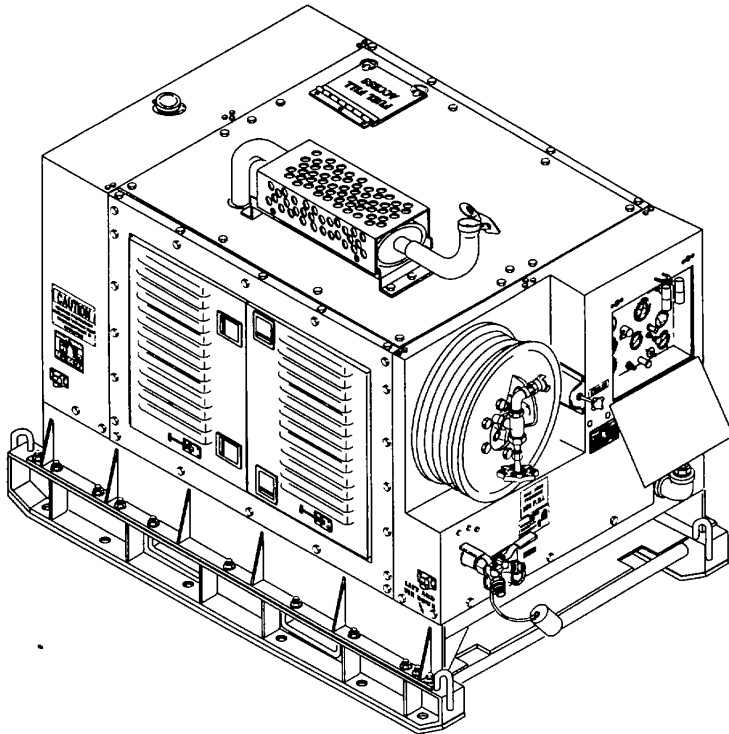


TECHNICAL MANUAL**OPERATOR'S, UNIT, DIRECT SUPPORT,
AND GENERAL SUPPORT MAINTENANCE
MANUAL**

**COMPRESSOR, AIR, ROTARY,
DIESEL ENGINE DRIVEN,
SKID MOUNTED
125 cfm at 100 psi**

(4310-01-384-6951)

MODEL 16MS125

OPERATING INSTRUCTIONS	2-1
OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)	2-5
UNIT MAINTENANCE INSTRUCTIONS	4-1
UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)	4-10
UNIT TROUBLESHOOTING	4-41
DIRECT SUPPORT MAINTENANCE INSTRUCTIONS	5-1
GENERAL SUPPORT MAINTENANCE INSTRUCTIONS	6-1
MAINTENANCE ALLOCATION CHART	B-1

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HEADQUARTERS, DEPARTMENT OF THE ARMY

16 JANUARY 1996

TECHNICAL MANUAL

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 16 January 1996

NO. 9-4310-397-14

**OPERATOR'S, UNIT, DIRECT SUPPORT,
AND GENERAL SUPPORT MAINTENANCE MANUAL,
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125 cfm at 100 psi

MODEL 16MS125

NSN 4310-01-384-6951

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. You may also submit your recommended changes by E-mail directly to <mpmt/%avma28@st-louis-emh7.army.mil>. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

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TABLE OF CONTENTS

			Page
CHAPTER	1	INTRODUCTION	1-1
Section	I	General Information	1-1
Section	II	Equipment Description	1-2
Section	III	Principles Of Operation	1-6
CHAPTER	2	OPERATING INSTRUCTIONS	2-1
Section	I	Description And Use Of Operator's Controls And Indicators	2-2
Section	II	Preventive Maintenance Checks And Services (PMCS)	2-5
Section	III	Operation Under Usual Conditions	2-27
Section	IV	Operation Under Unusual Conditions	2-32
CHAPTER	3	OPERATOR MAINTENANCE INSTRUCTIONS	3-1
Section	I	Lubrication Instructions	3-1
Section	II	Troubleshooting Procedures	3-1
Section	III	Operator's Maintenance Procedures	3-5

