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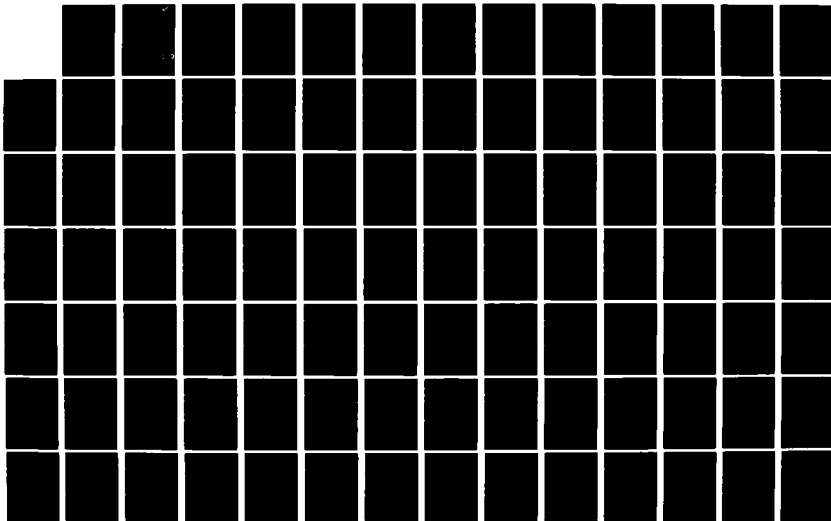
JOB LANGUAGE PERFORMANCE REQUIREMENTS FOR MOS 63H
AUTOMOTIVE REPAIRMAN RE. (U) DEFENSE LANGUAGE INST
LACKLAND AFB TX ENGLISH LANGUAGE CENTER. 22 MAY 76

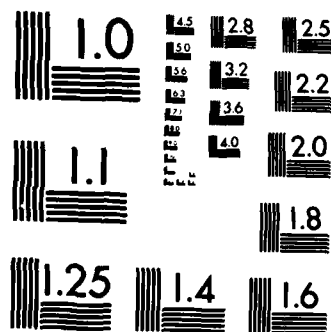
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JOB LANGUAGE PERFORMANCE REQUIREMENTS
FOR 463H
MOS
AUTOMOTIVE REPAIRMAN

REFERENCE SOLDIER'S MANUAL DATED

22 May 1976

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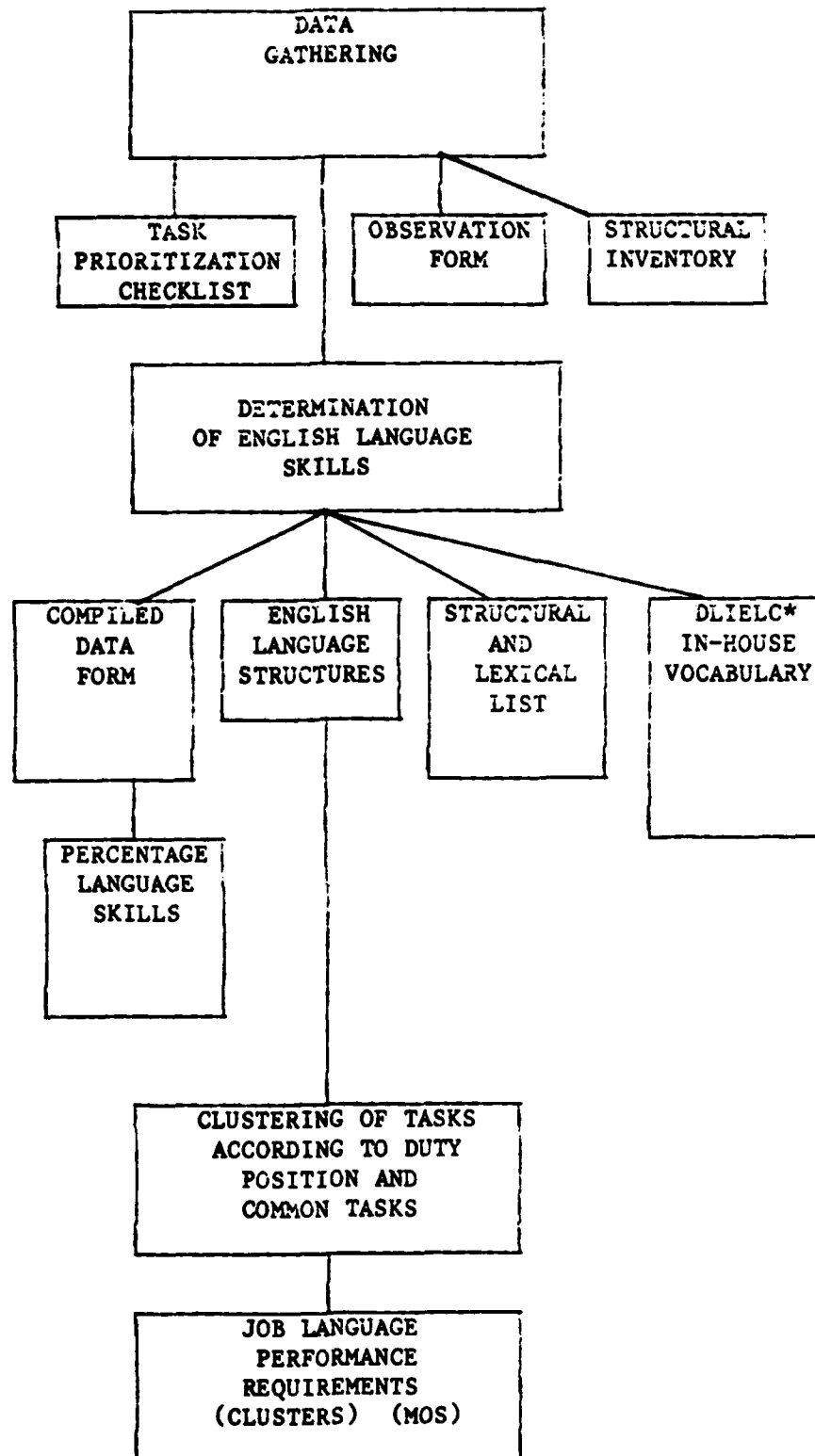


FIGURE 1

*Defense Language Institute English Language Center

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The Job Language Performance Requirements (JLPR) study was conducted to deter- mine language tasks the soldier must do in studying/performing job tasks. The language skills (listening, reading, writing, speaking) required to learn each Army job task were identified, conditions studied and standards determined. The data that generated the JLPR is identified.			

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PREFACE

INSTRUCTIONS FOR REVIEW OF JOB LANGUAGE PERFORMANCE REQUIREMENTS

This report is organized in six main sections. Sections I-IV discuss methods, forms and rationale for gathering, organizing and analyzing research data used to develop Job Language Performance Requirements (JLPR). Please look through these sections to get a general understanding of the background underlying the JLPR. Sections V and VI are the major substantive portions of the analysis. They are the results of the analysis and constitute the basis for development of any MOS-oriented English language materials. Section V contains the JLPR by cluster/topic, while Section VI contains the JLPR covering the entire range of clusters/topics.

The appendices, one through eight, contain all the information used to determine the Job Language Performance Requirements. Please write any suggestions or changes directly on the document or attach additional notes, if necessary.

The points covered in the six major sections are supported in greater detail in eight appendices. Below is an overview of these appendices.

Appendix one contains the Task Prioritization Checklist. It was taken to the field to collect the raw data. This form was approved for use by the Department of the Army.

Appendix two contains the Task Inventory Compiled Data Form. It was used to organize data from Unit and AIT respondents.

Appendix three defines the language skills by percentage. This form includes computations of language skills for each task cluster.

Appendix four contains the Observation Form used in the recording of types of listening and speaking skills required, as seen by observers, in the learning and performing of a task. The variety of environmental situations is also included on this form.

Appendix five contains the final list of structural and lexical items found through data gathering and organization.

Appendix six contains the DLIELC in-house vocabulary list. This is a task by task listing of the vocabulary extracted from the Soldier's Manual.

Appendix seven contains the machine-generated vocabulary for this MOS prepared by the United States Army Training and Doctrine Command (TRADOC), Fort Monroe, Virginia.

Appendix eight contains the list of structural and lexical items requisite to this MOS.

Thank you for your cooperation. It is greatly appreciated.

SECTION I

DATA GATHERING

INTRODUCTION

This section discusses the procedures and forms in the gathering of data used to determine the Job Language Performance Requirements for this MOS.

SECTION I: DATA GATHERING

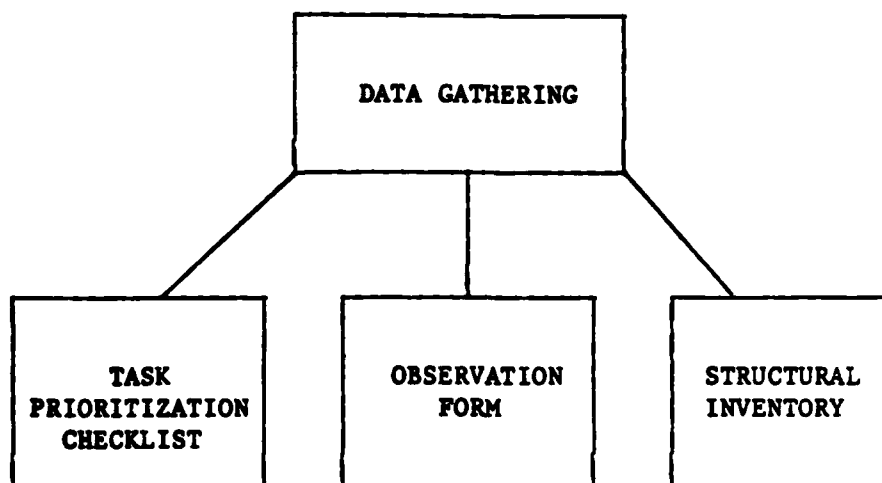


FIGURE 2

In order to establish Job Language Performance Requirements for this MOS the curriculum development specialists at the Defense Language Institute English Language Center (DLIELC) analyzed the current learning and working situations, and individual tasks. The goal was to collect data which would help identify the Job Language Performance Requirements pertinent to this MOS.

To conduct this analysis, training specialists visited the AIT School and Unit cadre. Interviews were conducted using a Task Prioritization Checklist, (Appendix 1). For each task, first-line supervisors answered the following questions:

1. Is the task taught?
2. How is the task taught?
3. Is the task tested?
4. How is the task tested?
5. How important are speaking, listening, reading and writing in learning and performing the task?
6. What are the results of poor performance in performing the task.

Additional data were gathered through use of an Observation Form and an analysis of language structures in the Soldier's Manual for this MOS.

The Observation Form (Appendix 4) was used to record actual observations of the learning situations, populations, tasks, and language.

The lexical and structural analysis was done by a panel of language specialists who first listed all structures found in the Soldier's Manual for this MOS and then all structures, standard and non-standard, noted on the Observation Forms for all vocabulary from the Soldier's Manual. All lists were then combined into an overall lexical and structural inventory.

SUMMARY/CONCLUSION:

The tools for data gathering were:

1. The Task Prioritization Checklist (Appendix 1)
2. The Task Inventory Compiled Data Form (Appendix 2)
3. The Observation Form (Appendix 4)
4. A Structural and Lexical Inventory (consisting of rough drafts of all vocabulary and structures in this MOS).

These tools were used to form the data pool from which the Job Language Requirements were determined.

SECTION II

DETERMINATION OF ENGLISH LANGUAGE SKILLS

INTRODUCTION

This section discusses the organization of the raw data into information used to determine the English language skills pertinent to this MOS.

SECTION II: DETERMINATION OF ENGLISH LANGUAGE SKILLS

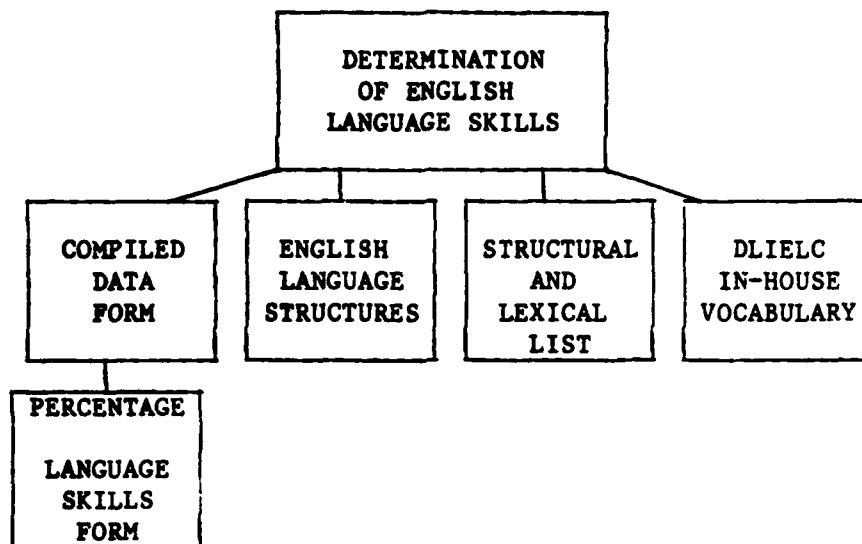


FIGURE 3

The raw data collected as described in Section II above was used to determine the English Language skills which the soldier must learn to learn and perform the task. The Compiled Data Form, Appendix 2, was used to organize the observation and analysis data. Selected information from the Task Prioritization Checklist was recorded directly on this form. Specifically three variables were used to determine the language skills involved. They were:

1. Methods of teaching.
2. Methods of testing.
3. The actual respondents' ratings of the four English language skills.

From each of the three variables the following skills were determined:

VARIABLE	ENGLISH LANGUAGE SKILLS
Methods of Teaching demonstration lecture hands on self-paced	listening, listening, writing listening reading, writing

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Methods of Testing performance oral written	listening speaking writing, reading
Rating of English Language Skills listening speaking reading writing	*a response of 2 or 3 on a scale of 1 to 3 was tallied a response of 1, 2, or 3 on a scale of 1 to 5 was tallied

*See A1

In order to determine the relations of the various skills in the MOS, data from the three variables were tallied on the Percentage Language Skills Form. An average was then found using the following formula:

$$TR \div TxVxR = \% \text{ of use}$$

T = total number of tasks per cluster

V = language skill variable per cluster**

R = maximum number of respondents in any task in that cluster

TR = total tally of responses per task per skill

% of use = use of the language skill in the task

Percentages found in this MOS were:

Listening	26%
Speaking	17%
Reading	17%
Writing	16%

As shown by the figures, listening is the most important skill in this MOS. However, in particular duty sections, percentages varied. Appendix 3, the Percentage Language Skills Form, shows the actual skill percentages in each duty position.

**See A3

Organization of structural and lexical items was done by comparing a structural and lexical list extracted from the Soldier's Manual with a structural inventory list extracted from ALC (American Language Center) materials through Volume 2400, at the end of which a trainee is normally qualified for Specialized English Technical Terminology training. By comparing the lists redundancies were eliminated, leaving the final list of structural and lexical items indicated by grammatical title in Appendix 5.

SUMMARY/CONCLUSION:

Organization of the data included the recording of responses on the Task Inventory Compiled Data Form, use of the Percentage Language Skills Form, and the DLIELC in-house structural analysis list. Skills were analyzed by duty section. The actual lexical items in this MOS were grouped and listed task by task. This information was then used to determine the specific Job Language Performance Requirements.

SECTION III

CLUSTERING OF COMMON AND DUTY POSITION TASKS

INTRODUCTION

Due to the overlapping of certain elements among the various MOS, tasks were clustered in order to prevent duplication of effort for each MOS.

This section contains a listing of the clusters for this MOS.

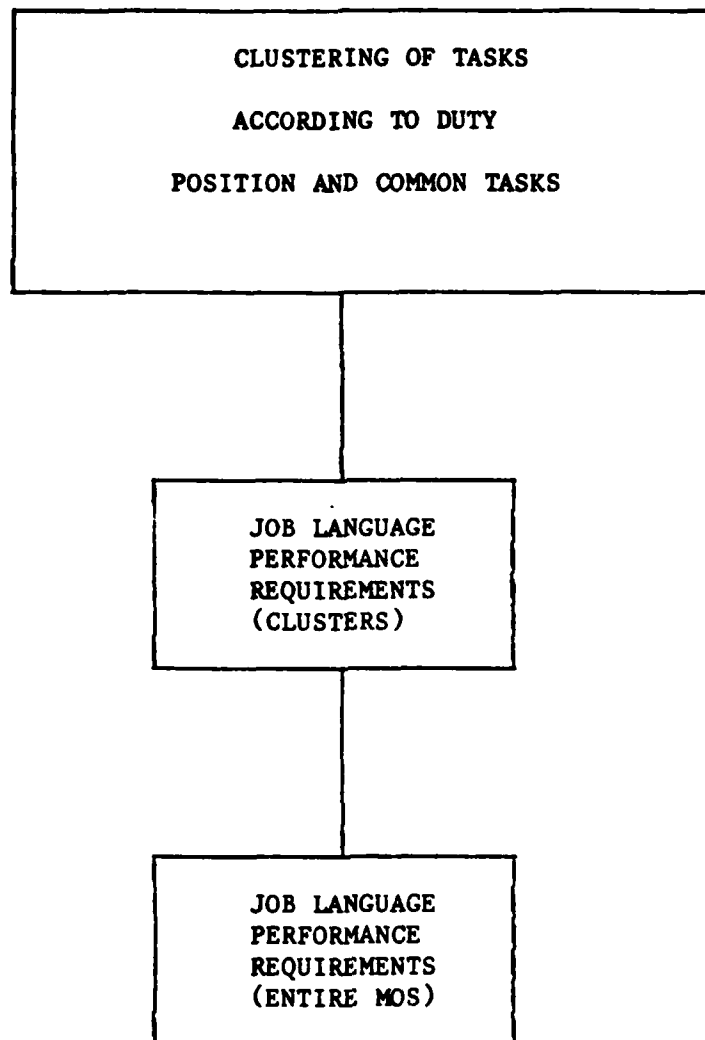


FIGURE 4

SECTION III: CLUSTERING OF COMMON AND DUTY POSITION TASKS

Clustering was done by using the common and duty position tasks in the Soldier's Manual.

The following clusters are in this MOS:

1. FIRST AID
2. NUCLEAR, BIOLOGICAL AND CHEMICAL OPERATIONS
3. INDIVIDUAL FITNESS
4. CAMOUFLAGE
5. LAND NAVIGATION
6. M16A1 RIFLE
7. LOGISTICAL MANAGEMENT
8. SUPPLY
9. MAINTENANCE
10. TEST, MEASUREMENT AND DIAGNOSTIC EQUIPMENT
11. REPAIR AND MAINTENANCE OF WHEELED VEHICLES
12. REPAIR AND MAINTENANCE OF MEDIUM TANKS
13. REPAIR AND MAINTENANCE OF HOWITZERS AND LIGHT TRACKED VEHICLES
14. TROUBLESHOOTING OF AUTOMOTIVE EQUIPMENT
15. INSPECTION OF AUTOMOTIVE EQUIPMENT
16. TESTING OF AUTOMOTIVE EQUIPMENT
17. REPAIR AND ADJUSTMENT OF AUTOMOTIVE EQUIPMENT

SECTION IV

JOB LANGUAGE PERFORMANCE REQUIREMENTS

INTRODUCTION

This section discusses the format for the Job Language Performance Requirements.

SECTION IV: JOB LANGUAGE PERFORMANCE REQUIREMENTS

The format for the Job Language Performance Requirements is:

TASK:
CONDITION:
STANDARD:

A. TASK

The Job Language Performance Requirements state the language tasks the soldier must do in studying/performing specific MOS job tasks. A task addressing language would be one of reading, listening, speaking or writing. Job tasks, as seen in the Soldier's Manual, are those which pertain to the soldier's duties. To write these as language tasks required the following explanations of what the soldier would speak, read, listen and write. Below are the kinds of explanations that had to be made in this MOS.

SPEAKING

Produces oral utterances to report/inform/explain/elicit response/respond.

Analysis of this MOS indicates verbal reports entailing those activities directly related to the soldier's job tasks.

The speaking act to respond or elicit response in this MOS is an oral response to a command or visual signal.

Speaking to explain involves situations of instruction in any training situation.

Speaking to inform involves producing oral utterances to communicate necessary information.

READING

Read for information/to learn.

Printed and written materials are used throughout this MOS. The soldier is expected to read technical manuals, field manuals, soldier's manual, written communication and audio-visual aids. Content of these materials is presented in formats and styles ranging from simple factual words or sentences to complex passages containing highly technical vocabulary, often with ellipsis. The purpose is to teach the student, so the student reads them to learn. Reading to learn involves reading names, attributes, information, procedures, explanations of how systems work, concepts, vocabulary terms, and definitions which are committed to short or long term memory for immediate or later recognition.

Basically, the soldier will use these reading materials to supplement what is stated in a lecture by integrating the information from the different texts or written communiques into his understanding of the previous lecture.

The soldier must develop the ability to understand the words in context, to read in thought units, and then select and understand the main ideas. The soldier must retain, apply, and integrate these ideas with past experience to use in his MOS.

Reading to learn, then, is a synthesis. What is read is to be retained in memory for integration in new experiences.

Reading for information, on the other hand, is quite different. The read material is to be retained only in short term memory, used for a specific purpose (i.e., look up a metric equivalent of 37 pounds) and then forgotten.

LISTENING

Listen to oral information to learn/to report.

In this MOS, lecture is a main method of instruction. The lecture is often supplemented by a demonstration. The soldier listens to the lecture to learn data pertinent to the task. Analysis of lecture presentations indicated many language variables. The soldier hears sub-standard usages, various registers of style and formality, colloquialisms, even profanity, in situations ranging from a barracks to a field. The soldier must differentiate between the types of language functions. Is it expression, exchange, description, explanation, argumentation, persuasion, statement, request, or order? The oral information may be directly from the speaker and/or indirectly such as over the telephone, radio, TV, or tape. The soldier must organize and gain meaning from what is heard. Out of all these variables, the soldier must identify or infer the main ideas or major points.

Analysis of this MOS did not and could not specify all types of spontaneous language the soldier would be exposed to. The POI, though, does show the general form of the constrained oral language the soldier must listen to in order to learn the task.

B. CONDITIONS

The condition is what the soldier will be given in order to do the task. For the MOS job, the soldier is given paper, pencil, and printed materials. For language purposes, he will be given certain structural and lexical features as found through the data gathering and organizing from interviews and observations. Again, for the job that the soldier will be given, the material may be under normal working conditions, though other conditions may be added such as with or without protective gear or in darkness.

The soldier will read lists, tables, procedures, checklists or signs, and will hear scenarios, lectures, explanations, and commands. Therefore, these are listed with the Job Language Performance Requirements as possible conditions.

C. STANDARDS

The standard for our purpose is 100%. A standard for understanding or speaking cannot be tested as saying the soldier will disassemble a .45 caliber pistol in eight minutes. Because of this, 100% understandable speech or 100% legibility is used as a reference.

SUMMARY/CONCLUSION:

The Job Language Performance Requirements including tasks, conditions, and standards, were first written for each task cluster. The clusters were then combined into the Job Language Performance Requirements for the entire MOS.

SECTION V

JOB LANGUAGE PERFORMANCE REQUIREMENTS (CLUSTERED)

INTRODUCTION

Sections I, II, III, and IV described how Job Language Performance Requirements were identified and constructed.

This section contains the Job Language Performance Requirements for each task cluster pertinent to this MOS.

FIRST AID

I. PERCENTAGE LANGUAGE SKILLS

Listening	32%
Speaking	27%
Reading	13%
Writing	15%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Listen to respond
CONDITIONS:	Given a medical scenario involving simple questions about an illness in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral utterances
TASK:	Produce oral utterances to explain
CONDITIONS:	Given a simple medical scenario requiring an oral interpretation in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of procedures, explanations and references
STANDARDS:	100% understanding of printed content

III. TASK NUMBERS AND TITLES

091-63A-1070	Determine First Aid Measures to be Applied to a Casualty
091-63A-1071	Perform Artificial Respiration Using Chest Pressure-Arm Lift Method
091-63A-1072	Perform Artificial Respiration Using Mouth-to-Mouth Method

091-63A-1073 Stop the Bleeding of a Wound
091-63A-1074 Administer Shock Control Measures to a Casualty
091-63A-2075 Describe First Aid Treatment of Burns
091-63A-2076 Apply First Aid Measures for Fractures, Sprains, and
Dislocations
091-63A-2077 Describe First Aid Measures for Removing Foreign Object
From Eye
091-63A-2078 Describe Treatment of Environmental Injuries

NUCLEAR, BIOLOGICAL AND CHEMICAL OPERATIONS

I. PERCENTAGE LANGUAGE SKILLS

Listening	33%
Speaking	28%
Reading	16%
Writing	18%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to learn
CONDITIONS: Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

TASK: Listen to perform
CONDITIONS: Given oral warnings or verbal commands regarding simulated NBC situations (scenarios) in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral utterances

TASK: Produce appropriate oral responses spontaneously or upon request
CONDITIONS: Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral responses

TASK: Produce oral utterances to inform and respond
CONDITIONS: Given NBC situations requiring oral alarms
STANDARDS: 100% understandable oral utterances

TASK: Read to learn
CONDITIONS: Given printed MOS training materials in the form of procedures, notations defined as explanations and references
STANDARDS: 100% understanding of printed content

TASK: Read for information
CONDITIONS: Given printed MOS training materials in the form of procedures, notations defined as explanations and references
STANDARDS: 100% understanding of printed material

III. TASK NUMBERS AND TITLES

091-63A-1001	Put on Protective Mask
091-63A-1002	Give NBC Alarms and Warnings
091-63A-1003	Recognize and Interpret Markers for Areas of NBC Contamination and Hazards
091-63A-1004	Decontaminate Your Skin Using the M58 Training Kit
091-63A-1005	Decontaminate Your Individual Weapon Using ABC-M13 Kit
091-63A-1006	Apply First Aid Measures to a Chemical Casualty
091-63A-1007	Inspect and Maintain M17 or M17A1 Protective Mask and Its Carrier
091-63A-1008	Take Defense Actions Against Effects of a Nuclear Burst and Possible Resulting Fallout
091-63A-2009	Identify the Three Types and Describe Effects of Nuclear Bursts
091-63A-2010	Describe Actions for Crossing a Radiologically Contaminated Area

INDIVIDUAL FITNESS

I. PERCENTAGE LANGUAGE SKILLS

Listening	25%
Speaking	13%
Reading	7%
Writing	13%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to learn and perform
CONDITIONS: Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

III. TASK NUMBERS AND TITLES

091-63A-1100	Maintain an Appropriate Level of Physical Fitness (MALE ONLY)
091-63A-1101	Maintain an Appropriate Level of Physical Fitness (FEMALE ONLY)

CAMOUFLAGE

I. PERCENTAGE LANGUAGE SKILLS

Listening	38%
Speaking	24%
Reading	12%
Writing	16%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of instructions, charts, captioned illustrations, explanations and procedures
STANDARDS:	100% understanding of printed content

III. TASK NUMBERS AND TITLES

091-63A-1050 Camouflage Yourself and Your Weapon

LAND NAVIGATION

I. PERCENTAGE LANGUAGE SKILLS

Listening	44%
Speaking	29%
Reading	43%
Writing	32%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to learn and perform
CONDITIONS: Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

TASK: Produce appropriate oral responses spontaneously or upon request
CONDITIONS: Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral responses

TASK: Produce oral utterances to inform and respond
CONDITIONS: Given a requirement to produce a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral utterances

TASK: Read to learn
CONDITIONS: Given printed MOS training materials in the form of procedures
STANDARDS: 100% understanding of printed content

TASK: Write to record
CONDITIONS: Given a requirement to record compass readings, grid values and coordinates and ground distances
STANDARDS: 100% legible written content

III. TASK NUMBERS AND TITLES

091-63A-2140	Measure a Magnetic Azimuth With a Compass
091-63A-2141	Measure an Azimuth on a Map With a Protractor
091-63A-2142	Convert a Magnetic Azimuth to a Grid Azimuth
091-63A-2143	Measure Ground Distance on a Map
091-63A-2144	Locate a Point on a Map Using Military Grid Reference System
091-63A-2145	Orient a Map Using a Compass
091-63A-2146	Determine Your Location on a Map

091-63A-2147 Locate an Unknown Point by Intersection
091-63A-2148 Locate an Unknown Point by Resection
091-63A-2149 Determine Elevation and Relief on a Map
091-63A-2150 Use Map Legend Data to Identify Symbols on a Map

M16A1 RIFLE

I. PERCENTAGE LANGUAGE SKILLS

Listening	40%
Speaking	22%
Reading	13%
Writing	16%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures and references
STANDARDS:	100% understanding of printed content

III. TASK NUMBERS AND TITLES

091-63A-1120	Maintain Individual Weapons
091-63A-1121	Perform Battlesight Zeroing of M16A1 Rifle

LOGISTICAL MANAGEMENT

I. PERCENTAGE LANGUAGE SKILLS

Listening	18%
Speaking	13%
Reading	18%
Writing	17%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce oral utterances to inform or describe
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record
CONDITIONS:	Given the requirement to complete forms
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-63A-1300	Use Department of the Army (DA) Pamphlet 310-4
091-63A-1301	Prepare TAMMS Forms Used by Vehicle Operator
091-63A-1302	Perform Equipment Serviceability Criteria (ESC)
091-63A-2303	Use DA Pam 310-7
091-63A-2304	Describe Types of Modification Work Orders (MWO)

