

STP 9-91H14-SM-TG

SOLDIER'S MANUAL/TRAINER'S GUIDE

TRACKED VEHICLE MECHANIC

SKILL LEVELS 1, 2, 3, 4

**MOS 91H
March 2011**

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SOLDIER'S MANUAL and TRAINER'S GUIDE

MOS 91H/91X

Tracked Vehicle Mechanic

Skill Levels 1, 2, 3 and 4

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PREFACE

This Soldier training publication (STP) is intended for Soldiers holding MOS 91H, Skill Levels 1, 2, 3, and 4, their supervisors, trainers, and commanders. It contains an MOS Training Plan providing information needed to plan, conduct, and evaluate unit training, one of the most important jobs of military leaders. It includes standardized training objectives in the form of task summaries that can be used to train and evaluate Soldiers on critical tasks supporting unit missions during wartime.

Soldiers holding MOS 91H should have access to this publication. Trainers and first line supervisors should actively plan for Soldiers' access, making it available in work areas, unit learning centers, and unit libraries. However, it is not intended for an individual copy to be provided to each MOS holder. The STP is obtainable online from the Reimer Digital Library (RDL).

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

This publication applies to the Active Army, the Army National Guard (ARNG)/Army National Guard of the United States (ARNGUS), and the United States Army Reserve (USAR) unless otherwise stated.

The proponent of this publication is the Army Training and Doctrinal Command. Submit comments and recommendations on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Department of the Army, Training Directorate, Ordnance Training Division, ATTN: ATCL-TDF, Bldg 5020, 2221 Adams Avenue, Fort Lee, VA 23801-1511.

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

CHAPTER 1

Introduction

1-1. General. This Soldier training publication (STP) identifies individual MOS training requirements for Soldiers holding MOS 91H. 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 91H Soldiers. Commanders employ two primary methods to evaluate Soldiers' proficiency:

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

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

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

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

Use this STP along with STP 21-1-SMCT (Soldier's Manual of Common Tasks, Skill Level 1), STP 21-24-SMCT (Soldier's Manual of Common Tasks, Skill Levels 2-4), Army training and evaluation programs (ARTEPs), FM 7-0 (Training for full spectrum operations), and DA PAM 25-30 (Consolidated index of Army publications and blank forms).

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

- Task number. The task number is a 10-digit number that identifies the task and skill level. Include the task number and title in any correspondence relating to the task.
- Task title. The task title identifies the action to be performed.
- Conditions. The task conditions statement describes the field or garrison conditions under which the task will be performed and identifies the equipment, tools, references, job aids, and supporting personnel that the Soldier needs to perform the task in wartime.

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

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

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

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

Another important resource for self-development is the Army Correspondence Course Program (ACCP). Information is available at local education centers or on line through the Army Institute for Professional Development (AIPD) web site, <http://www.train.army.mil/>. The web site offers on-line enrollment.

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

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

Trainers can use the MOS training plan to determine the critical tasks each Soldier is responsible for. They should tell each Soldier which tasks he or she must be able to perform. Trainers should evaluate task performance to determine which tasks each Soldier can or cannot perform to standard. Soldiers who cannot perform a task to standard need further training. This STP helps the trainer do what trainers get paid to do; train. Developing effective training is explained in detail in FM 6-22, Army Leadership.

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

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

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

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

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CHAPTER 2

Training Guide

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

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

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

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

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

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

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

ALC	Advanced Leader Course
ASI/SD	Additional Skill Identifier/Special Duty
SLC	Senior Leader's Course
AIT	Advanced Individual Training
UNIT	Trained in the Unit

Figure 2-1. Training Locations

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

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

Figure 2-2. Sustainment Training Frequency Codes

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

2-2. Subject Area Codes.

Skill Level 1

- 1 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.

91H CAREER FIELD DUTY POSITIONS			
Duty Position	Subject Area	Cross Train	Train-up/Merger
Skill Level 1			
91H10/Tracked Vehicle Mechanic 91H10/Recovery Vehicle Operator	1	NA	91H20/Tracked Vehicle Mechanic 91H20/Recovery Vehicle Operator
Skill Level 2			
91H20/Tracked Vehicle Mechanic 91H20/Recovery Vehicle Operator	1	NA	91H30/Senior Automotive Mechanic 91H30/Maintenance Analyst 91H30/Recovery Supervisor 91H30/Senior Automotive Electric Systems Mechanic 91H30/Automotive Mechanic Sergeant 91H30/Mechanical Maintenance Sergeant 91H30/Technical Inspector 91H30/Operations Sergeant
Skill Level 3			
91H30/Senior Automotive Mechanic 91H30/Maintenance Analyst 91H30/Recovery Supervisor 91H30/Senior Automotive Electric Systems Mechanic 91H30/Automotive Mechanic Sergeant 91H30/Mechanical Maintenance Sergeant 91H30/Technical Inspector 91H30/Operations Sergeant	2 - 3	NA	91X40/Operations Sergeant 91X40/Automotive Mechanic Supervisor 91X40/Maintenance Plans/Policy NCO 91X40/Maintenance Analyst 91X40/Mechanical Maintenance Sergeant 91X40/Maintenance Control Sergeant 91X40/Maintenance Management NCO 91X40/Automotive Electric Systems Supervisor 91X40/Section Chief 91X40/Commodity Management NCO 91X40/Platoon Sergeant
Skill Level 4			
91X40/Operations Sergeant 91X40/Automotive Mechanic Supervisor 91X40/Maintenance Plans/Policy NCO 91X40/Maintenance Analyst 91X40/Mechanical Maintenance Sergeant 91X40/Maintenance Control Sergeant 91X40/Maintenance Management NCO 91X40/Automotive Electric Systems Supervisor 91X40/Section Chief 91X40/Commodity Management NCO 91X40/Platoon Sergeant	4	NA	91Z50/Engineer Equipment Supervisor 91Z50/Engineer Equipment Maintenance Inspection Team Chief 91Z50/Mechanical Maintenance Operations NCO 91Z50/Mechanical Maintenance Management NCO 91Z50/Mechanical Maintenance Supervisor 91Z50/Mechanical Maintenance Management Logistics NCO 91Z50/Operations Sergeant 91Z50/First Sergeant

2-4. Critical Tasks List.

**MOS TRAINING PLAN
91H14**

CRITICAL TASKS

Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
Skill Level 1				
Subject Area 1. Administrative Tasks (SL-1/2)				
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
Subject Area 2. Technical Tasks (SL-1/2)				
091-91H-1003	Replace Engine/Transmission on a Tracked Vehicle	AIT	SA	1/2
091-91H-1005	Replace Solenoids on a Tracked Vehicle Transmission	AIT	SA	1/2
091-91H-1006	Replace Controller/Interface Assembly on a Tracked Vehicle Transmission	AIT	SA	1/2
091-91H-1014	Maintain Diesel Power Plant/Pack on a Tracked Vehicle	AIT	SA	1/2
091-91H-1015	Maintain Fuel System on a Tracked Vehicle	AIT	BA	1/2
091-91H-1016	Maintain Cooling System on a Tracked Vehicle	AIT	BA	1/2
091-91H-1017	Maintain Electrical System on a Tracked Vehicle	AIT	BA	1/2
091-91H-1018	Maintain Suspension System on a Tracked Vehicle	AIT	BA	1/2
091-91H-1019	Maintain Steering/Braking System on a Tracked Vehicle	AIT	BA	1/2
091-91H-1020	Maintain Hydraulic System on a Tracked Vehicle	AIT	BA	1/2
091-91H-1021	Maintain Fire Extinguisher/Suppression System on a Tracked Vehicle	AIT	BA	1/2
091-91H-1022	Maintain Auxiliary Power Unit (APU) System on a Tracked Vehicle	AIT	BA	1/2
091-91H-1023	Replace Control Differential on a Tracked Vehicle (RC only)	AIT	BA	1/2
091-91H-1024	Perform Engine Tune-Up Procedures on a Tracked Vehicle	AIT	BA	1/2
Subject Area 3. ASI (H8) Recovery Tasks				
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-H8C-2004	Operate Metal Cutting Equipment	ASI/SD	SA	1-2
091-H8T-2001	Maintain Recovery Vehicle Weapons	ASI/SD	SA	1/2
091-H8T-2002	Complete 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	AN	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 Winches on a Tracked Recovery Vehicle	ASI/SD	SA	1/2
091-H8T-2009	Recover a Mired Tracked Vehicle	ASI/SD	SA	1/2
091-H8T-2010	Recover an Overturned Tracked Vehicle	ASI/SD	SA	1/2
091-H8T-2011	Tow a Tracked Vehicle on Improved/Highway Surface	ASI/SD	SA	1/2
091-H8T-2012	Tow of a Tracked Vehicle Cross Country	ASI/SD	SA	1/2
091-H8T-2013	Complete Field Expedient Recovery on a Tracked Vehicle	ASI/SD	SA	1/2
Skill Level 3				
Subject Area 4. Common Logistic Tasks (SL-3)				
091-CLT-3001	Manage a Maintenance Facility Safety Program	ALC	MO	3/4
091-CLT-3002	Establish a Maintenance Facility Publications/Electronic Technical Manual Library	ALC	MO	3/4
091-CLT-3003	Establish Maintenance Facilities	ALC	MO	3/4
091-CLT-3004	Prepare a Maintenance Facility Standing Operating Procedure	ALC	MO	3/4
091-CLT-3005	Manage Tool Control Procedures	ALC	MO	3/4
091-CLT-3006	Manage Key Control Procedures	ALC	MO	3/4
091-CLT-3007	Manage the TMDE Calibration Program	ALC	MO	3/4
091-CLT-3009	Supervise Maintenance Operations	ALC	MO	3/4
091-CLT-3012	Manage Maintenance Information Systems Reports	ALC	MO	3/4
Subject Area 5. Technical Tasks (SL-3)				
091-91H-3007	Complete Diagnostics on a Pressure Timed (PT) Injection System on a Diesel Engine	ALC	AN	3
091-91H-3008	Complete Diagnostics on Unit Type Injection System on a Diesel Engine	ALC	AN	3
091-91H-3009	Complete Diagnostics on Distributor Type Injection System on a Diesel Engine	ALC	AN	3
091-91H-3025	Complete Diagnostics on an Automatic Transmission on a Tracked Vehicle	ALC	AN	3
091-91H-3120	Complete Diagnostics on Electrical Circuits on a Tracked Vehicle	ALC	AN	3
091-91H-3122	Complete Diagnostics on Hydraulic System on a Tracked Vehicle	ALC	AN	3
091-91H-3125	Complete Battlefield Damage Assessment and Repair (BDAR) on a Tracked Vehicle	ALC	AN	3
091-91H-3130	Complete Diagnostic on the Power Distribution System on a Tracked Vehicle	ALC	AN	3
091-91H-3136	Complete Diagnostics on a Diesel Engine	ALC	SA	3
091-91H-3137	Complete Diagnostics on a Fuel System on a Tracked Vehicle	ALC	SA	3

CRITICAL TASKS

Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
091-91H-3138	Complete Diagnostics on Steering / Braking System on a Tracked Vehicle	ALC	AN	3
091-91H-3139	Complete Diagnostics on the Auxiliary Power Unit (APU) on a Tracked Recovery Vehicle	ALC	SA	3
091-91H-3140	Complete Engine Tune-up Procedures on a Diesel Engine	ALC	AN	3
091-91H-3141	Complete Recovery Operation on a Tracked Vehicle	ALC	SA	3
Skill Level 4				
Subject Area 6. Common Logistic Management Tasks (SL-4)				
091-CLT-4001	Perform Senior Rater Responsibilities for a Maintenance Section	SLC	AN	4
091-CLT-4002	Supervise Platoon/Section Administrative Procedures	SLC	AN	4
091-CLT-4003	Manage Combat Stress	SLC	AN	4
091-CLT-4006	Coordinate Support for the Maintenance Platoon/Section	SLC	AN	4
091-CLT-4010	Integrate Automated Logistics Support Systems	SLC	AN	4
091-CLT-4011	Plan Logistics Support for Maintenance Operations	SLC	AN	4
091-CLT-4021	Prepare Standing Operating Procedures for Maintenance Operations	SLC	AN	4
091-CLT-4022	Supervise the Deployment of Company Maintenance Team/Recovery Support Team/Maintenance Support Team	SLC	AN	4
091-CLT-4023	Conduct a Route Reconnaissance for a Maintenance Mission	SLC	AN	4
091-CLT-4024	Conduct an Area Reconnaissance for a Maintenance Mission	SLC	AN	4
091-CLT-4025	Manage Battlefield Maintenance Support	SLC	AN	4
091-CLT-4026	Perform Support Operations NCO Duties	SLC	AN	4
091-CLT-4027	Manage Maintenance Operations at a Maintenance Collection Point	SLC	AN	4
091-CLT-4028	Provide Maintenance Support During Tactical Operations	SLC	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 (COE) given applicable test, measurement, and diagnostic equipment (TMDE); Army regulation (AR) 750-43; Technical Bulletin (TB) 43-180; Technical Manual (TM) 9-6625-2301-14&P; TM 11-6625-3052-14; 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.
2. Inspect TMDE for damage.
3. Test-operate TMDE to determine proper operation.
4. Check calibration date, if required.
5. Clean and/or lubricate TMDE, if required.
6. Store or package TMDE properly after maintenance or use.
7. Maintain the contact test set (CTS).
8. Complete The Army Maintenance Management System (TAMMS) forms, as required.
9. Perform required preventive maintenance checks and services (PMCS).
10. Maintain tools and equipment.

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 references.	—	—
2. Inspected TMDE for damage.	—	—
3. Tested-operated TMDE to determine proper operation.	—	—
4. Checked calibration date, if required.	—	—

Performance Measures	<u>GO</u>	<u>NO-GO</u>
5. Cleaned and/or lubricated TMDE, if required.	—	—
6. Stored or packaged TMDE properly after maintenance or use.	—	—
7. Maintained the CTS.	—	—
8. Completed The Army Maintenance Management System (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 (COE) 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; 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.
2. Select and use applicable tools and test, measurement, and diagnostic equipment (TMDE).
3. Practice shop safety and maintenance discipline.
4. Perform PMCS in accordance with TM.
5. Annotate actions taken on DA Form 5988-E (Equipment Inspection Maintenance Worksheet).
6. Maintain tools and equipment.

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

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 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 (COE) given required equipment, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 5988-E (Equipment Inspection and Maintenance Worksheet), and applicable references.

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. Perform administrative actions.
 - a. Select and use applicable references.
 - b. Practice shop safety and maintenance discipline.
2. Annotate deficiencies as required by technical manual and ensure all entries are complete, as required.
3. Ensure all safety precautions and procedures are followed.
4. Ensure all entries are reviewed and verified by supervisor.
5. Ensure proper disposition of forms.

Evaluation Preparation: Provide the Soldier with the equipment and or materials described in the condition statement.

