-180, technical manual (TM) 11-6625-3052-14, TM 9-6625-2301-14&P, suitable tools, and suitable cleaning materials.

**Standards:** Maintain the TMDE in accordance with the applicable technical publications, procedures, and specifications. When this task was completed, the equipment was fully mission capable, calibration date was current, and maintenance actions had been identified.

**Performance Steps**

1. Select and use applicable references. (AR 750-43, TB 43-180, TM 11-6625-3052-14, TM 9-6625-2301-14&P)
2. Inspect TMDE for damage. (AR 750-43, TB 43-180, TM 11-6625-3052-14, TM 9-6625-2301-14&P)
3. Test-operate TMDE to determine proper operation. (AR 750-43, TB 43-180, TM 11-6625-3052-14, TM 9-6625-2301-14&P)
4. Check calibration date, if required. (AR 750-43, TB 43-180, TM 11-6625-3052-14, TM 9-6625-2301-14&P)
5. Clean and/or lubricate TMDE, if required. (AR 750-43, TB 43-180, TM 11-6625-3052-14, TM 9-6625-2301-14&P)
6. Store or package TMDE properly after maintenance or use. (AR 750-43, TB 43-180, TM 11-6625-3052-14, TM 9-6625-2301-14&P)
7. Maintain the contact test set (CTS). (AR 750-43, TB 43-180, TM 11-6625-3052-14, TM 9-6625-2301-14&P)
8. Complete The Army Maintenance Management System (TAMMS) forms, as required. (AR 750-43, TB 43-180, TM 11-6625-3052-14, TM 9-6625-2301-14&P)
9. Perform required preventive maintenance checks and services (PMCS). (AR 750-43, TB 43-180, TM 11-6625-3052-14, TM 9-6625-2301-14&P)
10. Maintain tools and equipment. (AR 750-43, TB 43-180, TM 11-6625-3052-14, TM 9-6625-2301-14&P)

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable references.	—	—
2. Inspected TMDE for damage.	—	—
3. Tested-operated TMDE to determine proper operation.	—	—
4. Checked calibration date, if required.	—	—
5. Cleaned and/or lubricated TMDE, if required.	—	—
6. Stored or packaged TMDE properly after maintenance or use.	—	—
7. Maintained the CTS.	—	—
8. Completed TAMMS forms, as required.	—	—
9. Performed required PMCS.	—	—
10. Maintained tools and equipment.	—	—

**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 750-43

TB 43-180

TM 11-6625-3052-14

TM 9-6625-2301-14&P

**Related**

**Maintain Assigned Vehicles (PMCS)**

**091-109-0002**

**Conditions:** In a contemporary operational environment, given an assigned vehicle; repair parts; petroleum, oil, lubricants (POL) products, if needed; additional tools and equipment as indicated in the technical manuals (TMs); Department of the Army (DA) Pamphlet 750-8; DA Form 5988-E (Equipment Inspection Maintenance Worksheet), other applicable technical publications and, other necessary forms, and supervision/assistance.

**Standards:** Maintain assigned vehicle preventive maintenance checks and services (PMCS) in accordance with the applicable technical publications, procedures, and specifications. When this task was completed, the vehicle was fully mission capable or deficiencies/shortcomings were annotated and required maintenance actions to be performed by other than assigned vehicle operator had been identified.

**Performance Steps**

1. Select and use applicable technical publications. (DA FORM 5988-E, DA PAM 750-8)
2. Select and use applicable tools and test, measurement, and diagnostic equipment (TMDE). (DA FORM 5988-E, DA PAM 750-8)
3. Practice shop safety and maintenance discipline. (DA FORM 5988-E, DA PAM 750-8)
4. Perform PMCS in accordance with TM. (DA FORM 5988-E, DA PAM 750-8)
5. Annotate actions taken on DA Form 5988-E (Equipment Inspection Maintenance Worksheet). (DA FORM 5988-E, DA PAM 750-8)
6. Maintain tools and equipment. (DA FORM 5988-E, DA PAM 750-8)

**Evaluation Preparation:** WARNING: The following safety precautions must be adhered to when performing the tasks listed in this manual: Do not remove a radiator cap or surge tank cap unless the engine is cool. While working on electrical systems, remove all rings, watches, and jewelry. Before working on the exhaust system, make sure it is cool. Disconnect the negative battery cable prior to performing any electrical system maintenance or when performing repairs in the locality of electrical components. When working around engines that are operating, wear hearing protection. When removing components over 75 pounds, two personnel are required.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable technical publications.	—	—
2. Selected and used applicable tools and TMDE.	—	—
3. Practiced shop safety and maintenance discipline.	—	—
4. Performed PMCS in accordance with TM.	—	—
5. Annotated actions taken on DA Form 5988-E (Equipment Inspection Maintenance Worksheet).	—	—
6. Maintained tools and equipment.	—	—

**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**

DA FORM 5988-E

DA PAM 750-8

**Related**

**Maintain Assigned Tool Kits  
091-109-0003**

**Conditions:** In a contemporary operational environment, given applicable tool kits, applicable references, technical manual (TM) 9-243, Department of the Army (DA) Form 5988-E (Equipment Inspection Maintenance Worksheet), cleaning materials, and solvents or lubricants.

**Standards:** Inspected and serviced the assigned tool kits in accordance with the applicable technical publications procedures and specifications. When this task was completed, assigned tools were in operable condition, tool kits or sets were complete, or section chief or supervisor were notified of shortages.

**Performance Steps**

1. Select and use applicable references. (DA FORM 5988-E, TM 9-243)
2. Inspect tools for serviceability and accountability. (DA FORM 5988-E, TM 9-243)
3. Practice shop safety and maintenance discipline. (DA FORM 5988-E, TM 9-243)
4. Identify damaged items and notified supervisor. (DA FORM 5988-E, TM 9-243)
5. Apply lubricants or preservatives, as needed. (DA FORM, 5988-E, TM 9-243)
6. Annotate corrective actions taken on DA Form 5988-E. (DA FORM 5988-E, TM 9-243)

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable references.	___	___
2. Inspected tools for serviceability and accountability.	___	___
3. Practiced shop safety and maintenance discipline.	___	___
4. Identified damaged items and notified supervisor.	___	___
5. Applied lubricants or preservatives, as needed.	___	___
6. Annotated corrective actions taken on DA Form 5988-E.	___	___

**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**  
DA FORM 5988-E  
TM 9-243

**Related**

**Maintain Equipment Inspection and Maintenance Worksheet (DA Form 2404) and  
(DA Form 5988-E)  
091-109-0006**

**Conditions:** In a contemporary operational environment, given required equipment, Army regulation (AR) 750-1, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), DA Pamphlet 750-3, and DA Pamphlet 750-8.

**Standards:** DA Form 2404 and DA Form 5988-E are inspected and maintained in accordance with DA Pamphlet 750-8 to ensure all required information had been correctly annotated.

**Performance Steps**

1. Selected and used applicable publications. (AR 750-1, DA FORM 2404, DA FORM 5988-E, DA PAM 750-8)
2. Ensured all entries were completed as required. (AR 750-1, DA FORM 2404, DA FORM 5988-E, DA PAM 750-8)
3. Ensured all entries were corrected. (AR 750-1, DA FORM 2404, DA FORM 5988-E, DA PAM 750-8)
4. Ensured proper disposition of forms. (AR 750-1, DA FORM 2404, DA FORM 5988-E, DA PAM 750-8)

**Evaluation Preparation:** WARNING: The following safety precautions must be adhered to when performing the tasks listed in this manual: Do not remove a radiator cap or surge tank cap unless the engine is cool. While working on electrical systems, remove all rings, watches, and jewelry. Before working on the exhaust system, make sure it is cool. Disconnect the negative battery cable prior to performing any electrical system maintenance or when performing repairs in the locality of electrical components. When working around engines that are operating, wear hearing protection. When removing components over 75 pounds, two personnel are required.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable publications.	—	—
2. Ensured all entries were completed as required.	—	—
3. Ensured all entries were corrected.	—	—
4. Ensured proper disposition of forms.	—	—

**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	
DA FORM 2404	
DA FORM 5988-E	
DA PAM 750-3	
DA PAM 750-8	



## Subject Area 2: Technical Tasks (SL 1/2)

**Replace Engine/Transmission on a Tracked Vehicle****091-63H-1003**

**Conditions:** In a contemporary operational environment given a tracked vehicle with engine and transmission installed, a serviceable replacement engine and transmission, general mechanic's tool kit, necessary equipment, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), and technical manuals (TMs) listed in supporting products for the vehicle selected.

**Standards:** Replaced the engine and transmission assembly in accordance with applicable TMs and scored a "GO" on all performance measures listed.

**Performance Steps**

1. Review work request. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Ensure deficiencies are annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.
2. Select and use applicable technical publication. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Identify what TM will be used.
  - b. Follow steps outlined in technical publication.
3. Select and use correct tools and test, measurement, and diagnostic equipment (TMDE). (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Identify applicable tools.
  - b. Inspect tools for damage.
4. Practice shop safety and maintenance discipline. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Follow safety guidelines outlined in standing operating procedure (SOP) and motor pool.
  - b. Ensure proper safety equipment is utilized.
  - c. Conduct risk assessment.

## Performance Steps

5. Remove propeller shaft and/or final drives. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Follow steps outlined in TM.
  - b. Use proper tools.
6. Remove line and linkages. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Ensure lines are capped off to prevent Environmental Protection Agency (EPA) violations.
  - b. Use proper tools.
7. Remove powerplant. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Ensure Soldiers are out of area of projection.
  - b. Ensure engine/transmission stand is on level ground.
8. Separate transmission assembly. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Ensure transmission has been drained.
  - b. Ensure all bolts have been properly removed.
9. Switch parts as needed. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Ensure all parts are removed from old powerplant.
  - b. Replace any broken parts.
10. Replace seals as needed. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Replace engine/transmission seal.
  - b. Ensure sealant is applied to secure seal.

## Performance Steps

11. Install transmission assembly. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Ensure transmission is aligned with engine.
  - b. Ensure bolts are properly place.
12. Install powerplant. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Ensure all objects and personnel are out of the way.
  - b. Ensure powerplant in aligned in hull.
13. Connect line and linkages. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Ensure lines and linkages are aligned to prevent cross threading.
  - b. Ensure lines are installed to appropriate assembly.
14. Install propeller shaft and/or final drives. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Ensure final drives are aligned to prevent cross threading.
  - b. Ensure bolts are proper size before tightening.
  - c. Ensure final drives are filled to specification.
15. Perform a final operational check to verify transmission has been replaced to specifications. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Fill powerplant to test for leaks.
  - b. Fix any problems that may have occurred.
16. Complete DA Form 5988-E as required. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Annotate proper details on paperwork.
  - b. Ensure appropriate signatures are in boxes.

**Performance Steps**

17. Maintain tools and equipment. (DA FORM 2404, DA FORM 5988-E, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-20-4, TM 9-2350-277-20-5, TM 9-2350-277-20-6)
  - a. Ensure tools are cleaned before storing back in appropriate tool kit.
  - b. Ensure area is free of any oil spills.

**Evaluation Preparation:** None.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	_____	_____
a. Ensured deficiencies were annotated on DA Form 2404 and DA Form 5988-E.		
b. Ensured paperwork was in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.		
2. Selected and used applicable technical publication.	_____	_____
a. Identified what technical manual to be used.		
b. Followed steps outlined in technical publication.		
3. Selected and used correct tools and TMDE.	_____	_____
a. Identified applicable tools.		
b. Inspected tools for damage.		
4. Practiced shop safety and maintenance discipline.	_____	_____
a. Followed safety guidelines outlined in SOP and motor pool.		
b. Ensured proper safety equipment was used.		
5. Removed propeller shaft and/or final drives.	_____	_____
a. Followed steps outlined in TM.		
b. Used proper tools.		
6. Removed line and linkages.	_____	_____
a. Ensured lines were capped off to prevent EPA violations.		
b. Used proper tools.		
7. Removed power plant.	_____	_____
a. Ensured Soldiers were out of area of projection.		
b. Ensured engine/transmission stand was on level ground.		
8. Separated transmission assembly.	_____	_____
a. Ensured transmission was properly drained.		
b. Ensure all bolts were properly removed.		
9. Switched parts as needed.	_____	_____
a. Ensured all parts were removed from old powerplant.		
b. Replaced any broken parts.		
10. Replaced seals as needed.	_____	_____
a. Replaced engine/transmission seal.		
b. Ensured sealant was applied to secure seal.		

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
11. Installed transmission assembly.	—	—
a. Ensured transmission was aligned with engine.		
b. Ensured bolts were properly placed.		
12. Installed powerplant.	—	—
a. Ensured all objects and personnel were out of the way.		
b. Ensured powerplant was aligned in the hull.		
13. Connected lines and linkages.	—	—
a. Ensured lines and linkages were aligned to prevent cross threading.		
b. Ensured lines were installed to appropriate assembly.		
14. Installed propeller shaft and/or final drives.	—	—
a. Ensured final drives were aligned to prevent cross threading.		
b. Ensured bolts were proper size before tightening.		
c. Ensured final drives were filled to specification.		
15. Performed a final operational check to verify transmission had been replaced to specifications.	—	—
a. Filled powerplant to test for leaks.		
b. Fixed any problems that may have occurred.		
16. Completed DA Form 5988-E as required.	—	—
a. Annotated proper details on paperwork.		
b. Ensured appropriate signatures were in boxes.		
17. Maintained tools and equipment.	—	—
a. Ensured tools were cleaned before storing them back in appropriate tool kit.		
b. Ensured are was free of any oil spills.		

**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>
DA FORM 2404	
DA FORM 5988-E	
TM 9-1450-646-10	
TM 9-1450-646-20-1	
TM 9-1450-646-20-2	
TM 9-1450-646-20-3	
TM 9-1450-646-20-4	
TM 9-1450-646-20-5	
TM 9-2350-256-10	
TM 9-2350-256-20-1	
TM 9-2350-256-20-2	
TM 9-2350-261-10	
TM 9-2350-261-20-1	
TM 9-2350-261-20-2	
TM 9-2350-261-20-3	
TM 9-2350-277-10	
TM 9-2350-277-20-1	
TM 9-2350-277-20-2	
TM 9-2350-277-20-3	

**References**

**Required**

TM 9-2350-277-20-4

TM 9-2350-277-20-5

TM 9-2350-277-20-6

**Related**

**Replace Solenoids on a Tracked Vehicle Transmission**  
**091-63H-1005**

**Conditions:** In a contemporary operational environment given a tracked vehicle without transmission installed, transmission, solenoid, general mechanic's tool kit, necessary equipment, Army regulation (AR) 385-10, field manual (FM) 4-30.3, technical manual (TM) 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2350-277-24P, TM 9-2350-277-34, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), and other applicable references.

**Standards:** Replaced the transmission solenoid assembly in accordance with applicable TMs. When this task was completed, the equipment or end item was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Review work request. (AR 385-10, DA FORM 2404, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3)
  - a. Ensure correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.
2. Select and use applicable TM. (AR 385-10, DA FORM 2404, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3)
  - a. Identify which TM will be used.
  - b. Follow steps outlined in TM for deficiency.
3. Select and use applicable tools and test, measurement, and diagnostic equipment (TMDE). (AR 385-10, DA FORM 2404, DA FORM 5988-E, DA PAM 738-751, PAM 750-8, FM 4-30.3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3)
  - a. Identify applicable tools.
  - b. Ensure tools are not damaged.
4. Practice shop safety and maintenance discipline. (AR 385-10, DA FORM 2404, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3)
  - a. Follow safety guidelines outlined in standing operating procedure (SOP) and motor pool.
  - b. Ensure proper safety equipment is utilized.
  - c. Conduct risk assessment.
5. Disconnect all applicable electrical connectors. (AR 385-10, DA FORM 2404, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3)
  - a. Ensure batteries are disconnected.
  - b. Label electrical parts, if needed.
6. Remove solenoid from transmission. (AR 385-10, DA FORM 2404, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3)
  - a. Ensure proper tool is used.
  - b. Ensure there is no damage to the transmission.

### Performance Steps

7. Inspect solenoid. (AR 385-10, DA FORM 2404, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3)
  - a. Ensure there is no external or visible damage.
  - b. Tag solenoid for turn-in.
8. Install solenoid on transmission. (AR 385-10, DA FORM 2404, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3)
  - a. Ensure component is right one for the job.
  - b. Ensure proper tools are used.
  - c. Install component according to steps outlined in TM.
9. Connect all applicable electrical connectors. (AR 385-10, DA FORM 2404, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3)
  - a. Ensure connectors are attached to appropriate part.
  - b. Ensure batteries are connected.
10. Perform a final inspection. (AR 385-10, DA FORM 2404, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3)
  - a. Adjust components as needed.
  - b. Ensure there are no missing parts.
11. Perform a functional test on the transmission solenoid assembly. (AR 385-10, DA FORM 2404, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3)
  - a. Ensure safety precautions are followed.
  - b. Ensure proper tools and TMDE are used correctly.
12. Ensure tools and equipment are properly maintained. (AR 385-10, DA FORM 2404, DA FORM 5988-E, PAM 738-751, PAM 750-8, FM 4-30.3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3)
  - a. Clean tools before storing in appropriate storage bin.
  - b. Ensure no tools are missing.
13. Completed DA Form 5988-E, as required. (AR 385-10, DA FORM 2404, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-277-10, TM 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3)
  - a. Annotate fault was correct on appropriate form.
  - b. Ensure maintenance supervisor signed in appropriate block.

**Evaluation Preparation:** None



<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
a. Ensured correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.		
b. Ensured paperwork was in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.		
2. Selected and used applicable technical publications.	—	—
a. Identified which TM was to be used.		
b. Followed steps outlined in TM for deficiency.		
3. Selected and used applicable tools and TMDE.	—	—
a. Identified applicable tools.		
b. Ensured tools were not damaged.		
4. Practiced shop safety and maintenance discipline.	—	—
a. Followed safety guidelines outline in SOP and motor pool.		
b. Ensured proper safety equipment was used.		
c. Conducted risk assessment.		
5. Disconnected all applicable electrical connectors.	—	—
a. Ensured batteries were disconnected.		
b. Labeled electrical parts, if needed.		
6. Removed solenoid from transmission.	—	—
a. Ensured proper tools were used.		
b. Ensured there was no damage to transmission.		
7. Inspected solenoid.	—	—
a. Ensured there was no external or visible damage.		
b. Tagged solenoid for turn-in.		
8. Installed solenoid on transmission.	—	—
a. Ensured component was right one for the job.		
b. Ensured proper tools were used.		
c. Installed component according to steps outlined in TM.		
9. Connected all applicable electrical connectors.	—	—
a. Ensured connectors were attached to appropriate part.		
b. Ensured batteries were reconnected.		
10. Performed a final inspection.	—	—
a. Adjusted components as needed.		
b. Ensured batteries were reconnected.		
11. Performed a functional test on the transmission solenoid assembly.	—	—
a. Ensure safety precautions were followed.		
b. Ensured proper tools and TMDE were used correctly.		
12. Ensured tools and equipment were properly maintained.	—	—
a. Cleaned tools before storing in appropriate storage bin.		
b. Ensured no tools were missing.		
13. Completed DA Form 5988-E, as required.	—	—
a. Annotated faults were corrected on appropriate form.		
b. Ensured maintenance supervisor signed in appropriate block.		

**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 385-10  
DA FORM 2404  
DA FORM 5988-E  
DA PAM 738-751  
DA PAM 750-8  
FM 4-30.3  
TM 9-2350-277-10  
TM 9-2350-277-20-1  
TM 9-2350-277-20-2  
TM 9-2350-277-20-3  
TM 9-2350-277-34

**Related**

**Replace Controller/Interface Assembly on a Tracked Vehicle Transmission**  
**091-63H-1006**

**Conditions:** In a contemporary operational environment given a tracked vehicle without transmission installed, transmission, controller/interface assembly, general mechanic's tool kit, necessary equipment, Army regulation (AR) 385-10, field manual (FM) 4-30.3, technical manual (TM) 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), DA Pamphlet 750-8, DA Pamphlet 738-751, and other applicable references.

**Standards:** Replaced the transmission controller/interface assembly in accordance with applicable TMs. When this task was completed the equipment or end item was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Review work request. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Ensure deficiencies are annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.
2. Select and use applicable publication. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Identify what TM will be used.
  - b. Follow steps outlined in technical publication.
3. Select and use correct tools and test, measurement, and diagnostic equipment (TMDE). (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Identify applicable tools.
  - b. Inspect tools for damage.
4. Follow prescribed safety procedures. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Ensure safety guidelines are followed in accordance with standing operating procedure (SOP).
  - b. Ensure proper safety equipment is utilized.
  - c. Conduct risk assessment.
5. Practice shop safety and maintenance discipline. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Ensure motor pool safety guidelines are followed.
  - b. Follow Environmental Protection Agency (EPA) guidelines.
6. Disconnect all applicable electrical connections. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Ensure batteries are disconnected.
  - b. Label electrical parts, if needed.

## Performance Steps

7. Disconnect all applicable fittings. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Ensure appropriate tool is used.
  - b. Place fittings in secure place.
8. Disconnect all applicable lines. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Ensure lines are capped off.
  - b. Tag lines, if needed.
9. Remove controller/interface assembly from transmission. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Ensure EPA guidelines are applied.
  - b. Ensure proper tools are used.
10. Inspect controller/interface assembly from transmission. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Check for external damage.
  - b. Tag for turn-in.
11. Install controller/interface assembly on transmission. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Ensure part is right for the job.
  - b. Use appropriate tools.
12. Connect all applicable electrical connections. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Ensure electrical lines are connected properly.
  - b. Use appropriate tool for job.
13. Connect all applicable fittings. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Inspect fittings for damage.
  - b. Ensure right fittings are connected.
14. Connect all applicable lines. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Ensure lines are not damaged before connecting.
  - b. Ensure right line is connected to right position.
15. Perform a final operational check to verify that controller/interface assembly was replaced to specifications. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Ensure all fluids are filled to specification.
  - b. Conduct visual inspection of components before starting vehicle.

**Performance Steps**

16. Maintain tools and equipment. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Ensure all tools are cleaned before storing.
  - b. Ensure area is free of EPA violations.
17. Complete DA Form 5988-E, as required. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5)
  - a. Annotated correction on appropriate forms.
  - b. Ensure supervisor signs in appropriate block.

**Evaluation Preparation: None****Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Reviewed work request.	_____	_____
a. Ensured deficiencies were annotated on DA Form 2404 and DA Form 5988-E.		
b. Ensured paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.		
2. Selected and used applicable publications.	_____	_____
a. Identified what TM was used.		
b. Followed steps outlined in technical publication.		
3. Selected and used correct tools and TMDE.	_____	_____
a. Identified applicable tools.		
b. Inspected tools for damage.		
4. Followed prescribed safety procedures.	_____	_____
a. Ensured safety guidelines were followed in accordance with SOP.		
b. Ensured proper safety equipment was used.		
c. Conducted risk assessment.		
5. Practiced shop safety and maintenance discipline.	_____	_____
a. Ensured motor pool safety guidelines were followed.		
b. Followed EPA guidelines.		
6. Disconnected all applicable electrical connections.	_____	_____
a. Ensured batteries were disconnected.		
b. Labeled electrical parts, if needed.		
7. Disconnected all applicable fittings.	_____	_____
a. Ensured appropriate tool was used.		
b. Placed fittings in secure place.		
8. Disconnected all applicable lines.	_____	_____
a. Ensured lines were capped off.		
b. Tagged lines, if needed.		
9. Removed controller/interface assembly from transmission.	_____	_____
a. Ensured EPA guidelines were applied.		
b. Ensured proper tools were used.		

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
10. Inspected controller/interface assembly from transmission. a. Checked for external damage. b. Tagged for turn-in.	—	—
11. Installed controller/interface assembly on transmission. a. Ensured part was right one for job. b. Used appropriate tools.	—	—
12. Connected all applicable electrical connections. a. Ensured electrical lines were connected properly. b. Used appropriate tool for job.	—	—
13. Connected all applicable fittings. a. Inspected fittings for damage. b. Ensured right fitting was connected.	—	—
14. Connected all applicable lines. a. Ensured lines were not damaged before connecting. b. Ensured right line was connected to right part.	—	—
15. Performed a final operational check to verify that controller/interface assembly was replaced to specifications. a. Ensured all fluids were filled to specification. b. Conducted visual inspection of components before starting vehicle.	—	—
16. Maintained tools and equipment. a. Ensured all tools were cleaned before storing. b. Ensured area was free of EPA violations.	—	—
17. Completed DA Form 5988-E, as required. a. Annotated correction on appropriate forms. b. Ensured supervisor signed in appropriate block.	—	—

**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 385-10	
DA FORM 2404	
DA FORM 5988-E	
DA PAM 738-751	
DA PAM 750-8	
FM 4-30.3	
TM 9-1450-646-10	
TM 9-1450-646-20-1	
TM 9-1450-646-20-2	
TM 9-1450-646-20-3	
TM 9-1450-646-20-4	
TM 9-1450-646-20-5	

**Maintain Diesel Power Plant/Pack on a Tracked Vehicle**  
**091-63H-1014**

**Conditions:** In a contemporary operational environment given a tracked vehicle, general mechanic's tool kit, necessary equipment, Army regulation (AR) 385-10, field manual (FM) 4-30.3, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), DA Pamphlet 738-751, DA Pamphlet 750-8, lubrication order (LO) 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, technical manual (TM) 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-256-24P-2, TM 9-2350-256-34, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-261-24P, and other applicable references.

**Standards:** Maintained the diesel power plant/pack in accordance with applicable TMs. When this task was completed the equipment or end item was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Review work request. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure deficiencies are annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.
2. Select and use applicable publication. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify what TM will be used.
  - b. Follow steps outlined in technical publication.
3. Select and use correct tools and test, measurement, and diagnostic equipment (TMDE). (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify which tools will be used.
  - b. Ensure tools are serviceable.

## Performance Steps

4. Follow prescribed safety procedures. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure safety guidelines are followed in accordance with standing operating procedure (SOP).
  - b. Ensure safety equipment is used.
  - c. Ensure safety caution signs are used.
  - d. Conduct risk assessment.
5. Practice shop safety and maintenance discipline. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure motor pool guidelines are followed.
  - b. Follow Environmental Protection Agency (EPA) guidelines.
6. Disconnect all applicable fuel, oil, air, and coolant lines. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure all fluids are drained, if needed.
  - b. Ensure lines are capped off, if required.
7. Disconnect all applicable electrical connections. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure batteries are disconnected.
  - b. Label electrical lines, if needed.
8. Remove diesel power plant. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure Soldiers are out of area of projection.
  - b. Ensure all applicable parts are switched over.
  - c. Ensure all parts are serviceable.
  - d. Replace any worn seals.



## Performance Steps

9. Inspect diesel powerplant. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure no components are missing.
  - b. Ensure there is no external damage.
  - c. Ensure there are no leaks.
10. Test diesel power plant. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Use ground hop kit, if required.
  - b. Ensure hearing protection is worn, if needed.
11. Connect all applicable fuel, oil, air, and coolant lines. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure lines are connected to right component.
  - b. Ensure right tools are used.
  - c. Ensure no part is cross threaded.
12. Connect all applicable electrical connections. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Inspect wiring harness for any tears or frays.
  - b. Ensure all components are connected properly.
  - c. Ensure right tool is used.
  - d. Ensure no part is cross threaded.
13. Replace diesel powerplant. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure deck is lifted out of the way.
  - b. Ensure there is enough clearance to place power plant.

**Performance Steps**

14. Adjust systems and components. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure all components are attached properly.
  - b. Ensure all components are filled to specification.
  
15. Perform a final operational check to verify diesel power plant was placed to specifications. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure there are no leaks visible.
  - b. Ensure all connects are tightened.
  - c. Ensure deck was lower.
  
16. Maintain tools and equipment. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure all tools are cleaned before storing.
  - b. Ensure all oil spills are cleaned up.
  
17. Complete DA Form 5988-E, as required. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, LO 5-5420-226-12, LO 9-1450-646-12, LO 9-2350-256-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Annotated corrected fault on form.
  - b. Ensure supervisor signs in appropriate block.

**Evaluation Preparation: None**

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request. <ol style="list-style-type: none"> <li>a. Ensured deficiencies are annotated on DA Form 2404 and DA Form 5988-E.</li> <li>b. Ensured paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.</li> </ol>	_____	_____
2. Selected and used applicable publications. <ol style="list-style-type: none"> <li>a. Identified what technical manual will be used.</li> <li>b. Followed steps outlined in technical publication.</li> </ol>	_____	_____
3. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> <li>a. Identified which tools were used.</li> <li>b. Ensured tool were serviceable.</li> </ol>	_____	_____

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
4. Followed prescribed safety procedures.	—	—
a. Ensured safety guidelines were followed in accordance with SOP.		
b. Ensured safety equipment was used.		
c. Ensured safety caution signs were used.		
d. Conducted risk assessment.		
5. Practiced shop safety and maintenance discipline.	—	—
a. Ensured motor pool guidelines were followed.		
b. Followed EPA guidelines.		
6. Disconnected all applicable fuel, oil, air, and coolant lines.	—	—
a. Ensured all fluids were drained, if needed.		
b. Ensured lines were capped off, if required.		
7. Disconnected all applicable electrical connections.	—	—
a. Ensured batteries were disconnected.		
b. Labeled electrical lines, if needed.		
8. Removed diesel power plant.	—	—
a. Ensured Soldiers were out of area of projection.		
b. Ensured all applicable parts were switched over.		
c. Ensured all parts were serviceable.		
d. Replaced any worn seals.		
9. Inspected diesel power plant.	—	—
a. Ensured no components were missing.		
b. Ensured there was no external damage.		
c. Ensured there were no leaks.		
10. Tested diesel powerplant.	—	—
a. Used ground hop kit, if required.		
b. Ensured hearing protection was worn, if needed.		
11. Connected all applicable fuel, oil, air, and coolant lines.	—	—
a. Ensured lines were connected to right component.		
b. Ensured right tools were used.		
c. Ensured no parts were cross threaded.		
12. Connected all applicable electrical connections.	—	—
a. Inspected wiring harness for any tears or frays.		
b. Ensured all components were connected properly.		
c. Ensured right tools were used.		
d. Ensured no part was cross threaded.		
13. Replaced diesel power plant.	—	—
a. Ensured deck was lifted out of the way.		
b. Ensured there was enough clearance to place power plant in hull.		
14. Adjusted systems and components.	—	—
a. Ensured all components were attached properly.		
b. Ensured all components were filled to specification.		
15. Performed a final operational check to verify diesel power plant was replaced to specifications.	—	—
a. Ensured there were no leaks visible.		
b. Ensured all connections were tightened.		
c. Ensured deck was lowered.		

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
16. Maintained tools and equipment.	_____	_____
a. Ensured all tool were cleaned before storing.		
b. Ensured all oil spills were cleaned up.		
17. Completed DA Form 5988-E, as required.	_____	_____
a. Annotated corrected faults on form.		
b. Ensured supervisor signed in appropriate block.		

