

HEADQUARTERS, DEPARTMENT OF THE ARMY

STP 9-52D13-SM-TG

**Soldier's Manual and
Trainer's Guide, MOS 52D,
Power Generation
Equipment Repairer, Skill
Levels 1/2/3**

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SOLDIER'S MANUAL and TRAINER'S GUIDE

MOS 52D

Soldier's Manual and Trainer's Guide, MOS 52D, Power Generation Equipment Repairer, Skill Levels 1/2/3

Skill Levels 1, 2 and 3

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PREFACE

This soldier training publication (STP) is intended for soldiers holding MOS 52D, Skill Levels 1, 2, and 3, 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 52D should have access to this publication. Trainers and firstline supervisors should actively plan for soldiers' access, making it available in work areas, unit learning centers, and unit libraries. However, it is not intended for an individual copy to be provided to each MOS holder. The STP is obtainable on line from the Reimer Digital Library (RDL) @ <http://155.217.58.58/atdls.htm>
Tasks in this manual apply to both Active and Reserve Component soldiers.

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

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

CHAPTER 1

Introduction

1-1. General. This soldier training publication (STP) identifies individual MOS training requirements for soldiers holding MOS 52D. 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 52D soldiers. Commanders employ two primary methods to evaluate soldiers' proficiency:

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

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

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

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

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

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

- Task number. The task number is a 10-digit number that identifies the task and skill level. Include the task number and title in any correspondence relating to the task.
- Task title. The task title identifies the action to be performed.

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

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

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

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

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

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

and sustainment training programs. Commanders should use the MOS training plan when developing unit training plans.

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

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

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

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

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

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

CHAPTER 2

Training Guide

52D CAREER FIELD DUTY POSITIONS			
Duty Position	Subject Area	Cross Train	Train-up/Merger
Skill Level 1			
Power-Generation Equipment Repairer	1 - 3	NA	52D20/Power-Generation Equipment Repairer
Skill Level 2			
Power-Generation Equipment Repairer	1 - 3	NA	52D30/Senior Power-Generation Equipment Repairer 52D30/Technical Inspector
Skill Level 3			
Senior Power-Generation Equipment Repairer Technical Inspector	4 - 5	NA	52X40/Special Purpose Equipment Repairer

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

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

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

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

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

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

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

ASI/SD	Additional Skill Identifier/Special Duty
AIT	Advanced Individual Training
BNCOC	Basic NCO Course
BTC	Basic Technical Course

Figure 2-1. Training Locations

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

BA	- Biannually
AN	- Annually
SA	- Semiannually
QT	- Quarterly
MO	- Monthly
BW	- Bi-weekly
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 GENERATOR TASKS
- 2 ENGINE TASKS
- 3 WELDING MACHINE TASKS
- 4 EMPLOYMENT OF MOBILE POWER AND DISTRIBUTION SYSTEMS
- 5 MAST AND ELECTRIC POWER PLANT MAINTENANCE (ASI C-9 ONLY)
- 6 AVIATION GENERATOR/AVIATION POWER UNIT MAINTENANCE (ASI D-4 ONLY)

Skill Level 3

- 7 COMMON LOGISTICS TASKS
- 8 TECHNICAL TASKS

2-3. Duty Position Training Requirements.

2-4. Critical Tasks List.**MOS TRAINING PLAN
52D13****CRITICAL TASKS**

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
Skill Level 1					
1. GENERATOR TASKS	091-52D-1101	Correct Malfunction of Control Panel Components on a Generator Set	AIT	AN	1/2
	091-52D-1111	Perform Preventive Maintenance Checks and Services on a Generator Set	AIT	AN	1/2
	091-52D-1181	Correct Malfunction of Main AC Generator Assembly on a Generator Set	AIT	AN	1/2
	091-52D-1182	Correct Malfunction of Electrical Governor System on a Generator Set	AIT	AN	1/2
2. ENGINE TASKS	091-52D-1183	Correct Malfunction of Battery Charging System on the Engine of a Generator Set	AIT	AN	1/2
	091-52D-1184	Correct Malfunction of Components of the Lubrication System on a Diesel Engine of a Generator Set	AIT	AN	1/2
	091-52D-1185	Correct Malfunction of the Fuel System on a Diesel Engine of a Generator Set	AIT	AN	1/2
	091-52D-1186	Correct Malfunction of the Starting System on a Diesel Engine of a Generator Set	AIT	AN	1/2
3. WELDING MACHINE TASKS	091-52D-1187	Correct Malfunction on the DC Circuitry of an Arc Welder	AIT	AN	1/2
4. EMPLOYMENT OF MOBILE POWER AND DISTRIBUTION SYSTEMS	091-52D-1188	Perform Procedures to Determine Generator Selection to Meet a Particular Power Demand	AIT	AN	1/2
	091-52D-1189	Perform Paralleling Procedures on Generator Sets	AIT	AN	1/2
5. MAST AND ELECTRIC POWER	091-ASIC9-1002	Diagnose and Correct Malfunction of a Defective Hydraulic Pneumatic Mast System	ASI/SD	AN	1/2

CRITICAL TASKS

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
PLANT MAINTENANCE (ASI C-9 ONLY)	091-ASIC9-1003	Perform Preventive Maintenance Checks and Services on a Hydraulic-Pneumatic Mast	ASI/SD	AN	1/2
	091-ASIC9-1004	Perform Preventive Maintenance Checks and Services on the Electrical Power Plan III	ASI/SD	AN	1/2
	091-ASIC9-1005	Test Operate the Electrical Power Plant III	ASI/SD	AN	1/2
	091-ASIC9-1006	Correct Malfunction on the Electrical System on the Electric Power Plant III	ASI/SD	AN	1/2
6. AVIATION GENERATOR/AVIATION POWER UNIT MAINTENANCE (ASI D-4 ONLY)	091-ASID4-1005	Test Operate the Aviation Generator Set (MEP-362A)	ASI/SD	AN	1/2
	091-ASID4-1006	Perform Preventive Maintenance Checks and Services on the Aviation Generator Set	ASI/SD	AN	1/2
	091-ASID4-1007	Diagnose Malfunctions in Generator Assembly on the Aviation Generator Set		AN	1/2
	091-ASID4-1008	Diagnose and Correct Malfunctions in the Engine Electronic Control Module on the Aviation Generator Set	ASI/SD	AN	1/2
	091-ASID4-1009	Diagnose and Correct malfunctions in the Generator Electronic Control Module	ASI/SD	AN	1/2
	091-ASID4-1010	Replace Defective Generator Assembly on the Aviation Generator Set	ASI/SD	AN	1/2
	091-ASID4-1012	Replace Defective Gas Turbine Engine on the Aviation Generator Set	ASI/SD	AN	1/2
	091-ASID4-1013	Test Operate the Aviation Ground Power Unit	ASI/SD	AN	1/2
	091-ASID4-1014	Perform Preventive Maintenance Checks and Services on an Aviation Ground Power Unit	ASI/SD	AN	1/2
091-ASID4-1015	Diagnose and Correct Malfunctions in the Generator Assembly on the Aviation Ground Power Unit	ASI/SD	AN	1/2	

CRITICAL TASKS

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
	091-ASID4-1016	Diagnose and Correct malfunctions in the Electronic Control Unit on the Aviation Ground Power Unit	ASI/SD	AN	1/2
	091-ASID4-1017	Replace Defective Generator Assembly on the Aviation Ground Power Unit	ASI/SD	AN	1/2
	091-ASID4-1018	Diagnose and Correct Malfunctions in DC Electrical and Control System on the Aviation Ground Power Unit	ASI/SD	AN	1/2
	091-ASID4-1019	Replace Defective Gas Turbine Engine on the Aviation Ground Power Unit	ASI/SD	AN	1/2
	091-ASID4-1020	Diagnose and Correct Malfunctions in the Generator Control Unit on the Aviation Ground Power Unit	ASI/SD	AN	1/2
	091-ASID4-1021	Diagnose and Correct Malfunctions in the Hydraulic System on the Aviation Ground Power Unit	ASI/SD	AN	1/2
	091-ASID4-1022	Diagnose and Correct Malfunctions in the Traction Motor System on the Aviation Ground Power Unit	ASI/SD	AN	1/2
	091-ASID4-1023	Diagnose and Correct Malfunctions in the Pneumatic System on the Aviation Ground Power Unit	ASI/SD	AN	1/2
Skill Level 3					
7. COMMON LOGISTICS TASKS	091-CLT-3001	Manage a Shop Safety Program	BNCOC	AN	3
	091-CLT-3002	Maintain a Publications Library	BNCOC	AN	3
	091-CLT-3003	Establish Maintenance Facilities	BNCOC	AN	3
	091-CLT-3004	Assist in Preparing a Standing Operating Procedure	BNCOC	AN	3
	091-CLT-3005	Manage Tool Control Procedures	BNCOC	AN	3
	091-CLT-3006	Manage Key Control Procedures	BNCOC	AN	3
	091-CLT-3008	Recon Terrain/Route	BNCOC	AN	3
	091-CLT-3009	Supervise Maintenance Operations	BNCOC	AN	3
	091-CLT-3010	Interpret Maintenance Operational Overlay	BNCOC	AN	3
	091-CLT-3011	Deploy Maintenance Support Teams	BNCOC	AN	3

CRITICAL TASKS

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
	091-CLT-3012	Manage the Standard Army Maintenance System (SAMS)	BNCOC	AN	3
	091-CLT-3013	Manage the Unit Level Logistics System (ULLS)	BNCOC	AN	3
	091-CLT-3015	Deploy Company Maintenance Team/Recovery Support Team	BNCOC	AN	3
	091-CLT-3016	Review the Army Materiel Status System (AMSS) Reports	BNCOC	AN	3
8. TECHNICAL TASKS	091-52D-3101	Perform Diagnostic Procedures on the Electrical Control System of a Generator Set	BNCOC	AN	3
	091-52D-3102	Perform Diagnostic Procedures on a Voltage Regulator of a Generator Set	BNCOC	AN	3
	091-52D-3103	Perform Diagnostic Procedures on Fault Indicator Panel of a Generator Set	BNCOC	AN	3
	091-52D-3104	Perform Diagnostic Procedures of Relay Assembly on a Generator Set	BNCOC	AN	3
	091-52D-3105	Perform Diagnostic Procedures on a Governor Assembly of a Generator Set	BNCOC	AN	3
	091-52D-3106	Perform Diagnostic Procedures on the Main Generator Assembly of a Generator Set	BNCOC	AN	3
	091-52D-3107	Perform Diagnostic Procedures on a Battery Charging Alternator	BNCOC	AN	3
	091-52D-3109	Perform Diagnostic Procedures on the Lubrication System	BNCOC	AN	3
	091-52D-3112	Perform Diagnostic Procedures on Glow Plugs of a Diesel Engine	BNCOC	AN	3
	091-52D-3114	Perform Diagnostic Procedures on a Starter Assembly	BNCOC	AN	3
	091-52D-3118	Perform Diagnostic Procedures on the Fuel System of an Engine	BNCOC	AN	3
	091-52D-3119	Perform Diagnostic Procedures on a Cooling System of a Diesel Engine	BNCOC	AN	3
	091-52D-3120	Perform Diagnostic Procedures on the Electrical Control on a Welding Machine	BNCOC	AN	3
	091-52D-3121	Perform Quality Control/Quality Assurance Inspection on a Generator Set	BNCOC	AN	3
	091-52D-3122	Perform Quality Control/Quality Assurance	BNCOC	AN	3

CRITICAL TASKS

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
		Inspection on a Welding Machine			
	091-52D-3123	Perform Classification Inspection on a Generator Set	BNCOC	AN	3
	091-52D-3124	Perform Classification Inspection on a Welding Machine	BNCOC	AN	3
	091-52D-3127	Replace Cylinder Head	BNCOC	AN	3
	091-52D-3128	Perform Diagnostic Procedures on the Output Rectifier Assembly on a Welding Machine	BNCOC	AN	3
	091-52D-3129	Perform Diagnostic Procedures on the Range Switch Assembly on a Welding Machine	BNCOC	AN	3
	091-52D-3130	Perform Diagnostic Procedures on the Reactor Assembly on a Welding Machine	BNCOC	AN	3

CHAPTER 3

MOS/Skill Level Tasks

Skill Level 1

Subject Area 1: GENERATOR TASKS

Correct Malfunction of Main AC Generator Assembly on a Generator Set

091-52D-1181

Conditions: In a field or garrison environment, given a generator set, maintenance request or equipment inspection worksheet describing equipment malfunctions, variac or external power supply, DC power supply, general mechanic's tool kit, digital multimeter, hearing protection, applicable technical publications, and with supervision/assistance.

Standards: Correct malfunction of main generator assembly on a generator set IAW the applicable technical publications. When the task is completed, the generator set must be fully mission-capable.

Evaluation Preparation: WARNING: The following safety precautions must be adhered to when performing the tasks listed in this manual: Remove all rings, watches, and jewelry. Do not operate generator equipment in an enclosed area unless the area is adequately ventilated. Smoking, sparks, or open flame are not allowed within 50 feet of a generator set that is undergoing fuel system maintenance. Use care when handling fan and radiator. Sharp edges can cause injury. Dry-cleaning solvent is flammable and should not be used in the vicinity of sparks or open flame. When using compressed air, wear eye shields. Do not remove a radiator cap or surge tank cap unless the engine is cool. While working on battery systems, wear rubber gloves and goggles. Before working on the exhaust system, make sure it is cool. Prior to performing any electrical system maintenance or when performing repairs in the locality of electrical components, disconnect the negative battery cable. While cutting metal with an oxyacetylene torch, wear leather gloves, leather apron, and welding goggles. When working around engines that are operating, wear hearing protection. When removing components over 75 pounds, two personnel are required. Do not smoke or use an open flame in the vicinity when filling a fuel tank. Do not operate generator set unless ground terminal stud has been connected to a suitable ground. Do not attempt to alter the position of the voltage reconnection board while the generator set is operating. Do not attempt to connect or disconnect load leads while the generator set is operating. Be careful not to inhale ether gas. Do not allow a crated generator set to swing while it is suspended.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Inspect the main generator assembly on a generator set.	—	—
5. Test the main generator assembly.	—	—
6. Repair main generator assembly, as required.	—	—
7. Replace main generator assembly, as required.	—	—
8. Perform a final operational test to verify fault(s) have been corrected.	—	—
9. Ensure required maintenance forms have been completed.	—	—

Performance Measures

GO NO GO

10. Maintain tools and equipment.

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

References

Required

- DA FORM 2404
- DA FORM 5988-E
- TM 5-6115-271-14
- TM 5-6115-423-15
- TM 5-6115-440-10
- TM 5-6115-440-20
- TM 5-6115-465-12
- TM 5-6115-465-34
- TM 5-6115-545-12
- TM 5-6115-545-34
- TM 5-6115-584-12
- TM 5-6115-584-34
- TM 5-6115-585-12
- TM 5-6115-585-34
- TM 5-6115-586-12
- TM 5-6115-590-12
- TM 5-6115-590-34
- TM 5-6115-593-12
- TM 5-6115-596-14
- TM 5-6115-600-12
- TM 5-6115-600-34
- TM 5-6115-612-12
- TM 5-6115-612-34
- TM 5-6115-614-12
- TM 5-6115-615-12
- TM 5-6115-615-34
- TM 5-6115-629-14&P
- TM 9-2815-252-24
- TM 9-2815-254-24
- TM 9-2815-256-24
- TM 9-6115-464-12
- TM 9-6115-542-24&P
- TM 9-6115-545-24P
- TM 9-6115-624-BD
- TM 9-6115-641-10
- TM 9-6115-641-24
- TM 9-6115-642-10
- TM 9-6115-642-24
- TM 9-6115-643-10
- TM 9-6115-643-24
- TM 9-6115-644-10
- TM 9-6115-644-24
- TM 9-6115-645-10
- TM 9-6115-645-24
- TM 9-6115-663-13&P

Related

- DA PAM 738-750
- FM 5-424

**Correct Malfunction of Electrical Governor System on a Generator Set
091-52D-1182**

Conditions: In a field or garrison environment, given a generator set, maintenance request or equipment inspection worksheet describing equipment malfunctions, general mechanic's tool kit, digital multimeter, hearing protection, applicable technical publications, and with supervision/assistance.

Standards: Correct malfunction of electrical governor on a generator set IAW applicable technical publications. When the task is completed, the generator set must be fully mission-capable.

Performance Steps

1. Select applicable publications
2. Identify faulty component.
- 3.

Evaluation Preparation: WARNING: The following safety precautions must be adhered to when performing the tasks listed in this manual: Remove all rings, watches, and jewelry. Do not operate generator equipment in an enclosed area unless the area is adequately ventilated. Smoking, sparks, or open flame are not allowed within 50 feet of a generator set that is undergoing fuel system maintenance. Use care when handling fan and radiator. Sharp edges can cause injury. Dry-cleaning solvent is flammable and should not be used in the vicinity of sparks or open flame. When using compressed air, wear eye shields. Do not remove a radiator cap or surge tank cap unless the engine is cool. While working on battery systems, wear rubber gloves and goggles. Before working on the exhaust system, make sure it is cool. Prior to performing any electrical system maintenance or when performing repairs in the locality of electrical components, disconnect the negative battery cable. While cutting metal with an oxyacetylene torch, wear leather gloves, leather apron, and welding goggles. When working around engines that are operating, wear hearing protection. When removing components over 75 pounds, two personnel are required. Do not smoke or use an open flame in the vicinity when filling a fuel tank. Do not operate generator set unless ground terminal stud has been connected to a suitable ground. Do not attempt to alter the position of the voltage reconnection board while the generator set is operating. Do not attempt to connect or disconnect load leads while the generator set is operating. Be careful not to inhale ether gas. Do not allow a crated generator set to swing while it is suspended.