SUPPLY

I. PERCENTAGE LANGUAGE SKILLS

Listening	17%
Speaking	6%
Reading	13%
Writing	13%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of instructions and information
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given a requirement to complete communication forms
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-63A-1340	Locate and Record National Stock Number (NSN) for a Repair Part
091-63A-2341	Complete Entries on Document Register for Supply Action (DA Form 2064) and on Record of Demands (DA Form 3318)

MAINTENANCE

I. PERCENTAGE LANGUAGE SKILLS

Listening	35%
Speaking	20%
Reading	20%
Writing	21%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures and references
STANDARDS:	100% understanding of printed content

III. TASK NUMBERS AND TITLES

091-63A-1360	Maintain Assigned Tool Kit/Set
091-63A-1361	Maintain Individual Clothing and Equipment

TEST, MEASUREMENT AND DIAGNOSTIC EQUIPMENT

I. PERCENTAGE LANGUAGE SKILLS

Listening	40%
Speaking	29%
Reading	24%
Writing	22%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen for information
CONDITIONS:	Given oral instructions to perform task specific assignments in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral information
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures and descriptions
STANDARDS:	100% understanding of printed content

III. TASK NUMBERS AND TITLES

091-63H-1401	Perform a Resistance Test Using a Multimeter
091-63H-1402	Perform a DC Voltage Test Using a Multimeter
091-63H-1403	Perform an AC Voltage Test Using a Multimeter
091-63H-1404	Perform a Continuity Test on an Electrical Circuit Using a Multimeter
091-63H-1405	Perform a DC Current Test Using a Low Voltage Circuit Tester (LVCT)
091-63H-1406	Perform a DC Voltage Test Using a Low Voltage Circuit Tester (LVCT)
091-63H-1407	Perform a Load Bank and Field Resistance Test Using Low Voltage Circuit Tester (LVCT)
091-63H-1408	Use Torque Wrench to Torque Bolts
091-63H-1409	Perform Measurement Using Micrometers
091-63H-1410	Time a Spark Ignition Engine Using a Timing Light
091-63H-1411	Perform a Pressure Test on a Mechanical Fuel Pump
091-63H-1412	Perform a Cam Dwell Test on a Spark Ignition Engine
091-63H-1413	Perform a Compression Test on a Vehicle Engine
091-63H-1414	Perform a Manifold Vacuum Test on a Carbureted Engine

REPAIR AND MAINTENANCE OF WHEELED VEHICLES

I. PERCENTAGE LANGUAGE SKILLS

Listening	26%
Speaking	18%
Reading	13%
Writing	15%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to learn and perform
CONDITIONS: Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

TASK: Produce spontaneous oral utterances to interact
CONDITIONS: Given the requirement to orally respond to challenges, passwords and security situations in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral utterances

TASK: Read to learn
CONDITIONS: Given printed MOS training materials in the form of procedures, descriptions, tables and SOPs
STANDARDS: 100% understanding of printed content

III. TASK NUMBERS AND TITLES

091-63H-1425	Removal and Installation of Generators and Alternators on Wheeled Vehicles
091-63H-1426	Prepare a Wheeled Vehicle Powerpack for Removal
091-63H-1427	Install a Wheeled Vehicle Powerpack
091-63H-1428	Replace Engine on Wheeled Vehicle
091-63H-1429	Repair Defective Wire in Vehicle Wiring Harness
091-63H-1430	Troubleshoot Systems or Components on the 1/4-Ton Truck M151
091-63H-1431	Remove and Replace a Defective Cylinder Head Gasket on 1/4-Ton Truck M151
091-63H-1432	Adjust Clutch Linkage on 1/4-Ton Truck M151
091-63H-1433	Adjust Choke, Throttle, and Accelerator Controls on 1/4-Ton Truck M151
091-63H-1434	Adjust Idle and Idle Mixture on Carburetor of 1/4-Ton Truck M151
091-63H-1435	Perform Technical Inspection on 1/4-Ton Truck M151
091-63H-1436	Adjust and Bleed Service Brakes on 1 1/4-Ton Truck M561
091-63H-1437	Remove and Replace Service Brake Assembly on 1 1/4-Ton Truck M561

091-63H-1438 Adjust Parking Brake Handle and Linkage on 1 1/4-Ton Truck M561

091-63H-1439 Remove and Replace Parking Brake Drum and Shoes on 1 1/4-Ton Truck M561

091-63H-1440 Remove and Replace Handbrake Linkage and Lever on 2 1/2-Ton Truck M35A2

091-63H-1441 Remove and Replace the Handbrake Shoes on 2 1/2-Ton Truck M35A2

091-63H-1442 Remove and Replace Air-Hydraulic Cylinder on 2 1/2-Ton Truck M35A2

091-63H-1443 Remove and Replace Air Reservoirs 2 1/2-Ton Truck M35A2

091-63H-1444 Remove and Replace Air Compressor from 2 1/2-Ton Truck M35A2

091-63H-1445 Remove and Replace Pressure Plate and Clutch Disk on 2 1/2-Ton Truck M35A2

091-63H-1446 Remove 2 1/2-Ton Truck M35A2 Transfer Case

091-63H-1447 Install 2 1/2-Ton Truck M35A2 Transfer Case

091-63H-1448 Remove 2 1/2-Ton Truck M35A2 Transmission

091-63H-1449 Replace 2 1/2-Ton Truck M35A2 Transmission

091-63H-1450 Remove and Install Water Pump on 2 1/2-Ton Truck M35A2

091-63H-1451 Remove and Replace Radiator on 2 1/2-Ton Truck M35A2

091-63H-1452 Remove and Replace Swing Motor on 5-Ton Wrecker M816

091-63H-1453 Remove and Replace Crane Turntable Pump Assembly on 5-Ton Wrecker M816

091-63H-1454 Remove and Replace Power Steering Cylinder on 5-Ton Truck M809

091-63H-1455 Remove and Replace Power Steering Pump on 5-Ton Truck M809

091-63H-1456 Remove and Replace Steering Gear Assembly on 5-Ton Truck M809

091-63H-1457 Remove and Install Lower Steering Column on 5-Ton Truck M809

091-63H-1458 Remove and Replace Torque Rod on 5-Ton Truck M809

091-63H-1459 Remove and Replace Rear Spring Assembly on 5-Ton Truck M809

091-63H-1460 Remove and Replace Front Spring and Shackles on 5-Ton Truck M809

091-63H-1461 Remove and Replace Rear Axle Assembly in 5-Ton Truck M809

091-63H-1462 Remove and Replace Fuel Supply Pump on Cummins WHC-250 Diesel Engine

091-63H-1463 Remove and Replace Brake Chamber and Make a Slack Adjustment on 8-Ton Truck M553

091-63H-1464 Remove and Replace Transfer Pump on the 8-Ton Truck M520

091-63H-1465 Remove and Replace Secondary Fuel Filter on 8-Ton Truck M520

091-63H-1466 Remove, Service, and Install Primary Fuel Filter on 8-Ton Truck M520

091-63H-1467 Remove 8-Ton Truck M520 Steering Gear and Column

091-63H-1468 Install 8-Ton Truck M520 Steering Gear and Column

REPAIR AND MAINTENANCE OF MEDIUM TANKS

I. PERCENTAGE LANGUAGE SKILLS

Listening	23%
Speaking	15%
Reading	29%
Writing	19%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Produce spontaneous oral utterances to interact
CONDITIONS:	Given the requirement to orally respond to challenges, passwords and security situations in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures, descriptions, tables and SOPs
STANDARDS:	100% understanding of printed content

III. TASK NUMBERS AND TITLES

091-63H-1479	Remove M60A1 Tank Powerpack
091-63H-1480	Install M60A1 Tank Powerpack
091-63H-1481	Replace M60A1 Tank Engine
091-63H-1482	Remove and Replace Generator Assembly on M60A1 Tank
091-63H-1483	Remove and Replace Starter from M60A1 Powerpack
091-63H-1484	Remove and Replace Fuel Injector Nozzles from Powerpack of M60A1 Tank
091-63H-1485	Remove Fuel Injector from M60A1 Tank Powerpack
091-63H-1486	Install and Time Fuel Injector Pump on M60A1 Tank Engine
091-63H-1487	Remove and Install Engine Shroud and Cooling Fans on M60A1 Tank Engine
091-63H-1488	Replace M60A1 Tank Transmission

091-63H-1489 Perform Brakeband Adjustment on M60A1 Tank Transmission
091-63H-1490 Remove and Replace Roadwheel Arm Assembly on M60A1 Tank
091-63H-1491 Remove and Install Drive Sprockets on M60A1 Tank

REPAIR AND MAINTENANCE OF HOWITZERS AND LIGHT TRACKED VEHICLES

I. PERCENTAGE LANGUAGE SKILLS

Listening	5%
Speaking	2%
Reading	4%
Writing	5%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce oral utterances to inform
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures, descriptions, tables and SOPs
STANDARDS:	100% understanding of printed content

III. TASK NUMBERS AND TITLES

091-63H-1501	Remove M113A1 Carrier Powerpack
091-63H-1502	Install M113A1 Carrier Powerpack
091-63H-1503	Remove and Install Cooling Fan Assembly on M113A1 Carrier
091-63H-1504	Remove and Replace Water Pump on M113A1 Carrier
091-63H-1505	Adjust Steering Brakes on M113A1 Carrier
091-63H-1506	Remove and Replace Differential Assembly on M113A1 Carrier
091-63H-1507	Remove and Replace Transfer on M113A1 Carrier
091-63H-1508	Adjust Transmission Linkage on M113A1 Carrier
091-63H-1509	Remove M109 Howitzer Powerpack
091-63H-1510	Remove and Replace Fuel Supply Pump on M109 Howitzer
091-63H-1511	Remove and Replace Fuel Injector Assemblies From M109 Howitzer
091-63H-1512	Remove and Replace Hydraulic Cylinder on M578 Recovery Vehicle
091-63H-1513	Service Hydraulic Reservoir Filter Element
091-63H-1514	Service Hull Hydraulic System Filter
091-63H-1515	Replace Cylinder Head Gasket on 6V53 Series Engine

TROUBLESHOOTING OF AUTOMOTIVE EQUIPMENT

I. PERCENTAGE LANGUAGE SKILLS

Listening	29%
Speaking	16%
Reading	23%
Writing	19%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce oral utterances to inform
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures, descriptions, tables and SOPs
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete forms and produce written reports
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-63H-2526	Troubleshoot Personnel Heaters
091-63H-2527	Troubleshoot Clutch on Wheeled Vehicles
091-63H-2528	Troubleshoot Manual Transmission on Wheeled Vehicles
091-63H-2529	Troubleshoot Automatic Transmission in Vehicles
091-63H-2530	Troubleshoot Cooling System on M60A1 Tank Engine
091-63H-2531	Troubleshoot Electrical System on M60A1 Tank
091-63H-2532	Troubleshoot Brake System on Wheeled Vehicle
091-63H-2533	Troubleshoot Wrecker Crane on M816 5-Ton Wrecker
091-63H-2534	Troubleshoot Suspension System on Tracked Vehicle
091-63H-2535	Troubleshoot Vehicle Engines
091-63H-2536	Troubleshoot Wheeled Vehicle Steering System
091-63H-2537	Troubleshoot Wheeled Vehicle Suspension System
091-63H-2538	Assessment and Repair of Battle Damage

INSPECTION OF AUTOMOTIVE EQUIPMENT

I. PERCENTAGE LANGUAGE SKILLS

Listening	22%
Speaking	17%
Reading	16%
Writing	14%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to learn
CONDITIONS: Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

TASK: Produce appropriate oral responses spontaneously or upon request
CONDITIONS: Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral responses

TASK: Read to learn
CONDITIONS: Given printed MOS training materials in the form of procedures, descriptions, tables and SOPs
STANDARDS: 100% understanding of printed content

III. TASK NUMBERS AND TITLES

091-63H-2549	Inspect Clutch Assembly
091-63H-2550	Inspect Fifth Wheels
091-63H-2551	Inspect Hydraulic System on M816 5-Ton Wrecker
091-63H-2552	Inspect Cooling System on M60A1 Tank
091-63H-2553	Inspect Tracked Vehicle Suspension System
091-63H-2554	Inspect Power Train of Wheeled Vehicle
091-63H-2555	Inspect Suspension System on Wheeled Vehicle
091-63H-2556	Inspect Electrical System on Wheeled Vehicle
091-63H-2557	Inspect Brake System on Wheeled Vehicle
091-63H-2558	Inspection of Vehicle Engines
091-63H-2559	Inspect Steering System on Wheeled Vehicle
091-63H-2560	Inspect Gas Particulate Units on Tracked Vehicles
091-63H-2561	Inspect Air/Exhaust Systems on Vehicles

TESTING OF AUTOMOTIVE EQUIPMENT

I. PERCENTAGE LANGUAGE SKILLS

Listening	9%
Speaking	8%
Reading	12%
Writing	10%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures and descriptions
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given a requirement to complete forms and produce written reports
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

091-63H-2572	Test Piston Wear Limits
091-63H-2573	Test Fuel System on M60A1 Tank
091-63H-2574	Perform Fuel Flow Test on 8V71T Engine Fuel Pump in M109 Howitzer
091-63H-2575	Stall Test M60A1 Tank Powerpack
091-63H-2576	Perform Cam Lobe Lift Test on Camshaft in Vehicle Engine
091-63H-2577	Test Engine Exhaust and Intake Valve Springs
091-63H-2578	Measure Gear Backlash
091-63H-2579	Test Engine Block and Head for Warpage
091-63H-2580	Perform Preload Check on Idler Gear Bearing From 8V71T Engine

091-63H-2581 Test Flywheel Runout
091-63H-2582 Measure Cylinder Sleeve Bore on 8V71T Engine
091-63H-2583 Check End Play on Crankshaft on 8V71T Engine

REPAIR AND ADJUSTMENT OF AUTOMOTIVE EQUIPMENT

I. PERCENTAGE LANGUAGE SKILLS

Listening	7%
Speaking	6%
Reading	7%
Writing	5%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to learn
CONDITIONS: Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

TASK: Produce appropriate oral responses spontaneously or upon request
CONDITIONS: Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral responses

TASK: Write to record and report
CONDITIONS: Given the requirement to complete forms and produce written reports
STANDARDS: 100% understandable and legible written content

TASK: Read to learn
CONDITIONS: Given printed MOS training materials in the form of procedures, descriptions, tables and SOPs
STANDARDS: 100% understanding of printed content

III. TASK NUMBERS AND TITLES

091-63H-2594	Adjust Hydraulic Pressure Switches
091-63H-2595	Remove and Install Closed Breech Scavenger System (CBSS) Compressors and Drive Gear Box
091-63H-2596	Adjust Boom and Tow Winch Brake on M578 Recovery Vehicle
091-63H-2597	Repair Hydraulic Powerpack Assembly
091-63H-2598	Repair Hydraulic System Components
091-63H-2599	Repair Hydraulic Valves
091-63H-2600	Repair End Cover Assembly on CD-850 Transmission
091-63H-2601	Repair Axle Assemblies
091-63H-2602	Repair Steering Systems
091-63H-2603	Repair Hydraulic Components

091-63H-2604	Repair Vehicle Engines
091-63H-2605	Adjust Toe-In on Wheeled Vehicle
091-63H-2606	Adjust Main Pressure and Converter Pressure Valves on M60A1 Tank Transmission Valve Body
091-63H-2607	Adjust Low and Reverse Range Bands on M60A1 Tank Transmission
091-63H-2608	Adjust Shifting Linkage on M60A1 Tank
091-63H-2609	Adjust Steering Linkage on M60A1 Tank
091-63H-2610	Adjust Valves on AVDS 1790 Engine From an M60A1 Tank
091-63H-2611	Adjust Valves on 8V71T Engine on M109 Howitzer
091-63H-2612	Perform Maximum No Load Speed Adjustment on M109 Howitzer Engine
091-63H-2613	Adjust Idle Speed on M109 Howitzer
091-63H-2614	Adjust Governor Gap on M109 Howitzer Engine
091-63H-2615	Adjust Hydraulic System on 6,000-Pound Forklift
091-63H-2616	Adjust Intake and Exhaust Valves on M809-Series Vehicle
091-63H-2617	Perform Fuel Rack Adjustment on 8V71T Engine in M109 Howitzer
091-63H-2618	Adjust Gear Tooth Contact in Differential of M35A2 2 1/2-Ton Truck
091-63H-2619	Adjust Gear Backlash in Differential of 6,000-Pound Forklift
091-63H-2620	Adjust Winch Brakes
091-63H-2621	Repair Standard Shift Transmission
091-63H-2622	Install, Synchronize, and Time the Magnetos on M88 Recovery Vehicle Engine
091-63H-2623	Install and Time Fuel Injector Pump on LDS 465-1 Engine
091-63H-2624	Repair Wheeled Vehicle Suspension Systems
091-63H-2625	Repair Tracked Vehicle Suspension Systems
091-63H-2626	Repair Main Hydraulic Pump
091-63H-2627	Repair Hydraulic Relief and Unloading Valve
091-63H-2628	Remove and Install Steering Mode Selector Valve on 6,000-Pound RT Forklift
091-63H-2629	Remove and Install Steering Gear Assembly on 6,000-Pound RT Forklift
091-63H-2630	Remove and Replace Rear Axle Assembly From 6,000-Pound RT Forklift
091-63H-2631	Remove and Install Engine from 6,000-Pound RT Forklift
091-63H-2632	Remove and Install Main Hydraulic Pump on 6,000-Pound RT Forklift
091-63H-2633	Remove and Install Two-Spool Valve Assembly on 6,000-Pound RT Forklift

SECTION VI

JOB LANGUAGE PERFORMANCE REQUIREMENTS (Entire MOS)

INTRODUCTION

0• This section contains language tasks for each generic skill for this MOS. Listed below each task are the types of receptive or productive language activity involved.

LISTENING

TASK: Understand oral language intended to inform or instruct.

CONDITIONS: Given explanations, procedures, rules, instructions or definitions in simple to complex lexicon and syntax, formal or informal registers, casual or colloquial speech, military jargon, slang or dialectical speech in any training situation. (Appendices 4, 5 & 6)

STANDARDS: 100% understanding and assimilation of presented oral language task.

The following are specific conditions found in this language task:

Warnings
Described situations
Directions
Lectures
Commands, Orders
Sound tracks (films, tapes)
Standard/Non-standard English
Instructions
SQT questions

TASK: Understand spontaneous oral language or language via a technical medium - such as a radio telephone - intended to inform and elicit responses.

CONDITIONS: Given scenarios, questions, commands or requests in simple to complex lexicon and syntax, formal or informal registers, casual or colloquial speech, military jargon, slang or dialectical speech in any training situation. (Appendices 4, 5, & 6)

STANDARDS: 100% understanding and assimilation of oral language in order to apply and respond.

The following are specific conditions found in this language task:

Shouting
Radio communications
Coded messages
Spellings
Conversation
Requests

SPEAKING

- TASK:** Formulate and produce appropriate oral responses spontaneously.
- CONDITIONS:** Given any verbal stimulus in the form of questions, scenarios, instructions, or cues in any training situation.
(Appendices 5 & 6)
- STANDARDS:** 100% understandable oral response using correct lexicon and syntax for the training situation.

The following are specific conditions found in the language task:

Explanations
Statements
Repetitions
Counting
Corrections
Assignments
Notifications
Oral reports
Answers
Clarifications
Information

- TASK:** Produce oral utterances to interact and communicate spontaneously or via a technical medium such as radio telephone.
- CONDITIONS:** Given a communicative situation (Appendices 4, 5, & 6 Soldier's Manual) in any training situation.
- STANDARDS:** 100% understandable communication using correct lexicon and syntax for the communication act.

The following are specific conditions found in this language task:

Requesting information
Requesting permission
Transmitting messages
Call signs
Vocal signals
Shout warnings
Radio communications
Target locations
Directions (N,S,E,W)
Directions, general
Requests for fire
Report on the results of fire
Challenges/Passwords
Training sessions
Interaction

READING

TASK: Read MOS training in the form of printed prose or graphic representations in order to learn processes, concepts, vocabulary, definitions and identifications, to calculate problems, intercept codes and complete forms.

CONDITIONS: Given technical, non-technical, lexical and structural features in simple to complex printed form in any training situation. (Appendices 4, 5 & 6)

STANDARDS: 100% understanding of printed content.

The following are specific conditions found in this language task:
Captions with illustrations.

Lists	Extracts
Procedures	Columns
Information	Indices
Definitions	Charts
Outlines	Methods
Signs	Technical Vocabulary
Markers	Standard Operating Procedures
References	Cartoons
Rules	Problems
Maps	Manuals
Flags	Graphic Training Aids
Military Documents	
I.D. Papers	
Regulations	

TASK: Identify, understand, and interpret written utterances pertinent to MOS training in technical or non-technical language.

CONDITIONS: Given technical, non-technical, lexical and structural features in simple to complex written form in any training situation. (Appendices 4, 5 & 6)

STANDARDS: 100% understanding of written content.

The following are specific conditions found in this language task:

Lists
Information
Descriptions
Radiation readings off dosimeter
Coordinate scales
Callsigns-suffices
Three-letter codes
Examples
Calculations
Markings
Radio communications
Range cards
Notes
Messages

WRITING

- TASK:** Upon instruction, write in conventional orthography, letter, numbers, words or sentences appropriate to the training situation.
- CONDITIONS:** Given standardized forms, paper or answer sheets and the instructions to list, answer, describe or recall.
- STANDARDS:** 100% syntactical and lexical correctness and legibility of writing which is also appropriate in style and usage to training situations. (Appendix 4)

The following are specific conditions found in this language task:

Ratings
Signatures
Range cards
Data symbols
Answers
Descriptions
Notes
Reports

- TASK:** Write, in conventional orthography, letters, or specialized code, numbers, words or sentences in order to transmit or record information.
- CONDITIONS:** Given standardized forms or paper and oral communication.
- STANDARDS:** 100% syntactical and lexical correctness of writing which can be read by another speaker of English.

The following are specific conditions found in this language task:

Technical forms
Codes
Grid coordinates
Decoded messages
Encoded messages
Logbooks
Plottings
Figures
Reports
Tags
Range cards
Applicable DA forms

APPENDICES

1. Task Prioritization Checklist
2. Task Inventory Compiled Data Forms
3. Percentage Language Skills
4. Observation Form
5. Structural/Lexical list
6. Vocabulary (DLIELC in-house)
7. Vocabulary (machine-generated)
8. English Language Structures

APPENDIX 1

TASK PRIORITIZATION CHECKLIST

This Checklist was approved by the
Department of the Army in 1980.

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(PRESENTLY WORKING IN) _____
 MOS IN WHICH YOU WERE TRAINED: _____
 POSITION: _____
 UNIT: _____

2 = me
 3 = hlb

IS TASK TAUGHT?		IS TASK TESTED?		RESULT
YES	NO	YES	NO	PERSON
LISTENING*		WRITTEN		DANCER
SPEAKING*		ORAL		
READING*		PERFORMANCE		
WRITING*				
LECTURE				
SELF-PACED				
DEMONSTRATION				
HANDS-ON				

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APPENDIX 2

TASK INVENTORY COMPILED DATA FORM

This form was used to record data from
the Task Prioritization Checklist.

NOTE: The percentage form and tabulated data sheets were inadvertently misplaced after the JLPR were written. However, all the backup data is on file and if it is needed, we will retabulate the information and forward it to any concerned party.

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APPENDIX 3

PERCENTAGE LANGUAGE SKILLS

This appendix contains the computations for the percentages of listening, speaking, reading and writing involved in each cluster.

Some clusters have two sets of computations because some Task Prioritization Forms were received after original computations and had to be added on.

NOTE: The percentage form and tabulated data sheets were inadvertently misplaced after the JLPR were written. However, all the backup data is on file and if it is needed, we will retabulate the information, and forward it to any concerned party.

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APPENDIX 4

OBSERVATION FORMS

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The attached forms were taken to the actual training where observers recorded actual training situations and language used in the training. These forms were used to indicate the CONDITIONS for the Job Language Performance Requirements in this MOS.

SUBJECT _____

* TASK NUMBER IF KNOWN _____

Physical Environment of Instruction

- A. Classroom
- B. Open Areas (live firefield- mark-up terrain)
- C. Large enclosed area (bleacher sites)
(Warehouse size)
- D. Other

Comments:

Styles of Communication Instructor, Verbal orders

- A. Formal Speech
- B. Informal Speech
- C. Regional/Ethnic
- D. Body Language
- E. Profanity
- F. Shop talk/slang
- G. Non-standard English
- I. Other

Comments:

Media of Instruction

- A. Films
- B. Video cassettes
- C. Graphic Training Aids (diagrams, etc....)
- D. Illustrations (requiring reading/not requiring reading)
- E. Maps
- F. Mock-ups
- G. Models/Aimulate
- H. Real equipment
- I. Transparencies
- J. Tape cassettes
- K. Training Publications (required/available)
- L. Signs/Notices
- M. P.A. System
- N. Normal Voice
- O. Soldier's Manual
- P. Chalkboard
- Q. Other

Comments:

Mode of Response

- A. Manipulating a piece of equipment/device
- B. Answers (spoken - written)
- C. Signals
- D. Performance
- E. Taking Notes
- F. Teamwork
- G. Other

Comments:

Instructional Ratio

- A. Instructor; one-to-one/class
- B. Peer/one-to-one
- C. Group or Committee Group (group of instructors of whom one teaches one portion of the whole)
 - Small (12 or less)
 - Large (more than 12)
- D. Other
- E. Questions

Comments:



APPENDIX 5

STRUCTURAL/LEXICAL LIST

Attached is the list of
structural and lexical items
for this MOS.
(For discussion, see Section II)

STRUCTURAL ITEMS

SENTENCE PATTERNS

SIMPLE: One subject and one predicate

1. Subject and action verb
Firer aims.
2. Subject and action verb and direct/indirect object
Many things cause burns.
3. Subject and linking verb and subjective complement
This is very important.

COMPOUND: Two or more sentences joined by:

1. Coordinating conjunction

Explain the task and ask the trainees if they understand the task, and the conditions they are expected to perform at the end of the session, the conditions under which they must operate, and the standard they must achieve.

2. Conjunctive adverb

Do not start or stop the vehicle while the radio is on or you may damage the set.

3. Semicolon

A light pressure is exerted on the driving spring when the bolt is forward; however, never attempt to cock the gun while the backplate is off and the driving spring assembly is in place.

COMPLEX: One or more dependent clauses

1. Adjectival (functions as an adjective by modifying nouns and pronouns)

At the bottom of the map you will find three different bar scales which will help you to change map distance to miles, meters, or yards.

2. Adverbial (functions as an adverb by modifying verbs, adjectives, and other adverbs) The mouth-to-nose method is performed in the same way except you blow into his nose while you pinch his lips closed with one hand.

3. Noun (functions as a noun) The person who is performing artificial respiration quickly blows into the casualty's lungs after each five compressions.

SENTENCE TYPES

1. INTERROGATIVE

(do, does, modal, wh-, tag, inverted)
But what about the other 15 meters?
Ask, "What is there?"

2. DECLARATIVE

Classified information will not be discussed over the telephone.

3. EXCLAMATORY

HALT!

4. IMPERATIVE

Issue the challenge in a soft voice and wait for the (requests, commands, second person (singular/plural, negative/affirmative), First and second person (let's)) stranger to reply with the correct password.

5. ELLIPSIS:

Split the bracket until fire for effect is possible. Most common type of ellipsis--subject deleted

6. FRAGMENT

Movement to occupy a position.
All other parts.

ADVERBIAL CLAUSES

1. PURPOSES

Training must be conducted so that at least 80% of the students can accomplish the task trained to the standards specified for the task.

2. CONTRAST

Although natural terrain features are likely not to change and make good reference points to orient a map, you may also use manmade features such as roads, bridges, etc., to orient your map.

3. COMPARISON

Place suitable material under him as well as over him if necessary.

4. RESULT

Blending is the use of camouflage materials on, over, and around an object so that it appears to be part of the background.

5. MANNER

Take deep breath and place mouth around soldier's mouth; then blow forcefully as you observe his chest.

6. TIME

When you have to go a certain distance on foot without any landmarks to guide you, you can measure distance pretty accurately by counting your paces.

Split the bracket until fire for effect is possible.

7. PLACE

Loosen clothing at neck, waist, and other places where it tends to bind.

8. CAUSE

Be careful not to depress the trigger, since this will cause the firing pin to be released.

9. ADVERSATIVE

The casualty has no fractures, but has a bleeding wound.

10. CONDITION

If it isn't, your rifle can still fire, but it could possibly explode, causing you harm.

PHRASES

1. GERUND

(upon) Hearing the correct password, give permission to pass if you have no other reasons to doubt.

2. PARTICIPIAL

Using a straightedge draw a line between the two objects.

3. INFINITIVE

To camouflage exposed skin paint the shiny areas with a dark color.

4. PREPOSITIONAL

Under certain light conditions, front sight ports can be seen, but you can't determine whether you are looking through, above, or to the side of the rear sight aperture.