**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 385-10	
DA FORM 2404	
DA FORM 5988-E	
DA PAM 738-751	
DA PAM 750-8	
FM 4-30.3	
LO 5-5420-226-12	
LO 9-1450-646-12	
LO 9-2350-256-12	
LO 9-2350-261-12	
TM 5-5420-226-10	
TM 5-5420-226-20-1	
TM 5-5420-226-20-2	
TM 5-5420-226-20-3	
TM 5-5420-226-20-4	
TM 9-1450-646-10	
TM 9-1450-646-20-1	
TM 9-1450-646-20-2	
TM 9-1450-646-20-3	
TM 9-1450-646-20-4	
TM 9-1450-646-20-5	
TM 9-2350-256-10	
TM 9-2350-256-20-1	
TM 9-2350-256-20-2	
TM 9-2350-256-24P-1	
TM 9-2350-256-24P-2	
TM 9-2350-256-34	
TM 9-2350-261-10	
TM 9-2350-261-20-1	
TM 9-2350-261-20-2	
TM 9-2350-261-20-3	
TM 9-2350-261-24P	

**Maintain Fuel System on a Tracked Vehicle**  
**091-63H-1015**

**Conditions:** In a contemporary operational environment given required equipment, applicable tracked vehicle, general mechanic's tool kit, special tools, test, measurement, and diagnostic equipment (TMDE), necessary safety equipment, replacement parts if needed; Army regulation (AR) 385-10, AR 750-1, AR 750-43, lubrication order (LO) 5-5420-226-12, LO 9-230-261-12, technical manual (TM) 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-500-24P, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-261-24P, Department of the Army (DA) Form 5988-E (Equipment Inspection Maintenance Worksheet), and other applicable forms and references.

**Standards:** Maintained tracked vehicle fuel systems in accordance with the applicable TM procedures and specifications. When this task was completed, the vehicle was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Select and use applicable publications. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify what TM will be used.
  - b. Follow steps outlined in technical publication.
2. Select and use correct tools and TMDE. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify applicable tools.
  - b. Ensure there is no damage to tools.
3. Follow prescribed safety procedures. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure safety guidelines are followed in accordance with standing operating procedure (SOP).
  - b. Ensure safety equipment is used.
  - c. Conduct risk assessment.
4. Practice maintenance discipline. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure motor pool guidelines are followed.
  - b. Follow Environmental Protection Agency (EPA) guidelines.

## Performance Steps

5. Disconnect all applicable fuel lines and fittings. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure all fluids are drained, if needed.
  - b. Ensure lines are capped off.
  - c. Ensure right tools are used.
6. Disconnect all applicable electrical connections. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure batteries are disconnected.
  - b. Label electrical lines, if needed.
7. Remove fuel pump and components. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Tag and label pump for turn-in.
  - b. Ensure all necessary components are disconnected and removed.
8. Inspect tracked vehicle fuel system components, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Check components for debris.
  - b. Ensure all parts are serviceable.
9. Replace fuel pump and components. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Inspect pump for serviceability.
  - b. Ensure pump is the correct one.
10. Connect all applicable fuel lines and fittings. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Uncap lines to connect lines to pump.
  - b. Ensure appropriate tools are used.

**Performance Steps**

11. Connect all applicable electrical connections. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Connect batteries.
  - b. Tighten all parts according to TM.
  
12. Perform a final operational check to verify part was replaced to specifications. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure all fluid levels are to specification.
  - b. Conduct inspection of parts and connections.
  - c. Start vehicle and check for mission readiness.
  
13. Maintain tools and equipment. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure tools are cleaned before storing.
  - b. Clean up any oil and fuel spills.
  
14. Complete DA Form 5988-E, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Annotated correct fault on applicable form.
  - b. Ensure supervisor signs in appropriate block.

**Evaluation Preparation: None**

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. <ol style="list-style-type: none"> <li>a. Identified what TM was used.</li> <li>b. Followed steps outlined in technical publication.</li> </ol>	—	—
2. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> <li>a. Identified applicable tools.</li> <li>b. Ensured there was no damage to tools.</li> </ol>	—	—
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> <li>a. Ensured safety guidelines were followed in accordance with SOP.</li> <li>b. Ensured safety equipment was used.</li> <li>c. Conducted risk assessment.</li> </ol>	—	—

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
4. Practiced maintenance discipline. a. Ensured motor pool guidelines were followed. b. Followed EPA guidelines.	—	—
5. Disconnected all applicable fuel lines and fitting. a. Ensured all fluids were drained, if needed. b. Ensured lines were capped off. c. Ensured right tools were used.	—	—
6. Disconnected all applicable electrical connections. a. Ensured batteries were disconnected. b. Labeled electrical lines, if needed.	—	—
7. Removed fuel pump and components. a. Tagged and label pump for turn-in. b. Ensured all necessary components were disconnected and removed.	—	—
8. Inspected tracked vehicle fuel system components, as required. a. Checked components for debris. b. Ensured all parts are serviceable.	—	—
9. Replaced fuel pump and components. a. Inspected pump for serviceability. b. Ensured pump was the correct one.	—	—
10. Connected all applicable fuel lines and fittings. a. Uncapped lines to connect lines to pump. b. Ensured appropriate tools were used.	—	—
11. Connected all applicable electrical connections. a. Connected batteries. b. Tightened all parts according to TM.	—	—
12. Performed a final operational check to verify part was replaced to specifications. a. Ensured all fluid levels were to specification. b. Conducted inspection of parts and connections. c. Started vehicle and checked for mission readiness.	—	—
13. Maintained tools and equipment. a. Ensured tools were cleaned before storing. b. Cleaned all oil and fuel spills.	—	—
14. Completed DA Form 5988-E, as required. a. Annotated corrected fault on appropriate form. b. Ensured supervisor signed in appropriate block.	—	—

**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 385-10  
AR 750-1  
AR 750-43  
DA FORM 5988-E  
LO 5-5420-226-12  
LO 9-2350-261-12  
TM 5-5420-226-10  
TM 5-5420-226-20-1  
TM 5-5420-226-20-2  
TM 5-5420-226-20-3  
TM 5-5420-226-20-4  
TM 9-1450-500-10  
TM 9-1450-500-20  
TM 9-1450-500-24P  
TM 9-1450-646-10  
TM 9-1450-646-20-1  
TM 9-2350-256-10  
TM 9-2350-256-20-1  
TM 9-2350-256-20-2  
TM 9-2350-256-24P-1  
TM 9-2350-261-10  
TM 9-2350-261-10-HR  
TM 9-2350-261-20-1  
TM 9-2350-261-20-2  
TM 9-2350-261-20-3  
TM 9-2350-261-24P

**Related**

**Maintain Cooling System on a Tracked Vehicle**  
**091-63H-1016**

**Conditions:** In a contemporary operational environment given required equipment, applicable tracked vehicle, general mechanic's tool kit, special tools, test, measurement, and diagnostic equipment (TMDE), necessary safety equipment, replacement parts if needed; and applicable forms and references to include Army regulation (AR) 385-10, AR 750-1, AR 750-43, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), lubrication order (LO) 5-5420-226-12, LO 9-2350-261-12, technical manual (TM) 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-500-24P, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, and TM 9-2350-261-24P.

**Standards:** Maintained tracked vehicle cooling systems in accordance with the applicable TM procedures and specifications. When this task was completed, the vehicle was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Select and use applicable publications. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify which TM will be used.
  - b. Follow steps outlined in TM for deficiency.
2. Select and use correct tools and TMDE. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify applicable tools.
  - b. Ensure tools are not damaged.
3. Follow prescribed safety procedures. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow prescribed safety procedures outlined in the TM. (TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - b. Follow prescribed safety procedures outline in the unit standing operating procedure (SOP).

## Performance Steps

4. Practice maintenance discipline. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow safety guidelines in motor pool.
  - b. Ensure proper safety equipment is utilized.
5. Verify work request. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.
6. Remove tracked vehicle cooling system components. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure all fluid have been drained.
  - b. Use proper tools designed for the job.
  - c. Disconnect all lines and hoses.
  - d. Tag and label part for turn-in.
7. Inspect tracked vehicle cooling system components. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure there is no visible damage to components.
  - b. Inspect gaskets or seals.
8. Clean tracked vehicle cooling system components mounting surface. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Clean any debris that will cause damage to system.
  - b. Clean and spills that have occurred.
  - c. Replace any gaskets or seals that are damaged.

### Performance Steps

9. Replace tracked vehicle cooling system components, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure right system is for the vehicle.
  - b. Use appropriate tools.
  - c. Connect all hoses and lines.
10. Perform a final operational check to verify part was replaced to specifications. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure all fluids have been filled to specification.
  - b. Verify fault has been corrected.
11. Check for leaks. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Start vehicle and run according to TM.
  - b. Perform an after preventive maintenance checks and services (PMCS).
12. Complete DA Form 5988-E, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Annotate correct fault on applicable form.
  - b. Ensure supervisor signs in appropriate block.
  - c. Turn form into Unit Level Logistics System (ULLS) clerk.
13. Maintain tools and equipment. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-2350-261-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-500-20, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Clean tools before storing in storage bin.
  - b. Clean up any fluid spills according to Environmental Protection Agency (EPA).

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. a. Identified which TM was used. b. Followed steps outlined in TM for deficiencies.	—	—
2. Selected and used correct tools and TMDE. a. Identified applicable tools. b. Ensured tools were not damaged.	—	—
3. Followed prescribed safety procedures. a. Followed prescribed safety procedures outlined in the TM. b. Followed prescribed safety procedures outlined in the unit SOP.	—	—
4. Practiced maintenance discipline. a. Followed safety guidelines in motor pool. b. Ensured proper safety equipment was used.	—	—
5. Verified work request. a. Ensured correct deficiency was annotated on DA Form 2404 and DA Form 5988-E. b. Ensured paperwork was in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.	—	—
6. Removed tracked vehicle cooling system components. a. Ensured all fluids were drained. b. Used proper tools designed for the job. c. Disconnected all lines and hoses. d. Tagged and labeled part for turn-in.	—	—
7. Inspected tracked vehicle cooling system components. a. Ensured there was no visible damage to components. b. Inspected gaskets and seals.	—	—
8. Cleaned tracked vehicle cooling system components mounting surface. a. Cleaned any debris that would cause damage to system. b. Cleaned any spills that had occurred. c. Replaced gaskets and seals that were damaged.	—	—
9. Replaced tracked vehicle cooling system components, as required. a. Ensured right system was for the vehicle. b. Used appropriate tools. c. Connected all hoses and lines.	—	—
10. Performed a final operational check to verify part was replaced to specifications. a. Ensured fluids were filled to specification. b. Verified fault was corrected.	—	—
11. Checked for leaks. a. Started vehicle and ran according to TM. b. Performed an after PMCS.	—	—
12. Completed DA Form 5988-E, as required. a. Annotated corrected fault on applicable form. b. Ensured supervisor signed in appropriate block. c. Turned form into ULLS clerk.	—	—

**Performance Measures**

**GO**    **NO-GO**

- 13. Maintained tools and equipment.
  - a. Cleaned tools before storing in storage bin.
  - b. Cleaned up any fluid spills according to EPA.

\_\_\_\_\_

**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 385-10
- AR 750-1
- AR 750-43
- DA FORM 2404
- DA FORM 5988-E
- LO 5-5420-226-12
- LO 9-2350-261-12
- TM 5-5420-226-10
- TM 5-5420-226-20-1
- TM 5-5420-226-20-2
- TM 5-5420-226-20-3
- TM 5-5420-226-20-4
- TM 9-1450-500-10
- TM 9-1450-500-20
- TM 9-1450-500-24P
- TM 9-1450-646-10
- TM 9-1450-646-20-1
- TM 9-2350-256-10
- TM 9-2350-256-20-1
- TM 9-2350-256-20-2
- TM 9-2350-256-24P-1
- TM 9-2350-261-10
- TM 9-2350-261-10-HR
- TM 9-2350-261-20-1
- TM 9-2350-261-20-2
- TM 9-2350-261-20-3
- TM 9-2350-261-24P

**Related**

**Maintain Electrical System on a Tracked Vehicle**  
**091-63H-1017**

**Conditions:** In a contemporary operational environment given required equipment, applicable tracked vehicle, general mechanic's tool kit, special tools, test, measurement, and diagnostic equipment (TMDE), necessary safety equipment, replacement parts if needed; and applicable forms and references including Army regulation (AR) 385-10, AR 750-1, AR 750-43, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), lubrication order (LO) 5-5420-226-12, LO 9-1450-646-12, technical manual (TM) 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, and TM 9-2350-261-24P.

**Standards:** Maintained tracked vehicle electrical system in accordance with the applicable TM procedures and specifications. When this task was completed, the vehicle was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Select and use applicable publication. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2)
  - a. Identify which TM will be used.
  - b. Follow steps outlined in TM.
2. Select and use correct tools and TMDE. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify applicable tools, if required.
  - b. Ensure serviceability of tools.
3. Follow prescribed safety procedures. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow prescribed safety procedures outlined in the TM.
  - b. Follow prescribed safety procedures outlined in the unit standing operating procedure (SOP).

**Performance Steps**

4. Practice shop safety and maintenance discipline. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow motor pool safety guidelines.
  - b. Ensure appropriate safety signs are displayed.
  - c. Ensure another soldier is available for assistance.
  
5. Verify work request. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.
  
6. Conduct troubleshooting of tracked vehicle electrical system and components. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow steps outlined in TM.
  - b. Ensure all electrical components have been checked.
  
7. Replace tracked vehicle electrical system components, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Replace electrical component, if on hand.
  - b. Order any electrical part that is not on hand on correct form.
  - c. Tag and label part for turn in, if needed.
  
8. Perform a final operational check to verify part was replaced to specification. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Start vehicle according to TM and conduct preventive maintenance checks and services (PMCS).
  - b. Ensure all parts are attached correctly.
  - c. Verify fault was corrected, if needed.



**Performance Steps**

9. Maintain tools and equipment. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure all tools are clean and serviceable.
  - b. Clean area after work has been completed.
  
10. Complete The Army Maintenance Management System (TAMMS) forms, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Annotate correct fault on applicable form.
  - b. Ensure supervisor signs in appropriated block.
  - c. Turn form into Unit Level Logistics System (ULLS) clerk.

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. <ol style="list-style-type: none"> <li>a. Identified which TM was used.</li> <li>b. Followed steps outlined in TM.</li> </ol>	_____	_____
2. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> <li>a. Identified applicable tools, if required.</li> <li>b. Ensured serviceability of tools.</li> </ol>	_____	_____
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> <li>a. Followed prescribed safety procedures outlined in the TM.</li> <li>b. Followed prescribed safety procedures outlined in the unit SOP.</li> </ol>	_____	_____
4. Practiced shop safety and maintenance discipline. <ol style="list-style-type: none"> <li>a. Followed motor pool safety guidelines.</li> <li>b. Ensured appropriate safety signs were displayed.</li> <li>c. Ensured another soldier was available for assistance.</li> </ol>	_____	_____
5. Verified work request. <ol style="list-style-type: none"> <li>a. Ensured correct deficiency was annotated on DA Form 2404 and DA Form 5988-E.</li> <li>b. Ensured paperwork was in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.</li> </ol>	_____	_____
6. Conducted troubleshooting of tracked vehicle electrical system and components. <ol style="list-style-type: none"> <li>a. Followed steps outlined in TM.</li> <li>b. Ensured all electrical components have been checked.</li> </ol>	_____	_____
7. Replaced tracked vehicle electrical system components, as required. <ol style="list-style-type: none"> <li>a. Replaced electrical components, if on hand.</li> <li>b. Ordered any electrical part that was not on hand on the correct form.</li> <li>c. Tagged and labeled any component for turn-in.</li> </ol>	_____	_____

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
8. Performed a final operational check to verify part was replaced to specifications.	—	—
a. Started vehicle according to TM and conducted PMCS.		
b. Ensured all parts were attached correctly.		
c. Verified fault was corrected, if needed.		
9. Maintained tools and equipment.	—	—
a. Ensured all tools were cleaned and serviceable.		
b. Cleaned area after work was completed.		
10. Completed TAMMS forms, as required.	—	—
a. Annotated corrected fault on applicable form.		
b. Ensured supervisor signed in appropriated block.		
c. Ensured form was turned into ULLS clerk.		

**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 385-10
- AR 750-1
- AR 750-43
- DA FORM 2404
- DA FORM 5988-E
- LO 5-5420-226-12
- LO 9-1450-646-12
- TM 5-5420-226-10
- TM 5-5420-226-20-1
- TM 5-5420-226-20-2
- TM 5-5420-226-20-3
- TM 5-5420-226-20-4
- TM 9-1450-500-10
- TM 9-1450-646-10
- TM 9-1450-646-20-1
- TM 9-1450-646-20-2
- TM 9-1450-646-20-3
- TM 9-1450-646-20-4
- TM 9-1450-646-20-5
- TM 9-2350-256-10
- TM 9-2350-256-20-1
- TM 9-2350-256-20-2
- TM 9-2350-256-24P-1
- TM 9-2350-261-10
- TM 9-2350-261-10-HR
- TM 9-2350-261-20-1
- TM 9-2350-261-20-2
- TM 9-2350-261-20-3
- TM 9-2350-261-24P

**Related**

## Maintain Suspension System on a Tracked Vehicle

### 091-63H-1018

**Conditions:** In a contemporary operational environment given required equipment, applicable tracked vehicle, general mechanic's tool kit, special tools, test, measurement, and diagnostic equipment (TMDE), necessary safety equipment, replacement parts if needed; and applicable forms and references including Army regulation (AR) 385-10, AR 750-1, AR 750-43, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), technical manual (TM) 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, and TM 9-2350-261-24P.

**Standards:** Maintained tracked vehicle suspension systems in accordance with the applicable TM procedures and specifications. When this task was completed, the vehicle was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

#### Performance Steps

1. Select and use applicable publications. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify which TM will be used.
  - b. Follow steps outline in TM for deficiency.
2. Select and use correct tools and TMDE. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify applicable tools in basic issue items (BII).
  - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow prescribed safety procedures outlined in the TM.
  - b. Follow prescribed safety procedures outlined in the unit standing operating procedure (SOP).
4. Practice maintenance discipline. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow safety guidelines outline in motor pool.
  - b. Ensure proper safety equipment is utilized.
5. Verify work request. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.
6. Inspect tracked vehicle suspension system and components. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure vehicle is chock blocked.
  - b. Ensure parking brake is engaged.
  - c. Check all components are in accordance with TM.

**Performance Steps**

7. Remove defective suspension system components, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure proper tools are used.
  - b. Tag and label defective component for turn-in.
  - c. Ensure another Soldier is available for support.
8. Replace defective suspension system components, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure component is right one for vehicle.
  - b. Ensure proper tools are used.
  - c. Ensure no parts have been cross threaded.
9. Verify fault has been corrected. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Start vehicle and check suspension system.
  - b. Maintain safety at all times.
  - c. Perform a final inspection to ensure component is installed for mission readiness.
10. Maintain tools and equipment. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Clean tools before storing in tool kit.
  - b. Ensure vehicle and area is free of any Environmental Protection Agency (EPA) violations.
11. Complete DA Form 5988-E, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Annotate deficiency was corrected on applicable form.
  - b. Ensure supervisor signs in appropriate block.

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. <ol style="list-style-type: none"> <li>a. Identified which TM was used.</li> <li>b. Followed steps outlined in TM for deficiency.</li> </ol>	_____	_____
2. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> <li>a. Identified applicable tools in BII.</li> <li>b. Ensured tools were serviceable.</li> </ol>	_____	_____
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> <li>a. Followed prescribed safety procedures outlined in the TM.</li> <li>b. Followed prescribed safety procedures outlined in the unit SOP.</li> </ol>	_____	_____
4. Practiced maintenance discipline. <ol style="list-style-type: none"> <li>a. Followed safety guidelines outlined in motor pool.</li> <li>b. Ensured proper safety equipment was used.</li> </ol>	_____	_____

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
5. Verified work request.	—	—
a. Ensured correct deficiency was annotated on DA Form 2404 and DA Form 5988-E.		
b. Ensured paperwork was in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.		
6. Inspected tracked vehicle suspension system and components.	—	—
a. Ensured vehicle was chock blocked.		
b. Ensured parking brake was engaged.		
c. Checked all components were in accordance with TM.		
7. Removed defective suspension system components, as required.	—	—
a. Ensured proper tools were used.		
b. Tagged and labeled defective component for turn-in.		
c. Ensured another soldier was available for support.		
8. Replaced defective suspension system components, as required.	—	—
a. Ensured component was right one for vehicle.		
b. Ensured proper tools were used.		
c. Ensured no part was cross threaded.		
9. Verified fault had been corrected.	—	—
a. Started vehicle and checked suspension system.		
b. Maintained safety at all times.		
c. Performed a final inspection to ensure component was installed for mission readiness.		
10. Maintained tools and equipment.	—	—
a. Cleaned tools before storing in tool kit.		
b. Ensured vehicle and area were free of any EPA violations.		
11. Completed DA Form 5988-E, as required.	—	—
a. Annotated deficiency was corrected on applicable form.		
b. Ensured supervisor signed in appropriate block.		

**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 385-10  
AR 750-1  
AR 750-43  
DA FORM 2404  
DA FORM 5988-E  
TM 9-2350-256-10  
TM 9-2350-256-20-1  
TM 9-2350-256-20-2  
TM 9-2350-256-24P-1  
TM 9-2350-261-10  
TM 9-2350-261-10-HR  
TM 9-2350-261-20-1  
TM 9-2350-261-20-2  
TM 9-2350-261-20-3  
TM 9-2350-261-24P

**Related**

## Maintain Steering/Braking System on a Tracked Vehicle

### 091-63H-1019

**Conditions:** In a contemporary operational environment given required equipment, applicable tracked vehicle, general mechanic's tool kit;, special tools, test, measurement, and diagnostic equipment (TMDE), necessary safety equipment; replacement parts if needed, and applicable forms and references including Department of the Army (DA) 5988-E (Equipment Inspection Maintenance Worksheet), Army regulation (AR) 385-10, AR 750-1, AR 750-43, lubrication order (LO) 5-5420-226-12, technical manual (TM) 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, and TM 9-2350-261-24.

**Standards:** Maintained tracked vehicle steering/braking system in accordance with the applicable TM procedures and specifications. When this task was completed, the vehicle was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

### Performance Steps

1. Select and use applicable publication. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify which TM will be used.
  - b. Follow steps outlined in TM for fault.
2. Select and use correct tools and TMDE. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify applicable tools in basic issue items (BII).
  - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow prescribed safety procedures outlined in the TM.
  - b. Follow prescribed safety procedures outlined in the unit standing operating procedure (SOP).
4. Practice maintenance discipline. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow safety guidelines outlined in the motor pool.
  - b. Ensure proper safety equipment is used.

## Performance Steps

5. Inspect tracked vehicle steering and braking system and components. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow steps outlined in TM.
  - b. Check vehicle for leaks.
  - c. Ensure component is drained of fluids.
  - d. Check vehicle system for any missing components.
6. Remove tracked vehicle steering and brake system components, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Remove component that is damaged.
  - b. Ensure proper safety equipment is used.
  - c. Tag and label part for turn-in.
7. Check tracked vehicle steering and brake system components for leaks. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure parts were tightened to specification.
  - b. Ensure component was filled with appropriate fluid.
  - c. Verify fault had been corrected.
8. Perform a final operational check to verify part was replaced to specifications. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Take vehicle on road test.
  - b. Perform a preventive maintenance checks and services (PMCS).
9. Maintain tools and equipment. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure tools are cleaned and serviceable.
  - b. Ensure vehicle is free of any Environmental Protection Agency (EPA) violations.



**Performance Steps**

10. Complete DA Form 5988-E, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Annotate corrected fault on applicable form.
  - b. Ensure supervisor signs in appropriate block.

**Evaluation Preparation: None**

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. <ol style="list-style-type: none"> <li>a. Identified which TM was used.</li> <li>b. Followed steps outlined in TM for fault.</li> </ol>	—	—
2. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> <li>a. Identified applicable tools in BII.</li> <li>b. Ensured tools were serviceable.</li> </ol>	—	—
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> <li>a. Followed prescribed safety procedures outlined in the TM.</li> <li>b. Followed prescribed safety procedures outlined in the unit SOP.</li> </ol>	—	—
4. Practiced maintenance discipline. <ol style="list-style-type: none"> <li>a. Followed safety guidelines outlined in motor pool.</li> <li>b. Ensured proper safety equipment was used.</li> </ol>	—	—
5. Inspected tracked vehicle steering and braking system and components. <ol style="list-style-type: none"> <li>a. Followed steps outlined in technical manual.</li> <li>b. Checked vehicle for leaks.</li> <li>c. Ensured component is drained of fluids.</li> <li>d. Checked vehicle system for any missing components.</li> </ol>	—	—
6. Removed tracked vehicle steering and brake system components, as required. <ol style="list-style-type: none"> <li>a. Removed component that was damaged.</li> <li>b. Ensured proper safety equipment was used.</li> <li>c. Tagged and labeled part for turn-in.</li> </ol>	—	—
7. Checked tracked vehicle steering and brake system components for leaks. <ol style="list-style-type: none"> <li>a. Ensured parts were tightened to specification.</li> <li>b. Ensured component was filled with appropriate fluid.</li> <li>c. Verified fault was corrected.</li> </ol>	—	—
8. Performed a final operational check to verify part was replaced to specifications. <ol style="list-style-type: none"> <li>a. Took vehicle on road test.</li> <li>b. Performed a PMCS.</li> </ol>	—	—
9. Maintained tools and equipment. <ol style="list-style-type: none"> <li>a. Ensured tools were cleaned and serviceable.</li> <li>b. Ensured vehicle was free of any EPA violations.</li> </ol>	—	—
10. Completed DA Form 5988-E, as required. <ol style="list-style-type: none"> <li>a. Annotated corrected fault on applicable form.</li> <li>b. Ensured supervisor signed in appropriate block.</li> </ol>	—	—

**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 385-10  
AR 750-1  
AR 750-43  
DA FORM 5988-E  
LO 5-5420-226-12  
LO 9-1450-646-12  
TM 5-5420-226-10  
TM 5-5420-226-20-1  
TM 5-5420-226-20-2  
TM 5-5420-226-20-3  
TM 5-5420-226-20-4  
TM 9-1450-500-10  
TM 9-1450-646-10  
TM 9-1450-646-20-1  
TM 9-1450-646-20-2  
TM 9-1450-646-20-3  
TM 9-1450-646-20-4  
TM 9-1450-646-20-5  
TM 9-2350-256-10  
TM 9-2350-256-20-1  
TM 9-2350-256-20-2  
TM 9-2350-261-10  
TM 9-2350-261-10-HR  
TM 9-2350-261-20-1  
TM 9-2350-261-20-2  
TM 9-2350-261-20-3

**Related**

**Maintain Hydraulic System on a Tracked Vehicle**  
**091-63H-1020**

**Conditions:** In a contemporary operational environment given required equipment, applicable tracked vehicle, general mechanic's tool kit, special tools, test, measurement, and diagnostic equipment (TMDE), necessary safety equipment, replacement parts if needed; and applicable forms and references including Department of the Army (DA) Form 5988-E (Equipment Inspection Maintenance Worksheet), Army regulation (AR) 385-10, AR 750-1, AR 750-43, lubrication order (LO) 5-5420-226-12, technical manual (TM) 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, and TM 9-2350-261-24P.

**Standards:** Maintained tracked vehicle hydraulic system in accordance with the applicable TM procedures and specifications. When this task was completed, the vehicle was fully mission capable or maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Select and use applicable publications. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify which TM will be used.
  - b. Follow steps outline in TM for deficiency.
2. Select and use correct tools and TMDE. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify applicable tools in basic issue items (BII).
  - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow prescribed safety procedures outlined in the TM.
  - b. Follow prescribed safety procedures outlined in unit standing operating procedure (SOP).
4. Verify work request. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure deficiency was annotated on DA Form 5988-E.
  - b. Ensure paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.

## Performance Steps

5. Inspect tracked vehicle hydraulic system and components. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure all fluids have been drained, as required.
  - b. Ensure there is no extensive damage.
6. Remove tracked vehicle hydraulic system components, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure proper tools are used.
  - b. Inspect gaskets and seals for any damage.
  - c. Tag and label component for turn-in.
  - d. Change over usable parts from old component.
  - e. Disconnect hoses and lines, if required.
7. Replace tracked vehicle hydraulic system components, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure area is clean before installing component.
  - b. Replace any worn or torn hoses and lines, if required.
  - c. Ensure new gaskets and seals have been replaced, if required.
  - d. Tighten components and parts to specification.
8. Check for leaks. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Start vehicle and engage hydraulics.
  - b. Shift controls to see if they work.
9. Perform a final operational check to verify part was replaced to specification. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Conduct a road test.
  - b. Verify fault was corrected.

**Performance Steps**

10. Maintain tools and equipment. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure tools are cleaned and serviceable.
  - b. Ensure vehicle is free of any Environmental Protection Agency (EPA) violations.
11. Complete DA Form 5988-E, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, LO 5-5420-226-12, LO 9-1450-646-12, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-500-10, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Annotate corrected fault on applicable form.
  - b. Ensure supervisor signs form, if required.

**Evaluation Preparation: None**

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. <ol style="list-style-type: none"> <li>a. Identified which technical manual was used.</li> <li>b. Followed steps outlined in technical manual for deficiency.</li> </ol>	—	—
2. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> <li>a. Identified applicable tools in BII.</li> <li>b. Ensured tools were serviceable.</li> </ol>	—	—
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> <li>a. Followed prescribed safety procedures outlined in the technical manual.</li> <li>b. Followed prescribed safety procedures outlined in unit SOP.</li> </ol>	—	—
4. Verified work request. <ol style="list-style-type: none"> <li>a. Ensured deficiency was annotated on DA Form 5988-E.</li> <li>b. Ensured paperwork was in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.</li> </ol>	—	—
5. Inspected tracked vehicle hydraulic system and components. <ol style="list-style-type: none"> <li>a. Ensured all fluids were drained, as required.</li> <li>b. Ensured there was no extensive damage.</li> </ol>	—	—
6. Removed tracked vehicle hydraulic system components, as required. <ol style="list-style-type: none"> <li>a. Ensured proper tools were used.</li> <li>b. Inspected gaskets and seals for any damage.</li> <li>c. Tagged and labeled components for turn-in.</li> <li>d. Changed over usable parts from old component.</li> <li>e. Disconnected hoses and lines, if required.</li> </ol>	—	—
7. Replaced tracked vehicle hydraulic system components, as required. <ol style="list-style-type: none"> <li>a. Ensured area was cleaned before installing component.</li> <li>b. Replaced any worn or torn hoses and lines, if required.</li> <li>c. Ensured new gaskets and seals have been replaced, if required.</li> <li>d. Tightened components and parts to specification.</li> </ol>	—	—

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
8. Checked for leaks.	_____	_____
a. Started vehicle and engaged hydraulics.		
b. Shifted controls to see if they work.		
9. Performed a final operational check to verify part was replaced to specifications.	_____	_____
a. Conducted a road test.		
b. Verified fault was corrected.		
10. Maintained tools and equipment.	_____	_____
a. Ensured tools were cleaned and serviceable.		
b. Ensured vehicle was free of any EPA violations.		
11. Completed DA Form 5988-E, as required.	_____	_____
a. Annotated corrected fault on applicable form.		
b. Ensured supervisor signed form, if required.		