Performance Measures

	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	___	___
2. Select and use applicable tools and TMDE.	___	___
3. Practice shop safety and maintenance TMDE.	___	___
4. Inspect the electrical governor on a generator set.	___	___
5. Test the electrical governor.	___	___
6. Repair electrical governor, as required.	___	___
7. Replace electrical governor, as required.	___	___
8. Perform a final operational test to verify fault(s) have been corrected.	___	___
9. Ensure required maintenance forms have been completed.	___	___
10. Maintain tools and equipment.	___	___

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

References

Required
DA FORM 2404

Related
DA FORM 5988-E
DA PAM 738-750
FM 5-424
TM 5-6115-271-14
TM 5-6115-423-15
TM 5-6115-440-10
TM 5-6115-440-20
TM 5-6115-465-12
TM 5-6115-465-34
TM 5-6115-545-12
TM 5-6115-545-34
TM 5-6115-584-12
TM 5-6115-584-34
TM 5-6115-585-12
TM 5-6115-585-34
TM 5-6115-586-12
TM 5-6115-590-12
TM 5-6115-590-34
TM 5-6115-593-12
TM 5-6115-596-14
TM 5-6115-600-12
TM 5-6115-600-34
TM 5-6115-612-12
TM 5-6115-612-34
TM 5-6115-614-12
TM 5-6115-615-12
TM 5-6115-615-34
TM 5-6115-629-14&P
TM 9-2815-252-24
TM 9-2815-254-24
TM 9-2815-256-24
TM 9-6115-464-12
TM 9-6115-542-24&P
TM 9-6115-545-24P
TM 9-6115-624-BD
TM 9-6115-641-10
TM 9-6115-641-24
TM 9-6115-642-10
TM 9-6115-642-24
TM 9-6115-643-10
TM 9-6115-643-24
TM 9-6115-644-10
TM 9-6115-644-24
TM 9-6115-645-10
TM 9-6115-645-24
TM 9-6115-663-13&P

**Correct Malfunction of Control Panel Components on a Generator Set
091-52D-1101**

Conditions: In a field or garrison environment, given a generator set, maintenance request or equipment inspection worksheet describing equipment malfunctions, general mechanic's tool kit, digital multimeter, hearing protection, applicable technical publications, and with supervision/assistance.

Standards: Correct malfunction of control panel components on a generator set IAW the applicable technical publications. When the task is completed, the generator set must be fully mission-capable.

Evaluation Preparation: WARNING: The following safety precautions must be adhered to when performing the tasks listed in this manual: Remove all rings, watches, and jewelry. Do not operate generator equipment in an enclosed area unless the area is adequately ventilated. Smoking, sparks, or open flame are not allowed within 50 feet of a generator set that is undergoing fuel system maintenance. Use care when handling fan and radiator. Sharp edges can cause injury. Dry-cleaning solvent is flammable and should not be used in the vicinity of sparks or open flame. When using compressed air, wear eye shields. Do not remove a radiator cap or surge tank cap unless the engine is cool. While working on battery systems, wear rubber gloves and goggles. Before working on the exhaust system, make sure it is cool. Prior to performing any electrical system maintenance or when performing repairs in the locality of electrical components, disconnect the negative battery cable. While cutting metal with an oxyacetylene torch, wear leather gloves, leather apron, and welding goggles. When working around engines that are operating, wear hearing protection. When removing components over 75 pounds, two personnel are required. Do not smoke or use an open flame in the vicinity when filling a fuel tank. Do not operate generator set unless ground terminal stud has been connected to a suitable ground. Do not attempt to alter the position of the voltage reconnection board while the generator set is operating. Do not attempt to connect or disconnect load leads while the generator set is operating. Be careful not to inhale ether gas. Do not allow a crated generator set to swing while it is suspended.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	_____	_____
2. Select and use applicable tools and TMDE.	_____	_____
3. Practice shop safety and maintenance discipline.	_____	_____
4. Inspect the control panel components on a generator set.	_____	_____
5. Test the control panel components.	_____	_____
6. Repair control panel components as required.	_____	_____
7. Replace control panel components as required.	_____	_____
8. Perform a final operational test to verify fault(s) have been corrected.	_____	_____
9. Ensure required maintenance forms have been completed.	_____	_____
10. Maintain tools and equipment.	_____	_____

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

References

Required
DA FORM 5988-E
TM 5-6115-271-14

Related
DA PAM 738-750
FM 5-424

References

Required

TM 5-6115-423-15
TM 5-6115-440-10
TM 5-6115-440-20
TM 5-6115-465-12
TM 5-6115-465-34
TM 5-6115-545-12
TM 5-6115-545-34
TM 5-6115-584-12
TM 5-6115-584-34
TM 5-6115-585-12
TM 5-6115-585-34
TM 5-6115-586-12
TM 5-6115-590-12
TM 5-6115-590-34
TM 5-6115-593-12
TM 5-6115-596-14
TM 5-6115-600-12
TM 5-6115-600-34
TM 5-6115-612-12
TM 5-6115-612-34
TM 5-6115-614-12
TM 5-6115-615-12
TM 5-6115-615-34
TM 5-6115-629-14&P
TM 9-6115-464-12
TM 9-6115-542-24&P
TM 9-6115-545-24P
TM 9-6115-641-10
TM 9-6115-641-24
TM 9-6115-642-10
TM 9-6115-642-24
TM 9-6115-643-10
TM 9-6115-643-24
TM 9-6115-644-10
TM 9-6115-644-24
TM 9-6115-645-10
TM 9-6115-645-24
TM 9-6115-663-13&P

Related

TM 9-2815-252-24
TM 9-2815-254-24
TM 9-2815-256-24
TM 9-6115-624-BD

**Perform Preventive Maintenance Checks and Services on a Generator Set
091-52D-1111**

Conditions: In a field or garrison environment, given a generator set, optical anti freeze tester, battery, goggles, apron, general mechanic's tool kit, rags, applicable technical publications and forms, hearing protection, and with supervision/assistance.

Standards: Perform preventive maintenance checks and services (PMCS) on a generator IAW the applicable technical publications.

Evaluation Preparation: WARNING: The following safety precautions must be adhered to when performing the tasks listed in this manual: Remove all rings, watches, and jewelry. Do not operate generator equipment in an enclosed area unless the area is adequately ventilated. Smoking, sparks, or open flame are not allowed within 50 feet of a generator set that is undergoing fuel system maintenance. Use care when handling fan and radiator. Sharp edges can cause injury. Dry-cleaning solvent is flammable and should not be used in the vicinity of sparks or open flame. When using compressed air, wear eye shields. Do not remove a radiator cap or surge tank cap unless the engine is cool. While working on battery systems, wear rubber gloves and goggles. Before working on the exhaust system, make sure it is cool. Prior to performing any electrical system maintenance or when performing repairs in the locality of electrical components, disconnect the negative battery cable. While cutting metal with an oxyacetylene torch, wear leather gloves, leather apron, and welding goggles. When working around engines that are operating, wear hearing protection. When removing components over 75 pounds, two personnel are required. Do not smoke or use an open flame in the vicinity when filling a fuel tank. Do not operate generator set unless ground terminal stud has been connected to a suitable ground. Do not attempt to alter the position of the voltage reconnection board while the generator set is operating. Do not attempt to connect or disconnect load leads while the generator set is operating. Be careful not to inhale ether gas. Do not allow a crated generator set to swing while it is suspended.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	_____	_____
2. Select and use applicable tools to perform PMCS on a generator set.	_____	_____
3. Practice shop safety and maintenance discipline.	_____	_____
4. Perform before-operation PMCS on a generator set.	_____	_____
5. Operate the generator set.	_____	_____
6. Perform during-operation PMCS.	_____	_____
7. Shut down the generator set.	_____	_____
8. Perform after-operation PMCS.	_____	_____
9. Ensure required maintenance forms have been completed.	_____	_____
10. Maintain tools and equipment.	_____	_____

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

References

Required
DA FORM 2404
DA FORM 5988-E

Related
DA PAM 738-750
FM 5-424

References

Required

TM 5-6115-271-14
TM 5-6115-423-15
TM 5-6115-440-10
TM 5-6115-465-12
TM 5-6115-545-12
TM 5-6115-584-12
TM 5-6115-585-12
TM 5-6115-586-12
TM 5-6115-590-12
TM 5-6115-593-12
TM 5-6115-596-14
TM 5-6115-600-12
TM 5-6115-612-12
TM 5-6115-614-12
TM 5-6115-615-12
TM 5-6115-629-14&P
TM 9-6115-464-12
TM 9-6115-641-10
TM 9-6115-642-10
TM 9-6115-643-10
TM 9-6115-644-10
TM 9-6115-644-24
TM 9-6115-645-10
TM 9-6115-663-13&P

Related

TM 5-6115-440-20
TM 5-6115-465-34
TM 5-6115-545-34
TM 5-6115-584-34
TM 5-6115-585-34
TM 5-6115-590-34
TM 5-6115-600-34
TM 5-6115-612-34
TM 5-6115-615-34
TM 9-2815-252-24
TM 9-2815-254-24
TM 9-2815-256-24
TM 9-6115-542-24&P
TM 9-6115-545-24P
TM 9-6115-624-BD
TM 9-6115-641-24
TM 9-6115-642-24
TM 9-6115-643-24
TM 9-6115-645-24

Subject Area 2: ENGINE TASKS

**Correct Malfunction of Battery Charging System on the Engine of a Generator Set
091-52D-1183**

Conditions: In a field or garrison environment, given a generator set, maintenance request or equipment inspection worksheet describing equipment malfunctions, general mechanic's tool kit, schematic and wiring diagram, digital multimeter, hearing protection, applicable technical publications, and with supervision/assistance.

Standards: Correct malfunction of battery charging alternator on a generator set IAW the applicable technical publications. When the task is completed, the generator set must be fully mission-capable.

Evaluation Preparation: WARNING: The following safety precautions must be adhered to when performing the tasks listed in this manual: Remove all rings, watches, and jewelry. Do not operate generator equipment in an enclosed area unless the area is adequately ventilated. Smoking, sparks, or open flame are not allowed within 50 feet of a generator set that is undergoing fuel system maintenance. Use care when handling fan and radiator. Sharp edges can cause injury. Dry-cleaning solvent is flammable and should not be used in the vicinity of sparks or open flame. When using compressed air, wear eye shields. Do not remove a radiator cap or surge tank cap unless the engine is cool. While working on battery systems, wear rubber gloves and goggles. Before working on the exhaust system, make sure it is cool. Prior to performing any electrical system maintenance or when performing repairs in the locality of electrical components, disconnect the negative battery cable. While cutting metal with an oxyacetylene torch, wear leather gloves, leather apron, and welding goggles. When working around engines that are operating, wear hearing protection. When removing components over 75 pounds, two personnel are required. Do not smoke or use an open flame in the vicinity when filling a fuel tank. Do not operate generator set unless ground terminal stud has been connected to a suitable ground. Do not attempt to alter the position of the voltage reconnection board while the generator set is operating. Do not attempt to connect or disconnect load leads while the generator set is operating. Be careful not to inhale ether gas. Do not allow a crated generator set to swing while it is suspended.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	___	___
2. Select and use applicable tools and TMDE.	___	___
3. Practice shop safety and maintenance discipline.	___	___
4. Inspect the battery-charging alternator.	___	___
5. Test the battery-charging alternator.	___	___
6. Repair battery-charging alternator, as required.	___	___
7. Replace battery-charging alternator, as required.	___	___
8. Perform a final operational test to verify fault(s) have been corrected.	___	___
9. Ensure required maintenance forms have been completed.	___	___
10. Maintain tools and equipment.	___	___

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

References

Required

TM 5-6115-584-34
TM 5-6115-585-34
TM 9-6115-641-24
TM 9-6115-642-24
TM 9-6115-643-24
TM 9-6115-645-24

Related

FM 11-62
FM 5-424
TM 5-6115-584-12
TM 5-6115-585-12
TM 9-6115-644-24
TM 9-6115-645-10

Correct Malfunction of Components of the Lubrication System on a Diesel Engine of a Generator Set

091-52D-1184

Conditions: In a field or garrison environment, given a generator set, maintenance request or equipment inspection worksheet describing equipment malfunctions, general mechanic's tool kit, hearing protection, applicable technical publications, and with supervision/assistance.

Standards: Correct malfunction of lubrication system of a generator set IAW the applicable technical publications. When the task is completed, the generator set must be fully mission-capable.

Evaluation Preparation: WARNING: The following safety precautions must be adhered to when performing the tasks listed in this manual: Remove all rings, watches, and jewelry. Do not operate generator equipment in an enclosed area unless the area is adequately ventilated. Smoking, sparks, or open flame are not allowed within 50 feet of a generator set that is undergoing fuel system maintenance. Use care when handling fan and radiator. Sharp edges can cause injury. Dry-cleaning solvent is flammable and should not be used in the vicinity of sparks or open flame. When using compressed air, wear eye shields. Do not remove a radiator cap or surge tank cap unless the engine is cool. While working on battery systems, wear rubber gloves and goggles. Before working on the exhaust system, make sure it is cool. Prior to performing any electrical system maintenance or when performing repairs in the locality of electrical components, disconnect the negative battery cable. While cutting metal with an oxyacetylene torch, wear leather gloves, leather apron, and welding goggles. When working around engines that are operating, wear hearing protection. When removing components over 75 pounds, two personnel are required. Do not smoke or use an open flame in the vicinity when filling a fuel tank. Do not operate generator set unless ground terminal stud has been connected to a suitable ground. Do not attempt to alter the position of the voltage reconnection board while the generator set is operating. Do not attempt to connect or disconnect load leads while the generator set is operating. Be careful not to inhale ether gas. Do not allow a crated generator set to swing while it is suspended.

Performance Measures

	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	___	___
2. Select and use applicable tools and TMDE.	___	___
3. Practice shop safety and maintenance discipline.	___	___
4. Inspect the lubrication system.	___	___
5. Troubleshoot the lubrication system.	___	___
6. Test the lubrication system.	___	___
7. Repair lubrication system as required.	___	___
8. Perform a final operational test to verify fault(s) have been corrected.	___	___
9. Ensure required maintenance forms have been completed.	___	___
10. Maintain tools and equipment.	___	___

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

References

Required

DA FORM 2404
TM 5-6115-465-34
TM 5-6115-545-12
TM 5-6115-545-34
TM 5-6115-584-12
TM 5-6115-584-34
TM 5-6115-585-12
TM 5-6115-585-34
TM 5-6115-590-34
TM 9-2815-253-24
TM 9-2815-253-24P
TM 9-2815-254-24
TM 9-6115-542-24&P
TM 9-6115-641-10
TM 9-6115-641-24
TM 9-6115-642-24
TM 9-6115-643-24
TM 9-6115-644-24
TM 9-6115-645-24
TM 9-8000

Related

FM 5-424

**Correct Malfunction of the Fuel System on a Diesel Engine of a Generator Set
091-52D-1185**

Conditions: In a field or garrison environment, given a generator set, maintenance request or equipment inspection worksheet describing equipment malfunctions, general mechanic's tool kit, hearing protection, applicable technical publications, and with supervision/assistance.

Standards: Correct malfunction of fuel transfer pump on a diesel engine on a generator set IAW the applicable technical publications. When the task is completed, the generator set must be fully mission-capable.

Evaluation Preparation: WARNING: The following safety precautions must be adhered to when performing the tasks listed in this manual: Remove all rings, watches, and jewelry. Do not operate generator equipment in an enclosed area unless the area is adequately ventilated. Smoking, sparks, or open flame are not allowed within 50 feet of a generator set that is undergoing fuel system maintenance. Use care when handling fan and radiator. Sharp edges can cause injury. Dry-cleaning solvent is flammable and should not be used in the vicinity of sparks or open flame. When using compressed air, wear eye shields. Do not remove a radiator cap or surge tank cap unless the engine is cool. While working on battery systems, wear rubber gloves and goggles. Before working on the exhaust system, make sure it is cool. Prior to performing any electrical system maintenance or when performing repairs in the locality of electrical components, disconnect the negative battery cable. While cutting metal with an oxyacetylene torch, wear leather gloves, leather apron, and welding goggles. When working around engines that are operating, wear hearing protection. When removing components over 75 pounds, two personnel are required. Do not smoke or use an open flame in the vicinity when filling a fuel tank. Do not operate generator set unless ground terminal stud has been connected to a suitable ground. Do not attempt to alter the position of the voltage reconnection board while the generator set is operating. Do not attempt to connect or disconnect load leads while the generator set is operating. Be careful not to inhale ether gas. Do not allow a crated generator set to swing while it is suspended.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	___	___
2. Select and use applicable tools.	___	___
3. Practice shop safety and maintenance discipline.	___	___
4. Inspect the fuel transfer pump on a diesel engine.	___	___
5. Test fuel transfer pump.	___	___
6. Repair fuel transfer pump, as required.	___	___
7. Replace fuel transfer pump, as required.	___	___
8. Perform a final operational test to verify fault(s) have been corrected.	___	___
9. Ensure required maintenance forms have been completed.	___	___
10. Maintain tools and equipment.	___	___

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

References

Required
TM 9-6115-464-12

Related
TM 5-6115-271-14

References

Required

TM 9-6115-542-24&P
TM 9-6115-545-24P
TM 9-6115-643-10
TM 9-6115-643-24
TM 9-6115-644-10
TM 9-6115-644-24

Related

TM 5-6115-423-15
TM 5-6115-440-10
TM 5-6115-440-20
TM 5-6115-465-12
TM 5-6115-465-34
TM 5-6115-545-12
TM 5-6115-545-12-HR
TM 5-6115-545-34
TM 5-6115-584-12
TM 5-6115-584-34
TM 5-6115-585-12
TM 5-6115-585-34
TM 5-6115-586-12
TM 5-6115-590-12
TM 9-6115-624-BD
TM 9-6115-639-13
TM 9-6115-641-10
TM 9-6115-641-24
TM 9-6115-642-10
TM 9-6115-642-24
TM 9-6115-645-10

**Correct Malfunction of the Starting System on a Diesel Engine of a Generator Set
091-52D-1186**

Conditions: In a field or garrison environment, given a generator set, maintenance request or equipment inspection worksheet describing equipment malfunctions, general mechanic's tool kit, schematics and wiring diagram, digital multimeter, hearing protection, applicable technical publications, and with supervision/assistance.