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. Performed administrative actions.	—	—
a. Selected and used applicable references.		
b. Practiced shop safety and maintenance discipline.		
2. Annotated deficiencies as required by technical manual and ensured all entries are complete, as required.	—	—
3. Ensured all safety precautions and procedures are followed.	—	—
4. Ensured all entries were reviewed and verified by supervisor.	—	—
5. 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

Required

AR 750-1
DA FORM 2404
DA FORM 5988-E
DA PAM 750-3
DA PAM 750-8
TM 9-2350-314-10

Related

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

Replace Engine/Transmission on a Tracked Vehicle**091-91H-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: Replace the engine and transmission assembly in accordance with applicable TMs and scored a "GO" on all performance measures listed. When this task is complete, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Review work request.
 - 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.
 - 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).
 - a. Identify applicable tools.
 - b. Inspect tools for damage.
4. Practice shop safety and maintenance discipline.
 - 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. Remove propeller shaft and/or final drives.
 - a. Follow steps outlined in TM.
 - b. Use proper tools.
6. Remove line and linkages.
 - a. Ensure lines are capped off to prevent Environmental Protection Agency (EPA) violations.
 - b. Use proper tools.
7. Remove powerplant.
 - a. Ensure Soldiers are out of area of projection.
 - b. Ensure engine/transmission stand is on level ground.
8. Separate transmission assembly.
 - a. Ensure transmission has been drained.
 - b. Ensure all bolts have been properly removed.
9. Switch parts as needed.
 - a. Ensure all parts are removed from old powerplant.
 - b. Replace any broken parts.
10. Replace seals as needed.
 - a. Replace engine/transmission seal.
 - b. Ensure sealant is applied to secure seal.

Performance Steps

11. Install transmission assembly.
 - a. Ensure transmission is aligned with engine.
 - b. Ensure bolts are properly place.
12. Install powerplant.
 - a. Ensure all objects and personnel are out of the way.
 - b. Ensure powerplant in aligned in hull.
13. Connect line and linkages.
 - 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.
 - 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.
 - a. Fill powerplant to test for leaks.
 - b. Fix any problems that may have occurred.
16. Complete DA Form 5988-E as required.
 - a. Annotate proper details on paperwork.
 - b. Ensure appropriate signatures are in boxes.
17. Maintain tools and equipment.
 - a. Ensure tools are cleaned before storing back in appropriate tool kit.
 - b. Ensure area is free of any oil spills.

Evaluation Preparation: None.

Performance Measures	<u>GO</u>	<u>NO-GO</u>
1. Reviewed work request. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Identified what technical manual to be used. b. Followed steps outlined in technical publication. 	_____	_____
3. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> a. Identified applicable tools. b. Inspected tools for damage. 	_____	_____
4. Practiced shop safety and maintenance discipline. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Followed steps outlined in TM. b. Used proper tools. 	_____	_____
6. Removed line and linkages. <ol style="list-style-type: none"> a. Ensured lines were capped off to prevent EPA violations. b. Used proper tools. 	_____	_____

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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.		
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

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

Related

References

Required

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

Related

Replace Solenoids on a Tracked Vehicle Transmission

091-91H-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: Replace the transmission solenoid assembly in accordance with applicable TMs. When this task is complete, the equipment or end item is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Review work request.
 - 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.
 - a. Identify which TM will be used.
 - b. Follow steps outlined in TM for deficiency.
3. Select and use applicable tools and TDME.
 - a. Identify applicable tools.
 - b. Ensure tools are not damaged.
4. Practice shop safety and maintenance discipline.
 - a. Follow safety guidelines outlined in SOP and motor pool.
 - b. Ensure proper safety equipment is utilized.
 - c. Conduct risk assessment.
5. Disconnect all applicable electrical connectors.
 - a. Ensure batteries are disconnected.
 - b. Label electrical parts, if needed.
6. Remove solenoid from transmission.
 - a. Ensure proper tool is used.
 - b. Ensure there is no damage to the transmission.
7. Inspect solenoid.
 - a. Ensure there is no external or visible damage.
 - b. Tag solenoid for turn-in.
8. Install solenoid on transmission.
 - 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.
 - a. Ensure connectors are attached to appropriate part.
 - b. Ensure batteries are connected.
10. Perform a final inspection.
 - a. Adjust components as needed.
 - b. Ensure there are no missing parts.

Performance Steps

11. Perform a functional test on the transmission solenoid assembly.
 - a. Ensure safety precautions are followed.
 - b. Ensure proper tools and TMDE are used correctly.
12. Ensure tools and equipment are properly maintained.
 - a. Clean tools before storing in appropriate storage bin.
 - b. Ensure no tools are missing.
13. Completed DA Form 5988-E, as required.
 - a. Annotate fault was correct on appropriate form.
 - b. Ensure maintenance supervisor signed in appropriate block.

Evaluation Preparation: None

Performance Measures	<u>GO</u>	<u>NO-GO</u>
1. Reviewed work request. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Identified which TM was to be used. b. Followed steps outlined in TM for deficiency. 	—	—
3. Selected and used applicable tools and TMDE. <ol style="list-style-type: none"> a. Identified applicable tools. b. Ensured tools were not damaged. 	—	—
4. Practiced shop safety and maintenance discipline. <ol style="list-style-type: none"> a. Followed safety guidelines outline in standing operating procedure (SOP) and motor pool. b. Ensured proper safety equipment was used. c. Conducted risk assessment. 	—	—
5. Disconnected all applicable electrical connectors. <ol style="list-style-type: none"> a. Ensured batteries were disconnected. b. Labeled electrical parts, if needed. 	—	—
6. Removed solenoid from transmission. <ol style="list-style-type: none"> a. Ensured proper tools were used. b. Ensured there was no damage to transmission. 	—	—
7. Inspected solenoid. <ol style="list-style-type: none"> a. Ensured there was no external or visible damage. b. Tagged solenoid for turn-in. 	—	—
8. Installed solenoid on transmission. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Ensured connectors were attached to appropriate part. b. Ensured batteries were reconnected. 	—	—

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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 9-2350-277-24P
 TM 9-2350-277-34

Related

Replace Controller/Interface Assembly on a Tracked Vehicle Transmission
091-91H-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 91H personnel had been identified.

Performance Steps

1. Review work request.
 - 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.
 - 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).
 - a. Identify applicable tools.
 - b. Inspect tools for damage.
4. Follow prescribed safety procedures.
 - 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.
 - a. Ensure motor pool safety guidelines are followed.
 - b. Follow Environmental Protection Agency (EPA) guidelines.
6. Disconnect all applicable electrical connections.
 - a. Ensure batteries are disconnected.
 - b. Label electrical parts, if needed.
7. Disconnect all applicable fittings.
 - a. Ensure appropriate tool is used.
 - b. Place fittings in secure place.
8. Disconnect all applicable lines.
 - a. Ensure lines are capped off.
 - b. Tag lines, if needed.
9. Remove controller/interface assembly from transmission.
 - a. Ensure EPA guidelines are applied.
 - b. Ensure proper tools are used.
10. Inspect controller/interface assembly from transmission.
 - a. Check for external damage.
 - b. Tag for turn-in.

Performance Steps

11. Install controller/interface assembly on transmission.
 - a. Ensure part is right for the job.
 - b. Use appropriate tools.
12. Connect all applicable electrical connections.
 - a. Ensure electrical lines are connected properly.
 - b. Use appropriate tool for job.
13. Connect all applicable fittings.
 - a. Inspected fittings for damage.
 - b. Ensure right fittings are connected.
14. Connect all applicable lines.
 - 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.
 - a. Ensure all fluids are filled to specification.
 - b. Conduct visual inspection of components before starting vehicle.
16. Maintain tools and equipment.
 - a. Ensure all tools are cleaned before storing.
 - b. Ensure area is free of EPA violations.
17. Complete DA Form 5988-E, as required.
 - 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. <ol style="list-style-type: none"> a. Ensured deficiencies were annotated on DA Form 2404 and DA Form 5988-E. b. Ensured paperwork is in accordance with DA PAM 738-750 and 738-751. 	_____	_____
2. Selected and used applicable publications. <ol style="list-style-type: none"> a. Identified what technical manual was used. b. Followed steps outlined in technical publication. 	_____	_____
3. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> a. Identified applicable tools. b. Inspected tools for damage. 	_____	_____
4. Followed prescribed safety procedures. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Ensured motor pool safety guidelines were followed. b. Followed EPA guidelines. 	_____	_____
6. Disconnected all applicable electrical connections. <ol style="list-style-type: none"> a. Ensured batteries were disconnected. b. Labeled electrical parts, if needed. 	_____	_____

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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.	—	—
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

Required	Related
AR 385-10	
DA FORM 2404	
DA FORM 5988-E	
DA PAM 738-751	
DA PAM 750-8	
FM 4-30.3	

References

Required

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

Related

Maintain Diesel Power Plant/Pack on a Tracked Vehicle
091-91H-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: Maintain the diesel power plant/pack in accordance with applicable TMs. When this task is complete the equipment or end item is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Review work request.
 - 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.
 - 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).
 - a. Identify which tools will be used.
 - b. Ensure tools are serviceable.
4. Follow prescribed safety procedures.
 - 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.
 - a. Ensure motor pool guidelines are followed.
 - b. Follow Environmental Protection Agency (EPA) guidelines.
6. Disconnect all applicable fuel, oil, air, and coolant lines.
 - a. Ensure all fluids are drained, if needed.
 - b. Ensure lines are capped off, if required.
7. Disconnect all applicable electrical connections.
 - a. Ensure batteries are disconnected.
 - b. Label electrical lines, if needed.
8. Remove diesel power plant.
 - 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.
 - a. Ensure no components are missing.
 - b. Ensure there is no external damage.
 - c. Ensure there are no leaks.
10. Test diesel power plant.
 - 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.
 - 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.
 - 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.
 - a. Ensure deck is lifted out of the way.
 - b. Ensure there is enough clearance to place power plant.
14. Adjust systems and components.
 - 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.
 - a. Ensure there are no leaks visible.
 - b. Ensure all connects are tightened.
 - c. Ensure deck was lower.
16. Maintain tools and equipment.
 - a. Ensure all tools are cleaned before storing.
 - b. Ensure all oil spills are cleaned up.
17. Complete DA Form 5988-E, as required.
 - a. Annotated corrected fault on form.
 - b. Ensure supervisor signs in appropriate block.

Evaluation Preparation: None

Performance Measures

	<u>GO</u>	<u>NO-GO</u>
1. Reviewed work request. <ol style="list-style-type: none"> a. Ensured deficiencies are 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. <ol style="list-style-type: none"> a. Identified what technical manual will be used. b. Followed steps outlined in technical publication. 	—	—
3. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> a. Identified which tools were used. b. Ensured tool were serviceable. 	—	—

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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.		

Performance Measures

	<u>GO</u>	<u>NO-GO</u>
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**Required**

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 9-2350-261-10
 TM 9-2350-261-20-1
 TM 9-2350-261-20-2
 TM 9-2350-261-20-3

Related

Maintain Fuel System on a Tracked Vehicle
091-91H-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; 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 9-1450-500-20, 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: Maintain tracked vehicle fuel systems in accordance with the applicable TM procedures and specifications. When this task is complete, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Identify what TM will be used.
 - b. Follow steps outlined in technical publication.
2. Select and use correct tools and TMDE.
 - a. Identify applicable tools.
 - b. Ensure there is no damage to tools.
3. Follow prescribed safety procedures.
 - 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.
 - a. Ensure motor pool guidelines are followed.
 - b. Follow Environmental Protection Agency (EPA) guidelines.
5. Disconnect all applicable fuel lines and fittings.
 - 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.
 - a. Ensure batteries are disconnected.
 - b. Label electrical lines, if needed.
7. Remove fuel pump and components.
 - 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.
 - a. Check components for debris.
 - b. Ensure all parts are serviceable.
9. Replace fuel pump and components.
 - a. Inspect pump for serviceability.
 - b. Ensure pump is the correct one.

Performance Steps

10. Connect all applicable fuel lines and fittings.
 - a. Uncap lines to connect lines to pump.
 - b. Ensure appropriate tools are used.
11. Connect all applicable electrical connections.
 - a. Connect batteries.
 - b. Tighten all parts according to TM.
12. Perform a final operational check to verify part was replaced to specifications.
 - 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.
 - a. Ensure tools are cleaned before storing.
 - b. Clean up any oil and fuel spills.
14. Complete DA Form 5988-E, as required.
 - a. Annotated correct fault on applicable 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. <ol style="list-style-type: none"> a. Identified what TM was used. b. Followed steps outlined in technical publication. 	—	—
2. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> a. Identified applicable tools. b. Ensured there was no damage to tools. 	—	—
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> a. Ensured safety guidelines were followed in accordance with SOP. b. Ensured safety equipment was used. c. Conducted risk assessment. 	—	—
4. Practiced maintenance discipline. <ol style="list-style-type: none"> a. Ensured motor pool guidelines were followed. b. Followed EPA guidelines. 	—	—
5. Disconnected all applicable fuel lines and fitting. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Ensured batteries were disconnected. b. Labeled electrical lines, if needed. 	—	—
7. Removed fuel pump and components. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Checked components for debris. b. Ensured all parts are serviceable. 	—	—

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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	Related
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	

Maintain Cooling System on a Tracked Vehicle
091-91H-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 9-2350-256-20-1, 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: Maintain tracked vehicle cooling systems in accordance with the applicable TM procedures and specifications. When this task is completed, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Identify which TM will be used.
 - b. Follow steps outlined in TM for deficiency.
2. Select and use correct tools and TMDE.
 - a. Identify applicable tools.
 - b. Ensure tools are not damaged.
3. Follow prescribed safety procedures.
 - 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.
 - a. Follow safety guidelines in motor pool.
 - b. Ensure proper safety equipment is utilized.
5. Verify work request.
 - 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.
 - 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.
 - a. Ensure there is no visible damage to components.
 - b. Inspect gaskets or seals.
8. Clean tracked vehicle cooling system components mounting surface.
 - 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.
 - 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.
 - a. Ensure all fluids have been filled to specification.
 - b. Verify fault has been corrected.
11. Check for leaks.
 - 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.
 - 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.
 - a. Clean tools before storing in storage bin.
 - b. Clean up any fluid spills according to Environmental Protection Agency (EPA).

Evaluation Preparation: None

Performance Measures	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable publications. <ol style="list-style-type: none"> a. Identified which TM was used. b. Followed steps outlined in TM for deficiencies. 	—	—
2. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> a. Identified applicable tools. b. Ensured tools were not damaged. 	—	—
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> a. Followed prescribed safety procedures outlined in the TM. b. Followed prescribed safety procedures outlined in the unit SOP. 	—	—
4. Practiced maintenance discipline. <ol style="list-style-type: none"> a. Followed safety guidelines in motor pool. b. Ensured proper safety equipment was used. 	—	—
5. Verified work request. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Ensured there was no visible damage to components. b. Inspected gaskets and seals. 	—	—

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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.		
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	Related
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 9-1450-646-10	
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	

References

Required

TM 9-2350-261-20-1

TM 9-2350-261-20-2

TM 9-2350-261-20-3

Related

Maintain Electrical System on a Tracked Vehicle
091-91H-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 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, 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: Maintain tracked vehicle electrical system in accordance with the applicable TM procedures and specifications. When this task is complete, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Select and use applicable publication.
 - a. Identify which TM will be used.
 - b. Follow steps outlined in TM.
2. Select and use correct tools and TMDE.
 - a. Identify applicable tools, if required.
 - b. Ensure serviceability of tools.
3. Follow prescribed safety procedures.
 - a. Follow prescribed safety procedures outlined in the TM.
 - b. Follow prescribed safety procedures outlined in the unit standing operating procedure (SOP).
4. Practice shop safety and maintenance discipline.
 - 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.
 - 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.
 - a. Follow steps outlined in TM.
 - b. Ensure all electrical components have been checked.
7. Replace tracked vehicle electrical system components, as required.
 - 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.
 - 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.
 - 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.
 - 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

Performance Measures	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable publications. <ol style="list-style-type: none"> a. Identified which TM was used. b. Followed steps outlined in TM. 	—	—
2. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> a. Identified applicable tools, if required. b. Ensured serviceability of tools. 	—	—
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> a. Followed prescribed safety procedures outlined in the TM. b. Followed prescribed safety procedures outlined in the unit SOP. 	—	—
4. Practiced shop safety and maintenance discipline. <ol style="list-style-type: none"> a. Followed motor pool safety guidelines. b. Ensured appropriate safety signs were displayed. c. Ensured another Soldier was available for assistance. 	—	—
5. Verified work request. <ol style="list-style-type: none"> 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. Conducted troubleshooting of tracked vehicle electrical system and components. <ol style="list-style-type: none"> a. Followed steps outlined in TM. b. Ensured all electrical components have been checked. 	—	—
7. Replaced tracked vehicle electrical system components, as required. <ol style="list-style-type: none"> a. Replaced electrical components, if on hand. b. Ordered any electrical part that was not on hand on the correct form. c. Tagged and labeled any component for turn-in. 	—	—
8. Performed a final operational check to verify part was replaced to specifications. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Ensured all tools were cleaned and serviceable. b. Cleaned area after work was completed. 	—	—
10. Completed TAMMS forms, as required. <ol style="list-style-type: none"> 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 9-2350-261-10
 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

TM 9-2350-256-20-2

Maintain Suspension System on a Tracked Vehicle
091-91H-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: Maintain tracked vehicle suspension systems in accordance with the applicable TM procedures and specifications. When this task is complete, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Identify which TM will be used.
 - b. Follow steps outline in TM for deficiency.
2. Select and use correct tools and TMDE.
 - a. Identify applicable tools in basic issue items (BII).
 - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures.
 - 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.
 - a. Follow safety guidelines outline in motor pool.
 - b. Ensure proper safety equipment is utilized.
5. Verify work request.
 - 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.
 - a. Ensure vehicle is chock blocked.
 - b. Ensure parking brake is engaged.
 - c. Check all components are in accordance with TM.
7. Remove defective suspension system components, as required.
 - 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.
 - 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.
 - 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.