**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 385-10
- AR 750-1
- AR 750-43
- DA FORM 5988-E
- LO 5-5420-226-12
- LO 9-1450-646-12
- TM 5-5420-226-10
- TM 5-5420-226-20-1
- TM 5-5420-226-20-2
- TM 5-5420-226-20-3
- TM 5-5420-226-20-4
- TM 9-1450-500-10
- TM 9-1450-646-10
- TM 9-1450-646-20-1
- TM 9-1450-646-20-2
- TM 9-1450-646-20-3
- TM 9-1450-646-20-4
- TM 9-1450-646-20-5
- TM 9-2350-256-10
- TM 9-2350-256-20-1
- TM 9-2350-256-20-2
- TM 9-2350-261-10
- TM 9-2350-261-10-HR
- TM 9-2350-261-20-1
- TM 9-2350-261-20-2
- TM 9-2350-261-20-3

**Related**

**Maintain Fire Extinguisher/Suppression System on a Tracked Vehicle**  
**091-63H-1021**

**Conditions:** In a contemporary operational environment given required equipment, applicable tracked vehicle, general mechanic's tool kit, special tools, test, measurement, and diagnostic equipment (TMDE), necessary safety equipment; replacement parts if needed; and applicable forms and references including Department of the Army (DA) Form 5988-E (Equipment Inspection Maintenance Worksheet), Army regulation (AR) 385-10, AR 750-1, AR 750-43, technical manual (TM) 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, and TM 9-2350-256-24P-1.

**Standards:** Maintained tracked vehicle fire extinguisher/suppression system in accordance with the applicable TM procedures and specifications. When this task was completed, the vehicle was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Select and use applicable publications. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Identify which TM was used.
  - b. Follow step outlined in TM for deficiency.
2. Select and use correct tools and TMDE. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Identify applicable tools in basic issue items (BII).
  - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Follow prescribed safety procedures outlined in the TM.
  - b. Follow prescribed safety procedures outlined in unit standing operating procedure (SOP).
4. Practice maintenance discipline. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Follow safety guidelines outlined in the motor pool.
  - b. Ensure proper safety equipment is used.
5. Verify work request. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Ensure deficiency was annotated on DA Form 5988-E.
  - b. Ensure paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.
6. Inspect tracked vehicle fire extinguisher/suppression system and components. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Follow steps outlined in TM.
  - b. Check equipment for inspection date.
  - c. Check hoses and lines for serviceability.
  - d. Remove component and tag for turn-in.
7. Replace tracked vehicle fire extinguisher/suppression system and components. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Ensure component is filled.
  - b. Ensure component is label correctly.
  - c. Ensure appropriate tools are used.

**Performance Steps**

8. Perform a final operational check to verify part was replaced to specification. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Engage system for serviceability.
  - b. Verify fault has been corrected.
9. Check for leaks. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Ensure all hoses and lines are hooked properly.
  - b. Perform a preventive maintenance checks and services (PMCS).
10. Maintain tools and equipment. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Ensure all tools are cleaned.
  - b. Ensure equipment is cleaned.
11. Complete DA Form 5988-E, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Annotated corrected fault on appropriate form.
  - b. Ensure supervisor signs in appropriate block.

**Evaluation Preparation:** None

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable publications.	_____	_____
a. Identified which TM was used.		
b. Followed steps outlined in TM for deficiency.		
2. Selected and used correct tools and TMDE.	_____	_____
a. Identified applicable tools in BII.		
b. Ensured tools are serviceable.		
3. Followed prescribed safety procedures.	_____	_____
a. Followed prescribed safety procedures outlined in the TM.		
b. Followed prescribed safety procedures outlined in unit SOP.		
4. Practiced maintenance discipline.	_____	_____
a. Followed safety guidelines outlined in motor pool.		
b. Ensured proper safety equipment was used.		
5. Verified work request.	_____	_____
a. Ensured deficiency was annotated on DA Form 5988-E.		
b. Ensured paperwork was in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.		
6. Inspected tracked vehicle fire extinguisher/suppression system and components.	_____	_____
a. Followed steps outlined in TM.		
b. Checked equipment for inspection date.		
c. Checked hoses and lines for serviceability.		
d. Removed component and tagged for turn-in.		



<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
7. Replaced tracked vehicle fire extinguisher/suppression system components, as required.	—	—
a. Ensured component was filled.		
b. Ensured component was labeled correctly.		
c. Ensured appropriate tools were used.		
8. Performed a final operational check to verify part was replaced to specifications.	—	—
a. Engaged system for serviceability.		
b. Verified fault was corrected.		
9. Checked for leaks.	—	—
a. Ensured all hoses and lines were hooked properly.		
b. Performed a PMCS.		
10. Maintained tools and equipment.	—	—
a. Ensured all tools were cleaned.		
b. Ensured equipment was cleaned.		
11. Completed DA Form 5988-E, as required.	—	—
a. Annotated corrected fault on appropriate form.		
b. Ensured supervisor signed in appropriate block.		

**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 385-10
- AR 750-1
- AR 750-43
- DA FORM 5988-E
- TM 9-2350-256-10
- TM 9-2350-256-20-1
- TM 9-2350-256-20-2
- TM 9-2350-256-24P-1

**Related**

**Maintain Auxiliary Power Unit (APU) System on a Tracked Vehicle**  
**091-63H-1022**

**Conditions:** In a contemporary operational environment given required equipment, applicable tracked vehicle, general mechanic's tool kit, special tools, test, measurement, and diagnostic equipment (TMDE), necessary safety equipment; replacement parts if needed; and applicable forms and references including Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), Army regulation (AR) 385-10, AR 750-1, AR 750-43, technical manual (TM) 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, and TM 9-2350-256-24P-1.

**Standards:** Maintained M88A1 tracked vehicle Auxiliary Power Unit (APU) in accordance with the applicable TM procedures and specifications. When this task was completed, the vehicle was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Select and use applicable publications. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Identify which TM will be used.
  - b. Follow steps outlined in TM for fault.
2. Select and use correct tools and TMDE. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Identify applicable tools in basic issue items (BII).
  - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Follow prescribed safety procedures outlined in the TM.
  - b. Follow prescribed safety procedures outline in the unit standing operating procedure (SOP).
4. Practice maintenance discipline. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Follow safety guidelines outlined in the motor pool.
  - b. Ensure proper safety equipment is used.
5. Verified work request. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Ensure correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.
6. Inspect tracked vehicle APU system and components. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Inspect APU system and components for visible damage, in accordance with TM.
  - b. Check for any leaks.
7. Troubleshoot APU system on tracked vehicle fuel system. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Troubleshoot APU system in accordance with TM.
  - b. Check for any leaks.
8. Remove tracked vehicle APU system components, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Ensure appropriate tools are used.
  - b. Disconnect all lines and hoses.
  - c. Tag and label component for turn-in.

**Performance Steps**

9. Replace tracked vehicle APU system components, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Ensure appropriate tools are used.
  - b. Follow steps outlined in TM.
  - c. Verify fault has been corrected.
10. Perform a final operational check to verify part was replaced to specification. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Ensure all lines and hoses are attached properly.
  - b. Inspect vehicle for leaks.
  - c. Start vehicle and run test in accordance with TM.
11. Maintain tools and equipment. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Ensure all tools are cleaned and serviceable.
  - b. Ensure equipment and area are free of any Environmental Protection Agency (EPA) violations.
12. Complete DA Form 5988-E, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2)
  - a. Annotated corrected fault on appropriate form.
  - b. Ensure supervisor signs in appropriate block.
  - c. Turn form into Unit Level Logistics System (ULLS) clerk.

**Evaluation Preparation:** None

**Performance Measures**

	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications.	_____	_____
a. Identified which TM was used.		
b. Followed steps outlined in the TM for fault.		
2. Selected and used correct tools and TMDE.	_____	_____
a. Identified applicable tools in BII.		
b. Ensured tools are serviceable.		
3. Followed prescribed safety procedures.	_____	_____
a. Followed prescribed safety procedures outlined in the TM.		
b. Followed prescribed safety procedures outlined in the unit SOP.		
4. Practiced maintenance discipline.	_____	_____
a. Followed safety guidelines outlined in the motor pool.		
b. Ensured proper safety equipment was used.		
5. Verified work request.	_____	_____
a. Ensured correct deficiency was annotated on DA Form 2404 and DA Form 5988-E.		
b. Ensured paperwork was in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.		
6. Inspected tracked vehicle APU system and components.	_____	_____
a. Inspected APU system and components for visible damage, in accordance with TM.		
b. Checked for leaks.		

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
7. Troubleshoot APU system on tracked vehicle fuel system. a. Troubleshot APU system in accordance with TM. b. Checked for any leaks.	—	—
8. Removed tracked vehicle APU system components, as required. a. Ensured appropriate tools were used. b. Disconnected all lines and hoses. c. Tagged and labeled component for turn-in.	—	—
9. Replaced tracked vehicle APU system components, as required. a. Ensured appropriate tools were used. b. Followed steps outlined in TM. c. Verified fault was corrected.	—	—
10. Performed a final operational check to verify part was replaced to specifications. a. Ensured all lines and hoses were attached properly. b. Inspected vehicle for leaks. c. Started vehicle and run test in accordance with TM.	—	—
11. Maintained tools and equipment. a. Ensured all tools were cleaned and serviceable. b. Ensured equipment and area were free of any EPA violations.	—	—
12. Completed DA Form 5988-E, as required. a. Annotated corrected fault on appropriate form. b. Ensured supervisor signs in appropriate block. c. Turned form into ULLS clerk.	—	—

**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 385-10	
AR 750-1	
AR 750-43	
DA FORM 2404	
DA FORM 5988-E	
TM 9-2350-256-10	
TM 9-2350-256-20-1	
TM 9-2350-256-20-2	
TM 9-2350-256-24P-1	

**Replace Control Differential on a Tracked Vehicle**  
**091-63H-1023**

**Conditions:** In a contemporary operational environment given required equipment, applicable tracked vehicle, general mechanic's tool kit, special tools, test, measurement, and diagnostic equipment (TMDE), necessary safety equipment; replacement parts if needed; and applicable forms and references including Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), Army regulation (AR) 385-10, AR 750-1, AR 750-43, technical manual (TM) 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, and TM 9-2350-261-24P.

**Standards:** Replaced control differential on a tracked vehicle in accordance with the applicable TM procedures and specifications. When this task was completed, the vehicle was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Select and use applicable publications. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify which TM will be used.
  - b. Follow steps outlined in TM for fault.
2. Select and use correct tools and TMDE. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify applicable tools in basic issue items (BII).
  - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow prescribed safety procedures outlined in TM.
  - b. Follow prescribed safety procedures outlined in unit standing operating procedure (SOP).
4. Practice maintenance discipline. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow safety guidelines outlined in motor pool.
  - b. Ensure proper safety equipment is used.
5. Verify work request. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.
6. Inspect tracked vehicle control differential. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Check to see if there is any visible damage.
  - b. Follow steps outlined in TM.

**Performance Steps**

7. Remove tracked vehicle differential and components, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure proper tool is used for the job.
  - b. Disconnect any lines and fittings.
  - c. Tag and label parts for turn-in.
8. Replace tracked vehicle control differential and components, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure proper tools are used.
  - b. Reconnect lines and fittings.
  - c. Ensure no components were cross threaded.
  - d. Check for any leaks.
9. Perform a final operational check to verify part was replaced to specifications. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Verify fault was corrected.
  - b. Ensure components were tightened to specification.
  - c. Follow steps outlined in TM to test component.
10. Maintain tools and equipment. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure tools are cleaned and serviceable.
  - b. Ensure tools are stored properly.
  - c. Ensure equipment and area are free of Environmental Protection Agency (EPA) violations.
11. Complete The Army Maintenance Management System (TAMMS) forms, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Annotate corrected fault on applicable forms.
  - b. Ensure supervisor signs in appropriate blocks.
  - c. Ensure forms are turned into Unit Level Logistics System (ULLS) clerk.

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. <ol style="list-style-type: none"> <li>a. Identified which TM was used.</li> <li>b. Followed steps outlined in the TM for fault.</li> </ol>	—	—
2. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> <li>a. Identified applicable tools in BII.</li> <li>b. Ensured tools were serviceable.</li> </ol>	—	—
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> <li>a. Followed prescribed safety procedures outlined in TM.</li> <li>b. Followed prescribed safety procedures outlined in unit SOP.</li> </ol>	—	—
4. Practiced maintenance discipline. <ol style="list-style-type: none"> <li>a. Followed safety procedures outlined in motor pool.</li> <li>b. Ensured proper safety equipment was used.</li> </ol>	—	—

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
5. Verified work request.	—	—
a. Ensured correct deficiency was annotated on DA Form 2404 and DA Form 5988-E.		
b. Ensured paperwork was in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.		
6. Inspected tracked vehicle control differential.	—	—
a. Checked to see if there was any visible damage.		
b. Followed steps outlined in TM.		
7. Removed tracked vehicle control differential and components, as required.	—	—
a. Ensured proper tools were used for the job.		
b. Disconnected any lines and fittings.		
c. Tagged and labeled parts for turn-in.		
8. Replaced tracked vehicle control differential and components, as required.	—	—
a. Ensured proper tools were used.		
b. Reconnected lines and fittings.		
c. Ensured no components were cross threaded.		
9. Performed a final operational check to verify part was replaced to specifications.	—	—
a. Verified fault was corrected.		
b. Ensured components were tightened to specification.		
c. Followed steps outlined in TM to test component.		
10. Maintained tools and equipment.	—	—
a. Ensured tools were cleaned and serviceable.		
b. Ensured tools were stored properly.		
c. Ensured equipment and area were free of EPA violations.		
11. Completed TAMMS forms, as required.	—	—
a. Annotated corrected fault on applicable forms.		
b. Ensured supervisor signed in appropriate blocks.		
c. Ensured forms were turned into ULLS clerk.		

**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 385-10	
AR 750-1	
AR 750-43	
DA FORM 2404	
DA FORM 5988-E	
TM 9-2350-261-10	
TM 9-2350-261-10-HR	
TM 9-2350-261-20-1	
TM 9-2350-261-20-2	
TM 9-2350-261-20-3	
TM 9-2350-261-24P	

**Perform Engine Tune-Up Procedures on a Tracked Vehicle**  
**091-63H-1024**

**Conditions:** In a contemporary operational environment given required equipment, applicable tracked vehicle, general mechanic's tool kit, special tools, test, measurement, and diagnostic equipment (TMDE), necessary safety equipment; replacement parts if needed; and applicable forms and references including Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), Army regulation (AR) 385-10, AR 750-1, AR 750-43, lubrication order (LO) 5-5420-226-12, technical manual (TM) 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2350-261-24P, TM 9-2815-219-34, and TM 9-2815-220-24.

**Standards:** Performed engine tune-up on a tracked vehicle in accordance with the applicable TM procedures and specifications. When this task was completed, the vehicle was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Select and use applicable publications. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify which TM will be used.
  - b. Follow steps outlined in TM for fault.
2. Select and use correct tools and TMDE. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Identify applicable tools in basic issue items (BII).
  - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow prescribed safety procedures outlined in TM.
  - b. Follow prescribed safety procedures outlined in unit standing operating procedure (SOP).
4. Practice maintenance discipline. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow safety guidelines outlined in motor pool.
  - b. Ensure proper safety equipment is used.



## Performance Steps

5. Verify work request. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.
6. Perform required preventive maintenance checks and services (PMCS). (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Follow steps outlined in TM.
  - b. Ensure any deficiencies are annotated or corrected on the spot.
7. Conduct troubleshooting of diesel engine on tracked vehicle. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure vehicle is chock blocked.
  - b. Start vehicle and conduct test as outlined in TM.
8. Remove tracked vehicle engine components as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure proper tools are used.
  - b. Disconnect any lines and fittings, if required.
  - c. Follow steps outlined in TM.
  - d. Tag and label part for turn-in, if needed.
9. Replace tracked vehicle engine components as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure component is right one for the job.
  - b. Tighten parts to specification as required by TM.
  - c. Ensure no component is cross threaded.
10. Perform a final operational check to verify part was replaced to specification. (AR 385-10, AR 750-1, AR 750-43, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Start vehicle and adjust components as specified in TM.
  - b. Verify fault has been corrected.

**Performance Steps**

11. Maintain tools and equipment. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Ensure tools are cleaned and serviceable.
  - b. Ensure area is cleaned in accordance with Environmental Protection Agency (EPA).
  - c. Store tools back in proper compartment.
  
12. Complete DA Form 5988-E, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 5-5420-226-10, TM 5-5420-226-20-1, TM 5-5420-226-20-2, TM 5-5420-226-20-3, TM 5-5420-226-20-4, TM 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-1450-646-BD, TM 9-2350-261-10, TM 9-2350-261-10-HR, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3)
  - a. Annotate corrected fault on appropriate document.
  - b. Ensure supervisor signs in appropriate block.
  - c. Ensure paperwork is turned into Unit Level Logistics System (ULLS) clerk.

**Evaluation Preparation: None**

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. <ol style="list-style-type: none"> <li>a. Identified which TM was used.</li> <li>b. Followed steps outlined in TM.</li> </ol>	_____	_____
2. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> <li>a. Identified applicable tools in BII.</li> <li>b. Ensured tools were serviceable.</li> </ol>	_____	_____
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> <li>a. Followed prescribed safety procedures outlined in the TM.</li> <li>b. Followed prescribed safety procedures outlined in unit SOP.</li> </ol>	_____	_____
4. Practiced maintenance discipline. <ol style="list-style-type: none"> <li>a. Followed safety guidelines outlined in motor pool.</li> <li>b. Ensured proper safety equipment was used.</li> </ol>	_____	_____
5. Verified work request. <ol style="list-style-type: none"> <li>a. Ensured correct deficiency was annotated on DA Form 2404 and DA Form 5988-E.</li> <li>b. Ensured paperwork was in accordance with DA Pamphlet 738-750 and DA Pamphlet 738-751.</li> </ol>	_____	_____
6. Performed required PMCS. <ol style="list-style-type: none"> <li>a. Followed steps outlined in TM.</li> <li>b. Ensured any deficiencies were annotated or corrected on the spot.</li> </ol>	_____	_____
7. Conducted troubleshooting of diesel engine on tracked vehicle. <ol style="list-style-type: none"> <li>a. Ensured vehicle was chocked blocked.</li> <li>b. Started vehicle and conducted test as outlined in TM.</li> </ol>	_____	_____

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
8. Removed tracked vehicle engine components as required.	—	—
a. Ensured proper tools were used.		
b. Disconnected any lines and fittings, if required.		
c. Followed steps outlined in TM.		
d. Tagged and labeled part for turn-in, if needed.		
9. Replaced tracked vehicle engine components as required.	—	—
a. Ensured component was right one for the job.		
b. Tightened parts to specification as required by TM.		
c. Ensured no component was cross threaded.		
10. Performed a final operational check to verify part was replaced to specifications.	—	—
a. Started vehicle and adjusted components as specified in TM.		
b. Verified fault was corrected.		
11. Maintained tools and equipment.	—	—
a. Ensured tools were cleaned and serviceable.		
b. Ensured area was cleaned in accordance with EPA.		
c. Stored tools back in proper compartment.		
12. Completed DA Form 5988-E, as required.	—	—
a. Annotated corrected fault on appropriate document.		
b. Ensured supervisor signed in appropriate block.		
c. Ensured paperwork was turned into ULLS clerk.		

**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 385-10
- AR 750-1
- AR 750-43
- DA FORM 2404
- DA FORM 5988-E
- LO 5-5420-226-12
- TM 5-5420-226-10
- TM 5-5420-226-20-1
- TM 5-5420-226-20-2
- TM 5-5420-226-20-3
- TM 5-5420-226-20-4
- TM 9-1450-646-10
- TM 9-1450-646-20-1
- TM 9-1450-646-20-2
- TM 9-1450-646-20-3
- TM 9-1450-646-20-4
- TM 9-1450-646-20-5
- TM 9-1450-646-BD
- TM 9-2350-261-10
- TM 9-2350-261-10-HR
- TM 9-2350-261-20-1
- TM 9-2350-261-20-2
- TM 9-2350-261-20-3

**Related**

**References**

**Required**

TM 9-2350-261-24P

TM 9-2815-219-34

TM 9-2815-220-24

**Related**

Subject Area 3: ASI (H8) Recovery Tasks

**Operate Metal Cutting Equipment  
091-H8C-2004**

**Conditions:** In a contemporary operational environment given a representative recovery vehicle; required materials; general mechanic's tool kit; training circular (TC) 9-237, and applicable recovery vehicle technical manuals (TMs); TM 9-2320-279-10-1, TM 9-2320-279-10-2, TM 9-2320-279-20-1, TM 9-2320-279-20-2, and TM 9-2320-279-20-3.

**Standards:** Stated the procedures for installing, operating, and using correct radio procedures for clear, concise, and secure communications in accordance with the appropriate publications.

**Performance Steps**

1. Select and use applicable publications.
2. Determine the method to cut metal.
3. Prepare metal cutting equipment, as required.
4. Cut metal.
5. Secure metal cutting equipment.
6. Follow prescribed safety procedures.

**Performance Measures**

1. Selected and used applicable publications.
2. Determined the method to cut metal.
3. Prepared metal cutting equipment, as required.
4. Cut metal.
5. Secured metal cutting equipment.
6. Followed prescribed safety procedures.

<u>GO</u>	<u>NO-GO</u>
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—	—
—	—
—	—
—	—

**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**

- TC 9-237
- TM 9-2320-279-10-1
- TM 9-2320-279-10-2
- TM 9-2320-279-20-1
- TM 9-2320-279-20-2
- TM 9-2320-279-20-3

**Related**

- AR 385-10
- AR 750-1
- DA PAM 750-8
- TC 43-35
- TM 9-2320-366-10-1
- TM 9-2320-366-10-2
- TM 9-2350-256-10
- TM 9-243

**Locate a Recovery Site**  
**091-H8C-2001**

**Conditions:** In a contemporary operational environment given a representative wheel vehicle (M984 series), required materials, general mechanic's tool kit, and applicable references including field manual (FM) 21-31, FM 3-25.26, technical manual (TM) 9-2320-279-10-1, TM 9-2320-279-10-2, TM 9-2320-279-20-1, TM 9-2320-279-20-2, and TM 9-2320-279-20-3.

**Standards:** Located a recovery site to within 10 meters and identified primary and alternate recovery routes determining distance for both with no greater than a 10 percent error.

**Performance Steps**

1. Select and use applicable publications.
2. Identify terrain features.
3. Identify map symbols and colors.
4. Locate site using military grid reference system.
5. Calculate distance.

**Performance Measures**

1. Selected and used applicable publications.
2. Identified terrain features.
3. Identified map symbols and colors.
4. Located site using military grid reference system.
5. Calculated distance.

<u>GO</u>	<u>NO-GO</u>
—	—
—	—
—	—
—	—
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**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 3-25.26
- FM 21-31
- TM 9-2320-279-10-1
- TM 9-2320-279-10-2
- TM 9-2320-279-20-1
- TM 9-2320-279-20-2
- TM 9-2320-279-20-3

**Related**

- TC 43-35

**Determine Recovery Methods  
091-H8C-2002**

**Conditions:** In a contemporary operational environment given a representative recovery vehicle , required materials, general mechanic's tool kit, and applicable references including field manual (FM) 5-125, training circular (TC) 43-35, and recovery vehicle technical manuals (TMs); TM 9-2320-279-10-1, TM 9-2320-279-10-2, TM 9-2320-279-20-1, TM 9-2320-279-20-2, and TM 9-2320-279-20-3.

**Standards:** Determined recovery methods, source of effort, and mechanical advantage needed in accordance with references.

**Performance Steps**

1. Select and use applicable publications.
2. Reconnoiter area.
3. Estimate situation.
4. Calculate ratios.
5. Obtain resistance.
6. Verify solution.
7. Erect rigging.
8. Recheck rigging.

**Performance Measures**

1. Selected and used applicable publications.
2. Reconnoitered area.
3. Estimated situation.
4. Calculated ratios.
5. Obtained resistance.
6. Verified solution.
7. Erected rigging.
8. Rechecked rigging.

<u>GO</u>	<u>NO-GO</u>
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**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 5-125
- TC 43-35
- TM 9-2320-279-10-1
- TM 9-2320-279-10-2
- TM 9-2320-279-20-1
- TM 9-2320-279-20-2
- TM 9-2320-279-20-3

**Related**

- TM 9-2320-272-10
- TM 9-2350-256-10

**Operate Tactical Communications Equipment  
091-H8C-2003**

**Conditions:** In a contemporary operational environment given a representative wheel vehicle (M984 series), required materials, general mechanic's tool kit, technical manual (TM) 11-5820-890-10-3, TM 9-2320-279-10-1, TM 9-2320-279-10-2, TM 9-2320-279-20-1, TM 9-2320-279-20-2, and TM 9-2320-279-20-3; and other applicable publications.

**Standards:** Stated the procedures for installing, operating, and using correct radio procedures for clear, concise, and secure communications in accordance with the appropriate publications.

**Performance Steps**

1. Select and use applicable publications.
2. Prepare communications equipment for operation.
3. Send tactical communications.
4. Receive tactical communications
5. Shut down tactical communications operation.
6. Follow prescribed safety procedures.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable publications.	—	—
2. Prepared communications equipment for operation.	—	—
3. Sent tactical communications.	—	—
4. Received tactical communications.	—	—
5. Shut down tactical communications operation.	—	—
6. Followed prescribed safety procedures.	—	—

**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**

- TM 9-2320-279-10-1
- TM 9-2320-279-10-2
- TM 9-2320-279-20-1
- TM 9-2320-279-20-2
- TM 9-2320-279-20-3
- TM 11-5820-890-10-3

**Related**

- TC 43-35
- TM 11-5820-401-10-1
- TM 11-5820-401-10-2
- TM 11-5820-401-10-4
- TM 11-5830-340-12



**Maintain Recovery Vehicle Weapons**  
**091-H8T-2001**

**Conditions:** In a contemporary operational environment given a representative tracked vehicle (M88 series), required materials, general mechanic's tool kit, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), technical manual (TM) 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-256-24P-2, and other applicable publications.

Note: If representative equipment is not available, use applicable equipment and associated references.

**Standards:** Maintained the M88 series vehicle weapons in accordance with the preventive maintenance checks and services (PMCS) table and procedures and specifications of the applicable TM.

**Performance Steps**

1. Select and use applicable publication. (TM 9-2350-256-10)
  - a. Ensure appropriate TM is used.
  - b. Ensure steps are followed outlined in the TM.
2. Use proper safety methods. (TM 9-2350-256-10)
  - a. Ensure proper safety methods are followed.
  - b. Follow prescribed safety precautions outlined in TM.
3. Disassemble machine gun. (TM 9-2350-256-10)
  - a. Ensure machine gun is on safe.
  - b. Lock bolt to the rear
  - c. Ensure weapon is clear.
  - d. Follow steps outline in the TM.
4. Check for broken or missing parts. (TM 9-2350-256-10)
  - a. Separate machine gun components.
  - b. Visually inspect each machine gun component for damage.
  - c. Tag and label any parts for turn-in.
  - d. Ensure DA Form 2404 (Equipment Inspection and Maintenance Worksheet) or DA Form 5988-E (Equipment Inspection Maintenance Worksheet) has been filled out.
5. Ensure all parts are cleaned and lubricated. (TM 9-2350-256-10)
  - a. Clean each machine gun component.
  - b. Follow lubrication procedures outline in the TM.
6. Assemble machine gun. (TM 9-2350-256-10)
  - a. Locate and identify machine gun components to be assembled.
  - b. Follow assemble procedures outline within the TM.
7. Set head-space and timing. (TM 9-2350-256-10)
  - a. Ensure proper tools are used.
  - b. Follow procedures outlined in the TM for setting head-space and timing.
  - c. Verify head-space and timing settings.
8. Inspect machine gun mount for missing, cracks, or broken parts. (TM 9-2350-256-10)
  - a. Follow proper procedures outlined in the TM.
  - b. Tag and label any broken parts for turn-in.
  - c. Ensure part has been requisitioned on proper paperwork.
9. Ensure launcher tubes are free of rust, dirt and corrosion. (TM 9-2350-256-10)
  - a. Follow proper procedures outlined in the TM.
  - b. Remove any rust, dirt and corrosion found within or on launcher tubes.

**Performance Steps**

10. Ensure that grenade launcher wiring harness connectors are connected. (TM 9-2350-256-10)
  - a. Locate and identify grenade launcher wiring harness connectors.
  - b. Check grenade launcher wiring harness for proper connections.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable publications. <ol style="list-style-type: none"> <li>a. Ensured appropriate TMs were used.</li> <li>b. Ensured steps are followed outlined in the TM.</li> </ol>	—	—
2. Used proper safety methods. <ol style="list-style-type: none"> <li>a. Ensured proper safety methods are followed.</li> <li>b. Followed prescribed safety precautions outlined in TM.</li> </ol>	—	—
3. Disassembled machine gun. <ol style="list-style-type: none"> <li>a. Ensured machine gun was on safe.</li> <li>b. Locked bolt to the rear.</li> <li>c. Ensured weapon was cleared.</li> <li>d. Followed steps outlined in the TM.</li> </ol>	—	—
4. Checked for broken or missing parts. <ol style="list-style-type: none"> <li>a. Separated machine gun components.</li> <li>b. Visually inspected each machine gun component for damage.</li> <li>c. Tagged and labeled any parts for turn-in.</li> <li>d. Ensured DA Form 2404 and DA Form 5988-E have been filled out.</li> </ol>	—	—
5. Ensured all parts were cleaned and lubricated. <ol style="list-style-type: none"> <li>a. Cleaned each machine gun component.</li> <li>b. Followed lubrication procedures outlined in the TM.</li> </ol>	—	—
6. Assembled machine gun. <ol style="list-style-type: none"> <li>a. Located and identified machine gun components to be assembled.</li> <li>b. Followed assembly procedures outline within the TM.</li> </ol>	—	—
7. Set head-space and timing. <ol style="list-style-type: none"> <li>a. Ensured proper tools were used.</li> <li>b. Followed procedures outlined in the TM.</li> <li>c. Verified head-space and timing settings.</li> </ol>	—	—
8. Inspected machine gun mount for missing, cracked, or broken parts. <ol style="list-style-type: none"> <li>a. Followed proper procedures outlined in the TM.</li> <li>b. Tagged and labeled any broken parts for turn-in.</li> <li>c. Ensured part had been requisitioned on proper paperwork.</li> </ol>	—	—
9. Ensured launcher tubes were free of rust, dirt, and corrosion. <ol style="list-style-type: none"> <li>a. Followed proper procedures outlined in the TM.</li> <li>b. Removed any rust, dirt, and corrosion found within or on launcher tubes.</li> </ol>	—	—
10. Ensured that grenade launcher wiring harness connectors were connected. <ol style="list-style-type: none"> <li>a. Located and identified grenade launcher wiring harness connections.</li> <li>b. Checked grenade launcher wiring harness for proper connections.</li> </ol>	—	—

**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**

DA FORM 2404  
DA FORM 5988-E  
TM 9-2350-256-10  
TM 9-2350-256-20-1  
TM 9-2350-256-20-2  
TM 9-2350-256-24P-1  
TM 9-2350-256-24P-2

**Related**

AR 385-10  
AR 750-1  
AR 750-43

**Perform Preventive Maintenance Checks and Services on a Tracked Recovery Vehicle  
091-H8T-2002**

**Conditions:** In a contemporary operational environment given a representative tracked vehicle (M88 series), required materials, general mechanic's tool kit, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), DA Pamphlet 750-8, technical manual (TM) 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-256-24P-2, and TM 9-2350-292-10, and other applicable forms and publications.