Standards: Correct malfunction of the starter assembly on a generator set IAW the applicable technical publications. When the task is completed, the generator set must be fully mission-capable.

Evaluation Preparation: WARNING: The following safety precautions must be adhered to when performing the tasks listed in this manual: Remove all rings, watches, and jewelry. Do not operate generator equipment in an enclosed area unless the area is adequately ventilated. Smoking, sparks, or open flame are not allowed within 50 feet of a generator set which is undergoing fuel system maintenance. Use care when handling fan and radiator. Sharp edges can cause injury. Dry-cleaning solvent is flammable and should not be used in the vicinity of sparks or open flame. When using compressed air, wear eye shields. Do not remove a radiator cap or surge tank cap unless the engine is cool. While working on battery systems, wear rubber gloves and goggles. Before working on the exhaust system, make sure it is cool. Prior to performing any electrical system maintenance or when performing repairs in the locality of electrical components, disconnect the negative battery cable. While cutting metal with an oxyacetylene torch, wear leather gloves, leather apron, and welding goggles. When working around engines that are operating, wear hearing protection. When removing components over 75 pounds, two personnel are required. Do not smoke or use an open flame in the vicinity when filling a fuel tank. Do not operate generator set unless ground terminal stud has been connected to a suitable ground. Do not attempt to alter the position of the voltage reconnection board while the generator set is operating. Do not attempt to connect or disconnect load leads while the generator set is operating. Be careful not to inhale ether gas. Do not allow a crated generator set to swing while it is suspended.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Inspect the starter assembly.	—	—
5. Troubleshoot the starter assembly.	—	—
6. Repair starter assembly, as required.	—	—
7. Replace starter assembly, as required.	—	—
8. Perform a final operational test to verify fault(s) have been corrected.	—	—
9. Ensure required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

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

References

Required
TM 5-6115-465-34

Related
TM 5-6115-545-12-HR

References

Required

TM 5-6115-545-12
TM 5-6115-545-34
TM 5-6115-584-34
TM 5-6115-585-34
TM 9-6115-643-10
TM 9-6115-645-24
TM 9-6115-663-13&P
TM 9-6115-668-13

Related

TM 5-6115-584-12
TM 5-6115-585-12
TM 5-6115-586-12
TM 5-6115-590-12
TM 5-6115-590-34
TM 5-6115-593-12
TM 5-6115-596-14
TM 5-6115-600-12
TM 5-6115-600-34
TM 9-6115-464-12
TM 9-6115-542-24&P
TM 9-6115-545-24P
TM 9-6115-624-BD
TM 9-6115-639-13
TM 9-6115-641-10
TM 9-6115-641-24
TM 9-6115-642-10
TM 9-6115-642-24
TM 9-6115-643-24
TM 9-6115-644-10
TM 9-6115-644-24
TM 9-6115-645-10

Subject Area 3: WELDING MACHINE TASKS

**Correct Malfunction on the DC Circuitry of an Arc Welder
091-52D-1187**

Conditions: In a field or garrison environment, given an arc welder, general mechanic's tool kit, schematic and wiring diagrams, digital multimeter, clean rags, hearing protection, applicable technical publications and forms, and with supervision/assistance.

Standards: Perform PMCS on a welding machine IAW technical publications.

Evaluation Preparation: WARNING: The following safety precautions must be adhered to when performing the tasks listed in this manual: Remove all rings, watches, and jewelry. Do not operate generator equipment in an enclosed area unless the area is adequately ventilated. Smoking, sparks, or open flame are not allowed within 50 feet of a generator set that is undergoing fuel system maintenance. Use care when handling fan and radiator. Sharp edges can cause injury. Dry-cleaning solvent is flammable and should not be used in the vicinity of sparks or open flame. When using compressed air, wear eye shields. Do not remove a radiator cap or surge tank cap unless the engine is cool. While working on battery systems, wear rubber gloves and goggles. Before working on the exhaust system, make sure it is cool. Prior to performing any electrical system maintenance or when performing repairs in the locality of electrical components, disconnect the negative battery cable. While cutting metal with an oxyacetylene torch, wear leather gloves, leather apron, and welding goggles. When working around engines that are operating, wear hearing protection. When removing components over 75 pounds, two personnel are required. Do not smoke or use an open flame in the vicinity when filling a fuel tank. Do not operate generator set unless ground terminal stud has been connected to a suitable ground. Do not attempt to alter the position of the voltage reconnection board while the generator set is operating. Do not attempt to connect or disconnect load leads while the generator set is operating. Be careful not to inhale ether gas. Do not allow a crated generator set to swing while it is suspended.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform before-operation PMCS.	—	—
5. Operate the welding machine.	—	—
6. Perform during-operation PMCS.	—	—
7. Shut down the welding machine.	—	—
8. Perform after-operation PMCS.	—	—
9. Ensure required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

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

References

Required

TM 9-3431-266-14&P-1
TM 9-3431-266-14&P-2
TM 9-3431-272-13&P

Related

FM 5-424

Subject Area 4: EMPLOYMENT OF MOBILE POWER AND DISTRIBUTION SYSTEMS

Perform Paralleling Procedures on Generator Sets
091-52D-1189

Conditions: As a power generation equipment repairer in a field environment, given two or more generator sets, applicable tool kit, FM 5-424, and applicable generator set technical manuals.

Standards: You must synchronize and perform Parallel operation of two or more generator sets. IAW the performance measures and the appropriate technical manuals.

Performance Steps

1. Close the main circuit breaker on the base set.
 2. Ensure that the voltmeter indicates the frequency required for the load.
 After steps 1 and 2 are completed, the incoming generator set may be synchronized with the base unit.
 - a. During the synchronizing process the base (operating) generator set may be connected to the load and operating or it may be disconnected from the load and operating.
 - b. After steps 1 and 2 are completed, the incoming generator set may be synchronized with the base unit.
 3. Open the circuit breaker on the incoming generator set.
 4. Ensure that the voltage and frequency outputs of the incoming generator set are the same as those of the base set.
 5. Place the paralleling switch on the control panels of the base and incoming generator sets in the ON position. When the paralleling switches are on, the two paralleling lamps on the control panel of the incoming set will begin to blink on and off at the same time if the generator sets are connected properly.
 - a. Ensure that the lights blink in unison.
 - b. Adjust the throttle (on utility sets) of the frequency adjust rheostat (on precise sets) until the lamps go on and off at 3- to 5-second intervals.
 - c. When the lights are completely dark, close the main circuit breaker on the incoming set until the kilowatt meter indicates one-half of the power of the base set.
 - d. Adjust the voltage rheostats on both sets, if necessary to eliminate crosscurrents.
 6. When the synchronizing lamps blink in unison the two sets are operating as one base unit.
- Note: The following step is for paralleling operations of 3 or more generators.
7. Complete steps 3 through 6 for each additional incoming set.
 - a. The percent -of-power meter on the third set should indicate one-third of the load of the base set.
 - b. After all generator sets are operating in parallel, divide the load equally among them. To do this adjust the voltage and frequency outputs of each set.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Determine the requirements for paralleling.	—	—
2. Make applicable connections between Generator Sets and load for paralleling operations.	—	—
3. Parallel Generator sets and support a load.	—	—

Performance Measures

GO NO GO

4. Perform Paralleling operations shutdown procedures.

— —

**References
Required**

Related
FM 5-424
TM 9-6115-644-10
TM 9-6115-645-10

**Perform Procedures to determine Generator Selection to Meet a Particular Power Demand
091-52D-1188**

Conditions: As a power generation equipment repairer in a field environment, given generator set, applicable tool kit, and FM 5-424, equipment specified in references and a field unit's power distribution system.

Standards: Select the number and types of generators that can best meet the unit's power requirements IAW references. When the task is completed, the power distribution system will be set up and operate IAW references.

Performance Steps

1. Compute the Load.
 - a. Map the field unit.
 - b. Determine the electrical load for each area.
 - c. Compute the connected load for each structure.
 - d. Compute the demand load.
 - e. Compute the diversity factor.
 - f. Compute the power factor.
 - g. Compute the voltage drop.
 - h. Compute for growth.
2. Compute the cable size.
 - a. Compute total current demand for each phase.
 - b. Determine wire size capable of carrying the total current.
 - c. Determine the total resistance of the cable when it is connected between the generator set and the load.
3. Balance the load.
 - a. Single Phase Systems.
 - b. Three Phase Systems.
4. Select generator set
 - a. Calculate the following criteria.
 - (1) Electrical loads to be supplied.
 - (2) Kilowatt rating requirements.
 - (3) Operating voltages required.
 - (4) Number of phases required.
 - (5) Frequency requirements.
 - (6) Availability of fuels.
 - (7) Expected life of the field unit.
 - (8) Availability of skilled maintenance personnel.
 - (9) Probable load deviation.
 - b. Calculate power and voltage requirements.
 - c. Calculate Load Classification requirements

Performance Measures

	<u>GO</u>	<u>NO GO</u>
1. Compute the Load.	_____	_____
2. Compute the cable size.	_____	_____
3. Balance the Load.	_____	_____
4. Select Generator Set.	_____	_____

References

Required

FM 5-424

Related

TM 9-2815-252-24
TM 9-2815-254-24
TM 9-2815-256-24
TM 9-6115-641-10
TM 9-6115-641-24
TM 9-6115-642-24
TM 9-6115-643-10
TM 9-6115-643-24
TM 9-6115-644-24
TM 9-6115-645-10
TM 9-6115-645-24
TM 9-8000

Subject Area 5: MAST AND ELECTRIC POWER PLANT MAINTENANCE (ASI C-9 ONLY)

**Diagnose and Correct Malfunction of a Defective Hydraulic Pneumatic Mast System
091-ASIC9-1002**

Conditions: In a field or classroom environment, given a Hydraulic Pneumatic Mast System.

Standards: Diagnose and correct malfunction IAW TM 11-5985-368-12&P

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Review equipment inspection and maintenance worksheet and/or work request.	—	—
3. Ensure task is within shop capability/authorization.	—	—
4. Determine the required maintenance action.	—	—
5. Ensure applicable technical publications are available.	—	—
6. Determine if required maintenance is within shop capability/authorization.	—	—
7. Ensure proper tools are available to inspect, repair/replace, and test the hydraulic mast system.	—	—
8. Select necessary tools and test equipment.	—	—
9. Perform initial inspection.	—	—
10. Select necessary publications.	—	—
11. Diagnose fault(s) and determine maintenance action to be performed.	—	—
12. Troubleshoot the Hydraulic Mast system assembly IAW references.	—	—
13. Identify repair parts and requisition, if required.	—	—
14. Follow all safety precautions.	—	—
15. Assign personnel to perform task.	—	—
16. Identify faults.	—	—
17. Ensure all safety precautions and procedures are followed.	—	—
18. Determine corrective action.	—	—
19. Provide assistance when necessary.	—	—
20. Complete TAMMS forms, as required.	—	—
21. Hydraulic mast assembly is repaired to acceptable standards.	—	—
22. Conduct an in-process inspection.	—	—
23. Perform a final inspection to ensure the Hydraulic Pneumatic Mast assembly is fully mission-capable.	—	—

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

References

Required

TM 11-5985-368-12&P

Related

**Perform Preventive Maintenance Checks and Services on a Hydraulic-Pneumatic Mast
091-ASIC9-1003**

Conditions: In a field or classroom environment, given antenna mast assembly

Standards: Perform PMCS on a Hydraulic-Pneumatic Mast. IAW TM 11-5985-368- 12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools to perform PMCS on a Hydraulic-Pneumatic Mast.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform before-operation PMCS on a Hydraulic-Pneumatic Mast.	—	—
5. Operate the Hydraulic-Pneumatic Mast.	—	—
6. Perform during-operation PMCS.	—	—
7. Shut down the Hydraulic-Pneumatic Mast.	—	—
8. Perform after-operation PMCS.	—	—
9. Ensure required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

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

References

Required

TM 11-5985-368-12&P

Related

**Perform Preventive Maintenance Checks and Services on the Electrical Power Plan III
091-ASIC9-1004**

Conditions: In a field or garrison environment, given a Electrical power plant III General mechanics tool kit, applicable technical publications and forms, hearing protection.

Standards: Perform PMCS on the Electrical Power plant III IAW TM 11-5985-368-12 & 34.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools to perform PMCS on an Electrical Power Plant III.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform before-operation PMCS on an Electrical Power Plant III.	—	—
5. Operate the Electrical Power Plant III.	—	—
6. Perform during-operation PMCS.	—	—
7. Shut down the Electrical Power Plant III.	—	—
8. Perform after-operation PMCS.	—	—
9. Ensure required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

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

References

Required

TM 11-5985-368-12&P

Related

**Test Operate the Electrical Power Plant III
091-ASIC9-1005**

Conditions: In a classroom/shop environment, given instruction, references, an electric power plant III (EPP III), necessary tools and equipment.

Standards: Operate the Electric power plant IAW TM 9-6115-668-13.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform Preventive Maintenance Checks and Services on the Electrical Power Plant III IAW applicable references.	—	—
5. Operate the Electric Power Plant.	—	—
6. Perform shutdown of Electric Power Plant.	—	—

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

References
Required
 TM 9-6115-668-13

Related

**Correct Malfunction on the Electrical System on the Electric Power Plant III
091-ASIC9-1006**

Conditions: In a field or garrison environment, given a Electrical power plant III General mechanics tool kit, applicable technical publications and forms, hearing protection.

Standards: Correct malfunction on the electrical system of the Electric Power Plant III IAW TM 11-5985-368-34.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Inspect the control panel components on the Electrical Power Plant.	—	—
5. Test the electrical system components.	—	—
6. Repair electrical system components as required.	—	—
7. Replace electrical system components as required.	—	—
8. Perform a final operational test to verify fault(s) have been corrected.	—	—
9. Ensure required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

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

References

Required

TM 11-5985-368-12&P

Related

Subject Area 6: AVIATION GENERATOR/AVIATION POWER UNIT MAINTENANCE (ASI D-4 ONLY)

**Test Operate the Aviation Generator Set (MEP-362A)
091-ASID4-1005**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Test operate the Generator IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable tools and TMDE	—	—
2. Select and use applicable publications	—	—
3. Practice shop safety and maintenance.	—	—
4. Perform PMCS on the Aviation generator set (MEP 362A).	—	—
5. Test the Generator.	—	—
6. Start and Run the generator perform during operation tests, as required.	—	—
7. Perform during operation tests.as required.	—	—
8. Perform a final after operational test .	—	—
9. Ensure required maintenance forms have been completed.	—	—

References

Required

- TM 55-1730-229-12
- TM 55-1730-229-34

Related

**Perform Preventive Maintenance Checks and Services on the Aviation Generator Set
091-ASID4-1006**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Test operate the Generator IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools to perform PMCS on an aviation generator set.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform before-operation PMCS on an aviation generator set.	—	—
5. Operate the aviation generator set.	—	—
6. Perform during-operation PMCS.	—	—
7. Shut down the aviation generator set.	—	—
8. Perform after-operation PMCS.	—	—
9. Ensure required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

References

Required

- TM 55-1730-229-12
- TM 55-1730-229-34

Related

**Diagnose Malfunctions in Generator Assembly on the Aviation Generator Set
091-ASID4-1007**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Diagnose malfunctions in Generator assembly IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools to diagnose malfunctions on an aviation generator set.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform before-operation PMCS on an aviation generator set.	—	—
5. Operate the aviation generator set to diagnose malfunction.	—	—
6. Perform during-operation PMCS.	—	—
7. Shut down the aviation generator set.	—	—
8. Perform after-operation PMCS.	—	—
9. Ensure required maintenance forms have been completed.	—	—

References

Required

- TM 55-1730-229-12
- TM 55-1730-229-34

Related

**Diagnose and Correct Malfunctions in the Engine Electronic Control Module on the Aviation Generator Set
091-ASID4-1008**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Diagnose and correct malfunctions of the Engine electronic control module of the Generator IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable tools to perform PMCS on an aviation generator set.	—	—
2. Select proper tools to diagnose and correct malfunctions in the engine control module.	—	—
3. Determine faults/malfunctions based on inspection and testing.	—	—
a. Inspect.		
b. Test.		
c. Replace.		
4. Perform a final operational test.	—	—
5. Complete all required maintenance forms.	—	—