TABLE OF CONTENTS - Continued

			Page
CHAPTER	4	UNIT MAINTENANCE INSTRUCTIONS	4-1
Section	I	Repair Parts, Special Tools, Test, Measurement, And Diagnostic Equipment (TMDE), And Support Equipment	4-1
Section	II	Service Upon Receipt	4-1
Section	III	Preventive Maintenance Checks And Services (PMCS), Lubrication And Mandatory Replacement Parts	4-10
Section	IV	Mandatory Replacement Parts	4-40
Section	V	Troubleshooting	4-41
Section	VI	Maintenance Procedures.....	4-65
Section	VII	Preparation For Storage Or Shipment	4-185
CHAPTER	5	DIRECT SUPPORT MAINTENANCE INSTRUCTIONS	5-1
Section	I	Repair Parts, Special Tools, Test, Measurement, And Diagnostic Equipment (TMDE), And Support Equipment	5-1
Section	II	Maintenance Instructions	5-1
CHAPTER	6	GENERAL SUPPORT MAINTENANCE INSTRUCTIONS	6-1
Section	I	Repair Parts, Special Tools, Test, Measurement, And Diagnostic Equipment (TMDE), And Support Equipment	6-1
Section	II	Maintenance Instructions	6-2
APPENDIX	A	REFERENCES	A-1
APPENDIX	B	MAINTENANCE ALLOCATION CHART	B-1
Section	I	Introduction	B-1
Section	II	Maintenance Allocation Chart For Compressor, Air, Rotary, Diesel Engine Driven, Skid Mounted, 125 cfm, 100 psig	B-5
Section	III	Tool and Test Equipment Requirements For Air Compressor	B-12
Section	IV	Remarks For Air Compressor	B-13
APPENDIX	C	COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS	C-1
Section	I	Introduction	C-1
Section	II	Components Of End Item	C-1
Section	III	Basic Issue Items	C-2
APPENDIX	D	ADDITIONAL AUTHORIZATION LIST ITEMS	D-1
Section	I	Introduction	D-1
Section	II	Additional Authorization List	D-1
APPENDIX	E	EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST (EDSML)	E-1
Section	I	Introduction	E-1
Section	II	Expendable Supplies and Materials List	E-2

TABLE OF CONTENTS - Continued

			Page
APPENDIX	F	ILLUSTRATED LIST OF MANUFACTURED ITEMS	F-1
Section	I	Introduction	F-1
Section	II	Manufactured Items Illustrations	F-4
APPENDIX	G	TORQUE	G-1
Section	I	Introduction	G-1
APPENDIX	H	MANDATORY REPLACEMENT PARTS	H-1
GLOSSARY			Glossary 1
ALPHABETICAL INDEX			Index 1

LIST OF TABLES

Table	Title	Page
2-1	Preventive Maintenance Checks and Services for 16M S125	2-8
4-1	Preventive Maintenance Checks and Services for 16M S125	4-12

LIST OF ILLUSTRATIONS

Figure	Title	Page
1-0	Rotary Air Compressor	1-0
1-1	Location of Major Components	1-4
1-2	Air/Oil Flow Schematic	1-7
2-1	Operator's Controls and Indicators	2-3
2-2	Operator PMCS Routing Diagram	2-7
2-3	Unit Operation, Usual	2-28
2-4	Decals and Information Plates (Sheet 1 of 2)	2-30
2-4	Decals and Information Plates (Sheet 2 of 2)	2-31
2-5	Unit Operation, Unusual.....	2-33
4-1	Battery Access	4-3
4-2	Battery Cable Connections	4-3
4-3	Wiring Diagram	4-4
4-4	Fuel Tank Draining	4-5
4-5	Engine Oil Draining	4-6
4-6	Engine Oil Filling	4-7
4-7	Compressor Oil Checking, Draining, and Filling	4-8
4-8	Coolant Draining and Filling	4-9
4-9	Muffler Shroud	4-65