LEXICAL ITEMS

ADJECTIVALS

"rifle bore cleaner"
"waste material"
"burning residue"
"semi-fixed ammunition"
"extracting/loading ammunition"
"firing hammer"
"four life-saving steps"
"chest/heart massage"
"tourniquet material"
"field material"
"field condition"
"mouth-to-mouth resuscitation"

ADJECTIVES

1. WORD + ABLE

AVAILABLE

2. COMPARATIVES

Threat main tanks are smaller than the US main battle tanks.

3. SUPERLATIVES

The most dangerous targets are those that see you, have the capability of killing you, and appear to be preparing to engage you.

PRONOUNS

1. INDEFINITE

Have someone walk the FDL (if enemy situation permits), and determine dead space (sections of FDL where individual drops below line of sight).

2. POSSESSIVE

Shake his shoulder and shout, "Are you OK.?"

3. SUBJECTIVE

This will give you correct nomenclature.

4. OBJECTIVE

It will also give you the correct functioning.

5. REFLEXIVE

Keep yourself clear of the muzzle.

VERBS

1. VERB TENSES

Make sure you clearly understand the task you are to teach.

--You will be tested.

--If they elect to take it, they must complete the test once they have begun the first event or else they will receive a NO GO for the entire test.

--If the soldier is breathing, mouth-to-mouth resuscitation is not necessary.

--When all 10 pebbles have been moved to the left pocket, you have traveled one kilometer.

--Have someone walk the FDL and determine dead space.

--Sensing is an instantaneous determination by the grenadier as to where the grenade exploded.

present progressive verb
present verb (uninflected, third
person, indicative)
past tense (regular/irregular)
present perfect
future

2. TYPES

intransitive
(You) train for results.

transitive
Mask the casualty.

linking
The skin becomes inflamed.

3. VOICE

active

recognize
protect
is facing
remove
explode
sounds
points out
seen

appear
seek
secure
wear
mask
stored
do require
could affect

has
must be
wipe
rinse
put brush
empty
reassemble
reinstall

passive

given
is protected
is sprayed

are alerted
are reported
have been corrected

are authorized
be corrected

passive+verb+ing
"task will be performed
using procedures"
modal+passive voice
"can be determined"
modal+negative+passive
"must not be eliminated"

4. MODALS

You must demonstrate, once every 6 months, that you can meet or exceed the minimum level of physical fitness required of each member of your unit in accordance with the standards contained in AR 600-9.

Personnel over the age of 40 may elect not to take the APFT. The pulse should be found in the soft area between the Adam's apple and the large muscle on the side of the neck.

Injury or death could result.

During surveillance the operator will have to adjust the range focus to get a sharp image at different ranges.

"might have to be placed"
"be"
"will be given"
"should be"
"must"
"must be"
"can"
"can be"
"may be"
"should not be"

5. AUXILIARIES

(do, does, negative)

Do not zero in under 100 meters.

If the round does not fall within 5 meters of target, zeroing procedures are called for.

GERUNDS

Sensing is an instantaneous determination by the grenadier as to where the grenade explodes with respect to the target.

INFINITIVES

To fire, hold the M16A1 in the rest with your right shoulder firmly against the weapon's butt plate.

ADVERBS +

1. SUPERLATIVE

When such a line of fire exists, the primary sector will be assigned, based on it, with the FDL being the sector limit closest to the friendly troops.

2. INDEFINITE

The launcher has a heavy coat of oil on working parts, and a light coat of oil elsewhere.

3. FREQUENCY

Apply a little graphite grease to the threads of the antenna section for easy removal and to prevent the sections from seizing if they have been rarely removed.

4. OTHER

Assembly procedure for the grenade launcher merely reverses disassembly steps.

5. COMPARATIVE

The care, cleaning, lubrication and adjustment of the mount used with the gun are no less important.

VERBS AND PREPOSITIONS

Line up the key in the receptacle with the slot in the cable connector.

VERBS AND ADVERB

(particles)

Put on the protective mask within nine seconds of the chemical alarm and remain in the contaminated area for at least two minutes without making further adjustments to the mask.

APPENDIX 6

VOCABULARY (DLIELC IN-HOUSE)

The following vocabulary list
was extracted from the Soldier's
Manual task by task and then
categorized into GENERAL, BASIC
AND TECHNICAL vocabulary.

1102 02 11

TASK NUMBER 091 - 6341 - 1401

TASK TIME perform a resistance test using a multimeter

General
ability
applicable
assistance
evaluate
measured
perform
proper
properly
set (V)
slap
vehicle

Basic
field environment
shop

Tech.
circuit
coil
component
components
DC
frame
meter scale
meter selection
multimeter
negative terminal
range selector
resistance
resistance test
resistor
tool kit
voltage
zero (V)

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Technical Tasks

Test, Measurement and Diagnostic Equipment

Task # 091-63H-1403 - Perform an AC Voltage Test using a multimeter

Basic Military	General	Technical
Shop field environment Safety Procedures	Vehicle Applicable Proper Properly evaluation Tools equipment utilize	AC Voltage AC Voltage Test Multimeter AC Voltage System meter Function Range Selection Power off Test leads Terminal Power on needle Reading Turn off disconnect connection Switch setting

Technical To 23

Test, Measurement and Diagnostic Equipment

Task #091-63H-1404- Perform a continuity test
on an Electrical Circuit using a Multimeter

Basic Military	General	Technical
Slip field environment 1/4 ton truck	Perform vehicle Ability Connect Touch together Painter Insure Interpret properly	Continuity Test electrical circuit multimeter Ohm wiring harness Circuit Scale Selector Switch DC position Range Switch lead jack Power

Technical Tasks

Test, measurement and Diagnostic Equipment

Task # 091-63H-1405 - Perform a DC Current test using a Low Voltage Circuit Tester

Basic Military	General	Technical
Shop field environment 1/4 Ton Truck	Perform Ability Determine Insert Apply momentarily Observe Evaluate Remove	DC Current DC Current Test Low Voltage Circuit Tester (LVCT) Amp Engine Electrical test adapter set Circuit Electrical leads Amperage Ammeter Red Ammeter test lead Positive Binding Post Positive Ammeter binding Post Negative Negative Ammeter binding Post Amperage Range Power connection points Battery Positive Terminal Ammeter Reading

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Technical To is
Test, measurement and Diagnostic Equipment

Task # 091-63H-1406 - Perform a DC Voltage
test using a Low Voltage Circuit Tester (LVCT)

Basic Military	General	Technical
Shop field environment 1/4 Ton truck	Perform Assistance Determine Set (V) Knob Touch Evaluate Read Scale	DC Voltage Test Low Voltage Circuit Tester (LVCT) 24-volt electrical system Tool kit Black lead Negative Post Voltmeter Voltage Range Ground Red lead

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Technical To s
Test, measurement and Diagnostic Equipment

Task # 091-63H-1407 - Perform a load bank and field Resistance test using Low Voltage Circuit Tester

Basic Military	General	Technical
Shop field environment	Perform Ability Assistance Vehicle Applicable Knob Extreme Clockwise Counterclockwise Position Turn off Switch Set (V) Rotate Determine Results	Load bank test Field Resistance Test Low Voltage Circuit Tester (LV) electrical system electrical Test Set General mechanics tool kit load bank Rheostat Field Rheostat Electrical test adapter Generator Generator Wiring Harness Load Switch Black lead Ammeter Negative Binding Post Battery Electrical lead Load bank Post Voltmeter Range Impere Voltmeter Scale

Technical T. ks

Test, measurement and Diagnostic Equipment

Task # 091-63H-1408 - Use Torque Wrench to torque bolts

Basic	Military	General	Technical
Shop field environment		Engine Vehicle Determine Required Steady Align	Torque wrench Torque wrench Bolts Nuts Zero (v) Socket General mechanic's tool kit

Technical T. KS

Test, Measurement and Diagnostic Equipment

Task # 091-634-14/09 - Perform measurement
using Micrometers

Basic Military	General	Technical
Shop field Environment	Perform measurement Various outside inside wear Assistance measure Surface Clean base Touch Outer Determine limits Prescribe inch Thousandth evaluate serviceability	micrometer Parts outside micrometer inside micrometer wear standards Anvil Rod Spindle

1
75

Technical Tasks

Test, Measurement and Diagnostic Equipment

Task #091-63H-1410 Time a Spark Ignition Engine using a timing light

Basic Military	General	Technical
Shop Field Environment	Engine Ability Assistance Vehicle Disconnect Install Connect Frame Start Set required Position (v) loosen rotate Tighten	Time (v) Spark ignition Spark Ignition Engine Timing Light Adapter Spark plug Spark plug wire Spark plug wire adapter Positive lead Positive Post Battery Negative lead Idle RPM Flash Timing Pointer Notch Align Distributor Distributor lock bolt

Technical T. Is

Test, Measurement and Diagnostic Equipment

Task # 091-634-1411 - Perform a Pressure Test on
a Mechanical Fuel Pump

Basic Military	General	Technical
Shop Field Environment	Perform Pressure fuel Pump (V) (N) Mechanical Ability gauge vehicle Applicable Connect operate Discontinue observe drop mounted	Pressure Test fuel pump pressure gauge Adapter Gen. mechanic's tool kit outlet port priming lever rocker arm Register (V) PSI gauge pointer gauge readings Crank (V)

Technical Tasks

Test, Measurement and Diagnostic Equipment

Task # 091-634-1412 - Perform a Cam Dwell test on a Spark Ignition Engine

Basic Military	General	Technical
Shop field Environment	Ability Perform Engine Insure properly Connect vehicle frame start Adjust Disconnect	Cam Cam dwell Cam dwell Test Spark Ignition Spark Ignition Engine Distributor Distributor Cover Dwell meter Dwell meter adapter Timed Access plug Tachometer positive lead Negative lead Set (V) Selector Switch Cylinder Idle RPM Points

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Technical T. ks

Test, Measurement and Diagnostic Equipment

Task #091-63H-1413 - Perform a Compression Test
on a Vehicle Engine

Basic Military	General	Technical
Shop field Environment	Perform Ability Vehicle Engine Assistant Paper Pencil Applicable Normal Temperature Switch Record Repeat Evaluate	Compression Compression Test Crank (V) Injector wrench L-Shaped Spark plug wrench Compression gage kit Spark plug Injector Throttle Choke Carbureted Engine Compression gage Cylinder Stroke

Technical Tasks

Test, Measurement and Diagnostic Equipment

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Task # 091-63H - Perform a manifold Vacuum
Test on a carbureted Engine

Basic Military	General	Technical
Shop Field Environment	Ability Perform Assistance Vehicle Engine Applicable Temperature Normal Install Observe Evaluate	Manifold Vacuum Manifold Vacuum Test Carbureted Engine Vacuum gage Adaptor Idle RPM

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Technical T. 1s Repair and Maintenance of Wheeled Vehicles

Task # 091-634-1425

12739

Basic Military	General	Technical
Shop Field environment TM	Removal Installation Wheeled Vehicle Ability Replace Resistance reverse Proper Damage Adjustment	Generator Alternator Electrical and Unit Bolt Adjusting Arm bolt Drive belt mounting belts Deflection

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Technical To's Repair and Maintenance of Wheeled Vehicles

Task # 091-63H-1426- Prepare a wheeled Vehicle
Powerpack for Removal

Basic Military	General	Technical
Shop field environment TM	Prepare wheeled vehicle Removal. Perform Steps Disconnect Remove Reassembly Component handtools Precaution	Powerpack Block (V) Battery Ground Cable. Grille Radiator Electrical leads Fuel lines Exhaust pipe Air intake pipe Air Cleaner Drive Shaft Propeller Shaft Shifting linkage Clutch linkage Accelerator linkage powerpack mounting bolts

Technical Tasks

Repair and Maintenance of wheeled Vehicles

Task # 091-634-1427 - Install a wheeled Vehicle Powerpack

Basic Military	General	Technical
Shop field environment TM	Install Vehicle Crew Perform Ability Installation Position (V) Steps necessary complete proper steps Assistant help lift heavy component connect level	Powerpack wrecker Align Tool Kit Torque wrench powerpack mounting bolts. Torque Shifting linkage Clutch linkage Accelerator linkage exhaust pipe Air intake pipe air cleaner fuel lines electrical leads Radiator Grille battery ground cable water level oil level

Technical Tasks

Repair and Maintenance of Wheeled Vehicles.

Task # 091-63H-1428 - Replace the engine on a wheeled vehicle

Basic Military	General	Technical
Shop Field environment TM ORD	Replace Engine wheeled Vehicle Instruct unservicable Remove help lift Assistant heavy component suitable Applicable Transfer install Adjust damage Defect improper adjustment	wheeled vehicle Engine assembly Align tool kit lifting sling aligning tool lift capability Transmission Pressure plate Clutch disk mounting bolts Mount Powerpack

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Technical Tasks

Repair and Maintenance of Wheeled Vehicles

Task # 091-63H-1429 → Repair Defective wire in Vehicle Wiring Harness

Basic Military	General	Technical
Shop field environment TM TBORD	Repair Defective wire vehicle Determine Expose Allow Cut Connect insulate Secure Wrap Tightly Repeat	wiring harness electrical repair kit gage (as in wire size) circuit jumper wire insulated

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Technical Tasks

Repair and Maintenance of Wheeled Vehicles

Task # 091-63H-1430 - Troubleshoot Systems or components on 1/4 ton Truck M151

Basic Military	General	Technical
1/4 Ton Truck Shop field environment TM	System Component Ability Determine defective item cause malfunction Assistance Follow Sequence Defect Proper Perform Procedure Validate	Troubleshoot Shop tool set Tool Kit

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Technical Tasks

Repair and Maintenance of Wheeled Vehicles

Task # 091-634-1431 → Remove and Replace defective cylinder head

Basic Military	General	Technical
1/4 ton truck Shop Field environment TM	Remove Replace Defective assistance Drain (v) Disconnect Surface Clean (v) Reverse Procedures Installation	Cylinder Cylinder head Gasket Cylinder Head gasket Foot Pound Torque wrench Valve cover Valve cover gasket Cooling System Carburetor intake manifold exhaust manifold Thermostat Radiator Support bracket Valve cover water sending unit Spark plug valve adjusting screw Rocker arm mounting nuts Push Rod Valve cap engine block

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Technical Tasks

Repair and Maintenance of Wheeled Vehicles

Task # 091-634-1432-Adjust Clutch Linkage
on 1/4 Ton Truck M151

Basic Military	General	Technical
1/4 Ton Truck Shop Field Environment Tm	Assistance Remove	Clutch Linkage Clutch linkage Tool kit Return spring Rod Clutch Release equalizer shaft Pedal free travel

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Technical Tasks

Repair and Maintenance of Wheeled Vehicles

Task # 091-63H 1433- Adjust Choke, Throttle and Accelerator Controls on 1/4 Ton Truck M151

Basic Military	General	Technical
1/4 Ton Truck Shop Field Environment TM	Adjust Controls Ability Assistance hose Loosen Adjust fully clearance	Choke Throttle Accelerator Panel Air cleaner Air cleaner hose Carburetor Screw Cable Choke control cable stop Choke plate Throttle cable Throttle control plate Threaded Transition Accelerator Pedal Rod Wide open Accelerator pedal pad

Technical T Ks

Repair and maintenance of wheeled vehicles

Task #091-63H-1434 - Adjust Idle and Idle mixture on Carburetor on 1/4 Ton Truck 11/51

Basic	Military	General	Technical
1/4 Ton Truck		Adjust	Idle
Shop		Mixture	Idle mixture
Field environment		Assistance	Carburetor
		Electrical	Vacuum
		normal	Vacuum gage
		Temperature	Tachometer
		disconnect	Tachometer dwell meter
		Insure	Idle adjusting screw
		Proper	RPM
		Operation	Idle mixture screw
			inches of mercury
			Road Test

Technical Tasks

Repair and Maintenance of Wheeled Vehicles

Task # 091-634-1435 - Perform Technical Inspection on a 1/4 Ton Truck M151

Basic Military	General	Technical
1/4 Ton Truck Shop field Environment	Technical Ability Perform Inspection Assistance Loose Corroded missing frayed leaking kinked Switch operate properly: Noise unusual Vibration Worn Lights	Technical Inspection Lube levels electrical connection mounting bolts drive belts fuel lines Coolant hydraulic hydraulic lines fittings gauge Knock (as in engine) miss (as in engine) gears Shift brakes Shimmy Wandering Tires Accessories Windshield Windshield wipers Horn Heater

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Technical Task

Repair and Maintenance of Wheeled Vehicles

Task # 091-63H-1436 - Adjust and Bleed Service Brakes
on 1/4 ton Truck M561

Basic Military	General	Technical
1/4 Ton Truck Shop field environment	Adjust Ability Assistant Help Remove Place (v) wheel Insert Rotate lock (v) Turn click opposite direction forward backward insure Creeper Additional Clearance Required full Observe	Bleed Service brakes Hydraulic System Brake adjusting tool Jack Jack stand bleeder tube brake fluid Inspection plug Brakedrum Transmission Transfer (N) Neutral Block inspection hole Starwheel master cylinder master cylinder cover Align wheel cylinder bleed screw Air bubble Road Test

Technical T. 's

Repair and Maintenance of wheeled Vehicles

Task # 091-63H-1437 - Remove and Replace the Service Brake Assembly on 1 1/4 Ton Truck

Basic Military	General	Technical
1 1/4 Ton Truck Shop Field environment TM	Remove Replace Ability Assistant Raise Vehicle Tire Clear ground Wheel Installation Reverse Procedure	Service brake Assembly Bleed Brake System Hydraulic System Jack Jack stand Brake fluid Bleeder Block Air line Hydraulic line Axle Stub Axle Drive Axle Steering Knuckle

AD-A121 080

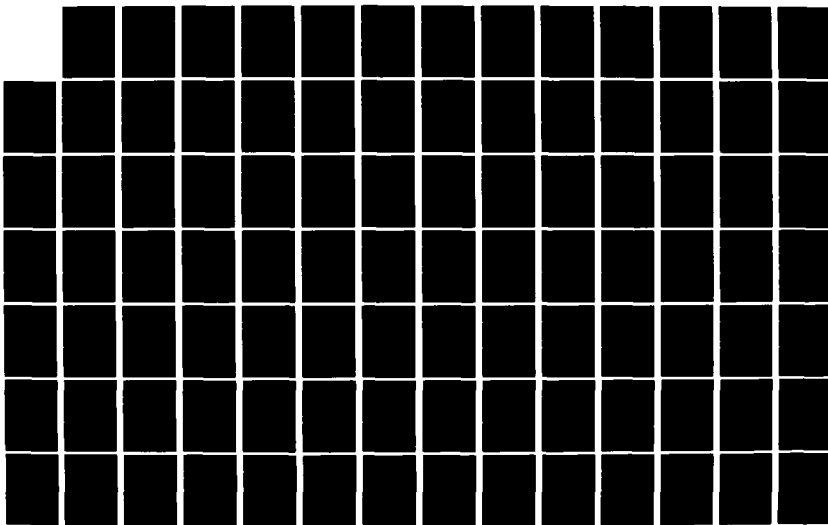
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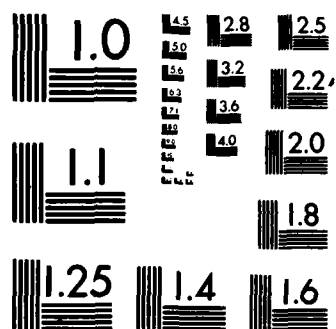
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UNCLASSIFIED

F/G 5/9

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Technical Task 3
Repair and Maintenance of Wheeled Vehicles

Task # 091-63H-1438 - Adjust parking brake handle and linkage on 1 1/4 ton truck M561

Basic Military	General	Technical
1 1/4 Ton Truck Shop field environment TM	Adjust Ability Assistance Release Turn clockwise Apply Pull firm Required Knob Counterclockwise Disconnect Lift Secure Install	Parking brake Parking brake handle linkage Tractor seat Console Adjusting Rod Align Lever Cage rest

Technical Tasks

Repair and Maintenance of Wheeled Vehicles

Task# 091-634-1439- Remove and Replace Parking Brake drum and shoes on 1 1/4 Ton Truck 177561

Basic Military	General	Technical
1 1/4 Ton Truck Shop field environment TM	Remove Replace Ability Assistance Reverse procedures Installation	Parking brake Brake drum Brake Shoe Tool kit Torque wrench Tractor Seat Console Propeller Shaft Transfer output Transfer output yoke backing plate output shaft

Technical To is

Repair and Maintenance of Wheeled Vehicles

Task # 091-63H-1440. Remove and Replace
Handbrake linkage and lever on 2 1/2 Ton Truck M135A2

Basic Military	General	Technical
2 1/2 Ton Truck Shop field environment TM ORD	Remove Replace Ability Assistance Reverse Procedures Installation	Handbrake Linkage Handbrake lever Tool Kit Nut brake cable lever mounting bolts Bracket

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Technical Tasks
Repair and Maintenance of Wheeled Vehicles

Task # 091-634-1441- Remove and Replace Handbrake
Shoes on 2 1/2 Ton Truck M35A2

Basic Military	General	Technical
2 1/2 ton Truck Shop Field Environment	Remove Replace Ability Assistance Disconnect Reverse Procedures Installation	Handbrake Brake Shoes Tool Kit Shoe Return Spring Handbrake Cable Anchor pin Brakedrum Slide Shoes

Technical To 's
Repair and Maintenance of Wheeled Vehicles

Task #091-63H-1442- Remove and Replace Air
Hydraulic Cylinder on 2 1/2 Ton Truck M35A2

Basic Military	General	Technical
2 1/2 Ton Truck Shop Field Environment T M	Remove Replace Ability Assistance Drain (v) Disarmament Reverse Procedures Installation	Air-Hydraulic Cylinder Tool Kit Air System Cylinder Shield Air Hydraulic Lines Stoplight Cable Cylinder mount bolts

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Technical To 's

Repair and Maintenance of Wheeled Vehicles

Task # 091-634-1443- Remove and Replace Air
Reservoirs in 2 1/2 Ton Truck M35A2

Basic Military	General	Technical
2 1/2 Ton Truck Shop field environment T.M.	Remove Replace Assistance Release Pressure Reverse Procedure Installation	Air Reservoir Tool Kit Draincock Air lines U-bolts

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Technical Tasks
Repair and Maintenance of Wheeled Vehicles

Task # 091-63H-1444 Remove and Replace Air Compressor from 2 1/2 Ton Truck M35A2

Basic Military	General	Technical
2 1/2 Ton Truck Shop field environment TM ORD	Remove Replace Ability Drain (v) Disconnect Reverse Procedures Installation	Air Compressor Tool Kit Wrench Air compressor pulley Air Tank Air outlet line Air Compressor line Air Compressor belt Clamp Nozzle Nozzle leak-off line mounting bolt Deflection Compressor wrench

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Technical T Ks
Repair and Maintenance of wheeled vehicles

Task# 091-6311-1445- Remove and Replace
Pressure Plate and Clutch Disk on 2 1/2 Ton Truck M35A2

Basic Military	General	Technical
2 1/2 Ton Truck. Shop field environment TM ORD	Remove Replace Ability Assistant Help Disconnect Drain (v) Inform Supervisor Assistance Attach lower (v) Exchange	Pressure Plate Clutch Disk Transfer case Transmission Jack Transfer assembly Transfer fixture Jack Jockey propeller shaft handbrake cable Transfer Shift linkage Speedometer cable

Technical Tasks
Repair and Maintenance of Wheeled Vehicles

Task # 091-63H-1447- Install 2 1/2 Ton Truck M35A2
Transfer case

Basic Military	General	Technical
2 1/2 Ton Truck Shop Field Environment TM ORD	Install position (V) Vehicle Ability Perform Steps Connect Fill oil	Transfer Case mount (N) Transfer Assembly Tool Kit Transfer fixture Jack mounting bolt Sperdmeter Cable Transfer Shift Linkage Handbrake Cable Propeller Shaft GO 90 oil

Technical T. ts
Repair and Maintenance of Wheeled Vehicles

Task #091-63H-1448 - Remove 2 1/2 Ton Truck M135P
Transmission

Basic Military	General	Technical
2 1/2 Ton Truck Shop field environment TM ORD	Remove Ability assistant Help Disconnect Drain (V) Loosen Inform Supervisor Assistance Install	Transmission Powerpack low wheel dolly Hoist Tool Kit Shift lever Front tunnel Intermediate Tunnel Transfer Shift lever Rod Propeller Shaft Flywheel Flywheel ground strap mounting nuts Sling bearing Clutch Release bearing Support Yoke

Technical Tasks

Repair and Maintenance of Wheeled Vehicles

Task # 091-63H-1449- Replace 2 1/2 Ton Truck M135A2 Transmission

Basic Military	General	Technical
2 1/2 Ton Truck Shop Field environment TM ORD	Replace Position (v) Vehicle Ability Perform Steps necessary complete (v) Installation Assistance Connect Fill	Transmission mounting nuts Torque (v) Flywheel Flywheel ground strap Propeller Shift Transfer reverse shift lever rod Clutch Control Rod Front Tunnel Intermediate Tunnel Shift lever 60 90

Technical Tasks

Repair and Maintenance of Wheeled Vehicle

Task # 091-634-1450 - Remove and Install Water Pump on 2 1/2 Ton Truck M35-A2

Basic Military	General	Technical
2 1/2 Ton Truck Shop Field environment TM	Remove Install Ability Disconnect Secure Installation Reverse Procedures	water Pump water Pump gasket Tool Kit Mechanical Puller Fan Fan-to-pulley adapter Fan belt Thermostat Air Compressor Water Lines Water pump pulley Pump Shaft Shaft Key Bearing Retainers Radiator outlet hose Block (engine block) Generator adjusting arm Inlet line fitting bypass line fitting

Technical Training

Repair and Maintenance of wheeled vehicles

Task #091-63H-1451 - Remove and Replace Radiator
on 2 1/2 Ton truck M35A2.

Basic Military	General	Technical
2 1/2 Ton Truck Shop field Environment TM	Remove Replace Assistant Help lift Drain loosen Pull Vehicle Installation Reverse Procedures	Radiator Align Tool Kit front brush guard coolant water hose clamp hose Radiator stay Rod Nuts washers springs front engine support

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Technical Tasks

Repair and Maintenance of Wheeled Vehicles

Task # 091-63H-1452 - Remove and Replace
Swing motor on 5-Ton Wrecker M816

Basic Military	General	Technical
5 Ton Wrecker Shop Field Environment TM LO	Remove Replace Motor Ability Assistance Drain Disconnect Secure Installation Reverse Procedures Refill	Swing Motor Tool kit Oil Container Oil Reservoir hydraulic hoses hydraulic motor Bolt Swing motor gearbox gearbox

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Technical Tasks

Repair and Maintenance of wheeled Vehicles

Task # 091-63H-1453 - Remove and Replace
Crane Turntable Pump Assembly on 5 Ton Wrecker M81

Basic Military	General	Technical
5 Ton wrecker Shop field Environment	Remove Replace Assistance gallon Clean Drain (v) Disconnect Secure Installation Reverse Procedure	Crane Turntable Pump Crane Turntable Crane turntable Pump Assm Tool Kit oil drum reservoir tank Hoses Bolts Pump Support

Technical Tasks

Repair and Maintenance of Wheeled Vehicles

Task # 091-634-1454 - Remove and Replace Power Steering Cylinder on the 5 Ton Truck M809-

Basic Military	General	Technical
5 Ton Truck Shop Field Environment	Remove Replace Ability Assistance Disconnect Loosen as — as possible Tap (v) Set (v) Installation Reverse Procedure	Power Steering Power Steering cylinder Tool Kit Front Shield Guard Hoses Cylinder Cap (v) dust shield felt pad Cotter Pin Front Adjusting Plug Socket Steering Knuckle Arm Rear Adjusting Plug Ball Seals Travel Adjustment

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Technical 1 o/s
Repairs and Maintenance of wheeled Vehicles

Task # 091-63H-1456 → Remove and Replace
Steering Gear Assembly on 5-Ton Truck M809

Basic Military	General	Technical
5-Ton Truck Shop Field Environment T M	Remove Replace Ability Assistance Help lift heavy Components Installation Reverse Procedure	Steering gear Assembly Steering gear Tool Kit pitman Arm Puller Bolts Shaft Extension U-Joint Control valve stud Shaft Pitman Arm Steering gear Cross-Shaft Stone guard hydraulic lines hoses gear Assembly Radiator Steering gear mounting bolts Steering gear mounting Plate Steering gear stud Shaft

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Technical Tasks
Repair and Maintenance of Wheeled Vehicles

Task # 091-634-1457 → Remove and Install
Lower Steering Column on 5 Ton Truck M809

Basic Military	General	Technical
5 Ton Truck Shop Field Environment T.M.	Remove Install Lower Ability Assistance Slide (V) Installation Reverse Procedure	Steering Column Foot-pound Torque Wrench Tool Kit Steering Shaft Extension U-Join Steering gear input shaft

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Technician Tasks

Repair and Maintenance of wheeled Vehicles

Task # 091-63H-1458-Remove and Replace Torque Rod
on 5 Ton Truck M809

Basic Military	General	Technical
5-Ton Truck Shop field Environment TM	Remove Replace Ability Assistance Rap (v) Loosen Tapered Sharply Pry (v) Insert Install Tighten	Torque Rod Nut Torque Rod Stud Tapered Stud Bracket Stud Cotter pin

Technical T KS

Repair and Maintenance of wheeled Vehicles

Task # 091-63H-1459 → Remove and Replace
Rear Spring Assembly on 5-Ton Truck M809

Basic Military	General	Technical
5-Ton Truck Shop Field Environment TM	Remove Replace Ability Rear Spring Assistance Capability Raise Vehicle Allow Access Installation Reverse Procedure	Rear spring Assembly Rear spring Safety stands Tool kit Load block (V) Axle Spring seat clamp bolts U-bolts Spring saddle guide bracket

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Technical To is
Repair and Maintenance of Wheeled Vehicles

Task# 091-63H-1460- Remove and Replace Front
Spring and Shockles on 5 ton Truck M809

Basic Military	General	Technical
5 Ton Truck Shop Field Environment TM	Ability Remove Install Replace Assistance lift Capability Repair Allow Clearance Installation Removal Procedure	Front Spring Shockles Frame Load Pin Spring hanger Shock (absorber) Mount (U) U-bolt

Technical Tasks
Repair and Maintenance of wheeled vehicles

Task # 091-634-1461- Remove and Replace Rear
Axle Assembly in 5 Ton Truck M809

Basic Military	General	Technical
5 Ton Truck Shops Field Environment TM	Ability Remove Replace Rear Assistance Vehicle Level (Adj) Grounding (Termination) Front Wheel Disconnect Raise Clear Support (V) Position (V) Installation Reverse Procedures	Axle Rear Axle Assembly 10 Ton Jack Blocking material block (V) Jack stand Spring hose Clamp Rear propeller shaft upper torque Rod Brackets Lower torque Rod plate Frame Side Rails

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Technical T. Ls
Repair and Maintenance of Wheeled Vehicles

Task# 091-634-1462- Remove and Replace Fuel
Supply Pump on Cummins WHC 250 diesel
engine (M800 Series Vehicles)

Basic Military	General	Technical
M800 Series Vehicles Shop Field Environment TM	Ability Remove Replace Assistance Disconnect Secure Reverse Procedures Installation	Fuel Supply pumps Diesel Engine Tool Kit Fuel Supply tube emergency Shutdown valve Accelerator return spring Pump lever Fuel Return line Bolts Air Compressor Rubber drive Drive unit

Technical T k

Repair and Maintenance of wheeled Vehicles

Task # 091-63H-1463 - Remove and Replace Brake Chamber and make a slack adjustment

Basic Military	General	Technical
8 Ton Truck Shop Field Environment TM	Ability Remove Replace Perform help heavy Component Drain (o) Disconnect Reverse Procedures Installation Loosen Clockwise Tighten Counterclockwise Loosen Adjustment	Brake Chamber Slack Adjustment Tool Kit Jack Jack Stand Tire Rim Air System Slack adjuster Air line Brake Chamber Mounting bolts Slack adjustment lock bolt Socket Adjusting bolt Locknut

Technical Tasks

Repair and maintenance of Wheeled Vehicles.