References

Required

TM 55-1730-229-12

TM 55-1730-229-34

Related

**Diagnose and Correct malfunctions in the Generator Electronic Control Module
091-ASID4-1009**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Diagnose and correct malfunctions of the Generator electronic control module of the Generator IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Use applicable publications.	—	—
2. Select proper tools to diagnose and correct malfunctions in the generator electronic control module.	—	—
3. Determine faults/malfunctions based on inspection and testing.	—	—
a. Inspect		
b. Test.		
c. Replace.		
4. Perform a final operational test.	—	—
5. Complete all required maintenance forms.	—	—

References

Required

- TM 55-1730-229-12
- TM 55-1730-229-34

Related

**Replace Defective Generator Assembly on the Aviation Generator Set
091-ASID4-1010**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Replace defective Generator assembly of the Generator IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Use applicable publications.	—	—
2. Select proper tools to inspect, test, repair and replace the generator assembly on the aviation generator set	—	—
3. Determine faults /malfunctions based on inspection and testing.	—	—
a. Generator Assembly.		
(1) Inspect.		
(2) Test.		
(3) Repair.		
(4) Replace.		
4. Perform a final operational test.	—	—
5. Complete all required maintenance forms.	—	—

References

Required
TM 55-1730-229-12

Related

**Replace Defective Gas Turbine Engine on the Aviation Generator Set
091-ASID4-1012**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Replace defective Gas turbine engine of the Aviation Generator IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Use applicable publications.	—	—
2. Select proper tools to inspect, test, repair, and replace a defective gas turbine on the aviation generator set.	—	—
3. Determine faults/serviceability based on inspection and testing.	—	—
a. Gas Turbine Engine.		
(1) Inspect.		
(2) Test.		
(3) Repair.		
(4) Replace.		
4. Perform a final operational test.	—	—
5. Complete all required TAMMS forms.	—	—

References

Required

- TM 55-1730-229-12
- TM 55-1730-229-34

Related

**Test Operate the Aviation Ground Power Unit
091-ASID4-1013**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Test and operate the Aviation ground power unit IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Use applicable publications.	—	—
2. Select proper tools to set up and operate Aviation Ground power unit.	—	—
3. Set up and perform Before operation PMCS.	—	—
4. Perform during operation PMCS.	—	—
5. Test the Aviation ground power unit under load.	—	—
6. Perform shutdown and after operation PMCS.	—	—
7. Complete all required TAMMS forms.	—	—

References

Required

TM 55-1730-229-12

TM 55-1730-229-34

Related

**Perform Preventive Maintenance Checks and Services on an Aviation Ground Power Unit
091-ASID4-1014**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Perform PMCS on the Aviation ground power unit IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools to perform PMCS on Aviation Ground power unit.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Perform before-operation PMCS on the Aviation Ground power unit.	—	—
5. Operate the power unit.	—	—
6. perform during-operations PMCS.	—	—
7. Shutdown the power unit.	—	—
8. Perform after - operation PMCS.	—	—
9. Ensure required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

References

Required

- TM 55-1730-229-12
- TM 55-1730-229-34

Related

**Diagnose and Correct Malfunctions in the Generator Assembly on the Aviation Ground Power Unit
091-ASID4-1015**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Diagnose and correct malfunctions of the of the Generator assembly on the aviation ground power unit IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Inspect the Generator assembly on the power unit.	—	—
5. Test the Generator assembly.	—	—
6. Repair the generator assembly, as required.	—	—
7. Replace Generator assembly, as required.	—	—
8. Perform a final operational test to verify faults have been corrected	—	—
9. Ensure all required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

References

Required

TM 55-1730-229-12

TM 55-1730-229-34

Related

Diagnose and Correct malfunctions in the Electronic Control Unit on the Aviation Ground Power Unit

091-ASID4-1016

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Diagnose and correct malfunctions of the electronic control module of the Aviation ground power unit IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Inspect the Electronic Control Unit on the Aviation Ground power unit.	—	—
5. Test the Electronic Control unit.	—	—
6. Repair the electronic control unit as required.	—	—
7. Replace the electronic control unit as required.	—	—
8. Perform a final operational test to verify fault(s) have been corrected.	—	—
9. Ensure required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

References

Required

- TM 55-1730-229-12
- TM 55-1730-229-34

Related

**Replace Defective Generator Assembly on the Aviation Ground Power Unit
091-ASID4-1017**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Replace defective generator assembly on the aviation ground power unit IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Inspect the Generator assembly on the aviation ground power unit.	—	—
5. Test the Generator assembly.	—	—
6. Repair Generator assembly , as required.	—	—
7. Replace Generator assembly, as required.	—	—
8. Perform a final operational test to verify faults(s) have been corrected.	—	—
9. Ensure required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

References

Required

TM 55-1730-229-12

TM 55-1730-229-34

Related

Diagnose and Correct Malfunctions in DC Electrical and Control System on the Aviation Ground Power Unit
091-ASID4-1018

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Diagnose and correct malfunctions of the DC electrical and control system of the aviation ground power unit IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Inspect DC electrical and control systems on the aviation ground power unit.	—	—
5. Test the DC electrical and control systems.	—	—
6. Repair DC electrical and control systems, as required.	—	—
7. Replace DC electrical and control systems, as required.	—	—
8. Perform a final operational test to verify fault(s) have been corrected.	—	—
9. Ensure required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

References

Required

- TM 55-1730-229-12
- TM 55-1730-229-34

Related

**Replace Defective Gas Turbine Engine on the Aviation Ground Power Unit
091-ASID4-1019**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Replace defective Gas Turbine on the aviation power unit IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Inspect the Gas turbine engine on the aviation ground power unit.	—	—
5. Test the Gas Turbine.	—	—
6. Repair Gas Turbine, as required	—	—
7. Replace Gas turbine.	—	—
8. Perform a final operational test to verify fault(s) have been corrected.	—	—
9. Ensure required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

References

- Required**
 TM 55-1730-229-12
 TM 55-1730-229-34

Related

Diagnose and Correct Malfunctions in the Generator Control Unit on the Aviation Ground Power Unit

091-ASID4-1020

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Diagnose and correct malfunctions of the generator control unit of the aviation ground power unit IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publication.	—	—
2. Select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Inspect the Generator control unit on the aviation ground power unit.	—	—
5. Test the control unit.	—	—
6. Repair control unit, as required.	—	—
7. Replace control unit, as required.	—	—
8. Perform a final operational test to verify fault(s) have been corrected.	—	—
9. Ensure required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

References

Required

- TM 55-1730-229-12
- TM 55-1730-229-34

Related

**Diagnose and Correct Malfunctions in the Hydraulic System on the Aviation Ground Power Unit
091-ASID4-1021**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Diagnose and correct malfunctions of the hydraulic system on the aviation ground power unit IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Inspect the Hydraulic system on the aviation ground power unit.	—	—
5. Test the hydraulic system.	—	—
6. Repair the Hydraulic system, as required	—	—
7. Replace the hydraulic system, as required.	—	—
8. Perform a final operational test to verify faults have been corrected.	—	—
9. Ensure all required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

References

Required

TM 55-1730-229-12

TM 55-1730-229-34

Related

Diagnose and Correct Malfunctions in the Traction Motor System on the Aviation Ground Power Unit

091-ASID4-1022

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Diagnose and correct malfunctions of the traction motor system of the aviation ground power unit IAW TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publications.	—	—
2. Select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Inspect the traction motor system on the aviation ground power unit.	—	—
5. Test the Traction Motor.	—	—
6. Repair the traction motor, as required.	—	—
7. Replace the traction motor, as required.	—	—
8. Perform a final operational test to verify faults have been corrected.	—	—
9. Ensure required maintenance forms have been corrected.	—	—
10. Maintain tools and equipment.	—	—

References

Required

- TM 55-1730-229-12
- TM 55-1730-229-34

Related

**Diagnose and Correct Malfunctions in the Pneumatic System on the Aviation Ground Power Unit
091-ASID4-1023**

Conditions: In a field or garrison environment given a Aviation generator set (MEP 362A), general mechanics toolkit, hearing protection, applicable technical publications.

Standards: Diagnose and correct malfunctions of the pneumatic system on the aviation ground power unit TM 55-1730-229-12 and 34

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Select and use applicable publication.	—	—
2. Select and use applicable tools and TMDE.	—	—
3. Practice shop safety and maintenance discipline.	—	—
4. Inspect the Pneumatic system on the aviation ground power unit.	—	—
5. Test the pneumatic system.	—	—
6. Repair the pneumatic system, as required.	—	—
7. Replace the pneumatic system , as required.	—	—
8. Perform a final operational test to verify faults have been corrected.	—	—
9. Ensure required maintenance forms have been completed.	—	—
10. Maintain tools and equipment.	—	—

References

Required

TM 55-1730-229-12

TM 55-1730-229-34

Related

Skill Level 3

Subject Area 8: TECHNICAL TASKS

**Perform Diagnostic Procedures on the Electrical Control System of a Generator Set
091-52D-3101**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform diagnostic procedures of the electrical control system on a generator set IAW with listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review equipment inspection and maintenance worksheet and/or work request.	—	—
2. Determine the required maintenance action.	—	—
3. Determine if required maintenance is within shop capability/authorization.	—	—
4. Select necessary tools and test equipment.	—	—
5. Select necessary publications.	—	—
6. Diagnose fault(s) and determine maintenance action to be performed.	—	—
7. Troubleshoot the electrical control system IAW references.	—	—
8. Follow all safety precautions.	—	—
9. Identify faults.	—	—
10. Determine corrective action.	—	—
11. Complete TAMM's forms, as required.	—	—
12. Provide assistance when necessary.	—	—
13. Ensure electrical control system is repaired to acceptable standards.	—	—
14. Conduct an in-process inspection.	—	—
15. Perform a final inspection to ensure the electrical control system of a generator set is fully mission-capable.	—	—
16. Critique personnel on performance of the task.	—	—
17. Ensure maintenance forms are completed, as required.	—	—
18. Ensure tools and equipment are properly maintained.	—	—

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

References

Required
TM 5-6115-545-12

Related
DA PAM 738-750
FM 11-62

**References
Required**

Related

FM 5-424
TM 5-6115-545-34
TM 5-6115-584-12
TM 5-6115-584-34
TM 5-6115-585-12
TM 5-6115-585-34
TM 9-2815-252-24
TM 9-2815-254-24
TM 9-2815-256-24
TM 9-3431-266-14&P-1
TM 9-6115-641-10
TM 9-6115-641-24
TM 9-6115-643-10
TM 9-6115-643-24
TM 9-6115-645-10
TM 9-6115-645-24

**Perform Diagnostic Procedures on a Voltage Regulator of a Generator Set
091-52D-3102**

Conditions: In a field or garrison environment , given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision

Standards: Soldier must perform this task in accordance with listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review equipment inspection and maintenance worksheet and/or work request.	—	—
1. Review work request.	—	—
2. Determine the required maintenance action.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
3. Determine if required maintenance is within shop capability/authorization.	—	—
4. Ensure proper tools are available to inspect, repair/replace, and test the voltage regulator of a generator set.	—	—
4. Select necessary tools and test equipment.	—	—
5. Perform initial inspection.	—	—
5. Select necessary publications.	—	—
6. Diagnose fault(s), and determine maintenance action to be performed.	—	—
6. Troubleshoot the voltage regulator IAW references.	—	—
7. Identify repair parts and requisition, if required.	—	—
7. Follow all safety precautions.	—	—
8. Identify faults.	—	—
8. Assign personnel to perform task.	—	—
9. Determine corrective action.	—	—
9. Ensure all safety precautions and procedures are followed.	—	—
10. Complete TAMMS forms, as required .	—	—
10. Provide assistance when necessary.	—	—
11. Ensure voltage regulator is repaired to acceptable standards.	—	—
12. Conduct an in-process inspection.	—	—

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

**References
Required**

Related
EM 0074
FM 11-60
FM 11-61
FM 11-62
LO 5-6115-615-12
TM 11-6625-3052-14
TM 5-6115-545-12
TM 5-6115-545-34
TM 5-6115-585-12
TM 5-6115-585-34
TM 5-6115-615-12
TM 5-6115-615-34
TM 9-1425-450-34-2
TM 9-4935-451-14

**Perform Diagnostic Procedures on Fault Indicator Panel of a Generator Set
091-52D-3103**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform diagnostic procedures on a fault indication panel of a generator net IAW listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Review equipment inspection and maintenance worksheet and/or work request.	—	—
3. Ensure task is within shop capability/authorization.	—	—
4. Determine the required maintenance action.	—	—
5. Ensure applicable technical publications are available.	—	—
6. Determine if required maintenance is within shop capability/authorization.	—	—
7. Select necessary tools and test equipment.	—	—
8. Perform initial inspection.	—	—
9. Select necessary publications.	—	—
10. Diagnose fault(s) and determine maintenance action to be performed.	—	—
11. Troubleshoot the fault indication panel IAW references.	—	—
12. Identify repair parts and requisition, if required.	—	—
13. Follow all safety precautions.	—	—
14. Assign personnel to perform task.	—	—
15. Identify faults.	—	—
16. Ensure all safety precautions and procedures are followed.	—	—
17. Determine corrective action.	—	—
18. Provide assistance when necessary.	—	—
19. Complete TAMMS forms, as required.	—	—
20. Ensure fault indicator panel is repaired to acceptable standards.	—	—
21. Conduct an in-process inspection.	—	—
22. Perform a final inspection to ensure the fault indicator panel of a generator set is fully mission-capable.	—	—
23. Critique personnel on performance of the task.	—	—
24. Ensure maintenance forms are completed, as required.	—	—

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

References

Required

TM 5-6115-271-14
TM 5-6115-423-15
TM 5-6115-440-10
TM 5-6115-465-12
TM 5-6115-545-12-HR
TM 5-6115-584-12
TM 5-6115-585-12
TM 5-6115-586-12
TM 5-6115-593-12
TM 9-6115-464-12
TM 9-6115-624-BD
TM 9-6115-641-10
TM 9-6115-642-10
TM 9-6115-643-24

Related

TM 5-6115-440-20
TM 5-6115-465-34
TM 5-6115-545-12
TM 5-6115-545-34
TM 5-6115-584-34
TM 5-6115-585-34
TM 5-6115-590-12
TM 5-6115-590-34
TM 9-6115-542-24&P
TM 9-6115-545-24P
TM 9-6115-639-13
TM 9-6115-641-24
TM 9-6115-642-24
TM 9-6115-643-10
TM 9-6115-644-10
TM 9-6115-644-24
TM 9-6115-645-10
TM 9-6115-645-24

**Perform Diagnostic Procedures of Relay Assembly on a Generator Set
091-52D-3104**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform diagnostic procedures of relay assembly on a generator net IAW with listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Review equipment inspection and maintenance worksheet and/or work request.	—	—
3. Ensure task is within shop capability/authorization.	—	—
4. Determine the required maintenance action.	—	—
5. Ensure applicable technical publications are available.	—	—
6. Determine if required maintenance is within shop capability/authorization.	—	—
7. Ensure proper tools are available to inspect, repair/replace, and test the relay assembly of a generator set.	—	—
8. Select necessary tools and test equipment.	—	—
9. Perform initial inspection.	—	—
10. Select necessary publications.	—	—
11. Diagnose fault(s) and determine maintenance action to be performed.	—	—
12. Troubleshoot the relay assembly IAW references.	—	—
13. Identify repair parts and requisition, if required.	—	—
14. Follow all safety precautions.	—	—
15. Assign personnel to perform task.	—	—
16. Identify faults.	—	—
17. Ensure all safety precautions and procedures are followed.	—	—
18. Determine corrective action.	—	—
19. Provide assistance when necessary.	—	—
20. Complete TAMMS forms, as required.	—	—
21. Ensure relay assembly is repaired to acceptable standards.	—	—
22. Conduct an in-process inspection.	—	—
23. Perform a final inspection to ensure the relay assembly is fully mission-capable.	—	—

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

References

Required

TM 5-6115-545-34
TM 5-6115-585-12
TM 5-6115-590-12
TM 9-6115-624-BD
TM 9-6115-641-24
TM 9-6115-642-24

Related

TM 5-6115-440-20
TM 5-6115-465-12
TM 5-6115-465-34
TM 5-6115-545-12
TM 5-6115-545-12-HR
TM 5-6115-584-12
TM 5-6115-584-34
TM 5-6115-585-34
TM 5-6115-586-12
TM 5-6115-590-34
TM 5-6115-593-12
TM 9-6115-464-12
TM 9-6115-542-24&P
TM 9-6115-545-24P
TM 9-6115-639-13
TM 9-6115-641-10
TM 9-6115-642-10
TM 9-6115-643-10
TM 9-6115-643-24
TM 9-6115-644-10
TM 9-6115-644-24
TM 9-6115-645-10
TM 9-6115-645-24