Note: If representative equipment is not available, use applicable equipment and associated references.

**Standards:** Inspected the M88 series vehicle in accordance with the preventive maintenance checks and services (PMCS) table of the applicable TM and record deficiencies on DA Form 2404 or DA Form 5988-E in accordance with DA Pamphlet 750-8.

**Performance Steps**

1. Select and use applicable publications.
  - a. Ensure appropriate TM is used.
  - b. Follow steps outlined in appropriate publication.
2. Select and use proper tools and test, measurement, and diagnostic equipment (TMDE).
  - a. Identify appropriate tools in basic issue items (BII).
  - b. Ensure appropriate tools are serviceable.
3. Describe operation of vehicle systems and subsystems.
  - a. Locate appropriate systems and subsystems operations in the TM.
  - b. Read and follow systems and subsystems maintenance operating guidance outlined in TM.
4. Determine readiness of system components.
  - a. Ensure components are at operating temperature.
  - b. Verify equipment operating gauges and instruments.
5. Identify deficiencies and shortcomings.
  - a. Follow steps outlined in TM pertaining to deficiencies.
  - b. Record deficiencies and shortcomings on DA Form 2404 or DA Form 5988-E.
6. Correct shortcomings identified as operator maintenance.
  - a. Take appropriate measures to repair all deficiencies and shortcomings that need to be repaired.
  - b. Notify supervisor if fault is found beyond operator level of maintenance.
7. Follow prescribed safety procedures.
  - a. Follow safety procedures outlined in TM.
  - b. Follow safety procedures outlined in unit standing operating procedure (SOP).

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable publications.	—	—
a. Ensured appropriate TM was used.		
b. Followed steps outlined in TM.		
2. Selected and used proper tools and TMDE.	—	—
a. Identified appropriate tools in BII.		
b. Ensured appropriate tools were serviceable.		

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
3. Described operation of vehicle systems and subsystems. a. Located appropriate systems and subsystems operations in the TM. b. Read and followed systems and subsystems maintenance operating guidance in TM.	—	—
4. Determined readiness of system components. a. Ensured components were at operating temperature. b. Verified equipment operating gauges and instruments.	—	—
5. Identified deficiencies and shortcomings. a. Followed steps outlined in the technical manual to pertaining to deficiencies. b. Recorded deficiencies and shortcomings using DA Form 2404 or DA Form 5988-E.	—	—
6. Corrected shortcomings identified as operator maintenance. a. Took appropriate measures to repair all deficiencies and shortcomings that needed to be repaired. b. Notified supervisor if fault was found beyond operator level of maintenance.	—	—
7. Followed prescribed safety procedures. a. Followed safety procedures outlined in TM. b. Followed safety procedures outlined in unit 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

DA FORM 2404  
DA FORM 5988-E  
DA PAM 750-8  
TM 9-2350-256-10  
TM 9-2350-256-20-1  
TM 9-2350-256-20-2  
TM 9-2350-256-24P-1  
TM 9-2350-256-24P-2  
TM 9-2350-292-10

##### Related

AR 385-10  
AR 750-1  
AR 750-43  
TM 9-243  
TM 9-8000

**Use Basic Issue Items Related to Tracked Recovery Vehicle  
091-H8T-2003**

**Conditions:** In a contemporary operational environment given a representative tracked vehicle (M88 series), required materials, general mechanic's tool kit, technical manual (TM) 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-256-24P-2, TM 9-2350-292-10, and other applicable forms and publications.

Note: If representative equipment is not available, use applicable equipment and associated references.

**Standards:** Removed, cleaned, and stored the recovery related components of end item (COEI) and basic issue items (BII) in accordance with the procedures in TM 9-2350-256-10 and TM 9-2350-292-10.

**Performance Steps**

1. Select and use applicable publications.
  - a. Ensure appropriate TM is used.
  - b. Follow steps outlined in appropriate publication.
2. Inventory and determine serviceability of BII.
  - a. Identify appropriate tools in BII.
  - b. Inspect BII for serviceability.
3. Repair BII, as required.
  - a. Follow steps outlined in TM pertaining to serviceability of BII.
  - b. Tag and label unserviceable BII for turn-in.
4. Replace BII, as required.
  - a. Follow directions outlined in publication on replacement of BII.
  - b. Ensure appropriate BII has been ordered on applicable forms.
5. Use BII, as required.
  - a. Select appropriate BII pertaining to job.
  - b. Follow procedures in TM.
6. Service BII, as required.
  - a. Refer to TM for servicing data.
  - b. Verify servicing information in TM.
7. Store BII properly.
  - a. Ensure all tools are accounted for.
  - b. Ensure tools are cleaned before storing.
8. Follow prescribed safety procedures.
  - a. Follow safety procedures outlined in TM.
  - b. Follow safety procedures outlined in unit standing operating procedure (SOP).

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications.	—	—
a. Ensured appropriated TM was used.		
b. Followed steps outlined in appropriate publication.		
2. Inventoried and determined serviceability of BII.	—	—
a. Identified appropriate tools in BII.		
b. Inspected BII for serviceability.		
3. Repaired BII, as required.	—	—
a. Followed steps outlined in TM pertaining to serviceability of BII.		
b. Tagged and labeled unserviceable BII for turn-in.		
4. Replaced BII, as required.	—	—
a. Followed directions outlined in publication on replacement of BII.		
b. Ensured appropriate BII was ordered on applicable forms.		
5. Used BII, as required.	—	—
a. Selected appropriate BII pertaining to job.		
b. Followed procedures in TM.		
6. Serviced BII, as required.	—	—
a. Referred to TM for servicing data.		
b. Verified servicing information in TM.		
7. Stored BII properly.	—	—
a. Ensured all tools were accounted for.		
b. Ensured all tools were cleaned before storing.		
8. Followed prescribed safety procedures.	—	—
a. Followed safety procedures outlined in TM.		
b. Followed safety procedures outlined in unit 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

TM 9-2350-256-10  
 TM 9-2350-256-20-1  
 TM 9-2350-256-20-2  
 TM 9-2350-256-24P-1  
 TM 9-2350-256-24P-2  
 TM 9-2350-292-10

##### Related

AR 750-1  
 AR 750-43  
 DA FORM 2404  
 DA FORM 5988-E  
 TM 9-8000

**Drive Tracked Recovery Vehicle**  
**091-H8T-2004**

**Conditions:** In a contemporary operational environment given a representative tracked vehicle (M88 series), required materials, general mechanic's tool kit, The Army Maintenance Management System (TAMMS) forms; technical manual (TM) 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-256-24P-2, and other applicable publications.

Note: If representative equipment is not available, use applicable equipment and associated references.

**Standards:** Negotiated obstacles in forward and reverse gears without stalling, jerking, getting stuck, or causing damage to the vehicle and while obeying all safety procedures, traffic regulations, and hand signals.

**Performance Steps**

1. Select and use applicable publications. (TM 9-2350-256-10)
  - a. Ensure appropriate TM is used.
  - b. Verify procedures while performing tracked recovery operations.
2. Perform preventive maintenance checks and services (PMCS). (TM 9-2350-256-10)
  - a. Identify what TM to use.
  - b. Follow procedures outlined in TM.
  - c. Annotate any deficiencies on appropriate forms.
  - d. Ensure forms are in accordance with DA Pamphlet 738-751 and DA Pamphlet 750-8.
3. Start engine. (TM 9-2350-256-10)
  - a. Ensure vehicle parking brake is engaged.
  - b. Check instrument panel to ensure gauges are operational.
  - c. Follow start up procedures outlined in TM.
4. Place vehicle in motion. (TM 9-2350-256-10)
  - a. Disengage parking brake.
  - b. Follow safety procedures outlined in motor pool.
  - c. Ensure ground guides are used, if required.
5. Drive vehicle, maintaining proper engine speed when descending and ascending grades. (TM 9-2350-256-10)
  - a. Follow vehicle operating instructions, while maintaining proper engine speed, when descending and ascending grades.
  - b. Verify vehicle operating instructions, while maintaining proper engine speed, when descending and ascending grades.
6. Drive vehicle in reverse. (TM 9-2350-256-10)
  - a. Ensure ground guide is used.
  - b. Maintain proper speed while vehicle is in reverse.
7. Stop vehicle. (TM 9-2350-256-10)
  - a. Follow safety guidelines outlined in motor pool.
  - b. Carefully bring the vehicle to a stop, while adhering to safe driving habits.
8. Parking vehicle. (TM 9-2350-256-10)
  - a. Ensure proper ground guides are used.
  - b. Ensure there is enough clearance from other vehicles.



**Performance Steps**

9. Stop engine (normal and emergency procedures). (TM 9-2350-256-10)
  - a. Follow guidelines outlined in TM for proper stopping procedures.
  - b. Ensure parking brake is engaged.
  - c. Ensure vehicle is chock blocked.
  - d. Perform an after-operations PMCS.
10. Complete TAMMS forms, as required. (TM 9-2350-256-10)
  - a. Annotate any deficiencies on appropriate forms.
  - b. Ensure parts are ordered, if needed.
  - c. Turn forms into Unit Level Logistics System (ULLS) clerk.
11. Follow prescribed safety procedures. (TM 9-2350-256-10)
  - a. Follow safety procedures outlined in TM.
  - b. Follow safety procedures outlined in unit standing operating procedure (SOP).

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable publications. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) <ol style="list-style-type: none"> <li>a. Followed procedures outlined within TM.</li> <li>b. Verified procedures while performing tracked recovery operations.</li> </ol>	—	—
2. Performed preventive maintenance checks and services (PMCS). (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) <ol style="list-style-type: none"> <li>a. Identified what TM was used.</li> <li>b. Followed procedures outlined within TM.</li> <li>c. Annotated any deficiencies on appropriate forms.</li> </ol>	—	—
3. Started engine. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) <ol style="list-style-type: none"> <li>a. Ensured vehicle parking brake was engaged.</li> <li>b. Checked instrument panel to ensure gauges were operational.</li> <li>c. Followed start up procedures outlined in TM.</li> </ol>	—	—
4. Placed vehicle in motion. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) <ol style="list-style-type: none"> <li>a. Disengaged parking brake.</li> <li>b. Followed safety procedures outlined in motor pool.</li> <li>c. Ensured ground guide was used, if required.</li> </ol>	—	—
5. Drove vehicle, maintaining proper engine speed when descending and ascending grades. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) <ol style="list-style-type: none"> <li>a. Followed vehicle operating instructions, while maintaining proper engine speed, when descending and ascending grades.</li> <li>b. Verified vehicle operating instructions, while maintaining proper engine speed, when descending and ascending grades.</li> </ol>	—	—
6. Drove vehicle in reverse. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) <ol style="list-style-type: none"> <li>a. Ensured ground guide was used.</li> <li>b. Maintained proper speed while vehicle was in reverse.</li> </ol>	—	—
7. Stopped vehicle. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) <ol style="list-style-type: none"> <li>a. Followed safety guidelines outlined in motor pool.</li> <li>b. Carefully brought vehicle to a stop, while adhering to safe driving habits.</li> </ol>	—	—

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
8. Parked vehicle. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) a. Ensured proper ground guides were used. b. Ensured there was enough clearance from other vehicles.	—	—
9. Stopped engine (normal and emergency procedures). (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) a. Followed guidelines outlined in TM for proper stopping procedures. b. Ensured parking brake was engaged. c. Ensured vehicle was chock blocked. d. Performed an after-operations PMCS.	—	—
10. Completed TAMMS forms, as required. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) a. Annotated any deficiencies on appropriate forms. b. Ensured parts were ordered, if needed. c. Turned forms into Unit Level Logistics System (ULLS) clerk.	—	—
11. Followed prescribed safety procedures. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) a. Followed safety procedures outlined in TM. b. Followed safety procedures outlined in unit standing operating procedure (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**

TM 9-2350-256-10  
 TM 9-2350-256-20-1  
 TM 9-2350-256-20-2  
 TM 9-2350-256-24P-1  
 TM 9-2350-256-24P-2

**Related**

AR 385-10  
 AR 750-1  
 AR 750-43  
 DA PAM 738-751  
 DA PAM 750-8

## Operate Auxiliary Power Unit 091-H8T-2005

**Conditions:** In a contemporary operational environment given a representative tracked vehicle (M88 series), required materials, general mechanic's tool kit, technical manual (TM) 9-2350-256-10, TM 9-2350-292-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, and other applicable publications.

Note: If representative equipment is not available, use applicable equipment and associated references.

**Standards:** Operated the Auxiliary Power Unit (APU) and basic issue items (BII) powered by the APU in accordance with the procedures in TM 9-2350-256-10 and TM 9-2350-292-10 without damage to the equipment.

### Performance Steps

1. Select and use applicable publications. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Ensure appropriate TM is used.
  - b. Follow steps outlined in TM pertaining to APU procedures.
2. Start APU. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Follow APU start up procedures outlined in TM.
  - b. Operate APU in accordance with applicable specifications.
  - c. Ensure BII is operable without damage to APU.
3. Actuated generator switch to charge batteries. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Follow procedures outlined in TM.
  - b. Verify procedures while actuated generator switch to charge batteries.
4. Engage hydraulic control levers to start refuel/defuel pump. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Follow procedures outlined within TM.
  - b. Verify procedures while performing refueling/refueling operations.
5. Connect and operate hydraulic equipment. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Ensure all steps are followed in accordance with TM.
  - b. Verify connection while operating hydraulic equipment.
6. Shut down APU. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Ensure shutdown procedures are in accordance with TM.
  - b. Perform preventive maintenance checks and services (PMCS) while applying shutdown procedures.
7. Follow prescribed safety procedures.
  - a. Follow safety procedures outlined in TM.
  - b. Follow safety procedures outlined in unit standing operating procedure (SOP).

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Ensured appropriate TM was used. b. Followed steps outline in TM pertaining to APU procedures.	—	—
2. Started APU. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Followed APU start up procedures outlined within TM. b. Operated APU in accordance with applicable specifications. c. Ensured BII was operable without damage to APU.	—	—
3. Actuated generator switch to charge batteries. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Followed procedures outlined in TM. b. Verified procedures while actuated generator switch to charge batteries.	—	—
4. Engaged hydraulic control levers to start refuel/defuel pump. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Followed procedures outlined within TM. b. Verified procedures while engaging hydraulic control lever to start refuel/defuel operations.	—	—
5. Connected and operated hydraulic equipment. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Followed procedures outlined within TM. b. Verified connection while operating hydraulic equipment.	—	—
6. Shut down APU. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Followed APU shutdown procedures outlined within TM. b. Verified procedures while performing APU shutdown task.	—	—
7. Followed prescribed safety procedures. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Followed safety procedures outlined in TM. b. Followed safety procedures outlined in unit 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

TM 9-2350-256-10  
 TM 9-2350-256-20-1  
 TM 9-2350-256-20-2  
 TM 9-2350-292-10

##### Related

AR 385-10  
 AR 750-1  
 AR 750-43

**Operate the Boom and Hoist Winch on a Tracked Recovery Vehicle**  
**091-H8T-2006**

**Conditions:** In a contemporary operational environment given a representative tracked vehicle (M88 series); required materials; general mechanic's tool kit; and applicable publications including technical manual (TM) 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-34, and TM 9-2350-292-10.

Note: If representative equipment is not available, use applicable equipment and associated references.

**Standards:** Rigged and operated the boom on the M88A1/M88A2 tracked recovery vehicle in accordance with the procedures in TM 9-2350-256-10 or TM 9-2350-292-10.

**Performance Steps**

1. Select and use applicable publications. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Ensure appropriate TM is used.
  - b. Verify procedures while performing Boom, Hoist, and Winch operations.
2. Prepare vehicle for use of hydraulic equipment. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Ensure appropriate basic issue items (BII) is used.
  - b. Follow procedures outlined in TM.
  - c. Disconnect any lines and fittings connecting equipment.
  - d. Ensure appropriate equipment is hooked up.
3. Operate boom. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Follow steps outlined in TM.
  - b. Check equipment for any leaks.
4. Operate hoist winch. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Ensure all connections are hooked up properly.
  - b. Verify procedures while performing hoist and winch operations.
  - c. Check equipment for any leaks.
5. Secure hydraulic equipment, as required. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Ensure all equipment is properly secured.
  - b. Ensure area is cleaned in accordance with Environmental Protection Agency (EPA) regulations.
6. Follow prescribed safety procedures. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Follow safety procedures outlined in motor pool.
  - b. Ensure to follow all safety guidance outlined with standing operating procedure (SOP).

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Ensured appropriate TM was used. b. Verified procedures while performing Boom, Hoist, and Winch operations.	—	—
2. Prepared vehicle for use of hydraulic equipment. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Ensured appropriate BII was used. b. Followed procedures outlined within TM. c. Disconnected any lines and fittings connecting equipment. d. Ensured appropriate equipment is hooked up.	—	—
3. Operated boom. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Followed steps outlined in TM. b. Checked equipment for any leaks.	—	—
4. Operated hoist winch. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Ensured all connections are hooked up properly. b. Verified procedures while performing hoist and winch operations. c. Checked equipment for any leaks.	—	—
5. Secured hydraulic equipment, as required. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Ensured all equipment was properly secured. b. Ensured area is cleaned in accordance with EPA regulations.	—	—
6. Followed prescribed safety procedures. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Followed safety procedures outlined in motor pool. b. Followed safety procedures outlined in unit 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**

<b>Required</b>	<b>Related</b>
TM 9-2350-256-10	AR 385-10
TM 9-2350-256-20-1	AR 750-1
TM 9-2350-256-20-2	AR 750-43
TM 9-2350-256-34	
TM 9-2350-292-10	

**Operate the Spade on a Tracked Recovery Vehicle**  
**091-H8T-2007**

**Conditions:** In a contemporary operational environment given a representative tracked vehicle (M88 series), required materials, general mechanic's tool kit, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), technical manual (TM) 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-256-24P-2, TM 9-2350-292-10, and related references.

Note: If representative equipment is not available, use applicable equipment and associated references.

**Standards:** Operated the spade in accordance with applicable technical publication procedures and specifications without injury to personnel or damage to equipment. When this task was completed, the vehicle was fully mission capable or maintenance actions required to be performed by other than H8 skill level (SL) 1/2 personnel had been identified.

**Performance Steps**

1. Select and use applicable publications. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Ensure appropriate TM is used.
  - b. Follow steps identified in TM for job performance.
2. Prepare vehicle for use of hydraulic equipment. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Follow steps outlined in TM.
  - b. Perform a before-operations preventive maintenance checks and services (PMCS).
3. Operate spade. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Follow safety precautions outlined in TM.
  - b. Check equipment for leaks.
  - c. Perform an after-operations PMCS.
  - d. Annotate any deficiencies on appropriate DA Form 2404 and DA Form 5988-E, if needed.
4. Secure hydraulic equipment, as required. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Ensure all attachments and basic issue items (BII) are secured properly.
  - b. Ensure area is cleaned of any Environmental Protection Agency (EPA) violations.
5. Follow prescribed safety procedures. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Follow safety procedures outlined in TM.
  - b. Follow safety procedures outlined in unit standing operating procedure (SOP).

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Ensured appropriate TM is used. b. Followed steps outlined in TM for job performance.	—	—
2. Prepared vehicle for use of hydraulic equipment. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Followed steps outlined in TM. b. Performed a before-operations PMCS.	—	—
3. Operated spade. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Followed safety precautions outlined in TM. b. Checked equipment for leaks. c. Performed an after-operations PMCS. d. Annotated any deficiencies on appropriate DA Form 2404 and DA Form 5988-E, if needed.	—	—
4. Secured hydraulic equipment, as required. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Ensured all attachments and BII are secured properly. b. Ensured area was cleaned of any EPA violations.	—	—
5. Followed prescribed safety procedures. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Followed safety procedures outlined in TM. b. Followed safety procedures outlined in unit 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**

- DA FORM 2404
- DA FORM 5988-E
- TM 9-2350-256-10
- TM 9-2350-256-20-1
- TM 9-2350-256-20-2
- TM 9-2350-256-24P-1
- TM 9-2350-256-24P-2
- TM 9-2350-292-10

**Related**

- AR 385-10
- AR 750-1
- AR 750-43



**Operate the Winch on a Tracked Recovery Vehicle**  
**091-H8T-2008**

**Conditions:** In a contemporary operational environment given a representative tracked vehicle (M88 series); required materials; general mechanic's tool kit; and required publications including technical manual (TM) 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-256-24P-2, TM 9-2350-256-34, and TM 9-2350-292-10.

Note: If representative equipment is not available, use applicable equipment and associated references.

**Standards:** Operated the main winch and auxiliary winch in accordance with the procedures in TM 9-2350-256-10 and TM 9-2350-292-10 without causing damage to the equipment or injury to personnel.

**Performance Steps**

1. Select and use applicable publications. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Ensure appropriate TM is used.
  - b. Follow procedures outlined in TM for job performance.
2. Prepare vehicle for use of hydraulic equipment. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Ensure basic issue items (BII) and test, measurement, and diagnostic equipment (TMDE) are available.
  - b. Perform a before-operations preventive maintenance checks and services (PMCS).
3. Operate main winch. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Follow steps outlined in TM.
  - b. Check equipment for any leaks.
  - c. Annotate any deficiencies on appropriate forms, if needed.
4. Secure hydraulic equipment, as required. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Ensure all attachments and equipment are cleaned and stored properly.
  - b. Perform an after-operations PMCS.
5. Follow prescribed safety procedures. (TM 9-2350-256-10, TM 9-2350-292-10)
  - a. Follow safety procedures outlined in TM.
  - b. Follow safety procedures outlined in unit standing operating procedure (SOP).

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable publications. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10)	—	—
a. Ensured appropriate TM was used.		
b. Followed procedures outlined in TM for job performance.		
2. Prepared vehicle for use of hydraulic equipment. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10)	—	—
a. Ensured BII and TMDE were available.		
b. Performed a before-operations PMCS.		
3. Operated main winch. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10)	—	—
a. Followed steps outlined in TM.		
b. Checked equipment for any leaks.		
c. Annotated any deficiencies on appropriate forms, if needed.		

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
4. Secured hydraulic equipment, as required. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Ensured all attachments and equipment were cleaned and stored properly. b. Performed an after-operations PMCS.	—	—
5. Followed prescribed safety procedures. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-292-10) a. Followed safety procedures outlined in TM. b. Followed safety procedures outlined in unit 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**

- TM 9-2350-256-10
- TM 9-2350-256-20-1
- TM 9-2350-256-20-2
- TM 9-2350-256-24P-1
- TM 9-2350-256-24P-2
- TM 9-2350-256-34
- TM 9-2350-292-10

**Related**

- AR 385-10
- AR 750-1
- AR 750-43

## **Recover a Mired Tracked Vehicle**

### **091-H8T-2009**

**Conditions:** In a contemporary operational environment given a representative tracked vehicle (M88 series); required materials; general mechanic's tool kit; and applicable publications including technical manual (TM) 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-24P-1, TM 9-2350-256-24P-2, and TM 9-2350-256-34.

Note: If representative equipment is not available, use applicable equipment and associated references.

**Standards:** Accomplished task in accordance with applicable TM's procedures and specifications. All safety precautions were observed.

#### **Performance Steps**

1. Select and use applicable publications. (TM 9-2350-256-10)
  - a. Identify which TM will be used.
  - b. Followed steps outlined in TM.
2. Determined method of rigging. (TM 9-2350-256-10)
  - a. Follow steps outlined in TM.
  - b. Ensure rigging lines are not defected.
3. Attach cable to the mired vehicle. (TM 9-2350-256-10)
  - a. Follow safety precautions outlined in TM.
  - b. Ensure all observing personnel are at least one cable length away, opposite angle of pull.
4. Prepare recovery vehicle for recovery operations. (TM 9-2350-256-10)
  - a. Ensure parking brake is not engaged.
  - b. Inspect tackle and equipment before recovery operation starts.
5. Establish communications between vehicles. (TM 9-2350-256-10)
  - a. Observe ground guide while operating recovery equipment.
  - b. Ensure proper speed limit is followed.
6. Recover mired vehicle ensuring that all safety practices were followed. (TM 9-2350-256-10)
  - a. Ensure proper safety equipment is used.
  - b. Ensure proper hand signals are used during recovery.
7. Secure recovery equipment. (TM 9-2350-256-10)
  - a. Disconnect and stow rigging equipment.
  - b. Perform after-operations preventive maintenance checks and services (PMCS).
  - c. Annotate any deficiencies on appropriate forms, if needed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) a. Identified which TM was used. b. Followed steps outlined in TM.	—	—
2. Determined method of rigging. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) a. Followed steps outlined in TM. b. Ensured rigging lines were not defected.	—	—
3. Attached cables to the mired vehicle. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) a. Followed safety precautions outlined in TM. b. Ensured all observing personnel were at least one cable length away, opposite angle of pull.	—	—
4. Prepared recovery vehicle for recovery operations. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) a. Ensured parking brake was not engaged. b. Inspected tackle and equipment before recovery operation starts.	—	—
5. Established communications between vehicles. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) a. Observed ground guide while operating recovery equipment. b. Ensured proper speed limit was followed.	—	—
6. Recovered mired vehicle ensuring that all safety practices were followed. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) a. Ensured proper safety equipment was used. b. Ensured proper hands signals were used during recovery.	—	—
7. Secured recovery equipment. (TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2) a. Disconnected and stowed rigging equipment. b. Performed after-operations PMCS. c. Annotated any deficiencies on appropriate forms, if needed.	—	—

**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**

- TM 9-2350-256-10
- TM 9-2350-256-20-1
- TM 9-2350-256-20-2
- TM 9-2350-256-24P-1
- TM 9-2350-256-24P-2
- TM 9-2350-256-34

**Related**

- AR 385-10
- AR 750-10
- AR 750-43
- DA PAM 750-8

## Skill Level 3

## Subject Area 4: Common Logistic Tasks (SL 3)

**Manage a Shop Safety Program**  
**091-CLT-3001**

**Conditions:** In a contemporary operational environment, given Army regulation (AR) 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, Department of the Army (DA) Pamphlet 750-8, field manual (FM) 4-30.3, technical bulletin (TB) 43-180, TB 43-0142, a maintenance site/facility, and maintenance personnel.

**Standards:** Ensure that personnel followed all safety procedures and preventable accidents were avoided. If accidents occurred, they were properly recorded and reported in accordance with applicable references.

**Performance Steps**

1. Establish a Maintenance Facility Safety Program.
  - a. Ensure all safety references are on hand. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA PAM 750-8, FM 4-30.3, TB 43-0142, TB 43-180)
  - b. Establish and document goals and requirements for a successful shop safety and accident prevention program. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA PAM 750-8, FM 4-30.3, TB 43-0142, TB 43-180)
  - c. Brief and regularly update subordinates on shop safety program. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA PAM 750-8, FM 4-30.3, TB 43-0142, TB 43-180)
2. Monitor Maintenance Facility Safety Program
  - a. Conduct initial safety inspections. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA PAM 750-8, FM 4-30.3, TB 43-0142, TB 43-180)
  - b. Ensure initial safety concerns and violations are corrected. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA PAM 750-8, FM 4-30.3, TB 43-0142, TB 43-180)
  - c. Conduct scheduled and unscheduled safety inspections. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA PAM 750-8, FM 4-30.3, TB 43-0142, TB 43-180)
  - d. Document safety violations, report the violations as required, and conduct follow-up inspections to ensure violations were corrected. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA PAM 750-8, FM 4-30.3, TB 43-0142, TB 43-180)
  - e. Keep necessary records of safety inspections and accident reports. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA PAM 750-8, FM 4-30.3, TB 43-0142, TB 43-180)
3. Maintain Hazard Communication Program.
  - a. The Hazardous Communication (HAZCOM) Program is established to ensure that hazardous information on all hazardous chemicals in the workplace is transmitted to affected employers and exposed employees. Policies and procedures of this program are established in accordance with 29 CFR, Section 1910.1200 and AR 700-141.
  - b. Commanders and directors, safety, environmental, health, logistics, training, operations, personnel offices, and supervisory personnel at all levels who share responsibility for implementation Army HAZCOM Program should—
    - (1) Provide chemical specific training to trainers.
    - (2) Maintain the health hazard inventory.
    - (3) Maintain a central master file of MSDSs.
    - (4) Provide copies of MSDSs as needed.
    - (5) Interpret MSDS data as needed.
    - (6) Determine employees to be trained through field surveys.

**Performance Steps**

- c. Commanders and directors responsibilities.
  - (1) Ensure a written comprehensive HAZCOM Program is developed, implemented, and maintained at each level of activity.
  - (2) Ensure all employees who use or are exposed to hazardous chemicals receive DOD HAZCOM training.
  - (3) Ensure all employees who use or are exposed to hazardous chemicals are trained on specific hazards of each chemical.
  - (4) Ensure supervisors maintain MSDS for each hazardous chemical that is used or stored.
  - (5) Ensure MSDSs are obtained from vendor for directly purchased items.
  - (6) Ensure hazardous material inventory is maintained and updated monthly in each work section.
  - (7) Ensure a copy of updated hazardous material inventory is forwarded to local Safety Office and Preventive Medicine.
  - (8) Ensure hazardous material containers are labeled in compliance with 29 CFR, Section 1910–1200(f).
  - (9) Ensure employees have access to MSDSs.
- d. Supervisors responsibilities.
  - (1) Develop, implement, and maintain a written comprehensive hazardous communication program.
  - (2) Ensure all employees who use and are exposed to hazardous chemicals receive DOD HAZCOM training.
  - (3) Ensure all employees who use and are exposed to hazardous chemicals are trained on specific hazards of each chemical.
  - (4) Maintain MSDS for each hazardous chemical.
  - (5) Obtain MSDS from vendor for directly purchased hazardous chemicals.
  - (6) Maintain and update hazardous material inventory.
  - (7) Label, tag, and mark hazardous material containers in compliance with 29 CFR, Section 1910.1200(f).
  - (8) Ensure employees have access to MSDSs.

