

ORGANIZATIONAL,
DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
FOR

PUMP UNIT, CENTRIFUGAL, HOSELINE, 600 GPM,
DIESEL-ENGINE-DRIVEN
NSN 4320-01-193-3429

Approved for public release. Distribution is unlimited.

H E A D Q U A R T E R S , D E P A R T M E N T O F T H E A R M Y

2 5 J U L Y 1 9 8 8

TECHNICAL MANUAL

TM 5-4320-305-24P

HEADQUARTERS

DEPARTMENT OF THE ARMY

WASHINGTON, D.C., 25 July 1988

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

FOR

**PUMP UNIT, CENTRIFUGAL, HOSELINE, 600 GPM,
DIESEL-ENGINE-DRIVEN
NSN 4320-01-193-3429
Current as of 21 September 1987**

Approved for public release. Distribution is unlimited.

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 the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in back of this manual direct to: AMSTR-MCTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished to you.

TABLE OF CONTENTS

		Page	Illus. Figure
Section I.	INTRODUCTION	1-1	
Section II.	REPAIR PARTS LIST	2-1	
Group 00	Pump and Trailer Assembly	1-1	1
	Engine Lifting Bail and Noise Shields	1-1	1
Group 01	Battery System	2-1	2
	Battery System	2-1	2
Group 02	Electrical System	3-1	3
	Electrical System Assembly	3-1	3
	Control Panel Cover Assembly	4-1	4
	Control Panel Wiring Assembly	5-1	5
	Control Panel	6-1	6
	Control Box	7-1	7
Group 03	Pump Suction Assembly	8-1	8
	Suction Assembly	8-1	8
	6-Inch Gate Valve	9-1	9

TABLE OF CONTENTS (Continued)

		Page	Illus. Figure
Group 04	Pump Discharge Assembly	10-1	10
	Pump Discharge Assembly	10-1	10
	Air Valve Cover Assembly	11-1	11
	Air Release Valve	12-1	12
	Discharge Check Valve Assembly.....	13-1	13
	6-Inch Gate Valve	14-1	14
Group 05	Pump Assembly	15-1	15
	Pump Assembly	15-1	15
Group 06	Engine Cover	16-1	16
	Engine Cover Assembly.....	16-1	16
	Ether Start Kit	17-1	17
	Quick Release Link and Mounting Bracket	18-1	18
Group 07	Actuator Bracket Assembly	19-1	19
	Engine Assembly	20-1	20
	Engine Assembly	20-1	20
	V-Belts	21-1	21
	Air Cleaner and Air Inlet Assembly	22-1	22
	Flywheel Assembly	23-1	23
	Breather Assembly.....	24-1	24
	Lube Oil Cooler	25-1	25
	Cooling Blower Ducting	26-1	26
	Cooling Blower Assembly.....	27-1	27
	Exhaust Assembly	28-1	28
	Exhaust Manifold	29-1	29
	Suction Pipe	30-1	30
	Oil Sump.....	31-1	31
	Oil Drain Assembly	32-1	32
	Oil Filter, Lines and Fittings	33-1	33
	Lube Oil Pump	34-1	34
	Two Stage Fuel Filter.....	35-1	35
	Fuel Lines and Fittings.....	36-1	36
	Injection Pipes	37-1	37
	Fuel Injection Pump Mounting and Drive.....	38-1	38
	Fuel Injection Pump	39-1	39
	Governor Assembly	40-1	40
	Solenoid Valve.....	41-1	41
	Fuel Pump	42-1	42
	Fuel Injection	43-1	43
	Turbocharger	44-1	44
	Starter Assembly.....	45-1	45
	Alternator Assembly.....	46-1	46
	Cylinder Head Assembly	47-1	47
	Rocker Arms, Pushrods and Tappets	48-1	48
	Idle Pulley Cover Assembly	49-1	49
	Camshaft Drive.....	50-1	50
	Front Cover.....	51-1	51
	Camshaft	52-1	52
	Piston Assembly	53-1	53

TABLE OF CONTENTS (Continued)

