

TECHNICAL MANUAL

**UNIT, DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE
REPAIR PARTS
AND SPECIAL TOOLS LIST**

FOR

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

NSN 4310-01-384-6951

MODEL 16MS125

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited

**HEADQUARTERS, DEPARTMENT OF THE ARMY
15 APRIL 1996**

TECHNICAL MANUAL

HEADQUARTERS,
DEPARTMENT OF THE AFTMY
WASHINGTON, D. C. 15 APRIL 1996

TM 9-4310-397-24P

TECHNICAL MANUAL

Unit, Direct Support, and
General Support Maintenance
Repair Parts and Special Tools List
for
COMPRESSOR, AIR, ROTARY,
DIESEL ENGINE DRIVEN, SKID MOUNTED
125 cfm at 100 psi
NSN 4310-01-384-6951
MODEL 16MS125
Current as of 1 April 1996

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-1-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.

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

TABLE OF CONTENTS

	Page	Illus/ Figure
Section I. INTRODUCTION	1	
Section II. REPAIR PARTS LIST	1-1	
Group 01 Exhaust and Muffler		
Exhaust and Muffler	1-1	1
Group 02 Covers, Panels, Doors, and Information Plates		
Top Panels	2-1	2
Rear and Side Panels	3-1	3
Front Panel	4-1	4
Group 03 Instrument Control Panel		
Control Panel Electrical Leads	5-1	5
Control Panel	6-1	6
Group 04 Hose Reel		
Hose	7-1	7

TABLE OF CONTENTS-continued

	Page	Illus/ Figure
Group 05 Electrical		
Wires, Cables, and Harnesses	8-1	8
Batteries	9-1	9
Group 06 Radiator and Oil Cooler		
Radiator and Oil Cooler.....	10-1	10
Group 07 Pneumatic		
Compressor Air Cleaner	11-1	11
Compressor Oil Filter and Oil Lines.....	12-1	12
Air Lines.....	13-1	13
Compressor Oil Lines.....	14-1	14
Compressor	15-1	15
Group 08 Fuel		
Fuel Tank	16-1	16
Group 09 Engine		
Engine Air Cleaner	17-1	17
Diesel Engine	18-1	18
Oil Filter, Dip Stick, and Cooler	19-1	19
Belt and Crankshaft Pulley	20-1	20
Alternator.....	21-1	21
Starter	22-1	22
Exhaust Manifold.....	23-1	23
Fuel Injector System.....	24-1	24
Fuel Filter	25-1	25
Fuel Pump.....	26-1	26
Thermostat	27-1	27
Water Pump	28-1	28
Rocker Arm Cover and Vent Tube	29-1	29
Flywheel and Flywheel Housing.....	30-1	30
Air Intake Manifold, Valves, and Cylinder Head	31-1	31
Oil Pump	32-1	32
Camshaft.....	33-1	33
Timing Gear Cover, Idle Gears, and Universal Front Plate	34-1	34
Crankshaft and Bearings	35-1	35
Rocker Arms, Shaft, and Push Rods.....	36-1	36
Connecting Rods, Pistons, Rings, and Liners.....	37-1	37
Engine Oil Pan	38-1	38
Cylinder Block	39-1	39
Group 10 Skid		
Skid and Frame	40-1	40

TABLE OF CONTENTS-continued

		Page	Illus/ Figure
Group 11	Bulk Material Bulk.....	BULK-1	BULK
Section III.	SPECIAL TOOLS LIST		
Group 09	Special Tools Special Tools.....	41-1	41
Section IV.	CROSS REFERENCE INDEXES		
	National Stock Number Index.....	I-1	
	Part Number Index.....	I-4	
	Figure and Item Number Index.....	I-25	

**UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST**

SECTION I INTRODUCTION

1. SCOPE. This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of unit, direct support, and general support maintenance of the Air Compressor. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

2. GENERAL. In addition to Section I, Introduction, this Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. This list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in item name sequence. Repair parts kits are listed separately in functional groups in Section II. Repair parts for repairable special tools are also listed in this section. Items listed are shown in the associated illustration(s)/figure(s).

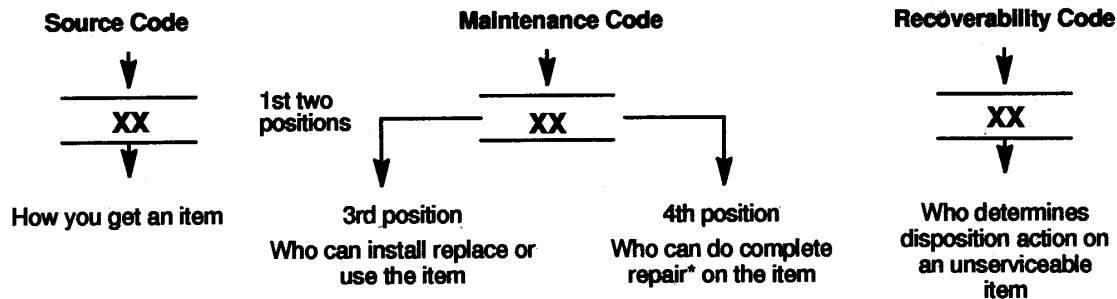
b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

c. Section IV. Cross-Reference Index. A list, in National Item Identification Number (NIIN) sequence, of all national stock numbered items appearing in the listing, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross referenced to each illustration figure and item number appearance. The figure and item number index lists figure and item numbers in alphanumeric sequence and cross references NSN, CAGEC and part number.

3. EXPLANATION OF COLUMNS (SECTIONS II AND III).

a. **ITEM NO. (Column (1)).** Indicates the number used to identify items called out in the illustration.

b. **SMR Code (Column (2))** The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



* Complete Rear: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) Source Code. The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow.

Code	Explanation
PA PB PC** PD PE PF PG	Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the 3rd position of the SMR code. **NOTE: Items coded PC are subject to deterioration.
KD KF KB	

Code		Explanation
MO-	(Made at Unit/AVUM level)	 Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the DESCRIPTION and USABLE ON CODE (UOC) column and listed in the Bulk Material group of the repair parts list in the RPSTL. If the item is authorized to you by the 3rd position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.
MF-	(Made at DS/AVUM level)	
MH-	(Made at GS level)	
ML-	(Made at Specialized Repair Activity (SRA))	
MD-	(Made at Depot)	
AO-	(Assembled by Unit/AVUM level)	 Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3rd position code of the SMR code, authorizes you to replace the item, but the source code indicates the items are assembled at a higher level, order the item from the higher level of maintenance.
AF-	(Assembled by DS/AVUM level)	
AH-	(Assembled by GS Category)	
AL-	(Assembled by SRA)	
AD-	Assembled by Depot)	

Code	Explanation
XA --	Do not requisition an "XA"-coded item. Order its next higher assembly. (Also, refer to the NOTE below.)
XB --	If an "XB" item is not available from salvage, order it using the CAGE Code and part number given.
XC --	Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
XD --	Item is not stocked. Order an "XD"-coded item through normal supply channels using the CAGE Code and part number given, if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.