091-63H-1464

Task # Remove and Replace Transfer Pump
on 8 Ton Truck M520

Basic Military	General	Technical
8 Ton Truck Shop field Environment T11	Ability Remove Replace Assistance Disconnect Install Reverse (Adj) Sequence	Fuel Transfer pump Tool Kit Gasket Pump Gasket fuel lines Tachometer Adapter Pump mount bolts

Technical Tasks
Repair and Maintenance of Wheeled Vehicles

Task # 091-63H-1465 - Remove and Replace
Secondary Fuel Filter on 8 Ton Truck MS20

Basic Military	General	Technical
8 Ton Truck Shop Field Environment	Ability Remove Replace Assistance Unscrew Discard Reverse Produce Installation	Secondary Fuel Filter Tool Kit Filter Element Fuel pressure gage Fuel line Filter mount bolts Filter Assembly Gasket

Technical Task 2

Repair and Maintenance of wheeled Vehicles

Task # 091-634-1466- Remove, Service and Install Primary Fuel Filter on 8 Ton Truck M520

Basic Military	General	Technical
8 Ton Truck Shop Field Environment TM	Ability Remove Service Install Primary Assistance Disconnect Allow disassembly Clean (V) Dry (V) thoroughly Reverse Procedures Installation Inspect leak (N)	Primary fuel filter Tool Kit filter Element Kit Solvent drycleaning Solvent filter fuel lines mount bolts filter center nut Components Retaining Ring element component

Technical T. KS

Repair and Maintenance of Wheeled Vehicles

Task# 091-63H-1467- Remove 8 Ton Truck MS
Steering Gear and Column

Basic Military	General	Technical
8 Ton Truck Shop field Environment T/M	Ability Perform Steps Necessary Remove Assistant Help Lift heavy Component Suitable device Drain (v) Disconnect unplug Secure Inform Supervisor	Steering gear Steering Column Tool Kit Air system Brake Pedal Accelerator Pedal Bracket Floor Plate Drive Component Air lines Brake Valves Steering linkage gear housing Horn directional Signal controls electrical leads U-Clamp Support Bracket Gear mounting Bolts

Technical T. L.

Repair and Maintenance of Wheeled Vehicles

Task # 091-63 H-1468 - Install 8 Ton Truck M520
Steering Gear and Column

Basic Military	General	Technical
8 Ton Truck Shop field environment	Position (V) Vehicle Ability Perform Ship necessary Proper Installation Assistance Secure Connect Fill	Steering Gear Steering column Tool Kit gear mounting bolts U-Clamp Support bracket directional Signal control electrical leads Horn Steering linkage Gear Housing Air lines Brake Valve floor plate Drive component Accelerator pedal Bracket Brake pedal Air System

Technical - tasks
Repair and Maintenance of Medium Tanks

Task # 091- 63H-1499 - Remove M60 A1 Tank Powerpack

Basic	Military	General	Technical
M60 A1 Shop field Environment TM ORD	<u>Tank</u>	Ability Perform Steps necessary Remove Assistance Crew Place level (Adj) Surface Roller Allow Access front engine Turn off Disconnect Supervisor	Powerpack Wrecker wrecker crew Block (V) Tracks Turret master switch fuel valve back deck Transmission Shro final drive U-joint Shifter steering linkage brake cylinders fuel input return lines Air intake generator exhaust hose Accelerator linkage Tachometer Cable fire extinguisher hose electrical cable Transmission mount

Technical T. K.

Repair and maintenance of Medium Tanks

Task # 091-63H-1480 - Install M60A1 Tank
Powerpack

Basic Military	General	Technical
Tank Shop Field Environment TM ORD	Install position (V) Vehicle Ability Perform Slips Necessary Complete Proper Installation Assistance Connect Turn On	Powerpack mounts (N) Transmission mount bolts electrical cables Accelerator linkage Tachometer cable Fire Extinguisher hose fuel Inlet lines Return lines final drive U-Joints Shifter steering linkage brake cylinder back deck Transmission Shroud fuel valve master switch

Technical Tasks
Repair and Maintenance of Medium Tanks

Task #091-63H-1481 - Replace M60A1
Tank Engine

Basic	Military	General	Technical
Tank Shop field environment TM ORD		Ability Perform Steps Necessary Separate join Engine Assistance Drain (v) Disconnect Remove Supervisor Attach Transfer Reverse Procedure Rejoin	Powerpack Transmission engine assembly Tool Kit blocking material oil pan electrical Harness oil cooler line Engine Shroud Crankcase Crankcase breather tube exhaust pipe fuel Return line Transmission breather tube Input Shaft Sling Engine-to-transmission Mounting bolts Hardware

Technical T. ks
Repair and Maintenance of Medium Tanks

Task #091-634-1482 - Remove and Replace
Generator Assembly on M60A1 Tank

Basic Military	General	Technical
Tank Shop Field environment TM	Ability Remove Replace Vehicle Flexible Push Ham Access Disconnected Loosen Rotate Clockwise elongated Installation Reverse Procedures	Generator Powerpack Amp Tool Kit Duct Generator duct mounting Hardware Electrical leads U-bolt Generator Mounts Generator drive mount Generator Cradle locking nuts align Boot

Technical Task

Repair and Maintenance of Medium Tanks

Task# 091-63H-483 - Remove and Replace Starter
from M60A1 Powerpack.

Basic Military	General	Technical
Tank Shop Field Environment TM	Ability Remove Replace Vehicle Assistance Disconnect Front Pull Installation Reverse Procedures	Starter Powerpack Tool Kit Electrical Leads U-bolt Rear mount Rear Support mount Mount bolts Housing

Technical - sks

Repair and Maintenance of Medium Tanks

Task # 091-63H-1484- Remove and Replace Fuel
Injector Nozzles from Powerpack of M60A1 Tank

Basic Military	General	Technical
Tank Shop Field Environment T.M.	Ability Remove Replace Fuel Vehicle Assistance Engine Upper Disconnect Counterclockwise Installation Reverse Procedures New Throughout	Injector nozzle Powerpack Tool Kit Injector Wrench Shroud Fan Fan Shroud Valve cover access plate inlet tube outlet tube nozzle adapter Gasket

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Technical Tasks
Repair and Maintenance of Medium Tasks

Task #091-63H-1485- Remove Fuel Injector
Pumps from M60A1 Tank Powerpack

Basic Military	General	Technical
Tank Shop Field Environment TM	Ability Remove Vehicle Assistance Disconnect Separate	Injector. Pump Powerpack Tool Kit engine Turning Tool Fan Guard cooling fans Top Shroud High Pressure line clamps Dust caps Injector lines hydraulic tests fuel Return Hose electrical leads Inlet hose Throttle Linkage Oil line Turbocharger oil inlet hose clamp Engine Turning Tool Coupling mount bolts

Technical T 45

Repair and Maintenance of Medium Tanks

Task# 091-634-1486 - Install and Time fuel
Injector pump on M60A1 Tank Engine

Basic Military	General	Technical
Tank Shop field Environment TM	Ability Install Engine Vehicle Assistant Secure Rear Rotate Approximately Install lower connect correctly position (V)	Time (V) fuel Injector Pump Powerpack Engine Turning Tool Tool Kit Primary fuel Filter Bracket Throttle linkage Align Flywheel Timing mark Timing Pointer Intake valve Exhaust valve drive coupler slave coupler identification Pump coupler marks Pump mounting bolt Pump body mounting base marked tooth Timing hole Drive coupler backlash oil lines filter bracket Throttle bracket Screws Lan

Technical T-1 is
Repair and Maintenance of Medium Tanks

Task # 091-634-1487 - Remove and Install
Engine Shroud and Cooling fans on M60 A1
Tank Engine

Basic	Military	General	Technical
Tank Shop Field Environment TM		Ability Remove Install Engine Assistance Reverse Procedures Installation	Rear Deck Shroud Cooling fan Torx Kit Engine Shroud bolts Fan Guard bolts Side plate screws Cotter pin Slotted hex nut for shaft

Technical Task

Repair and Maintenance of medium tanks

Task # 09-63 H-1488 - Replace M60A1 Tank Transmission

Basic Military	General	Technical
Tank Shop field environment	Remove Ability Perform Steps necessary Replace Assistance Separate Engine Place (V) Suitable Allow drain containers Supervisor complete separate Transfer item Reverse Procedures Installation	Pumpjack Transmission Slide hammer Tool Kit blocking material blocking Shroud Shifting mount steering mount bracket linkage oil cooler lines breather tube electrical harness fuel return lines exhaust pipe input shaft Sling Hardware

Technical Task

Repair and Maintenance of Medium Tasks

Task # 091-63H-1489 - Perform Brakeband
Adjustment on M60A1 Tank Transmission

Basic Military	General	Technical
Tank Shop Field Environment TM	Ability Adjustment Assistant Apply Open Release Observe position disconnect Reverse Procedures reinstall item	Brakeband brakes Tool Kit Block (v) Tracks Grille Transmission Shroud Brake Inspection plug Align index mark A-line Slave cylinder Adjust worm

Technical Tasks

Repair and Maintenance of Medium Tanks

Task # 091-634-1490 - Remove and Replace Roadwheel Arm Assembly on M60A1 Tank

Basic Military	General	Technical
Tank Shop Field Environment GAA T.M. ORD	Ability Remove Replace Assistant help lift heavy component Loosen Bend Reverse Procedures Installation Insure	Roadwheel Arm Assembly. intermediate Roadwheel Arm Tool Kit Roadwheel lifting Arm Slide hammer wrench grease lug nuts jack up Roadwheel Hub cap locknut Flange Hub bearing assembly preformed packing Spindle Torsion bar plug Torsion bar Retainer Support housing Torsion bar splines Align hub bearing bind (v) back off

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Technical T's
Repair and Maintenance of Wheeled Vehicles.

Task # 091-63H-1491 - Remove and install
drive Sprockets on M60A1 Tank

Basic Military	General	Technical
Tank Shop Field Environment TM ORD	Ability Remove Install Assistance Help Remove Near Separate Secure Plurice Procedures Disassembly	Hub Assembly Sprocket Assembly Track Tool Kit Remove Fender nuts dowels Drill (N)

Technical Tasks

Repair and Maintenance of Howitzers & Light Tracked Vehicles

Task #091-63H-1501- Remove M113 A1 Carrier Powerpack

Basic Military	General	Technical
M113 A1 Carrier Shop Field Environment	Ability Perform Steps Necessary remove Assistance lift Crew Drain (v) Disconnect Secure Raise close Supervisor complete Component	Powerpack wrecker Grille Tool kit blocking material Cooling system Radiator hoses Vent lines fan drive belts Battery Ground cable Fuel flow valve bulkhead electrical cables Accelerator Range selector Throttle Controls propeller shaft Transmission oil inlet hose Differential Outlet hose Differential Pump Exhaust crossover pipe Starter ground lead Ramp hydraulic lines Tachometer Fuel control control

Technical T. list
Repair and Maintenance of Howitzers and Light Tracked Vehicles

Task # 091-634-1502 - Install M113A1

Basic Military	General	Technical
M113A1 Carrier Shop field environment TM ORD	Position (V) Vehicle Ability Perform Steps Necessary Complete Installation Assistance Crew Connect Disconnect Close Install Secure	Mount Powerpack Wrecker Grille Tool Kit blocking material Belts Tachometer fuel cutoff/control fuel lines starter ground lead Ramp hydraulic lines Exhaust crossover pipes Inlet hose Differential outlet hose Differential Pump Propeller shaft Transmission Accelerator Range Selector Throttle Controls Bulkhead Electrical Cables fuel flow valve Battery ground cable Mounting bolts drive belts exhaust pipe Air intake hose.

Technical To be
Repair and Maintenance of Howitzers and Light tracked Vehicles

Task # 091-634-1503- Remove and install
Cooling fan Assembly on M113A1 Carrier

Basic Military	General	Technical
M113A1 Carrier Shop Field Environment TM	Ability Remove Install Assistant Help Assistance Crew Drain (V) Disconnect Raise Upper Reverse Procedures Installation Adjust Tighten	Cooling fan Assembly Wrecker Service Kit Tool Kit electrical leads Exhaust pipe Radiator Tubes Vent lines Drive belts Powerplant Grille mounting bolts Hook Bracket washers Screws gage nut gage steel gage locknut

Technical Task's
Repair and Maintenance of Howitzers and Light Tracked Vehicles

Task# 091-634-1504- Remove and Replace Water Pump on M113A1 Carrier

Basic Military	General	Technical
M113A1 Carrier Shop Field Environment TM	Ability Remove Replace Assistance Drain (V) Disconnect Reverse Procedures Installation Adjust position (V)	water pump Tool Kit gasket Cooling system coolant pump drive belts bypass tube mounting belts belt bracket deflection 25-pound force

Technical Tasks
Repair and Maintenance of Howitzers and Light wheeled Vehicle

Task # 091-63H-1505- Adjust steering brakes
on M113 A1 Carrier

Basic Military	General	Technical
M113A Carrier Shop Field Environment TM ORD	Ability Adjust Assistance Park (v) level (Adj) ground Place (v) Removal Turn one at a time Released Lock measure (v) Pressure (v) Repeat Stop Correct obtain	Steering brakes Tool Kit Block (v) Tracks Steering Arms Forward Release position Adjustment access plug Differential Adjusting nut detent Steering lever lever Notch Steering lever quadrant Access plug.

Technical Tasks
Repair and Maintenance of Howitzers and Light Truck Vehicles

Task # 091-634-1506 - Remove and Replace
Differential Assembly on

Basic Military	General	Technical
M113 A1 Carrier Shop Field Environment	Ability Replace Assistance Remove Install Crew Drain (o) Disconnect Attach Pleural Procedures Installation	Powerpack differential Assembly wrecker tool kit oil container Propeller Shaft Wire hawse cable clamps Brake lever oil line coupling lifting sling Mounting bolts

Repair and Maintenance of Houses and Buildings

Test # 001-27-107 - Remains and the
assembly on 00301 to 00302

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Technical Tasks

Repair and Maintenance of Jeeps and Light Tracked Vehicles

091-63H-1508

Task # Adjust Transmission Linkage on M. 1000 Series

Basic Military	General	Technical
M102A1 Carrier Shop Ditch Environment TM	Ability Adjust Assistance Loosen Secure Pull Adjust obtain position Reverse	Transmission Linkage locknut range selector cross shaft Screw Nut Range selector line Neutral Shift lever end of travel detent free pin fit cross shaft

Technical Tasks

Repair and Maintenance of Heavy and Light Tracked Vehicles

Task # 091-634-1509 - Remove M109 Howitzer
Packaging

Basic Maintenance	General	Technical
M109 Howitzer Shop Field Environment	Ability Perform Steps Heavy Remove crew Place (V) Vehicle Level (Hdy) Evaluate Gun Turn off Accessories Remove Supervisor	Packaging Wrecker assistance Tool kit blocking material wrecker block (V) Tracks Right angle Hull Transmission Master Switch Battery ground cable Fuel line Fuel pump Fuel filter Electrical line Throttle linkage Shifting linkage Steering linkage Brake linkage Tachometer cable Speedometer cable Universal joint Air intake pipe Exhaust pipe Engine tank Sling

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Technical To 'E

Pipes and Maintenance of Engines and Light Tracked Vehicle

Took off 1515 - Remove and replace Fuel Supply pump on M109 Howitzer

Responsible	Special	Notes
M109 Howitzer Shop Field environment T.M.	Ability Remove Replace Engine Vehicle Remove Procedures Installation	Fuel Supply pump Tool Kit Exhaust crossover pipe Fuel lines mounting bolts

Technical Tasks

Repair and Maintenance of Howitzers and Light Tracked Vehicles

Task # 091-634-1511- Remove and replace fuel injector assemblies from M109 Howitzer.

Basic Military	General	Technical
M109 Howitzer Shop Field Environment TM	Identify Remove Replace Engine Vehicle Howitzer Swing Install Adjust Replace	Fuel Injectors Tool Torque wrench Valve cover assemblies Fuel lines Connectors Injector openings Rocker Arm Rocker Arm Valve Bolt Bracket Sight Clamp Line Exhaust Valve Time (v)

Technical Tasks Repair and Maintenance of Howitzers and Light tracked Vehicles 1512

Task# 091-624- Remove and Replace Hydraulic
Lockout Cylinder on M578 Recovery Vehicle.

Basic Military	General	Technical
M578 Recovery Vehicle Shop Field Environment TM ORD	Ability Remove Replace Assist Help Lift Rope Position (H) Disassemble Attach Installation Fully Extend Replace Tighten Reverse Procedures Operate	Lockout cylinder Slide hammer Puller Tool Kit OES oil Lockout Control Valve Hydraulic hose Support cylinder Retaining Pin filler plug Compress (V) filled port Retract Cylinder piston

Technical Tasks

Repair and Maintenance of Heavy and Light Tracked Vehicle.

Lot # 091624-1513- Service Hydraulic Reservoir Filter Element

Basic Information	General	Technical
Shop Field Environment Recovery Vehicle 7th	Hydraulic Repair Assistance Damage Replace Remove old Installation Replacement Filter	Hydraulic, reservoir filter element Tracked Tool Kit Degreasing Solvent Paint Thinner Filter Cap (new) Filter Strainer

Technical
 Operation & Maintenance of Heavy and Light Tracked Vehicles

Task # 091-634-1514- Service Hull Hydraulic
 System Filter

Basic Military	General	Technical
Shop Field Environment Recovery Vehicle MS78 TM	Ability Service Turn off Lift Unservice Assemble Remove Stop	Hull Hydraulic System Tool Kit Tracked Repair Kit Hydraulic Vehicle Equipment Storage Traverse Solenoid Hydraulic Hull Filter bank Head Hydraulic

Technical Tasks

Repair and Maintenance of Armored and Light Tracked Vehicles

Task# 091-63H-1515 - Replace cylinder head gasket on the 6V53 series engine that has been removed from an M113A1 carrier.

Basic Military	General	Technical
M113A1 Carrier Shop Good Environment () TM	Ability Replace Assistance Disconnect	Cylinder head Gasket Cylinder gasket kit Torque wrench Tool kit Hoist Sling Blower intake horn Injector control tube Valve cover gasket Injector control link

Skill Level II

MOS 63H Technical Tasks

List of Vocabulary Items Appearing Under
Subheading "Test Standards" in each Task

1. Adjustment	50.	Platform
2. Ammunition	51.	Supply
3. Applicable	52.	Capacity
4. ASST	53.	Publications
5. Based on	54.	Recorded
6. Components	55.	Repair
7. Conditions	56.	Recommends
8. Connections	57.	Recommends
9. Correctly	58.	Recommends
10. DA Form 2404	59.	Safety Procedures
11. Damage	60.	System
12. Decisions	61.	System
13. Defects	62.	System
14. Dislike	63.	System
15. Disturbance	64.	System
16. Effects	65.	System
17. Enter	66.	State
18. Equipment	67.	Switch Settings
19. Examination	68.	Tests
20. Failure	69.	TM
21. Follow	70.	Tools
22. Identify	71.	Troubleshoot
23. Impairment	72.	Unserviceable
24. Information	73.	Utilize
25. Inspect	74.	Vehicle
26. Inspections		
27. Installation		
28. Isolated		
29. Items		
30. Listed		

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Skill Level Trouble Shooting Automobile Equipment

Task C91-634-2526 - Troubleshoot Personnel Heaters

Basic Skills	General	Technical
Tracked Vehicles Shop Field Environment TM A Form 2404 ORD	Ability Determine Cause Malfunctions Assistance Applicable fail Start Continue Low Shut off odor fuel Identify defect System Serviceability Component utilize	Troubleshoot Personnel heater Tool kit Diagnose overheat Stop running output Smokes if necessary Blower Regulate Ventilation Air
<u>Materials Needed</u> TM 9-2300-257-20 Group 3 Sec III TM 38-750 ORD 531		

Skill Level 2

Troubleshooting Automotive Equipment

Task 091-634-2527 - Troubleshoot clutch on
wheeled vehicle

<u>Basic Milestones</u>	<u>General</u>	<u>Specific</u>
wheeled vehicle Shop Field environment TM (OR form 2404	Determine Cause Variables malfunction Assistance Applicable degrees (V) Identify Systems System Serviceability Component utilize Safety procedures	Troubleshoot Clutch Tool kit Clutch slips Clutch Drag Gears stick Shift Creep (V) Clutch pedal Clutch chatter
<u>Reference Manuals</u>		
TM 38-750 ORD 6373205 TTC Lesson 510-091-6426 F TTC Lesson 510-091-6427 F		

Skill Level II Troubleshooting Automotive Equipment

Task 091-63H-2528 - Troubleshoot Manual Transmission on wheeled Vehicle

Source Material	Concept	Performance
1/4 Ton wheeled Vehicle Shop Field Environment TM DA TM 2404 ORD TFC	Ability Manual Determine Cause Various Malfunction Assistance Applicable Excessive Noisy Leak Identify Defect Signs Servicability Components Wet/dry Equipment Safety Procedures	Troubleshoot Transmission Tool Kit Jump out of gear Gears clash Shift Locks
Reference TM 38-750 ORD 405 ORD 63B-205 TEC Lesson 50-891-6456-F TFC Lesson 50-891-6457-F		

Shell Level II

Troubleshooting Automotive Equipment

Task # 091-634-2529 - Troubleshooting Automatic Transmissions in Vehicle

	General	Technical
1.000 1.001 1.002 1.003 1.004 1.005 1.006 1.007 1.008 1.009 1.010 1.011 1.012 1.013 1.014 1.015 1.016 1.017 1.018 1.019 1.020 1.021 1.022 1.023 1.024 1.025 1.026 1.027 1.028 1.029 1.030 1.031 1.032 1.033 1.034 1.035 1.036 1.037 1.038 1.039 1.040 1.041 1.042 1.043 1.044 1.045 1.046 1.047 1.048 1.049 1.050 1.051 1.052 1.053 1.054 1.055 1.056 1.057 1.058 1.059 1.060 1.061 1.062 1.063 1.064 1.065 1.066 1.067 1.068 1.069 1.070 1.071 1.072 1.073 1.074 1.075 1.076 1.077 1.078 1.079 1.080 1.081 1.082 1.083 1.084 1.085 1.086 1.087 1.088 1.089 1.090 1.091 1.092 1.093 1.094 1.095 1.096 1.097 1.098 1.099	Ability Automatic Truck Identify Course Various Procedures Vehicle Applicable Full Shift System Component Utility Equipment Tools	Troubleshoot Automatic Transmission Tool kit Pressure gauge Group (S) Manual Range selector Drive shaft Overhaul Line change Slippage Shift Steering Shift

Skill Level 2

Troubleshooting Automotive Equipment

Task # 091-634-2530 - Troubleshoot Cooling System on M60 A1 Tank engine

Prerequisites	General	Technical
M60 A1 Tank Shop Field Environment	Ability Determine Cause Various malfunctions Assistance Diagnose operate cool (v) fail normal Sequence disposition Applicable utilize equipment Safety procedures	Troubleshoot Cooling System Tool kit Cooling fan operating Temperature
References TM 9-2815-200-25 Chap 3 Sec II ORD 412		

Skill Level II

Troubleshooting Electronic Equipment

Task # 091-634-2531 - Troubleshoot Electrical System on M60A1 Tank

Task #	General	Technical
091-634-2531	Ability Determine Course Various Malfunctions Indicators Resistor Performance Various Tanks Sequence Proper Control Insulation Diode Identify Wiring Equipment Electrical System	Troubleshoot Electrical System Task # Electrical test equipment L VCT Amplifier Trouble Light Battery Starline Generator Switching Signaling Unit Wiring Warning Lights

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Shell Level II

Troubleshooting of Mechanical Systems

Task #1 091-634-5002 - Top Pedal Brake
System on Vehicle

Basic Military	General	Technical
Vehicle Vehicle Shop Field Environment TM CPD TEC	Ability Determine Causes Various Malfunctions System Procedures Applicable Apply Secure Explain Identify Logical Sequence Identify Equipment Safety Procedures	Troubleshoot Brake System Test R/L Brake Fluid Pedal Draw (v) pull to one side Spongy pedal movement Weak braking action No pressure see hydraulic system
TM 38-750 OED 410 TEC Lesson 510-091-6456-F TEC Lesson 510-091-6456-F		

Skill Level II Troubleshooting Aklona line equipment

Task # 091-634-2533 - Troubleshoot working
 Crane on 11816 5-Ton Wrecker

Basic Information	General	Technical
Shop Field Environment TM	Ability Determine Cause Various Malfunctions Assistance Fail Operate Direction Swing Retract Extend Rotate Raise Lower Sequence isolate utilize equipment Safety procedures	Troubleshoot Crane 5-Ton Wrecker Tool Kit Hydraulic Powering Boom (N) Hoist Drum
Preference 7/11 9-2320-260- 34/11, Chap 2		

Skill Level II
Troubleshooting Automotive Engines

Task # 091-634-2535 - Troubleshoot Vehicle Engines

Basic Military	General	Technical
Shop field environment T.M. G.I. Form 2409	Find out engine Determine Cause Assistance Authorized Component Excessive Smoke White Blue Black Shut off defects Serviceability Component Utility Equipment Safety Procedures	Multifuel engine Diesel engine Exhaust system Tool sets Tool kit Crank (V) Start Runs rough Power Idle (V) Knocking Timing Overheating Squeaking Squeal Running hot oil pressure oil consumption

Skill Level II
Troubleshooting, Automobile Equipment

Task # 091-63H-2536 - Troubleshoot wheeled vehicle --
Steering Systems.

Race Military	General	Technical
wheeled vehicle shops Field Environment TM DA Form (RD	Ability Troubleshoot Determine Cause Magnitude - Resistance Applicable Leak (v) Identify Effects Susceptibility Component Utilize Supply Information	Steering System Common tool set Special tool set General Mechanical tool kit Steering wheel Hard to turn Wander Backlash Excessive steering Shimming Special Tire wear

Skill Level II

Translating Audiovisual Equipment

Tack # C9163H-2537 - Troubleshot wheeled vehicle suspension system

Basic Military	General	Technical
wheel & vehicle fluid movement Sing 0 2004 6 0.	Ability Determine Cause Various Malfunction Resistance Insufficient Feasible Friction Motion Motion Motion Lack of S.g Tendency Effects evaluate communicable to unit ability to control to control	Troubleshoot Suspension System Common tool set Special tool set general maintenance Spring Spring Spring

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Skull Level II.