**Perform Diagnostic Procedures on a Governor Assembly of a Generator Set
091-52D-3105**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform diagnostic procedures on an electrical governor of a generator set IAW with listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Review equipment inspection and maintenance worksheet and/or work request.	—	—
3. Ensure task is within shop capability/authorization.	—	—
4. Determine the required maintenance action.	—	—
5. Ensure applicable technical publications are available.	—	—
6. Determine if required maintenance is within shop capability/authorization.	—	—
7. Ensure proper tools are available to inspect, repair/replace, and test the governor assembly of a generator set.	—	—
8. Select necessary tools and test equipment.	—	—
9. Perform initial inspection.	—	—
10. Select necessary publications.	—	—
11. Diagnose fault(s) and determine maintenance action to be performed.	—	—
12. Troubleshoot the electrical governor IAW references.	—	—
13. Identify repair parts and requisition, if required.	—	—
14. Follow all safety precautions.	—	—
15. Assign personnel to perform task.	—	—
16. Identify faults.	—	—
17. Ensure all safety precautions and procedures are followed.	—	—
18. Determine corrective action.	—	—
19. Provide assistance when necessary.	—	—
20. Complete TAMMS forms, as required.	—	—
21. Ensure governor assembly is repaired to acceptable standards.	—	—
22. Conduct an in-process inspection.	—	—
23. Perform a final inspection to ensure the governor assembly is fully mission-capable.	—	—

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

References

Required

TM 5-6115-440-20
TM 5-6115-545-12
TM 5-6115-584-12
TM 5-6115-585-34
TM 5-6115-590-34
TM 9-6115-542-24&P
TM 9-6115-639-13
TM 9-6115-642-10
TM 9-6115-643-24
TM 9-6115-645-24

Related

TM 5-6115-465-12
TM 5-6115-465-34
TM 5-6115-545-12-HR
TM 5-6115-545-34
TM 5-6115-584-34
TM 5-6115-585-12
TM 5-6115-586-12
TM 5-6115-590-12
TM 5-6115-593-12
TM 5-6115-596-14
TM 5-6115-600-12
TM 9-6115-545-24P
TM 9-6115-624-BD
TM 9-6115-641-10
TM 9-6115-641-24
TM 9-6115-642-24
TM 9-6115-643-10
TM 9-6115-644-10
TM 9-6115-644-24
TM 9-6115-645-10
TM 9-6115-663-13&P

**Perform Diagnostic Procedures on the Main Generator Assembly of a Generator Set
091-52D-3106**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform diagnostic procedures on the main generator assembly of a generator set IAW listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Review equipment inspection and maintenance worksheet and/or work request.	—	—
3. Ensure task is within shop capability/authorization.	—	—
4. Determine required maintenance action.	—	—
5. Ensure applicable technical publications are available.	—	—
6. Determine if required maintenance is within shop capability/authorization.	—	—
7. Ensure proper tools are available to inspect, repair/replace, and test the main generator assembly of a generator set.	—	—
8. Select necessary tools and test equipment.	—	—
9. Perform initial inspection.	—	—
10. Select necessary publications.	—	—
11. Diagnose fault(s) and determine maintenance action to be performed.	—	—
12. Troubleshoot the main generator assembly IAW references.	—	—
13. Identify repair parts and requisition, if required.	—	—
14. Follow all safety precautions.	—	—
15. Assign personnel to perform task.	—	—
16. Identify faults.	—	—
17. Ensure all safety precautions and procedures are followed.	—	—
18. Determine corrective action.	—	—
19. Provide assistance when necessary.	—	—
20. Complete TAMMS forms, as required.	—	—
21. Ensure the main generator assembly is repaired to acceptable standards.	—	—
22. Conduct an in-process inspection.	—	—
23. Perform a final inspection to ensure the main generator assembly is fully mission-capable.	—	—

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

References

Required

TM 5-6115-590-12
TM 5-6115-596-14
TM 9-6115-542-24&P
TM 9-6115-639-13
TM 9-6115-642-10
TM 9-6115-643-24

Related

TM 5-6115-465-12
TM 5-6115-465-34
TM 5-6115-545-12
TM 5-6115-545-12-HR
TM 5-6115-545-34
TM 5-6115-584-12
TM 5-6115-584-34
TM 5-6115-585-12
TM 5-6115-585-34
TM 5-6115-586-12
TM 5-6115-590-34
TM 5-6115-593-12
TM 5-6115-600-12
TM 5-6115-600-34
TM 9-6115-464-12
TM 9-6115-545-24P
TM 9-6115-624-BD
TM 9-6115-641-10
TM 9-6115-641-24
TM 9-6115-642-24
TM 9-6115-643-10
TM 9-6115-644-10
TM 9-6115-644-24
TM 9-6115-645-10
TM 9-6115-645-24
TM 9-6115-663-13&P

**Perform Diagnostic Procedures on a Battery Charging Alternator
091-52D-3107**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform diagnostic procedures on a battery charging alternator IAW listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Review equipment inspection and maintenance worksheet and/or work request.	—	—
3. Ensure task is within shop capability/authorization.	—	—
4. Determine the required maintenance action.	—	—
5. Ensure applicable technical publications are available.	—	—
6. Determine if required maintenance is within shop capability/authorization.	—	—
7. Ensure proper tools are available to inspect, repair/replace, and test the battery charging alternator of a generator set.	—	—
8. Select necessary tools and test equipment.	—	—
9. Perform initial inspection.	—	—
10. Select necessary publications.	—	—
11. Diagnose fault(s) and determine maintenance action to be performed.	—	—
12. Troubleshoot the battery charging alternator IAW references.	—	—
13. Identify repair parts and requisition, if required.	—	—
14. Follow all safety precautions.	—	—
15. Assign personnel to perform task.	—	—
16. Identify faults.	—	—
17. Ensure all safety precautions and procedures are followed.	—	—
18. Determine corrective action.	—	—
19. Provide assistance when necessary.	—	—
20. Complete TAMMS forms, as required.	—	—
21. Ensure the battery charging alternator is repaired to acceptable standards.	—	—
22. Conduct an in-process inspection.	—	—
23. Perform a final inspection to ensure the battery charging alternator is fully mission-capable.	—	—

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

References

Required

TM 5-6115-545-34
TM 5-6115-585-12
TM 5-6115-590-12
TM 5-6115-593-12
TM 5-6115-600-12
TM 9-6115-624-BD
TM 9-6115-642-10
TM 9-6115-643-24
TM 9-6115-644-24
TM 9-6115-645-24

Related

TM 5-6115-465-12
TM 5-6115-465-34
TM 5-6115-545-12
TM 5-6115-545-12-HR
TM 5-6115-584-12
TM 5-6115-584-34
TM 5-6115-585-34
TM 5-6115-586-12
TM 5-6115-590-34
TM 5-6115-596-14
TM 5-6115-600-34
TM 5-6115-612-12
TM 5-6115-612-34
TM 9-6115-545-24P
TM 9-6115-639-13
TM 9-6115-641-10
TM 9-6115-641-24
TM 9-6115-642-24
TM 9-6115-643-10
TM 9-6115-644-10
TM 9-6115-645-10
TM 9-6115-663-13&P
TM 9-6115-668-13

**Perform Diagnostic Procedures on the Lubrication System
091-52D-3109**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform diagnostic procedures on the lubrication system IAW listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Review equipment inspection and maintenance worksheet and/or work request.	—	—
3. Ensure task is within shop capability/authorization.	—	—
4. Determine the required maintenance action.	—	—
5. Ensure applicable technical publications are available.	—	—
6. Determine if required maintenance is within shop capability/authorization.	—	—
7. Ensure proper tools are available to inspect, repair/replace, and test the lubrication system of a generator set.	—	—
8. Select necessary tools and test equipment.	—	—
9. Perform initial inspection.	—	—
10. Select necessary publications.	—	—
11. Diagnose fault(s) and determine maintenance action to be performed.	—	—
12. Troubleshoot the lubrication system IAW references.	—	—
13. Identify repair parts and requisition, if required.	—	—
14. Follow all safety precautions.	—	—
15. Assign personnel to perform task.	—	—
16. Identify faults.	—	—
17. Ensure all safety precautions and procedures are followed.	—	—
18. Determine corrective action.	—	—
19. Provide assistance when necessary.	—	—
20. Complete TAMMS forms, as required .	—	—
21. Ensure the lubrication system is repaired to acceptable standards.	—	—
22. Conduct an in-process inspection.	—	—
23. Perform a final inspection to ensure the lubrication system is fully mission-capable.	—	—

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

References

Required

TM 5-6115-545-12-HR
TM 5-6115-584-12
TM 5-6115-586-12
TM 5-6115-596-14
TM 9-6115-641-10
TM 9-6115-642-10
TM 9-6115-643-24
TM 9-6115-645-10
TM 9-6115-663-13&P

Related

TM 5-6115-465-12
TM 5-6115-465-34
TM 5-6115-545-12
TM 5-6115-545-34
TM 5-6115-584-34
TM 5-6115-585-12
TM 5-6115-585-34
TM 5-6115-590-12
TM 5-6115-590-34
TM 5-6115-593-12
TM 5-6115-600-12
TM 5-6115-600-34
TM 5-6115-612-12
TM 9-6115-542-24&P
TM 9-6115-545-24P
TM 9-6115-624-BD
TM 9-6115-639-13
TM 9-6115-641-24
TM 9-6115-642-24
TM 9-6115-643-10
TM 9-6115-644-10
TM 9-6115-644-24
TM 9-6115-645-24
TM 9-6115-668-13

**Perform Diagnostic Procedures on Glow Plugs of a Diesel Engine
091-52D-3112**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Soldier must perform this task in accordance with listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Review equipment inspection and maintenance worksheet and/or work request.	—	—
3. Ensure task is within shop capability/authorization.	—	—
4. Determine the required maintenance action.	—	—
5. Ensure applicable technical publications are available.	—	—
6. Determine if required maintenance is within shop capability/authorization.	—	—
7. Ensure proper tools are available to inspect, repair/replace, and test the glow plugs on a diesel engine on a generator set.	—	—
8. Select necessary tools and test equipment.	—	—
9. Perform initial inspection.	—	—
10. Select necessary publications.	—	—
11. Diagnose fault(s) and determine maintenance action to be performed.	—	—
12. Troubleshoot the glow plugs IAW references.	—	—
13. Identify repair parts and requisition, if required.	—	—
14. Follow all safety precautions.	—	—
15. Assign personnel to perform task.	—	—
16. Identify faults.	—	—
17. Ensure all safety precautions and procedures are followed.	—	—
18. Determine corrective action.	—	—
19. Provide assistance when necessary.	—	—
20. Complete TAMMS forms, as required.	—	—
21. Ensure glow plugs are repaired/replaced to acceptable standards.	—	—
22. Conduct an in-process inspection.	—	—
23. Perform a final inspection to ensure the glow plugs are fully mission capable.	—	—

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

References

Required

TM 5-6115-545-34
TM 5-6115-585-12
TM 5-6115-590-12
TM 5-6115-596-14
TM 9-6115-624-BD
TM 9-6115-641-24
TM 9-6115-643-10
TM 9-6115-644-24

Related

TM 5-6115-545-12
TM 5-6115-545-12-HR
TM 5-6115-584-12
TM 5-6115-584-34
TM 5-6115-585-34
TM 5-6115-586-12
TM 5-6115-590-34
TM 5-6115-593-12
TM 5-6115-600-12
TM 5-6115-600-34
TM 5-6115-612-12
TM 5-6115-612-34
TM 9-6115-542-24&P
TM 9-6115-545-24P
TM 9-6115-639-13
TM 9-6115-641-10
TM 9-6115-642-10
TM 9-6115-642-24
TM 9-6115-643-24
TM 9-6115-644-10
TM 9-6115-645-10
TM 9-6115-645-24
TM 9-6115-663-13&P

**Perform Diagnostic Procedures on a Starter Assembly
091-52D-3114**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform diagnostic procedures on a starter assembly IAW listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Review equipment inspection and maintenance worksheet and/or work request.	—	—
3. Ensure task is within shop capability/authorization.	—	—
4. Determine the required maintenance action.	—	—
5. Ensure applicable technical publications are available.	—	—
6. Determine if required maintenance is within shop capability/authorization.	—	—
7. Ensure proper tools are available to inspect, repair/replace, and test the starter assembly of a generator set.	—	—
8. Select necessary tools and test equipment.	—	—
9. Perform initial inspection.	—	—
10. Select necessary publications.	—	—
11. Diagnose fault(s) and determine maintenance action to be performed.	—	—
12. Troubleshoot the starter assembly IAW references.	—	—
13. Identify repair parts and requisition, if required.	—	—
14. Follow all safety precautions.	—	—
15. Assign personnel to perform task.	—	—
16. Identify faults.	—	—
17. Ensure all safety precautions and procedures are followed.	—	—
18. Determine corrective action.	—	—
19. Provide assistance when necessary.	—	—
20. Complete TAMMS forms, as required.	—	—
21. Ensure the starter assembly is repaired to acceptable standards.	—	—
22. Conduct an in-process inspection.	—	—
23. Perform a final inspection to ensure the starter assembly is fully mission-capable.	—	—

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

References

Required

TM 5-6115-590-12
TM 5-6115-596-14
TM 5-6115-600-34
TM 9-6115-542-24&P
TM 9-6115-639-13
TM 9-6115-642-10
TM 9-6115-643-24
TM 9-6115-645-10

Related

TM 5-6115-545-12-HR
TM 5-6115-545-34
TM 5-6115-584-12
TM 5-6115-584-34
TM 5-6115-585-12
TM 5-6115-585-34
TM 5-6115-586-12
TM 5-6115-590-34
TM 5-6115-593-12
TM 5-6115-600-12
TM 5-6115-612-12
TM 5-6115-612-34
TM 9-6115-464-12
TM 9-6115-545-24P
TM 9-6115-624-BD
TM 9-6115-641-10
TM 9-6115-641-24
TM 9-6115-642-24
TM 9-6115-643-10
TM 9-6115-644-10
TM 9-6115-644-24
TM 9-6115-645-24

**Perform Diagnostic Procedures on the Fuel System of an Engine
091-52D-3118**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform diagnostic procedures on the fuel system of an engine IAW listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Review equipment inspection and maintenance worksheet and/or work request.	—	—
3. Ensure task is within shop capability/authorization.	—	—
4. Determine the required maintenance action.	—	—
5. Ensure applicable technical publications are available.	—	—
6. Determine if required maintenance is within shop capability/authorization.	—	—
7. Ensure proper tools are available to inspect, repair/replace, and test the fuel system of a generator set.	—	—
8. Select necessary tools and test equipment.	—	—
9. Select necessary publications.	—	—
10. Perform initial inspection.	—	—
11. Diagnose fault(s) and determine maintenance action to be performed.	—	—
12. Troubleshoot the fuel system IAW references.	—	—
13. Identify repair parts and requisition, if required.	—	—
14. Follow all safety precautions.	—	—
15. Assign personnel to perform task.	—	—
16. Identify faults.	—	—
17. Ensure all safety precautions and procedures are followed.	—	—
18. Determine corrective action.	—	—
19. Provide assistance when necessary.	—	—
20. Complete TAMMS forms, as required.	—	—
21. Ensure the fuel system is repaired to acceptable standards.	—	—
22. Conduct an in-process inspection.	—	—
23. Perform a final inspection to ensure the fuel system is fully mission-capable.	—	—

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

References

Required

TM 5-6115-545-34
TM 5-6115-585-12
TM 5-6115-590-12
TM 5-6115-596-14

Related

TM 5-6115-465-34
TM 5-6115-545-12
TM 5-6115-545-12-HR
TM 5-6115-584-12
TM 5-6115-584-34
TM 5-6115-585-34
TM 5-6115-586-12
TM 5-6115-590-34
TM 5-6115-593-12
TM 5-6115-600-12
TM 5-6115-600-34
TM 5-6115-612-12
TM 5-6115-612-34
TM 5-6115-614-12
TM 5-6115-615-12
TM 5-6115-615-34
TM 5-6115-629-14&P
TM 9-6115-464-12
TM 9-6115-542-24&P
TM 9-6115-545-24P
TM 9-6115-624-BD
TM 9-6115-639-13
TM 9-6115-641-10
TM 9-6115-641-24
TM 9-6115-642-10
TM 9-6115-642-24
TM 9-6115-643-10
TM 9-6115-643-24
TM 9-6115-644-10
TM 9-6115-644-24
TM 9-6115-645-10

**Perform Diagnostic Procedures on a Cooling System of a Diesel Engine
091-52D-3119**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform diagnostic procedures on a cooling system of a diesel engine IAW listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Review equipment inspection and maintenance worksheet and/or work request.	—	—
3. Ensure task is within shop capability/authorization.	—	—
4. Determine the required maintenance action.	—	—
5. Ensure applicable technical publications are available.	—	—
6. Determine if required maintenance is within shop capability/authorization.	—	—
7. Ensure proper tools are available to inspect, repair/replace, and test the cooling system of a diesel generator set.	—	—
8. Select necessary tools and test equipment.	—	—
9. Perform initial inspection.	—	—
10. Select necessary publications.	—	—
11. Diagnose fault(s) and determine maintenance action to be performed.	—	—
12. Troubleshoot the cooling system IAW references.	—	—
13. Identify repair parts and requisition, if required.	—	—
14. Follow all safety precautions.	—	—
15. Assign personnel to perform task.	—	—
16. Identify faults.	—	—
17. Ensure all safety precautions and procedures are followed.	—	—
18. Determine corrective action.	—	—
19. Provide assistance when necessary.	—	—
20. Complete TAMMS forms, as required.	—	—
21. Ensure the cooling system is repaired to acceptable standards.	—	—
22. Conduct an in-process inspection.	—	—
23. Perform a final inspection to ensure the cooling system is fully mission-capable.	—	—

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

References

Required

TM 9-6115-643-10
TM 9-6115-643-24
TM 9-6115-644-10
TM 9-6115-644-24
TM 9-6115-645-10
TM 9-6115-645-24
TM 9-6115-663-13&P
TM 9-6115-668-13