LIST OF ILLUSTRATIONS - Continued

Figure	Title	Page
4-10	Muffler Assembly	4-66
4-11	Exhaust Pipes and Muffler	4-66
4-12	Riser Assembly	4-67
4-13	Top Panel	4-68
4-14	Cover Panel Angles and Dome Light	4-69
4-15	Access Door, Top Panel and Insulation	4-70
4-16	Curbside Doors and Panel	4-71
4-17	Curbside Doors and Panel Assembly	4-71
4-18	Road Side Doors and Panel	4-72
4-19	Road Side Doors and Panel Assembly	4-73
4-20	Rear Panel And Air Block Lower Hinged Panel	4-74
4-21	Rear Panel Hardware	4-75
4-22	Hose Connections	4-76
4-23	Hose Reel	4-76
4-24	Inlet Housing Knob (Unloader)	4-77
4-25	Front Panel Assembly	4-78
4-26	Front Panel Information Plates and Decals	4-80
4-27	Front Panel Insulation	4-81
4-28	Wiring Harness and Leads	4-89
4-29	Ammeter	4-92
4-30	Hourmeter	4-94
4-31	Engine Water Temperature Gauge	4-96
4-32	Compressor Oil Temperature Gauge	4-98
4-33	Lamp Switch	4-101
4-34	Lamps	4-101
4-35	Tachometer	4-103
4-36	Engine Oil Pressure Gauge	4-105
4-37	Safety Override Switch	4-107
4-38	Ignition Switch	4-109
4-39	Relay Reset Switch	4-111
4-40	Priming Pump Control	4-113
4-41	Restriction Indicators	4-115
4-42	Engine Fuel Pressure Gauge	4-117
4-43	Receiver Pressure Gauge	4-119
4-44	Hose Reel Assembly	4-121
4-45	Miscellaneous Wires and Cables	4-123
4-46	Batteries	4-126
4-47	Battery Box	4-127
4-48	Radiator Hoses and Oil Lines.....	4-129
4-49	Radiator	4-131
4-50	Compressor Oil Cooler	4-133
4-51	Pneumatic Service Valve Hoses	4-135
4-52	Compressor Air Cleaner	4-136
4-53	Compressor Oil Filter.....	4-137
4-54	Air Lines	4-139
4-55	Compressor Oil Separator Tubing and Hose Connections	4-141
4-56	Compressor Oil Separator Service and Control Valves	4-142
4-57	Compressor Oil Separator	4-144
4-58	Air Pressure Regulator Adjustment	4-147
4-59	Air Compressor Linkage and Air Lines	4-148

LIST OF ILLUSTRATIONS - Continued

Figure	Title	Page
4-60	Air Compressor Inlet	4-149
4-61	Air Compressor	4-150
4-62	Fuel Lines from Fuel Tank	4-154
4-63	Fuel Lines from Fuel Pressure Gauge	4-155
4-64	Fuel Tank	4-158
4-65	Fuel Tank Assembly	4-158
4-66	Engine Air Cleaner	4-160
4-67	Oil Filter	4-161
4-68	Oil Cooler	4-162
4-69	Speed Control Linkage Adjustment	4-164
4-70	Speed Control Linkage	4-165
4-71	Belt Adjustment	4-166
4-72	Alternator	4-168
4-73	Starter	4-170
4-74	Starter No Load Test Hook Up	4-171
4-75	Dip Stick and Filler Neck	4-174
4-76	Dipstick Adjustment	4-175
4-77	Fuel Pump	4-176
4-78	Fuel Bleed Procedure	4-177
4-79	Fuel Filter	4-178
4-80	Thermostat	4-180
4-81	Exhaust Manifold	4-182
4-82	Diesel Engine	4-183
5-1	Air Compressor Inlet Housing	5-2
5-2	Air Compressor	5-6
5-3	Half (Drive) Coupling	5-8
5-4	Engine Adapter	5-9
5-5	Bearing Cover	5-9
5-6	Non Intake End Cover	5-10
5-7	Oil Seal Cover	5-10
5-8	Rotor Blades	5-11
5-9	Rotor Shaft	5-11
5-10	Rotor	5-12
5-11	Intake End Cover	5-12
5-12	Stator -	5-13
5-13	Gripspring Installation	5-15
5-14	Water Pump	5-16
5-15	Water Pump Assembly	5-17
5-16	Rocker Arm Cover	5-18
5-17	Runner and Skid	5-20
6-1	Injection Nozzle Leak Off Lines and Tee Fittings	6-3
6-2	Injection Nozzle Lines	6-3
6-3	Nozzle Clamp	6-4
6-4	Injection Nozzle	6-4
6-5	Injection Nozzle Seals	6-5
6-6	Nozzle Bore Cleaning	6-5
6-7	Nozzle Cleaning	6-6
6-8	Nozzle Testing	6-7