Transliterated Automatic Equipment

Work # 016-624-2528 - Assessment and
of Rattle Damage

<i>Battle Ground</i>	<i>Literature</i>	<i>Technical</i>
<i>Battle Ground</i> <i>Cavalry</i> <i>Ch.</i> <i>T. E.</i> <i>T.M.</i> <i>W.H.</i> <i>am. m. s.</i>	<i>Ability</i> <i>Familiarity</i> <i>Determination</i> <i>Practicality</i> <i>Repair</i> <i>Evacuation</i> <i>Construction</i> <i>Equipment</i> <i>Simulated</i> <i>Majorities</i> <i>Possible</i> <i>Type</i> <i>Effects</i> <i>Publication</i> <i>Experiments</i> <i>Amplified</i> <i>Chart</i> <i>Access</i>	<i>Concurrent</i> <i>General</i> <i>+ not equipment</i> <i>Left</i> <i>Repair parts</i> <i>Job performance time</i>

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Skill Level II
 Inspection of Performance & Equipment
 Task # C91-634-2549- Inspect clutch assembly

Readability	General	Technical
2-10m Clutch Slave Self Engagement TIM 50 100m 5000	Ability Inspect Determine Condition Components Rack Disassembled Damage Loose Broken Missing Loose Damaged Missing Communicable Utility Equipment Safety	Clutch Assembly Clutch Pressure plate Release bearing Lin. Mechanism Clutch cable Pressure spring Spline Drive member Spline Drive shaft Damper Pin Facing

Skill Level II

Inspection of Automotive Equipment

Task #091-634-2550 - Inspect fifth wheel

Basic Skill	General	Technical
Sharp Field Environment 7.11 CR Form 2454	Ability Inspect Determine Condition Serviceability Components Assistance Tight Missing Worn Cracked Broken Bent Identify Defect Serviceability Components Utilize Equipment	Fifth wheel assembly Truck tractors Removal of Mounting bolt Plunger Coupler Lock Lubed Tractor have dry rot Couplings Seal Retainer Spring Electrical plug Wire Cap

Skill Level II Inspection of Automotive Equipment

Task # 091-63H-2551- Inspect Hydraulic
System on M816 5-Ton Wrecker

Scenario/Station	Inspected	Findings
Shops Field environment 111 on 1000 3000 () 00 ()	Ability Inspect Determine Condition Semi-automated Vehicle Components Pneumatics Leak (v) worn crack bent missing defects usage equipment safety procedures	Hydraulic System Wrecker See mechanical report Slipping Insulator Shorting worn contact electrical Turntable Pump bearings pitted Scored Surface wear mating surfaces clean with Solvent cleaner Hoist motor Elevating Cylinder Piston Rod bush Boom assembly welds Sheaves pins Boom cable Bowl gear box Hoist winch

Skill Level II

Inspection of Automotive Equipment

Task # C91634-2552- Inspect Cooling System on A160 A1 Tank

Visual/Physical	General	Technical
Visual Tank Shop Field Environment Oil Oil can spray	Ability Inspect Serviceability required Determine Condition operational in place best clean leak (N) clean found utility equipment Exhibit 1	Cooling System Gen. mechanic's tool kit oil lines oil cooler hoses sealing unit fan blades bypass valve Shims deflectors

Skill Level II

Inspect Automobile Equipment

091-634-2553

Task # Inspect Tracked Vehicle Suspension System

Basic Military	General	Technical
Tracked Vehicle Shop Inspection TNI Form 2404 ORP	Ability Inspect Determine Condition Serviceability Components Locate Applicable item adjustment where (N) Cause malfunction from leakage bent fluid leak Excessive play adjust brake malfunction defect utilize equipment	Suspension System Tracks conduits and blocks Center guide pins bushings Hawking clips Lock bolts bushings cylinders shafts pins Sprocket mounting bolts Roadwheels wear plates bearings Seals Tensioning device Locknut cylinders

Shield Level II Inspection of Automotive Equipment

Task # 091-63H-2007 -- Inspect power train
of wheeled vehicles.

Basic/Military	General	Technical
wheeled vehicle Shop Field maintenance T/M DA Form 2007 ()	Ability Inspect Determine Serviceability Components Assistance Applications Noise Vibrations Slipping bent broken leaks (v) unusual signs Safety Inspection Safety Equipment Safety Procedures	Power Train General Mechanism Tool Kit Clutch Chattering Linkage Ball joint thread Transmission Shifting noise overloading Slippage Jumping out of gear Transaxle Driveline (P) Axle Assembly bearing Propeller Shaft U-Joint

Skill Level II

Inspection of Automotive Equipment

Task# 091-63H-2556- Inspect Electrical System of wheeled Vehicle

Basic Military	General	Technical
wheeled Vehicle Shop Field Equipment 7 M CC Form 8454	Ability Inspect Determine Condition Serviceability Components Assistance Applicable In place Tight Clean broken Adjusted correct lost (1) operate properly defects utilize Equipment Safety procedure	Electrical System Wires frayed Dry Rot Clamps connections burned out headlight Lenses Gage Batteries Fluid level hold downs Vent. Cap Starter Generator Seals Sending unit Switches Arising

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Skill Level II Inspection of Automotive Equipment

Task #0917634-2557 - Inspect Brake Systems on Wheeled Vehicle.

Basic Military	General	Technical
Wheeled Vehicle Shop Fluid Equipment TM (DA Form 2404)	Ability Inspect Determine Conditions Serviceability Component Assistance Equipment Habit (w) Tools Route Performance Loss Wear Working free/ operate sufficient Identify Defects Vehicle Equipment	Brake System Test Kit Master cylinder fluid level Boot Pedal linkage free travel Lines Fittings Crimped Striped threads Shoe drum linings metal to metal contact Sealed Springs Keepers Adjustment screw Wheel cylinder pistons Air compressor belts Air hydraulic cylinder Skid shield Pitcock Safety valve

Skill Level II
Inspection of Automotive Equipment

Task# 091-634-2558 - Inspection of
Vehicle Engines

Basic Notation	General	Technical
Shop Tools Equipment TM DR Form 2404	Ability Inspect Vehicle Engines Assembled (Adj) disassembled (Adj) Determine Operational Components Assistance Installed (Adj) Replicable Start Excessive noise Leaking Abnormal Proper Installation Components Visible Leak (n) Unusual Vibration rough Damaged Serviceability utilize Equipment Safety Precautions	Tool set Cranking speed full power Governor Proper cooling Carbon buildup Scratch Cracked Sealed metal surfaces Proper fit Stuffed Studs Bolt Washer

Skill Level II Inspection of Automotive Equipment

Task # 091-63H-2559- Inspect Steering System
of wheeled Vehicle.

Basic Military	General	Technical
wheeled Vehicle Shop Field Environment DA Form 2404 TM	Ability Inspect Determine components Assistance Applicable Conditions Team View Damage Adjustment Measure Label Proper Identification Label utilize equipment Safety equipment	Steering System Standard Steering Power Steering Tie Rods Threads Drag Links Dust Cover Steering Column Assembly Excessive Play Seals Steering Level Pitman Arm Power Steering Pump Mount bolts Steering universal fittings Steering cylinder Wheel alignment Toe-in Camber

Skill Level II:
Inspection of Automotive Equipment

Task # 091-63H-2560 - Inspect Gas Particulate Units on Tracked Vehicles

Basic Military	General	Technical
Shops Field Environment T.M. DA Form 2404	Ability Inspect Determine Condition Serviceability Components Assistance Vehicle Applicable Bent missing broken Torn damaged cracked exposed distorted clean contaminated Identify Effects Utilities Equipment Safety Procedures	Gas Particulate Unit Tool kit Box Clamps Seal Hose Connections Plates Blowout Support Filler

Skill Level II

Inspection of Automotive Equipment

Task # 091-634 - 2561 Inspect Air/Fuel and
Systems on Vehicles

Basic Military	General	Technical
Shop field environment 7 A DA Form 2404	Ability Inspect Determine Condition Serviceability Component Assistance Applicable Clean Torn missing Loose operating Torn Leaking Cracked broken holes Identify defects utilize Sight, touch, smell Sight, touch, smell	Air Intake Exhaust System tool Kit Screwdriver Sillie Washers Clamps blower motor Chain Intake manifold bolts Turbochargers Fan clamps Exhaust pipes mufflers

Skill Level II
Testing of Automotive Equipment

Task #091-634-2572 - Test Piston wear limit

Basic Military	General	Technical
17D Series Engines Shop environment TM DA Form 2404	Ability Determine disassembled Assistance measure Diameter Top bottom opposite center compare identify locate utilize equipment Safety Procedures	wear limits Pistons cylinders outside micrometer bore gage Skirt Piston pin Cylinders in barrel fins cylinder skirt

Skill Level II

Testing of Automotive Equipment

Task # 091-634-2573 - Test Fuel System
on M60A1 Tank.

Basic Military	General	Technical
M60A1 Tank	Ability	Fuel System
Shop	Test	Test Kit
Field Environment	Various	Pressure gauge
TAM	Component	In tank fuel pumps
DA Form 2404	Determine	output pressure
(KD)	Operating	Pressure heater pump
	Procedures	Fuel tank
	Condition	Select valves
	Diagnose	Fuel filter
	malfunction	Injector Pump
	Defect	Injector Nozzle
	Utility	Explain problems

Skill Level II

Testing of Automobile Equipment

Task #091-634-2574- Perform fuel flow test on 8V71T Engine Fuel Pump in M109 Howitzer

Basic Military	General	Technical
M109 Howitzer Shop Field Environment TM DA Form 2404	Ability Perform Instructions Disconnect hold start engine Require measure Approximately per minute Immersion -tube Chuck Identify Effects utilize Equipment Safety procedure	Fuel Flow Test Fuel System Tool Kit Fuel Container Fuel Return Line RPM air bubbles

Skill Level II

Testing of Automotive Equipment

2575

Task # 091-634- Stall test M 60 H1 Tank
Power pack

Basic Military	General	Technical
M60 H1 Tank Shrapnel Field Environment TM DT Form 2534 CRD	Ability Vehicle determine operation System Insure correct Start Personnel observe Readings Install compare Identify defects utilize equipment safety procedures	Stall test Powerpack Ground Running cable brake tool kit Oil levels normal operating temperature Lock brakes Shift Transmission High Range Full Throttle Tachometer running kit Braking into Road operate Shift lever Throttle

Skill Level II
Testing Automotive Equipment

Task # 091-634-2576- Perform Cam Lobe
Lift Test on Camshaft in Vehicle Engine

Basic Skills	General	Technical
Shop environment TM ORD DA Form 2404	Ability Perform Vehicle Power Source Applicable Attach Position Indicator Rotate Compare Total Identify defects determine Serviceability components utilize equipment Safety Procedures	Camshaft lobe lift test Camshaft engine block Dial Indicator Tool Kit Engine block Tip of the indicator base of the camshaft lobe Zero (0) base scale nose of the lobe Reading standards

Skill Level II
Testing Automotive Equipment

Task #: 091-63H-2577- Test Engine Exhaust
and Intake Valve Springs

Basic Ability	General	Technical
Shop environment TM DA Form 2400	Ability Test Place measure Scale Serviceability Identify Select Inspect Utility Equipment Safety procedures	Intake Exhaust Length Pressure Resistance Springs Cylinder head Valve spring Valve spring Tester Tester handle Spring length Pressure testing

Skill Level II Testing Automotive Equipment

Task # 091-63H-2578- Measure Gear Backlash

Basic Military	General	Technical
Shop Equipment TM DA Form 8407 CRD	Ability Measure Vehicle Engine Assistance Attach Rotate in place Hold gear operate Compare determine assemble compare utilize Equipment Specify procedure	Camshaft Camshaft Engine block crankshaft dial indicator Tool Kit Zero (V) gear gear teeth dial Reading

Skill Level II

Testing Automotive Equipment

091-634-2579

Task # Test Engine Block and Head in use

Basic Method	General	Technical
Shop	Ability	Engine head
Field Environment	Test	Engine Block
7 m	Vehicle	Wayport
Environment	Engine	Tool kit
(	disassembled	Straightedge
(	Thoroughly	Crack
	clean	acid
	Surface	flattening
	Measurement	Block
	Length	
	Thickness	
	Width	
	Length	
	Letting out	
	Identify	
	defects	
	Serviceability	
	Components	
	utilize	
	Equipment	
	Capable of	

Skill Level II

Testing Automotive Equipment

091.634.7580

Task # Perform Periodic Check on vehicle
Running from an 8V 71T Engine

Basic Military	General	Technical
Drop Equipment T.M. DN Form 2404	T.O.T Ability Program Engine Assistance String Attach Tie (U) Wrap cut Maintain points source locate assembly (U) fluxuate Identify Defects determine Serviceability Components utilize Logistics Control procedures	preload test Idle bearing 8V 71T Engine Idle gear Clamping fixture Vise Scale Tool kit gear coat with oil gear teeth Spring scale axis hub Sliding pin

Still Seal II Testing Automotive Equipment

Task # 091-634-2581- Test the Flywheel
Removal

Basic Bibliography	General	Technical
Shop Field Environment TM DA Form 2404	Ability Perform Required Test determine Amount engine Resistance Attach Position (V) Rotate mark (H) Equal determine Identify Defects Serviceability components identify Equipment Removal	Wear Clutch Lever Flywheel M809 5-Ton Truck Dial Indicator Tool kit Flywheel housing Clutch Lever Bench

Skill June II

Testing Mechanical Components

Task # 09536-2582-Measure cylinder
Sleeve bore on 8V71T Engine

Basic Military	General	Technical
Shop Safe Environment T.N. 5-11 () () 0. () ()	Test Ability Measure Disassembled Wetness pencil paper Thoroughly clean Surface Insert Vary Seamlessly Simple direct stable Confidential Stylish procedure	Inside disassemble Cylinder sleeve 8V71T Engine Cylinder bore gage Zero (V) bore gage dial Axis

Skill Level II Testing Automotive Equipment

Task # 091-63H-2583 → Check and play
on crankshaft of 8V71T Engine

Basic Military	General	Technical
Shop Environment T.M. DA Form 2404	Test Ability Measure Installed Assistance Heavy Set (v) Zero Read Observe Reading Sense Identify Interpret Communicate Components Utilities Equipment Log by discussion	Check play Crankshaft 8V71T Engine Main bearing engine block Seal indicator Tool fit Mount Indicator mount Second end Main bearing cap Crankshaft parts resize thrust washers

Skill Level II

Repair and Adjust

Task # 091-63H-2594-Adjust Hydraulic
Pressure Switches

Basic Ability	Function	Tools/Equipment
Shop field Environment T01	Test Diagnose Adjust open correct Pressure Assistance Set (V) Touch Connect Apply defect check check open Installation	pressure Switch Power pack XM667E1 Carrier Tool kit 2000 PSI Pressure Regulator Multimeter Adjusting Screw Contact Switch Hydraulic Hose Continuity test Negative lead Wire Pin Contact Hydraulic Hose

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Skill Level II

Repair and Adjustment of Automotive Equipment
2595

Task # 091-6341 Remove and install closed
breach Sealing System (CBSS) compressor
and drive gear box

Basic Medium	General	Special
Shop field knowledge TH	Test Ability Remove install Assembly Assistance Turnover Mount Remove and Installation	CBSS Compressor Gear Box M60 F2 Tank Tool Set Master Sealant Removal sealant Fit inside tube Gear Box Unit Line Compressor and Sealant Electrical Cord Strap Inlet and Outlet Support tube Lock Drive gear Transmission Unit

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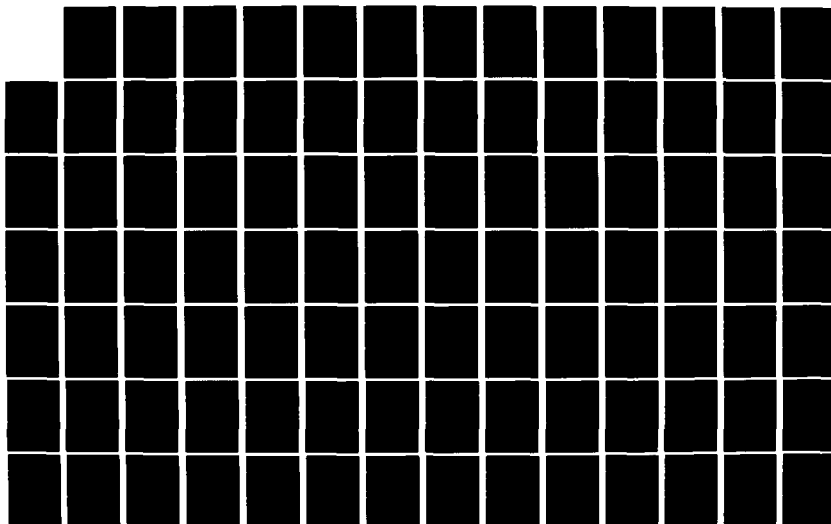
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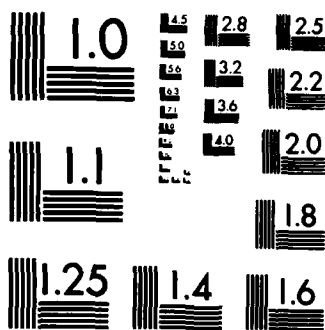
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Skill Level II

Repair and Adjustment of Automotive Equipment

Task # 091-634-2596 - Adjust Boom and
Tow Winch Brake on M578 Recovery Vehicle

Basic Military	General	Technical
Shop Field environment TM ORD	Test Ability Adjust hold load Assistant Start engine ~~maintain~~ Tighten	Boom Tow winch brake M578 Recovery Vehicle Tool kit PSI Pressure gauge Tee joint male valve hydraulic input line Adjustment locknut Back off Rod threads Feeding Adjusting nut Slack Take up Pressure displacement

Skill Level II

Repair and Adjustment of Helicopter Equipment

Task #091 634-2597 - Repair Hydraulic Powerpack Assembly.

Basic Ability	General	Technical
Shop Field equipment DA Form 2407 TM	Test Ability Repair Assemble Disassemble Replace defective parts	Hydraulic Powerpack XM667E1 missile system Tool - it Valves Switches Leaking Service filters Wiring Gaskets

Skill Level II
Repair and Adjustment of Automotive Equipment

Task # 091-63H-2598 - Repair Hydraulic
System Components

Receivable	General	Technical
Shops Field Environment TM	Tested Ability Remove Install Components	Hydraulic System M578 Recovery vehicle Slipping Tool Kit Lift capabilities Hydraulic pumps Booms Winches Control valves

Skill Level II

Repair and Adjustment of Wheeled Vehicles

Task # C91-63H-2599 - Repair Hydraulic Valves

Basic Military	General	Technical
Shop Field Environment T/M DA Form 2407 ORD TEC Lesson () () ()	Test Abilities Repair Assistance Replace broken distorted bent Remove damaged	Valves Hydraulic System M48 Recovery Vehicle Tool Kit Relief Valve Unloading Valve Springs Seal plates Washers Nuts Lock washers Washers and lock washers

Skill Level II

Repair and Adjustment of wheeled vehicles

Task # 091-634-2600- Repair End Cover Assembly
on CD 850 Transmission

Basic Military	General	Technical
Shop Field Maintenance TM JP Form 2407	Test Ability Repair Inspection Remove Damaged broken adjust Replace inspect Work	End Cover Assembly 30 850 Transmission 1150 850 Trans Tool Kit Torque Wrench Ball Soapstone Nicks Leak Retaps Threads Studs Beatings Repack Sealings Gaskets Clutch Spring Valve seating

Skill Level II: Repair and Adjustment of wheeled Vehicle

Task #091-634-2601 - Repair Axle Assemblies

Basic Military	General	Technical
Shop Field Environment T.M. DA Form 2407 ORD TEC Lesson ((	Test Ability Repair wheeled Vehicle Assistance Applicable Vehicle Replace Adjust broken defective	Axle assembly Tool set Wheel bearing wrench Repack Wheel bearing Axle shaft Seals Grease Turner bearings CV Boots Output flanges Input flanges U-Joints

Skill Level II

Repair and Adjustment of Wheeled Vehicles

Task # 091-634-2602 - Repair Steering Systems

Basic Military	General	Technical
Shop Field Instruction 7 M DA Form 2607 ORL Th Lesson	Test Ability Repair Assistance Components wheeled vehicle Applicable Replace Adjust	Steering System Tool kit Toe-in gage mechanical puller Steering wheel Steering column Steering gear Pattern Arm Drag Link Tie Rods Steering Knuckle hydraulic lines hoses pump Reservoir steering cylinder Toe-in Camber caster

Skill Level II

Repair and Adjustment of Wheel & Vehicle

Task # 091063-2603- Repair Hydraulic Pump & Motor

Basic/Military	General	Technical
Shop Field Environment TNI DA Form 2409 TTC Lesson	Test Ability Repair Defective Component Assistance Replace worn parts Remove Slugs	Hydraulic System M578 Recovery Vehicle Tool Kit Winch motor Reaching Shocks bars Scratch Slipping Seals backup Rings Scoring Winch Control Valve Defective Hoses Wiper Seal Rings Spool

• Skill Level II • Repair and Adjustment of Wheeled Vehicles

Task # C91-63H-2604- Repair Vehicle Engines

Basic Method	General	Technical
Shop field environment TN, DA Form 2407/77 O'RD	Test Ability Repair vehicle engine Remove inspect Assistance Applicable defective excessive Install Adjust Replace Applicable	Authorized tool set Common tool set General mechanic's tool kit Engine block Cylinder sleeve Carbon Piston assembly Rings Pins Bearings Crankshaft main bearing Screw rod play screw oil pump Cylinder Head valves Springs Injectors Pac to know Push Rod Compression oil level Wash/Wash Turn (v) Racks Valve cover Accessories
	Clutch	

Skill Level II

Repair and Adjustment of wheeled vehicle

Task #091-62H-2605 - Adjust Toe-in on wheeled vehicle.

Basic Military	General	Technical
Sharp field Environment TM	Test Ability Perform Correct Process Place (v) Smooth level surface Straight ahead (Adj) front visual distance Ground adjustment octave	Toe-in Adjustment 2 1/2 Ton Truck Toe-in gage Tool kit Tires Inflate wheel gage AXLE Ends bearing Side rails Pendant chain gage point inspection Toe-in Rod ends

Skill Level II

Repair and Adjustment of wheeled Vehicle

Task # 091-63H-2606 - Adjust main pressure and
Connector pressure values on M60 A1 Tank

Basic Military	General	Technical
Shop Field Environment TM	Test Ability Adjust Assistant Set (v) Required Pressure Setting	main pressure setting Connector pressure M60 A1 Tank Transmission Valve engine Speed Tool Kit PSI Pressure Gauge Torque wrench Spanner Transmission Oil main pressure valve neutral range main pressure regulator RPM Torque (v) Connector <u>plug</u>

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Skill Level II:

Repair and Adjustment of wheeled vehicles

2609

Task # 091-63H- Adjust Low and neutral range bands on M60 A1 Tank Transmission

Basic military	General	Technical
Shop Field Environment TM	Test Ability Adjust Remove Loosen prevent held learn allow adjustment mark marks Learn Low tail operation	Low bands Reverse bands M60 A1 Tank Transmission Tool Kit Torque wrench Transmission oil brake floor plate Adjustment nut lock plate Cocknut Adjusting screw Knob Torque (v) align Clot Scribe adjusting screw head Road test

Skill Level II

Repair and Adjustment of wheeled vehicles

Task # 091-63H-2508 - Adjust Shifting linkage
on M60A1 Tank

Basic Ability	General	Technical
Shop Identification T.M.	Test Identify Adjust Resistant Problems (if) Vehicle Indicators Observe Measure Adjustment Lubricate Retighten Balance Position	Shifting linkage M60A1 Tank Shift Road Test Tool Kit Transmission Neutral position Transmission fluid Shift lever Belt Jam nut Lock pin Align

Skill Level II
 Repair and Adjustment of Wheeled Vehicle
 - Task # 091631-0001 - Adjust Steering
 Forks on Motor Truck

Basic Military

General

Technical

Adjust
 Steering Forks
 TM
 091631-0001

Fluted
 Ability
 Adjust
 Adjustment
 Vehicle
 Various
 Check
 Adjustment
 receive
 Loosen
 Contact
 Repair
 Forks

Steering Forks
 Motor Truck
 Road test
 Test at
 Transmission Oil
 Leaked Indicator
 Align
 Indicator dot
 jam nut
 Road end

Skill Level II

Repair and Adjustment of Wheeled Vehicle

Task # 091-63H-2610 - Adjust valves on AVDS 1790
Engine from an M60A1 Tank

Basic Mileage	General	Technical
Shop field Environment T.M.	Test Ability Adjust Remove Vehicle Allow Access Insert Rotate Loosen Insert Perform Install Components	Cylinder valves AVDS 1790 Engine Tool kit Engine Turning Tool Torque Wrench Engine Shims Vane Cooling fan Screw driver oil cooler Hardware Valve Cam valve adjusting screw plate Compression Stroke Timing marks intake valve adjusting locknut feeler gage Screw pad valve stem Torque exhaust valves

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Skull Level II
Repair and Adjustment of wheeled Vehicle

Engine on M109 howitzer



Skill Level II

Repair and Adjustment of engine

Task # 321-634-2612 - Perform maximum
no-load speed adjustment on a
Hawthorn engine

Basic Military

General

Technical

Shop
Field Environment
TM

Test
Ability
Performance
Distances
Remove
Observe
Reading
Situation
Step (v)
Raise
Lower
Install
Fit
Lower

No-load Speed adjustment
DV71T Engine
M109 Howitzer
Tool Kit
Read deck
Buffy's Saver
Manual Counting
RPM
Spring - loading Assembly
Space
Pistol
Shinno
Maximum no-load speed
Spool lever

206

Skill Level II

Repair and Adjustment of submachine equipment

Task # 091-634-2613 - Adjust Idle Speed on M109 Howitzer

Basic Military	General	Technical
Shop field Environment	Test Ability Adjust Assistant Remove Engine Start Require Help avoid Contact Loosen Tighten Loose Install	Idle Speed M109 - 1000 RPM Tool Kit Rear deck High Speed Spring Retainer Normal operating Temperature Back out Buffer Screw Idle Speed Adjusting Screw 1000 RPM Bracket

Skill Level II

Repair and Adjustment of Wheeled Vehicles

Task # 091-624-2614- Repair Governor Lap on
M109 Howitzer Engine

Basic Military	General	Technical
Shop Field Environment T.M.	Test Phobos Adjust Assistant Start Demand Repair Stop Cover (V) Clock Hold operate Turn Lighting Reinstall Items	Governor Gap 8V71T Engine M109 Howitzer Tool Dead stick Governor Spring housing cover Back out Ruffer cover Adjustment Idle Speed RPM Shutoff cable Governor distributor pin Lap Low Speed Spring Gap High Speed Spring Plunger Gap adjusting screw Lap setting

28/1

Skill Level II

Repair and Adjustment of wheeled Vehicles

Task # 091-63H-2615- Adjust Hydraulic System on 6,000-Pound Forklift.

Basic Military	General	Technical
Shops Field environment TM CRD	Test Ability Adjust Assistant Start (s) Engine observe Relate.	Hydraulic Valve RT Forklift Tool kit Hydraulic pressure 3000 Hydraulic pump PSI Adjusting Screen Two-spool valve

209

Skill Level II

Repair and Adjustment of wheeled Vehicles

Task # 0943H-2616 - Adjust Intake and Exhaust valves on 11809 Series Engines

Basic Dictionary	General	Technical
Shop: Field Environment TM	Test Adjust Ability Install Vehicle Assistant Remove Rotate Loosen Insert Touch Insert Require Help	Valves Cummins NHC 250 Engine Turn over Tool Kit Torque wrench Valve cover align Timing mark Technic Lock Positioning Screw Valve Rocker Arm Feeler gauge Rocker Lever Valve Stem Torque (ft) Cylinder Compression Stroke

Skill Level II
Repairs and replacement of selected vehicle

Task # C91-2211-2007- Perform Fuel Rack
Adjustment on the 8V71T Engine on
M109 Howitzer

Basic Military	General	Technical
Shop	Ability	Fuel Rack Adjustment
Field Equipment	Perform	M 109 Howitzer
TM	Engine	Tool Kit
	Resistance	Rocket Arm Covers
	Remove	Back out
	Loosen	Idle Screw
	Tight	Adjusting Screw
	Turn	Water pan
	Slight	Water tank
	movement	Fuel Valve
	Push	Inner Rack adjusting screw
	Center	Outer Rack adjusting screw
	Loose	Center
	Tight	Control Valve
	Manually	Emergency stop screw
	Adjust	Full fuel position
	Check	Screw (v)
	properly	Injector Rack
		Snatch back
		Seal head
		Pin head
		Left hand
		Washer (H)

911

Skill Level II Repair and Adjustment of wheeled vehicle

Task # 091-634-2618- Adjust Gear Tooth
Contact in Differential of M35A2 2 1/2 Ton Truck

Basic Military	General	Technical
Shop Solid Performance TM	Test Ability Adjust Remove Vehicle Drain (V) Assistance Require Pain (V) Rotate Compare Perform Adjustment Equal Thickness Maintain Remove Procedures	Gear tooth fit Differential Assembly 2 1/2 Ton Truck Tool Kit Lead paint Shims Dist. adjustment Gear pinion Bevel pinion Teeth contact marks Mating Short Heel Contact Bevel pinion rear bearing cone Bevel pinion front bearing cone Helical pinion outer bearing Backlash Short toe Contact Low narrow-tooth contact High narrow-tooth contact

Skill Level II

Repair and Adjustment of Wheeled Vehicles

Task #091-063H-2619 - Adjust rear locklash
in differential of 5000 pound payload

Basic Skills	Skills	Tools
Shop Auto Environment TM O&D	Test Ability Adjust Remove Assistance Install Tighten approximate Tighten Said by Side Control align	Locklash Differential carrier forklift Tool kit Dial Indicator Torque wrench Rockers Adjusting nut plain diff. case nut Seat (V) (seat the bearing) Bearing Shims Washers Grease cup bolts

Skill Level II

Repair and Adjustment of Windmills

Task # 091-63H-2620 - Adjust windmills

Basic military	General	Technical
Shop	Test	Wind
Field Environment	Ability	Wind brake
TM	Adjust	1816 5 ton wrecker
	Assistant	brake drum
	observe	overheating
	Stop	Tool kit
	Turn	Drag brake
	Pull	Dicing and
	Chockwice	Front wind drum
	bottoming	Calice
	load	1816 5 ton wrecker
	Vehicle	Automatic brake
	Hill	Brake drum
	Stop to	Rear wind brake
	Wario	Air Chamber, pressure, etc.
	to pull	Levers
	Helper	Locking
	Disconnect	gap
	Loosen	Shims
	Connect	
	Station	

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Skill Level II

Repair and Adjustment of Wheeled Vehicles

Task# 091-634-2021- Repair Standard
Shift Transmission

Basic Military	General	Technical
Shop Field Environment T.M. ORD	Test Ability Repair Assistance Applicable Defect Bent Broken Worn	Standard Shift Transmission Tool Kit Shifting Fork Main Drive Shaft Interlock plate Gears Bearings

Skill Level II

Repair and Adjustment Wheeled Vehicle

Task # 091-634-2622 - Install, Synchronize and Time Magneto on M88 Recurring Vehicle Engine.