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured all safety references were on hand.	—	—
2. Established and documented goals and requirements for a successful shop safety and accident prevention program.	—	—
3. Briefed and regularly updated subordinates on shop safety program.	—	—
4. Conducted initial safety inspections.	—	—
5. Ensured initial safety concerns and violations were corrected.	—	—
6. Conducted scheduled and unscheduled safety inspections.	—	—
7. Documented safety violations, reported the violations as required, and conducted follow-up inspections to ensure violations were corrected.	—	—
8. Kept necessary records of safety inspections and accident reports.	—	—
9. Ensured material safety data sheets (MSDSs) were prepared and maintained as required in applicable work areas.	—	—

**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 220-1  
AR 385-10  
AR 700-138  
AR 750-1  
DA PAM 750-8  
FM 4-30.3  
DA PAM 385-10  
TB 43-0142  
TB 43-180

**Related**

**Maintain a Publications Library**  
**091-CLT-3002**

**Conditions:** In a contemporary operational environment, given publications, Electronic Technical Manuals (ETMs)/Interactive Electronic Technical Manuals (IETMs), computer with access to the World Wide Web, storage location, local and higher headquarters publications indexes and publications procedures, standing operating procedure (SOP), and applicable forms and references.

**Standards:** Ensure required publications, ETMs/IETMs are on hand or ordered, publications were arranged and maintained properly, forms/records were properly maintained, and changes were posted in accordance with applicable references and local procedures.

**Performance Steps**

1. Determine all publications required by the maintenance shop or section. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)
2. Review and updated publications library SOP as needed. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)
3. Ensure that technical publications on hand or on order were the most current in accordance with DA Pamphlet 25-30. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)
4. Ensure that doctrinal, training, and organizational publications on hand or on order were the most current in accordance with DA Pamphlet 25-30 and local listings. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)
5. Ensure that administrative publications on hand or on order were the most current in accordance with DA Pamphlet 25-30. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)
6. Ensure that local and higher headquarters publications on hand or on order were the most current in accordance with DA Pamphlet 25-30 and local listings. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)
7. Prepare DA Form 4569-1-R (Security Assistance Publication Requisition Code Sheet (LRA)) in accordance with DA Pamphlet 25-33. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)
8. Prepare the required transmittal form in accordance with DA Pamphlet 25-33. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)
9. Prepare DA Form 17 (Requisition for Publications and Blank Forms) and DA Form 17-1 (Requisition for Publications and Blank Forms (Continuation Sheet) to request local and higher headquarters publications in accordance with DA Pamphlet 25-33 and local or higher headquarters publications requisitioning procedures. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)
10. Ensure that published changes were posted to applicable publications in accordance with DA Pamphlet 25-40 and publications change instructions. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)
11. Remove obsolete, rescinded, or superseded publications from library in accordance with DA Pamphlet 25-40 and publications change instructions. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)



**Performance Steps**

12. Arrange publications in proper order and in a suitable location in accordance with DA Pamphlet 25-40. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)
13. Label binders used for storing library publications in accordance with AR 25-400-2 and DA Pamphlet 25-40. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)
14. Notify personnel to return loaned publications to the library in a timely manner in accordance with publications library SOP. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)
15. Update Army Publishing Directorate (APD), local, and higher headquarters publications accounts, as required, in accordance with DA Pamphlet 25-33 and local or higher headquarters publications account instructions. (AR 25-11, AR 25-400-2, DA FORM 17, DA FORM 17-1, DA FORM 4569-1-R, DA PAM 25-30, DA PAM 25-33, DA PAM 25-40)

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Determined all publications required by the maintenance shop or section.	—	—
2. Reviewed and updated publications library SOP as needed.	—	—
3. Ensured that technical publications on hand or on order were the most current in accordance with DA Pamphlet 25-30.	—	—
4. Ensured that doctrinal, training, and organizational publications on hand or on order were the most current in accordance with DA Pamphlet 25-30 and local listings.	—	—
5. Ensured that administrative publications on hand or on order were the most current in accordance with DA Pamphlet 25-30.	—	—
6. Ensured that local and higher headquarters publications on hand or on order were the most current in accordance with DA Pamphlet 25-30 and local listings.	—	—
7. Prepared DA Form 4569-1-R (Security Assistance Publication Requisition Code Sheet (LRA)) in accordance with DA Pamphlet 25-33.	—	—
8. Prepared the required transmittal form in accordance with DA Pamphlet 25-33.	—	—
9. Prepared DA Form 17 (Requisition for Publications and Blank Forms) and DA Form 17-1 (Requisition for Publications and Blank Forms (Continuation Sheet) to request local and higher headquarters publications in accordance with DA Pamphlet 25-33 and local or higher headquarters publications requisitioning procedures.	—	—
10. Ensured that published changes were posted to applicable publications in accordance with DA Pamphlet 25-40 and publications change instructions.	—	—
11. Removed obsolete, rescinded, or superseded publications from library in accordance with DA Pamphlet 25-40 and publications change instructions.	—	—
12. Arranged publications in proper order and in a suitable location in accordance with DA Pamphlet 25-40.	—	—
13. Labeled binders used for storing library publications in accordance with AR 25-400-2 and DA Pamphlet 25-40.	—	—

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
14. Notified personnel to return loaned publications to the library in a timely manner in accordance with publications library SOP.	—	—
15. Updated Army Publishing Directorate (APD), local, and higher headquarters publications accounts, as required, in accordance with DA Pamphlet 25-33 and local or higher headquarters publications account instructions.	—	—

**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 25-11
- AR 25-400-2
- DA FORM 17
- DA FORM 17-1
- DA FORM 4569-1-R
- DA PAM 25-30
- DA PAM 25-33
- DA PAM 25-40

**Related**

**Assist in Preparing a Standing Operating Procedure  
091-CLT-3004**

**Conditions:** In a contemporary operational environment, given field manual (FM) 4-30.3, higher headquarters standing operating procedure (SOP), and commander's guidance.

**Standards:** Prepare a draft copy of a maintenance shop/section internal or external SOP for supervisor's review, comment, and approval in accordance with applicable references.

**Performance Steps**

1. Ensure applicable publications were available. (FM 4-30.3)
2. Ensure unit policies and commander's guidance were followed. (FM 4-30.3)
3. Ensure shop operation policies were adequately addressed. (FM 4-30.3)
4. Update the shop SOP, as required. (FM 4-30.3)

**Evaluation Preparation:** None

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Ensured applicable publications were available.	—	—
2. Ensured unit policies and commander's guidance were followed.	—	—
3. Ensured shop operation policies were adequately addressed.	—	—
4. Updated the shop SOP, as required.	—	—

**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

**Related**

**Manage Tool Control Procedures  
091-CLT-3005**

**Conditions:** In a contemporary operational environment, given Army regulation (AR) 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, Department of the Army (DA) Form 2062 (Hand Receipt/Annex Number), DA Pamphlet 710-2-1, DA Pamphlet 750-8, field manual (FM) 1-02, FM 4-30.3, applicable supply catalog(s), applicable references, and hand receipt forms.

**Standards:** Manage tool control procedures in accordance with applicable references.

**Performance Steps**

1. Ensure applicable references were available. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA FORM 2062, DA PAM 710-2-1, DA PAM 750-8, FM 1-02, FM 4-30.3)
2. Establish policies and procedures for the control of tools. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA FORM 2062, DA PAM 710-2-1, DA PAM 750-8, FM 1-02, FM 4-30.3)
3. Ensure all Department of the Army (DA) Form 2062s (Hand Receipt/Annex Number) were properly filled out and updated. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA FORM 2062, DA PAM 710-2-1, DA PAM 750-8, FM 1-02, FM 4-30.3)
4. Ensure tools and equipment were inventoried in accordance with applicable references. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA FORM 2062, DA PAM 710-2-1, DA PAM 750-8, FM 1-02, FM 4-30.3)
5. Ensure tool shortages were annotated on a shortage annex. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA FORM 2062, DA PAM 710-2-1, DA PAM 750-8, FM 1-02, FM 4-30.3)
6. Ensure subordinates applied property accountability procedures. (AR 190-13, AR 220-1, AR 385-10, AR 700-138, AR 750-1, DA FORM 2062, DA PAM 710-2-1, DA PAM 750-8, FM 1-02, FM 4-30.3)

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured applicable references were available.	—	—
2. Established policies and procedures for the control of tools.	—	—
3. Ensured all DA Form 2062s (Hand Receipt/Annex Number) were properly filled out and updated.	—	—
4. Ensured tools and equipment were inventoried in accordance with applicable references.	—	—
5. Ensured tool shortages were annotated on a shortage annex.	—	—
6. Ensured subordinates applied property accountability procedures.	—	—

**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 220-1  
AR 385-10  
AR 700-138  
AR 750-1  
DA FORM 2062  
DA PAM 710-2-1  
DA PAM 750-8  
FM 1-02  
FM 4-30.3

**Related**

**Manage Key Control Procedures  
091-CLT-3006**

**Conditions:** In a contemporary operational environment, given Army regulation (AR) 190-13, AR 190-51, keys, key control rosters, key boxes/cabinets, and applicable publications.

**Standards:** Manage key control procedures in accordance with applicable references.

**Performance Steps**

1. Ensure necessary publications were available. (AR 190-13, AR 190-51)
2. Establish key control policies and procedures. (AR 190-13, AR 190-51)
3. Establish key control access rosters. (AR 190-13, AR 190-51)
4. Ensure personnel were aware of their responsibilities for the security and accountability of keys. (AR 190-13, AR 190-51)
5. Ensure key control access rosters were properly maintained and adhered to. (AR 190-13, AR 190-51)

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured necessary publications were available.	—	—
2. Established key control policies and procedures.	—	—
3. Established key control access rosters.	—	—
4. Ensured personnel were aware of their responsibilities for the security and accountability of keys.	—	—
5. Ensured key control access rosters were properly maintained and adhered to.	—	—

**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**

<p><b>Required</b> AR 190-13 AR 190-51</p>	<p><b>Related</b></p>
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**Manage the TMDE Calibration Program  
091-CLT-3007**

**Conditions:** In a contemporary operational environment, given Army regulation (AR) 750-43, technical bulletin (TB) 43-180, test, measurement, and diagnostic equipment (TMDE), maintenance personnel, and applicable references.

**Standards:** Manage the TMDE calibration program in accordance with applicable references.

**Performance Steps**

1. Ensure necessary publications were available. (AR 750-43, TB 43-180)
2. Review and update TMDE computer printout list. (AR 750-43, TB 43-180)
3. Ensure preventive maintenance checks and services (PMCS) and inventory of all TMDE and auxiliary equipment are conducted, as required. (AR 750-43, TB 43-180)
4. Ensure TMDE is turned in for calibration in accordance with computer printouts. (AR 750-43, TB 43-180)

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured necessary publications were available.	—	—
2. Reviewed and updated TMDE computer printout list.	—	—
3. Ensured preventive maintenance checks and services (PMCS) and inventory of all TMDE and auxiliary equipment are conducted, as required.	—	—
4. Ensured TMDE was turned in for calibration in accordance with computer printouts.	—	—

**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**

<p><b>Required</b> AR 750-43 TB 43-180</p>	<p><b>Related</b></p>
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**Recon Terrain/Route  
091-CLT-3008**

**Conditions:** In a contemporary operational environment, given field manual (FM) 3-34.170, FM 4-30.3, a maintenance situation/operation order (OPORD), operational overlay, grid coordinates of destination, vehicle with personnel, and applicable references.

**Standards:** Perform a route and terrain reconnaissance and select the most appropriate route to follow and the most appropriate location to set up a maintenance site in accordance with maintenance situation or OPORD and applicable references.

**Performance Steps**

1. Ensure necessary equipment and publications were available.
2. Conduct a map reconnaissance of the terrain and route.
3. Select personnel for reconnaissance team.
4. Conduct a route reconnaissance to determine best access to destination and to ensure safety of personnel and equipment.
5. Recon terrain to determine suitability for maintenance site use, to determine best avenues of entry and exit, and to ensure safety of personnel and equipment.
6. Report findings and conclusions to supervisors.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Ensured necessary equipment and publications were available.	—	—
2. Conducted a map reconnaissance of the terrain and route.	—	—
3. Selected personnel for reconnaissance team.	—	—
4. Conducted a route reconnaissance to determine best access to destination and to ensure safety of personnel and equipment.	—	—
5. Recon terrain to determine suitability for maintenance site use, to determine best avenues of entry and exit, and to ensure safety of personnel and equipment.	—	—
6. Reported findings and conclusions to supervisors.	—	—

**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 3-34.170  
FM 4-30.3

**Related**



**Interpret Maintenance Operational Overlay  
091-CLT-3010**

**Conditions:** In a contemporary operational environment, given an operational overlay, map, field manual (FM) 1-02, FM 3-34.170, FM 4-30.3, maintenance situation/operation order (OPORD), and applicable references.

**Standards:** Interpret the maintenance operational overlay by identifying key features and elements of the area of operations in accordance with applicable references.

**Performance Steps**

1. Ensure necessary references and materials were available. (FM 1-02, FM 3-34.170, FM 4-30.3)
2. Identify mapping symbols on the operational overlay. (FM 1-02, FM 3-34.170, FM 4-30.3)
3. Identify key features of the map and operational overlay. (FM 1-02, FM 3-34.170, FM 4-30.3)
4. Identify key elements of the area of operations on the map and operational overlay. (FM 1-02, FM 3-34.170, FM 4-30.3)
5. Update the operational overlay, as necessary. (FM 1-02, FM 3-34.170, FM 4-30.3)

**Evaluation Preparation:** None

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
1. Ensured necessary references and materials were available.	—	—
2. Identified mapping symbols on the operational overlay.	—	—
3. Identified key features of the map and operational overlay.	—	—
4. Identified key elements of the area of operations on the map and operational overlay.	—	—
5. Updated the operational overlay, as necessary.	—	—

**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>
FM 1-02	
FM 3-34.170	
FM 4-30.3	

**Deploy Maintenance Support Teams**  
**091-CLT-3011**

**Conditions:** In a contemporary operational environment, given a request for maintenance support/maintenance situation, map, operational overlay, grid coordinates of destination, vehicles, equipment, maintenance personnel, field manual (FM) 4-30.3, FM 1-02, and other applicable references.

**Standards:** Deploy the maintenance support team in accordance with the maintenance situation or request for maintenance support and applicable references.

**Performance Steps**

1. Review the request for maintenance support/maintenance situation. (FM 1-02, FM 4-30.3)
2. Determine personnel and equipment requirements necessary to perform the mission. (FM 1-02, FM 4-30.3)
3. Identify available resources for the support team, including personnel with applicable military occupational specialties (MOSs), vehicles, tools, test equipment, publications, repair parts, time, and facilities as necessary. (FM 1-02, FM 4-30.3)
4. Determine requirements for defending the team. (FM 1-02, FM 4-30.3)
5. Brief the team on the mission. (FM 1-02, FM 4-30.3)
6. Deploy the maintenance support team. (FM 1-02, FM 4-30.3)

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Reviewed the request for maintenance support/maintenance situation.	—	—
2. Determined personnel and equipment requirements necessary to perform the mission.	—	—
3. Identified available resources for the support team, including personnel with applicable MOSs, vehicles, tools, test equipment, publications, repair parts, time, and facilities as necessary.	—	—
4. Determined requirements for defending the team.	—	—
5. Briefed the team on the mission.	—	—
6. Deployed the maintenance support team.	—	—

**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 1-02  
FM 4-30.3

**Related**

**Interpret a Standard Army Maintenance System (SAMS) Generated Maintenance Report  
091-CLT-3012**

**Conditions:** In a contemporary operational environment, given a computer system or systems with Standard Army Maintenance System-Level 1 (SAMS-1) software, database of equipment files, SAMS operator, Automated Information Systems Manual (AISM) 18-L21-AHN-BUR-UM, AISM 18-L26-AHO-BUR-EM, Department of the Army (DA) Form 2407 (Maintenance Request), DA Pamphlet 750-8, and applicable references.

**Standards:** Supervise SAMS-1 functions of a direct support level maintenance shop in accordance with applicable references.

**Performance Steps**

1. Ensure necessary equipment and publications were available. (AISM 18-L21-AHN-BUR-UM, AISM 18-L26-AHO-BUR-EM, DA FORM 2407, DA PAM 750-8)
2. Ensure SAMS operator was adequately trained. (AISM 18-L21-AHN-BUR-UM, AISM 18-L26-AHO-BUR-EM, DA FORM 2407, DA PAM 750-8)
3. Review the SAMS-1 system and the flow of information to and from system interfaces. (AISM 18-L21-AHN-BUR-UM, AISM 18-L26-AHO-BUR-EM, DA FORM 2407, DA PAM 750-8)
4. Review the purpose and use of SAMS-1 categories and codes. (AISM 18-L21-AHN-BUR-UM, AISM 18-L26-AHO-BUR-EM, DA FORM 2407, DA PAM 750-8)
5. Supervise the processing of maintenance requests (DA Form 2407). (AISM 18-L21-AHN-BUR-UM, AISM 18-L26-AHO-BUR-EM, DA FORM 2407, DA PAM 750-8)
6. Interpret SAMS-1 report to identify maintenance trends and problems. (AISM 18-L21-AHN-BUR-UM, AISM 18-L26-AHO-BUR-EM, DA FORM 2407, DA PAM 750-8)
7. Request and interpret ad hoc reports, as necessary. (AISM 18-L21-AHN-BUR-UM, AISM 18-L26-AHO-BUR-EM, DA FORM 2407, DA PAM 750-8)

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured necessary equipment and publications were available.	—	—
2. Ensured SAMS operator was adequately trained.	—	—
3. Reviewed the SAMS-1 system and the flow of information to and from system interfaces.	—	—
4. Reviewed the purpose and use of SAMS-1 categories and codes.	—	—
5. Supervised the processing of maintenance requests (DA Form 2407).	—	—
6. Interpreted SAMS-1 report to identify maintenance trends and problems.	—	—
7. Requested and interpreted ad hoc reports, as necessary.	—	—

**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 18-L21-AHN-BUR-UM

AISM 18-L26-AHO-BUR-EM

DA FORM 2407

DA PAM 750-8

**Related**

## Subject Area 5: Technical Tasks (SL 3)

**Perform Diagnostics on Pressure Timed (PT) Injection System on a Diesel Engine  
091-63H-3007**

**Conditions:** In a contemporary operational environment given a vehicle that idles rough and does not reach full power, replacement parts, required safety equipment, appropriate cleaning and lubricating materials, necessary tools, Army regulation (AR) 385-10, field manual (FM) 4-30.3, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 2407 (Maintenance Request), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), technical manual (TM) 9-2520-281-34, TM 9-2815-219-34, and other appropriate references, and other required hardware.

**Standards:** Inspected, tested, and adjusted the fuel system and replaced its components in accordance with applicable technical publications, procedures, and specifications. Following these procedures, the engine must start and run normally at both idle speed and high revolutions per minute (RPM), and the vehicle is fully mission capable.

**Performance Steps**

1. Review work request. (AR 385-10, DA FORM 5988-E, FM 4-30.3, TM 9-2520-281-34, TM 9-2815-219-34)
  - a. Ensure correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with applicable publications.
2. Select and use applicable publication. (AR 385-10, DA FORM 5988-E, FM 4-30.3, TM 9-2520-281-34, TM 9-2815-219-34)
  - a. Identify which TM is used.
  - b. Follow steps outlined in TM.
3. Perform initial inspection. (AR 385-10, DA FORM 5988-E, FM 4-30.3, TM 9-2520-281-34, TM 9-2815-219-34)
  - a. Follow steps outlined in TM for specified job.
  - b. Annotate any deficiencies on appropriate forms.
4. Select and use proper tools. (AR 385-10, DA FORM 5988-E, FM 4-30.3, TM 9-2520-281-34, TM 9-2815-219-34)
  - a. Use only tools supplied in basic issue items (BII).
  - b. Use appropriate tool designed for specified job.
5. Practice shop safety and maintenance discipline. (AR 385-10, DA FORM 5988-E, FM 4-30.3, TM 9-2520-281-34, TM 9-2815-219-34)
  - a. Follow guidelines outlined in unit standing operating procedure (SOP).
  - b. Ensure proper safety equipment is used.
  - c. Conduct risk assessment.
6. Ensure task is within shop capability. (AR 385-10, DA FORM 5988-E, FM 4-30.3, TM 9-2520-281-34, TM 9-2815-219-34)
  - a. Follow steps outlined in TM.
  - b. Fill out work request on DA Form 2407 for higher echelon, if required.
7. Perform functional test of injection system. (AR 385-10, DA FORM 5988-E, FM 4-30.3, TM 9-2520-281-34, TM 9-2815-219-34)
  - a. Follow steps outlined in TM.
  - b. Ensure adequate personnel are present to perform task.

**Performance Steps**

8. Perform final inspection of injection system. (AR 385-10, DA FORM 5988-E, FM 4-30.3, TM 9-2520-281-34, TM 9-2815-219-34)
  - a. Conduct a preventive maintenance checks and services (PMCS).
  - b. Annotate any deficiencies on appropriate forms that will hinder mission capability.
  - c. Ensure parts are identified and requisitioned, as required.
9. Maintain tools and equipment. (AR 385-10, DA FORM 5988-E, FM 4-30.3, TM 9-2520-281-34, TM 9-2815-219-34)
  - a. Ensure all tools are accounted for.
  - b. Ensure tools and equipment are cleaned and serviceable.
10. Complete DA Form 5988-E, as required. (AR 385-10, DA FORM 5988-E, FM 4-30.3, TM 9-2520-281-34, TM 9-2815-219-34)
  - a. Annotate faults corrected, as required.
  - b. Ensure supervisor signs in appropriate block.
  - c. Ensure paperwork is turned-in to Unit Level Logistics System (ULLS) clerk.

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	_____	_____
a. Ensured correct deficiency was annotated on DA Form 2404 and DA Form 5988-E.		
b. Ensured paperwork was in accordance with applicable publications.		
2. Selected and used applicable publication.	_____	_____
a. Identified which TM was used.		
b. Followed steps outlined in TM.		
3. Performed initial inspection.	_____	_____
a. Followed steps outlined in TM for specified job.		
b. Annotated any deficiencies on appropriate forms.		
4. Selected and used proper tools.	_____	_____
a. Used only tools supplied in BII.		
b. Used appropriate tool designed for specified job.		
5. Practiced shop safety and maintenance discipline.	_____	_____
a. Followed guidelines in unit SOP.		
b. Ensured proper safety equipment was used.		
c. Conducted risk assessment.		
6. Ensured task was within shop capability.	_____	_____
a. Followed steps outlined in TM.		
b. Filled out work request on DA Form 2407 for higher echelon, if required.		
7. Performed functional test of injection system.	_____	_____
a. Followed steps outlined in TM.		
b. Ensured adequate personnel were present to perform task.		
8. Performed final inspection of injection system.	_____	_____
a. Conducted a PMCS.		
b. Annotated any deficiencies on appropriate forms that will hinder mission capability.		
c. Ensured parts are identified and requisitioned, as required.		

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
9. Maintained tools and equipment.	—	—
a. Ensured all tools were accounted for.		
b. Ensured tools and equipment were cleaned and serviceable.		
10. Completed DA Form 5988-E, as required.	—	—
a. Annotated faults corrected, as required.		
b. Ensured supervisor signs in appropriate block.		
c. Ensured paperwork was turned-in to ULLS clerk.		

**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 385-10  
 DA FORM 2404  
 DA FORM 2407  
 DA FORM 5988-E  
 FM 4-30.3  
 TM 9-2520-281-34  
 TM 9-2815-219-34

**Related**

**Perform Diagnostics on Unit Type Injection System on a Diesel Engine**  
**091-63H-3008**

**Conditions:** In a contemporary operational environment given a vehicle that idles rough and does not reach full power, replacement parts, required safety equipment, appropriate cleaning and lubricating materials, necessary tools, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), DA Form 2407 (Maintenance Request), DA Pamphlet 738-751, DA Pamphlet 750-8, field manual (FM) 4-30.3, technical manual (TM) 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2520-272-34&P, TM 9-8000, other appropriate references, and other required hardware.

**Standards:** Inspected, tested, and adjusted the fuel system and adjusted and replaced its components in accordance with applicable technical publications procedures and specifications. Following these procedures, the engine started and ran normally at both idle speed and high revolutions per minute (RPM), and the vehicle was fully mission capable.

**Performance Steps**

1. Review work request. (DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2520-272-34&P, TM 9-8000)
  - a. Ensure correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with applicable publications.
2. Select and use applicable publication. (DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2520-272-34&P, TM 9-8000)
  - a. Identify which TM is used.
  - b. Follow steps outlined in TM.
3. Perform initial inspection. (DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2520-272-34&P, TM 9-8000)
  - a. Follow steps outlined in TM for specified job.
  - b. Annotate any deficiencies on appropriate forms.
4. Select and use proper tools. (DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2520-272-34&P, TM 9-8000)
  - a. Use only tools supplied by basic issue items (BII).
  - b. Use appropriate tool designed for specified job.
5. Practice shop safety and maintenance discipline. (DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2520-272-34&P, TM 9-8000)
  - a. Follow guidelines outlined in unit standing operating procedure (SOP).
  - b. Ensure proper safety equipment is used.
  - c. Conduct risk assessment.
6. Ensure task is within shop capability. (DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2520-272-34&P, TM 9-8000)
  - a. Follow steps outlined in TM.
  - b. Fill out work request on DA Form 2407 for higher echelon, if required.



**Performance Steps**

7. Perform final inspection of injection system. (DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2520-272-34&P, TM 9-8000)
  - a. Follow steps outlined in TM.
  - b. Ensure adequate personnel are present to perform task.
  - c. Check for leaks and tighten any loose parts.
8. Perform final inspection of injection system. (DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2520-272-34&P, TM 9-8000)
  - a. Conduct a preventive maintenance checks and services (PMCS).
  - b. Annotate any deficiencies on appropriate forms that will hinder mission capability.
  - c. Ensure parts are identified and requisitioned, as required.
9. Maintain tools and equipment. (DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2520-272-34&P, TM 9-8000)
  - a. Ensure all tools are accounted for.
  - b. Ensure tools and equipment are cleaned and serviceable.
10. Complete DA Form 5988-E, as required. (DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2350-261-10, TM 9-2350-261-20-1, TM 9-2350-261-20-2, TM 9-2350-261-20-3, TM 9-2520-272-34&P, TM 9-8000)
  - a. Annotate faults corrected, as required.
  - b. Ensure supervisor signs in appropriate block.
  - c. Ensure paperwork is turned-in to Unit Level Logistics System (ULLS) clerk.

**Evaluation Preparation: None**

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	_____	_____
a. Ensured correct deficiency was annotated on DA Form 2404 and DA Form 5988-E.		
b. Ensured paperwork was in accordance with applicable publications.		
2. Selected and used applicable publication.	_____	_____
a. Identified which TM was used.		
b. Followed steps outlined in TM.		
3. Performed initial inspection.	_____	_____
a. Followed steps outlined in TM for specified job.		
b. Annotated any deficiencies on appropriate forms.		
4. Selected and used proper tools.	_____	_____
a. Used only tools supplied in BII.		
b. Used appropriate tool designed for specified job.		
5. Practiced shop safety and maintenance discipline.	_____	_____
a. Followed guidelines outlined in unit SOP.		
b. Ensured proper safety equipment was used.		
c. Conducted risk assessment.		
6. Ensured task was within shop capability.	_____	_____
a. Followed steps outlined in TM.		
b. Filled out work request on DA Form 2407 for higher echelon, if required.		

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
7. Performed functional test of injection system.	_____	_____
a. Followed steps outlined in TM.		
b. Ensured adequate personnel were present to perform task.		
c. Checked for leaks and tightened any loose parts.		
8. Performed final inspection of injection system.	_____	_____
a. Conducted a PMCS.		
b. Annotated any deficiencies on appropriate forms that would hinder mission capability.		
c. Ensured parts were identified and requisitioned, as required.		
9. Maintained tools and equipment.	_____	_____
a. Ensured all tools were accounted for.		
b. Ensured tools and equipment were cleaned and serviceable.		
10. Completed DA Form 5988-E, as required.	_____	_____
a. Annotated faults corrected, as required.		
b. Ensured supervisor signed in appropriate block.		
c. Ensured paperwork was turned-in to ULLS clerk.		

**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**

- DA FORM 2404
- DA FORM 2407
- DA FORM 5988-E
- DA PAM 738-751
- DA PAM 750-8
- FM 4-30.3
- TM 9-2350-261-10
- TM 9-2350-261-20-1
- TM 9-2350-261-20-2
- TM 9-2350-261-20-3
- TM 9-2520-272-34&P
- TM 9-8000

**Related**

**Perform Diagnostics on Distributor Type Injection System on a Diesel Engine**  
**091-63H-3009**

**Conditions:** In a contemporary operational environment given a vehicle that idles rough and does not reach full power, replacement parts, required safety equipment, appropriate cleaning and lubricating materials, necessary tools, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), DA Form 2407 (Maintenance Request), Army regulation (AR) 385-10, DA Pamphlet 738-751, DA Pamphlet 750-8, field manual (FM) 4-30.3, technical manual (TM) 9-2815-220-24, TM 9-8000, other appropriate references, and other required hardware.

**Standards:** Performed diagnostics on the distributor type injection system in accordance with applicable TM procedures and specifications. When this task was completed, the equipment or end item was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Review work request. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2815-220-24, TM 9-8000)
  - a. Ensure correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with applicable publications.
2. Select and use applicable publication. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2815-220-24, TM 9-8000)
  - a. Identify which TM will be used.
  - b. Follow steps outlined in TM.
3. Perform initial inspection. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2815-220-24, TM 9-8000)
  - a. Follow steps outlined in TM for specified job.
  - b. Annotate any deficiencies on appropriate forms.
4. Select and use proper tools. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2815-220-24, TM 9-8000)
  - a. Use tools supplied in basic issue items (BII).
  - b. Use appropriate tools designed for specified job.
5. Practice shop safety and maintenance discipline. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2815-220-24, TM 9-8000)
  - a. Follow guidelines outlined in unit standing operating procedure (SOP).
  - b. Ensure proper safety equipment is used.
  - c. Conduct risk assessment.
6. Ensure task are within shop capability. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2815-220-24, TM 9-8000)
  - a. Follow steps outlined in TM.
  - b. Fill out work request on DA Form 2407 for higher echelon, if required.
7. Perform functional test of injection system. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2815-220-24, TM 9-8000)
  - a. Follow steps outlined in TM.
  - b. Ensure adequate personnel are present to perform task.
  - c. Check for leaks and tighten any loose parts.

**Performance Steps**

8. Perform final inspection of injection system. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2815-220-24, TM 9-8000)
  - a. Conduct a preventive maintenance checks and services (PMCS).
  - b. Annotate any deficiencies on appropriate forms that will hinder mission capability.
  - c. Ensure parts are identified and requisitioned, as required.
9. Maintain tools and equipment. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2815-220-24, TM 9-8000)
  - a. Ensure all tools are accounted for.
  - b. Ensure tools and equipment are cleaned and serviceable.
10. Complete DA Form 5988-E, as required. (AR 385-10, DA FORM 5988-E, DA PAM 738-751, DA PAM 750-8, FM 4-30.3, TM 9-2815-220-24, TM 9-8000)
  - a. Annotate faults corrected, as required.
  - b. Ensure supervisor signs in appropriate block.
  - c. Ensure paperwork is turned-in to Unit Level Logistics System (ULLS) clerk.