Performance Steps

- 10. Maintain tools and equipment.
 - 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.
 - a. Annotate deficiency was corrected on applicable 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. <ul style="list-style-type: none"> a. Identified which TM was used. b. Followed steps outlined in TM for deficiency. 	—	—
2. Selected and used correct tools and TMDE. <ul style="list-style-type: none"> a. Identified applicable tools in BII. b. Ensured tools were serviceable. 	—	—
3. Followed prescribed safety procedures. <ul style="list-style-type: none"> a. Followed prescribed safety procedures outlined in the TM. b. Followed prescribed safety procedures outlined in the unit SOP. 	—	—
4. Practiced maintenance discipline. <ul style="list-style-type: none"> a. Followed safety guidelines outlined in motor pool. b. Ensured proper safety equipment was used. 	—	—
5. Verified work request. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> a. Cleaned tools before storing in tool kit. b. Ensured vehicle and area were free of any EPA violations. 	—	—

Performance Measures

GO **NO-GO**

- 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 9-2350-261-10
- 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 Steering/Braking System on a Tracked Vehicle
091-91H-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: Maintain tracked vehicle steering/braking system in accordance with the applicable TM procedures and specifications. When this task is complete, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Select and use applicable publication.
 - a. Identify which TM will be used.
 - b. Follow steps outlined in TM for fault.
2. Select and use correct tools and TMDE.
 - a. Identify applicable tools in basic issue items (BII).
 - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures.
 - 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.
 - a. Follow safety guidelines outlined in the motor pool.
 - b. Ensure proper safety equipment is used.
5. Inspect tracked vehicle steering and braking system and components.
 - 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.
 - 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.
 - 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.
 - a. Take vehicle on road test.
 - b. Perform a preventive maintenance checks and services (PMCS).

Performance Steps

9. Maintain tools and equipment.
 - a. Ensure tools are cleaned and serviceable.
 - b. Ensure vehicle is free of any Environmental Protection Agency (EPA) violations.
10. Complete DA Form 5988-E, as required.
 - a. Annotate corrected fault on applicable 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. <ol style="list-style-type: none"> a. Identified which TM was used. b. Followed steps outlined in TM for fault. 	—	—
2. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> a. Identified applicable tools in BII. b. Ensured tools were serviceable. 	—	—
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> a. Followed prescribed safety procedures outlined in the TM. b. Followed prescribed safety procedures outlined in the unit SOP. 	—	—
4. Practiced maintenance discipline. <ol style="list-style-type: none"> a. Followed safety guidelines outlined in motor pool. b. Ensured proper safety equipment was used. 	—	—
5. Inspected tracked vehicle steering and braking system and components. <ol style="list-style-type: none"> a. Followed steps outlined in technical manual. b. Checked vehicle for leaks. c. Ensured component is drained of fluids. d. Checked vehicle system for any missing components. 	—	—
6. Removed tracked vehicle steering and brake system components, as required. <ol style="list-style-type: none"> a. Removed component that was damaged. b. Ensured proper safety equipment was used. c. Tagged and labeled part for turn-in. 	—	—
7. Checked tracked vehicle steering and brake system components for leaks. <ol style="list-style-type: none"> a. Ensured parts were tightened to specification. b. Ensured component was filled with appropriate fluid. c. Verified fault was corrected. 	—	—
8. Performed a final operational check to verify part was replaced to specifications. <ol style="list-style-type: none"> a. Took vehicle on road test. b. Performed a PMCS. 	—	—
9. Maintained tools and equipment. <ol style="list-style-type: none"> a. Ensured tools were cleaned and serviceable. b. Ensured vehicle was free of any EPA violations. 	—	—
10. Completed DA Form 5988-E, as required. <ol style="list-style-type: none"> a. Annotated corrected fault 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 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
091-91H-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: Maintain tracked vehicle hydraulic system in accordance with the applicable TM procedures and specifications. When this task is completed, the vehicle is fully mission capable or maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Identify which TM will be used.
 - b. Follow steps outline in TM for deficiency.
2. Select and use correct tools and TMDE.
 - a. Identify applicable tools in basic issue items (BII).
 - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures.
 - 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.
 - 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.
5. Inspect tracked vehicle hydraulic system and components.
 - 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.
 - 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.
 - 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.
 - a. Start vehicle and engage hydraulics.
 - b. Shift controls to see if they work.

Performance Steps

9. Perform a final operational check to verify part was replaced to specification.
 - a. Conduct a road test.
 - b. Verify fault was corrected.
10. Maintain tools and equipment.
 - 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.
 - a. Annotate corrected fault on applicable form.
 - b. Ensure supervisor signs form, if required.

Evaluation Preparation: None

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

Performance Measures

GO **NO-GO**

- | | | |
|---|---------------------------|---------------------------|
| <p>10. Maintained tools and equipment.</p> <p style="margin-left: 20px;">a. Ensured tools were cleaned and serviceable.</p> <p style="margin-left: 20px;">b. Ensured vehicle was free of any EPA violations.</p> <p>11. Completed DA Form 5988-E, as required.</p> <p style="margin-left: 20px;">a. Annotated corrected fault on applicable form.</p> <p style="margin-left: 20px;">b. Ensured supervisor signed form, if required.</p> | <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

Related

- 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

Maintain Fire Extinguisher/Suppression System on a Tracked Vehicle
091-91H-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), 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: Maintain tracked vehicle fire extinguisher/suppression system in accordance with the applicable TM procedures and specifications. When this task is completed, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Identify which TM was used.
 - b. Follow step outlined in TM for deficiency.
2. Select and use correct tools and TMDE.
 - a. Identify applicable tools in basic issue items (BII).
 - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures.
 - 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.
 - a. Follow safety guidelines outlined in the motor pool.
 - b. Ensure proper safety equipment is used.
5. Verify work request.
 - 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.
 - 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.
 - a. Ensure component is filled.
 - b. Ensure component is label correctly.
 - c. Ensure appropriate tools are used.
8. Perform a final operational check to verify part was replaced to specification.
 - a. Engage system for serviceability.
 - b. Verify fault has been corrected.
9. Check for leaks.
 - a. Ensure all hoses and lines are hooked properly.
 - b. Perform a preventive maintenance checks and services (PMCS).
10. Maintain tools and equipment.
 - a. Ensure all tools are cleaned.
 - b. Ensure equipment is cleaned.

Performance Steps

11. Complete DA Form 5988-E, as required.
 - 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. <ol style="list-style-type: none"> a. Identified which TM was used. b. Followed steps outlined in TM for deficiency. 	—	—
2. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> a. Identified applicable tools in BII. b. Ensured tools are serviceable. 	—	—
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> a. Followed prescribed safety procedures outlined in the TM. b. Followed prescribed safety procedures outlined in unit SOP. 	—	—
4. Practiced maintenance discipline. <ol style="list-style-type: none"> a. Followed safety guidelines outlined in motor pool. b. Ensured proper safety equipment was used. 	—	—
5. Verified work request. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. 	—	—
7. Replaced tracked vehicle fire extinguisher/suppression system components, as required. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Engaged system for serviceability. b. Verified fault was corrected. 	—	—
9. Checked for leaks. <ol style="list-style-type: none"> a. Ensured all hoses and lines were hooked properly. b. Performed a PMCS. 	—	—
10. Maintained tools and equipment. <ol style="list-style-type: none"> a. Ensured all tools were cleaned. b. Ensured equipment was cleaned. 	—	—
11. Completed DA Form 5988-E, as required. <ol style="list-style-type: none"> 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

Related

**Maintain Auxiliary Power Unit (APU) System on a Tracked Vehicle
091-91H-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: Maintain M88A1 tracked vehicle Auxiliary Power Unit (APU) in accordance with the applicable TM procedures and specifications. When this task is complete, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Identify which TM will be used.
 - b. Follow steps outlined in TM for fault.
2. Select and use correct tools and TMDE.
 - a. Identify applicable tools in basic issue items (BII).
 - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures.
 - 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.
 - a. Follow safety guidelines outlined in the motor pool.
 - b. Ensure proper safety equipment is used.
5. Verified work request.
 - 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.
 - 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.
 - a. Troubleshoot APU system in accordance with TM.
 - b. Check for any leaks.
8. Remove tracked vehicle APU system components, as required.
 - a. Ensure appropriate tools are used.
 - b. Disconnect all lines and hoses.
 - c. Tag and label component for turn-in.
9. Replace tracked vehicle APU system components, as required.
 - a. Ensure appropriate tools are used.
 - b. Follow steps outlined in TM.
 - c. Verify fault has been corrected.

Performance Steps

10. Perform a final operational check to verify part was replaced to specification.
 - 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.
 - 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.
 - 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	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable publications. <ol style="list-style-type: none"> a. Identified which TM was used. b. Followed steps outlined in the TM for fault. 	—	—
2. Selected and used correct tools and TMDE. <ol style="list-style-type: none"> a. Identified applicable tools in BII. b. Ensured tools are serviceable. 	—	—
3. Followed prescribed safety procedures. <ol style="list-style-type: none"> a. Followed prescribed safety procedures outlined in the TM. b. Followed prescribed safety procedures outlined in the unit SOP. 	—	—
4. Practiced maintenance discipline. <ol style="list-style-type: none"> a. Followed safety guidelines outlined in the motor pool. b. Ensured proper safety equipment was used. 	—	—
5. Verified work request. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Inspected APU system and components for visible damage, in accordance with TM. b. Checked for leaks. 	—	—
7. Troubleshoot APU system on tracked vehicle fuel system. <ol style="list-style-type: none"> a. Troubleshot APU system in accordance with TM. b. Checked for any leaks. 	—	—
8. Removed tracked vehicle APU system components, as required. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Ensured appropriate tools were used. b. Followed steps outlined in TM. c. Verified fault was corrected. 	—	—

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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

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

Related

Replace Control Differential on a Tracked Vehicle (RC only)**091-91H-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: Replace control differential on a tracked vehicle in accordance with the applicable TM procedures and specifications. When this task is complete, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Identify which TM will be used.
 - b. Follow steps outlined in TM for fault.
2. Select and use correct tools and TMDE.
 - a. Identify applicable tools in basic issue items (BII).
 - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures.
 - a. Follow prescribed safety procedures outlined in TM.
 - b. Follow prescribed safety procedures outlined in unit standing operating procedure (SOP).
4. Practice maintenance discipline.
 - a. Follow safety guidelines outlined in motor pool.
 - b. Ensure proper safety equipment is used.
5. Verify work request.
 - 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.
 - a. Check to see if there is any visible damage.
 - b. Follow steps outlined in TM.
7. Remove tracked vehicle differential and components, as required.
 - 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.
 - 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.
 - a. Verify fault was corrected.
 - b. Ensure components were tightened to specification.
 - c. Follow steps outlined in TM to test component.

Performance Steps

10. Maintain tools and equipment.
 - 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.
 - 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

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

Performance Measures

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

Required	Related
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
091-91H-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: Perform engine tune-up on a tracked vehicle in accordance with the applicable TM procedures and specifications. When this task is complete, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Identify which TM will be used.
 - b. Follow steps outlined in TM for fault.
2. Select and use correct tools and TMDE.
 - a. Identify applicable tools in basic issue items (BII).
 - b. Ensure tools are serviceable.
3. Follow prescribed safety procedures.
 - a. Follow prescribed safety procedures outlined in TM.
 - b. Follow prescribed safety procedures outlined in unit standing operating procedure (SOP).
4. Practice maintenance discipline.
 - a. Follow safety guidelines outlined in motor pool.
 - b. Ensure proper safety equipment is used.
5. Verify work request.
 - 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).
 - 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.
 - a. Ensure vehicle is chock blocked.
 - b. Start vehicle and conduct test as outlined in TM.
8. Remove tracked vehicle engine components as required.
 - 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.
 - 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.

Performance Steps

10. Perform a final operational check to verify part was replaced to specification.
 - a. Start vehicle and adjust components as specified in TM.
 - b. Verify fault has been corrected.
11. Maintain tools and equipment.
 - 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.
 - 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

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

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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	Related
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	
TM 9-2350-261-24P	
TM 9-2815-219-34	
TM 9-2815-220-24	

Subject Area 3: ASI (H8) Recovery Tasks

Locate a Recovery Site
091-H8C-2001

Conditions: In a contemporary operational environment (COE) given a representative recovery vehicle, required materials, applicable tools, and applicable references.

Standards: Locate 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.

Evaluation Preparation: Ensure all equipment and special tools are available before evaluation. All initial set-up and equipment conditions must be performed in accordance with appropriate references to successfully complete the task.

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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.	_____	_____

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	Related
DA PAM 25-30	TC 43-35
FM 3-25.26	
TM 9-2320-279-20-1	
TM 9-2320-279-20-2	
TM 9-2320-279-20-3	

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

Conditions: In a contemporary operational environment (COE) given a representative recovery vehicle, required materials, applicable tools, and applicable references.

Standards: Determine 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.

Evaluation Preparation: Ensure all equipment and special tools are available before evaluation. All initial set-up and equipment conditions must be performed in accordance with appropriate references to successfully complete the task.

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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.	—	—

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 9-2320-279-20-1
- 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 (COE) given tactical communications equipment and applicable references.

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.

Evaluation Preparation: Ensure all equipment and special tools are available before evaluation. All initial set-up and equipment conditions must be performed in accordance with appropriate references to successfully complete the task.

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

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

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

Conditions: In a contemporary operational environment (COE) given a representative recovery vehicle, required materials, applicable tools, and applicable references.

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.

Evaluation Preparation: Ensure all equipment and special tools are available before evaluation. All initial set-up and equipment conditions must be performed in accordance with appropriate references to successfully complete the task.

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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.	—	—

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 9-2320-279-20-1
- 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

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

Conditions: In a contemporary operational environment (COE) 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: Maintain the M88 series vehicle weapons in accordance with the preventive maintenance checks and services (PMCS) table and procedures and specifications of the applicable TM. When this task is complete, the vehicle is fully mission capable or maintenance actions required to be performed by other than H8 skill levels (SLs) 1/2 personnel has been identified.