Basic Military	General	Technical
S.I.	Ability	Synchronize
Field Improvement	Test	Time (v)
T.M.	Install	Magneto
C&D	Remove	M88 Engine
	Vehicle	Power Takeoff Lamp
	Assistant	Align
	Remove	M88 Pump
	Rotate	Tool kit
	Figure	Engine Timing
	Helper	Magneto Timing Light
	Inspect	Set (v)
	Connect	Magneto Screws
	Turn on	Valve
	Inspect	Cylinder
	Perform	Magneto Timing marks
	Stop	Left bank magneto
		Back off
		Pointer
		Mount

Skill Level II Repair and Adjustment of wheeled Vehicles

Task # 07-624-2623 - Install and Time Fuel
Injector Pump on LDS 465-1 Engine

Basic Military	General	Technical
Shop Field Environment TAM	Test Ability Install Assist Relate Removal Recheck Replace Secure Inspect Block Remove Reinstall Adjust Inspect Adjust	Time (U) Fuel Injector Pumps LDS 465-1 Engine 2 1/2 Ton Truck Overhaul Tool Kit No. 1 Cylinder Compression Stroke Align Timing Mark Piston Pump Assembly Timing Pump Drive Camshaft Valve Leak Valve Cover

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Skill Level II

Repair and Adjustment of wheeled Vehicle

Task # 091621-2624- Repair wheeled Vehicle
Suspension System

Basic Mileage	General	Technical
Shops Indivisual 7 1.1 ORD	Test Ability Repair Component Assembly Applicable Require Replace Rebuild Inspect	Suspension System wheeled Vehicle Common Tool Set Special Tool Set Test Set Shocks Springs Ball Joints Control Arms King Pins Steering Assembly Diagrams Specifications Repair Assembly

208

Skill Level II

Repair and Adjustment of wheeled vehicle

Task # 091.63H-2625- Repair Tracked Vehicle Suspension system

Basic Philosophy	General	Technical
Steps field Environment TM	Test Ability Repair Assistant Applicable Require Help Component Replace Adjust Worn parts	Suspension system Tracks Carriers Idlers Tracked Vehicle Common tool set Special tool set General maintenance Shocks Road wheel rim Torsion bar Adjusting links Leaf springs Springs & rollers Bushings Pins Rivets Seals Arms Hydraulic Bores Washers Nuts End connections Service manuals Locks Spindle

27

Skill Level II

Repair and Adjustment of selected vehicles

Task# 091634-2536- Repetition and
change

<i>Known History</i>	<i>Symptoms</i>	<i>Treatment</i>
<i>Shops</i> <i>Took down from</i> <i>7 M</i> <i>ORD</i>	<i>Test</i> <i>Ability</i> <i>Repair</i> <i>Require</i> <i>Plaster</i> <i>Wash</i> <i>Examination</i> <i>Dissassemble</i> <i>Reassemble</i> <i>Examine</i> <i>Slight</i> <i>Scratches</i> <i>Scraped</i>	<i>Main Hydraulic pump</i> <i>M8? Repairing valve</i> <i>Tool kit</i> <i>Slide Hammer, etc.</i> <i>Hammer</i> <i>Screw</i> <i>Gasket</i> <i>Leak stopper</i> <i>Pressure gauge</i> <i>Screws</i> <i>burs</i> <i>Thick wire</i> <i>Throttling Valve</i>

Skill Level II

Repair and Adjustment of wheel Vehicle

Task # 091-63H-2628 - Remove and Demolish
Slurry wall Section. Done on
6000-pound RT Forklift.

Basic Military	General	Technical
Shops	Test	Steering made selective in
Field Environment	Ability	6000. pound RT foot lift
TM	Remove	Tool kit
	Install.	Steering Component, Motor etc.
	Resistance	Selecter handle
	Tag	Hydraulic Lines
	Remove (V)	Valve
	Installation	Valve mounting etc
		Valve Assembly.

722

Skull Level II

Repairs and Adjustment of wheeled Vehicle

DA Form 2629-2629- Reman and initial check
 Gen Assembly

Reman

General

Technical

Shop

Field Environment

TM

Test

Ability

Remove

Install

Assistance

Tag (1)

disconnect

Reverse

Reconnect

Installation

Steering gear assembly

RT Tool Kit

Tool Kit

Steering wheel pulley

mechanical pulley

Horn button

Steering wheel

Steering wheel arm

Helman Arm

Cap (1)

Hydraulic line

Column

Upper support bracket

Lower support bracket

Chassis

Skill Level II

Repair and Adjustment of wheeled Vehicles

Task # 091-62H-2630 - Remove and Replace Rear Axle Assembly from the 6000 Pound RT Forklift.

Basic Milestone	General	Technical
Shop Field Environment TM	Test Ability Remove Install Assistant Use (v) Suitable Capability Reason Rear Vehicle Clear B — Place (v) Require Help Lenses (v) Remove Procedures Installation	Rear Axle Assembly RT Forklift Lifting device Tool Kit Latching Material Jack Stands Block (v) Frame Wheels Propeller Shaft Steering cylinder Linkage Hydraulic hose Cooling system Rear axle Pivot Transverse bolts

Skull Level II

Repair and Adjustment of wheeled vehicles

Task #1 091 631 2631 - Remove and Install the Engine from a 6000-Pound RT Forklift

Basic Military	General	Technical
Shop	Test	Removal Assembly
Field Environment	Ability	RT Forklift
TM	Remove	lifting device
	Install	Hand
	Assistant	Can
	Disassemble	Can second
	Attach	muffler
	Remove	muffler cover
	Help	Exhaust pipe
	Transfer	Transfer engine
	Item	Fuel lines
	Remove	Electrical lines
	Procedure	Has cleaned name
		Propeller shaft
		Engine mounting
		Engine clamp
		Wrecker cable

Skill Level II
 Repair and Adjustment of wheelbarrow
 091-134-2632

Task 1: Remove and Install main Hydraulic
 Pumps on the 6000-Pound RT Forklift.

Basic Military	General	Technical
Shops field Environment TM	Test Ability Remove Install Disengage Reverse Procedures Installation	Main Hydraulic Pump RT Forklift Tool kit Tag (v) Cap (v) Hydraulic Hoses Pump to trans. case mounting hole

Shell Level II Repair and Adjustment of wheeled vehicles

Task # 091-634-2633- Remove and install
Two-speed valve assembly on 6000-pound
RT Forklift

Route Note	Abilities	Tools
Shop field Environment 7 M	Test Ability Remove Install Assistance Reviewed Review Procedures Simulation	Two-Speed Valve Assembly RT Forklift Tool Kit Console Panel Hydraulic Hoses Control Levers Wrench (v) Hydraulic Line Valve Assembly Valve Assembly

APPENDIX 7

Appendix 7 is the machine-generated vocabulary list. It was not useful for our purposes. It is included as a vocabulary reference.

2	ALIGNS
22	ALL
6	ALLCN
1	ALPHABETICAL
3	ALTERNATOR
1	ALTERNATORS
1	AMPED
8	AMPETER
1	AMCUNT
2	AMPERAGE
28	ANCHOR
1	ANCHOR
639	AND
1	AND JOIN
1	ANGLE
1	ANVIL
6	ANY
1	APP
10	APPLICABLE
2	APPLIED
7	APPLY
1	APPROXIMATELY
2	APP
1	AR
2	AR5CR
22	ARE
1	AREA
21	ARM
3	ARMS
2	ARMY
1	AROUND
1	ARRIVAL
13	AS
1	ASSEMBLE
2	ASSEMBLIES
43	ASSEMBLY
4	ASSIGNED
77	ASSISTANCE
16	ASSISTANT
25	AT
13	ATTACH
1	AUG
2	AUTHORIZED
1	AWAY
10	AXLE

1 RIO
4 B
4 B/U
6 BACK
: B/CMSPLATE

1 BACKLASH
1 BACKWARD
1 RALL
5 HANK
4 BAR

2 BASE
1 BASED
8 BATTERY
1 BATTERYGROUND
195 BE

6 BEARING
25 BEEN
2 BECOP
1 BEFCPC-OPERATIONS
1 BEGINNING

1 BEGINS
12 BEING
2 BELCHOS
1 BELCH
2 BELT

13 BELTS
1 BEND
6 BETWEEN
4 BINDING
1 BINGS

6 BLACK
1 BLACKOUT
3 BLANK
7 BLEED
3 BLEEDER

16 BLACK
9 BLOCKING
1 BLOOPER
1 BCON
5 BOLT

55 BELTS
1 BUCK
2 ACOT
1 ACOTS
2 BOTH

1	SCVL
15	BRACKET
4	BRACKETS
36	BRAKE
2	SHAFEBAND
4	BRACKETDRUM
10	BRACKES
1	BRICKSPOSS
3	BREATHER
3	BRING
1	BUSH
1	BUSHING
2	MILKHEAD
1	BUMPER
1	BUTTONS
75	BY
2	RYPASS
6	C
1	CAR
21	CABLE
4	CABLES
1	CAGE
3	CAM
3	CAN
1	CANTEEN
1	CANVPS
4	CAP
3	CAPABILITY
2	CAPS
3	CAPTURED
7	CAPTURETOR
2	CARGO
23	CARRIER
4	CASE
2	CATEGORY
1	CAUSE
60	CAUSED
1	CAUSES
1	CAUSTIC
1	CENTER
4	CHAMFER
2	CHANGES
95	CHAF
1	CHAF-3
6	CHAFER

1	CHAP2
1	CHAF4
2	CHECK
2	CHECKS
1	CHIFPEC
1	CHISFLS
6	CHORE
21	CIRCUIT
1	CIRCUITS
2	CLAPP
8	CLAPPS
10	CLEAN
1	CLEANED
3	CLEANER
2	CLEANNING
3	CLEAP
3	CLEARANCE
1	CLICK
1	CLICKS
2	CLIFBOARD
1	CLCCK
4	CLOCKWISE
3	CLCSP
3	CLCSED
1	CLCSE
10	CLCTING
15	CLUTCH
2	CCIL
25	COLUMN
1	COLUMNS
1	CCMPCN
12	COMPLETE
12	CCPLETED
1	CCPLETION
5	CCMPONENT
23	CCMPONENTS
1	CCMPCUO
1	CCMPRESS
5	CCMPRESSION
7	CCMPRESSOR
2	CCNCITION
33	CCNCITIONS
1	CCNCT
56	CCNACT
2	CCNECTED

1 CONNECTING
5 CONNECTION
6 CONNECTIONS
1 CONNECTOR
1 CONNECTORS

3 CONSOLE
2 CONTAINER
1 CONTAINERS
1 CONTAINS
2 CONTENTS

2 CONTINUITY
10 CONTROL
1 CONTROLLED
6 CONTROLS
3 CONTROL

2 COOLER
2 COILING
1 COINTEGRATED
17 CORRECT
3 CORRECTLY

1 CORRODED
1 CORROSION
2 COTTER
1 COTTERPIN
2 COUNTERCLOCKWISE

3 COUPLER
1 COUPLERS
4 COUPLING
10 COVER
1 COVERED

2 COVERS
1 CRACLE
2 CRANE
2 CRANK
1 CRANKCASE

1 CRANKING
4 CREW
1 CRITERIA
2 CRISIS
1 CRISIS-SHAFT

3 CROSSOVER
1 CUMMINS
1 CUP
2 CURRENT
1 CUT

2	CUT OFF
2	CUTTING
41	CYLINDER
4	CYLINDERS
5	D
19	DA
13	DAMAGE
1	DATE
2	DATES
8	DC
1	DEC
4	DECEMBER
8	DEFECTIVE
43	DEFECTS
3	DEFLECTION
1	DEPARTMENT
1	DEPARTURE
1	DESCRIPTION
2	DESTREC
1	DESTINATION
1	DETECTED
3	DETENT
20	DETERMINE
2	DEVICE
1	DIAGNOSTIC
2	DICSEL
1	DIFFERENCE
13	DIFFERENTIAL
1	DIRECTION
2	DIRECTIONAL
1	DISASSEMBLY
1	DISCARD
102	DISCONNECT
2	DISCONNECTING
1	DISCONTINUE
4	DISK
1	DISPATCH
1	DISPATCHER
2	DISTRIBUTION
3	DISTRIBUTOR
1	DC
1	DGES
2	DCLLY
1	DGCF
1	DCCFS

1	DWELS
26	WRAIN
1	DRAINCKRS
1	DRAINING
1	DRAFTS
25	DRIVE
1	DRIVER
1	DRCP
3	DRUP
1	DRY
3	DRYCLEANING
3	DUCT
1	DUAL
1	DURING
3	DUST
7	DWELL
4	E
19	EACH
1	EARLY
1	ED
2	EDGES
2	EFITER
1	ELECTICAL
28	ELECTICAL
1	ELECTRICALLY
9	ELEMENT
1	ELEGATED
1	EMERGENCY
1	EMPTY
9	END
2	ENDS
25	ENGINE
1	ENGINE-TO-TRANSMISSION
1	ENGINE'S
1	ENOUGH
20	ENTER
1	ENTERED
3	ENTRYS
87	ENVIRONMENT
1	ENVIRONMENT
1	EQUALIZER
184	EQUIPMENT
9	ESC
9	EVALUATE
3	EVALUATED

11 EVALUATION
1 EVEN
1 EVELY
1 EXCESSIVELY
1 EXCHANGE

19 EXHAUST
3 EXPECTED
1 EXPCSE
1 EXTEND
2 EXTENSION

2 ~~EXHAUST~~ PUSHER
1 MYTHERME

1 F
91 FAILURE
1 FAILURE

14 FAN
1 FAN-TO-PULLEY
1 FANBELTS
6 FANG
1 FAR

3 FAULT
1 FAULTS
2 FEP
1 FELT
1 FENCER

1 FIEL
93 FIELD
3 FIG
1 FIGURE
6 FILL

3 FILLER
26 FILTER
3 FINAL
2 PINC
2 FIRE

1 FIOP
1 FIT
1 FITTING
1 FITTINGS
2 FIVE

3 FIXTURE
1 FLANGE
1 FLASH
1 FLEXIBLE
1 FILTER

3	FLOOR
3	FLOCK
4	FLUID
4	FLYWHEEL
35	FM
221	FOLLOW
40	FOLLOWED
2	FOLLOWING
1	FOLLOWING
2	FOOT-PCUND
1	FOOT-POUNDS
54	FOR
1	FORCE
1	FORINSTALLATION
14	FORM
5	FORMS
2	FORWARD
3	FOUP
6	FRAME
1	FRAYED
2	FREE
1	FREELY
1	FRESHVIR
126	FROM
2	FROM
18	FRONT
52	FUEL
1	FULL
3	FULLY
3	FUNCTION
2	FUNCTIONAL
1	GAA
1	GAMETS
21	GAGE
3	GAGES
1	GAIN
1	GAPD
2	GARFISON
12	GASKET
5	GASKETS
2	GASOLINE
20	GEAR
4	GEARBOX
1	GEARS
42	GENERAL

24 GENERATOR
 1 GENERATOR/ALTERNATOR
 1 GENERATORS
 1 GC
 2 GC-90
 1 GOVERNOR
 1 GREASE
 1 GREEN
 12 GRILLE
 2 GRIPES
 1 GRINDER
 16 GROUND
 2 GRCLP
 4 GUARD
 1 GUARDS
 1 GUIDE
 1 GUN
 1 HARNESS
 5 HAWK
 1 HAWK
 6 HAWKRAKE
 6 HANDLE
 1 HANDLES
 11 HANDTOOLS
 1 HANGERS
 3 HARDWARE
 7 HARNESS
 22 HAS
 15 HAVE
 14 HESC
 2 HEADS
 1 HEATER
 7 HEAVY
 1 HEELS
 15 HELP
 1 HEX
 2 HIGH
 1 HIGHER
 2 HIGHEST
 1 HIS
 3 HCIST
 2 HCLC
 3 HGLS
 1 HGM
 1 HOCNED

4	MCRA
18	MOSE
12	MOSES
3	MOUSING
9	HOWITZER
1	HOWITZERS
10	MUR
5	MULL
1	MYC
21	HYDRAULIC
10	I
1	IDENTIFICATION
1	IDENTIFIES
6	IDENTIFY
10	IDLE
11	IF
6	IGNITION
12	II
3	III
2	ILITY
3	ILLUSTRATION
40	IMPROPER
349	IN
2	INCH
4	INCHES
3	INDEX
1	INDICATE
1	INDICATED
1	INDICATING
4	INDIVIDUAL
8	INFORM
10	INFORMATION
3	INITIAL
1	INITIALS
1	INJ
1	INJECTION
15	INJECTOR
6	INJECTORS
1	INJURY
5	INLET
6	INFLY
2	INSERT
1	INSIDE
1	INSPECT

1 INSPECTED
 6 INSPECTION
 1 INSTALLATION
 70 INSTALL
 100 INSTALLATION
 5 INSTALLED
 1 INSTALLING
 1 INSTRUCTED
 1 INSULATED
 15 INSURE
 4 INSURING
 3 INTAKE
 2 INTERMEDIATE
 2 INTERPRET
 4 INTC
 1 INVENTORY
 23 IS
 2 ISSUE
 5 IT
 14 ITEV
 11 ITEMS
 5 ITS
 2 IV
 2 IX
 27 JACK
 1 JACKS
 1 JAN
 1 JOINTS
 4 JUMPER
 2 JUST
 1 KEY
 2 KINMED
 85 KIT
 1 KIT/SET
 2 KITS
 1 KITS/SETS
 4 KNCP
 1 KNFAS
 1 KNCRS
 2 KNUCKLE
 1 L
 1 L-SHAPED
 25 LEAD
 15 LEADS
 1 LEAK-OFFLINE

24/0

1 LEAKING
1 LEAKS
3 LEAVE
1 LESSON
2 LESSONS

6 LEVEL
1 LEVELS
14 LEVER
3 LEVERS
14 LIFT

3 LIFTING
9 LIGHT
1 LIGHTS
1 LIMITED
1 LIMITS

12 LINE
14 LINES
3 LINK
22 LINKAGE
2 LINKAGES

1 LIARS
1 LIST
16 LISTED
1 LISTING
1 LISTINGS

1 LL
1 LNSTALL
9 LC
3 LOAD
1 LC*CRANK

4 LOCATE
3 LOCATION
3 LOCK
4 LOCKING
5 LOCKOUT

6 LOCKOUT
1 LOCKS
1 LOG
1 LOGISTICAL
3 LOGSF

15 LOOSEN
7 LOW
11 LOWER
1 LUR-2320-260-12
1 LURLEVELS

124

1 LUPPICANTS
 1 LUPPICATED
 1 LUPPICATION
 1 LUG
 10 LVCT
 1 LO
 7 M
 16 MADE
 4 MAINTAIN
 2 MAINTAINING
 7 MAINTENANCE
 5 MAKE
 1 MAKING
 1 MALFUNCTION
 2 MALFUNCTIONS
 1 MANAGEMENT
 3 MANIFOLD
 4 MANUAL
 1 MANUALS
 1 MAP
 3 MARK
 4 MARKED
 1 MARKING
 1 MAPPS
 5 MASTER
 8 MATERIAL
 1 MAY
 2 MEASURE
 3 MEASURED
 2 MEASUREMENT
 1 MEASUREMENTS
 99 MEASURES
 92 MECHANICS
 4 MECHANICAL
 2 MEDIUM
 19 MEET
 1 MEETHESE
 1 MEETED
 1 MEPCUP
 1 MECS
 14 METER
 4 MICROMETER
 2 MICROFOTERS
 1 MILES
 2 MINUTES

8	MIRACR
1	MISS
1	MISSING
5	VIKTUPE
1	VLIPAI
1	MOMENTARILY
1	MORC
1	MORNING
12	MOTCP
16	MCUNT
1	MOUNTED
33	MOUNTING
3	MCUNTS
1	MOVE
11	MULTIMETER
1	MUSHROOMED
216	MUST
9	M106
74	M112AI
17	M151
4	M153-SERIES
42	M15A2
14	M520
3	M553
13	M551
5	M57R
35	M60AI
2	M6CC
20	M609
1	M612
7	M916
1	M915
2	M
2	MAME
2	NATIONAL
2	NEAREST
104	NECESSARY
1	NECK
8	NEED
2	NEEDLE
10	NEGATIVE
1	NEST
3	NEUTRAL
17	NSA
12	NC

3 NO-G
 96 NC-GO
 2 NOGC
 1 NCISE
 1 NCVENC LATURE
 3 NORMAL
 5 NOT
 4 NCYCM
 6 NOTE
 1 NCUR
 3 NOV
 1 NOZZLE
 4 HSN
 11 NUMBER
 3 NUMBERS
 7 NUT
 12 NUTS
 3 O
 11 OR SEAVE
 1 OBSERVED
 4 OBTAIN
 2 OBTAINED
 4 ODCMETER
 3 CES
 87 OF
 9 OFF
 1 OHMS
 25 OIL
 4 OLD
 1 OLCMETER
 243 ON
 77 ONE
 1 ONE-HALF
 1 ONP/INC
 7 OPEN
 1 OPENED
 1 OPENING
 1 OPERABLE
 67 OPERATE
 2 OPERATES
 3 OPERATING
 1 OPERATION
 1 OPERATIONS
 4 OPERATOR
 1 OFFSITE

198	OR
43	ORD
2	ORDER
1	ORDERLY
1	ORDERLY
1	ORDERS
2	ORDERS
6	ORDERS
5	OTHER
1	OUT
5	OUTER
2	OUTLET
3	OUTLINE
1	OUTPOST
2	OUTSIDE
2	OVER
1	P
1	PACKING
3	PAD
1	PAIN
4	PAIN
1	PAMPHLET
1	PANEL
1	PANS
7	PAPER
8	PARA
1	PARK
4	PARKING
2	PART
5	PARTS
6	PEDAL
5	PENCIL
50	PERFORM
2	PERFORMANCE
8	PERFORMANCE
1	PERFORMED
1	PIECE
1	PILCT
2	PIN
4	PINS
4	PIPE
7	PIPES
2	PISTON
2	PITMAN
18	PLACE
1	PLAN

0.

13	PLATE
1	PLAYES
14	PLUG
7	PLUGS
1	PGINT
7	PCINTER
6	PCINTS
1	POLISHED
5	PUGL
2	PCPT
1	POPTS
17	POSITION
8	POSITIONED
1	POSITIONING
2	POSITIONS
13	POSITIVE
1	POSSIBLE
14	POST
1	PCUNDS
12	PONER
46	PCWERPACK
1	PCWERPLANT
7	PRECAUTIONS
1	PWEFORMED
2	PREFARE
3	PREPARING
2	PRESCRIBED
2	PRESENT
1	PRESECC
10	PRESSURE
1	PREVENT
3	PPIMARY
1	PRIMING
1	PROCP/AL
1	PROCEEDRES
2	PROCEDURE
247	PROCEEDUSES
1	PROCEEDING
85	PROGRRP/REFERENCE
11	PROPELLER
19	PROFER
14	PROPERFLY
3	PROVIDED
1	PRY
2	PSI

245

1	PUBLICATIONS
4	PULL
4	PULLER
3	PULLEY
1	PULLING
74	PUMP
1	PUMPING
1	PUNCHES
3	PUSH
2	PUT
1	QUACRANT
1	QUANTITIES
1	P
1	P-2
14	RADIATOR
1	RADIATORS
1	RAILS
0	PAISE
1	RAISED
2	RAMP
19	RANGE
1	RANK
1	RAP
1	RATED
88	RATING
1	RAULIC
1	REACHEC
3	READ
22	READING
9	READINGS
1	READJUST
2	REACS
1	REATING
14	PEAR
2	REAFVIEW
1	RECEIVE
9	RECPD
5	RECOVERY
6	RED
1	REDUCE
2	REFER
2	REFILL
1	REFLECTING
2	REGULATIONS
1	REINSTALL

1	REJOIN
9	RELEASE
7	RELEASED
1	REMARKS
17	REMOVAL
321	REMOVE
24	REMOVED
2	REMOVED
1	REMOVING
9	REPAIR
4	REPEAT
76	REPLACE
1	REPLACED
1	REPLACEMENT
1	REPORT
30	REQUIRED
1	REQUIREMENTS
7	RESTRUCTURE
3	RESTRUCTURE
6	RESISTANCE
1	RESISTERS
2	RESISTOR
3	RESU
99	RESULT
1	RESULTIN
2	RESULTS
1	RETAINER
1	RETAINERS
2	RETAINING
1	RETRACT
1	RETURN
20	REYLIN
43	REVERSE
1	REVERSING
2	RHECSTAT
2	RIGHT
1	RIM
1	RING
3	ROAD
6	ROADWHEEL
1	ROADWHEELS
7	ROCKER
1	ROCKREPAIR
24	RCD
3	RCD

1	ROOM
2	RCFE
4	RCYATE
4	RPM
1	RYADARDS
1	RUPPER
1	RUST
2	PXI
92	S
2	SADCLE
79	SAFETY
1	SATISFACTORY
6	SCALE
9	SCFEN
1	SCRENOPIVERS
2	SCREWS
1	SEALING
1	SEALS
4	SEAT
91	SEC
1	SECOND
2	SECONDARY
8	SECTION
8	SECURE
12	SECURING
1	SELECT
2	SELECTED
1	SELECTION
14	SELECTOR
1	SENDING
1	SEP
12	SEPPATE
4	SEQUENCE
1	SERIAL
5	SERIES
13	SERVICE
1	SERVICEABILITY
3	SERVICEABILITY
6	SERVICEABLE
19	SET
1	SETIDLE
3	SETS
2	SETTING
1	SETTINGS
1	SEVERAL

0.