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	_____	_____
a. Ensured correct deficiency was annotated on DA Form 2404 and DA Form 5988-E.		
b. Ensured paperwork was in accordance with applicable publications.		
2. Selected and used applicable publication.	_____	_____
a. Identified which TM was used.		
b. Followed steps outlined in TM.		
3. Performed initial inspection.	_____	_____
a. Followed steps outlined in TM for specified job.		
b. Annotated any deficiencies on appropriate forms.		
4. Selected and used proper tools.	_____	_____
a. Used tools supplied in BII.		
b. Used appropriate tools designed for specified job.		
5. Practiced shop safety and maintenance discipline.	_____	_____
a. Followed guidelines outlined in unit SOP.		
b. Ensured proper safety equipment was used.		
6. Ensured task was within shop capability.	_____	_____
a. Followed steps outlined in TM.		
b. Filled out work request on DA Form 2407 for higher echelon, if required.		
7. Performed functional test of injection system.	_____	_____
a. Followed steps outlined in TM.		
b. Ensured adequate personnel were present to perform task.		
c. Checked for leaks and tightened any loose parts.		
8. Performed final inspection of injection system.	_____	_____
a. Conducted a PMCS.		
b. Annotated any deficiencies on appropriate forms that would hinder mission capability.		
c. Ensured parts were identified and requisitioned, as required.		

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
9. Maintained tools and equipment.	—	—
a. Ensured all tools were accounted for.		
b. Ensured tools and equipment were cleaned and serviceable.		
10. Completed DA Form 5988-E, as required.	—	—
a. Annotated faults corrected, as required.		
b. Ensured supervisor signed in appropriate block.		
c. Ensured paperwork was turned-in to ULLS clerk.		

**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 385-10  
 DA FORM 2404  
 DA FORM 2407  
 DA FORM 5988-E  
 DA PAM 738-751  
 DA PAM 750-8  
 FM 4-30.3  
 TM 9-2815-220-24  
 TM 9-8000

**Related**

**Perform Diagnostics on Automatic Transmissions on a Tracked Vehicle**  
**091-63H-3025**

**Conditions:** In a contemporary operational environment given a vehicle with a transmission that is excessively noisy during operation, replacement parts, required safety equipment, appropriate cleaning and lubricating materials, necessary tools and other required hardware, and applicable references including Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), Army regulation (AR) 385-10, field manual (FM) 4-30.3, DA Pamphlet 750-8, technical manual (TM) 9-2520-215-34, TM 9-2520-223-34&P, TM 9-2520-246-34, TM 9-2520-272-34&P, and TM 9-2520-281-34.

**Standards:** Inspected, tested, and adjusted the transmission in accordance with applicable technical publications, procedures, and specifications. Following these procedures the transmission was serviceable and ready for installation in a vehicle.

**Performance Steps**

1. Review work request. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2520-215-34, TM 9-2520-246-34, TM 9-2520-254-34, TM 9-2520-270-34, TM 9-2520-281-34)
  - a. Ensure correct vehicle is on appropriate form.
  - b. Ensure correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.
  - c. Ensure work is within shop capability.
2. Perform initial inspection. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2520-215-34, TM 9-2520-246-34, TM 9-2520-254-34, TM 9-2520-270-34, TM 9-2520-281-34)
  - a. Conduct preventive maintenance checks and services (PMCS) in accordance with TM.
  - b. Annotate any deficiencies on appropriate forms.
3. Select and use proper tools. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2520-215-34, TM 9-2520-246-34, TM 9-2520-254-34, TM 9-2520-270-34, TM 9-2520-281-34)
  - a. Use only tools supplied in basic issue items (BII).
  - b. Ensure tools are appropriate for specified job.
4. Practice shop safety and maintenance discipline. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2520-215-34, TM 9-2520-246-34, TM 9-2520-254-34, TM 9-2520-270-34, TM 9-2520-281-34)
  - a. Follow guidelines outlined in standing operating procedure (SOP).
  - b. Follow guidelines outlined in motor pool.
5. Perform diagnostics on automatic transmission. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2520-215-34, TM 9-2520-246-34, TM 9-2520-254-34, TM 9-2520-270-34, TM 9-2520-281-34)
  - a. Check transmission fluid level.
  - b. Check seals, gaskets and o-rings, if required.
  - c. Ensure sensors are serviceable.
6. Ensure parts are identified and requisitioned as required. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2520-215-34, TM 9-2520-246-34, TM 9-2520-254-34, TM 9-2520-270-34, TM 9-2520-281-34)
  - a. Ensure parts are replaced, if necessary.
  - b. Order any part that is not on hand on appropriate form.
  - c. Ensure part is tagged and labeled for turn-in.

**Performance Steps**

7. Perform final inspection of automatic transmission. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2520-215-34, TM 9-2520-246-34, TM 9-2520-254-34, TM 9-2520-270-34, TM 9-2520-281-34)
  - a. Conduct an after PMCS.
  - b. Annotate any deficiencies on appropriate forms that would hinder mission readiness.
8. Maintain tools and equipment. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2520-215-34, TM 9-2520-246-34, TM 9-2520-254-34, TM 9-2520-270-34, TM 9-2520-281-34)
  - a. Ensure all tools are accounted for.
  - b. Ensure all tools and equipment are cleaned.
  - c. Turned in any broken tools to be requisitioned.
9. Complete DA Form 5988-E, as required. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2520-215-34, TM 9-2520-246-34, TM 9-2520-254-34, TM 9-2520-270-34, TM 9-2520-281-34)
  - a. Annotate any faults corrected, as required.
  - b. Ensure supervisor signs in appropriate block.
  - c. Ensure paperwork is turned into Unit Level Logistics System (ULLS) clerk.

**Evaluation Preparation: None**

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request. <ol style="list-style-type: none"> <li>a. Ensured correct vehicle was on appropriate form.</li> <li>b. Ensured correct deficiency was annotated on DA Form 2404 and DA Form 5988-E.</li> <li>c. Ensured work was within shop capability.</li> </ol>	—	—
2. Performed initial inspection. <ol style="list-style-type: none"> <li>a. Conducted PMCS in accordance with TM.</li> <li>b. Annotated any deficiencies on appropriate forms.</li> </ol>	—	—
3. Selected and used proper tools. <ol style="list-style-type: none"> <li>a. Used only tools supplied in BII.</li> <li>b. Ensured tools were appropriate for specified job.</li> </ol>	—	—
4. Practiced shop safety and maintenance discipline. <ol style="list-style-type: none"> <li>a. Followed guidelines outlined in SOP.</li> <li>b. Followed guidelines outlined in motor pool.</li> </ol>	—	—
5. Performed diagnostics on automatic transmission. <ol style="list-style-type: none"> <li>a. Checked transmission fluid level.</li> <li>b. Checked seals, gaskets and o-rings, if required.</li> <li>c. Ensured sensors were serviceable.</li> </ol>	—	—
6. Ensured parts were identified and requisitioned as required. <ol style="list-style-type: none"> <li>a. Ensured parts were replaced, if necessary.</li> <li>b. Ordered any part that was not on hand on appropriate form.</li> <li>c. Ensured part was tagged and labeled for turn-in.</li> </ol>	—	—
7. Performed final inspection of automatic transmission. <ol style="list-style-type: none"> <li>a. Conducted an after PMCS.</li> <li>b. Annotated any deficiencies on appropriate forms that would hinder mission readiness.</li> </ol>	—	—

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
8. Maintained tools and equipment.	_____	_____
a. Ensured all tools were accounted for.		
b. Ensured all tools and equipment were cleaned.		
c. Turned in any broken tools to be requisitioned.		
9. Completed DA Form 5988-E, as required.	_____	_____
a. Annotated any faults corrected, as required.		
b. Ensured supervisor signed in appropriate block.		
c. Ensured paperwork is turned in to the ULLS clerk.		

**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 385-10
- DA FORM 2404
- DA FORM 5988-E
- DA PAM 750-8
- FM 4-30.3
- TM 9-2520-215-34
- TM 9-2520-246-34
- TM 9-2520-254-34
- TM 9-2520-270-34
- TM 9-2520-281-34

**Related**



**Perform Diagnostics on Electrical Circuits on a Tracked Vehicle**  
**091-63H-3120**

**Conditions:** In a contemporary operational environment given a tracked vehicle, necessary tools and test equipment, replacement parts if needed, and other applicable references including Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), Army regulation (AR) 385-10, DA Pamphlet 750-8, field manual (FM) 4-30.3, technical manual (TM) 9-2350-277-20-1, TM 9-2350-277-20-2, TM 9-2350-277-20-3, TM 9-2815-219-34, TM 9-2815-220-24, and TM 9-2815-242-34.

**Standards:** Performed diagnostics on a selected tracked vehicle in accordance with applicable technical publications procedures and specifications. When this task was completed, the vehicle was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Review work request. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2815-219-34, TM 9-2815-242-34, TM 9-2920-225-34)
  - a. Ensure correct vehicle is on appropriate form.
  - b. Ensure correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.
  - c. Ensure work is within shop capability.
2. Perform initial inspection. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2815-219-34, TM 9-2815-242-34, TM 9-2920-225-34)
  - a. Identify correct TM for specified job.
  - b. Follow steps outlined in TM.
  - c. Annotate any deficiencies on appropriate forms.
3. Ensure proper tools are available to inspect, repair/replace and test electrical circuit. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2815-219-34, TM 9-2815-242-34, TM 9-2920-225-34)
  - a. Use tools designed for specified job.
  - b. Ensure tools are serviceable.
4. Practice shop safety and maintenance discipline. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2815-219-34, TM 9-2815-242-34, TM 9-2920-225-34)
  - a. Follow steps outlined in TM.
  - b. Ensure proper safety equipment is used, if required.
  - c. Follow guidelines outlined in motor pool.
5. Diagnose electrical circuit and determine maintenance actions to be performed. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2815-219-34, TM 9-2815-242-34, TM 9-2920-225-34)
  - a. Follow steps outlined in TM.
  - b. Ensure proper test equipment is used.
6. Identify and requisition repair parts, if required. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2815-219-34, TM 9-2815-242-34, TM 9-2920-225-34)
  - a. Replace any broken part that is not on hand.
  - b. Order any part that is not on hand on appropriate form.
  - c. Tag and label any unserviceable part for turn-in.
7. Perform final inspection of electrical circuit. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2815-219-34, TM 9-2815-242-34, TM 9-2920-225-34)
  - a. Conduct an after preventive maintenance checks and services (PMCS).
  - b. Ensure all components are connected properly.

**Performance Steps**

8. Maintain tools and equipment. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2815-219-34, TM 9-2815-242-34, TM 9-2920-225-34)
  - a. Ensure all tools are accounted for.
  - b. Ensure all tools and equipment are cleaned.
  - c. Turned in any broken tools.
9. Complete DA Form 5988-E, as required. (AR 385-10, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2815-219-34, TM 9-2815-242-34, TM 9-2920-225-34)
  - a. Annotate any faults corrected, as required.
  - b. Ensure supervisor signs in appropriate block.
  - c. Ensure paperwork is turned in to Unit Level Logistics System (ULLS) clerk.

**Evaluation Preparation: None**

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request. <ol style="list-style-type: none"> <li>a. Ensured correct vehicle was on appropriate forms.</li> <li>b. Ensured correct deficiency was annotated on DA Form 2404 and DA Form 5988-E.</li> <li>c. Ensured work was within shop capability.</li> </ol>	—	—
2. Performed initial inspection. <ol style="list-style-type: none"> <li>a. Identified correct TM for specified job.</li> <li>b. Followed steps outlined in TM.</li> <li>c. Annotated any deficiencies on appropriate forms.</li> </ol>	—	—
3. Ensured proper tools were available to inspect, repair/replaced and test electrical circuit. <ol style="list-style-type: none"> <li>a. Used tools deigned for specified job.</li> <li>b. Ensured tools were serviceable.</li> </ol>	—	—
4. Practiced shop safety and maintenance discipline. <ol style="list-style-type: none"> <li>a. Followed steps outlined in TM.</li> <li>b. Ensured proper safety equipment was used, if required.</li> <li>c. Followed guidelines outlined in motor pool.</li> </ol>	—	—
5. Diagnosed electrical circuit and determined maintenance actions to be performed. <ol style="list-style-type: none"> <li>a. Followed steps outlined in TM.</li> <li>b. Ensured proper test equipment was used.</li> </ol>	—	—
6. Identified and requisitioned repair parts, if required. <ol style="list-style-type: none"> <li>a. Replaced any broken part that was on hand.</li> <li>b. Ordered any part that was not on hand on appropriate form.</li> <li>c. Tagged and labeled any unserviceable part for turn-in.</li> </ol>	—	—
7. Performed final inspection of electrical circuit. <ol style="list-style-type: none"> <li>a. Conducted an after PMCS.</li> <li>b. Ensured all components were connected properly.</li> </ol>	—	—

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
8. Maintained tools and equipment.	—	—
a. Ensured all tools were accounted for.		
b. Ensured all tools and equipment were cleaned.		
c. Turned in any broken tools.		
9. Completed DA Form 5988-E, as required.	—	—
a. Annotated any faults corrected, as required.		
b. Ensured supervisor signed in appropriate block.		
c. Ensured paperwork was turned in to ULLS clerk.		

**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 385-10	
DA FORM 2404	
DA FORM 5988-E	
DA PAM 750-8	
FM 4-30.3	
TM 9-2350-277-20-1	
TM 9-2350-277-20-2	
TM 9-2350-277-20-3	
TM 9-2815-219-34	
TM 9-2815-242-34	
TM 9-2920-225-34	

**Perform Diagnostics on Hydraulic System on a Tracked Vehicle**  
**091-63H-3122**

**Conditions:** In a contemporary operational environment given a vehicle that has a hydraulic oil leak; hydraulic system; replacement parts; required safety equipment; appropriate cleaning and lubricating materials; necessary tools and other required hardware; Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), Army regulation (AR) 385-10, DA Pamphlet 750-8, field manual (FM) 4-30.3, technical manual (TM) 9-2350-256-34, TM 9-2815-219-34, TM 9-2815-242-34, and applicable references.

**Standards:** Inspected, tested, and adjusted the hydraulic system in accordance with applicable technical publications procedures and specifications. Following these procedures the vehicle did not leak oil and was fully mission capable.

**Performance Steps**

1. Review work request. (AR 385-10, DA FORM 2407, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2350-256-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Ensure correct vehicle is annotated on appropriate form.
  - b. Ensure correct deficiency is annotated on DA Form 2404 and DA Form 5988-E.
  - c. Ensure work is within shop capability.
2. Perform initial inspection. (AR 385-10, DA FORM 2407, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2350-256-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Identify correct technical manual (TM) for specified job.
  - b. Follow steps outlined in TM.
  - c. Annotate any deficiencies on appropriate forms.
3. Ensure proper tools are available to inspect, repair/replace and test the hydraulic systems. (AR 385-10, DA FORM 2407, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2350-256-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Use tools designed for specified job.
  - b. Ensure tools are serviceable.
4. Practice shop safety and maintenance discipline. (AR 385-10, DA FORM 2407, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2350-256-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Follow steps outlined in TM.
  - b. Ensure proper safety equipment is used, if required.
  - c. Follow guidelines in motor pool.
5. Diagnose hydraulic system faults, and determine maintenance actions to be performed. (AR 385-10, DA FORM 2407, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2350-256-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Follow steps outlined in TM.
  - b. Ensure proper test equipment is used.
6. Identify and requisition repair parts, if required. (AR 385-10, DA FORM 2407, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2350-256-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Replace any broken part that is on hand.
  - b. Order any part that is not on hand on appropriate form.
  - c. Tag and label any unserviceable part for turn-in.
7. Perform functional test of the hydraulic system. (AR 385-10, DA FORM 2407, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2350-256-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Conduct an after preventive maintenance checks and services (PMCS).
  - b. Conduct final inspection to ensure hydraulic system is fully mission capable.
  - c. Ensure components are connected properly.

**Performance Steps**

8. Ensure maintenance forms are completed, as required. (AR 385-10, DA FORM 2407, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2350-256-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Annotated any faults corrected.
  - b. Ensure supervisor signs in appropriate block.
  - c. Ensure paperwork is turned in to Unit Level Logistics System (ULLS) clerk.
9. Ensure tools and equipment are properly maintained. (AR 385-10, DA FORM 2407, DA FORM 5988-E, DA PAM 750-8, FM 4-30.3, TM 9-2350-256-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Ensure all tools are accounted for.
  - b. Ensure tools and equipment are cleaned in accordance with Environmental Protection Agency (EPA) guidelines.

**Evaluation Preparation: None**

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
a. Ensured correct vehicle was on appropriate form.		
b. Ensured correct deficiency was annotated on DA Form 2404 and DA Form 5988-E.		
c. Ensured work was within shop capability.		
2. Performed initial inspection.	—	—
a. Identified correct TM for specified job.		
b. Followed steps outlined in TM.		
c. Annotated any deficiencies on appropriate forms.		
3. Ensured proper tools were available to inspect, repair/replace, and test the hydraulic systems.	—	—
a. Used tools designed for specified job.		
b. Ensured tools were serviceable.		
4. Practiced shop safety and maintenance discipline.	—	—
a. Followed steps outlined in technical manual.		
b. Ensured proper safety equipment was used, if required.		
c. Followed guidelines in motor pool.		
5. Diagnosed hydraulic system faults, and determined maintenance actions to be performed.	—	—
a. Followed steps outlined in TM.		
b. Ensured proper test equipment was used.		
6. Identified and requisitioned repair parts, if required.	—	—
a. Replaced any broken part that was on hand.		
b. Ordered any part that was not on hand on appropriate form.		
c. Tagged and labeled any unserviceable part for turn-in.		
7. Performed functional test of the hydraulic systems.	—	—
a. Conducted an after PMCS.		
b. Conducted final inspection to ensure hydraulic system was fully mission capable.		
c. Ensured components were connected properly.		

**Performance Measures**

**GO**      **NO-GO**

- |  |                   |                   |
|--|-------------------|-------------------|
| <ul style="list-style-type: none"> <li>8. Ensured maintenance forms were completed, as required.                             <ul style="list-style-type: none"> <li>a. Annotated any faults corrected.</li> <li>b. Ensured supervisor signed in appropriate block.</li> <li>c. Ensured paperwork was turned in to ULLS clerk.</li> </ul> </li> <br/> <li>9. Ensured tools and equipment were properly maintained.                             <ul style="list-style-type: none"> <li>a. Ensured all tools were accounted for.</li> <li>b. Ensured tools and equipment were cleaned in accordance with EPA guidelines.</li> </ul> </li> </ul> | <p>—</p> <p>—</p> | <p>—</p> <p>—</p> |
|--|-------------------|-------------------|

**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 385-10
- DA FORM 2404
- DA FORM 5988-E
- DA PAM 750-8
- FM 4-30.3
- TM 9-2350-256-34
- TM 9-2815-219-34
- TM 9-2815-242-34

**Related**

- DA FORM 2407

**Perform Battlefield Damage Assessment and Repair (BDAR) on a Tracked Vehicle  
091-63H-3125**

**Conditions:** In a contemporary operational environment given a disabled tracked vehicle; maintenance team; BDAR kit; and applicable forms and references including Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), DA Form 2407 (Maintenance Request), DA Pamphlet 750-8, DA Pamphlet 738-751, field manual (FM) 4-30.3, FM 4-30.31, technical manual (TM) 9-1450-646-BD, TM 9-2350-275-BD, and TM 9-6115-624-BD; and other applicable references and equipment.

**Standards:** Performed BDAR to restore a disabled 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 paperwork in accordance with applicable references.

**Performance Steps**

1. Select and use applicable publications. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 9-1450-646-BD, TM 9-2350-275-BD, TM 9-6115-624-BD)
  - a. Identify which TM will be used.
  - b. Follow steps outlined in TM.
2. Select and use correct tools and BDAR kit. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 9-1450-646-BD, TM 9-2350-275-BD, TM 9-6115-624-BD)
  - a. Use only tools supplied in BII and BDAR kit.
  - b. Ensure all tools are serviceable.
3. Follow prescribed safety procedures. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 9-1450-646-BD, TM 9-2350-275-BD, TM 9-6115-624-BD)
  - a. Follow safety guidelines outlined TM.
  - b. Ensure proper safety equipment is used.
4. Perform BDAR initial inspection. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 9-1450-646-BD, TM 9-2350-275-BD, TM 9-6115-624-BD)
  - a. Ensure assessment and safety checks are made.
  - b. Perform self test.
5. Diagnose vehicle malfunction to determine maintenance action to be performed. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 9-1450-646-BD, TM 9-2350-275-BD, TM 9-6115-624-BD)
  - a. Test equipment with the organization/direct support maintenance equipment.
  - b. Ensure equipment is within shop capabilities.
  - c. Fill out work request DA Form 2407, if required.
6. Verify repair parts are identified and requisitioned as required. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 9-1450-646-BD, TM 9-2350-275-BD, TM 9-6115-624-BD)
  - a. Fill out appropriate forms, as required.
  - b. Annotate any deficiencies on appropriate forms.

**Performance Steps**

7. Complete The Army Maintenance Management System (TAMMS) forms, as required. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 9-1450-646-BD, TM 9-2350-275-BD, TM 9-6115-624-BD)
  - a. Annotate faults corrected, if required.
  - b. Ensure paperwork is turned in to Unit Level Logistics System (ULLS) clerk.
8. Maintain tools and equipment. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 9-1450-646-BD, TM 9-2350-275-BD, TM 9-6115-624-BD)
  - a. Ensure all tools are accounted for.
  - b. Ensure tools and equipment are cleaned.

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. <ol style="list-style-type: none"> <li>a. Identified which TM was used.</li> <li>b. Followed steps outlined in TM.</li> </ol>	—	—
2. Selected and used correct tools and BDAR kit. <ol style="list-style-type: none"> <li>a. Used only tools supplied in BII and BDAR kit.</li> <li>b. Ensured all tools were serviceable.</li> </ol>	—	—
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> <li>a. Followed safety guidelines outlined TM.</li> <li>b. Ensured proper safety equipment was used.</li> </ol>	—	—
4. Performed BDAR initial inspection. <ol style="list-style-type: none"> <li>a. Ensured assessment and safety checks were made.</li> <li>b. Performed self test.</li> </ol>	—	—
5. Diagnosed vehicle malfunction to determine maintenance action to be performed. <ol style="list-style-type: none"> <li>a. Tested equipment with the organization/direct support maintenance equipment.</li> <li>b. Ensured equipment was within shop capabilities.</li> <li>c. Filled out work request DA Form 2407, if required.</li> </ol>	—	—
6. Verified repair parts were identified and requisitioned as required. <ol style="list-style-type: none"> <li>a. Filled out appropriate form to requisition part.</li> <li>b. Annotated any deficiencies on appropriate forms.</li> </ol>	—	—
7. Completed TAMMS forms, as required. <ol style="list-style-type: none"> <li>a. Annotated faults corrected, if required.</li> <li>b. Ensured paperwork was turned in to ULLS clerk.</li> </ol>	—	—
8. Maintained tools and equipment. <ol style="list-style-type: none"> <li>a. Ensured all tools were accounted for.</li> <li>b. Ensured tools and equipment were cleaned.</li> </ol>	—	—

**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**

DA FORM 2404  
DA FORM 2407  
DA FORM 5988-E  
DA PAM 738-751  
DA PAM 750-8  
FM 4-30.3  
FM 4-30.31  
TM 9-1450-646-BD  
TM 9-2350-275-BD  
TM 9-6115-624-BD

**Related**

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

**Perform Diagnostic on the Power Distribution on a Tracked Vehicle**  
**091-63H-3130**

**Conditions:** In a contemporary operational environment given necessary equipment, tools, materials, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), DA Form 2407 (Maintenance Request), DA Pamphlet 750-8, DA Pamphlet 738-751, field manual (FM) 4-30.3, technical manual (TM) 9-1450-646-10, TM 9-1450-646-20-1, TM 9-1450-646-20-2, TM 9-1450-646-20-3, TM 9-1450-646-20-4, TM 9-1450-646-20-5, TM 9-2520-281-34, TM 9-2815-219-34, TM 9-2815-242-34, TM 750-245-4, and other applicable references.

**Standards:** Performed diagnostic on the power distribution system on a tracked vehicle in accordance with applicable references without causing damage to equipment and injury to personnel. When this task was completed, the vehicle or equipment was fully mission capable or required maintenance actions by other than 63H personnel had been identified.

**Performance Steps**

1. Select and use applicable publication. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 750-245-4, TM 9-2520-281-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Identify which TM will be used.
  - b. Follow steps outlined in TM.
2. Select and used correct tools. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 750-245-4, TM 9-2520-281-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Use tools only supplied in basic issue items (BII).
  - b. Ensured applicable tools were serviceable.
3. Follow prescribed safety procedures. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 750-245-4, TM 9-2520-281-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Follow safety guidelines outlined in TM.
  - b. Follow safety precautions outlined in unit standing operating procedure (SOP).
4. Perform diagnostic test. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 750-245-4, TM 9-2520-281-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Follow steps outlined in TM.
  - b. Ensure proper test equipment is used.
5. Identify and requisition any repair parts. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 750-245-4, TM 9-2520-281-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Replace any broken or worn parts that are on hand.
  - b. Order any part that is not on hand on appropriate form.
  - c. Verify fault is corrected, if required.
6. Perform a final operational check to verify part was replaced to specifications. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 750-245-4, TM 9-2520-281-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Conduct a preventive maintenance checks and services (PMCS).
  - b. Ensure all components are connected properly.
  - c. Verify fault was corrected, if required.

**Performance Steps**

7. Maintain tools and equipment. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 750-245-4, TM 9-2520-281-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Ensure all tools and equipment are cleaned.
  - b. Ensure all tools are accounted for.
  - c. Turn in any broken tools.
  
8. Complete DA Form 5988-E, as required. (DA FORM 2404, DA FORM 2407, DA PAM 738-751, DA PAM 750-8, DD FORM 1577, DD FORM 1577-1, DD FORM 1577-2, DD FORM 1577-3, FM 4-30.3, TM 750-245-4, TM 9-2520-281-34, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Annotate any faults corrected on appropriate form.
  - b. Ensure paperwork is turned in to Unit Level Logistics System (ULLS) clerk.

**Evaluation Preparation: None**

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable publications. <ol style="list-style-type: none"> <li>a. Identified which TM was used.</li> <li>b. Followed steps outlined in TM.</li> </ol>	—	—
2. Selected and used correct tools. <ol style="list-style-type: none"> <li>a. Used tools only supplied in BII.</li> <li>b. Ensured applicable tools were serviceable.</li> </ol>	—	—
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> <li>a. Followed safety guidelines outlined in TM.</li> <li>b. Followed safety precautions outlined in unit SOP.</li> </ol>	—	—
4. Performed diagnostic test. <ol style="list-style-type: none"> <li>a. Followed steps outlined in TM.</li> <li>b. Ensured proper test equipment was used.</li> </ol>	—	—
5. Identified and requisitioned any repair parts. <ol style="list-style-type: none"> <li>a. Replaced any broken or worn parts that are on hand.</li> <li>b. Ordered any part that was not on hand on appropriate form.</li> <li>c. Tagged and labeled any unserviceable part for turn in.</li> </ol>	—	—
6. Performed a final operational check to verify part was replaced to specifications. <ol style="list-style-type: none"> <li>a. Conducted a PMCS.</li> <li>b. Ensured all components were connected properly.</li> <li>c. Verified fault was corrected, if required.</li> </ol>	—	—
7. Maintained tools and equipment. <ol style="list-style-type: none"> <li>a. Ensured all tools and equipment were cleaned.</li> <li>b. Ensured all tools were accounted for.</li> <li>c. Turned in any broken tools.</li> </ol>	—	—
8. Completed DA Forms 5988-E, as required. <ol style="list-style-type: none"> <li>a. Annotated any faults corrected on appropriate form.</li> <li>b. Ensured paperwork was turned in to ULLS clerk.</li> </ol>	—	—

**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**

DA FORM 2404  
DA FORM 2407  
DA FORM 5988-E  
DA PAM 738-751  
DA PAM 750-8  
FM 4-30.3  
TM 9-1450-646-10  
TM 9-1450-646-20-1  
TM 9-1450-646-20-2  
TM 9-1450-646-20-3  
TM 9-1450-646-20-4  
TM 9-1450-646-20-5  
TM 9-2520-281-34  
TM 9-2815-219-34  
TM 9-2815-242-34  
TM 750-245-4

**Related**

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

**Perform Diagnostics on a Diesel Engine**  
**091-63H-3136**

**Conditions:** In a contemporary operational environment given an applicable vehicle; general mechanic's tool kit; additional tools; test, measurement, and diagnostic equipment (TMDE); Department of the Army (DA) Form 5988-E (Equipment Inspection Maintenance Worksheet), Army regulation (AR) 385-10, AR 750-1, AR 750-43, technical manual (TM) 9-2815-219-34, TM 9-2815-242-34, equipment as indicated in the appropriate (TMs); a maintenance request or equipment inspection worksheet describing equipment malfunctions; and applicable references.

**Standards:** Performed diagnostics on tracked vehicle engines in accordance with the applicable technical publication procedures and specifications (see maintenance allocation chart for exact procedures authorized for each military occupation specialty (MOS) and skill level (SL)). When this task was completed, the vehicle or equipment was fully mission capable or required maintenance actions by other than 63H personnel had been identified.

**Performance Steps**

1. Review work request. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Ensure correct vehicle is on appropriate form.
  - b. Ensure correct deficiency is annotated on DA Form 5988-E.
  - c. Ensure work is within shop capabilities.
2. Ensure applicable technical publications are available. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Identify which TM is to be used.
  - b. Follow steps outlined in TM.
3. Ensure proper tools are available to inspect, repair/replace and test the diesel engines. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Use tools designed for specified job.
  - b. Ensure tools are serviceable.
4. Perform initial inspection. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Identify correct TM for specified job.
  - b. Follow steps outlined in TM.
  - c. Annotated any deficiencies on appropriate form.
5. Diagnose diesel engine faults and determine maintenance actions to be performed. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Follow steps outlined in TM.
  - b. Ensure proper test equipment is to be used.
  - c. Ensure proper safety equipment is used.
6. Identify and requisition replacement parts, if required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Replace any broken or worn part that is not on hand.
  - b. Order any part that is not on hand on appropriate form.
  - c. Tag and label any unserviceable part for turn in.
7. Ensure all safety precautions and procedures are followed. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Follow safety guidelines outlined in motor pool.
  - b. Follow steps outlined in unit standing operating procedure (SOP).

**Performance Steps**

8. Perform a final inspection to ensure the diesel engines are fully mission capable. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Conduct a preventive maintenance checks and services (PMCS).
  - b. Ensure components are connected properly.
9. Ensure maintenance forms are completed, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Annotate any faults corrected on appropriate forms.
  - b. Ensure any parts not on hand are ordered.
  - c. Ensure forms are turned in to Unit Level Logistics System (ULLS) clerk.
10. Ensure tools and equipment are properly maintained. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Ensure all tools are accounted for.
  - b. Ensure tools and equipment are cleaned in accordance with Environmental Protection Agency (EPA) guidelines.