LIST OF ILLUSTRATIONS - Continued

Figure	Title	Page
6-9	Nozzle Pressure Adjusting	6-10
6-10	Nozzle Pressure Adjusting Lock Nut Torque	6-11
6-11	Nozzle Pressure Lift Adjusting Screw.....	6-11
6-12	Injection Nozzle Installation	6-12
6-13	Timing Marks	6-14
6-14	Injection Pump	6-15
6-15	Timing Gear Cover	6-15
6-16	Injection Pump Installation	6-16
6-17	Injection Pump Line Connection.....	6-17
6-18	Flywheel	6-18
6-19	Flywheel Cover.....	6-19
6-20	Fuel Filter Housing.....	6-21
6-21	Cam Follower Removal	6-22
6-22	Keeper Removal	6-23
6-23	Rocker Arms, Shaft, and Push Rods	6-23
6-24	Liner Height	6-25
6-25	Rocker Arm Specifications	6-26
6-26	Inspect Push Rods	6-27
6-27	Valve Inspection	6-28
6-28	Valve Installation	6-29
6-29	Cylinder Head	6-29
6-30	Cylinder Head Torque	6-30
6-31	Valve Adjustment.....	6-31
6-32	Firing Order	6-32
6-33	Engine Oil Pan	6-33
6-34	Oil Pump	6-35
6-35	Oil Pump Axial Clearance.....	6-36
6-36	Oil Pump Radial Clearance	6-37
6-37	Oil Pump Housing Bore and Shaft OD	6-37
6-38	Oil Pressure Regulating Valve Plug	6-39
6-39	Oil Deflector	6-40
6-40	Camshaft End Play.....	6-40
6-41	Gear Backlash	6-41
6-42	Idler Gear End Play	6-42
6-43	Lifting Tools	6-42
6-44	Cap Screw Location.....	6-43
6-45	Pull Camshaft	6-42
6-46	Thrust Plate Clearance	6-44
6-47	Camshaft Journal Diameter	6-44
6-48	Camshaft Lobe Height	6-45
6-49	Camshaft Gear Removal	6-45
6-50	Camshaft Gear Installation	6-46
6-51	Front Plate	6-46
6-52	Oil By-pass Valve and Spring	6-47
6-53	Idler Gear and Bushing	6-47
6-54	Idler Gear Bushing Removal	6-48
6-55	Idler Gear Bushing Installation	6-48
6-56	Idler Shaft Removal	6-49
6-57	Front Plate Studs.....	6-50
6-58	Front Plate.....	6-50