Performance Steps

1. Select and use applicable publication.
 - a. Ensure appropriate TM is used.
 - b. Ensure steps are followed outlined in the TM.
2. Use proper safety methods.
 - a. Ensure proper safety methods are followed.
 - b. Follow prescribed safety precautions outlined in TM.
3. Disassemble machine gun.
 - 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.
 - 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.
 - a. Clean each machine gun component.
 - b. Follow lubrication procedures outline in the TM.
6. Assemble machine gun.
 - a. Locate and identify machine gun components to be assembled.
 - b. Follow assemble procedures outline within the TM.
7. Set head-space and timing.
 - 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.
 - 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.

Performance Steps

9. Ensure launcher tubes are free of rust, dirt and corrosion.
 - a. Follow proper procedures outlined in the TM.
 - b. Remove any rust, dirt and corrosion found within or on launcher tubes.
10. Ensure that grenade launcher wiring harness connectors are connected.
 - a. Locate and identify grenade launcher wiring harness connectors.
 - b. Check grenade launcher wiring harness for proper connections.

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. <ol style="list-style-type: none"> a. Ensured appropriate TMs were used. b. Ensured steps are followed outlined in the TM. 	_____	_____
2. Used proper safety methods. <ol style="list-style-type: none"> a. Ensured proper safety methods are followed. b. Followed prescribed safety precautions outlined in TM. 	_____	_____
3. Disassembled machine gun. <ol style="list-style-type: none"> a. Ensured machine gun was on safe. b. Locked bolt to the rear. c. Ensured weapon was cleared. d. Followed steps outlined in the TM. 	_____	_____
4. Checked for broken or missing parts. <ol style="list-style-type: none"> a. Separated machine gun components. b. Visually inspected each machine gun component for damage. c. Tagged and labeled any parts for turn-in. d. Ensured DA Form 2404 and DA Form 5988-E have been filled out. 	_____	_____
5. Ensured all parts were cleaned and lubricated. <ol style="list-style-type: none"> a. Cleaned each machine gun component. b. Followed lubrication procedures outlined in the TM. 	_____	_____
6. Assembled machine gun. <ol style="list-style-type: none"> a. Located and identified machine gun components to be assembled. b. Followed assembly procedures outline within the TM. 	_____	_____
7. Set head-space and timing. <ol style="list-style-type: none"> a. Ensured proper tools were used. b. Followed procedures outlined in the TM. c. Verified head-space and timing settings. 	_____	_____
8. Inspected machine gun mount for missing, cracked, or broken parts. <ol style="list-style-type: none"> a. Followed proper procedures outlined in the TM. b. Tagged and labeled any broken parts for turn-in. c. Ensured part had been requisitioned on proper paperwork. 	_____	_____

Performance Measures

	<u>GO</u>	<u>NO-GO</u>
9. Ensured launcher tubes were free of rust, dirt, and corrosion.	—	—
a. Followed proper procedures outlined in the TM.		
b. Removed any rust, dirt, and corrosion found within or on launcher tubes.		
10. Ensured that grenade launcher wiring harness connectors were connected.	—	—
a. Located and identified grenade launcher wiring harness connections.		
b. Checked grenade launcher wiring harness for proper connections.		

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

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

Conditions: In a contemporary operational environment (COE) 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: Inspect 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. When this task is complete, the vehicle is fully mission capable or maintenance actions required to be performed by other than H8 skill levels (SLs) 1/2 personnel has been identified.

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).

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. 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.	—	—
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	Related
DA FORM 2404	AR 385-10
DA FORM 5988-E	AR 750-1
DA PAM 750-8	AR 750-43
TM 9-2350-256-10	TM 9-243
TM 9-2350-256-20-1	TM 9-8000
TM 9-2350-256-20-2	
TM 9-2350-256-24P-1	
TM 9-2350-256-24P-2	
TM 9-2350-292-10	

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

Conditions: In a contemporary operational environment (COE) 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: Remove, clean, and store 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. When this task is complete, the vehicle is fully mission capable or maintenance actions required to be performed by other than H8 skill levels (SLs) 1/2 personnel has been identified.

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).

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. 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 (COE) 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: Negotiate 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. When this task is complete, the vehicle is fully mission capable or maintenance actions required to be performed by other than H8 skill levels (SLs) 1/2 personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Ensure appropriate TM is used.
 - b. Verify procedures while performing tracked recovery operations.
2. Perform preventive maintenance checks and services (PMCS).
 - 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.
 - 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.
 - 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.
 - 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.
 - a. Ensure ground guide is used.
 - b. Maintain proper speed while vehicle is in reverse.
7. Stop vehicle.
 - 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.
 - a. Ensure proper ground guides are used.
 - b. Ensure there is enough clearance from other vehicles.
9. Stop engine (normal and emergency procedures).
 - a. Follow guidelines outlined in TM for proper stopping procedures.
 - b. Ensure parking brake is engaged.

Performance Steps

- c. Ensure vehicle is chock blocked.
 - d. Perform an after-operations PMCS.
10. Complete TAMMS forms, as required.
 - 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.
 - a. Follow safety procedures outlined in TM.
 - b. Follow safety procedures outlined in unit standing operating procedure (SOP).

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. <ul style="list-style-type: none"> a. Followed procedures outlined within TM. b. Verified procedures while performing tracked recovery operations. 	_____	_____
2. Performed preventive maintenance checks and services (PMCS). <ul style="list-style-type: none"> a. Identified what TM was used. b. Followed procedures outlined within TM. c. Annotated any deficiencies on appropriate forms. d. Ensured forms are in accordance with DA Pamphlet 738-751 and DA Pamphlet 750-8. 	_____	_____
3. Started engine. <ul style="list-style-type: none"> a. Ensured vehicle parking brake was engaged. b. Checked instrument panel to ensure gauges were operational. c. Followed start up procedures outlined in TM. 	_____	_____
4. Placed vehicle in motion. <ul style="list-style-type: none"> a. Disengaged parking brake. b. Followed safety procedures outlined in motor pool. c. Ensured ground guide was used, if required. 	_____	_____
5. Drove vehicle, maintaining proper engine speed when descending and ascending grades. <ul style="list-style-type: none"> a. Followed vehicle operating instructions, while maintaining proper engine speed, when descending and ascending grades. b. Verified vehicle operating instructions, while maintaining proper engine speed, when descending and ascending grades. 	_____	_____
6. Drove vehicle in reverse. <ul style="list-style-type: none"> a. Ensured ground guide was used. b. Maintained proper speed while vehicle was in reverse. 	_____	_____
7. Stopped vehicle. <ul style="list-style-type: none"> a. Followed safety guidelines outlined in motor pool. b. Carefully brought vehicle to a stop, while adhering to safe driving habits. 	_____	_____

Performance Measures	<u>GO</u>	<u>NO-GO</u>
8. Parked vehicle.	_____	_____
a. Ensured proper ground guides were used.		
b. Ensured there was enough clearance from other vehicles.		
9. Stopped engine (normal and emergency procedures).	_____	_____
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.	_____	_____
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.	_____	_____
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

DA PAM 738-751
 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

Related

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

Operate Auxiliary Power Unit 091-H8T-2005

Conditions: In a contemporary operational environment (COE) 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: Operate 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. When this task is complete, the vehicle is fully mission capable or maintenance actions required to be performed by other than H8 skill levels (SLs) 1/2 personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Ensure appropriate TM is used.
 - b. Follow steps outlined in TM pertaining to APU procedures.
2. Start APU.
 - 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. Actuate generator switch to charge batteries.
 - 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.
 - a. Follow procedures outlined within TM.
 - b. Verify procedures while performing refueling/refueling operations.
5. Connect and operate hydraulic equipment.
 - a. Ensure all steps are followed in accordance with TM.
 - b. Verify connection while operating hydraulic equipment.
6. Shut down APU.
 - 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).

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.	—	—
a. Ensured appropriate TM was used.		
b. Followed steps outline in TM pertaining to APU procedures.		
2. Started APU.	—	—
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.	—	—
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.	—	—
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.	—	—
a. Followed procedures outlined within TM.		
b. Verified connection while operating hydraulic equipment.		
6. Shut down APU.	—	—
a. Followed APU shutdown procedures outlined within TM.		
b. Verified procedures while performing APU shutdown task.		
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	Related
AR 385-10	
AR 750-1	
AR 750-43	
TM 9-2350-256-10	
TM 9-2350-256-20-1	
TM 9-2350-256-20-2	
TM 9-2350-292-10	

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

Conditions: In a contemporary operational environment (COE) 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: Rig and operate 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. When this task is complete, the vehicle is fully mission capable or maintenance actions required to be performed by other than H8 skill levels (SLs) 1/2 personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Ensure appropriate TM is used.
 - b. Verify procedures while performing Boom, Hoist, and Winch operations.
2. Prepare vehicle for use of hydraulic equipment.
 - 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.
 - a. Follow steps outlined in TM.
 - b. Check equipment for any leaks.
4. Operate hoist winch.
 - 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.
 - 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.
 - a. Follow safety procedures outlined in motor pool.
 - b. Ensure to follow all safety guidance outlined with standing operating procedure (SOP).

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

1. Selected and used applicable publications.
 - a. Ensured appropriate TM was used.
 - b. Verified procedures while performing Boom, Hoist, and Winch operations.

GO **NO-GO**

_____ _____

Performance Measures	<u>GO</u>	<u>NO-GO</u>
2. Prepared vehicle for use of hydraulic equipment.	—	—
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.	—	—
a. Followed steps outlined in TM.		
b. Checked equipment for any leaks.		
4. Operated hoist winch.	—	—
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.	—	—
a. Ensured all equipment was properly secured.		
b. Ensured area is cleaned in accordance with EPA regulations.		
6. Followed prescribed safety procedures.	—	—
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

Required

AR 385-10

AR 750-1

AR 750-43

TM 9-2350-256-10

TM 9-2350-256-20-1

TM 9-2350-256-20-2

TM 9-2350-292-10

Related

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

Conditions: In a contemporary operational environment (COE) 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: Operate the spade in accordance with applicable technical publication procedures and specifications without injury to personnel or damage to equipment. When this task is completed, the vehicle is fully mission capable or maintenance actions required to be performed by other than H8 skill levels (SLs) 1/2 personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Ensure appropriate TM is used.
 - b. Follow steps identified in TM for job performance.
2. Prepare vehicle for use of hydraulic equipment.
 - a. Follow steps outlined in TM.
 - b. Perform a before-operations preventive maintenance checks and services (PMCS).
3. Operate spade.
 - 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.
 - 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.
 - a. Follow safety procedures outlined in TM.
 - b. Follow safety procedures outlined in unit standing operating procedure (SOP).

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. <ol style="list-style-type: none"> a. Ensured appropriate TM is used. b. Followed steps outlined in TM for job performance. 	_____	_____
2. Prepared vehicle for use of hydraulic equipment. <ol style="list-style-type: none"> a. Followed steps outlined in TM. b. Performed a before-operations PMCS. 	_____	_____

Performance Measures	<u>GO</u>	<u>NO-GO</u>
3. Operated spade.	_____	_____
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.	_____	_____
a. Ensured all attachments and BII are secured properly.		
b. Ensured area was cleaned of any EPA violations.		
5. 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

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

Related

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

Conditions: In a contemporary operational environment (COE) 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: Operate 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. When this task is complete, the vehicle is fully mission capable or maintenance actions required to be performed by other than H8 skill levels (SLs) 1/2 personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Ensure appropriate TM is used.
 - b. Follow procedures outlined in TM for job performance.
2. Prepare vehicle for use of hydraulic equipment.
 - 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.
 - 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.
 - a. Ensure all attachments and equipment are cleaned and stored properly.
 - b. Perform an after-operations PMCS.
5. Follow prescribed safety procedures.
 - a. Follow safety procedures outlined in TM.
 - b. Follow safety procedures outlined in unit standing operating procedure (SOP).

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. | _____ | _____ |
| a. Ensured appropriate TM was used. | | |
| b. Followed procedures outlined in TM for job performance. | | |
| 2. Prepared vehicle for use of hydraulic equipment. | _____ | _____ |
| a. Ensured BII and TMDE were available. | | |
| b. Performed a before-operations PMCS. | | |

Performance Measures	<u>GO</u>	<u>NO-GO</u>
3. Operated main winch.	—	—
a. Followed steps outlined in TM.		
b. Checked equipment for any leaks.		
c. Annotated any deficiencies on appropriate forms, if needed.		
4. Secured hydraulic equipment, as required.	—	—
a. Ensured all attachments and equipment were cleaned and stored properly.		
b. Performed an after-operations PMCS.		
5. 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

AR 385-10

AR 750-1

AR 750-43

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

Recover a Mired Tracked Vehicle
091-H8T-2009

Conditions: In a contemporary operational environment (COE) 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: Accomplish task in accordance with applicable TM's procedures and specifications. All safety precautions were observed. When this task is complete, the vehicle is fully mission capable or maintenance actions required to be performed by other than H8 skill levels (SLs) 1/2 personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Identify which TM will be used.
 - b. Followed steps outlined in TM.
2. Determine method of rigging.
 - a. Follow steps outlined in TM.
 - b. Ensure rigging lines are not defected.
3. Attach cable to the mired vehicle.
 - 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.
 - a. Ensure parking brake is not engaged.
 - b. Inspect tackle and equipment before recovery operation starts.
5. Establish communications between vehicles.
 - 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.
 - a. Ensure proper safety equipment is used.
 - b. Ensure proper hand signals are used during recovery.
7. Secure recovery equipment.
 - 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.

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

1. Selected and used applicable publications.
 - a. Identified which TM was used.
 - b. Followed steps outlined in TM.

GO **NO-GO**

Performance Measures	<u>GO</u>	<u>NO-GO</u>
2. Determined method of rigging.	—	—
a. Followed steps outlined in TM.		
b. Ensured rigging lines were not defected.		
3. Attached cables to the mired vehicle.	—	—
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.	—	—
a. Ensured parking brake was not engaged.		
b. Inspected tackle and equipment before recovery operation starts.		
5. Established communications between vehicles.	—	—
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.	—	—
a. Ensured proper safety equipment was used.		
b. Ensured proper hands signals were used during recovery.		
7. Secured recovery equipment.	—	—
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	Related
AR 385-10	
AR 750-10	
AR 750-43	
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	

Recover an Overturned Tracked Vehicle

091-H8T-2010

Conditions: In a contemporary operational environment (COE) 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, and related references.

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

Standards: Recover the vehicle from the overturned position in accordance with applicable technical publications. When this task is complete, the vehicle is fully mission capable or maintenance actions required to be performed by other than H8 skill levels (SLs) 1/2 personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Ensure appropriate TM is used.
 - b. Follow steps outlined in TM.
2. Position recovery vehicle.
 - a. Follow vehicle operating instructions outlined in TM.
 - b. Carefully position recovery vehicle while adhering to safe driving habits.
3. Attach cable to the overturned vehicle.
 - a. Ensure proper safety equipment is used.
 - b. Inspect cable for broken strands or kinks.
 - c. Remove any loops from cable while it is slack.
 - d. Ensure shackles and pins are properly secured.
4. Prepare recover vehicle for recovery operations.
 - a. Ensure recovery vehicle is upright.
 - b. Set up recovery controls.
5. Establish communication with ground guide.
 - a. Use proper hand signals.
 - b. Keep contact with ground guide at all times.
6. Recover overturned vehicle, ensuring that all safety practices are followed.
 - a. Ensure all observing personnel are out of area of projection.
 - b. Follow overturned vehicle operating instructions outlined in TM.
7. Secure recovery equipment.
 - a. Follow procedures outlined in TM.
 - b. Disconnect and stow rigging equipment.
 - c. Perform after-operations preventive maintenance checks and services (PMCS).
 - d. Annotate any deficiencies on appropriate forms, if needed.