**Evaluation Preparation:** None

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
1. Reviewed work request.	—	—
a. Ensured correct vehicle was on appropriate form.		
b. Ensured correct deficiency was annotated on DA Form 5988-E.		
c. Ensured work was within shop capabilities.		
2. Ensured applicable technical publications were available.	—	—
a. Identified which TM was used.		
b. Followed steps outlined in TM.		
3. Ensured proper tools were available to inspect, repair/replace, and test the diesel engines.	—	—
a. Used tools designed for specified job.		
b. Ensured tools were serviceable.		
4. Performed initial inspection.	—	—
a. Identified correct TM for specified job.		
b. Followed steps outlined in TM.		
c. Annotated any deficiencies on appropriate form.		
5. Diagnosed diesel engine faults and determined maintenance actions to be performed.	—	—
a. Followed steps outlined in TM.		
b. Ensured proper test equipment was used.		
c. Ensured proper safety equipment was used.		
6. Identified and requisitioned replacement parts, if required.	—	—
a. Replaced any broken or worn part that was on hand.		
b. Ordered any part that was not on hand on appropriate form.		
c. Tagged and labeled any unserviceable part for turn in.		
7. Ensured all safety precautions and procedures were followed.	—	—
a. Followed safety guidelines outlined in motor pool.		
b. Followed steps outlined in unit standing operating procedure (SOP).		

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
8. Performed a final inspection to ensure the diesel engines were fully mission capable.	—	—
a. Conducted a PMCS.		
b. Ensured components were connected properly.		
9. Ensured maintenance forms were completed, as required.	—	—
a. Annotated any faults corrected on appropriate forms.		
b. Ensured any parts not on hand were ordered.		
c. Ensured forms were turned in to ULLS clerk.		
10. Ensured tools and equipment were properly maintained.	—	—
a. Ensured all tools were accounted for.		
b. Ensured tools and equipment were cleaned in accordance with EPA guidelines.		

**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 385-10
- AR 750-1
- AR 750-43
- DA FORM 5988-E
- TM 9-2815-219-34
- TM 9-2815-242-34

**Related**

**Perform Diagnostics on a Fuel System on a Tracked Vehicle  
091-63H-3137**

**Conditions:** In a contemporary operational environment given an applicable vehicle; general mechanic's tool kit; additional tools; test, measurement, and diagnostic equipment (TMDE); Department of the Army (DA) Form 5988-E (Equipment Inspection Maintenance Worksheet); Army regulation (AR) 385-10, AR 750-1, AR 750-43, equipment as indicated in the technical manuals; a maintenance request or equipment inspection worksheet describing equipment malfunctions; technical manual (TM) 9-2815-219-34; TM 9-2815-220-24; TM 9-2815-242-34, and other applicable publications.

**Standards:** Performed diagnostics on a tracked vehicle fuel system in accordance with the applicable technical publication procedures and specifications (see maintenance allocation chart for exact procedures authorized for each military occupation specialty (MOS) and skill level (SL)). When this task was completed, the vehicle or equipment was fully mission capable or required maintenance actions by other than 63H personnel had been identified.

**Performance Steps**

1. Review work request. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Ensure fault is annotated on DA Form 5988-E.
  - b. Ensure work is within shop capabilities.
  - c. Ensure forms are in accordance with applicable publications.
2. Ensure applicable TM is available. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Identify correct publication for specified job.
  - b. Follow steps outlined in TM.
3. Ensure proper tools are available to inspect, replace and test the fuel system. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Use tools designed for specified job.
  - b. Ensure tools are serviceable.
4. Perform initial inspection. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Follow steps outlined in TM.
  - b. Annotate any deficiencies on appropriate forms.
  - c. Annotate shortcomings that are beyond level of repair.
5. Diagnose fuel system faults and determine maintenance actions to be performed. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Conduct function test of fuel system.
  - b. Ensure lines are connected properly.
  - c. Ensure proper safety equipment is used.
6. Identify replacement parts and requisitions, if required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Replace any unserviceable part that is on hand.
  - b. Order any part that is not on hand on appropriate form.
7. Ensure all safety precautions and procedures were followed. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Follow prescribed safety procedures outlined in TM.
  - b. Follow prescribed safety procedures outlined in unit standing operating procedure (SOP).



**Performance Steps**

8. Perform a final inspection to ensure the fuel system is fully mission capable. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Conduct a preventive maintenance checks and services (PMCS).
  - b. Operate vehicle according to steps outlined in TM.
  - c. Ensure all lines are connected properly.
9. Ensure maintenance forms are completed, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Ensure all faults are annotated accordingly.
  - b. Ensure forms are turned in to Unit Level Logistics System (ULLS) clerk.
10. Ensure tools and equipment are properly maintained. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Ensure all tools are accounted for.
  - b. Ensure tools and equipment are cleaned.

**Evaluation Preparation:** None

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Reviewed work request.	_____	_____
a. Ensured fault was annotated on DA Form 5988-E.		
b. Ensured work was within shop capabilities.		
c. Ensured forms were in accordance with applicable publications.		
2. Ensured applicable TM is available.	_____	_____
a. Identified correct publication for specified job.		
b. Followed steps outlined in TM.		
3. Ensured proper tools were available to inspect, replace, and test the fuel system.	_____	_____
a. Used tools designed for specified job.		
b. Ensured tools were serviceable.		
4. Performed initial inspection.	_____	_____
a. Followed steps outlined in TM.		
b. Annotated any deficiencies on appropriate forms.		
c. Annotated shortcomings that are beyond level of repair.		
5. Diagnosed fuel system faults and determined maintenance actions to be performed.	_____	_____
a. Conducted function test of fuel system.		
b. Ensured lines were connected properly.		
c. Ensured proper safety equipment was used.		
6. Identified replacement parts and requisition, if required.	_____	_____
a. Replaced any unserviceable part that was on hand.		
b. Ordered any part that was not on hand on appropriate form.		
7. Ensured all safety precautions and procedures were followed.	_____	_____
a. Followed prescribed safety procedures outlined in TM.		
b. Followed prescribed safety procedures outlined in unit SOP.		
8. Performed a final inspection to ensure the fuel system was fully mission capable.	_____	_____
a. Conducted a PMCS.		
b. Operated vehicle according to steps outlined in technical manual.		
c. Ensured all lines were connected properly.		

**Performance Measures**

**GO**      **NO-GO**

- 9. Ensured maintenance forms were completed, as required.
  - a. Ensured all faults were annotated accordingly.
  - b. Ensured forms were turned in to ULLS clerk.
  
- 10. Ensured tools and equipment were properly maintained.
  - a. Ensured all tools were accounted for.
  - b. Ensured tools and equipment were cleaned.

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**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 385-10
- AR 750-1
- AR 750-43
- DA FORM 5988-E
- TM 9-2815-219-34
- TM 9-2815-220-24
- TM 9-2815-242-34

**Related**

**Perform Diagnostics on Steering/ Brake System on a Tracked Vehicle**  
**091-63H-3138**

**Conditions:** In a contemporary operational environment given a maintenance request or equipment inspection worksheet describing equipment malfunctions; Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), Army regulation (AR) 385-10, AR 750-1, AR 750-43, technical manual (TM) 9-2350-256-34, required tools; test equipment and vehicle; and applicable references.

**Standards:** Performed diagnostics on a tracked vehicle steering and brake system in accordance with applicable TM procedures and specifications. When this task was completed the equipment or end item was fully mission capable, or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Review work request. (AR 385-10, AR 750-1, AR 750-43, TM 9-2350-256-34)
  - a. Ensure fault is annotated on appropriate form.
  - b. Ensure work is within shop capabilities.
2. Perform initial inspection. (AR 385-10, AR 750-1, AR 750-43, TM 9-2350-256-34)
  - a. Conduct a preventive maintenance checks and services (PMCS).
  - b. Check vehicle for any leaks.
  - c. Annotate any deficiencies on DA Form 2404 and DA Form 5988-E.
  - d. Determine maintenance action to be performed.
3. Ensure applicable publication is available. (AR 385-10, AR 750-1, AR 750-43, TM 9-2350-256-34)
  - a. Ensure correct TM is available for the job.
  - b. Follow steps outlined in TM.
4. Ensure proper tools are available for the job. (AR 385-10, AR 750-1, AR 750-43, TM 9-2350-256-34)
  - a. Use tools designed for specified job.
  - b. Ensure tools are serviceable.
5. Ensure parts are identified and requisitioned, as required. (AR 385-10, AR 750-1, AR 750-43, TM 9-2350-256-34)
  - a. Annotate any parts replaced on applicable forms.
  - b. Order any parts that are not available on appropriate forms.
6. Ensure all safety precautions are followed. (AR 385-10, AR 750-1, AR 750-43, TM 9-2350-256-34)
  - a. Follow prescribed safety guidelines outlined in TM.
  - b. Follow safety guidelines outlined in unit standing operating procedure (SOP).
7. Diagnose steering/brake system faults and determine maintenance action to be performed. (AR 385-10, AR 750-1, AR 750-43, TM 9-2350-256-34)
  - a. Follow steps outlined in TM.
  - b. Conduct a functions test on specified job.
  - c. Ensure all lines are connected properly.
  - d. Perform a final inspection.

**Performance Steps**

8. Ensure maintenance forms are completed, as required. (AR 385-10, AR 750-1, AR 750-43, TM 9-2350-256-34)
  - a. Ensure all faults are annotated accordingly.
  - b. Ensure forms are turned in to Unit Level Logistics System (ULLS) clerk.
9. Maintain tools and equipment. (AR 385-10, AR 750-1, AR 750-43, TM 9-2350-256-34)
  - a. Ensure all tools are accounted for.
  - b. Ensure tools and equipment are cleaned in accordance with Environmental Protection Agency (EPA) guidelines.

**Evaluation Preparation: None**

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request. <ol style="list-style-type: none"> <li>a. Ensured fault was annotated on appropriate form.</li> <li>b. Ensured work was within shop capabilities.</li> </ol>	—	—
2. Performed initial inspection. <ol style="list-style-type: none"> <li>a. Conducted a PMCS.</li> <li>b. Checked vehicle for any leaks.</li> <li>c. Annotated any deficiencies on DA Form 2404 and DA Form 5988-E.</li> <li>d. Determined maintenance action to be performed.</li> </ol>	—	—
3. Ensured applicable publications were available. <ol style="list-style-type: none"> <li>a. Ensured correct TM was available for the job.</li> <li>b. Followed steps outlined in TM.</li> </ol>	—	—
4. Ensured proper tools were available to perform this task. <ol style="list-style-type: none"> <li>a. Used tools designed for specified job.</li> <li>b. Ensured tools were serviceable.</li> </ol>	—	—
5. Ensured parts were identified and requisitioned, as required. <ol style="list-style-type: none"> <li>a. Annotated any parts replaced on applicable forms.</li> <li>b. Ordered any parts that were not available on appropriate forms.</li> </ol>	—	—
6. Ensured all safety precautions were followed. <ol style="list-style-type: none"> <li>a. Followed prescribed safety guidelines outlined in TM.</li> <li>b. Followed safety guidelines outlined in unit SOP.</li> </ol>	—	—
7. Diagnosed steering/brake system faults and determined maintenance actions to be performed. <ol style="list-style-type: none"> <li>a. Followed steps outlined in TM.</li> <li>b. Conducted a functions test on specified job.</li> <li>c. Ensured all lines were connected properly.</li> <li>d. Performed a final inspection.</li> </ol>	—	—
8. Ensured maintenance forms were completed, as required. <ol style="list-style-type: none"> <li>a. Ensured all faults were annotated accordingly.</li> <li>b. Ensured forms were turned in to ULLS clerk.</li> </ol>	—	—
9. Maintained tools and equipment. <ol style="list-style-type: none"> <li>a. Ensured all tools were accounted for.</li> <li>b. Ensured tools and equipment were cleaned in accordance with EPA guidelines.</li> </ol>	—	—

**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 385-10  
AR 750-1  
AR 750-43  
DA FORM 2404  
DA FORM 5988-E  
TM 9-2350-256-34

**Related**

## Perform Diagnostics on the Auxiliary Power Unit (APU) on a Tracked Vehicle

091-63H-3139

**Conditions:** In a contemporary operational environment given required equipment, applicable tracked vehicle, general mechanic's tool kit; applicable special tools, test, measurement, and diagnostic equipment (TMDE), required safety equipment, and applicable forms and references including Army regulation (AR) 385-10, AR 750-1, AR 750-43, Department of the Army (DA) Form 5988-E (Equipment Inspection Maintenance Worksheet), DA Pamphlet 750-8, and technical manual (TM) 9-2350-256-10.

**Standards:** Performed diagnostics on an M88 series tracked vehicle Auxiliary Power Unit (APU) in accordance with the applicable technical publications procedures and specifications. When this task was completed, the vehicle was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

### Performance Steps

1. Select and use applicable publications. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, DA PAM 750-8, TM 9-2350-256-10)
  - a. Identify which TM to be used.
  - b. Follow steps outlined in TM.
2. Select and use correct tools and TMDE. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, DA PAM 750-8, TM 9-2350-256-10)
  - a. Ensure all tools are available.
  - b. Ensure tools are used for specified job.
3. Follow prescribed safety procedures. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, DA PAM 750-8, TM 9-2350-256-10)
  - a. Follow safety guidelines in TM.
  - b. Follow safety guidelines outlined in unit standing operating procedure (SOP).
4. Practice maintenance discipline. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, DA PAM 750-8, TM 9-2350-256-10)
  - a. Follow guidelines outlined in motor pool.
  - b. Ensure proper safety equipment is used.
5. Inspect APU. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, DA PAM 750-8, TM 9-2350-256-10)
  - a. Ensure there are not leaks.
  - b. Ensure all lines are connected.
  - c. Ensure all bolts are present.
6. Perform diagnostic procedures on APU. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, DA PAM 750-8, TM 9-2350-256-10)
  - a. Follow steps outlined in TM.
  - b. Conduct a functions test on APU.
  - c. Annotate any deficiencies on applicable forms.
  - d. Ensure APU is not ran more than one hour.
7. Service APU. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, DA PAM 750-8, TM 9-2350-256-10)
  - a. Conduct a preventive maintenance checks and services (PMCS).
  - b. Replace any worn parts that are on hand.
  - c. Adjust APU components.
  - d. Tag and label any part for turn in.

**Performance Steps**

8. Maintain tools and equipment. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, DA PAM 750-8, TM 9-2350-256-10)
  - a. Ensure all tools are accounted for.
  - b. Ensure tools and equipment are cleaned.
9. Complete DA Form 5988-E, as required. (AR 385-10, AR 750-1, AR 750-43, DA FORM 5988-E, DA PAM 750-8, TM 9-2350-256-10)
  - a. Annotate any new deficiencies on appropriate form.
  - b. Ensure parts not on hand are ordered.
  - c. Ensure paperwork is turned in to Unit Level Logistics System (ULLS) clerk.

**Evaluation Preparation: None**

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable publications.	_____	_____
a. Identified which TM was used.		
b. Followed steps outlined in TM.		
2. Selected and used correct tools and TMDE.	_____	_____
a. Ensured all tools were available.		
b. Ensured tools were used for specified job.		
3. Followed prescribed safety procedures.	_____	_____
a. Followed safety guidelines outlined in TM.		
b. Followed safety guidelines outlined in unit SOP.		
4. Practiced maintenance discipline.	_____	_____
a. Followed guidelines outlined in motor pool.		
b. Ensured proper safety equipment was used.		
5. Inspected APU.	_____	_____
a. Ensured there were not leaks.		
b. Ensured all lines were connected.		
c. Ensured all bolts were present.		
6. Performed diagnostic procedures on APU.	_____	_____
a. Followed steps outlined in TM.		
b. Conducted a functions test on APU.		
c. Annotated any deficiencies on applicable forms.		
d. Ensured APU was not run more than one hour.		
7. Serviced APU.	_____	_____
a. Conducted a PMCS.		
b. Replaced any worn parts that were on hand.		
c. Adjusted APU components.		
d. Tagged and labeled any part for turn-in.		
8. Maintained tools and equipment.	_____	_____
a. Ensured all tools were accounted for.		
b. Ensured tools and equipment were cleaned.		
9. Completed DA Form 5988-E, as required.	_____	_____
a. Annotated any new deficiencies on appropriate form.		
b. Ensured parts not on hand were ordered.		
c. Ensured paperwork was turned in to ULLS clerk.		

**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 385-10  
AR 750-1  
AR 750-43  
DA FORM 5988-E  
DA PAM 750-8  
TM 9-2350-256-10

**Related**



**Perform Engine Tune-up Procedures on Diesel Engine  
091-63H-3140**

**Conditions:** In a contemporary operational environment given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), technical manual (TM) 9-2350-261-20-2, TM 9-2815-219-34, TM 9-2815-220-24, TM 9-2815-242-34, and other applicable references.

**Standards:** Tuned up the engine assembly in accordance with applicable technical manual procedures and specifications. When this task was completed, the equipment or end item was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

**Performance Steps**

1. Review work request. (TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Ensure fault is annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with applicable publications.
2. Perform initial inspection. (TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Conduct a preventive maintenance checks and services (PMCS).
  - b. Check vehicle for any leaks.
  - c. Ensure applicable publication is used.
  - d. Determine maintenance action to be performed.
  - e. Ensure task is within shop capabilities.
3. Ensure proper tools are available to perform this task. (TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Ensure applicable tools are in basic issue items (BII).
  - b. Ensure tools are serviceable.
4. Ensure parts are identified and requisitioned, as required. (TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Annotate any parts replaced on applicable forms.
  - b. Order any parts that are not available on hand on appropriate forms.
  - c. Tag and label any unserviceable part for turn-in.
5. Ensure all safety precautions are followed. (TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Follow prescribed safety guidelines in TM.
  - b. Follow safety guidelines outlined in unit standing operating procedure (SOP).
6. Perform a final inspection. (TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Ensure task is performed to acceptable standards.
  - b. Ensure all lines are connected properly.
  - c. Ensure there are no visible leaks.
7. Maintain tools and equipment. (TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Ensure all tools are accounted for.
  - b. Ensure tools and equipment are cleaned in accordance with Environmental Protection Agency (EPA) guidelines.
8. Complete DA Form 5988-E, as required. (TM 9-2815-219-34, TM 9-2815-242-34)
  - a. Annotate any new deficiencies on appropriate forms.
  - b. Ensure paperwork is turned in to Unit Level Logistics System (ULLS) clerk.

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
a. Ensured fault is annotated on DA Form 2404 and DA Form 5988-E.		
b. Ensured paperwork was in accordance with applicable publications.		
2. Performed initial inspection.	—	—
a. Conducted a PMCS.		
b. Checked vehicle for any leaks.		
c. Ensured applicable publication was used.		
d. Determined maintenance action to be performed.		
e. Ensured task was within shop capabilities.		
3. Ensured proper tools were available to perform this task.	—	—
a. Ensured applicable tools were in BII.		
b. Ensured tools were serviceable.		
4. Ensured parts were identified and requisitioned, as required.	—	—
a. Annotated any parts replaced on applicable forms.		
b. Ordered any parts that were not available on hand on appropriate forms.		
c. Tagged and labeled any unserviceable part for turn-in.		
5. Ensured all safety precautions were followed.	—	—
a. Followed prescribed safety guidelines in TM.		
b. Followed safety guidelines outlined in unit SOP.		
6. Performed a final inspection.	—	—
a. Ensured task was performed to acceptable standards.		
b. Ensured all lines were connected properly.		
c. Ensured there were no visible leaks.		
7. Maintained tools and equipment.	—	—
a. Ensured all tools were accounted for.		
b. Ensured tools and equipment were cleaned in accordance with EPA guidelines.		
8. Completed DA Form 5988-E, as required.	—	—
a. Annotated any new deficiencies on appropriate forms.		
b. Ensured paperwork was turned in to ULLS clerk.		

**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>
DA FORM 2404	
DA FORM 5988-E	
TM 9-2350-261-20-2	
TM 9-2815-219-34	
TM 9-2815-220-24	
TM 9-2815-242-34	

## Perform Recovery Operation on a Tracked Vehicle

**091-63H-3141**

**Conditions:** In a contemporary operational environment given the applicable vehicle; applicable mechanic's tool kit; additional tools; test, measurement, and diagnostic equipment (TMDE); and equipment as indicated in the technical manuals (TMs); a maintenance request or equipment inspection worksheet describing equipment malfunctions; Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection Maintenance Worksheet), and applicable technical publications including TM 9-2350-256-34 and TM 9-2350-275-BD.

**Standards:** Performed recovery operation in accordance with applicable references. When this task was completed, the equipment or end item was fully mission capable or required maintenance actions to be performed by other than 63H personnel had been identified.

### Performance Steps

1. Review work request/ commander's directive. (FM 4-0, FM 4-30.31, LO 9-2350-256-12, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-34, TM 9-2350-292-10, TM 9-4020-200-10)
  - a. Ensure correct vehicle is annotated on DA Form 2404 and DA Form 5988-E.
  - b. Ensure paperwork is in accordance with applicable publications.
  - c. Ensure task is within shop capabilities.
2. Ensure applicable technical publications are available. (FM 4-0, FM 4-30.31, LO 9-2350-256-12, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-34, TM 9-2350-292-10, TM 9-4020-200-10)
  - a. Ensure appropriate TM is available.
  - b. Follow steps outlined in TM.
3. Ensure proper tools, TMDE, and equipment are available to perform recovery operation. (FM 4-0, FM 4-30.31, LO 9-2350-256-12, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-34, TM 9-2350-292-10, TM 9-4020-200-10)
  - a. Perform initial inspection for specified tools for recovery mission.
  - b. Ensure tool are serviceable.
  - c. Use proper tools designed for recovery mission.
4. Assign personnel to assist in recovery operation. (FM 4-0, FM 4-30.31, LO 9-2350-256-12, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-34, TM 9-2350-292-10, TM 9-4020-200-10)
  - a. Ensure enough qualified personnel are available.
  - b. Ensure all personnel are aware of safety guidelines.
5. Ensure all safety precautions and procedures are followed. (FM 4-0, FM 4-30.31, LO 9-2350-256-12, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-34, TM 9-2350-292-10, TM 9-4020-200-10)
  - a. Follow safety guidelines outlined in TM.
  - b. Ensure safety equipment is available.
6. Determine method of rigging. (FM 4-0, FM 4-30.31, LO 9-2350-256-12, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-34, TM 9-2350-292-10, TM 9-4020-200-10)
  - a. Follow steps outlined in TM.
  - b. Ensure parking brake is not engaged.
  - c. Connect emergency equipment and tow lights.
  - d. Connect towed vehicle.

**Performance Steps**

7. Establish communication between vehicles. (FM 4-0, FM 4-30.31, LO 9-2350-256-12, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-34, TM 9-2350-292-10, TM 9-4020-200-10)
  - a. Observe ground guide while operating recovery equipment.
  - b. Ensure proper speed limit is followed.
  - c. Tow vehicle to predetermined site.
8. Disconnect vehicle. (FM 4-0, FM 4-30.31, LO 9-2350-256-12, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-34, TM 9-2350-292-10, TM 9-4020-200-10)
  - a. Ensure parking brake is engage.
  - b. Disconnect emergency equipment and tow lights.
  - c. Store tools and equipment.
  - d. Conduct an after-operation preventive maintenance checks and services (PMCS).
9. Complete DA Form 5988-E, if required. (FM 4-0, FM 4-30.31, LO 9-2350-256-12, TM 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-20-2, TM 9-2350-256-34, TM 9-2350-292-10, TM 9-4020-200-10)
  - a. Annotate any deficiencies on appropriate paperwork, if needed.
  - b. Ensure paperwork is turned in to Unit Level Logistics System (ULLS) clerk.

**Evaluation Preparation:** None

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request/commander's directive.	_____	_____
a. Ensured correct vehicle was annotated on DA Form 2404 and DA Form 5988-E.		
b. Ensured paperwork was in accordance with applicable publications.		
c. Ensured task was within recovery capabilities.		
2. Ensured applicable technical publications are available.	_____	_____
a. Ensured appropriate TM was available.		
b. Followed steps outlined in TM.		
3. Ensured proper tools, TMDE, and equipment were available to perform recovery operation.	_____	_____
a. Performed initial inspection for specified tools for recovery mission.		
b. Ensured tools were serviceable.		
c. Used proper tools designed for recovery mission.		
4. Assigned personnel to assist in recovery operation.	_____	_____
a. Ensured enough qualified personnel were available.		
b. Ensured all personnel were aware of safety guidelines.		
5. Ensured all safety precautions and procedures were followed.	_____	_____
a. Followed safety guidelines outlined in TM.		
b. Ensured safety equipment was available.		
6. Determined method of rigging.	_____	_____
a. Followed steps outlined in TM.		
b. Ensured parking brake was not engaged.		
c. Connected emergency equipment and tow lights.		
d. Connected towed vehicle.		

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
7. Established communications between vehicles.	—	—
a. Observed ground guide while operating recovery equipment.		
b. Ensured proper speed limit is followed.		
c. Towed vehicle to predetermined site.		
8. Disconnected vehicle	—	—
a. Ensured parking brake is engaged.		
b. Disconnected emergency equipment and tow lights.		
c. Stored tools and equipment.		
d. Conducted an after-operations PMCS.		
9. Completed DA Form 5988-E, if required.	—	—
a. Annotated any deficiencies on appropriate paperwork, if needed.		
b. Ensured paperwork was turned in to ULLS clerk.		

**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**

- DA FORM 2404
- DA FORM 5988-E
- FM 4-0
- FM 4-30.31
- LO 9-2350-256-12
- TM 9-2350-256-10
- TM 9-2350-256-20-1
- TM 9-2350-256-20-2
- TM 9-2350-256-34
- TM 9-2350-292-10
- TM 9-4020-200-10

**Related**

Skill Level 4

Subject Area 6: Common Logistic Management Tasks (SL 4)

**Supervise Platoon/Section Administrative Procedures**

**091-CLT-4002**

**Conditions:** In a contemporary operational environment, given Army regulation (AR) 25-400-2, AR 600-8-2, AR 614-200, AR 635-200, situation(s) requiring platoon/section administrative procedures supervision and applicable forms, records, and publications.

**Standards:** Supervise platoon or section administrative procedures in accordance with applicable references.

**Performance Steps**

1. Establish files using the Army Records Information Management System (ARIMS).
  - a. Prepare file folders and guides
  - b. Arrange file folders and guides.
  - c. Prepare file drawer labels.
  - d. Prepare a list of file numbers
2. Process a recommendation for award.
3. Process and update a flag on records.
4. Verify the accuracy of Suspension of Favorable Action Report.
5. Process and update a bar to reenlistment.
6. Process a chapter action.
  - a. Select appropriate type of chapter action and identify separation guidelines.
  - b. Initiate and follow up on the chapter action.
7. Process a recommendation for advancement/promotion.
8. Verify accuracy of Enlisted Promotion Report (AAC-C01).
9. Assist a subordinate noncommissioned officer (NCO) who had received notice of selection to be released under the Qualitative Management Program (QMP).

**Performance Measures**

	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
1. Established files using the Army Records Information Management System (ARIMS). <ol style="list-style-type: none"> <li>a. Prepared file folders and guides.</li> <li>b. Arranged file folders and guides.</li> <li>c. Prepared file drawer labels.</li> <li>d. Prepared a list of file numbers.</li> </ol>	—	—
2. Processed a recommendation for award.	—	—
3. Processed and updated a flag on records.	—	—
4. Verified the accuracy of Suspension of Favorable Action Report.	—	—
5. Processed and updated a bar to reenlistment.	—	—

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
6. Processed a chapter action.	—	—
a. Selected appropriate type of chapter action and identified separation guidelines.		
b. Initiated and followed up on the chapter action.		
7. Processed a recommendation for advancement/promotion.	—	—
8. Verified accuracy of Enlisted Promotion Report (AAC-C01).	—	—
9. Assisted a subordinate noncommissioned officer (NCO) who had received notice of selection to be released under the Qualitative Management Program (QMP).	—	—

**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 600-8-2  
 AR 614-200  
 AR 635-200

**Related**

**Manage Combat Stress**  
**091-CLT-4003**

**Conditions:** In a contemporary operational environment, given a situation requiring stress management and field manual (FM) 22-51.

**Standards:** Manage combat stress in accordance with applicable reference.

**Performance Steps**

1. Identify sources of combat stress.
2. Identify the signs and classifications of battle fatigue.
3. Identify signs of stress in self, others, and the unit.
4. Take appropriate steps to reduce and/or prevent stress.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Identified sources of combat stress.	—	—
2. Identified the signs and classifications of battle fatigue.	—	—
3. Identified signs of stress in self, others, and the unit.	—	—
4. Took appropriate steps to reduce and/or prevent stress.	—	—

**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 22-51

**Related**



**Manage Battlefield Maintenance Support**  
**091-CLT-4025**

**Conditions:** In a contemporary operational environment, given field manual (FM) 4-30.3, an operation order (OPORD)/maintenance situation, maintenance personnel, equipment, and applicable references.

**Standards:** Manage battlefield maintenance support in accordance with cited reference.

**Performance Steps**

1. Assess the combat situation and organized and prioritized support based on the type of operation.
  - a. Offensive operation.
  - b. Defensive operation.
2. Plan for and execute appropriate maintenance support.
  - a. Identify requirements.
  - b. Identify available resources.
    - (1) Personnel and skills.
    - (2) Publications.
    - (3) Time.
    - (4) Facilities.
    - (5) Test, measurement, and diagnostic equipment (TMDE) and tools.
    - (6) Parts.
  - c. Manage resources for maximum return, with priority on the following:
    - (1) Maintenance support forward.
    - (2) Commander's guidance.
    - (3) Battle damage repair.
    - (4) Controlled exchange.
    - (5) Cannibalization.
    - (6) Evacuation.
    - (7) Recovery.
3. Follow priorities for repair of battle damaged systems.
  - a. Most essential for completion of the immediate mission.
  - b. Least amount of time to repair.
  - c. Repairable, but not in time to continue the immediate mission.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Assessed the combat situation and organized and prioritized support based on the type of operation. <ol style="list-style-type: none"> <li>a. Offensive operation.</li> <li>b. Defensive operation.</li> </ol>	—	—
2. Planned for and executed appropriate maintenance support. <ol style="list-style-type: none"> <li>a. Identified requirements.</li> <li>b. Identified available resources.               <ol style="list-style-type: none"> <li>(1) Personnel and skills.</li> <li>(2) Publications.</li> <li>(3) Time.</li> <li>(4) Facilities.</li> <li>(5) Test, measurement, and diagnostic equipment (TMDE) and tools.</li> <li>(6) Parts.</li> </ol> </li> </ol>	—	—

**Performance Measures**

**GO**    **NO-GO**

- c. Managed resources for maximum return, with priority on the following:
  - (1) Maintenance support forward.
  - (2) Commander's guidance.
  - (3) Battle damage repair.
  - (4) Controlled exchange.
  - (5) Cannibalization.
  - (6) Evacuation.
  - (7) Recovery.

- 3. Followed priorities for repair of battle damaged systems.                                      
  - a. Most essential for completion of the immediate mission.
  - b. Least amount of time to repair.
  - c. Reparable, but not in time to continue the immediate mission.
  - d. Damaged beyond repair candidate for cannibalization.

**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

**Related**

**Perform Senior Rater Responsibilities for a Maintenance Section  
091-CLT-4001**

**Conditions:** In a contemporary operational environment, given a noncommissioned officer evaluation report (NCOER) with the rater's portion completed, accompanying counseling statements, and Army regulation (AR) 623-3.