LIST OF ILLUSTRATIONS -Continued

Figure	Title	Page
6-59	Oil By-pass Valve	6-51
6-60	Front Plate Installation	6-51
6-61	Install Camshaft	6-52
6-62	Timing Mark.....	6-52
6-63	Injection Pump Timing	6-53
6-64	Install Upper Idler Gear	6-53
6-65	Oil Seal	6-54
6-66	Install Oil Deflector	6-55
6-67	Cylinder Liners	6-56
6-68	Connecting Rod Cap	6-57
6-69	Measure Cylinder Height	6-58
6-70	Number Cylinder Liners	6-59
6-71	Pull Cylinder Liners.....	6-59
6-72	Cylinder Liner Puller	6-60
6-73	Cylinder Liner Preformed Packing	6-60
6-74	Inspect Pistons and Liners	6-61
6-75	Remove Piston Rings	6-62
6-76	Inspect Pistons for Cracks	6-63
6-77	Check Keystone Ring Groove	6-63
6-78	Check Second and Third Ring Grooves	6-64
6-79	Install Pin	6-64
6-80	Inspect Liner for Pitting	6-65
6-81	Inspect Liner for Cracks	6-66
6-82	Measure Piston	6-66
6-83	Piston Clearance	6-67
6-84	Piston Clearance	6-67
6-85	Piston Pin Bushing	6-70
6-86	Liner Support Flange	6-71
6-87	Clean Bore.....	6-72
6-88	Install Preformed Packings	6-74
6-89	Install Packing	6-75
6-90	Seat Cylinder Liners.....	6-76
6-91	Ring Gaps	6-77
6-92	Install Piston	6-78
6-93	Install Bearing Insert in Connecting Rod	6-78
6-94	Install Bearing Insert in Connecting Rod Cap	6-79
6-95	Install Cap	6-79
6-96	Install Connecting Rods	6-80
6-97	Main Bearing Caps	6-81
6-98	Main Bearing Clearance	6-82
6-99	Remove Crankshaft	6-83
6-100	Remove Wear Sleeve.....	6-83
6-101	Inspect Crankshaft	6-84
6-102	Measure Bearings	6-85
6-103	Measure Crankshaft Journals.....	6-85
6-104	Measure Main Thrust Journal Width.....	6-86
6-105	Main Thrust Bearing	6-86
6-106	Crankshaft Gear Installation	6-87
6-107	Inspect Piston Cooling Orifices	6-87

LIST OF ILLUSTRATIONS - Continued

Figure	Title	Page
6-108	Install Main Bearings.....	6-88
6-109	Install Main Bearings.....	6-89
6-110	Install Connecting Rod Caps and Bearings.....	6-89
C-1	Basic Issue Items.....	C-2
F-1	Hose and Tubing	F-4
F-2	Trim, Part Number 86425/1 & 86426/1.....	F-5
F-3	Tubing, Part Number 86465-3/4	F-5
F-4	Gasket	F-5
F-5	Gasket, Part Number 89770	F-6
F-6	Loom	F-6
F-7	Electrical Wire	F-7
F-8	Heat Shrink Tubing	F-8
F-9	Gasket, Part Number 89908	F-9
F-10	Insulation, Part Number 89909.....	F-9
F-11	Insulation	F-10
F-12	Insulation, Part Number 89911	F-11
F-13	Insulation, Part Number 89912	F-11
F-14	Insulation, Part Number 89913	F-12
F-15	Insulation, Part Number 89918	F-12
F-16	Insulation, Part Number 89920	F-13
F-17	Gasket	F-13

HOW TO USE THIS MANUAL

Be sure to read all Warnings before using your equipment.

This manual contains instructions for operation and maintenance of the Air Compressor.

The front cover index of this manual lists the areas of the manual used most often and guides you to those sections. Follow the black mark on the cover index edge through the pages to the edge mark on the section you want. The subjects on the front cover index are also highlighted in the table of contents by boxes. A detailed alphabetical index is located at the back of this manual.

Chapter 1 - Introduces you to the equipment and gives you information such as weight and dimensions used and general theory of operation including technical principles of operation.

Chapter 2 - Provides the operator with information necessary to identify and service the equipment. Operating instructions in this chapter tell you how to use the equipment in usual and unusual conditions.