Related

TM 5-6115-545-12
TM 5-6115-545-12-HR
TM 5-6115-545-34
TM 5-6115-584-12
TM 5-6115-584-34
TM 5-6115-585-12
TM 5-6115-585-34
TM 5-6115-586-12
TM 5-6115-590-12
TM 5-6115-590-34
TM 5-6115-593-12
TM 5-6115-596-14
TM 5-6115-600-12
TM 5-6115-600-34
TM 5-6115-612-12

**Perform Diagnostic Procedures on the Electrical Control on a Welding Machine
091-52D-3120**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform diagnostic procedures on the electrical control on a welding machine IAW listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Review equipment inspection and maintenance worksheet and/or work request.	—	—
3. Ensure task is within shop capability/authorization.	—	—
4. Determine the required maintenance action.	—	—
5. Ensure applicable technical publications are available.	—	—
6. Determine if required maintenance is within shop capability/authorization.	—	—
7. Ensure proper tools are available to inspect, repair/replace, and test the electrical control on a welding machine.	—	—
8. Select necessary tools and test equipment.	—	—
9. Perform initial inspection.	—	—
10. Select necessary publications.	—	—
11. Diagnose fault(s) and determine maintenance action to be performed.	—	—
12. Troubleshoot the electrical controls IAW references.	—	—
13. Identify repair parts and requisition, if required.	—	—
14. Follow all safety precautions.	—	—
15. Assign personnel to perform task.	—	—
16. Identify faults.	—	—
17. Ensure all safety precautions and procedures are followed.	—	—
18. Determine corrective action.	—	—
19. Provide assistance when necessary.	—	—
20. Complete TAMMS forms, as required.	—	—
21. Ensure the electrical control is repaired to acceptable standards.	—	—
22. Conduct an in-process inspection.	—	—
23. Perform a final inspection to ensure the electrical control is fully mission-capable.	—	—

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

References

Required

TM 9-3431-265-14&P
TM 9-3431-266-14&P-1
TM 9-3431-266-14&P-2
TM 9-3431-272-13&P

Related

**Perform Quality Control/Quality Assurance Inspection on a Generator Set
091-52D-3121**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform quality control (QC)/quality assurance (QA) inspections on a generator set IAW listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Use applicable publications.	—	—
3. Apply troubleshooting procedures.	—	—
4. Apply inspection procedures.	—	—
5. Use TMDE, if required.	—	—
6. Ensure all safety precautions are followed.	—	—
7. Determine disposition of equipment.	—	—
8. Complete TAMMS forms, as required.	—	—

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

References

Required
DA PAM 738-750

Related

**Perform Quality Control/Quality Assurance Inspection on a Welding Machine
091-52D-3122**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform quality control (QC)/quality assurance (QA) inspection on a welding machine IAW listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Use applicable publications.	—	—
3. Apply troubleshooting procedures.	—	—
4. Apply inspection procedures.	—	—
5. Ensure proper tools are available to perform QC/QA inspection on a welding machine.	—	—
6. Ensure all safety precautions and procedures are followed.	—	—
7. Use TMDE, if required.	—	—
8. Ensure all safety precautions are followed.	—	—
9. Determine disposition.	—	—
10. Complete TAMMS forms, as required.	—	—

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

References

Required
DA PAM 738-750

Related

**Perform Classification Inspection on a Generator Set
091-52D-3123**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform classification inspection on a generator set IAW listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review of work order.	—	—
2. Review work request.	—	—
3. Ensure task is within shop capability/authorization.	—	—
4. Apply inspection procedures.	—	—
5. Ensure applicable technical publications are available.	—	—
6. Apply troubleshooting procedures.	—	—
7. Ensure all safety precautions and procedures are followed.	—	—
8. Use TMDE, if required.	—	—
9. Ensure proper tools are available to perform classification inspection on a generator set.	—	—
10. Ensure all safety precautions are followed.	—	—
11. Perform classification inspection on a generator set.	—	—
12. Use applicable publications.	—	—
13. Ensure maintenance forms are completed, as required.	—	—
14. Ensure all safety precautions are followed.	—	—
15. Ensure tools and equipment are properly maintained.	—	—
16. Determine disposition.	—	—
17. Complete TAMMS forms, as required.	—	—

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

References

Required
DA PAM 738-750

Related

**Perform Classification Inspection on a Welding Machine
091-52D-3124**

Conditions: In a field or garrison environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools and test equipment, and with minimum supervision.

Standards: Perform classification inspection on a welding machine IAW listed references, ensuring that all applicable safety precautions are followed.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Use applicable publications.	—	—
3. Apply troubleshooting procedures.	—	—
4. Apply inspection procedures.	—	—
5. Use TMDE, if required.	—	—
6. Ensure all safety precautions are followed.	—	—
7. Determine disposition.	—	—
8. Complete TAMMS forms, as required.	—	—

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

References

Required
DA PAM 738-750

Related

**Replace Cylinder Head
091-52D-3127**

Conditions: In a shop environment, given a 60KW DED generator set, general mechanic's tool kit, torque wrench, replacement parts (gasket), TM 5-6115-545-34, and TM 5-6225-545-12.

Standards: Replace the cylinder head on the diesel engine, IAW TM 5-6115-545-34 and TM 5-6115-545-12.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools are available to inspect, repair/replace, and test the cylinder head.	—	—
5. Perform initial inspection.	—	—
6. Diagnose fault(s), and determine maintenance action to be performed.	—	—
7. Identify repair parts and requisition, if required.	—	—
8. Assign personnel to perform task.	—	—
9. Ensure all safety precautions and procedures are followed.	—	—
10. Provide assistance when necessary.	—	—
11. Ensure cylinder head is replaced to acceptable standards.	—	—
12. Conduct an in-process inspection.	—	—
13. Perform a final inspection to ensure the generator set is fully mission capable.	—	—
14. Ensure maintenance forms are completed, as required.	—	—
15. Ensure tools and equipment are properly maintained.	—	—

References

Required

- TM 5-6115-545-12
- TM 5-6115-545-12-HR
- TM 5-6115-545-34

Related

**Perform Diagnostic Procedures on the Output Rectifier Assembly on a Welding Machine
091-52D-3128**

Conditions: In a field or garrison environment, given a welding machine, maintenance request or equipment inspection worksheet describing equipment malfunctions, schematic and wiring diagram, general mechanic's tool kit, color/grease pencils, multimeter, hearing protection, and applicable technical publications.

Standards: Perform diagnostic procedures on the output rectifier assembly on a welding machine IAW the applicable technical publications. When the task is completed, the welding machine must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools are available to inspect, repair/replace, and test the output rectifier assembly.	—	—
5. Perform initial inspection.	—	—
6. Diagnose fault(s) and determine maintenance action to be performed.	—	—
7. Identify repair parts and requisition, if required.	—	—
8. Assign personnel to perform task.	—	—
9. Ensure all safety precautions and procedures are followed.	—	—
10. Provide assistance when necessary.	—	—
11. Ensure the output rectifier assembly is repaired to acceptable standards.	—	—
12. Conduct an in-process inspection.	—	—
13. Perform a final inspection to ensure the output rectifier assembly is fully mission-capable.	—	—
14. Critique personnel on performance of the task.	—	—
15. Ensure maintenance forms are completed, as required.	—	—
16. Ensure tools and equipment are properly maintained.	—	—

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

References

Required	Related
TM 9-3431-265-14&P	
TM 9-3431-266-14&P-1	
TM 9-3431-266-14&P-2	
TM 9-3431-272-13&P	

**Perform Diagnostic Procedures on the Range Switch Assembly on a Welding Machine
091-52D-3129**

Conditions: In a field or garrison environment, given a welding machine, maintenance request or equipment inspection worksheet describing equipment malfunctions, schematic and wiring diagram, general mechanic's tool kit, multimeter, hearing protection, and applicable technical publications.

Standards: Perform diagnostic procedures on the range switch assembly on a welding machine IAW the applicable technical publications. When the task is completed, the welding machine must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools are available to inspect, repair/replace, and test the range switch assembly.	—	—
5. Perform initial inspection.	—	—
6. Diagnose fault(s) and determine maintenance action to be performed.	—	—
7. Identify repair parts and requisition, if required.	—	—
8. Assign personnel to perform task.	—	—
9. Conduct an in-process inspection.	—	—
10. Provide assistance when necessary.	—	—
11. Ensure the range switch assembly is repaired to acceptable standards.	—	—
12. Conduct an in-process inspection.	—	—
13. Perform a final inspection to ensure the range switch assembly is fully mission-capable.	—	—
14. Critique personnel on performance of the task.	—	—
15. Ensure maintenance forms are completed, as required.	—	—
16. Ensure tools and equipment are properly maintained.	—	—

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

References

Required

- TM 9-3431-265-14&P
- TM 9-3431-266-14&P-1
- TM 9-3431-266-14&P-2
- TM 9-3431-272-13&P

Related

**Perform Diagnostic Procedures on the Reactor Assembly on a Welding Machine
091-52D-3130**

Conditions: In a field or garrison environment, given a welding machine, maintenance request or equipment inspection worksheet describing equipment malfunctions, general mechanic's tool kit, multimeter, hearing protection, and applicable technical publications.

Standards: Perform diagnostic procedures on the reactor assembly on a welding machine IAW the applicable technical publications. When the task is completed, the welding machine must be fully mission-capable.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Review work request.	—	—
2. Ensure task is within shop capability/authorization.	—	—
3. Ensure applicable technical publications are available.	—	—
4. Ensure proper tools are available to inspect, repair/replace, and test the reactor assembly.	—	—
5. Perform initial inspection.	—	—
6. Diagnose fault(s) and determine maintenance action to be performed.	—	—
7. Identify repair parts and requisition, if required.	—	—
8. Assign personnel to perform task.	—	—
9. Ensure all safety precautions and procedures are followed.	—	—
10. Provide assistance when necessary.	—	—
11. Ensure the reactor assembly is repaired to acceptable standards.	—	—
12. Conduct an in-process inspection.	—	—
13. Perform a final inspection to ensure the reactor assembly is fully mission-capable.	—	—
14. Critique personnel on performance of the task.	—	—
15. Ensure maintenance forms are completed, as required.	—	—
16. Ensure tools and equipment are properly maintained.	—	—

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

References

Required	Related
TM 9-3431-265-14&P	
TM 9-3431-266-14&P-1	
TM 9-3431-266-14&P-2	
TM 9-3431-272-13&P	

Subject Area 7: COMMON LOGISTICS TASKS

Manage a Shop Safety Program
091-CLT-3001

Conditions: In a field or garrison environment, given a maintenance site/facility, maintenance personnel, and applicable references.

Standards: Ensured personnel followed all safety procedures, that preventable accidents were avoided, and if accidents occurred that they were properly recorded and reported, IAW applicable references.

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/remained corrected.	—	—
8. Kept necessary records of safety inspections and accident reports.	—	—
9. Ensured MSDS were prepared and maintained as required in applicable work areas.	—	—

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

References

Required

AR 190-13
AR 220-1
AR 700-138
AR 750-1
DA PAM 738-750
FM 4-30.3
TB 43-180

Related

AR 385-10
AR 385-40
AR 385-55

Maintain a Publications Library
091-CLT-3002

Conditions: In a field or garrison environment, given publications and storage location, local and higher headquarters publications indexes and publications procedures, SOP, and applicable forms and references.

Standards: Ensured required publications were on hand or ordered, publications were arranged and maintained properly, forms/records were properly maintained, and changes were posted IAW applicable references and local procedures.

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/on order were the most current IAW DA Pam 25-30.	—	—
4. Ensured that doctrinal, training, and organizational publications on hand/on order were the most current IAW DA Pam 25-30 and local listings.	—	—
5. Ensured that administrative publications on hand/on order were the most current IAW DA Pam 25-30.	—	—
6. Ensured that local and higher headquarters publications on hand/on order were the most current IAW DA Pam 25-30 and local listings.	—	—
7. Prepared DA Form 4569 IAW DA Pam 25-33.	—	—
8. Prepared the required transmittal form IAW DA Pam 25-33.	—	—
9. Prepared DA Forms 17 and 17-1 to request local and higher headquarters publications, IAW DA Pam 25-33 and local/higher headquarters' publications requisitioning procedures.	—	—
10. Ensured that published changes were posted to applicable publications IAW DA PAM 25-40 and publication change instructions.	—	—
11. Removed obsolete/rescinded/superseded publications from library IAW DA Pam 25-40 and publication change instructions.	—	—
12. Arranged publications in proper order and in a suitable location IAW DA Pam 25-40.	—	—
13. Labeled binders used for storing library publications IAW AR 25-400-2 applicable) and DA Pam 25-40.	—	—
14. Notified personnel to return loaned publications to the library in a timely manner IAW SOP.	—	—
15. Updated US Army Publishing Agency (USAPA), local, and higher headquarters publications accounts as required IAW DA Pam 25-33 and local/higher headquarters publication account instructions.	—	—

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

References

Required

AR 25-400-2
DA PAM 25-30
DA PAM 25-33

Related

AR 25-11

Establish Maintenance Facilities
091-CLT-3003

Conditions: In a field or garrison environment, given a maintenance site, maintenance personnel, applicable equipment, maintenance shop/section SOP, and applicable references.

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

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured applicable references and publications were available.	—	—
2. Identified commander's maintenance requirements for the accomplishment of the unit's mission.	—	—
3. Set up the maintenance facility IAW SOP.	—	—

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

References

Required
FM 4-30.3

Related

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

Conditions: In a field or garrison environment, given FM 9-43-1, higher headquarters SOP(s), and commander's guidance.

Standards: Prepared a draft copy of a maintenance shop/section internal or external SOP for supervisor's review, comment, and approval IAW applicable references.

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

References

Required
FM 4-30.3

Related

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

Conditions: In a field or garrison environment, given applicable supply catalog(s), applicable references, and hand receipt forms.

Standards: Managed tool control procedures IAW applicable references.

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 were properly filled out and updated.	—	—
4. Ensured tools and equipment were inventoried IAW 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 steps are passed. Score the soldier NO GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly.

References

Required

- AR 190-13
- AR 220-1
- AR 385-10
- AR 385-40
- AR 700-138
- AR 750-1
- DA PAM 710-2-1
- FM 101-5-1
- FM 4-30.3

Related

- DA PAM 738-750

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

Conditions: In a field or garrison environment, given keys, key control rosters, key boxes/cabinets, and applicable publications.

Standards: Managed key control procedures IAW applicable references.

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

References

Required
AR 190-13
AR 190-51

Related

**Recon Terrain/Route
091-CLT-3008**

Conditions: In a field environment, given a maintenance situation/operations order (OPORD), operational overlay, grid coordinates of destination, vehicle with personnel, and applicable references.

Standards: Performed a route/terrain reconnaissance, and selected the most appropriate route to follow or the most appropriate location to set up a maintenance site, IAW maintenance situation/OPORD and applicable references.

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

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

References

Required
FM 4-30.3
FM 5-170

Related

**Supervise Maintenance Operations
091-CLT-3009**

Conditions: In a field or garrison environment, given maintenance personnel, equipment, maintenance facility/site, SOPs, and applicable references.

Standards: Established and maintained an effective maintenance shop operation IAW SOPs and applicable references.

Performance Steps

1. Ensure unit maintenance procedures are IAW AR 750-1, DA Pam 750-35 and local major command (MACOM) policies.
 - a. Review unit standing operating procedures (SOP) 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 action.
 - d. provide training in maintenance procedures.
3. Provide maintenance management to units.
 - a. Review reports (MCRS and ULLS-G).
 - b. Coordinate with higher level maintenance activities
 - c. Direct cross-leveling of maintenance assets/workload.
 - d. Prioritize maintenance efforts of units.

Performance Measures

	<u>GO</u>	<u>NO GO</u>
1. Reviewed unit SOP as scheduled	—	—
2. Compared unit SOP against standards set in 750-35-35 (Aug 94), Pg.	—	—
3. Completed regular inspection of unit operations.	—	—
4. Compared unit operations against standards in AR 750-1, DA Pam 738-750 and DA 750, and DA Pam 750-35.	—	—
5. Inspect environmental protection practices for compliance.	—	—
6. Review safety program practices for compliance with AR 220-1.	—	—
7. Recorded and submitted deficiencies to proper personnel for correction.	—	—
8. Recorded training needs.	—	—
9. Coordinated with appropriate personnel to provide needed training.	—	—
10. Reviewed MCSR for accuracy and compliance with standards in AR 700-138, ADSM-25-L3N-AWA-EUM, and AISM -25-L3Q-AWC-ZZZ-CG.	—	—
11. Coordinated with appropriate maintenance level to correct maintenance discrepancies.	—	—
12. Coordinated with TRADOC and AMC to ensure that emerging issues are addressed appropriately at the unit.	—	—

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

References

Required

AR 190-51
AR 385-10
AR 385-40
AR 385-55
AR 600-55
AR 700-4
AR 710-2
AR 725-50
AR 735-11-1
AR 735-5
AR 750-43
DA PAM 25-30
DA PAM 710-2-2
DA PAM 738-750
DA PAM 750-1
FM 4-30.3

Related

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

Conditions: In a field or garrison environment, given an operational overlay, map, maintenance situation/OPORD, and applicable references.

Standards: Interpreted the maintenance operational overlay by identifying key features and elements of the area of operation IAW applicable references.