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.	—	—
a. Ensured appropriate TM was used.		
b. Followed steps outlined in TM.		
2. Positioned recovery vehicle.	—	—
a. Followed vehicle operating instruction outlined in TM.		
b. Carefully positioned recovery vehicle while adhering to safe driving habits.		
3. Attached cables to the overturned vehicle.	—	—
a. Ensured proper safety equipment is used.		
b. Inspected cable for broken stands or kinks.		
c. Removed any loops from cable while it is slack.		
d. Ensured shackles and pins are properly secured.		
4. Prepared recovery vehicle for recovery operations.	—	—
a. Ensured recovery vehicle is upright.		
b. Set up recovery controls.		
5. Established communications with ground guide.	—	—
a. Used proper hand signals.		
b. Kept contact with ground guide at all times.		
6. Recovered overturned vehicle, ensuring that all safety practices were followed.	—	—
a. Ensured all observing personnel are out of area of projection.		
b. Followed overturned vehicle operating instructions outlined in TM.		
7. Secured recovery equipment.	—	—
a. Followed procedures outlined in TM.		
b. Disconnected and stowed rigging equipment.		
c. Performed after-operations PMCS.		
d. 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

Related

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

Tow a Tracked Vehicle on Improved/Highway Surface
091-H8T-2011

Conditions: In a contemporary operational environment (COE) given a representative tracked vehicle (M88 series), required materials, general mechanic's tool kit, Field Manual (FM) 5-125, Technical Manual (TM) 9-2350-256-10, TM 9-2350-256-20-1, TM 9-2350-256-24P-1, TM 9-2350-256-24P-2, and related references.

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

Standards: Lift and tow a disabled vehicle in accordance with applicable technical publications, procedures, and specifications. When this task is complete, the vehicle is fully mission capable or maintenance actions required to be performed by other than H8 skill levels (SLs) 1/2 personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Ensured appropriate TM is used.
 - b. Followed steps outlined in TM.
2. Determine method for towing.
 - a. Follow steps outlined in TM.
 - b. Ensure appropriate basic issue items (BII) and test, measurement, and diagnostic equipment (TMDE) are used.
3. Prepare vehicle for towing.
 - a. Ensure parking brake is disengaged.
 - b. Estimate the situation to determine resistance.
 - c. Compute the total resistance.
4. Hook up vehicle for towing.
 - a. Ensure appropriate hook up devices are used.
 - b. Verify procedures while securing hook attachment to disabled vehicle.
5. Follow prescribed safety procedures.
 - a. Follow safety procedures outlined in TM.
 - b. Ensure safety equipment is used.
6. Establish communication between vehicles.
 - a. Observe ground guide while operating vehicle and equipment.
 - b. Ensure proper speed limit is followed.
7. Tow vehicle to predetermined site.
 - a. Maintain proper speed limit.
 - b. Ensure emergency equipment and tow lights are operable.
8. Disconnect vehicle.
 - a. Ensure parking brake is engaged.
 - b. Disconnect emergency equipment and tow lights.
 - c. Store equipment.
 - d. Conduct after-operations preventive maintenance checks and services (PMCS).
 - e. Annotate any deficiencies on appropriate paperwork, if needed.

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.	—	—
a. Ensured appropriate TM was used.		
b. Followed steps outlined in TM.		
2. Determined method for towing.	—	—
a. Followed steps outlined in TM.		
b. Ensured appropriate BII and TMDE were used.		
3. Prepared vehicle for towing.	—	—
a. Ensured parking brake was disengaged.		
b. Estimated the situation to determine resistance.		
4. Hooked up vehicle for towing.	—	—
a. Ensured appropriate hook up devices were used.		
b. Verified procedures while securing hook attachment to disabled vehicle.		
5. Followed prescribed safety procedures.	—	—
a. Followed safety procedures outlined in TM.		
b. Ensured safety equipment was used.		
6. Established communications between vehicles.	—	—
a. Observed ground guide while operating vehicle and equipment.		
b. Ensure proper speed limit was followed.		
7. Towed vehicle to predetermined site.	—	—
a. Maintained proper speed limit.		
b. Ensured emergency equipment and tow lights were operable.		
8. Disconnected vehicle.	—	—
a. Ensured parking brake was engaged.		
b. Disconnected emergency equipment and tow lights.		
c. Stored equipment.		
d. Conducted after-operations PMCS.		
e. Annotated any deficiencies on appropriate paperwork, 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

- FM 5-125
- TM 9-2350-256-10
- TM 9-2350-256-20-1
- TM 9-2350-256-24P-1
- TM 9-2350-256-24P-2

Related

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

Tow of a Tracked Vehicle Cross Country

091-H8T-2012

Conditions: In a contemporary operational environment (COE) given a representative tracked vehicle (M88 series), required materials, general mechanic's tool kit, Field Manual (FM) 5-125, Technical Manual (TM) 9-2350-256-10, and related references.

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

Standards: Tow a disabled vehicle to a predetermined location without causing damage to the equipment or injury to personnel in accordance with applicable publications. When this task is complete, the vehicle is fully mission capable or maintenance actions required to be performed by other than H8 skill levels (SLs) 1/2 personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Ensure appropriate TM is used.
 - b. Verify procedures while performing cross country towing of a tracked vehicle.
2. Follow prescribed safety procedures.
 - a. Follow prescribed safety procedures outlined in TM.
 - b. Follow safety guidelines for specified terrain.
3. Position recovery vehicle.
 - a. Ensure ground guide is used.
 - b. Carefully position recovery vehicle while adhering to safe driving habits.
4. Prepare recovery vehicle for towing.
 - a. Ensure parking brake is not engaged.
 - b. Follow vehicle towing operating instructions outlined in TM.
 - c. Use applicable shackles and recovery equipment.
 - d. Estimate the situation and load resistance.
5. Prepare recovery vehicle for towing operation.
 - a. Ensure appropriate hook up devices are used.
 - b. Follow vehicle towing operating instructions outlined in TM.
6. Attach towing bar to disabled vehicle.
 - a. Inspect towing equipment for missing parts.
 - b. Ensure appropriate tow equipment is used.
7. Operate boom.
 - a. Ensure all personnel are out of area of projection.
 - b. Follow vehicle boom operating instructions outlined in TM.
8. Tow disabled vehicle.
 - a. Ensure no objects are under or around vehicle.
 - b. Maintain appropriate speed while towing vehicle.
9. Disconnect towed vehicle.
 - a. Ensure all safety precautions are used when disconnecting tow equipment.
 - b. Ensure parking brake is engaged on vehicle.
 - c. Conduct after-operations preventive maintenance checks and services (PMCS).
 - d. Annotate any deficiencies on appropriate paperwork, if needed.

Performance Steps

10. Secure recovery equipment.
 - a. Store all recovery equipment in appropriate basic issue items (BII) storage.
 - b. Ensure all equipment is cleaned before storing.
 - c. Ensure all recovery equipment is accounted for.

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. <ol style="list-style-type: none"> a. Ensured appropriate TM was used. b. Verified procedures while performing cross country towing of a tracked vehicle. 	_____	_____
2. Followed prescribed safety procedures. <ol style="list-style-type: none"> a. Followed prescribed safety procedures outlined in TM. b. Followed safety guidelines for specific terrain. 	_____	_____
3. Positioned recovery vehicle. <ol style="list-style-type: none"> a. Ensure ground guide was used. b. Carefully positioned recovery vehicle while adhering to safe driving habits. 	_____	_____
4. Prepared vehicle for towing. <ol style="list-style-type: none"> a. Ensured parking brake was not engaged. b. Followed vehicle towing operating instructions outlined in TM. c. Used applicable shackles and recovery equipment. d. Estimated the situation and load resistance. 	_____	_____
5. Prepared recovery vehicle for towing operation. <ol style="list-style-type: none"> a. Ensured appropriate hook up devices were used. b. Followed vehicle towing operating instructions outlined in TM. 	_____	_____
6. Attached towing bar to disabled vehicle. <ol style="list-style-type: none"> a. Inspected towing equipment for missing parts. b. Ensured appropriate tow equipment was used. 	_____	_____
7. Operated boom. <ol style="list-style-type: none"> a. Ensured all personnel were out of area of projection. b. Followed vehicle boom operating instructions outlined in TM. 	_____	_____
8. Towed disabled vehicle. <ol style="list-style-type: none"> a. Ensured no objects were under or around vehicle. b. Maintained appropriate speed while towing vehicle. 	_____	_____
9. Disconnected towed vehicle. <ol style="list-style-type: none"> a. Ensured all safety precautions were used when disconnecting tow equipment. b. Ensured parking brake was engaged on vehicle. c. Conducted after-operations PMCS. d. Annotated any deficiencies on appropriate paperwork, if needed. 	_____	_____

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

10. Secured recovery equipment.
- a. Stored all equipment in appropriate BII storage.
 - b. Ensured all equipment was cleaned before storing.
 - c. Ensured all recovery equipment was accounted for.

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
TM 9-2350-256-10

Related

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

**Complete Field Expedient Recovery on a Tracked Vehicle
091-H8T-2013**

Conditions: In a contemporary operational environment (COE) 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, and related references.

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

Standards: Recover the vehicle using self/field expedient procedures in accordance with applicable technical publications. When this task is complete, the vehicle is fully mission capable or maintenance actions required to be performed by other than H8 skill levels (SLs) 1/2 personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Identify which TM is used.
 - b. Follow steps outlined in TM.
2. Determine method of field expedient recovery.
 - a. Diagnose vehicle malfunction to determine action to be performed.
 - b. Verify proper tools are available to perform action.
3. Prepare vehicle for field expedient recovery, as required.
 - a. Ensure all safety precautions are used.
 - b. Verify procedures while preparing vehicle for field expedient recovery.
4. Perform vehicle field expedient recovery.
 - a. Obtain proper resistance.
 - b. Check all rigging equipment.
 - c. Coordinate with maintenance support team (MST) to provide technical assistance.
 - d. Ensure all maintenance forms are filled out.
5. Secure recovery equipment.
 - a. Disconnect recovery equipment.
 - b. Verify procedures while securing recovery equipment.
 - c. Ensure all recovery equipment is accounted for.
6. Follow prescribed safety procedures.
 - a. Follow all safety procedures outlined in TM.
 - b. Follow all safety procedures outlined in unit standing operating procedure (SOP).

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

GO **NO-GO**

1. Selected and used applicable publications.
 - a. Identified which TM was used.
 - b. Followed steps outlined in TM.

Performance Measures	<u>GO</u>	<u>NO-GO</u>
2. Determined method of field expedient recovery.	—	—
a. Diagnosed vehicle malfunction to determine action to be performed.		
b. Verified proper tools were available to perform action.		
3. Prepared vehicle for field expedient recovery, as required.	—	—
a. Ensured all safety precautions were used.		
b. Verified procedures while preparing vehicle for field expedient recovery.		
4. Performed vehicle field expedient recovery.	—	—
a. Obtained proper resistance.		
b. Checked all rigging equipment.		
c. Coordinated with MST to provide technical assistance.		
d. Ensured all maintenance forms were filled out.		
5. Secured recovery equipment.	—	—
a. Disconnect recovery equipment.		
b. Verified procedures while securing recovery equipment.		
c. Ensured all recovery equipment was accounted for.		
6. Followed prescribed safety procedures.	—	—
a. Followed all safety precautions outlined in TM.		
b. Followed all 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

Related

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

Skill Level 3

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

Manage a Maintenance Facility Safety Program

091-CLT-3001

Conditions: In a contemporary operational environment (COE) 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 43-0142, and TB 43-180, 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. Ensure all safety references were on hand.
2. Establish and document goals and requirements for a successful shop safety and accident prevention program.
3. Brief and regularly update subordinates on shop safety program.
4. Conduct initial safety inspections.
5. Ensure initial safety concerns and violations are corrected.
6. Conduct scheduled and unscheduled safety inspections.
7. Document safety violations, report the violations as required, and conduct follow-up inspections to ensure violations were corrected.
8. Keep necessary records of safety inspections and accident reports.
9. Ensure Material Safety Data Sheets (MSDSs) were prepared and maintained as required in applicable work areas.

Evaluation Preparation: None

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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.	—	—

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

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
 TB 43-0142
 TB 43-180

Related

Establish a Maintenance Facility Publications/Electronic Technical Manual Library
091-CLT-3002

Conditions: In a contemporary operational environment (COE) 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.
2. Review and update publications library SOP as needed.
3. Ensure that technical publications on hand or on order were the most current in accordance with DA Pamphlet 25-30.
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.
5. Ensure that administrative publications on hand or on order were the most current in accordance with DA Pamphlet 25-30.
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.
7. Prepare DA Form 4569-1-R (Security Assistance Publication Requisition Code Sheet (LRA)) in accordance with DA Pamphlet 25-33.
8. Prepare the required transmittal form in accordance with DA Pamphlet 25-33.
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.
10. Ensure that published changes were posted to applicable publications in accordance with DA Pamphlet 25-40 and publications change instructions.
11. Remove obsolete, rescinded, or superseded publications from library in accordance with DA Pamphlet 25-40 and publications change instructions.
12. Arrange publications in proper order and in a suitable location in accordance with DA Pamphlet 25-40.
13. Label binders used for storing library publications in accordance with AR 25-400-2 and DA Pamphlet 25-40.
14. Notify personnel to return loaned publications to the library in a timely manner in accordance with publications library SOP.
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.

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.	—	—
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 25-1
 AR 25-400-2
 DA FORM 17
 DA FORM 17-1
 DA FORM 4569-1-R
 DA PAM 25-30

Related

References

Required

DA PAM 25-33

DA PAM 25-40

Related

**Establish Maintenance Facilities
091-CLT-3003**

Conditions: In a contemporary operational environment (COE) given a maintenance site, maintenance personnel, applicable equipment, maintenance shop/section standing operating procedure (SOP), Field Manual (FM) 4-30.3, and applicable references.

Standards: Set up a maintenance shop facility suitable for accomplishing necessary maintenance functions in accordance with applicable references.

Performance Steps

1. Ensure SOP and required reference were available.
2. Identify commander's maintenance requirements for accomplishing the unit mission.
3. Set up the maintenance facility in accordance with SOP.

Evaluation Preparation: None

Performance Measures	<u>GO</u>	<u>NO-GO</u>
1. Ensured SOP and required reference were available.	—	—
2. Identified commander's maintenance requirements for accomplishing the unit mission.	—	—
3. Set up the maintenance facility in accordance with 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
FM 4-30.3

Related

**Prepare a Maintenance Facility Standing Operating Procedure
091-CLT-3004**

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

Standards: Prepare a draft copy of 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.
2. Ensure unit policies and commander's guidance were followed.
3. Ensure shop operation policies were adequately addressed.
4. Update the shop SOP, as required.

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 (COE) 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.
2. Establish policies and procedures for the control of tools.
3. Ensure all Department of the Army (DA) Form 2062s (Hand Receipt/Annex Number) were properly filled out and updated.
4. Ensure tools and equipment were inventoried in accordance with applicable references.
5. Ensure tool shortages were annotated on a shortage annex.
6. Ensure subordinates applied property accountability procedures.

Evaluation Preparation: None

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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	Related
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	

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

Conditions: In a contemporary operational environment (COE) 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.
2. Establish key control policies and procedures.
3. Establish key control access rosters.
4. Ensure personnel were aware of their responsibilities for the security and accountability of keys.
5. Ensure key control access rosters were properly maintained and adhered to.