		Page	Illus. Figure
	Connecting Rod Assembly	54-1	54
	Crankshaft Assembly	55-1	55
	Crankcase Assembly.....	56-1	56
	Crankcase Housing Adapter.....	57-1	57
	Nameplates.....	58-1	58
Group 08	Trailer Assembly	59-1	59
	Tool Box and Accessories.....	59-1	59
	Retrofit Kit.....	60-1	60
	Trailer Assembly	61-1	61
	Trailer Electrical Components	62-1	62
	Fuel Tank Mounting	63-1	63
	Fuel Tank Assembly	64-1	64
	3-Way Valve Assembly	65-1	65
	Springs and Shocks	66-1	66
	Axle and Wheel Assemblies.....	67-1	67
	Left and Right Hand Brake Assemblies	68-1	68
	Brake Lines and Hand Brake Assemblies.....	69-1	69
	Trailer Assembly	70-1	70
	Surge Brake.....	71-1	71
Section III.	SPECIAL TOOLS LIST	72-1	
	Special Tools	72-1	72
Section IV.	CROSS-REFERENCE INDEXES.....	I-1	
	National Stock Number Indexes.....	I-1	
	Part Number Index.....	I-4	
	Figure and Item Number Indexes.....	I-32	

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 organizational, direct support, general support maintenance of the centrifugal pump unit. 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).

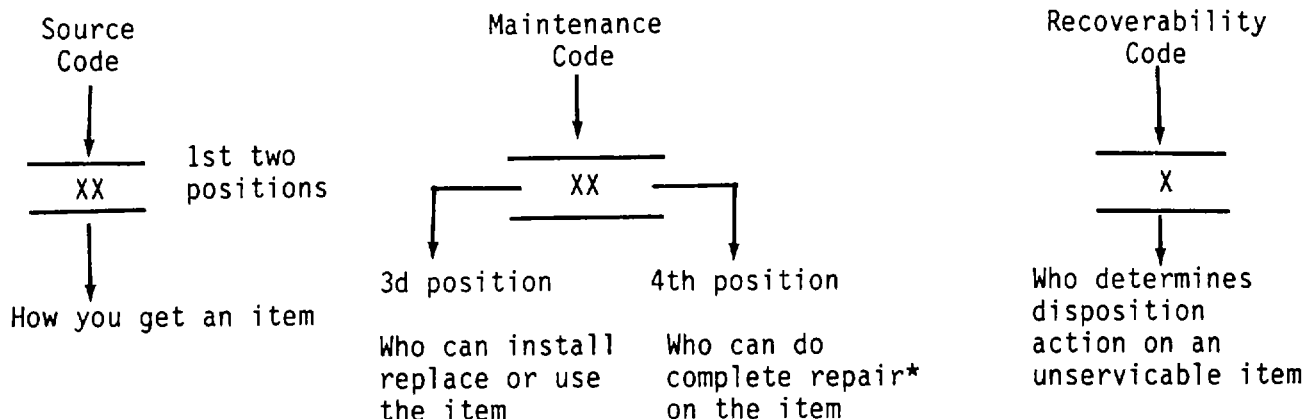
b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

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, FSCM 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	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 3d position of the SMR code.
PB	
PC**	
PD	
PE	
PF	
PG	
KD	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3d position of the SMR code. The complete kit must be requisitioned and applied.
KF	
KB	

Code	Explanation
MO-- (Made at org. 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 this RPSTL. If the item is authorized to you by the 3d 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
MF-- (Made at DS/ AVUM Level)	
MH-- (Made at GS Level)	
ML-- Made at Specialized Repair Activity (SRA))	
MD-- (Made at Depot) of maintenance.	

Code	Explanation
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 3d 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.

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 FSCM 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 FSCM 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.

(2) Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

- (a) The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following levels of maintenance.

Code	Application/Explanation
C	--Crew or operator maintenance done within organizational or aviation unit maintenance.
O	--Organizational or aviation unit category can remove, replace, and use the item.
F	--Direct support or aviation intermediate level can remove, replace, and use the item.