2	SHACKLE
2	SHACKLES
2	SHIFT
7	SHAFTS
1	SHAPPLY
4	SHIELD
6	SHIFT
3	SHIFTER
4	SHIFTING
1	SHIFTEVER
1	SHIPMY
1	SHOCK
1	SHOE
6	SHOES
91	SHCF
1	SHCUD
1	SHCLOS
4	SHCLOD
1	SHCW
2	SHCING
1	SHCMY
8	SHPCUD
2	SHPCUDC
1	SHUTDCHN
2	SIDE
1	SIDES
1	SIGN
2	SIGNAL
2	SIGNATURE
91	SITUATION
1	STX
4	SIZE
2	SKILL
4	SLACK
1	SLAVE
2	SLEEVE
9	SLICE
5	SLING
3	SLINGS
1	SLOTTED
2	SLCH
3	SO
3	SOCKET
4	SOLES
4	SOLVENT

258

1	SOP
14	SPARK
1	SPECIAL
2	SPEED
3	SPEEDOMETER
2	SPINDLE
1	SPLINED
1	SPRINGS
19	SPRING
2	SPRINGS
1	SPOCKET
2	SPOCKETS
1	STAGE
1	STAND
3	STANDARD
174	STANDARDS
4	STANDS
2	STAR
6	START
4	STARTER
1	STARWHEEL
1	STATED
1	STAY
2	STEADY
1	STEEL
41	STEERING
1	STEERING
2	STEP
17	STEPS
1	STING
3	STICK
1	STONE
1	STCF
1	STCFLIGHT
3	STOPS
1	STORAGE
2	STORER
1	STORAGE
4	STRAINER
2	STRAP
1	STROKES
1	STUB
4	STUC
1	STUD-SHAFT
2	STUDS

STUDY PROGRAM/REFERENCE

1 SUCCEEDING
6 SUITABLE
9 SUPERVISOR

6 SUPPLY
9 SUPPORT
5 SURFACE
1 SUPGE
7 SWING

12 SWITCH
1 SWITCHES
26 SYSTEM
1 SYSTEMS
1 T

3 TABLE
9 TACHOMETER
2 TACHOMETER-DWELL
5 TAKEN
1 TAPPS

36 TANK
2 TANKS
1 TAP
1 TAPERED
13 TASK

1 TASKS
2 TB
1 TEAPS
2 TEC
8 TECHNICAL

3 TEMPERATURE
3 TERMINAL
1 TERMINALS
400 TEST
104 TESTED

1 TESTED
13 TESTER
1 TESTER THAT
4 TESTS
1 THAN

27 THFT
406 TME
2 THEM
1 THCP
2 THERE

2 THERMOSTAT

92 THESE

1 THES-TCN

3 THINER

5 THIS

1 THROUGHLY

13 THCS

1 THCTYL

1 THCLSAADTH

1 THREADED

3 THREE

12 THCTTLE

2 THROUGH

6 THOU

1 TIGHT

4 TIGHTEN

1 TIGHTEN-COUNTERCLOCKWISE

1 TIGHTLY

16 TIME

3 TIMED

1 TIMES

10 TIMING

3 TISE

2 TIRES

1 TITLE

1 TITLED

305 TA

5 T4'S

1 TMLF

2 T45-4910-402-12

1 TNG

399 TN

1 TOGETHER

1 TCLE

4 TCN

92 TCCL

5 TORLKIT

45 TCCLS

1 TCRTH

4 TCF

31 TOPCUE

1 TORQUEC

2 TCFSDIA

2 TCTAL

5 TCUCH

9 USE
 2 USED
 14 USING
 1 UTILIZE
 3 UTILITY
 53 UTILIZE
 22 UTILIZED
 1 UTILIZED
 8 VACUUM
 2 VALIDATE
 18 VALVE
 3 VALVES
 4 VARIOUS
 145 VEHICLE
 5 VEHICLES
 4 VENT
 4 VI
 1 VIBRATIONS
 5 VII
 20 VIII
 1 VISIBLE
 25 VOLTAGE
 7 VOLTMETER
 1 VOLTS
 2 W
 1 W/ADAPTER
 3 W/ADAPTERS
 15 W/II
 7 W/CREW
 3 W/CI
 1 W/CI-5
 1 W/CI-9
 2 W/C2
 1 W/CS
 2 W/ENGINE
 1 WANDERING
 1 WIS
 2 WASHERS
 11 WATER
 1 WATERPUMP
 1 WAY
 2 WEAR
 1 WEATHER
 1 WEA
 1 WEDGES

1	TOWARD
3	TRACK
3	TRACKED
4	TRACKS
2	TRACTOR
1	TRAINING
35	TRANSFER
46	TRANSMISSION
1	TRANSMISSION-TO-ENGINE
3	TRAVEL
2	TRAVEL-THEN
2	TRAVERSE
5	TRIP
1	TRICULESHOOT
117	TRUCK
1	TRULANICH
4	TS-352
7	TUFF
2	TUMES
2	TUNNELS
1	TURBOCHARGER
20	TURB
7	TURNING
1	TURNS
4	TUPTABLE
1	TURFET
3	TWC
1	U-ACLT
3	U-ACLT
2	U-CLAMP
5	U-JCINT
1	U-JCINTS
2	UNCCRAFTED
2	UNDER
6	UNIT
1	UNIVERSAL
1	UNFLUG
2	UNSCREW
2	UNSERVICABLE
20	UNTIL
1	UNUSUAL
1	UNUSUAL
5	UP
3	UPCP
4	UPPER

2 WELL
 1 WHIST
 2 WMC-250
 10 WHEEL
 12 WHEELER
 4 WHEELS
 2 WHEN
 2 WHERE
 9 WHICH
 1 WIDE
 174 WILL
 1 WILPESULT
 2 WINDSHIELD
 1 WIPEP
 1 WIPERS
 16 WIFE
 5 WIRING
 64 WITH
 3 WITHIN
 1 WITHOUT
 130 WITHOUT
 1 WOPK
 1 WCPM
 2 WCPN
 1 WRAP
 24 WPECKER
 22 WPECH
 3 X
 4 XI
 3 XII
 1 XIV
 2 XV
 1 XVI
 2 XX
 3 XXI
 2 XXII
 4 XXIII
 2 XXIV
 1 XXIX
 3 XXV
 4 XXVI
 6 XXXI
 1 VXXIV
 2 XXXIII
 1 XXXVI

2 YNKE
256 YDU
107 VJUR
4 ZEDC
2 ZEFCD
1 ZIPPERS

0.

WER045. END SORT PH
WER051 INSERT 1311, DELETE 1311
WER051 DATA RIAS = CO
WER051 TRK OVER-ALLCC FACTOR= PRIN/USED=031
WER051 RCT IN , CUT
WER051 TPF'S APPLIED 1234
WER051 END SYNCST OPT= 4, TPER0107,DUMP

000050001000015000200002500030000350040004500500055006000650070007500800085009000950100001050011000

PRG001 OUT=50,CON=1M21 FREQUENCY DISTRIBUTION

PRG002 CUT=001,CON=1 FREQUENCY/WIR0

PRG003 CUT=002,CON=1 FREQUENCY/WIR0

PRG004 CUT=003,CON=1 FREQUENCY/WIR0

PRG005 CUT=004,CON=1 FREQUENCY/WIR0

PRG006 CUT=005,CON=1

PRG007 CUT=006,CON=1,LEN=132

PRG008 IN=1,CUT=007,LEN=5

PRG009 IN=6,CUT=008,LEN=25

PRG010 IN=1,CUT=009,LEN=5

PRG011 IN=6,CUT=010,LEN=25

PRG012 IN=1,CUT=011,LEN=5

PRG013 IN=6,CUT=012,LEN=25

PRG014 IN=1,CUT=013,LEN=5

PRG015 IN=6,CUT=014,LEN=25

PRG016 IN=1,CUT=015,LEN=5

PRG017 IN=6,CUT=016,LEN=25

ENCODE 79 ENCODE 0 CONSTANTS 0 FULLWORDS 0 RETURN 0

UNACTU1 012 80122/800603 1921 FAST RETRIEVAL AND DATA MANIPULATOR

...05...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80...85...90...95...100...105...110...

JC NAME=TMER0107 STEP=NEWLIST STEP=

NAME=SYSPRINT UNIT=644
 NAME=SYSUT1 UNIT=342
 NAME=SYSUT2 UNIT=647
 NAME=SYSUT4 UNIT=605

NAME=PCRD.CNT
 NAME=SYS0155.T075939.SV00C.TM030107.F0001157
 SEE=UC3300
 SEP=

SVUT1 INP	1311	SVUT2 OUTP	327	SVUT3 OUTP	0	SVUT4 OUTP	0
LPCL	20	LPCL	133	LPCL	0	LPCL	0
PLKSIZE	6420	PLKSIZE	133	PLKSIZE	0	PLKSIZE	0

250

659 AND	406 THE	400 TEST	359 TC
749 IN	321 REMOVE	305 TM	286 MUST
771 A	266 YOU	247 PROCEDURES	242 CN
155 BE	154 WILL	128 OR	184 EQUIPMENT
181 PERFORMANCE	174 STANDARDS	145 VEHICLE	130 W/OUT
126 FROM	121 FOLLOW	117 TRUCK	114 PROPERLY
107 YOUR	104 NECESSARY	104 TESTED	102 DISCONNECT
100 INSTALLATION	93 CONDITIONS	92 FIELD	92 S
92 TOOL	51 FAILURE	91 SHOP	91 SITUATION
89 ABILITY	89 MEASURES	89 MEET	89 PROGRAM/REFERENCE
82 RESULT	87 STUDY	84 LISTED	88 RATING
87 ENVIRONMENT	87 OF	84 KIT	86 AC-CC
95 CHAP	95 ENGINE	85 SEC	82 GENERAL
82 MECHANICS	82 THESE	81 BY	79 SAFETY
77 ASSISTANCE	76 REPLACE	75 OPERATE	74 PUMP
70 INSTALL	69 TOOLS	67 CALSED	64 WITH
63 DEFECTS	61 ADJUSTMENT	60 FCR	60 T/PROPER
56 CONNECT	55 BELTS	54 POWERPACK	52 UTILIZE
50 FUEL	50 PERFUSION	46 M3A2	46 TRANSMISSION
43 ASSEMBLY	42 REVERSE	42 CRC	41 CYLINDER
41 STEERING	40 FOLLOWED	35 F4	35 MECH
36 BRAKE	36 TANK	34 USING	35 TRANSFER
34 ABOVE	34 LINES	30 APPLICABLE	32 MOUNTING
32 AIR	31 TORQUE	28 ELECTRICAL	30 REQUIRED
29 AT	29 AN	26 ADJUST	28 IF
27 ONE	27 THAT	25 BEEN	26 FILTER
26 W/9	26 SYSTEM	25 LERO	25 CARRIER
25 COLUMN	25 DRIVE	24 REMOVED	24 FCD
24 GENERATOR	24 M13A1	22 LINKAGE	22 ALL
24 W/ACKER	23 COMPONENTS	22 PENDING	22 UTILIZED
22 AFE	22 HAS	21 CABLE	21 CIRCUIT
22 W/ENCH	21 ARM	21 SHAFT	20 DETERMINE
21 GAGE	21 HYDRAULIC	20 TURN	20 LATIL
20 CATER	20 GEAR	19 P/AGE	19 SET
19 DA	19 EACH	18 HCSE	19 PLACE
19 SPRING	18 FRONT	17 VALVE	17 CORRECT
19 PRESSURE	18 PROPER	17 NEW	17 POSITION
17 JACK	17 M131	16 ADJUSTING	16 ASSISTANT
17 REMOVAL	17 STEPS	16 GROUND	16 MADE
16 BLOCK	16 DRAIN	14 WIPE	15 BRACKET
16 H/UNT	16 T/AC	15 HAVE	15 HELP
15 CLUTCH	15 EXHAUST	15 LEADS	15 LOUSEN
15 INJECTOR	15 INSURE	14 FAN	14 FERR
15 VOLTAGE	15 W/RTI	14 LEVER	14 LIFT
14 HEAD	14 ITEM	14 PLUG	14 FCST
14 METER	14 W520	14 SELECTOR	14 SPARK
13 F/CIATOR	14 REAP	13 ATTACH	13 BELTS
13 ACCELERATION	13 AS	13 MECH	13 FLARE
13 DAMAGE	13 DIFFERENTIAL	13 TACK	12 TESTER
12 POSITIVE	12 SERVICE		

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WORD FREQUENCY DISTRIBUTION

FREQUENCY/WORD

FREQUENCY/WORD

12	FACE	12	ADAPTER	12	ALIGN	12	REAG
12	COMPLETE	12	COMPLETED	12	GASKET	12	GRILLE
12	HOSES	12	11	12	LINE	12	WCTCP
12	NC	12	NUTS	12	POWER	12	SECURING
12	SEPARATE	12	SWITCH	12	THROTTLE	12	WHEELED
11	COOLING	11	EVALUATION	11	HANDICLS	11	IF
11	ITEMS	11	LOWER	11	MULTIMETER	11	NUMBER
11	OVERVIEW	11	PREPELLER	11	WATER	11	ATLF
10	PREPES	10	CLEAN	10	CLOTHING	10	CONTOCL
10	COVER	10	HUB	10	I	10	TOLE
10	INFORMATION	10	LVCT	10	NEGATIVE	10	RETURN
10	TIMING	10	VIII	10	WHEEL	10	ACCESS
9	LOCKING	9	ELEMENT	9	END	9	ESC
9	EVALUATE	9	MONITIZER	9	INTAKE	9	LIFTING
9	LIGHT	9	LC	9	LOAD	9	MICS
9	OFF	9	READINGS	9	RECORD	9	REPAIR
9	SCREW	9	SUPERVISOR	9	SUPPORT	9	TACHYMETER
9	USE	9	WHICH	9	AMMETER	9	BATTERY
9	CHECK	9	CLAMPS	8	DC	8	DEFECTIVE
9	INFORM	8	MATERIAL	8	MICRO	8	NEC
8	PARA	8	PERFORMED	8	POSITIONED	8	RAISE
8	RELEASE	8	ROTATE	8	SECTION	8	SECURE
8	SHOOW	8	SLIDE	8	TECHNICAL	8	VACUUM
7	APPLY	7	BLEED	7	CASQUETTOR	7	CONFESSION
7	DMELL	7	MAINTENANCE	7	PEAVY	7	LOW
7	M	7	PAPER	7	PIPES	7	NUT
7	OPEN	7	PRECAUTIONS	7	PESERVQIR	7	PLUGS
7	POINTER	7	SWING	7	TUBE	7	PCCER
7	SHAFTS	7	W/CREW	6	ALLOM	7	TURNING
6	WACK	6	WEAVING	6	PETWEEN	6	ANY
6	C	6	GRATER	6	CMCKE	6	BLACK
6	CONTROLS	6	CREW	6	FANS	6	CONNECTIONS
6	FRAME	6	PANDORAKE	6	HANDLE	6	FILL
6	IGNITION	6	INJECTORS	6	INPUT	6	IDENTIFY
6	LEVEL	6	LOCKOUT	6	NOTE	6	INSPECTION
6	PEOIL	6	POINTS	6	PED	6	CTFEC
6	REARWHEEL	6	SCALE	6	SERVICEABLE	6	PESISTANCE
6	SHES	6	START	6	SUITABLE	6	SHIFT
6	TPU	6	TON	6	UNIT	6	SUPPLY
5	ADJUSTED	5	BANK	5	BOLT	6	XXI
5	COMPRESSION	5	CONNECTION	5	D	5	CONVEAENT
5	GASSETS	5	HANNER	5	HULL	5	FORMS
5	INSTALLED	5	IT	5	ITS	5	INLET
5	MAKE	5	MASTER	5	MIXTURE	5	LOCKNUT
5	NET	5	OUT	5	OUTLET	5	MATE
5	PENCIL	5	POLL	5	RECOVERY	5	PARTS
5	SLING	5	SURFACE	5	TAKEN	5	SERIES
5	THIS	5	THICKIT	5	TOUCH	5	THIS
5	U-JOINT	5	UNDER	5	UP	5	TRIP
							VEHICLES

272

5 VII	5 WIRING	4 ARLE	4 AC
4 AFTER	4 ALIGNING	4 ASSIGNED	4 P
4 O/U	4 922	4 BINDING	4 BRACKETS
4 BREAKDOWN	4 CABLES	4 CAP	4 CASE
4 CHAMBER	4 CLOCKWISE	4 COUPLING	4 CYLINDERS
4 DECK	4 DISK	4 E	4 FLUID
4 FLYWHEEL	4 GEARBOX	4 GUARD	4 HCPA
4 INCHER	4 INDIVIDUAL	4 INSURING	4 INTC
4 JUMPER	4 KN/M	4 LOCATE	4 MAINTAIN
4 MANUAL	4 MARKED	4 MECHANICAL	4 MICROMETER
4 MICRO-SERIES	4 NOTCH	4 NSA	4 CRITAIN
4 DECHMTER	4 OLD	4 OPERATOR	4 PAN
4 PARKING	4 PINS	4 PIPE	4 PULL
4 PULLER	4 REPEAT	4 RPM	4 SEAT
4 SEQUENCE	4 SHIELD	4 SHIFTING	4 SHOULD
4 SIZE	4 SLACK	4 SOLVENT	4 STANES
4 STRAPER	4 STRAINER	4 STUD	4 TESTS
4 TIGHTEN	4 TOP	4 TRACKS	4 TC-152
4 TURNABLE	4 UPPER	4 VARIOUS	4 VEAT
4 VI	4 WHEELS	4 XI	4 AXIII
4 XRV	4 ZERO	3 1/2-TCH	3 1/4-TCH
3 ACCORDANCE	3 ALIGNED	3 ALTERNATOR	3 ARMS
3 BLANK	3 BLEEDER	3 BREATHER	3 BRING
3 CAN	3 CAN	3 CAPABILITY	3 CARBURET
3 CLEANER	3 CLEAR	3 CLEARANCE	3 CLOCE
3 CLOSED	3 CONSOLE	3 COCLANT	3 CORRECTLY
3 COUPLER	3 CROSS	3 CROSSOVER	3 DEFLECTION
3 DETENT	3 DISTRIBUTOR	3 CRUM	3 DECLEANING
3 DUCT	3 DUST	3 ENTRIES	3 EVALUATED
3 EXPECTED	3 FAULT	3 FIG	3 FILLER
3 FINAL	3 FIXTURE	3 FLGR	3 FLCH
3 FGF	3 FEE	3 FULLY	3 FUNCTION
3 G-CEC	3 HARDWARE	3 HOIST	3 FOLE
3 HOLDING	3 III	3 ILLUSTRATION	3 INCH
3 INDEX	3 LEVERS	3 INTERMEDIATE	3 IV
3 LEAVE	3 LOCK	3 LINK	3 LOCATION
3 LOCK	3 LOOSE	3 MANIFOLD	3 MARK
3 MEASURED	3 MICROMETERS	3 MOUNTED	3 MOUNTS
3 MISC	3 NEUTRAL	3 NO-G	3 ACAPAL
3 NOV	3 NUMBERS	3 C	3 CES
3 OPERATING	3 OUTPUT	3 PAC	3 FIN
3 PREPARING	3 PRESENT	3 POINARY	3 PROVIDED
3 PULLEY	3 PUSH	3 RECD	3 RELEASED
3 RESERVOIRS	3 RCAD	3 RODS	3 SERVICEABILITY
3 SETS	3 SHIFTER	3 SLINGS	3 SC
3 SOCKET	3 SPEEDOMETER	3 STANDARD	3 STOCK
3 STOP	3 TABLE	3 TEMPERATURE	3 TERMINAL
3 TRACK	3 TIMED	3 TIRE	3 TENSION
3 TRUCK	3 TRACKED	3 TRAVEL	3 TWC
3 U-POINTS	3 UTILITY	3 VALVES	3 W/ADAPTERS

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WORD FREQUENCY DISTRIBUTION

FREQUENCY/WORD

FREQUENCY/WORD

W/CI	2	WITHIN	3	X	2	AD	2	XTI	2
XXI	2	XXV	2	/BII	2	AD	2	AD	2
ADJUSTMENTS	2	AIP-HYDRAULIC	2	AIRCOMPRESSOR	2	ALIGN	2	ALIGN	2
APPEAL	2	APPLIED	2	APR	2	ARRIVE	2	ARRIVE	2
ARMY	2	ASSEMBLIES	2	AUTHORIZED	2	BASE	2	BASE	2
REFUSE	2	ASSEMBLY	2	BELT	2	BOAT	2	BOAT	2
BATH	2	BACKBAND	2	BULKHEAD	2	AVIATION	2	AVIATION	2
CASE	2	CARGO	2	CATEGORY	2	CHARGES	2	CHARGES	2
CHECKS	2	CLAMP	2	CLEARING	2	CLIPPING	2	CLIPPING	2
COIL	2	CONDITION	2	CONNECTED	2	CONTAINER	2	CONTAINER	2
CONTINUITY	2	COOLER	2	COTTER	2	COUNTERCLOCKWISE	2	COUNTERCLOCKWISE	2
COVERS	2	CRANE	2	CRANK	2	CURFEW	2	CURFEW	2
CUTOFF	2	CUTTING	2	DATES	2	DESIGN	2	DESIGN	2
DEVICE	2	DIESEL	2	DIRECTIONAL	2	DISCONNECTING	2	DISCONNECTING	2
DISTRIBUTION	2	CELLY	2	EDGES	2	ETHER	2	ETHER	2
ENDS	2	EXTENSION	2	FIVE	2	FOR	2	FOR	2
FINO	2	FIRE	2	FIVE	2	FOLLOWING	2	FOLLOWING	2
FOOT-POUND	2	FORWARD	2	FRON	2	FUNCTIONAL	2	FUNCTIONAL	2
GABRIELSON	2	GASOLINE	2	GO-50	2	GPIES	2	GPIES	2
GUN	2	HEADS	2	HIGH	2	HIGHEST	2	HIGHEST	2
HOLE	2	ILLITY	2	INSERT	2	INTERPRET	2	INTERPRET	2
ISSUE	2	IX	2	KITS	2	KNUCKLE	2	KNUCKLE	2
LESSONS	2	LINKAGES	2	MAINTAINING	2	MAFUNCTIONS	2	MAFUNCTIONS	2
MEASURE	2	MEASUREMENT	2	MINUTES	2	WACC	2	WACC	2
N	2	NAME	2	NATURAL	2	NEAREST	2	NEAREST	2
NEEDLE	2	NOOD	2	CATAINED	2	CPEATES	2	CPEATES	2
ORDER	2	ORGANIZATIONAL	2	OUTLINED	2	CVEP	2	CVEP	2
PART	2	PERFORMANCE MEASURES	2	PISTON	2	PITMAN	2	PITMAN	2
POST	2	POSITIONS	2	PREPARE	2	PRESCRIBED	2	PRESCRIBED	2
PROCEPKE	2	PSI	2	PUT	2	PAGE	2	PAGE	2
READS	2	REARVIEW	2	REFER	2	REFILL	2	REFILL	2
REGULATIONS	2	RECEIVED	2	RESISTOR	2	RESULTS	2	RESULTS	2
REFASHING	2	RHCOSTAT	2	FIGHT	2	PCOF	2	PCOF	2
RNI	2	SADDLE	2	SCREWS	2	SECONDARY	2	SECONDARY	2
SELECTED	2	SETTING	2	SHACKLE	2	SHACKLES	2	SHACKLES	2
SHOWING	2	SHROUDS	2	SIDE	2	SIGNAL	2	SIGNAL	2
SIGNATURE	2	SKILL	2	SLEEVE	2	SLIP	2	SLIP	2
SPIED	2	SPIRIT	2	SPEEING	2	SPOCKETS	2	SPOCKETS	2
STAP	2	STACY	2	STEP	2	STOPS	2	STOPS	2
STAPL	2	STUDS	2	TACHOMETER-OWELL	2	TANKS	2	TANKS	2
TE	2	TED	2	THEM	2	THERE	2	THERE	2
TERMOSTAT	2	THROUGH	2	TIPES	2	TW-4510-402-12	2	TW-4510-402-12	2
TOTAL	2	TRACTOR	2	TRAVERSE	2	TUNES	2	TUNES	2
TUNNELS	2	U-CLAMP	2	UNCONNECTED	2	UNSCREW	2	UNSCREW	2
UNDESIRABLE	2	USED	2	W	2	W/C2	2	W/C2	2
W/ENGINE	2	WASHERS	2	WEAR	2	WELL	2	WELL	2
WPC-250	2	WREN	2	WHERE	2	WINDSHIELD	2	WINDSHIELD	2
WCR	2	XV	2	XX	2	XXI	2	XXI	2
XXIV	2	XXIII	2	YAKE	2	Y	2	Y	2
+DC	1	/2-INCH	1	/2-INCH	1	2-LINE	1	2-LINE	1

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[illegible]

WORD FREQUENCY DISTRIBUTION
FREQUENCY/WORD

FREQUENCY/WORD

FREQUENCY/WORD

1 SHUTTER	1 SIGA	1 SIX
1 SLAVE	1 SOLES	1 SCF
1 SPECIAL	1 SPLINES	1 SPACKEY
1 STAGES	1 STARWHEEL	1 SPATED
1 STAY	1 STEERING	1 STING
1 STONE	1 STEPLIGHT	1 STORAGE
1 STOCKS	1 STUB	1 STUD-SHAFT
1 SUCCEEDING	1 SUOGE	1 SWITCHES
1 T	1 TAPMS	1 TAP
1 TASKS	1 TCARS	1 TERMINALS
1 TESTER	1 THAN	1 THEN
1 THINER	1 THROUGHLY	1 THCTTLE
1 THREADED	1 TIGHT	1 TIGHTEN-COUNTERCLOCKWISE
1 TIMES	1 TITLE	1 TITLED
1 TNG	1 TOGETHER	1 TOLC
1 TORQUED	1 TOWARD	1 TRAINING
1 TRAVEL-THEN	1 TPCURLESHOOT	1 TRUATION
1 TURNS	1 TUCKET	1 U-BOAT
1 UNIVERSAL	1 UPLUG	1 UNTILFEDAL
1 UPEN	1 UTILIZE	1 UPOLIZED
1 VIBRATIONS	1 VISIBLE	1 VCLTS
1 W/C1-5	1 W/C1-6	1 W/C5
1 WAS	1 WATERPUMP	1 WAY
1 WEB	1 WEDGES	1 WHAT
1 WILLRESULT	1 WIFER	1 WIPERS
1 WORK	1 WORKM	1 WRAF
1 XVI	1 XXIX	1 XXXII

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63 H
Skill 2

105 RECORDS

1,295 UNIQUE ITEMS

FREQUENCY DISTRIBUTION

17	*****
1	ENGINE
2	72-TON
24	A
1	A-FRAME
1	ASSISTANCE
1	ABILITY
1	ABILITY
1	ABLE
6	ACOVE
1	ARSPBERS
5	ACCESS
1	ACCESSORIES
1	ACCESSORY
4	ACCOMPLISHED
3	ACCORDANCE
3	ACTION
1	ACTAINS
2	ADAPTER
6	ADD
4	ADEQUATE
52	ADJUST
7	ADJUSTED
21	ADJUSTING
6	ADJUSTMENT
1	ADJUSTMENTS
1	AGAINST
1	AGREED
15	AIR
10	ALIGN
3	ALIGNED
1	ALIGNING
2	ALIGNMENT
1	ALIGNMENTS
1	ALIGNS
1	ALIGNMENT
78	ALL
6	ALLCH
1	ALTERNATELY
1	AL
2	AMMUNITION
2	AMOUNT
5	AN
1	ANCHORS
456	AND

72
110170

1	ANOTHER
2	ANY
1	APART
50	APPLICABLE
3	APPLIED
4	APPLY
1	APPROPRIATE
1	APPROXIMATELY
8	AP
1	ARCING
13	ARE
7	ARM
6	ARMS
2	AROUND
18	AS
3	ASSEMBLE
3	ASSEMBLED
2	ASSEMBLIES
36	ASSEMBLY
1	ASSESS
1	ASSESSMENT
1	ASSISTANT
50	ASSISTANCE
16	ASSISTANT
32	AT
7	ATTACH
1	AUG
1	AUTOMATIZED
6	AUTHORIZED
4	AUTOMATIC
4	AUTOMOTIVE
3	AVDS
1	AVERAGE
1	AVOID
2	AXIS
12	AXLE
7	AXLES
2	R
14	RACK
15	RACFLASH
2	RACKUP
1	RACKWARD
1	HALL
2	HALLJOINTS
2	RACES

6 BANK
 2 BARREL
 2 HIPS
 2 RACE
 2 RASED
 1 MATTEPIES
 1 BATTERY
 3 BATTLE
 2 RE
 16 BEMING
 18 DEAFINGS
 10 BEEN
 2 HING
 1 BELICRANK
 3 BELCH
 1 BELTS
 10 BENT
 11 BETWEEN
 7 BEVEL
 2 BEYOND
 1 BLACK
 2 BLADES
 12 BLOCY
 1 BUCKING
 3 BLOCKS
 4 BLOWER
 1 BLUE
 3 BODY
 20 BELTS
 9 BCCY
 1 BOOT
 1 BCCTS
 7 BONE
 8 BOSH
 1 BATTLE
 2 BOTTOM
 1 ACTIONS
 3 ACOUSE
 7 BOX
 1 BRACKET
 2 BRACKETS
 14 BRAKE
 2 BRAKEDFUM
 4 BRAKES
 3 BRAKING

1	BREKAGE
1	BREECH
1	BRIDGE
3	BRING
27	BROKEN
1	BURLES
4	BUFFER
1	BUTIQUE
1	BUMPER
1	BURNED
8	BURS
3	RUSHING
5	RUSHING
3	WUT
1	BUTTON
49	BY
1	BYPASS
3	C
6	CABLE
1	CAGE
1	CAP
1	CAMP
9	CAUSHAFT
1	CANARY
3	CAP
2	CAPABILITY
2	CARBON
9	CARRIE
3	CAPRIERS
2	CASE
1	CASTER
26	CAUSE
35	CAUSED
1	CASE
2	CO-850
6	CENTER
1	CHAINS
1	CHAMBER
1	CHANGE
55	CHAP
1	CHOP
1	CHASSIS
2	CHATTERING
1	CHATTERS
12	CHECK

3	CHECKING
1	CHECKPOINT
1	CIRCLE
1	CLAMP
1	CLAPPING
3	CLAPS
2	CLASH
3	CLASSE COM
9	CLASH
2	CLEANER
2	CLEAR
2	CLEARANCE
4	CLEVIS
1	CLIPS
3	CLOCKWISE
2	CLOSE
5	CLOSED
1	CLOTH
15	CLUTCH
1	CCAT
4	CCJUN
1	CCFAT
2	CCME
6	CCMON
5	CCMPS
2	COMPARING
1	COMPARIMENT
4	COMPLETE
1	COMPLETED
4	COMPLIANCE
1	COMPONENT
41	COMPONENTS
2	COMPOSITION
2	COMPRESSOR
2	COMPRESSORS
23	CONDITION
1	CONDITION/SERVICEABILITY
82	CONDITIONS
1	CONJUNCTION
9	CONNECT
1	CONNECTION
8	CONNECTIONS
1	CONNECTOR
2	CONNECTORS
1	CONSOLE