Evaluation Preparation: None

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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

Required
AR 190-13
AR 190-51

Related

**Manage the TMDE Calibration Program
091-CLT-3007**

Conditions: In a contemporary operational environment (COE) 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.
2. Review and update TMDE computer printout list.
3. Ensure preventive maintenance checks and services (PMCS) and inventory of all TMDE and auxiliary equipment are conducted, as required.
4. Ensure TMDE is turned in for calibration in accordance with computer printouts.

Evaluation Preparation: None

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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

Required
AR 750-43
TB 43-180

Related

Supervise Maintenance Operations

091-CLT-3009

Conditions: In a contemporary operational environment (COE) given maintenance personnel, equipment, maintenance facility/site, Army regulation (AR) AR 385-10, AR 600-55, AR 700-4, AR 700-138, AR 710-2, AR 725-50, AR 735-5, AR 750-1, AR 750-43, Department of the Army (DA) Pamphlet 25-30, DA Pamphlet 710-2-1, DA Pamphlet 710-2-2, DA Pamphlet 750-1, DA Pamphlet 750-3, DA Pamphlet 750-8, Field Manual (FM) 4-30.3, standing operating procedures (SOPs), and applicable references.

Standards: Establish and maintain an effective maintenance shop operation in accordance with SOP and applicable references.

Performance Steps

1. Ensure unit maintenance procedures are in accordance with AR 750-1, DA Pamphlet 750-3, and local and major Army command (MACOM) policies.
 - a. Review unit SOPs for maintenance.
 - b. Inform unit personnel of changes in policy and new policy that impacts unit SOP.
2. Provide technical assistance to unit maintenance activities.
 - a. Inspect unit maintenance operations.
 - b. Identify shortcomings.
 - c. Make recommendations for corrective actions.
 - d. Provide training in maintenance procedures.
 - e. Provide training and technical assistance as needed for operations under extreme heat (up to 125 degrees Fahrenheit [F]).
 - (1) Cooling systems. Check coolant level daily. Maintain coolant levels approximately two inches below the radiator overflow pipe if so equipped. Check radiator air passages for obstructions frequently. Check fan belt for proper tension. Check coolant temperature indicators frequently for any indication of overheating.
 - (2) Lubrication. Make sure that lubricants used are as specified for the prevailing ambient temperature in the current lubrication order.
 - (3) Fuel system. When filling the fuel tanks, allow sufficient space for fuel expansion.
 - (4) Batteries. Check electrolyte level frequently. Add distilled water as required to compensate for evaporation.
 - (5) Engine. Kept the external surface of the engine as clean as possible.
 - f. Provide training and technical assistance as needed for operations in dusty or sandy areas.
 - (1) General. If possible, provide shelter for the equipment. Use available natural barriers to shield the equipment from blowing dust or sand.
 - (2) Cleaning. Wipe dust and sand from the equipment frequently. When possible, thoroughly washed down with clean water.
 - (3) Engine. Shorten the service interval for the engine air cleaner and oil filter to compensate for intake of additional dust or dirt. Kept external surface of engine as clean as possible.
 - (4) Fuel systems. Drain sediment from fuel tanks, fuel strainers, and fuel filters frequently. Was particularly careful to prevent dust or dirt from entering the fuel tank/fuel system. Shorten the service intervals for the fuel filters appropriately.
 - (5) Lubrication. Lubrication intervals must be shortened appropriately. Use particular care to keep lubricants from becoming contaminated with dust or dirt.
3. Provide maintenance management to units.
 - a. Review reports (Materiel Condition Status Report [MCSR] and (Unit Level Logistics System-Ground [ULLS-G]).
 - b. Coordinate with higher-level maintenance activities.
 - c. Direct cross-leveling of maintenance assets/workloads.
 - d. Prioritize maintenance efforts of units.

Evaluation Preparation: None

Performance Measures	<u>GO</u>	<u>NO-GO</u>
1. Ensured unit maintenance procedures are in accordance with AR 750-1, DA Pamphlet 750-3, and local and major Army command (MACOM) policies.	—	—
1. Ensured unit maintenance procedures are in accordance with AR 750-1, DA Pamphlet 750-3, and local and MACOM policies.	—	—
a. Reviewed unit SOPs for maintenance.		
b. Informed unit personnel of changes in policy and new policy that impacts unit SOP.		
2. Provided technical assistance to unit maintenance activities.	—	—
2. Provided technical assistance to unit maintenance activities.	—	—
a. Inspected unit maintenance operations.		
b. Identified shortcomings.		
c. Made recommendations for corrective actions.		
d. Provided training in maintenance procedures.		
e. Provided training and technical assistance as needed for operations under extreme heat (up to 125 degrees Fahrenheit [F]).		
(1) Cooled systems. Check coolant level daily. Maintain coolant levels approximately two inches below the radiator overflow pipe if so equipped. Check radiator air passages for obstructions frequently. Check fan belt for proper tension. Check coolant temperature indicators frequently for any indication of overheating.		
(2) Lubricated. Made sure that lubricants used are as specified for the prevailing ambient temperature in the current lubrication order.		
(3) Fueled system. When filling the fuel tanks, allow sufficient space for fuel expansion.		
(4) Batteries. Checked electrolyte level frequently. Add distilled water as required to compensate for evaporation.		
(5) Engine. Kept the external surface of the engine as clean as possible.		
f. Provided training and technical assistance as needed for operations in dusty or sandy areas.		
(1) General. If possible, provide shelter for the equipment. Use available natural barriers to shield the equipment from blowing dust or sand.		
(2) Cleaned. Wiped dust and sand from the equipment frequently. When possible, thoroughly washed down with clean water.		
(3) Engine. Shorten the service interval for the engine air cleaner and oil filter to compensate for intake of additional dust or dirt. Kept external surface of engine as clean as possible.		
(4) Fueled systems. Drain sediment from fuel tanks, fuel strainers, and fuel filters frequently. Was particularly careful to prevent dust or dirt from entering the fuel tank/fuel system. Shorten the service intervals for the fuel filters appropriately.		
(5) Lubrication. Lubricated intervals must be shortened appropriately. Use particular care to keep lubricants from becoming contaminated with dust or dirt.		
3. Provided maintenance management to units.	—	—
3. Provided maintenance management to units.	—	—
a. Reviewed reports (Materiel Condition Status Report [MCSR]).		
b. Coordinated with higher-level maintenance activities.		
c. Directed cross-leveling of maintenance assets/workloads.		
d. Prioritized maintenance efforts of units.		

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 600-55
AR 700-138
AR 700-4
AR 710-2
AR 725-50
AR 735-5
AR 750-1
AR 750-43
DA PAM 710-2-2
DA PAM 750-1
DA PAM 750-3
FM 4-30.3

Related

**Manage Maintenance Information Systems Reports
091-CLT-3012**

Conditions: While stationed in Iraq, your Brigade is given the new Standard Army Maintenance System-1E (SAMS-1E) systems. As the shop foreman for your company, you must identify the Objectives, Functions, and Management Tools of the SAMS-1E. In a contemporary operational environment (COE) given a computer system or systems with Standard Army Maintenance System-Level 1 Enhanced (SAMS-1E) software, database of equipment files, SAMS-1E operator, Automated Information Systems Manual (AISM)-25-L21-AHN-ZZZ-EM, AISM-25-L26-AHO-ZZZ-EM, Department of the Army (DA) Form 2407 (Maintenance Request), DA Pamphlet 750-8, and applicable references.

Standards: Supervise SAMS-1E functions of a field level maintenance shop in accordance with applicable references.

Performance Steps

1. Ensure necessary equipment and publications were available.
2. Ensure SAMS-1E operator was adequately trained.
3. Review the SAMS-1E system and the flow of information to and from system interfaces.
4. Review the purpose and use of SAMS-1E categories and codes.
5. Supervise the processing of maintenance requests (DA Form 2407).
6. Interpret SAMS-1E report to identify maintenance trends and problems.
7. Request and interpret ad hoc reports, as necessary.

Evaluation Preparation: None

Performance Measures	<u>GO</u>	<u>NO-GO</u>
1. Ensured necessary equipment and publications were available.	—	—
2. Accessed the SAMS-1E system.	—	—
3. Reviewed the SAMS-1E system and the flow of information to and from system interfaces.	—	—
4. Reviewed the purpose and use of SAMS-1E categories and codes.	—	—
5. Supervised the processing of maintenance requests (DA Form 2407).	—	—
6. Interpreted SAMS-1E 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	Related
AISM-25-L21-AHN-ZZZ-EM	
AISM-25-L26-AHO-ZZZ-EM	
DA FORM 2407	
DA PAM 750-8	

Subject Area 5: Technical Tasks (SL-3)

**Complete Diagnostics on a Pressure Timed (PT) Injection System on a Diesel Engine
091-91H-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 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: Inspect, test, and adjust 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), the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Review work request.
 - 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.
 - a. Identify which TM is used.
 - b. Follow steps outlined in TM.
3. Perform initial inspection.
 - a. Follow steps outlined in TM for specified job.
 - b. Annotate any deficiencies on appropriate forms.
4. Select and use proper tools.
 - 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.
 - 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.
 - 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.
 - a. Follow steps outlined in TM.
 - b. Ensure adequate personnel are present to perform task.
8. Perform final inspection of injection system.
 - 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.

Performance Steps

- 9. Maintain tools and equipment.
 - a. Ensure all tools are accounted for.
 - b. Ensure tools and equipment are cleaned and serviceable.
- 10. Complete DA Form 5988-E, as required.
 - 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

Performance Measures

	<u>GO</u>	<u>NO-GO</u>
1. Reviewed work request. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> a. Identified which TM was used. b. Followed steps outlined in TM. 	—	—
3. Performed initial inspection. <ul style="list-style-type: none"> a. Followed steps outlined in TM for specified job. b. Annotated any deficiencies on appropriate forms. 	—	—
4. Selected and used proper tools. <ul style="list-style-type: none"> a. Used only tools supplied in BII. b. Used appropriate tool designed for specified job. 	—	—
5. Practiced shop safety and maintenance discipline. <ul style="list-style-type: none"> a. Followed guidelines in unit SOP. b. Ensured proper safety equipment was used. c. Conducted risk assessment. 	—	—
6. Ensured task was within shop capability. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> a. Followed steps outlined in TM. b. Ensured adequate personnel were present to perform task. 	—	—
8. Performed final inspection of injection system. <ul style="list-style-type: none"> 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. 	—	—
9. Maintained tools and equipment. <ul style="list-style-type: none"> a. Ensured all tools were accounted for. b. Ensured tools and equipment were cleaned and serviceable. 	—	—
10. Completed DA Form 5988-E, as required. <ul style="list-style-type: none"> 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

**Complete Diagnostics on Unit Type Injection System on a Diesel Engine
091-91H-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), PAM 738-751, PAM 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: Inspect, test, and adjust 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), the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Review work request.
 - 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.
 - a. Identify which TM is used.
 - b. Follow steps outlined in TM.
3. Perform initial inspection.
 - a. Follow steps outlined in TM for specified job.
 - b. Annotate any deficiencies on appropriate forms.
4. Select and use proper tools.
 - 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.
 - 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.
 - a. Follow steps outlined in TM.
 - b. Fill out work request on DA Form 2407 for higher echelon, if required.
7. Perform final inspection of injection system.
 - 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.
 - 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.
 - a. Ensure all tools are accounted for.
 - b. Ensure tools and equipment are cleaned and serviceable.

Performance Steps

10. Complete DA Form 5988-E, as required.
 - 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

Performance Measures	<u>GO</u>	<u>NO-GO</u>
1. Reviewed work request. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Identified which TM was used. b. Followed steps outlined in TM. 	—	—
3. Performed initial inspection. <ol style="list-style-type: none"> a. Followed steps outlined in TM for specified job. b. Annotated any deficiencies on appropriate forms. 	—	—
4. Selected and used proper tools. <ol style="list-style-type: none"> a. Used only tools supplied in BII. b. Used appropriate tool designed for specified job. 	—	—
5. Practiced shop safety and maintenance discipline. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Ensured all tools were accounted for. b. Ensured tools and equipment were cleaned and serviceable. 	—	—
10. Completed DA Form 5988-E, as required. <ol style="list-style-type: none"> 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

**Complete Diagnostics on Distributor Type Injection System on a Diesel Engine
091-91H-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, PAM 738-751, PAM 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: Perform diagnostics on the distributor type injection system in accordance with applicable TM procedures and specifications. When this task is complete, the equipment or end item is fully mission capable or required maintenance actions to be performed by other than 91H personnel have been identified.

Performance Steps

1. Review work request.
 - 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.
 - a. Identify which TM will be used.
 - b. Follow steps outlined in TM.
3. Perform initial inspection.
 - a. Follow steps outlined in TM for specified job.
 - b. Annotate any deficiencies on appropriate forms.
4. Select and use proper tools.
 - a. Use tools supplied in basic issue items (BII).
 - b. Use appropriate tools designed for specified job.
5. Practice shop safety and maintenance discipline.
 - 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.
 - 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.
 - 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.
 - 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.
 - a. Ensure all tools are accounted for.
 - b. Ensure tools and equipment are cleaned and serviceable.

Performance Steps

10. Complete DA Form 5988-E, as required.
 - a. Annotate faults corrected, as required.
 - b. Ensure supervisor signs in appropriate block.
 - c. Ensured paperwork was turned-in to Unit Level Logistics System (ULLS) clerk.

Evaluation Preparation: None

Performance Measures	<u>GO</u>	<u>NO-GO</u>
1. Reviewed work request. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Identified which TM was used. b. Followed steps outlined in TM. 	—	—
3. Performed initial inspection. <ol style="list-style-type: none"> a. Followed steps outlined in TM for specified job. b. Annotated any deficiencies on appropriate forms. 	—	—
4. Selected and used proper tools. <ol style="list-style-type: none"> a. Used tools supplied in BII. b. Used appropriate tools designed for specified job. 	—	—
5. Practiced shop safety and maintenance discipline. <ol style="list-style-type: none"> a. Followed guidelines outlined in unit SOP. b. Ensured proper safety equipment was used. 	—	—
6. Ensured task was within shop capability. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Ensured all tools were accounted for. b. Ensured tools and equipment were cleaned and serviceable. 	—	—
10. Completed DA Form 5988-E, as required. <ol style="list-style-type: none"> 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

Complete Diagnostics on an Automatic Transmission on a Tracked Vehicle
091-91H-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, PAM 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: Inspect, test, and adjust the transmission in accordance with applicable technical publications, procedures, and specifications. Following these procedures the transmission is serviceable and ready for installation in a vehicle. When this task is complete, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Review work request.
 - 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.
 - 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.
 - 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.
 - a. Follow guidelines outlined in standing operating procedure (SOP).
 - b. Follow guidelines outlined in motor pool.
5. Perform diagnostics on automatic transmission.
 - 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.
 - 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.
7. Perform final inspection of automatic transmission.
 - a. Conduct an after PMCS.
 - b. Annotate any deficiencies on appropriate forms that would hinder mission readiness.
8. Maintain tools and equipment.
 - 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.
 - 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

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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. Conducted PMCS in accordance with TM.		
b. Annotated any deficiencies on appropriate forms.		
3. Selected and used proper tools.	_____	_____
a. Used only tools supplied in BII.		
b. Ensured tools were appropriate for specified job.		
4. Practiced shop safety and maintenance discipline.	_____	_____
a. Followed guidelines outlined in SOP.		
b. Followed guidelines outlined in motor pool.		
5. Performed diagnostics on automatic transmission.	_____	_____
a. Checked transmission fluid level.		
b. Checked seals, gaskets and o-rings, if required.		
c. Ensured sensors were serviceable.		
6. Ensured parts were identified and requisitioned as required.	_____	_____
a. Ensured parts were replaced, if necessary.		
b. Ordered any part that was not on hand on appropriate form.		
c. Ensured part was tagged and labeled for turn-in.		
7. Performed final inspection of automatic transmission.	_____	_____
a. Conducted an after PMCS.		
b. Annotated any deficiencies on appropriate forms that would hinder mission readiness.		
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

Related

References

Required

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

Complete Diagnostics on Electrical Circuits on a Tracked Vehicle
091-91H-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, PAM 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, TM 9-2815-242-34, and TM 9-2920-225-34.