Chapter 3 - Provides operator troubleshooting procedures for identifying common equipment malfunctions and maintenance procedures for performing operator maintenance tasks.

Chapter 4 - Provides unit maintenance personnel with procedures for lubrication and service upon receipt of equipment and instructions for performing repairs on equipment as authorized by the maintenance allocation chart.

Chapter 5 - Provides direct support maintenance personnel with instructions for performing repairs on equipment as authorized by the maintenance allocation chart.

Chapter 6 - Provides general support maintenance personnel with instructions for performing repairs on equipment as authorized by the maintenance allocation chart.

Appendix A - Provides a list of frequently used forms and publications referenced or used in this manual.

Appendix B - The maintenance allocation chart identifies repairable components and the maintenance level authorized to perform the repairs.

Appendix C - Lists components of end item and basic issue items to help you inventory the equipment.

Appendix D - Lists additional items that you are authorized for the support of the air compressor.

Appendix E - Lists expendable and durable items needed to operate and maintain the air compressor.

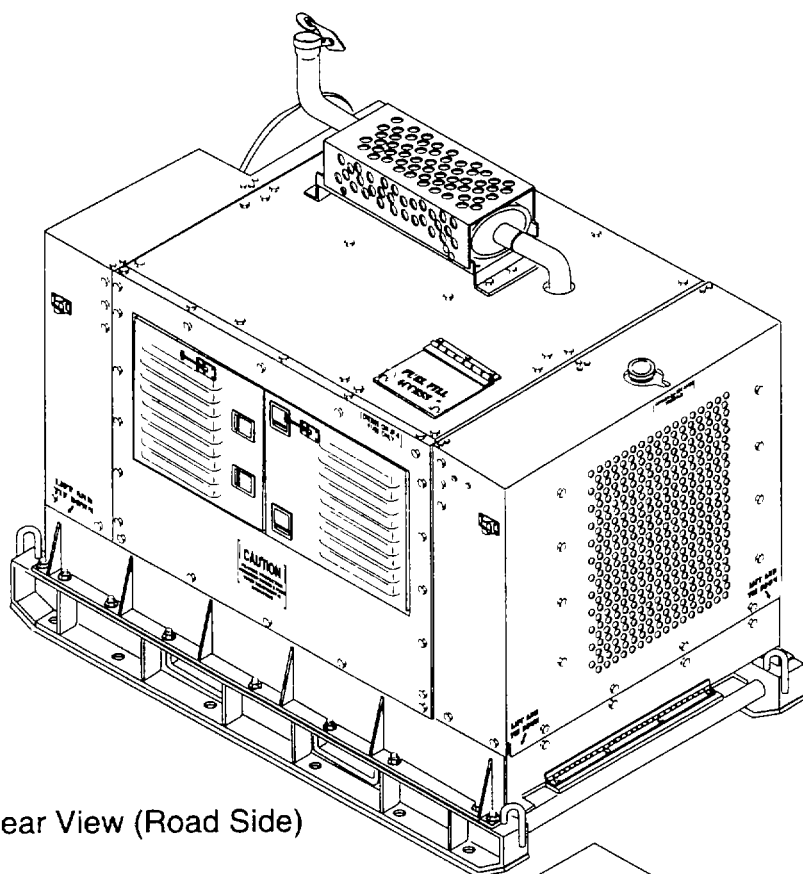
Appendix F - Provides you with instructions for making items authorized to be manufactured or fabricated at unit, direct support, or general support maintenance.

Appendix G - Lists maintenance procedures for specific component torque requirements.