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

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

References

Required
FM 101-5-1
FM 4-30.3
FM 5-170

Related

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

Conditions: In a field or garrison environment, given a request for maintenance support/maintenance situation, map, operational overlay, grid coordinates of destination, vehicle(s), equipment, maintenance personnel, and applicable references.

Standards: Deployed the maintenance support team IAW the maintenance situation/request for maintenance support and applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Reviewed the request for maintenance support/maintenance situation.	—	—
2. Determined personnel and equipment requirements necessary to perform the mission.	—	—
3. Identified available resources for the support team, including personnel with applicable MOSs, vehicle(s), tools, test equipment, publications, repair parts, time, and facilities as necessary.	—	—
4. Determined requirements for defending the team.	—	—
5. Briefed the team on the mission.	—	—
a. Reviewed operational overlay.		
b. Conducted a map recon of the route and destination.		
6. Deployed the maintenance support team.	—	—

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

References

Required
FM 4-30.3

Related
FM 101-5-1
FM 5-170

**Manage the Standard Army Maintenance System (SAMS)
091-CLT-3012**

Conditions: In a field or garrison environment, given a computer system(s) with SAMS-1 software, database of equipment files, SAMS operator, and applicable references.

Standards: Supervised SAMS-1 functions of a direct support (DS)-level maintenance shop IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured necessary equipment and publications were available.	—	—
2. Ensured SAMS operator was adequately trained.	—	—
3. Reviewed the SAMS-1 system and the flow of information to and from system interfaces.	—	—
4. Reviewed the purpose and use of SAMS-1 categories and codes.	—	—
5. Supervised the processing of maintenance requests (DA Form 2407).	—	—
6. Interpreted SAMS-1 reports to identify maintenance trends and problems. <ul style="list-style-type: none"> a. bench stock listing (AHN-023). b. shop section summary (AHN-006). c. work order detail (AHN-018). d. shop stock list (AHN-002). e. production backlog (AHN-022). f. equipment status listing (AHN-021). 	—	—
7. Requested and interpreted ad hoc reports as necessary.	—	—

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

References

Required

AIMS 18-L21-AHN-BUR-UM
AIMS 18-L26-AHO-BUR-EM
DA PAM 738-750

Related

**Manage the Unit Level Logistics System (ULLS)
091-CLT-3013**

Conditions: In a field or garrison environment, given a computer system(s) with Unit Level Logistics System-Ground (ULLS-G) software, database of equipment files, associated Army Materiel Status System (AMSS) software, ULLS operator, and applicable references.

Standards: Supervised ULLS-G functions of a unit-level maintenance shop IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured necessary equipment and references were available.	—	—
2. Ensured ULLS operator was properly trained.	—	—
3. Reviewed the ULLS system flow of information to and from system interfaces.	—	—
4. Reviewed ULLS-G maintenance forms for accuracy.	—	—
5. Analyzed ULLS-G reports and data to identify maintenance trends and problems.	—	—
a. Document register.		
b. PLL inventory report.		
c. Zero balance report.		
d. PLL excess management report.		
e. PLL inquiry.		
f. Not mission capable (NMC) report.		
6. Analyzed AMSS reports and data to identify maintenance trends and problems.	—	—
a. AMSS Authorization Report.		
b. Projected fully mission capable (FMC) Rates Report.		
c. Equipment exception report.		
d. System status summary.		
e. Class IX failure data by administrative number.		
f. Rollup by equipment identification code (EIC).		
g. Rollup by unit identification code (UIC).		
h. Non mission capable (NMC) Report.		

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

References

Required

AR 710-2

DA PAM 710-2-1

Related

**Deploy Company Maintenance Team/Recovery Support Team
091-CLT-3015**

Conditions: In a field or garrison environment, given a request for maintenance support/maintenance situation, map, operational overlay, grid coordinates of destination, vehicle(s), equipment, maintenance personnel, and applicable references.

Standards: Deployed the company maintenance team/recovery support team IAW the maintenance situation/request for maintenance support and applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Reviewed the request for maintenance support/maintenance situation.	—	—
2. Determined personnel and equipment requirements necessary to perform the mission.	—	—
3. Identified available resources for the company maintenance team/recovery support team, including personnel with applicable MOSs, vehicle(s), tools, test equipment, publications, repair parts, time, and facilities, as necessary.	—	—
4. Determined requirements for defending the team.	—	—
5. Briefed the team on the mission:	—	—
a. Reviewed the operational overlay.		
b. Conducted a map recon of the route and destination.		
6. Deployed the maintenance support team.	—	—

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

References

Required
FM 101-5-1
FM 4-30.3
FM 5-170

Related

**Review the Army Materiel Status System (AMSS) Reports
091-CLT-3016**

Conditions: In a field or garrison environment, given AMSS reports produced from an ULLS-G system, and applicable references.

Standards: Analyzed AMSS reports and data to identify maintenance trends and problems IAW applicable references.

Performance Measures	<u>GO</u>	<u>NO GO</u>
1. Ensured necessary ULLS equipment and references were available.	—	—
2. Analyzed AMSS reports and data to identify maintenance trends and problems.	—	—
a. AMSS authorization report.		
b. Projected FMC rates report.		
c. Equipment exception report.		
d. System status summary.		
e. Class IX failure data by administrative number.		
f. Rollup by EIC.		
g. Rollup by UIC.		
h. NMC report.		

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

References

Required

AR 710-2

DA PAM 710-2-1

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.

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

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

Before evaluation:

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

During evaluation:

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

After evaluation:

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

GLOSSARY**Section I**
Abbreviations

AC	Active Component
app	appendix
AR	Army regulation
C	centigrade
cont	continued
CS	combat support; O-chlorobenzyl-malononitrile
DA	Department of the Army
DA Form	Department of the Army form
DA Pam	Department of the Army pamphlet
DC	Dental Corps
DE	directed energy
DS	direct support
F	Fahrenheit
FM	frequency modulation
IAW	in accordance with
L	left
M	meter
min	minute
mm	millimeter
MOS	military occupational specialty
MSS	Manpower Staffing Standards
NMC	Nonmission Capable
No	number
OP	observation post
OPORD	operations order

ORD	Operational Requirements Document
P	pass
pam	pamphlet
PL	preservative lubricant
PLL	prescribed load list
PMCS	preventive maintenance checks and services
Pract	Practice
R	right
Reg	regiment
S	safe
SAM	surface-to-air missile; soft-structural, aluminum, malleable
sec	second
SOP	standing operating procedure
TM	technical manual
TMDE	test measurement and diagnostic equipment
U	up
ULLS	Unit Level Logistics System
US	United States
USA	United States Army
V	nerve agent
Vol	volume
Z	zulu time (Greenwich Mean Time)

Section II

Terms

Procedure

A standard and detailed course of action that describes how to perform a task.

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 (This Item is Included on EM 0001). 30 September 1993
AR 190-51	Security of Unclassified Army Property (Sensitive and Nonsensitive) (This Item is Included on EM 0001) 30 September 1993
AR 220-1	Unit Status Reporting (This Item is Included on EM 0001) 1 September 1997
AR 25-400-2	The Modern Army Record Keeping System (MARKS) (This Item is Included on EM 0001) 26 February 1993
AR 385-10	The Army Safety Program (This item is included on EM 0001) 23 May 1988
AR 385-40	Accident Reporting and Records (This Item is Included on EM 0001) 1 November 1994
AR 385-55	Prevention of Motor Vehicle Accidents (This item is Included on EM 0001) 12 March 1987
AR 600-55	The Army Driver and Operator Standardization Program (Selection, Training, Testing, and Licensing) (This Item is Included on EM 0001) 31 December 1993
AR 700-138	Army Logistics Readiness and Sustainability (This Item is Included on EM 0001) 16 September 1997
AR 700-4	Logistics Assistance (This Item is Included on EM 0001) 30 June 1995
AR 710-2	Inventory Management Supply Policy Below the Wholesale Level (This Item is on EM 0001) 31 October 1997
AR 725-50	Requisition, Receipt, and Issue System (This Item is Included on EM 0001) 15 November 1995
AR 735-11-1	Uniform Settlement of Military Freight Loss and Damage Claims (This Item is Included on EM 0001) 1 January 1988
AR 735-5	Policies and Procedures for Property Accountability (This Item is Included on EM 0001) 31 January 1998
AR 750-1	Army Materiel Maintenance Policy and Retail Maintenance Operations (This Item is Included on EM 0001) 1 August 1994
AR 750-43	Army Test, Measurement and Diagnostic Equipment Program (This Item Is Included on EM 0001) 28 November 1997

Department of Army Forms

DA FORM 2404	Equipment Inspection And Maintenance Worksheet (This Item is Included on EM 0001) 1 April 1979
DA FORM 5988-E	Equipment Inspection Maintenance Worksheet (EGA) 1 March 1991

Department of Army Pamphlets

DA PAM 25-30	Consolidated Index of Army Publications and Blank Forms (ISSUED QUARTERLY)(No Printed Copies Exist)(Formerly DA Pam 310-1)(This Item is Included on EM 0001) 1 April 2001
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DA PAM 25-33	User's Guide for Army Publications and Forms (This Item is Included on EM 0001) 15 September 1996
DA PAM 710-2-1	Using Unit Supply System (Manual Procedures) (Standalone Pub) (This Item is on EM 0001) 31 December 1997
DA PAM 710-2-2	Supply Support Activity Supply System: Manual Procedures (This Item is on EM 0001) 30 September 1998
DA PAM 738-750	Functional Users Manual for The Army Maintenance Management System (TAMMS) (This Item is Included on EM 0001) 1 August 1994
DA PAM 750-1	Leader's Unit Level Maintenance Handbook (This Item is Included on EM 0001) 15 February 1994

Field Manuals

FM 101-5-1	Operational Terms and Graphics (MCRP 5-2A) 30 September 1997
FM 4-30.3	Maintenance Operations and Procedures 1 September 2000
FM 5-170	ENGINEER RECONNAISSANCE 5 May 1998
FM 5-424	Theater of Operations Electrical Systems 25 June 1997

Other Product Types

AISM 18-L21-AHN-BUR-UM	Standard Army Maintenance System Level 1 (SAMS-1) End User Manual
AISM 18-L26-AHO-BUR-EM	Standard Army Maintenance System Level 2 (SAMS-2) End User Manual

Technical Bulletins

TB 43-0211	AOAP Army Oil Analysis Program Guide For Leaders and Users 4 June 1998
TB 43-180	Calibration and Repair Requirements for the Maintenance of Army Materiel (This Item is Included on EM 0022) 1 December 2000

Technical Manuals

TM 11-5985-368-12&P	Operator's and Organizational Maintenance Manual Including Repair Parts and Special Tools List for Mast Group, Hydraulic-Pneumatic, OA-9054(U)4/G (NSN 5985-01-129-1794) (Reprinted W/Basic Inc C1-5) 27 October 1983
TM 55-1730-229-12	Operator and Organizational Maintenance Manual, Power Unit, Aviation, Multi-Output GTED Electrical, Hydraulic, Pneumatic (AGPU) Wheel Mounted, Self-Propelled, Towable, AC 400 Hz, 3 PH, 0.8PF, 115/200 V, 30 kW, DC 28 VDC 700 AMPS, Pneumatic 1 December 1986
TM 55-1730-229-34	Intermediate (Field), (Direct and General Support) Maintenance Manual Power Unit, Aviation, Multi-Output GTED, Electrical, Hydraulic, Pneumatic (AGPU) Wheel Mounted, Self-Propelled Towable, AC 400 Hz, 3 PH, 0.8 PF, 115/200 V, 30 kW, DC 28 V 1 December 1986
TM 5-6115-271-14	Operator's, Organizational, Direct Support, and General Support Maintenance Manual for Generator Set, Gasoline Engine Driven, Skid Mounted, Tubular Frame, 3 kW, 2 Phase AC, 120/208 and 120/240 V, 28, VDC (Less Engine) 3 August 1976
TM 5-6115-423-15	Operator, Organizational, Direct and General Support and Depot Maintenance Manual for Load Bank, 0.30 KW, AC, Portable, Skid MTD (Sun Electric Corp, Model GPT-3D-1)(NSN 6115-00-964-1091) and (Sun Electric Corp, Model GPT-3D)(6115-00-903-817 10 August 1967
TM 5-6115-440-10	Operator's Maintenance Manual: Generator Set, 7.5 kW, Air Cooled, Two-Wheel Mounted, Pneumatic Tires 2 February 1971
TM 5-6115-440-20	Organizational Maintenance Manual: Generator Set, 7.5 kW, 28 VDC, GED, Air Cooled, Two-Wheel Mounted, Pneumatic Tires 2 February 1971

TM 5-6115-465-12 Operator's and Organizational Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 30 KW, 3 Phase, 4 Wire, 120/208 and 240/416 V (DOD Model MEP-005A), Utility Class 50/60 HZ (NSN 6115-00-118-1240) 31 January 1975

TM 5-6115-465-34 Intermediate (Field) (Direct Support and General Support) and Depot Level Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 30 kW, 3 Phase, 4 Wire, 120/208 and 240/416 V, (DOD Model MEP-005A), Utility, 50/60 Hz 31 January 1975

TM 5-6115-545-12 Operator's and Organizational Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid MTD, 60 kW, 3 Phase, 4 Wire, 120/208 and 240/416 Volts, DOD Model MEP-006A, Utility Class, 50/60HZ (NSN 6115-00-118-1243) DOD Model MEP- 10 June 1973

TM 5-6115-545-12-HR Hand Receipt and Manual Covering Components of End Item (COEI), Basic Issue Items (BII), and Additional Authorization List (AAL) for Generator Set, Diesel Engine Driven, Tactical Skid MTD, 60KW, 3 Phase, 4 Wire, 120/208 and 240/416V 8 February 1980

TM 5-6115-545-34 Intermediate (Field) (Direct and General Support) and Depot Maintenance Manual Generator Set, Diesel Engine Driven, Tactical Skid Mtd, 60 kW, 3 Phase, 4 Wire, 120/208 and 240/416 Volts, DOD Models MEP-006A, Utility Class, 50/60 Hz, (NSN 61 10 June 1973

TM 5-6115-584-12 Operator and Organizational Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical, Skid Mounted, 5 kW 22 July 1977

TM 5-6115-584-34 Intermediate (Field) DS/GS and Depot Level Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 5 kW, 1 Phase, 2 Wire, 1 Phase, 3 Wire, 3 Phase, 4 Wire, 120, 120/240 and 120/208 V (DOD Model MEP-002A), Utility 22 July 1977

TM 5-6115-585-12 Operator and Organizational Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical, Skid Mounted, 10 kW 25 July 1977

TM 5-6115-585-34 Intermediate (Field) (Direct and General Support) and Depot Level Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 10 kW, 1 Phase, 2 Wire, 1 Phase, 3 Wire, 3 Phase, 4 Wire, 120, 120/240 and 120/208 V (DOD M 25 July 1977

TM 5-6115-586-12 Operator's and Organizational Maintenance Manual: Power Plant, Utility (MUST), Gas Turbine Engine Driven 5 June 1972

TM 5-6115-590-12 Operator's and Organizational Maintenance Manual: Power Plant, Utility (MUST), Gas Turbine Engine Driven 29 March 1977

TM 5-6115-590-34 Direct Support and General Support Maintenance Manual for Power Plant Utility (MUST) Gas Turbine Engine Driven 12 May 1977

TM 5-6115-593-12 Operator and Organizational Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 500 kW 17 July 1990

TM 5-6115-596-14 Operator's, Organizational, Direct Support and General Support Maintenance Manual for Generator Set, Gasoline Engine Driven, 4.2 kW 20 June 1980

TM 5-6115-600-12 Operator's and Organizational Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical, Skid Mounted, 100 kW 1 February 1982

TM 5-6115-600-34 Intermediate (Field) DS/GS and Depot Level Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 100 kW, 3 Phase, 4 Wire, 120/208 and 240/416 V (DOD Model MEP-007B), Class Utility, 50/60 Hz Including Optional Ki 1 February 1982

TM 5-6115-612-12 Operator's and Unit Maintenance Manual Gas Turbine Engine Driven Aviation Generator Set 19 November 1987

TM 5-6115-612-34 Intermediate (Field), (Direct and General Support) and Depot: Maintenance Manual, Generator Set, Aviation, Gas Engine Driven,

Integral Trailer Mounted, 10 kW, 28 Volts DOD Model MEP-362A, Precise, DC 25 July 1988

TM 5-6115-614-12 Operator and Organizational Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical, Skid Mounted, 200 kW 15 July 1986

TM 5-6115-615-12 Operator and Organizational Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical and Skid Mounted, 3 kW 31 July 1987

TM 5-6115-615-34 Intermediate (Field) DS/GS Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 3 kW, 3 Phase, 120/208 and Single Phase 120/240 VAC and 28 V DS, DOD Model MEP-016B, Class Utility, Mode 60 Hz; DOD Model MEP-021B, C 31 July 1987

TM 5-6115-629-14&P Operator, Unit, Intermediate, Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools List) for Power Plant AN/AMJQ-12A (NSN 6115-00-257-1602) (2) MEP-006A, 60KW, 60HZ, Generator Sets (2) M200A1 2-Wh 17 June 1988

TM 9-2815-252-24 Unit, Direct Support and General Support Maintenance Instructions for Diesel Engine Model DN2M 1 September 1993

TM 9-2815-253-24 Unit, Direct Support, and General Support Maintenance Instructions 15 September 1993

TM 9-2815-253-24P Unit, Direct Support, and General Support Maintenance Instructions 30 October 1996