Standards: Perform diagnostics on a selected tracked vehicle in accordance with applicable technical publications procedures and specifications. When this task is complete, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Review work request.
 - 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.
 - 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.
 - a. Use tools designed for specified job.
 - b. Ensure tools are serviceable.
4. Practice shop safety and maintenance discipline.
 - 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.
 - a. Follow steps outlined in TM.
 - b. Ensure proper test equipment is used.
6. Identify and requisition repair parts, if required.
 - 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.
 - a. Conduct an after preventive maintenance checks and services (PMCS).
 - b. Ensure all components are connected properly.
8. Maintain tools and equipment.
 - 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.
 - 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

Performance Measures	<u>GO</u>	<u>NO-GO</u>
1. Reviewed work request.	—	—
a. Ensured correct vehicle was on appropriate forms.		
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/replaced and test electrical circuit.	—	—
a. Used tools designed for specified job.		
b. Ensured tools were serviceable.		
4. Practiced shop safety and maintenance discipline.	—	—
a. Followed steps outlined in TM.		
b. Ensured proper safety equipment was used, if required.		
c. Followed guidelines outlined in motor pool.		
5. Diagnosed electrical circuit 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 final inspection of electrical circuit.	—	—
a. Conducted an after PMCS.		
b. Ensured all components were connected properly.		
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

- Required**
 AR 385-10
 DA FORM 2404
 DA FORM 5988-E
 DA PAM 750-8

Related

References

Required

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 9-2815-220-24
TM 9-2815-242-34
TM 9-2920-225-34

Related

**Complete Diagnostics on Hydraulic System on a Tracked Vehicle
091-91H-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), DA Form 2407 (Maintenance Request), Army regulation (AR) 385-10, PAM 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: Inspect, test, and adjust the hydraulic system in accordance with applicable technical publications procedures and specifications. When this task is complete, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Review work request.
 - 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.
 - a. Identify correct technical manual (TM) for specified job.
 - b. Follow steps outlined in technical manual.
 - c. Annotate any deficiencies on appropriate forms.
3. Ensure proper tools are available to inspect, repair/replace and test the hydraulic systems.
 - a. Use tools designed for specified job.
 - b. Ensure tools are serviceable.
4. Practice shop safety and maintenance discipline.
 - 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.
 - a. Follow steps outlined in TM.
 - b. Ensure proper test equipment is used.
6. Identify and requisition repair parts, if required.
 - 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.
 - 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.
8. Ensure maintenance forms are completed, as required.
 - a. Annotate any faults corrected.
 - b. Ensure supervisor signs in appropriate block.
 - c. Ensure paperwork is turned in to Unit Level Logistics System (ULLS) clerk.

Performance Steps

9. Ensure tools and equipment are properly maintained.
 - 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

Performance Measures	<u>GO</u>	<u>NO-GO</u>
1. Reviewed work request. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Used tools designed for specified job. b. Ensured tools were serviceable. 	—	—
4. Practiced shop safety and maintenance discipline. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Followed steps outlined in TM. b. Ensured proper test equipment was used. 	—	—
6. Identified and requisitioned repair parts, if required. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Conducted an after PMCS. b. Conducted final inspection to ensure hydraulic system was fully mission capable. c. Ensured components were connected properly. 	—	—
8. Ensured maintenance forms were completed, as required. <ol style="list-style-type: none"> a. Annotated any faults corrected. b. Ensured supervisor signed in appropriate block. c. Ensured paperwork was turned in to ULLS clerk. 	—	—
9. Ensured tools and equipment were properly maintained. <ol style="list-style-type: none"> 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
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

**Complete Battlefield Damage Assessment and Repair (BDAR) on a Tracked Vehicle
091-91H-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), PAM 750-8, PAM 738-751, Department of Defense (DD) Form 1577 (Unserviceable (Condemned) Tag - Materiel) , DD Form 1577-1 (Unserviceable (Condemned) Label - Materiel), DD Form 1577-2 (Unserviceable (Repairable) Tag - Materiel), DD Form 1577-3 (Unserviceable (Repairable) Label - Materiel), 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: Perform 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. When this task is complete, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Identify which TM will be used.
 - b. Follow steps outlined in TM.
2. Select and use correct tools and BDAR kit.
 - a. Use only tools supplied in BII and BDAR kit.
 - b. Ensure all tools are serviceable.
3. Follow prescribed safety procedures.
 - a. Follow safety guidelines outlined TM.
 - b. Ensure proper safety equipment is used.
4. Perform BDAR initial inspection.
 - a. Ensure assessment and safety checks are made.
 - b. Perform self test.
5. Diagnose vehicle malfunction to determine maintenance action to be performed.
 - 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.
 - a. Fill out appropriate forms, as required.
 - b. Annotate any deficiencies on appropriate forms.
7. Complete The Army Maintenance Management System (TAMMS) forms, as required.
 - a. Annotate faults corrected, if required.
 - b. Ensure paperwork is turned in to Unit Level Logistics System (ULLS) clerk.
8. Maintain tools and equipment.
 - 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. Selected and used applicable publications. a. Identified which TM was used. b. Followed steps outlined in TM.	—	—
2. Selected and used correct tools and BDAR kit. a. Used only tools supplied in BII and BDAR kit. b. Ensured all tools were serviceable.	—	—
3. Followed prescribed safety procedures. a. Followed safety guidelines outlined TM. b. Ensured proper safety equipment was used.	—	—
4. Performed BDAR initial inspection. a. Ensured assessment and safety checks were made. b. Performed self test.	—	—
5. Diagnosed vehicle malfunction to determine maintenance action to be performed. a. Tested equipment with the organization/direct support maintenance equipment. b. Ensured equipment was within shop capabilities. c. Filled out work request DA Form 2407, if required.	—	—
6. Verified repair parts were identified and requisitioned as required. a. Filled out appropriate form to requisition part. b. Annotated any deficiencies on appropriate forms.	—	—
7. Completed TAMMS forms, as required. a. Annotated faults corrected, if required. b. Ensured paperwork was turned in to ULLS clerk.	—	—
8. Maintained tools and equipment. a. Ensured all tools were accounted for. b. Ensured tools and equipment were cleaned.	—	—

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

**Complete Diagnostic on the Power Distribution System on a Tracked Vehicle
091-91H-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), PAM 750-8, PAM 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: Perform 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 is complete, the vehicle or equipment is fully mission capable or required maintenance actions by other than 91H personnel has been identified.

Performance Steps

1. Select and use applicable publication.
 - a. Identify which TM will be used.
 - b. Follow steps outlined in TM.
2. Select and used correct tools.
 - a. Use tools only supplied in basic issue items (BII).
 - b. Ensured applicable tools were serviceable.
3. Follow prescribed safety procedures.
 - a. Follow safety guidelines outlined in TM.
 - b. Follow safety precautions outlined in unit standing operating procedure (SOP).
4. Perform diagnostic test.
 - a. Follow steps outlined in TM.
 - b. Ensure proper test equipment is used.
5. Identify and requisition any repair parts.
 - 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.
 - a. Conduct a preventive maintenance checks and services (PMCS).
 - b. Ensure all components are connected properly.
 - c. Verify fault was corrected, if required.
7. Maintain tools and equipment.
 - a. Ensure all tools and equipment are cleaned.
 - b. Ensure all tools are accounted for.
 - c. Turn in any broken tools.
8. Complete DA From 5988-E, as required.
 - a. Annotate any faults corrected on appropriate form.
 - b. 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. | | |

Performance Measures	<u>GO</u>	<u>NO-GO</u>
2. Selected and used correct tools.	—	—
a. Used tools only supplied in BII.		
b. Ensured applicable tools were serviceable.		
3. Followed prescribed safety procedures.	—	—
a. Followed safety guidelines outlined in TM.		
b. Followed safety precautions outlined in unit SOP.		
4. Performed diagnostic test.	—	—
a. Followed steps outlined in TM.		
b. Ensured proper test equipment was used.		
5. Identified and requisitioned any repair parts.	—	—
a. Replaced any broken or worn parts that are on hand.		
b. Ordered any part that was not on hand on appropriate form.		
c. Tagged and labeled any unserviceable part for turn in.		
6. Performed a final operational check to verify part was replaced to specifications.	—	—
a. Conducted a PMCS.		
b. Ensured all components were connected properly.		
c. Verified fault was corrected, if required.		
7. Maintained tools and equipment.	—	—
a. Ensured all tools and equipment were cleaned.		
b. Ensured all tools were accounted for.		
c. Turned in any broken tools.		
8. Completed DA Forms 5988-E, as required.	—	—
a. Annotated any faults corrected on appropriate form.		
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 2407
 DA FORM 5988-E
 DA PAM 738-751
 DA PAM 750-8
 FM 4-30.3
 TM 750-245-4
 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 9-2520-281-34
 TM 9-2815-219-34
 TM 9-2815-242-34

Related

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

Complete Diagnostics on a Diesel Engine
091-91H-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: Perform 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 is complete, the vehicle or equipment is fully mission capable or required maintenance actions by other than 91H personnel has been identified.

Performance Steps

1. Review work request.
 - 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.
 - 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.
 - a. Use tools designed for specified job.
 - b. Ensure tools are serviceable.
4. Perform initial inspection.
 - 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.
 - 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.
 - 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.
 - a. Follow safety guidelines outlined in motor pool.
 - b. Follow steps outlined in unit standing operating procedure (SOP).
8. Perform a final inspection to ensure the diesel engines are fully mission capable.
 - a. Conduct a preventive maintenance checks and services (PMCS).
 - b. Ensure components are connected properly.
9. Ensure maintenance forms are completed, as required.
 - 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.

Performance Steps

10. Ensure tools and equipment are properly maintained.
 - 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

Performance Measures	<u>GO</u>	<u>NO-GO</u>
1. Reviewed work request. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Used tools designed for specified job. b. Ensured tools were serviceable. 	—	—
4. Performed initial inspection. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Followed safety guidelines outlined in motor pool. b. Followed steps outlined in unit standing operating procedure (SOP). 	—	—
8. Performed a final inspection to ensure the diesel engines were fully mission capable. <ol style="list-style-type: none"> a. Conducted a PMCS. b. Ensured components were connected properly. 	—	—
9. Ensured maintenance forms were completed, as required. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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

Complete Diagnostics on a Fuel System on a Tracked Vehicle
091-91H-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: Perform 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 is complete, the vehicle or equipment is fully mission capable or required maintenance actions by other than 91H personnel has been identified.

Performance Steps

1. Review work request.
 - 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.
 - 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.
 - a. Use tools designed for specified job.
 - b. Ensure tools are serviceable.
4. Perform initial inspection.
 - 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.
 - 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.
 - 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.
 - a. Follow prescribed safety procedures outlined in TM.
 - b. Follow prescribed safety procedures outlined in unit standing operating procedure (SOP).
8. Perform a final inspection to ensure the fuel system is fully mission capable.
 - 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.
 - a. Ensure all faults are annotated accordingly.
 - b. Ensure forms are turned in to Unit Level Logistics System (ULLS) clerk.

Performance Steps

10. Ensure tools and equipment are properly maintained.
 - 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Used tools designed for specified job. b. Ensured tools were serviceable. 	—	—
4. Performed initial inspection. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> a. Conducted a PMCS. b. Operated vehicle according to steps outlined in technical manual. c. Ensured all lines were connected properly. 	—	—
9. Ensured maintenance forms were completed, as required. <ol style="list-style-type: none"> a. Ensured all faults were annotated accordingly. b. Ensured forms were turned in to ULLS clerk. 	—	—
10. Ensured tools and equipment were properly maintained. <ol style="list-style-type: none"> a. Ensured all tools were accounted for. b. Ensured tools and equipment were cleaned. 	—	—

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

Complete Diagnostics on Steering / Braking System on a Tracked Vehicle
091-91H-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: Perform diagnostics on a tracked vehicle steering and brake system in accordance with applicable TM procedures and specifications. When this task is complete, the equipment or end item is fully mission capable, or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Review work request.
 - a. Ensure fault is annotated on appropriate form.
 - b. Ensure work is within shop capabilities.
2. Perform initial inspection.
 - 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.
 - a. Ensure correct TM is available for the job.
 - b. Follow steps outlined in TM.
4. Ensure proper tools are available for the job.
 - a. Use tools designed for specified job.
 - b. Ensure tools are serviceable.
5. Ensure parts are identified and requisitioned, as required.
 - 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.
 - 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.
 - 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.
8. Ensure maintenance forms are completed, as required.
 - 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.
 - 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

Performance Measures	<u>GO</u>	<u>NO-GO</u>
1. Reviewed work request. a. Ensured fault was annotated on appropriate form. b. Ensured work was within shop capabilities.	—	—
2. Performed initial inspection. a. Conducted a PMCS. b. Checked vehicle for any leaks. c. Annotated any deficiencies on DA Form 2404 and DA Form 5988-E. d. Determined maintenance action to be performed.	—	—
3. Ensured applicable publications were available. a. Ensured correct TM was available for the job. b. Followed steps outlined in TM.	—	—
4. Ensured proper tools were available to perform this task. a. Used tools designed for specified job. b. Ensured tools were serviceable.	—	—
5. 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 appropriate forms.	—	—
6. Ensured all safety precautions were followed. a. Followed prescribed safety guidelines outlined in TM. b. Followed safety guidelines outlined in unit SOP.	—	—
7. Diagnosed steering/brake system faults and determined maintenance actions to be performed. a. Followed steps outlined in TM. b. Conducted a functions test on specified job. c. Ensured all lines were connected properly. d. Performed a final inspection.	—	—
8. Ensured maintenance forms were completed, as required. a. Ensured all faults were annotated accordingly. b. Ensured forms were turned in to ULLS clerk.	—	—
9. Maintained tools and equipment. 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	Related
AR 385-10	
AR 750-1	
AR 750-43	
DA FORM 2404	
DA FORM 5988-E	
TM 9-2350-256-34	

**Complete Diagnostics on the Auxiliary Power Unit (APU) on a Tracked Recovery Vehicle
091-91H-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), PAM 750-8, and technical manual (TM) 9-2350-256-10.