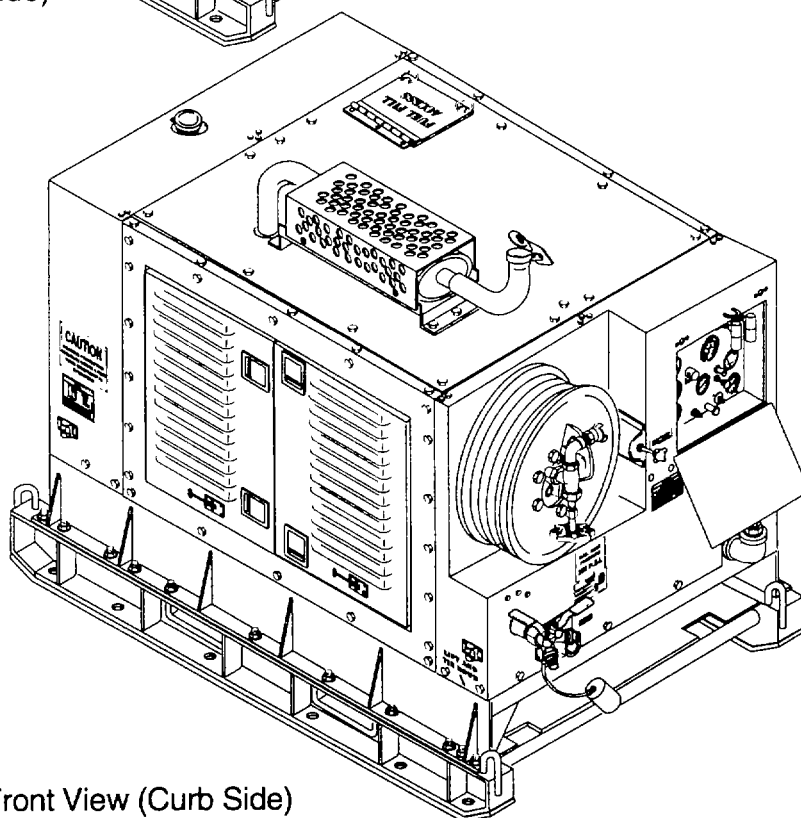
Appendix H - Lists all mandatory replacement parts.

Glossary - Lists terms and abbreviations used in this manual and their definitions.

Alphabetical Index - Lists subject matter contained in manual in alphabetical order with the paragraph number.



Rear View (Road Side)



Front View (Curb Side)

Figure 1-0. Rotary Air Compressor

CHAPTER 1

INTRODUCTION

SECTION I GENERAL INFORMATION

1-1. SCOPE.

- a. Type of Manual. Operator's, Unit, Direct Support and General Support Maintenance Manual.
- b. Model Number and Equipment Name. Model 16MS125, Skid Mounted, Diesel Engine Driven, 125 cfm at 100 psi, Rotary Air Compressor.

WARNING

Do not use compressed air from the equipment for breathing air. The compressor is designed for mechanical use only. Serious injury or death may result using the equipment for respiration air.

- c. Purpose of Equipment. The unit is designed to supply compressed air to power pneumatic tools and charge low pressure air systems. Do not use on life support equipment or breathing apparatus.

1-2. MAINTENANCE FORMS. RECORDS. AND REPORTS.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750, The Army Maintenance Management System; DA Pam 738-751, Functional Users Manual for the Army Maintenance Management System-Aviation (TAMMS-A); or AR 700-138, Army Logistics Readiness and Sustainability.

1-3. DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE.

Refer to TM 750-244-3 for instructions relating to destruction of equipment to prevent enemy use.

1-4. PREPARATION FOR STORAGE OR SHIPMENT.

Refer to Chapter 4 for instructions relating to the preparation for storage or shipment of equipment.

1-5. OFFICIAL NOMENCLATURE, NAMES, AND DESIGNATIONS.

- a. Official Nomenclature. Shortened nomenclature is used in this manual to make procedures easier for you to read. A cross-reference between the shortened nomenclature and the official nomenclature is shown in the following table.

Nomenclature Cross Reference

Manual Nomenclature	Official Nomenclature
Air Compressor	Skid Mounted, Diesel Engine Driven, Rotary Air Compressor
Preformed Packing	O-ring

- b. Abbreviations and Unusual Terms. See Glossary, located before index at the back of this manual.