1	CONSUMPTION
12	CONTACT
1	CONTAINED
2	CONTAINER
1	CONTAMINATE
2	CONTINUES
1	CONTINUITY
10	CONTROL
4	CONVERTER
1	COCL
1	COCLER
1	COCLERS
10	COCLING
10	COPECT
5	CORRECTLY
1	COTTER
1	COUNTERWEIGHT
1	COUPLER
1	COUPLINGS
14	COVER
11	COVERS
5	CRACKED
5	CRACKS
3	CRANE
1	CRANK
1	CRAWLING
1	CRANK
15	CRANKSHAFT
2	CREEPS
2	CREA
1	CRIMPED
2	CUMMINS
1	CURRENT
1	CUT
1	CV
1	CYCLE
32	CYLINDER
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 1 DICO
 2 DCT
 2 DCWA
 4 DRAG
 1 DRAGLINK
 2 DRAGS
 2 DRIVEN
 10 DRIVE

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1	DRCP
7	DRUP
1	DRUMS
2	DRY
1	DUST
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1 PACKINGS

2 PAD

2 PAGE

2 PAINT

4 PAN

1 PAN

1 PANEL

2 PAPER

1 PARA

2 PART

1 PARTIALLY

2 PARTICULATE

7 PAVIS

1 PASS

1 PATTERN

8 PEDDL

AD-A121 880

JOB LANGUAGE PERFORMANCE REQUIREMENTS FOR MOS 63H
AUTOMOTIVE REPAIRMAN RE. (U) DEFENSE LANGUAGE INST
LACKLAND AFB TX ENGLISH LANGUAGE CENTER. 22 MAY 76

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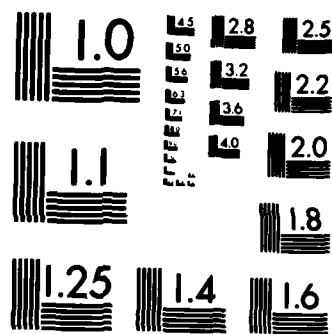
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END

FORMED

DTIC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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1 PEP
1 PEPFOR ICCMEASUALS
36 PERFORM

162 PERFORMANCE
7 PERFORMED
3 PERIODS
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2 PIECE

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7 PINION
10 PINS
2 PINTCH
2 PIPE

11 PISTON
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3 PITMAN
2 PITTED

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8 PLATE
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1	RIVETS

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8 RCD

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 1 STILL
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2 TOC
37 TOCL
90 TOCLS

5 TCETH
2 TOP
5 TORN
13 TORQUE
1 TORCUING

2 TCPSIGN
1 TCAL
3 TOUCHES
2 TCH
2 TOWARD

2 TRACY
9 TRACKED
3 TRACKS
1 TRACTOP
1 TRACTORS

1 TRAILER
2 TRAIN
2 TRANSFER
27 TRANSMISSION
1 TRANSMISSIONS

2 TRAVEL
1 TREADS
1 TRCLALE
24 TRCUBLESNOOT
2 TRCUBLESNOOT PIG

282

1 TROUGH
 12 TRUCK
 3 TRUCKS
 2 TQUANNICN
 9 TUBE
 2 TURPOCHARGER
 1 TUSP
 5 TUPA
 9 TURNING
 4 TURN
 2 TURNTABLE
 3 TWC-SPCOL
 2 TYPE
 4 TYPES
 1 U-ECCTS
 2 U-JCINTS
 3 UNCES
 1 UNEVEN
 4 UNIT
 4 UNITS
 4 UNLCADING
 1 UNSEVICEABLE
 26 UNTIL
 1 UNTILTY
 8 UNUSUAL
 2 UP
 1 UPPER
 2 URGENT
 7 USACCS
 6 USE
 2 USFO
 8 USING
 1 UTILITY
 42 UTILIZE
 34 UTILIZED
 1 UTILZE
 2 V
 1 V-FAC-JR-IGN
 45 VALVE
 24 VALVES
 2 VANES
 14 VIFIGUS
 1 VADY
 1 VECHICLP
 109 VEHICLE

12	VEHICLES
2	VENT
3	VENTILATED
1	VENTILATION
1	VENTS
5	VI
2	VIOPATION
2	VII
1	VIII
2	VISE
1	VISIBLE
1	VISUALLY
1	W
0	W/RII
1	W/CAMSHAFT
1	W/CRANKSHAFT
1	W/CJ
1	W/HEA
1	W/STIMULATED
1	W/UNIT
1	WALLS
1	WANDERS
1	WAPW
1	WARNING
3	WARPAGE
1	WASHERS
2	WEAK
11	WEAR
1	WELCS
2	WELL-LIGHTED
1	WEPE
1	WHC-250
24	WHEEL
75	WHEELS
8	WHEELS
19	WHEN
1	WHICH
3	WHILE
2	WHITE
1	WIDTH
2	WILI
275	WILL
12	WINCH
1	WINCHES
1	WIPER

0.

1	WIRE
2	WIPES
1	WIRING
49	WITH
3	WITHIN
99	WITHOUT
5	WOM
2	WOOD
2	WORK
20	WCRN
1	WRAP
11	WRECKER
8	WREACH
3	X
1	XI
2	XIII
1	XIV
1	XIX
1	X4667E
3	X4667E1
1	XV
2	XVI
1	XVIII
1	XX
2	XXI
1	XXII
2	XXIII
2	XXIX
1	XXV
5	XXXIII
1	Y
2	YCKE
250	YOU
4	YOUR
5	ZERO

285

NR0451 END SCRT PH
NR0551 INSERT 1295, DELETE 1295
NR1371 DATA RIAS = 00
NR1381 TSK OVER-ALLOCC FACTOR- P01M/USED=031
NR0541 END IN , OUT
NR0491 TPF'S APPLIED 1234
NR0521 END SYNCSCRT OPT= M. TWER0207.DUMP

UNIT-609 HISSA=307VJ3

1

535

SYSDT1 INPUT	1255	SYSDT2 OUTPUT	323	SYSDT3 OUTPUT	0	SYSDT4 OUTPUT
INCL	30	LRECL	153	LRECL	0	LRECL
BLKSIZE	6400	9LKSIZE	123	BLKSIZE	0	BLKSIZE

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201 THE	456 AND	366 TO	359 IN
240 TEST	329 TM	276 ON	375 WILL
250 YOU	241 A	216 RE	216 MUST
260 VEHICLE	263 OF	172 EQUIPMENT	271 CR
104 PROCEDURES	161 PERFORMANCE	160 STANDARDS	111 ENGINE
100 DEFECTS	59 WITHOUT	59 DETERMINE	90 PERFECTLY
97 ON	97 FROM	87 PERFORM	87 TOOL
96 FOLLOW	82 S	82 CONDITIONS	92 FAILURE
97 NECESSARY	82 TESTED	81 YOUR	90 ANILITY
80 MEASURES	80 MEET	80 RESULT	80 STUDY
80 TOOLS	79 FORM	79 KIT	79 PROGRAM/REFERENCE
75 SHOP	75 SITUATION	79 THESE	78 ALL
77 RATING	79 SAFETY	77 *****	77 GENERAL
77 LISTED	76 MECHANICS	76 CFC	75 ENVIRONMENT
74 SYSTEM	69 FIELD	66 F4	62 REPLACE
60 EQUIPMENT	61 COMPONENTS	50 ASSISTANCE	55 CLAP
59 ADJUST	58 APPLICABLE	53 REQUIRED	52 SERVICEABILITY
51 ME-GA	51 SEC	49 BY	49 WITH
47 INSTALLATION	45 OPERATE	45 VALVE	44 PRESSURE
42 REPAIR	42 UTILIZE	40 FOLLOWING	38 CAUSE
36 IMPROPER	38 GAGE	37 HYDRAULIC	37 IDENTIFY
36 ASSEMBLY	36 PERFORM	35 GEAR	35 WHEEL
24 FOLLOWED	24 INFORMATION	34 UTILIZED	23 FOR
22 TANK	22 AT	32 CYLINDER	22 RESERVOIR
22 SCREW	21 ADJUSTING	31 INSTALL	20 IS
20 USED	20 ONE	30 STEERING	29 MEAN
29 TIPS	29 INSPECT	28 NOT	27 PROVEN
17 TRANSMISSION	26 CAUSE	26 FUEL	26 PUMP
24 UNTIL	25 MALFUNCTIONS	24 PROPER	24 SPRING
24 TRANSLATION	24 VALVES	23 ARE	23 CONDITION
23 FORLIFT	23 HELPER	23 IF	23 INDICATOR
22 MEASURE	21 LESSON	21 TEC	20 PILTS
20 WORK	19 BEAT	19 FT	19 WHEN
18 AS	18 BEARINGS	17 MONTZER	17 IT
17 WAGE	17 PLACE	17 POSITION	17 SPEED
16 ASSISTANT	16 BEARING	16 LEAKS	16 MISSING
16 ROTATE	16 SHOULD	15 AIR	15 PICKLASH
13 CLUTCH	15 CRANKSHAFT	15 DIAL	15 END
13 ITEMS	15 LOCKNUT	15 START	15 TIME
13 TURN	14 BACK	14 BRAKE	14 CYCLE
14 DISCONNECT	14 LINKAGE	14 MAIN	14 TIMING
14 VERTICIS	14 WHEEL	13 DEFECTIVE	13 EACH
13 EXCESSIVE	13 NOISE	12 CREATION	12 OUT
13 PGC	12 SET	12 TORQUE	12 AXLE
12 HUCK	12 CHECK	12 CONTACT	12 TACH
12 LEVER	12 LINES	12 MEASURE	12 CIL
12 REAR	12 RECOVERY	12 SUSPENSION	12 TRUCK
12 VEHICLES	12 WINCH	11 RETAIN	11 COVERS
11 CYLINDERS	11 GEARS	11 HCU	11 TATURE
11 LOOSE	11 MARK	11 MD	11 PISTON

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WORD FREQUENCY DISTRIBUTION
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FREQUENCY/WORD

11	PC	11	RACK	11	READING	11	REMOVED
11	REVERSE	11	SPARKS	11	SYSTEMS	11	WEAR
11	WRECKER	10	ALIGN	10	BEEN	10	CONTACT
10	COILING	10	CORRECT	10	DRIVE	10	II
10	INJECTOR	10	LOOSEH	10	CONTAINED	10	PIAC
10	FEELER	10	RPM	10	SAME	10	SEALS
9	SIZE	9	AN	9	DUSHLAS	9	CANSHAFT
9	CARTER	9	CLCAN	9	CONNECT	9	CANSHED
9	EXHAUST	9	FEELER	9	GOVERNOR	9	FEATER
9	INTAKE	9	LOW	9	MWC	9	CHEATING
9	SPINDS	9	STEPS	9	THAN	9	TIGHTEN
9	TEARDED	9	TORNING	9	RCOM	9	RYT
8	BRACK	8	MURS	8	CAP	8	CONNECTIONS
8	D-4000	8	DIFFERENTIAL	8	ELECTRICAL	8	FAILS
8	GAP	8	ITI	8	INSTALLED	8	LEAKING
8	LOCK	8	METAL	8	NUT	8	OFF
8	CUTPUT	8	PECAL	8	PIA	8	PLATE
8	PUSH	8	RODS	8	SHIFT	8	SWITCH
8	THAT	8	THRU	8	TIGHT	8	TUNE
8	UNUSUAL	8	USING	8	W/OII	8	WHEELS
7	WRENCH	7	ADJUSTED	7	ARP	7	ATTACH
7	NOVEL	7	BORE	7	RCX	7	CRUP
7	FFFF	7	MAS	7	IDLE	7	LEFT
7	LYNE	7	MARKS	7	MCE	7	MCJAY
7	W/LIFTING	7	M916	7	MRE	7	CUTUP
7	PARTS	7	PERFORMED	7	PINION	7	PLAYES
7	POWERPACK	7	READINGS	7	ROAD	7	SECTION
7	SPACERS	7	STANDARD	7	STEP	7	TECH
7	YES-IV	6	ACOVE	6	ADC	6	ALLOM
6	AR	6	ARMS	6	AUTHORIZED	6	RANK
6	CABLE	6	CENTER	6	CCMPCH	6	CRACKS
6	DISASSEMBLED	6	FOOT-POUNDS	6	FRUIT	6	FULL
6	HAVE	6	HIGH	6	IV	6	LEVEL
6	LIGHT	6	MAGNETO	6	M578	6	NORMAL
6	ONSERVE	6	PLUG	6	PULLED	6	REPAIRS
6	PICIN	6	SETS	6	SHAFT	6	SHIFTING
6	STOP	6	SURFACE	6	TESTS	6	USE
5	ACCESS	5	CLAMPS	5	CLOSED	5	COMPARE
5	CORRECTLY	5	CRACKED	5	DECK	5	ENGINES
5	FLYNNERL	5	GASKETS	5	GROUND	5	HEAD
5	MCE	5	MOSES	5	LEAD	5	LIFT
5	LIFTING	5	MACHETOS	5	MAKE	5	MCYCP
5	NICKS	5	OPERATIONAL	5	CREPCSITE	5	OVERHEATING
5	PLAY	5	POINT	5	PULL	5	RACKS
5	RANGE	5	RECORD	5	ROCKER	5	SEAL
5	SEQUENCE	5	SHPCUD	5	SLIGHT	5	SPECIAL
5	SLITABIE	5	SWITCHES	5	THREADS	5	THRITTLE
5	TOOTH	5	TORN	5	VI	5	WCM
5	XXATE	5	ZERO	4	ACCOMPLISHED	4	APPLY
4	AUTOMATIC	4	AUTOMATIC	4	PLCNER	4	BUFFED

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4	CLEVIS	4	COLUMN	4	COMPLETE	4	COMPLIANCE
4	CONVERTER	4	DESCRIBE	4	DEVICE	4	CRAG
4	ENTRIES	4	EQUAL	4	EVALUATION	4	FANS
4	FLUID	4	FOUR	4	FREELY	4	HOLDINGS
4	HUJSTAG	4	INSERT	4	LENGTH	4	LIGHTS
4	LIMITS	4	LCAC	4	LCRF	4	LOCKOUT
4	HALFUNCTION	4	MODIFICATION	4	MOUNTED	4	MOUNTS
4	MULTIMETER	4	NEUTRAL	4	NEW	4	OTHER
4	P14	4	PERSONNEL	4	POINTS	4	RANGES
4	REACH	4	RECHECK	4	RELIEF	4	SCALE
4	SCATCHES	4	SELECTOR	4	SLEEVE	4	SLIPPING
4	CRATING	4	SUPPORT	4	SURFACES	4	TAG
4	TEMPERATURE	4	TESTER	4	THEN	4	THROUGH
4	TURNS	4	TYPES	4	UNIT	4	UNITS
4	UNLOADING	3	ACCORDANCE	3	ACTION	3	ALIGNED
3	ANY	3	APPLIED	3	ASSEMBLED	3	AVDS
3	HAPS	3	BATTLE	3	BELOW	3	BLOCKS
3	ACDY	3	ACCUSE	3	BRACING	3	BRIAG
3	BUZING	3	BUT	3	C	3	CARRIERS
3	CHECKING	3	CLASSROOM	3	CLOCKWISE	3	COMPRESSION
3	CRANE	3	D	3	DECISIONS	3	DIAPETER
3	DIRECTION	3	DISTORTED	3	DRIVEN	3	ENDS
3	ENVIRONMENT	3	FACE	3	FAN	3	FILTERS
3	FIT	3	FIXTURE	3	FLANGE	3	FLCM
3	FOPUS	3	GAGES	3	HOIST	3	HENLIZERS
3	IDENTIFIED	3	IDLER	3	INSTRUCTIONS	3	INSULING
3	JLJY	3	LEVERS	3	LINKS	3	LUBEC
3	MAINTAIN	3	MAXIMUM	3	MECHANICAL	3	M2542
3	AC-LOAD	3	NUMBER	3	OPEN	3	CREATES
3	BUNCES	3	OVER	3	OVERHEATS	3	PIECER
3	PENCIL	3	PERIODS	3	PITMAN	3	POUNDS
3	PROPELLER	3	PULLS	3	PUMPS	3	RAISE
3	READ	3	REINSTALL	3	RELEASE	3	REPAIR/EVACUATION
3	REPEAT	3	RESERVOIR	3	RETAINER	3	RINGS
3	POTATING	3	RUN	3	RUNNING	3	RUNE
3	SCAFFED	3	SCOLD	3	SCREWS	3	SEATS
3	SENDING	3	SEVERAL	3	SHOCKS	3	SKIEP
3	SO	3	STOPS	3	STRAIGHTEDGE	3	STPCKE
3	SWING	3	TAKEN	3	TANKS	3	TASKS
3	THEY	3	THICKNESS	3	TIE	3	TYPES
3	TOUCHES	3	TRACKS	3	TRUCKS	3	TWC-SPOOL
3	UNJER	3	VENTILATED	3	WAPPAGE	3	WELL-LIGHTED
3	WHLF	3	WITHIN	3	X	3	WELCTEY
2	72-TEN	2	ADAPTER	2	ALIGNMENT	2	AMPLATION
2	AMOUNT	2	ARCUND	2	ASSEMBLIES	2	AXIS
2	A	2	BACKUP	2	BALLJCIATS	2	BANDS
2	BARREL	2	BAGE	2	BEING	2	REVCAD
2	PLACES	2	BOTTOM	2	PACKETS	2	PRANCDRUM
2	CAMER	2	CAPABILITY	2	CAPUCH	2	CASE
2	CL-EPD	2	CHATTERING	2	CLASH	2	CLEANER

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2	CLEAR	2	CLEARANCE	2	CLCSE	2	CONE
2	CLEARING	2	COMPRESSOR	2	COMPRESSIONS	2	CONNECTORS
2	CONTAINER	2	CONTINUES	2	CREEPS	2	CREP
2	CUMING	2	DEMANDED	2	DEMANDS	2	DEPRESSED
2	DEFECTS	2	DISASSEMBLY	2	DISCENSAGE	2	DRES
2	ONLY	2	DCHA	2	DP/GS	2	DRAPED
2	ONLY	2	EFFECTS	2	ENTERED	2	EVALUATE
2	EXCESSIVELY	2	FIFTH	2	FIGURE	2	FITTINGS
2	FLAT	2	G'S	2	GASKET	2	GENERATOR
2	GUIDE	2	GUIDES	2	HANDLE	2	HANGERS
2	HARD	2	HEATERS	2	HEAVY	2	HELICAL
2	HOLES	2	I	2	INDICATORS	2	INJECTORS
2	INLET	2	INPUT	2	INSPECTION	2	INSTRUCTIONS
2	INSUFFICIENT	2	INTO	2	ISCLATE	2	ISOLATED
2	ITEM	2	ITS	2	IX	2	JAPNUY
2	LATER	2	LOS	2	LEAKAGE	2	LENS
2	LOCKS	2	LOWER	2	MACH	2	MAYER
2	MATING	2	MEASURED	2	METNODS	2	MINUTE
2	WIDE	2	MOVE	2	MOVEMENT	2	MUFFLER
2	WIDE	2	W60A2	2	MCCS-SERIES	2	A
2	WIDE	2	NOISY	2	MCNE	2	NTCP
2	NUTS	2	OBTAIN	2	ORDEPS	2	CPD42
2	OUTLINED	2	CUTSIDE	2	PAC	2	PAGE
2	PAINT	2	PART	2	PARTICULATE	2	PAGE
2	PISTON	2	PIPE	2	PITTED	2	PLAIN
2	PLUNGER	2	PLUNGERS	2	PCINTER	2	PCUAC
2	PRELOAD	2	PRESSURIZE	2	PPROGRAMS/PREFERENCE	2	PUBLICATIONS
2	PURGE	2	REACHES	2	REACJUSTED	2	REGISTER
2	WEPICK	2	RESTING	2	RETURN	2	ROUGH
2	SCISS	2	SCRES	2	SCFING	2	SCOLIE
2	SCUPE	2	SELECT	2	SERVICEABLE	2	SETTING
2	SHACKLES	2	SHAFTS	2	SHEAVES	2	SHELL
2	SHORT	2	SHUT	2	SING	2	SHELL
2	SLOW	2	SLOWLY	2	SMCCTH	2	SLIPPAGE
2	STALL	2	STARTER	2	STARTS	2	STATE
2	STEW	2	STRIPPED	2	STUDS	2	SYNCHRONIZE
2	TAKEDOFF	2	TENSIONER	2	TESED	2	THEIR
2	THROUGHLY	2	THREE	2	TIMES	2	TIRE
2	TCC	2	TCP	2	TORSON	2	TCH
2	TOWARD	2	TPACK	2	TRAIN	2	TRAMSEEP
2	TRAVEL	2	TURBULESHOOTING	2	TRUANTCN	2	TURBCHARGER
2	TURNTABLE	2	TYPE	2	U-JOINTS	2	UP
2	URGENT	2	USED	2	V	2	VANS
2	VENT	2	VIBRATION	2	VII	2	VISE
2	WEAK	2	WHITE	2	WILL	2	WIPES
2	WCCO	2	WORK	2	XIII	2	XVI
2	XXI	2	XXIII	2	XXIX	2	YCKE
1	/ENGINE	1	A-FRAME	1	ASSISTANCE	1	ABILITY
1	ABLE	1	APSCRBERS	1	ACCESSORIES	1	ACCESSORY
1	ACTIONS	1	ADEQUATE	1	ADJUSTMENTS	1	AGAINST

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1 JACK	1 JOB	1 JOINT	1 JUMPING
1 JUMPS	1 KEEPERS	1 KINKED	1 KNOCKING
1 KNUCKLE	1 L/4-TON	1 LACK	1 LASH
1 LEADS	1 LEAF	1 LEAVES	1 LEARNING
1 LESS	1 LET	1 LEVELS	1 LIGHTING
1 LIMITED	1 LINING	1 LISTING	1 LL
1 LINSURE	1 LOCKING	1 LOGICAL	1 LPPK
1 LOWEST	1 LUB	1 LUBE	1 LUNSTANT
1 LVCT	1 MFUNCTIONS	1 MAINTENANCE	1 MALFUNCTIONING
1 MATIFOLD	1 MANNER	1 MANUAL	1 MANUALLY
1 MATERIAL	1 MAY	1 MEASUREMENT	1 MECHANICS'S
1 MELC	1 MEMBER	1 MICROVETER	1 MISTYLE
1 MODIFICATIONS	1 MENTHC	1 MOTION	1 MCVPR
1 MULTIFUEL	1 MES-SERIES	1 M916	1 MRCSS-TON
1 NEAREST	1 NEARLY	1 NEEDLE	1 NEGATIVE
1 NHC	1 NCPENCLATURE	1 NEARLY IDENT	1 NONNALLY
1 NUCSE	1 NOTE	1 NOZZLES	1 NSA
1 NUMBERS	1 OCEDURES	1 OOCR	1 OFFLOCKNUT
1 OFITENS	1 OLD	1 ONCTIONS	1 OPERATING
1 OPERATIONAL	1 OPERATED	1 OPTIC	1 CRPAC
1 OFLOWER	1 OSCILLATING	1 OUTLET	1 OVERSIZE
1 PACK	1 PACKINGS	1 PAN	1 PANEL
1 PPA	1 PARTIALLY	1 PASS	1 PARTERN
1 PENDANT	1 PER	1 PERFOR ICE MEASURES	1 PISTONS
1 PITCCK	1 PIVOT	1 PLL	1 PCI
1 PROPERTS	1 POSITIVE	1 POSSIBLE	1 PREPERFORMED
1 PRESSURE-2	1 PRESSURES	1 PREVENT	1 PRIORITY
1 PROBABILITY	1 PROCEEDURE	1 PUBLISHED	1 PULLEYS
1 PULLIN	1 PULLING	1 QUANTITY	1 QUARTERLY
1 REAFFETING	1 REGULATOR	1 RELEASES	1 RECOVERING
1 REPAIRED	1 REPLACEMENT	1 REQUESTING	1 REQUIREMENTS
1 REQUIRE	1 RESET	1 RESISTANCE	1 RESOURCES
1 RESTRICTED	1 RESTS	1 RETAP	1 RETRACT
1 RETURNING	1 RESULT	1 RICE	1 RIDES
1 RING	1 RIVET	1 RIVETS	1 RIDE
1 ROLLER	1 ROLLERS	1 ROT	1 RATCHWHEELS
1 RUBBER	1 RUNOUT	1 SCAVENGER	1 RATCHER
1 SEAT	1 SEATING	1 SECONDS	1 SCRAMCIVER
1 SEE	1 SEVICABILITY	1 SERVICE	1 SECURING
1 SETTINGS	1 SEVERE	1 SHIELD	1 SERVICEABILITY
1 SHAWNY	1 SHOCK	1 SHES	1 SHYTER
1 SHARDS	1 SHOULDER	1 SHOWN	1 SHAPPING
1 SHUTOFF	1 SIDE-6L-INT-CLOSED	1 SIMULATED	1 SHAPCUCS
1 SLACK	1 SLEEVES	1 SLIDE	1 SHIC
1 SLIPS	1 SLUGGISH	1 SMALL	1 SLIPPING
1 SMOKE	1 SHAP	1 SNUG	1 SNCF
1 SCCA	1 SPACER	1 SPEEDLEVER	1 SOLIDLY
1 SPINDLE	1 SPIRING	1 SPLINES	1 SPECIAL
1 SPICLS	1 SPRAY	1 SPACNETS	1 SOCRNG
1 SOUPALING	1 ST	1 STANDARDS	1 SOCEAL
			1 STAPES

1	STAY	1	STEADY	1	STEER
1	STILL	1	STORAGE	1	STRAIGHT
1	STRAP	1	STUC	1	SUDDENLY
1	SUPPLY	1	STUC	1	SYSTEMS
1	TAKE	1	TAPPING	1	TE
1	TEE	1	TEMPERATURE	1	TEA
1	TESTSTANDARDS	1	THEROS	1	THREAD
1	THROTTLING	1	THEROS	1	THROUST
1	TIP	1	THEROS	1	TONE
1	TROUING	1	TOTAL	1	TRACER
1	TRAILER	1	TRANSMISSIONS	1	TRACER
1	TROUGH	1	TUP	1	TRACER
1	UNSERVICEABLE	1	UTILITY	1	U-ACLS
1	UTILITY	1	UTILE	1	UPPER
1	VEHICLE	1	VENTILATION	1	V-ING-IR-IGN
1	VISIBLE	1	VISUALLY	1	VEAS
1	W/CRANKSHAFT	1	W/CL	1	W
1	W/UNIT	1	WALLS	1	W/SEA
1	WANNING	1	WASHERS	1	WANNERS
1	WHC-250	1	WITCH	1	WELDS
1	WIPER	1	WIRE	1	WIDYH
1	XI	1	XIV	1	WIPING
1	XV	1	XVIII	1	XIX
1		1		1	XX

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APPENDIX 8

ENGLISH LANGUAGE STRUCTURES AND LEXICON

The following list is included as an addition to the structural and lexical list. These structures and lexical items are very basic.

(See Section II for discussion.)

LIST OF LEXICAL AND STRUCTURAL ITEMS FOR ENGLISH LANGUAGE STRUCTURES

Sentences:

A. Declarative	statement
B. Interrogative	question
	1. wh- questions
	2. tag questions
	3. yes/no questions
C. Imperative	command, polite request
D. Exclamatory	exclamation

Sentence Complexity:

A. Simple	one full subject and predicate
B. Compound	two or more independent clauses joined by:
	1. punctuation
	2. punctuation and conjunctive adverb
	3. coordinate conjunction
C. Complex	one or more dependent clauses and an independent clause
D. Compound-Complex	two or more independent clauses and one or more dependent clauses

Verbs:

A. Concord	subject-verb agreement
B. Transitive	takes an object
C. Intransitive	doesn't take an object
D. Copula	to be
E. Linking	connectors
F. Auxiliaries of tense	will, do, did
G. Auxiliaries of modality	should, ought to, must to, have to, have got to, able to, can, may, might, could, would
H. Tense	present, past
I. Aspect	perfect, progressive

Verbal Forms:

A. Present Participle	active voice
B. Past Participle	passive voice

Voice:

A. Active	subject does action
B. Passive	subject does not do action
	1. agent expressed
	2. agent not expressed

Nouns:

A. Singular	man, pen
B. Plural	men, pens
C. Count	chairs
D. Mass	flour
E. Possessive	soldier's
F. Collective	fish

Adjectives:

A. Predicative	The tank is green.
B. Attributive	The green tank is moving.
C. Degrees of comparison	
1. regular	big, bigger
2. irregular	worse, worst
D. Ordinal/Cardinal Numbers	first, one

Adverbs:

A. Time/Frequency	immediately, today, ago
B. Place/Position	here, there, everywhere
C. Manner	maybe, possibly
D. Negative	no, never
E. Comparison of	nearest, harder
F. Degree	thoroughly, completely

Articles:

A. Definite	a, the
B. Indefinite	any, some

Pronouns:

A. Personal	you
B. Demonstrative	that
C. Indefinite	anybody, both, each
D. Reflexive	himself, yourself
E. Cases of	I, me, my, mine
F. Relative	who, whom, whose
G. Interrogative	who, which, what

Conjunctions:

A. Coordinating	and, but, or, nor
B. Subordinating	because, if, as, that, after
C. Correlative	either, or
D. Conjunctive adverb	therefore, furthermore

Prepositions:

A. Simple:

1. place
2. time
3. direction/motion
4. manner/agent/
instrument
5. measurement/
number amount

on, in
in, at, on
to

by, with

of

B. Compound:

according to, because of, by means

Vocabulary:

words from 1100 through 2400 -
Elementary and Intermediate Phase of General
English materials

Special Expressions/Idioms

"knock it off" "can it, buddy"

Verb Combinations

two word verbs