Standards: Perform diagnostics on an M88 series tracked vehicle Auxiliary Power Unit (APU) in accordance with the applicable technical publications procedures and specifications. When this task is complete, the vehicle is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Select and use applicable publications.
 - a. Identify which TM to be used.
 - b. Follow steps outlined in TM.
2. Select and use correct tools and TMDE.
 - a. Ensure all tools are available.
 - b. Ensure tools are used for specified job.
3. Follow prescribed safety procedures.
 - a. Follow safety guidelines in technical manual.
 - b. Follow safety guidelines outlined in unit standing operating procedure (SOP).
4. Practice maintenance discipline.
 - a. Follow guidelines outlined in motor pool.
 - b. Ensure proper safety equipment is used.
5. Inspect APU.
 - a. Ensure there are not leaks.
 - b. Ensure all lines are connected.
 - c. Ensure all bolts are present.
6. Perform diagnostic procedures on APU.
 - 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.
 - 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.
8. Maintain tools and equipment.
 - a. Ensure all tools are accounted for.
 - b. Ensure tools and equipment are cleaned.
9. Complete DA Form 5988-E, as required.
 - 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

Complete Engine Tune-up Procedures on a Diesel Engine
091-91H-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: Tune up the engine assembly in accordance with applicable technical manual procedures and specifications. When this task is complete, the equipment or end item is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Review work request.
 - 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.
 - 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.
 - a. Ensure applicable tools are in basic issue items (BII).
 - b. Ensure tools are serviceable.
4. Ensure parts are identified and requisitioned, as required.
 - 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.
 - a. Follow prescribed safety guidelines in TM.
 - b. Follow safety guidelines outlined in unit standing operating procedure (SOP).
6. Perform a final inspection.
 - 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.
 - 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.
 - a. Annotate any new deficiencies on appropriate forms.
 - b. 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. 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

Required

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

Related

Complete Recovery Operation on a Tracked Vehicle
091-91H-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: Perform recovery operation in accordance with applicable references. When this task is complete, the equipment or end item is fully mission capable or required maintenance actions to be performed by other than 91H personnel has been identified.

Performance Steps

1. Review work request/ commander's directive.
 - 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.
 - 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.
 - 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.
 - 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.
 - a. Follow safety guidelines outlined in TM.
 - b. Ensure safety equipment is available.
6. Determine method of rigging.
 - a. Follow steps outlined in TM.
 - b. Ensure parking brake is not engaged.
 - c. Connect emergency equipment and tow lights.
 - d. Connect towed vehicle.
7. Establish communication between vehicles.
 - a. Observe ground guide while operating recovery equipment.
 - b. Ensure proper speed limit is followed.
 - c. Tow vehicle to predetermined site.
8. Disconnect vehicle.
 - 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.
 - 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

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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.		
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

Related

References

Required

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)

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

Conditions: In a contemporary operational environment (COE) 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 the 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

**Supervise Platoon/Section Administrative Procedures
091-CLT-4002**

Conditions: In a contemporary operational environment (COE) 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>GO</u>	<u>NO-GO</u>
1. Established files using the Army Records Information Management System (ARIMS). <ol style="list-style-type: none"> a. Prepared file folders and guides. b. Arranged file folders and guides. c. Prepared file drawer labels. d. Prepared a list of file numbers. 	—	—
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.	—	—
6. Processed a chapter action. <ol style="list-style-type: none"> 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.	—	—

Performance Measures

	<u>GO</u>	<u>NO-GO</u>
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 (COE) given a situation requiring stress management and Field Manual (FM) 6-22.5.

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 6-22.5

Related

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

Conditions: In a contemporary operational environment (COE) 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>GO</u>	<u>NO-GO</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"> a. Notified appropriate parent and supported units to resolve any problems. b. Addressed problems in After Action Review (AAR). 	___	___

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 (COE) 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)-25-L21-AHN-ZZZ-EM, AISM-25-L26-AHO-ZZZ-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

Required	Related
AISM-25-L21-AHN-ZZZ-EM	
AISM-25-L26-AHO-ZZZ-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 (COE) 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.

Performance Measures

	<u>GO</u>	<u>NO-GO</u>
1. Assessed the combat situation.	___	___
2. Determined 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. Organized resources to provide needed support.	___	___
4. Followed 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.		

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 (COE) given Field Manual (FM) 4-30.3, higher headquarters standing operating procedure (SOP), and commander's guidance.

Standards: Prepare 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 (COE) 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"> a. Reviewed the operational overlay. b. Conducted a map reconnaissance of the route and destination. 	—	—
6. Ensured the company maintenance team, recovery support team, and/or maintenance support teams 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	Related
FM 1-02	
FM 3-34.170	
FM 4-30.3	

Conduct a Route Reconnaissance for a Maintenance Mission

091-CLT-4023

Conditions: In a contemporary operational environment (COE) 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"> a. Potential problem areas (that is, possible enemy contact, trafficability, and so forth). b. Possible bypasses and alternate routes. 	—	—
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 (COE) 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.

Performance Measures	<u>GO</u>	<u>NO-GO</u>
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	Related
FM 3-34.170	
FM 4-30.3	

Manage Battlefield Maintenance Support

091-CLT-4025

Conditions: In a contemporary operational environment (COE) 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.	—	—
a. Offensive operation.		
b. Defensive operation.		
2. Planned for and executed appropriate maintenance support.	—	—
a. Identified requirements.		
b. Identified available resources.		
(1) Personnel and skills.		
(2) Publications.		
(3) Time.		
(4) Facilities.		
(5) Test, measurement, and diagnostic equipment (TMDE) and tools.		
(6) Parts.		
c. Managed resources for maximum return, with priority on the following:		
(1) Maintenance support forward.		
(2) Commander's guidance.		

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

Conditions: In a contemporary operational environment (COE) given Field Manual (FM) 4-30.3, 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>GO</u>	<u>NO-GO</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"> a. DS maintenance. b. Evacuation. c. Repair parts supply. d. Repairable exchange (RX). e. Technical assistance. 	—	—

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	Related
FM 4-30.3	

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

Conditions: In a contemporary operational environment (COE) 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"> a. Focused efforts toward repairing systems for current battle or start of next battle. b. Fixed 4 to 6 hour jobs at unit maintenance collection point (UMCP). c. Evacuated other equipment to brigade MCP or farther rear location. d. Maximized battlefield damage assessment repair (BDAR), cannibalization, and controlled exchange at central MCP. 	—	—
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

Required
FM 4-30.3

Related

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

Conditions: In a contemporary operational environment (COE) 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.	—	—
7. Provided maintenance support during stability and support operations (SASO). <ol style="list-style-type: none"> a. Peace operations. b. Humanitarian operations. c. Disaster relief operations. 	—	—
8. Provided maintenance support in adverse conditions. <ol style="list-style-type: none"> a. Desert operations. b. Cold weather operations. c. Jungle operations. 	—	—

Performance Measures

GO NO-GO

- 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

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

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

Before evaluation:

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

During evaluation:

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

HANDS-ON EVALUATION For use of this form, see STP 11-25S14-SM-TG; the proponent agency is TRADOC.		DATE 28 January 2011	
TASK TITLE Maintain Electrical System on a Tracked Vehicle		TASK NUMBER 091-91H-1017	
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 TMDE	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
3.	Follow prescribed safety procedures	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
4.	Practice shop safety and maintenance discipline	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
5.	Verify work request	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
6.	Conduct troubleshooting of tracked vehicle electrical system and components	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
7.	Replace tracked vehicle electrical system components, as required	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
8.	Perform a final operational check to verify part was replaced to specification	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
9.	Maintain tools and equipment	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
10.	Complete The Army Maintenance Management System (TAMMS) forms, as required	<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
EVALUATOR'S NAME SGT(P) Shane Lemus		UNIT C TRP 4-9 CAV, 2nd BCT	
SOLDIER'S NAME SPC Cesar Huizar		STATUS <input checked="" type="checkbox"/> GO <input type="checkbox"/> NO GO	

DA FORM 5164-R, SEP 1985

EDITION OF DEC 82 IS OBSOLETE

APD PE v2.01

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

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

Before evaluation:

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

During evaluation:

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

After evaluation:

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

GLOSSARY

Section I

Acronyms & Abbreviations

*ALC	Advanced Leaders Course
*SLC	Senior Leaders Course
AAR	after-action review; after-action report
AC	Active Component
ACCP	Army Correspondence Course Program
AIMS	automated information systems manual
AIT	Advanced Individual Training
AMC	Army Materiel Command
AMSS	Army Materiel Status System
AN	annually
app	appendix
APU	Auxiliary Power Unit
AR	Army regulation
ARTEP	Army Training and Evaluation Program
BA	biannually
BDAR	battle damage assessment and repair
BII	basic issue items
BW	biweekly
CASCOM	Combined Arms Support Command
CLT (1)	common logistic task
COEI	components of end item
CTS	contact test set
CTT	common task test
DA Form	Department of the Army form
DA PAM	Department of the Army pamphlet

DS	direct support
FM (1)	field manual
GS	General Support
HAZMAT	hazardous material
HQ	headquarters
MACOM	major Army command
MCP	maintenance collection point
MCSR	Materiel Condition Status Report
METL	Mission Essential Task List
MHE	materials handling equipment
MO	monthly
MOS	military occupational specialty
MSDS	Material Safety Data Sheet
MTP	mission training plan
NBC	nuclear, biological, and chemical
NCO	noncommissioned officer
NCOER	Noncommissioned Officer Evaluation Report
NMC	non-mission capable
OPORD	operations order
ORF	operational readiness float
pam	pamphlet
PL	preservative lubricant
PLL	Prescribed Load List
PMCS	preventive maintenance checks and services
POL	petroleum, oils, and lubricants
QMP	Qualitative Management Program
QT	quarterly
RDL	Reimer Digital Library

RF	Radio Frequency
S	safe
SA (1)	semiannual
SAMS	Standard Army Maintenance System
SAMS-1	Standard Army Maintenance System-Level 1
SAMS-2	Standard Army Maintenance System-Level 2
SARSS	Standard Army Retail Supply System
SARSS-O	Standard Army Retail Supply System-Objective
SASO	stability and support operations
SC	supply catalog
sec	second
SL	skill level
SM/TG	Soldier's Manual/Trainer's Guide
SMCT	Soldier's manual of common tasks
SOP	standing operating procedure
STP	Soldier training publication
TAMMS	The Army Maintenance Management System
TB	technical bulletin
TBD	to be developed
TC (1)	training circular
TM	technical manual
TMDE	test, measurement, and diagnostic equipment
TRADOC	Training and Doctrine Command
ULLS	Unit Level Logistics System
ULLS-G	Unit Level Logistics System-Ground
UMCP	unit maintenance collection point
UMCP	unit maintenance collection point
UNIT	Trained in the Unit

STP 9-91H14-SM-TG

US	United States
USA	United States Army
USAMC	United States Army Materiel Command
WK	weekly

REFERENCES

Required Publications

Required publications are sources that users must read in order to understand or to comply with this publication.

Army Regulations

AR 190-13	The Army Physical Security Program 30 September 1993
AR 190-51	Security of Unclassified Army Property (Sensitive and Non-sensitive) 30 September 1993
AR 220-1	Army Unit Status Reporting and Force Registration - Consolidated Policies 15 April 2010
AR 25-1	Army Knowledge Management and Information Technology 4 December 2008
AR 25-400-2	The Army Records Information Management System (ARIMS) 2 October 2007
AR 385-10	The Army Safety Program 23 August 2007
AR 385-40	SUPERCEDED BY AR 385-10 Accident Reporting and Records 1 November 1994
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AR 40-5	Preventive Medicine 25 May 2007
AR 600-55	The Army Driver and Operator Standardization Program (Selection, Training, Testing, and Licensing) 18 June 2007
AR 600-8-2	Suspension of Favorable Personnel Actions (Flags) 30 October 1987
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AR 623-3	Evaluation Reporting System 15 May 2006
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AR 700-138	Army Logistics Readiness and Sustainability 26 February 2004
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AR 710-2	Supply Policy Below the National Level 28 March 2008
AR 725-50	Requisition, Receipt, and Issue System 15 November 1995
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DA PAM 750-8	The Army Maintenance Management System (TAMMS) Users Manual 22 August 2005
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DA PAM 750-1	Leader's Unit Level Organizational Maintenance Handbook 15 February 1994

Field Manuals

FM 1-02	OPERATIONAL TERMS AND GRAPHICS 21 September 2004
FM 3-25.26	MAP READING AND LAND NAVIGATION 18 January 2005
FM 3-34.170	Engineer Reconnaissance 25 March 2008
FM 4-0	Sustainment 30 April 2009
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FM 6-22.5	Combat and Operational Stress Control Manual for Leaders and Soldiers 18 March 2009

Lubrication Orders

LO 5-5420-226-12	Launcher, M48A5 Tank Chassis, Transporting for Bridge, Armored Vehicle Launched, Scissoring Type, Class 60 (This Item is Included on EM 0044) 31 August 1992
LO 9-1450-646-12	Carrier, Multiple Launch Rocket System, M993 (NSN 2350-01-091-5405) (Reprinted W/Basic Incl C1-3) (This Item is Included on EM 0062) 17 March 1992
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TM 9-2350-256-20-1	Unit Maintenance Manual for Recovery Vehicle, Full Tracked: Medium, M88A1 (NSN: 2350-00-122-6826) (EIC: AQA) Volume 1, 27 November 2005
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TM 9-2350-261-10-HR	Hand Receipt Covering Contents of Components of End Item, Basic Issue Items and Additional Authorization List for Carrier, Personnel, Full Tracked, Armored, M113A2 22 March 1991
TM 9-2350-261-20-1	Unit Maintenance Manual for Carrier, Personnel, Full Tracked, Armored, M113A2 (NSN 2350-01-068-4077) Carrier, Command Post, Light Tracked, M577A2, (2350-01-068-4089) Carrier, Mortar, 120-MM, M121; Self-Propelled, M1064, (2350-01-338-3116) C 26 August 2005
TM 9-2350-261-20-2	Unit Maintenance Manual for Carrier, Personnel, Full Tracked: Armored, M113A2 (NSN 2350-01-068-4077); Carrier, Command Post, Light Tracked, M577A2 (2350-01-068-4089) Carrier, Mortar, 120-MM, M121; Self-Propelled, M1064 (2350-01-338-3116) Ca 26 August 2005
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TM 9-2350-275-BD	Operator's, Organizational, Direct Support and General Support Maintenance Battlefield Damage Assessment and Repair for M113 Family, Carrier, Personnel, Self-Propelled, Full-Tracked 9 February 1984

TM 9-2350-277-10	Operator's Manual for Carrier, Personnel, Full Tracked, Armored, M113A3 Carrier, Command Post, Light , Tracked, M577A3 Carrier, Anti-Tank (TOW) Full, Tracked, Armored, M901A3; M981A3; M1059A3; M1064A3; (This Item is Included on EM 0040) 2 January 2001
TM 9-2350-277-20-1	Unit Maintenance Manual for Carrier, Personnel, Full-Tracked, Armored, M113A3 (NSN 2350-01-219-7577) (EIC: AEY) Carrier, Command Post, Light Tracked, M577A3 (2350-01-369-6085) (EIC: AE7) Carrier, Smoke Generator, Full Tracked, M1059A3 2 January 2001
TM 9-2350-277-20-2	Unit Maintenance for Carrier, Personnel, Full Tracked, Armored M113A3 (NSN 2350-01-219-7577) Carrier, Command Post, Light Tracked, M577A3 (2350-01-369-6085) Carrier, Anti-Tank (TOW), Full Tracked, Armored, M901A3 (2350-01-369-7253) Carrier, 2 January 2001
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TM 9-2350-314-10	Operator's Manual for Howitzer, Medium, Self-Propelled: 155MM, M109A6 (NSN 2350-01-305-0028)(EIC:3FC) 8 February 1999
TM 9-243	Use and Care of Hand Tools and Measuring Tools TO 32-1-101; M6290-AJ-MAN-010; TM-10209-10/1, 1 December 2004
TM 9-2520-215-34	Direct Support and General Support Maintenance Manual For Cross-Drive Transmission Assembly (11649999) (Model XT-1410-4) Composed of: Center Section Assembly, w/Container (NSN 2520-00-140-7526) Output Reduction, Left-Hand Assembly, w/Contai, 31 December 2005
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TM 9-2520-254-34	Direct and General Support Maintenance Manual for Transmission, Automatic (This Item is Included on EM 0040, EM 0076, & EM 0078) 13 October 1971

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