TM 9-2815-254-24 Unit, Direct Support and General Support Maintenance Instructions for Diesel Engine Model C-240PW-28 1 September 1993

TM 9-2815-256-24 Unit, Direct Support, and General Support Maintenance Instructions 15 September 1993

TM 9-3431-265-14&P Operator's, Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts List for Welding Machines(Hobart Brothers Co., Models RCC-610, 27,H4 and GA-600)(NSN 3431-00-935-7913) 8 February 1988

TM 9-3431-266-14&P-1 Operator's, Organizational, Direct Support, and General Support Maintenance Manual Including Repair Parts and Special Tools List for Welding Machine Model DCC-353-P (NSN 3431-01-079-8439)(This Item is Included on EM 0072) 5 August 1988

TM 9-3431-266-14&P-2 Operator's, Organizational, Direct Support, and General Support Maintenance Manual Including Repair Parts and Special Tools List for Welding Machine Model DCC-353-P (NSN 3431-01-079-8439)(This Item is Included on EM 0072) 5 August 1988

TM 9-3431-272-13&P Operator's, Unit,and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Welding Shop, Trailer Mounted Model 11838792 (NSN 3431-01-341-6232)(This Item is Included on EM 0072) 26 October 1994

TM 9-6115-464-12 Operator and Unit Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid MTD 15 KW, 3Phase, 4 Wire, 120/208 and 240/416 Volts DOD Model MED-004A Utility Class 50/60 Hertz(NSN 6115-00-118-1241) DOD Model MEP-103A Precise 30 July 1993

TM 9-6115-542-24&P Unit, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools List (RPSTL) for External Auxiliary Power Unit (EAPU)(NSN 6115-01-369-7465)(12387361) [TM 9-6115-24&P/1] (This Item is Included on EM 0069) 17 May 1999

TM 9-6115-545-24P Unit, Direct and General Support, and DEPOT Maintenance Repair Parts and Special Tools List for Generator Set, Diesel Engine Driven, Tactical, Skid Mtd, 60 KW, 3 Phase, 4 Wire, 120/208 and 240/416 Volts, DOD Models MEP-006A Utility Class, 28 June 1995

TM 9-6115-624-BD	Battlefield Damage Assessment and Repair for Generators (This item is included on EM 0086) 28 September 1990
TM 9-6115-639-13	Operator's, Unit, And Direct Support Maintenance Manual For 3KW Tactical Quiet Generator Set, MEP 831A (60 HZ) (NSN 6115-01-285-3012) (EIC: VG6); MEP 832A (400 HZ) (NSN 6115-01-287-2431) (EIC: VN7) [TO 35C2-3-386-51; TM 10155A-13/1] 1 November 2000
TM 9-6115-641-10	Operator's Manual for Generator Set Skid Mounted, Tactical Quiet 5 KW 30 December 1992
TM 9-6115-641-24	Unit, Direct Support and General Support Maintenance Manual for Generator Set, Skid Mounted, Tactical Quiet 5 KW 1 September 1993
TM 9-6115-642-10	Operator's Manual for Generator Set, Skid Mounted, Tactical Quiet, 10 KW 30 December 1992
TM 9-6115-642-24	Unit, Direct Support and General Support Maintenance Manual for Generator Set, Skid Mounted, Tactical Quiet, 10KW 1 September 1993
TM 9-6115-643-10	Operator's Manual, Generator Set, Skid Mounted, Tactical Quiet 15Kw 30 December 1992
TM 9-6115-643-24	Unit, Direct Support and General Support Maintenance Manual for Generator Set, Skid Mounted, Tactical Quiet 15KW 1 September 1993
TM 9-6115-644-10	Operator's Manual, Generator Set, 30 Kw, Skid Mounted, Tactical Quiet 30 July 1983
TM 9-6115-644-24	Unit, Direct Support And General Support Maintenance Manual For Generator Set, Skid Mounted, Tactical Quiet 30 KW, 50/60 And 400 HZ MEP-805A (50/60 HZ) (NSN 6115-01-274-7389) MEP-815A (400 HZ) (6115-01-274-7394) 30 April 1995
TM 9-6115-645-10	Operator's Manual, Generator Set, Skid Mounted, Tactical Quiet, 60 Kw 30 July 1993
TM 9-6115-645-24	Unit, Direct Support and General Support Maintenance Manual for Generator Set, Skid Mounted, Tactical Quiet 60KW 1 September 1993
TM 9-6115-663-13&P	Operator, Unit, and Direct Support Maintenance Manual Including Repair Parts and Special Tools List for Power Unit, Diesel Engine Driven, 2.5 Ton Trailer-Mounted, 6.0 KW, 50/60 HZ, PU-805 15 October 1993
TM 9-6115-668-13	Operator, Unit, and Direct Support Maintenance Manual for Generator Set, Diesel Engine Driven, Skid Mounted, 150 Kw, 400 Hz, Alternating Current (NSN 6115-12-337-8494) (This Item is Included On EM 0086 and EM 0133) 1 June 1998
TM 9-8000	Principles of Automotive Vehicles (Reprinted W/Basic Incl C1) 25 October 1985

Related Publications

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

Army Regulations

AR 25-11	Record Communications and the Privacy Communications System (This Item is Included on EM 0001) 4 September 1990
AR 385-10	The Army Safety Program (This item is included on EM 0001) 23 May 1988

AR 385-40 Accident Reporting and Records (This Item is Included on EM 0001) 1 November 1994

AR 385-55 Prevention of Motor Vehicle Accidents (This item is Included on EM 0001) 12 March 1987

Department of Army Forms

DA FORM 5988-E Equipment Inspection Maintenance Worksheet (EGA) 1 March 1991

Department of Army Pamphlets

DA PAM 738-750 Functional Users Manual for The Army Maintenance Management System (TAMMS) (This Item is Included on EM 0001) 1 August 1994

Field Manuals

FM 101-5-1 Operational Terms and Graphics (MCRP 5-2A) 30 September 1997

FM 11-60 Communications-Electronic Fundamentals: Basic Principles, Direct Current 8 November 1982

FM 11-61 Communications-Electronics Fundamentals: Basic Principles Alternating Current 8 November 1982

FM 11-62 Communications-Electronics Fundamentals: Solid State Devices and Solid State Power Supplies 30 September 1983

FM 5-170 ENGINEER RECONNAISSANCE 5 May 1998

FM 5-424 Theater of Operations Electrical Systems 25 June 1997

Lubrication Orders

LO 5-6115-615-12 Generator Set, Diesel Engine Driven: Tactical, Skid Mounted, 3 kW

Other Product Types

EM 0074 Consolidated Publication Of Component Lists (All Items Contained On This CD-ROM Are Dated 01 Sep 00) (This Product Includes The Following Items) 1 September 2000

Technical Manuals

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

TM 5-6115-271-14 Operator's, Organizational, Direct Support, and General Support Maintenance Manual for Generator Set, Gasoline Engine Driven, Skid Mounted, Tubular Frame, 3 kW, 2 Phase AC, 120/208 and 120/240 V, 28, VDC (Less Engine) 3 August 1976

TM 5-6115-423-15 Operator, Organizational, Direct and General Support and Depot Maintenance Manual for Load Bank, 0.30 KW, AC, Portable, Skid MTD (Sun Electric Corp, Model GPT-3D-1)(NSN 6115-00-964-1091) and (Sun Electric Corp, Model GPT-3D)(6115-00-903-817 10 August 1967

TM 5-6115-440-10 Operator's Maintenance Manual: Generator Set, 7.5 kW, Air Cooled, Two-Wheel Mounted, Pneumatic Tires 2 February 1971

TM 5-6115-440-20 Organizational Maintenance Manual: Generator Set, 7.5 kW, 28 VDC, GED, Air Cooled, Two-Wheel Mounted, Pneumatic Tires 2 February 1971

TM 5-6115-465-12 Operator's and Organizational Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 30 KW, 3 Phase, 4 Wire, 120/208 and 240/416 V (DOD Model MEP-005A), Utility Class 50/60 HZ (NSN 6115-00-118-1240) 31 January 1975

TM 5-6115-465-34 Intermediate (Field) (Direct Support and General Support) and Depot Level Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 30 kW, 3 Phase, 4 Wire, 120/208 and 240/416 V, (DOD Model MEP-005A), Utility, 50/60 Hz 31 January 1975

TM 5-6115-545-12 Operator's and Organizational Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid MTD, 60 kW, 3 Phase, 4 Wire, 120/208 and 240/416 Volts, DOD Model MEP-006A, Utility Class, 50/60HZ (NSN 6115-00-118-1243) DOD Model MEP- 10 June 1973

TM 5-6115-545-12-HR Hand Receipt and Manual Covering Components of End Item (COEI), Basic Issue Items (BII), and Additional Authorization List (AAL) for Generator Set, Diesel Engine Driven, Tactical Skid MTD, 60KW, 3 Phase, 4 Wire, 120/208 and 240/416V 8 February 1980

TM 5-6115-545-34 Intermediate (Field) (Direct and General Support) and Depot Maintenance Manual Generator Set, Diesel Engine Driven, Tactical Skid Mtd, 60 kW, 3 Phase, 4 Wire, 120/208 and 240/416 Volts, DOD Models MEP-006A, Utility Class, 50/60 Hz, (NSN 61 10 June 1973

TM 5-6115-584-12 Operator and Organizational Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical, Skid Mounted, 5 kW 22 July 1977

TM 5-6115-584-34 Intermediate (Field) DS/GS and Depot Level Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 5 kW, 1 Phase, 2 Wire, 1 Phase, 3 Wire, 3 Phase, 4 Wire, 120, 120/240 and 120/208 V (DOD Model MEP-002A), Utility 22 July 1977

TM 5-6115-585-12 Operator and Organizational Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical, Skid Mounted, 10 kW 25 July 1977

TM 5-6115-585-34 Intermediate (Field) (Direct and General Support) and Depot Level Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 10 kW, 1 Phase, 2 Wire, 1 Phase, 3 Wire, 3 Phase, 4 Wire, 120, 120/240 and 120/208 V (DOD M 25 July 1977

TM 5-6115-586-12 Operator's and Organizational Maintenance Manual: Power Plant, Utility (MUST), Gas Turbine Engine Driven 5 June 1972

TM 5-6115-590-12 Operator's and Organizational Maintenance Manual: Power Plant, Utility (MUST), Gas Turbine Engine Driven 29 March 1977

TM 5-6115-590-34 Direct Support and General Support Maintenance Manual for Power Plant Utility (MUST) Gas Turbine Engine Driven 12 May 1977

TM 5-6115-593-12 Operator and Organizational Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 500 kW 17 July 1990

TM 5-6115-596-14 Operator's, Organizational, Direct Support and General Support Maintenance Manual for Generator Set, Gasoline Engine Driven, 4.2 kW 20 June 1980

TM 5-6115-600-12 Operator's and Organizational Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical, Skid Mounted, 100 kW 1 February 1982

TM 5-6115-600-34 Intermediate (Field) DS/GS and Depot Level Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 100 kW, 3 Phase, 4 Wire, 120/208 and 240/416 V (DOD Model MEP-007B), Class Utility, 50/60 Hz Including Optional Ki 1 February 1982

TM 5-6115-612-12 Operator's and Unit Maintenance Manual Gas Turbine Engine Driven Aviation Generator Set 19 November 1987

TM 5-6115-612-34 Intermediate (Field), (Direct and General Support) and Depot: Maintenance Manual, Generator Set, Aviation, Gas Engine Driven, Integral Trailer Mounted, 10 kW, 28 Volts DOD Model MEP-362A, Precise, DC 25 July 1988

TM 5-6115-614-12 Operator and Organizational Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical, Skid Mounted, 200 kW 15 July 1986

TM 5-6115-615-12	Operator and Organizational Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical and Skid Mounted, 3 kW 31 July 1987
TM 5-6115-615-34	Intermediate (Field) DS/GS Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 3 kW, 3 Phase, 120/208 and Single Phase 120/240 VAC and 28 V DS, DOD Model MEP-016B, Class Utility, Mode 60 Hz; DOD Model MEP-021B, C 31 July 1987
TM 5-6115-629-14&P	Operator, Unit, Intermediate, Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools List) for Power Plant AN/AMJQ-12A (NSN 6115-00-257-1602) (2) MEP-006A, 60KW, 60HZ, Generator Sets (2) M200A1 2-Wh 17 June 1988
TM 9-1425-450-34-2	Direct Support and General Support Maintenance Manual, Theory of Operation and Schematic Diagrams, TOW 2 Weapon System, M220A2 (NSN 1440-01-104-9834). 25 May 1983. 16 March 1994
TM 9-2815-252-24	Unit, Direct Support and General Support Maintenance Instructions for Diesel Engine Model DN2M 1 September 1993
TM 9-2815-254-24	Unit, Direct Support and General Support Maintenance Instructions for Diesel Engine Model C-240PW-28 1 September 1993
TM 9-2815-256-24	Unit, Direct Support, and General Support Maintenance Instructions 15 September 1993
TM 9-3431-266-14&P-1	Operator's, Organizational, Direct Support, and General Support Maintenance Manual Including Repair Parts and Special Tools List for Welding Machine Model DCC-353-P (NSN 3431-01-079-8439)(This Item is Included on EM 0072) 5 August 1988
TM 9-4935-451-14	Operator, Organizational, Direct Support and General Support Maintenance Manual for Shop Equipment, Guided Missile, AN/TSM-153 Improved Contact Support Set (ICSS) (NSN 4940-01-154-3957) for TOW 2 Heavy Antitank/Assault Weapon System Dragon 12 August 1983
TM 9-6115-464-12	Operator and Unit Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid MTD 15 KW, 3Phase, 4 Wire, 120/208 and 240/416 Volts DOD Model MED-004A Utility Class 50/60 Hertz(NSN 6115-00-118-1241) DOD Model MEP-103A Precise 30 July 1993
TM 9-6115-542-24&P	Unit, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools List (RPSTL) for External Auxiliary Power Unit (EAPU)(NSN 6115-01-369-7465)(12387361) [TM 9-6115-24&P/1] (This Item is Included on EM 0069) 17 May 1999
TM 9-6115-545-24P	Unit, Direct and General Support, and DEPOT Maintenance Repair Parts and Special Tools List for Generator Set, Diesel Engine Driven, Tactical, Skid Mtd, 60 KW, 3 Phase, 4 Wire, 120/208 and 240/416 Volts, DOD Models MEP-006A Utility Class, 28 June 1995
TM 9-6115-624-BD	Battlefield Damage Assessment and Repair for Generators (This item is included on EM 0086) 28 September 1990
TM 9-6115-639-13	Operator's, Unit, And Direct Support Maintenance Manual For 3KW Tactical Quiet Generator Set, MEP 831A (60 HZ) (NSN 6115-01-285-3012) (EIC: VG6); MEP 832A (400 HZ) (NSN 6115-01-287-2431) (EIC: VN7) [TO 35C2-3-386-51; TM 10155A-13/1] 1 November 2000
TM 9-6115-641-10	Operator's Manual for Generator Set Skid Mounted, Tactical Quiet 5 KW 30 December 1992
TM 9-6115-641-24	Unit, Direct Support and General Support Maintenance Manual for Generator Set, Skid Mounted, Tactical Quiet 5 KW 1 September 1993
TM 9-6115-642-10	Operator's Manual for Generator Set, Skid Mounted, Tactical Quiet, 10 KW 30 December 1992
TM 9-6115-642-24	Unit, Direct Support and General Support Maintenance Manual for Generator Set, Skid Mounted, Tactical Quiet, 10KW 1 September 1993

TM 9-6115-643-10	Operator's Manual, Generator Set, Skid Mounted, Tactical Quiet 15Kw 30 December 1992
TM 9-6115-643-24	Unit, Direct Support and General Support Maintenance Manual for Generator Set, Skid Mounted, Tactical Quiet 15KW 1 September 1993
TM 9-6115-644-10	Operator's Manual, Generator Set, 30 Kw, Skid Mounted, Tactical Quiet 30 July 1983
TM 9-6115-644-24	Unit, Direct Support And General Support Maintenance Manual For Generator Set, Skid Mounted, Tactical Quiet 30 KW, 50/60 And 400 HZ MEP-805A (50/60 HZ) (NSN 6115-01-274-7389) MEP-815A (400 HZ) (6115-01-274-7394) 30 April 1995
TM 9-6115-645-10	Operator's Manual, Generator Set, Skid Mounted, Tactical Quiet, 60 Kw 30 July 1993
TM 9-6115-645-24	Unit, Direct Support and General Support Maintenance Manual for Generator Set, Skid Mounted, Tactical Quiet 60KW 1 September 1993
TM 9-6115-663-13&P	Operator, Unit, and Direct Support Maintenance Manual Including Repair Parts and Special Tools List for Power Unit, Diesel Engine Driven, 2.5 Ton Trailer-Mounted, 6.0 KW, 50/60 HZ, PU-805 15 October 1993
TM 9-6115-668-13	Operator, Unit, and Direct Support Maintenance Manual for Generator Set, Diesel Engine Driven, Skid Mounted, 150 Kw, 400 Hz, Alternating Current (NSN 6115-12-337-8494) (This Item is Included On EM 0086 and EM 0133) 1 June 1998
TM 9-8000	Principles of Automotive Vehicles (Reprinted W/Basic Incl C1) 25 October 1985

Training Support Packages

52D34G04	AC Circuits 15-60 KW TQG 1 October 2000
52D35H03	DC Circuits 15-60 KW 1 October 2000

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By Order of the Secretary of the Army:

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