**Standards:** Perform senior rater's responsibilities in accordance with applicable references.

**Performance Steps**

1. Ensure all materials and references were available.
2. Review quarterly counseling that supported the NCOER.
3. Review the administrative data and rater's portions of the NCOER for accuracy and content.
4. Prepare the senior rater's portion of the NCOER.
5. Submit NCOER for review and further processing.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Ensured all materials and references were available.	—	—
2. Reviewed quarterly counseling that supported the NCOER.	—	—
3. Reviewed the administrative data and rater's portions of the NCOER for accuracy and content.	—	—
4. Prepared the senior rater's portion of the NCOER.	—	—
5. Submitted the NCOER for review and further processing.	—	—

**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 623-3

**Related**

**Coordinate Support for the Maintenance Platoon/Section  
091-CLT-4006**

**Conditions:** In a contemporary operational environment, given field manual (FM) 4-30.3, an operation order (OPORD)/maintenance situation, a maintenance platoon or section with personnel and equipment, standing operating procedure (SOP), and applicable references.

**Standards:** Coordinate support for the maintenance platoon or section in accordance with SOP and applicable references.

**Performance Steps**

1. Evaluate the tactical situation and OPORD requirements.
2. Determine support needed at each location.
3. Notify parent and support units of support requirements.
4. Follow up to ensure support had been coordinated and was being provided.
  - a. Notify appropriate parent and support units to resolve any problems.
  - b. Address problems in after action review (AAR).

**Performance Measures**

	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
1. Evaluated the tactical situation and OPORD requirements.	_____	_____
2. Determined support needed at each location.	_____	_____
3. Notified parent and supported units of support requirements.	_____	_____
4. Followed up to ensure support had been coordinated and was being provided. <ol style="list-style-type: none"> <li>a. Notified appropriate parent and supported units to resolve any problems.</li> <li>b. Addressed problems in after action review (AAR).</li> </ol>	_____	_____

**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

**Related**

**Integrate Automated Logistics Support Systems  
091-CLT-4010**

**Conditions:** In a contemporary operational environment, given a Unit Level Logistics System-Ground (ULLS-G) computer system with software and equipment data base in a unit-level maintenance shop, a Standard Army Maintenance System-1 (SAMS-1) computer system with software and database in a direct support (DS)-level maintenance shop, a Standard Army Maintenance System-2 (SAMS-2) computer system with software and data base in a support operations section, Automated Information Systems Manual (AISM) 18-L21-AHN-BUR-UM, AISM 18-L26-AHO-BUR-EM, Army regulation (AR) 710-2, Department of the Army (DA) Pamphlet 710-2-1, DA Pamphlet 750-8, and applicable publications.

**Standards:** Integrate automated logistics support systems in a maintenance shop in accordance with applicable references.

**Performance Steps**

1. Identify the architecture and interface of Army automated logistics systems.
2. Supervise ULLS-G functions in a unit level maintenance shop.
3. Supervise SAMS-1 functions in a DS level maintenance shop.
4. Supervise SAMS-2 functions in a support operations section.
5. Interface with Standard Army Retail Supply System-Objective (SARSS-O) for supply functions.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Identified the architecture and interface of Army automated logistics systems.	—	—
2. Supervised ULLS-G functions in a unit level maintenance shop.	—	—
3. Supervised SAMS-1 functions in a DS level maintenance shop.	—	—
4. Supervised SAMS-2 functions in a support operations section.	—	—
5. Interfaced with Standard Army Retail Supply System-Objective (SARSS-O) for supply functions.	—	—

**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>
AISM 18-L21-AHN-BUR-UM	
AISM 18-L26-AHO-BUR-EM	
AR 710-2	
DA PAM 710-2-1	
DA PAM 750-8	

**Plan Logistics Support for Maintenance Operations  
091-CLT-4011**

**Conditions:** In a contemporary operational environment, given field manual (FM) 4-30.3, an operation order (OPORD)/maintenance situation, maintenance personnel and equipment, and applicable references.

**Standards:** Plan logistics support for maintenance operations in accordance with applicable references.

**Performance Steps**

1. Assess the combat situation.
2. Determine support needed.
  - a. People (skills and numbers).
  - b. Equipment (transportation, tools, test, measurement, and diagnostic equipment [TMDE], and communications).
  - c. Supplies (components, assemblies, and repair parts).
3. Organize resources to provide needed support.
4. Follow these planning considerations:
  - a. Number and type of units supported.
  - b. Stock levels for repair parts.
  - c. Forward displacement of maintenance support teams and maintenance collection points.
  - d. Channels and procedures for recovery, collection, evacuation, and disposition of captured or abandoned materiel.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
1. Assessed the combat situation.	_____	_____
2. Determined support needed. <ol style="list-style-type: none"> <li>a. People (skills and numbers).</li> <li>b. Equipment (transportation, tools, test, measurement, and diagnostic equipment [TMDE], and communications).</li> <li>c. Supplies (components, assemblies, and repair parts).</li> </ol>	_____	_____
3. Organized resources to provide needed support.	_____	_____
4. Followed these planning considerations: <ol style="list-style-type: none"> <li>a. Number and type of units supported.</li> <li>b. Stock levels for repair parts.</li> <li>c. Forward displacement of maintenance support teams and maintenance collection points.</li> <li>d. Channels and procedures for recovery, collection, evacuation, and disposition of captured or abandoned materiel.</li> </ol>	_____	_____

**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

**Related**

**Prepare Standing Operating Procedures for Maintenance Operations  
091-CLT-4021**

**Conditions:** In a contemporary operational environment, given field manual (FM) 4-30.3, higher headquarters standing operating procedure (SOP), and commander's guidance.

**Standards:** Prepare a maintenance shop internal or external SOP for the commander's review, comment, and approval in accordance with cited references.

**Performance Steps**

1. Ensure applicable publication was available.
2. Prepare a maintenance shop internal or external SOP.
3. Ensure unit policies and commander's guidance were followed.
4. Ensure shop operation policies were adequately addressed.
5. Update the shop SOP, as required.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Ensured applicable publication was available.	—	—
2. Prepared a maintenance shop internal or external SOP.	—	—
3. Ensured unit policies and commander's guidance were followed.	—	—
4. Ensured shop operation policies were adequately addressed.	—	—
5. Updated the shop SOP, as required.	—	—

**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

**Related**

**Supervise the Deployment of Company Maintenance Team/Recovery Support Team/  
Maintenance Support Team**

**091-CLT-4022**

**Conditions:** In a contemporary operational environment, given field manual (FM) 1-02, FM 3-34.170, FM 4-30.3, a request for maintenance support/maintenance situation, map, operational overlay, grid coordinates of destination, vehicle(s), equipment, maintenance personnel, and applicable references.

**Standards:** Supervise the deployment of company maintenance team and recovery support teams in accordance with the maintenance situation or request for maintenance support and cited reference.

**Performance Steps**

1. Review the request for maintenance support or maintenance situation.
2. Ensure personnel and equipment were available to perform the mission.
3. Ensure resources for the company maintenance team, recovery support team, and/or maintenance support team, including personnel with applicable MOS, vehicles, tools, test equipment, publications, repair parts, time, and facilities were appropriately identified.
4. Ensure requirements for defending the teams had been properly determined and arranged.
5. Ensure team leaders were briefed on the mission.
  - a. Review the operational overlay.
  - b. Conduct a map reconnaissance of the route and destination.
6. Ensure the company maintenance team, recovery support team, and/or maintenance support team was deployed.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Reviewed the request for maintenance support or maintenance situation.	—	—
2. Ensured personnel and equipment were available to perform the mission.	—	—
3. Ensured resources for the company maintenance team, recovery support team, and/or maintenance support team, including personnel with applicable MOS, vehicles, tools, test equipment, publications, repair parts, time, and facilities were appropriately identified.	—	—
4. Ensured requirements for defending the teams had been properly determined and arranged.	—	—
5. Ensured team leaders were briefed on the mission. <ol style="list-style-type: none"> <li>a. Reviewed the operational overlay.</li> <li>b. Conducted a map reconnaissance of the route and destination.</li> </ol>	—	—
6. Ensured the company maintenance team, recovery support team, and/or maintenance support team were deployed.	—	—

**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 1-02  
FM 3-34.170  
FM 4-30.3

**Related**

**Conduct a Route Reconnaissance for a Maintenance Mission  
091-CLT-4023**

**Conditions:** In a contemporary operational environment, given field manual (FM) 3-34.170, FM 4-30.3, a maintenance situation/operation order (OPORD), operational overlay, grid coordinates for a proposed route, map, vehicle with personnel, and applicable references.

**Standards:** Conduct a route reconnaissance for a given route identifying distances/times, problem areas along the route, possible bypasses or alternate routes, and prepared strip maps in accordance with the maintenance situation/OPORD and applicable references.

**Performance Steps**

1. Ensure necessary equipment and publications were available.
2. Determine the route to be used for the maintenance mission.
3. Perform a map reconnaissance of the route.
4. Contact units along the route and coordinated passage.
5. Select personnel to conduct the reconnaissance.
6. Conduct a reconnaissance of the route by identifying the following key features.
  - a. Potential problem areas (that is, possible enemy contact, trafficability, and so forth).
  - b. Possible bypasses and alternate routes.
7. Record information on a strip map for use by the maintenance team.
8. Advise the commander or staff officer on use of the route for maintenance missions.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Ensured necessary equipment and publications were available.	—	—
2. Determined the route to be used for the maintenance mission.	—	—
3. Performed a map reconnaissance of the route.	—	—
4. Contacted units along the route and coordinated passage.	—	—
5. Selected personnel to conduct the reconnaissance.	—	—
6. Conducted a reconnaissance of the route by identifying the following key features. <ol style="list-style-type: none"> <li>a. Potential problem areas (that is, possible enemy contact, trafficability, and so forth).</li> <li>b. Possible bypasses and alternate routes.</li> </ol>	—	—
7. Recorded information on a strip map for use by the maintenance team.	—	—
8. Advised the commander or staff officer on use of the route for maintenance missions.	—	—

**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 3-34.170

FM 4-30.3

**Related**

**Conduct an Area Reconnaissance for a Maintenance Mission  
091-CLT-4024**

**Conditions:** In a contemporary operational environment, given field manual (FM) 3-34.170, FM 4-30.3, a maintenance situation/operation order (OPORD), operational overlay, grid coordinates for a proposed occupation area, map, vehicle with personnel, and applicable references.

**Standards:** Perform an area reconnaissance, selecting the most appropriate location to establish a maintenance site in accordance with the maintenance situation or OPORD and cited reference.

**Performance Steps**

1. Ensure necessary equipment and publications were available.
2. Perform a map reconnaissance of the area.
3. Select personnel to conduct the reconnaissance.
4. Conduct a reconnaissance of the area to determine suitability for maintenance operations, accessibility in and out of the site, defensible, and actions required for the safety of personnel and equipment.
5. Advise the commander or staff officer on occupying the area of operations based upon the reconnaissance.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured necessary equipment and publications were available.	—	—
2. Performed a map reconnaissance of the area.	—	—
3. Selected personnel to conduct the reconnaissance.	—	—
4. Conducted a reconnaissance of the area to determine suitability for maintenance operations, accessibility in and out of the site, defensible, and actions required for the safety of personnel and equipment.	—	—
5. Advised the commander or staff officer on occupying the area of operations based upon the reconnaissance.	—	—

**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 3-34.170  
FM 4-30.3

**Related**

**Perform Support Operations NCO Duties  
091-CLT-4026**

**Conditions:** In a contemporary operational environment, given field manual (FM) 4-30.3, FM 100-16, a position as a support operations maintenance noncommissioned officer (NCO) and applicable references.

**Standards:** Perform the duties of a support operations maintenance NCO, ensuring that the direct support (DS) maintenance mission is effectively coordinated and integrated within the battalion or support group.

**Performance Steps**

1. Provide guidance on maintenance priorities within the unit.
2. Set objectives for maintenance shop production.
3. Monitor maintenance shop workflow and status of repair part
4. Supervise, control, and direct the operation of battalion units for the below.
  - a. DS maintenance.
  - b. Evacuation.
  - c. Repair parts supply.
  - d. Repairable exchange (RX).
  - e. Technical assistance.

**Performance Measures**

	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
1. Provided guidance on maintenance priorities within the unit.	—	—
2. Set objectives for maintenance shop production.	—	—
3. Monitored maintenance shop workflow and status of repair part requisitions.	—	—
4. Supervised, controlled, and directed the operation of battalion units for the below. <ol style="list-style-type: none"> <li>a. DS maintenance.</li> <li>b. Evacuation.</li> <li>c. Repair parts supply.</li> <li>d. Repairable exchange (RX).</li> <li>e. Technical assistance.</li> </ol>	—	—

**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>
FM 4-30.3	
FM 100-16	

**Manage Maintenance Operations at a Maintenance Collection Point  
091-CLT-4027**

**Conditions:** In a contemporary operational environment, given field manual (FM) 4-30.3, an operation order (OPORD)/maintenance situation, a maintenance collection point (MCP) site, maintenance personnel and equipment, and applicable references.

**Standards:** Manage maintenance operations at an MCP in accordance with the OPORD and cited references.

**Performance Steps**

1. Set up the MCP.
2. Manage flow of equipment for repair.
  - a. Focus efforts toward repairing systems for current battle or start of next battle.
  - b. Fix 4 to 6 hour jobs at unit maintenance collection point (UMCP).
  - c. Evacuate other equipment to brigade MCP or farther rear location.
  - d. Maximize battlefield damage assessment repair (BDAR), cannibalization, and controlled exchange at central MCP.
3. Manage company maintenance teams, recovery support teams, and maintenance support teams held at MCP.
4. Manage prescribed load list (PLL) assets for forward combat units.
5. Relocate forward (as necessary) to continue fix-forward support.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Set up the MCP.	—	—
2. Managed flow of equipment for repair. <ol style="list-style-type: none"> <li>a. Focused efforts toward repairing systems for current battle or start of next battle.</li> <li>b. Fixed 4 to 6 hour jobs at unit maintenance collection point (UMCP).</li> <li>c. Evacuated other equipment to brigade MCP or farther rear location.</li> <li>d. Maximized battlefield damage assessment repair (BDAR), cannibalization, and controlled exchange at central MCP.</li> </ol>	—	—
3. Managed company maintenance teams, recovery support teams, and maintenance support teams held at MCP.	—	—
4. Managed prescribed load list (PLL) assets for forward combat units.	—	—
5. Relocated forward (as necessary) to continue fix-forward support.	—	—

**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>
FM 4-30.3	

**Provide Maintenance Support During Tactical Operations**  
**091-CLT-4028**

**Conditions:** In a contemporary operational environment, given field manual (FM) 4-30.3, an operation order (OPORD)/maintenance situation, maintenance personnel and equipment, and applicable references.

**Standards:** Provide maintenance support during tactical operations in accordance with the OPORD and cited reference.

**Performance Steps**

1. Provide maintenance support during offensive
2. Provide maintenance support during defensive
3. Provide maintenance support during retrograde operations.
4. Provide maintenance support during reconstitution operations.
5. Provide maintenance support during night operations.
6. Provide maintenance support in a chemical, biological, radiological, nuclear (CBRN) environment.
7. Provide maintenance support during stability and support operations (SASO).
  - a. Peace operations.
  - b. Humanitarian operations.
  - c. Disaster relief operations.
8. Provide maintenance support in adverse conditions.
  - a. Desert operations.
  - b. Cold weather operations.
  - c. Jungle operations.
  - d. Mountain operations.
  - e. Urban terrain operations.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Provided maintenance support during offensive operations.	—	—
2. Provided maintenance support during defensive operations.	—	—
3. Provided maintenance support during retrograde operations.	—	—
4. Provided maintenance support during reconstitution operations.	—	—
5. Provided maintenance support during night operations.	—	—
6. Provided maintenance support in a chemical, biological, radiological, nuclear (CBRN) environment.	—	—

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
7. Provided maintenance support during stability and support operations (SASO).	—	—
a. Peace operations.		
b. Humanitarian operations.		
c. Disaster relief operations.		
8. Provided maintenance support in adverse conditions.	—	—
a. Desert operations.		
b. Cold weather operations.		
c. Jungle operations.		
d. Mountain operations.		
e. Urban terrain operations.		

**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

**Related**



## CHAPTER 4

### Duty Position Tasks

#### **63H, Tracked Vehicle Mechanic, CMF63**

A. Major Duties. The tracked vehicle mechanic supervises and performs field or sustainment level maintenance on tracked vehicles and supervises related activities including fuel and electrical system repair and maintenance. Duties for 63H at each skill level are:

(1) MOS 63H10. Performs repair of diesel power plants/packs, compression ignition engine fuel systems, compression ignition air induction systems, vehicle air cooling systems, vehicle liquid cooling systems, tracked hull electrical systems, automatic transmission assemblies, tracked vehicle cross drive transmission assemblies, transfer assemblies, hydraulic brake systems, mechanical/hydraulic steering systems, tracked vehicle hydraulic assemblies, fire extinguisher/suppression systems. Repair tracked vehicle using battlefield damage assessment and repair (BDAR).

(2) MOS 63H20. Performs duties in preceding skill level, supervises lower grade Soldiers and provides technical guidance to the Soldiers in the accomplishment of their duties.

(3) MOS 63H30. Performs duties in preceding skill levels, perform and supervise fuel and electrical systems repairer duties, supervises lower grade Soldiers and provides technical guidance to the Soldiers in the accomplishment of their duties. Supervise and repair of fuel systems, fuel system components, electrical systems, electrical system components, diesel engines, cooling systems, transmissions, brake systems, steering systems, hydraulic systems, auxiliary drives, and personnel heaters. Inspects and troubleshoots tracked vehicle automotive systems and classifies equipment.

B. Physical Demands Rating and Qualifications for Initial Award of MOS. Tracked vehicle mechanic must possess the following qualifications:

(1) A physical demands rating of very heavy.

(2) A physical profile of 222232.

(3) Normal color vision.

(4) Qualifying scores.

(a) A minimum score of 90 in aptitude area MM in Armed Services Vocational Aptitude Battery (ASVAB) tests administered prior to 2 January 2002.

(b) A minimum score of (87 in aptitude area MM and 85 in aptitude area GT) or minimum score of 92 in aptitude area MM on ASVAB tests administered on and after 2 January 2002.

(5) Current equipment qualification record for all types of equipment maintained.

(6) Formal training (completion of MOS 63H course conducted under the auspices of the United States Army Ordnance Center and School [USAOC&S]) mandatory or meet the civilian acquired skill criteria per paragraph 9-5b(5)(b) of this pamphlet and in paragraph (7) below or a waiver approved by the Commandant, U.S. Army Ordnance Center and Schools.

(7) ACASP qualification criteria. Must have 2 years of experience, a combination of formal training and experience totaling 2 years in the repair and overhaul of engines, power trains, chassis components of tracked vehicles, or possess two or more Automotive Service Excellence (ASE) certifications in the automotive or truck area.

C. Additional Skill Identifiers.

- (1) A4--Automotive Electrical Systems Repair (skill level 1 and 2 only).
- (2) H8--Recovery Operations.
- (3) P5--Master Fitness Trainer.
- (4) Y2--Transition.
- (5) 1J--Operational Electronic Warfare Operations (personnel only).
- (6) 1K--Tactical Electronic Warfare Operations (personnel only).
- (7) 1X--Green Belt in Lean Six Sigma (personnel only).
- (8) 1Y--Black Belt in Lean Six Sigma (personnel only).
- (9) 1Z--Master Black Belt in Lean Six Sigma (personnel only).
- (10) 2A--Non-Lethal Weapons Trainer (personnel only).
- (11) 2B--Air Assault (personnel only).
- (12) 2S--Battle Staff Operations (skill level 3 and above).
- (13) 5W--Jumpmaster (personnel only).
- (14) 6T--Military Auditor (Reserve Component personnel only).
- (15) 8P--Competitive Parachutist (skill level 2-4 personnel only).

D. Physical Requirements and Standards of Grade. Physical requirements and SG relating to each skill level are listed in the following tables:

- (1) Table 10-63H-1. Physical requirements.
- (2) Table 10-63H-2. Standards of grade TOE/MTOE.
- (3) Table 10-63H-3. Standards of grade TDA.

**APPENDIX A**  
**HANDS-ON EVALUATION**

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

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. Figure A-1 shows a sample of a completed DA Form 5164-R.

**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.

HANDS-ON EVALUATION <small>For use of this form, see STP 11-25S14-SM-TG; the proponent agency is TRADOC</small>		DATE <b>1 May 2008</b>	
TASK TITLE <b>Perform Battlefield Damage Assessment and Repair (BDAR) on a Tracked Vehicle</b>		TASK NUMBER <b>091-63H-3125</b>	
ITEM a	PERFORMANCE STEP TITLE b	SCORE (Check One)	
		PASS c	FAIL d
1.	Select and use applicable publications	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
2.	Select and use correct tools and BDAR kit.	<input type="checkbox"/> P	<input checked="" type="checkbox"/> F
3.	Follow prescribed safety procedures	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
4.	Perform BDAR initial inspection	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
5.	Diagnose vehicle malfunction to determine maintenance action to be performed	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
6.	Verify repair parts are identified and requisitioned as required	<input checked="" type="checkbox"/> P	<input type="checkbox"/> P
7.	Complete The Army Maintenance Management System (TAMMS) forms, as required	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
8.	Maintain tools and equipment	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
EVALUATOR'S NAME SSG KENNY HALL		UNIT	
SOLDIER'S NAME PFC RON HOWARD		STATUS <input type="checkbox"/> GO <input checked="" type="checkbox"/> NO GO	

SAMPLE

DA FORM 5164-R, SEP 85 EDITION OF DEC 82 IS OBSOLETE APD V2.01

Figure A-1. Sample of a Completed DA Form 5164-R

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

DA Form 5165-R (Field Expedient Squad Book) allows the trainer to keep a record of task proficiency for a group of soldiers. Figure B-1 shows a sample of a completed DA Form 5164-R.

**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.

USER APPLICATION		FIELD EXPEDIENT SQUAD BOOK												SHEET					
STP 81-1-SMCT Soldier's Manual of Common Tasks		For use of this form, see STP 10-92A10-SM-TG; the proponent agency is TRADOC.												1 OF 3					
		SOLDIER'S NAME																	
TASK NUMBER AND TITLE	STATUS																		
	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO					
071-326-0572 Estimate Range	5-17-04		3-17-04		3-17-04		3-17-04		4-20-04										
071-329-1001 Identfy Terrain	4-8-04		4-6-04		4-15-04		4-20-04		4-6-04										
071-311-2004 Battlepost Zero	4-6-04		5-8-04						5-8-04										
878-920-1004 Armored Vehicles	5-8-04																		
071-329-1002 Grid Coordinates																			
071-329-1003 Magnetic Azimuth																			
071-311-2001 MOUNT M16A1 Rifle																			
071-503-1001 MOUNT M17-SERIES																			
031-503-1007 Dreen Taminate																			
031-503-1009 MOPP Gear																			
081-831-1031 Buddy-Aid																			
081-831-1005 Revent Shuck																			
081-831-1009 Frostbite																			
071-326-0511 Revert to F1010s																			
071-325-9407 Employ Hand Grenades																			
031-503-1003 Exchange MOPP Gear																			
081-831-1005 Revert Shuck																			

SAMPLE

DA FORM 5165-R, JUL 2005

PREVIOUS EDITIONS ARE OBSOLETE.

APD V1.00

Figure B-1. Sample of a Completed DA Form 5165-R

**GLOSSARY**

<b>AAR</b>	after action review
<b>ACCP</b>	Army Correspondence Course Program
<b>AIPD</b>	Army Institute for Professional Development
<b>AISM</b>	Automated Information Systems Manual
<b>AIT</b>	Advanced Individual Training
<b>AN</b>	annually
<b>ANCOC</b>	Advanced Noncommissioned Officer Course
<b>APD</b>	Army Publishing Directorate
<b>APU</b>	Auxiliary Power Unit
<b>AR</b>	Army regulation
<b>ARIMS</b>	Army Records Information Management System
<b>ARTEP</b>	Army Training and Evaluation Program
<b>ACASP</b>	Army Civilian Acquired Skills Program
<b>ASE</b>	Automotive Service Excellence
<b>ASI/SD</b>	Additional Skill Identifier/Special Duty
<b>ASVAB</b>	Armed Services Vocational Aptitude Battery
<b>BA</b>	biannually
<b>BDAR</b>	battlefield damage assessment and repair
<b>BII</b>	basic issue items
<b>BNCOC</b>	Basic Noncommissioned Officer Course
<b>CBRN</b>	chemical, biological, radiological, nuclear
<b>CFR</b>	Code of Federal Regulation
<b>CLT</b>	common logistic task
<b>COEI</b>	components of end item
<b>CTS</b>	contact test set
<b>CTT</b>	common task test

<b>DA</b>	Department of the Army
<b>DA PAM</b>	Department of the Army pamphlet
<b>D.C.</b>	District of Columbia
<b>DS</b>	Direct Support
<b>EPA</b>	Environmental Protection Agency
<b>ETM</b>	Electronic Technical Manual
<b>FM</b>	field manual
<b>Freq</b>	frequency
<b>HAZCOM</b>	Hazardous Communications
<b>IETM</b>	Interactive Electronic Technical Manual
<b>LO</b>	lubrication order
<b>MCP</b>	maintenance collection point
<b>METL</b>	Mission Essential Task List
<b>MHE</b>	materials handling equipment
<b>MM</b>	Mechanical Maintenance
<b>MOS</b>	military occupational specialty
<b>MOSC</b>	Military Occupational Specialty Code
<b>MSDS</b>	Material Safety Data Sheet
<b>MTOE</b>	Modified Table(s) of Organization and Equipment
<b>NA</b>	not applicable
<b>NCO</b>	noncommissioned officer
<b>NCOER</b>	Noncommissioned Officer Evaluation Report
<b>No.</b>	number
<b>OPORD</b>	operation order



<b>PAM</b>	pamphlet
<b>PLL</b>	prescribed load list
<b>PMCS</b>	preventive maintenance checks and services
<b>POL</b>	petroleum, oils, and lubricants
<b>PT</b>	Pressure Timed
<b>QMP</b>	Qualitative Management Program
<b>R</b>	reproducible
<b>RDL</b>	Reimer Digital Library
<b>RPM</b>	revolutions per minute
<b>RX</b>	reparable exchange
<b>SA</b>	semiannually
<b>SAMS</b>	Standard Army Maintenance System
<b>SAMS-1</b>	Standard Army Maintenance System-Level 1
<b>SAMS-2</b>	Standard Army Maintenance System-Level 2
<b>SARSS-O</b>	Standard Army Retail Supply System-Objective
<b>SASO</b>	stability and support operations
<b>SL</b>	skill level
<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>STP</b>	Soldier Training Publication
<b>Sust</b>	sustainment

<b>TAMMS</b>	The Army Maintenance Management System
<b>TB</b>	technical bulletin
<b>TC</b>	training circular
<b>TDA</b>	Table of Distribution and Allowances
<b>TG</b>	Trainer's Guide
<b>TM</b>	technical manual
<b>TMDE</b>	test, measurement, and diagnostic equipment
<b>Tng</b>	training
<b>TOE</b>	Table(s) of Organization and Equipment
<b>ULLS</b>	Unit Level Logistics System
<b>ULLS-G</b>	Unit Level Logistics System-Ground
<b>UMCP</b>	unit maintenance collection point
<b>US</b>	United States
<b>USAOC&amp;S</b>	United States Army Ordinance Center and School
<b>USATRADOC</b>	United States Army Training and Doctrine Command

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- TM 750-245-4 *Direct Support and General Support for Quality Control Inspector's Inspection Criteria.* 25 January 1971

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- TC 9-237 *Operator's Circular Welding Theory and Application.* 7 May 1993
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### **Related Publications**

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

### **Army Regulations**

- AR 750-10 *Army Modification Program.* 24 February 2006

**Department of Army Forms**

DA forms are available from the APD website at <https://myforms.us.army.mil/wps/myportal>.

DA FORM 2028

*Recommended Changes to Publications and Blank Forms.*

**Department of Army Pamphlets**

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DD forms are available from the OSD website at

<http://www.dtic.mil/whs/directives/infomgt/forms/formsprogram.htm>

DD FORM 1577

Unserviceable (Condemned) Tag - Materiel

DD FORM 1577-1

Unserviceable (Condemned) Label - Materiel

DD FORM 1577-2

Unserviceable (Reparable) Tag - Materiel

DD FORM 1577-3

Unserviceable (Reparable) Label – Materiel

**Technical Manuals**

TM 9-2320-272-10

*Operator's Manual for Truck, 5-Ton, 6X6, M939, M939A1, And M939A2 Series Trucks (Diesel), Truck, Cargo: 5-Ton, 6X6 Dropside, M923 (2320-01-050-2084) (EIC: BRY); M923A1 (2320-01-206-4087) (EIC: BSS); M923A2 (2320-01-230-0307) (EIC: BS7); M925 (2320-01-047-8769) (EIC: BRT) M925A1 (2320-01-206-4088) (EIC: BST); M925A2 (2320-01-230-0308) (EIC: BS8); Truck, Cargo: 5-Ton, 6X6 XLWB, M927 (2320-01-047-8771) (EIC: BRV); M927A1 (2320-01-206-4089) (EIC: BSW); M927A2 (2320-01-230-0309) (EIC: (BS9); M928 (2320-01-047-8770) (EIC: BRU); M928A1 (2320-01-206-4090) (EIC: BSX); M928A2 (2320-01-230-0310) (EIC: BTM); Truck, Dump: 5-Ton, 6X6, M929 (2320-01-047-8756) (EIC: BTH); M929A1 (2320-01-206-4079) (EIC: BSY); M929A2 (2320-01-230-0305) (EIC: BTN); M930 (2320-01-047-8755) (EIC: BTG); M930A1 (2320-01-206-4080) (EIC: BSZ); M930A2 (2320-01-230-0306) (EIC: BTO); Truck, Tractor: 5-Ton, 6X6, Truck, Van, Expansibile: 5-Ton, 6X6, M934 (2320-01-047-8750), M934A1 M931 (2320-01-047-8753) (EIC: BTE); M931A1 (2320-01-206-4077) (EIC: BS2); M931A2 (2320-01-230-0302) (EIC: BTP); M932 (2320-01-047-8752) (EIC: BTD); M923A1; (2320-01-205-2684) (EIC: BS5); M932A2(2320-01- 230-0303) (EIC: BTQ); Truck, Van, Expansibile: 5-Ton, 6X6, M934 (2320-01-047-8750) (EIC: BTB); M934A1 (2320-01-205-2682) (BIC: BS4); M934A2 (2320-01-230-0300) (EIC: BTR); Truck, Medium Wrecker: 5-Ton, 6X6, M936 (2320-01-047-8754) ( EIC: BTF); M936A1 (2320-01-206-4078) (EIC: BS6); M936A2 (2320-01-230-0304) (EIC:BTT). 15 August 1996*

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**Training Circulars**

None

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**4 September 2008**

By Order of the Secretary of the Army:

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