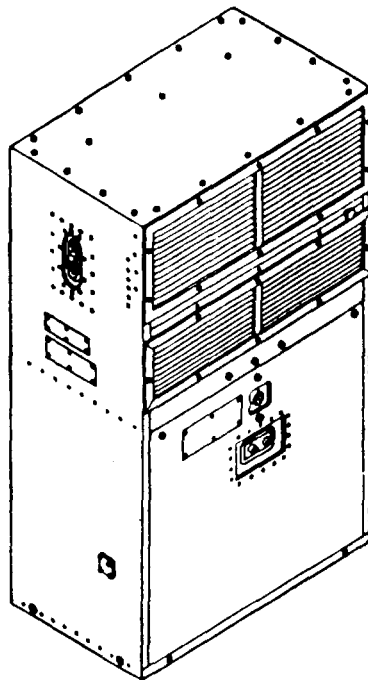




TM 9-4120-399-24P

TECHNICAL MANUAL

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



**AIR CONDITIONER, VERTICAL, COMPACT,
36,000 BTU/HR COOLING
28,600 BTU/HR HEATING
208 VOLT, 3 PHASE, 400 HERTZ
MODEL 3863
NSN 4120-01-244-6385**

Approved for public release; distribution is unlimited.

**HEADQUARTERS, DEPARTMENT OF THE ARMY
23 JANUARY 1992**

TECHNICAL MANUAL

NO. 9-4120-399-24P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 23 JANUARY 1992

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

AIR CONDITIONER, VERTICAL, COMPACT,

36,000 BTU/HR COOLING

28,600 BTU/HR HEATING

208 VOLT, 3 PHASE, 400 HERTZ

MODEL 3863

NSN 4120-01-244-6385

Current as of 27 September 1991

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.

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

TABLE OF CONTENTS

		Page	Ilus. Figure
Section I.	INTRODUCTION	1	1
Section II.	REPAIR PARTS LIST	1	
Group 01	FABRIC COVER, GUARDS, COVERS, LOUVERS, FILTERS, PANELS, AND INFORMATION PLATES		
	Right Side and Rear Outside Panels	1-1	1
	Top, Front and Left Side Outside Panels	2-1	2
Group 02	HEATER DIFFUSER, THERMOSTAT, SWITCH, AND TERMINAL BOARDS		
	Diffuser, Thermostat Cutout, Heating Elements and Terminal Boards	3-1	3
Group 03	EVAPORATOR FAN ASSEMBLY		
	Evaporator Fan Assembly	4-1	4
Group 04	FRESH AIR DAMPER		
	Damper and Actuator	5-1	5
Group 05	JUNCTION BOX ASSEMBLY		
	Junction Box Assembly	6-1	6
	Compressor Connector	7-1	7
	Control Panel	8-1	8
	Wiring Harness		
	J1 Connector and Ground	9-1	9
	Junction Box Housing and Electrical Components	10-1	10

TABLE OF CONTENTS

	Page	Illus. Figure
Group 06 WIRE HARNESES		
Auxiliary and Terminal	11-1	11
Group 07 CONDENSATE DRAIN ASSEMBLY		
Condensate Drain Assembly	12-1	12
Group 08 CONTROL MODULE		
Control Panel Assembly	13-1	13
Group 09 CONDENSER DAMPER, CONDENSER FAN MOTOR, CONDENSER FAN, AND CONDENSER SCROLL		
Condenser Motor Assembly	14-1	14
Group 10 REFRIGERATION VALVES, AND COMPONENTS		
Dehydrator, Receiver, Fusible Plug, Actuator and Solenoid Valve	15-1	15
Pressure Regulating Valve and Quench Valve	16-1	16
Expansion Valve and Sight Glass	17-1	17
Group 11 EVAPORATOR COIL AND STRUCTURE		
Evaporator Coil and Structure	18-1	18
Group 12 PRESSURE SWITCHES AND SERVICE VALVES		
Pressure Switches and Service Valves	19-1	19
Group 13 COMPRESSOR AND ACCUMULATOR		
Compressor and Accumulator	20-1	20
Compressor Replaceable Parts	21-1	21
Group 14 CONDENSER COIL AND GUARD		
Condenser Coil and Guard	22-1	22
Group 15 TUBING AND FITTINGS		
Group 16 CASING		
Casing Hardware	23-1	23
Insulation	24-1	
B U L K	Bulk-1	24
Section III. Special Tools List (Not Applicable)		
Section IV. Cross-Reference Indexes		
National Stock Number Index	I-1	
Part Number Index	I-4	
Figure and Item Number Index	I-17	

**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 Conditioner, Vertical, 36,000 BTU. 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 this section, 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. The 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 their own functional group within Section II. Repair parts for repairable special tools are also listed in this section. Items listed are shown on the associated illustration(s)/figure(s).

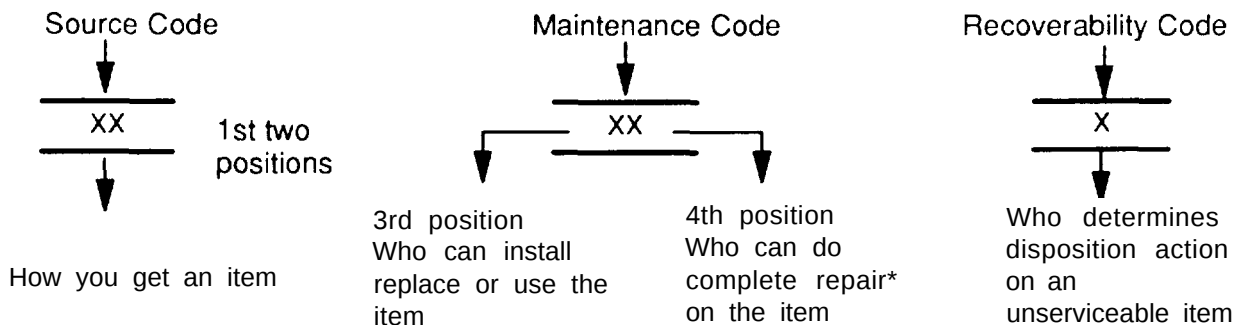
b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

c. Section IV. Cross-references indexes. 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 number 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 Repair: 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 to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

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	
MO — (Made at org AVUM Level) MF — (Made at DS/AVUM Level) MH — (Made at GS Level) ML — (Made at Specialized Repair Activity (SRA)) MD — (Made at Depot)	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 this 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.
AO — (Assembled by org/AVUM Level) AF — (Assembled by DS/AVIM Level) AH — (Assembled by GS Category) AL — (Assembled by SRA) AD — (Assembled by Depot)	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.
XA — Do not requisition "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 CAGEC and part number given.	
XC — Installation drawing, diagram, instruction sheet, field service drawing, that is identified by Reciprocating Compressor manufacturer's part number.	
XD — Item is not stocked. Order an "XD" -coded item through normal supply channels using the CAGEC and part number given if no NSN is available.	