

TECHNICAL MANUAL

DIRECT AND GENERAL SUPPORT AND DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LISTS

COMPRESSOR, RECIPROCATING,
ELECTRIC MOTOR DRIVEN,
4 CFM, 3000 PSI
(STEWART WARNER MDL 12010A)
FSN 4310-196-1617

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
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		Paragraph	Page
Section I.	INTRODUCTION.....		iii
	Scope	1	iii
	General.....	2	iii
	Explanation of columns	3	iii
	Special information	4	v
	How to locate repair parts	5	v
	Abbreviations	6	v
	Federal supply codes for manufacturers	7	vi
	Recommendations for maintenance publications improvements	8	vi
		Listing Page	Illus Figure
II.	REPAIR PARTS FOR DS, GS, AND DEPOT MAINTENANCE.....	1	
Group 01.	Air Lines and Fittings.....	1	1
	02. Separator.....	2	2
	03. Dump Valve.....	3	3
	04. Control Box and Timer	3	4
	Control box components		5
	05. Electric Motor	4	6
	Electric motor components		7
	06. Compressor	7	
	Aftercooler and guard		8
	First stage cylinder, piston and valve assembly		9
	Second and third stage cylinder		10
	Crankshaft and oil pump components		11
	07. Repair Kits	15	
Section III.	SPECIAL TOOLS, TEST AND SUPPORT EQUIPMENT FOR DS, GS, AND DEPOT MAINTENANCE -Not Applicable		
IV.	FEDERAL STOCK NUMBER AND REFERENCE NUMBER INDEX	29	

SECTION I INTRODUCTION

1. Scope

This manual lists repair parts required for the performance of direct support, general support, and depot maintenance of the compressor.

2. General

This Repair Parts and Special Tools List is divided into the following sections:

a. Repair Parts Section II. A list, in figure and item number sequence, of repair parts authorized for the performance of maintenance at the direct support, general support, and depot level, including those items which must be removed for replacement of the authorized item. Items, except kits and sets, are listed by assembly groups in top down breakdown sequence. Repair parts kits and sets are listed separately as Group 07 at the end of the Repair Parts List without regard to the assembly group to which they belong. Components of the kits and sets are listed in their proper sequence in the assembly group to which they belong and are referenced to the FSN of the kit or set.

b. Special Tools, Test and Support Equipment Section III. A list of special tools, test and support equipment authorized for the performance of maintenance at the direct support, general support, and depot level Not applicable.

c. Federal Stock Number and Reference Number Index Section IV. A list of Federal stock numbers in ascending numerical sequence followed by a list of reference numbers in ascending alpha-numeric sequence, cross-referenced to the illustration figure number and item number.

Note. Items not illustrated are 'cross-referenced to group number.

3. Explanation of Columns

The following provides an explanation of columns in the tabular lists in sections II and III:

a. Source, Maintenance, and Recoverability Code (SMR).

(1) Source code. Indicates the source for the listed items. Source codes are:

Code	Explanation
P	Repair Parts, Special Tools and Test Equipment supplied from GSA/DSA, or Army supply system, and authorized for use at indicated maintenance categories.

P2 Repair Parts, Special Tools and Test Equipment which are procured and stocked for insurance purposes because the combat or military essentially of the end item dictates that a minimum quantity be available in the supply system.

M Repair Parts, Special Tools and Test Equipment which are not procured or stocked, as such, in the supply system but are to be manufactured at indicated maintenance levels.

A Assemblies which are not procured or stocked as such, but are made up of two or more units.

Such component units carry individual stock numbers and descriptions, are procured and stocked separately and can be assembled to form the required assembly at indicated maintenance categories.

X Parts and assemblies that are not procured or stocked because the failure rate is normally below that of the applicable end item or component. The failure of such part or assembly should result in retirement of the end item from the supply system.

X1 Repair Parts which are not procured or stocked. The requirement for such items will be filled by the next higher assembly or component.

X2 Repair Parts, Special Tools, and Test Equipment which are not stocked and have no foreseen mortality. The indicated maintenance category requiring such repair parts will attempt to obtain the parts through cannibalization or salvage, the item may be requisitioned with exception data, from the end item manager, for immediate use.

G Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above DS and GS level or returned to depot supply level.

(2) Maintenance code. Indicates the lowest category of Maintenance authorized to install the listed item. The maintenance level codes are:

Code	Explanation
C	Operator/Crew maintenance
O	Organizational maintenance
F	Direct Support maintenance
H	General Support maintenance
D	Depot maintenance

(3) *Recoverability code.* Indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are:

Code	Explanation
R	Applied to repair parts, (assemblies and components) special tools and test equipment which are considered economically reparable at direct and general support maintenance levels. When the item is no longer economically reparable, it is normally disposed of at the GS level. When supply consideration dictate, some of the repair parts may be listed for automatic return to supply for depot level repair as set forth in AR '710-50. When so listed, they will be replaced by supply on an exchange basis.
S	Repair Parts, Special Tools, Test Equipment and assemblies which are economically reparable at DSU and GSU activities and which normally are furnished by supply on an exchange basis. When items are determined by a GSU to be uneconomically reparable, they will be evacuated to a depot for evaluation and analysis before final disposition.
T	Higher dollar value recoverable repair parts, special tools and test equipment which are subject to special handling and are issued on an exchange basis. Such items will be repaired or overhauled at depot maintenance activities only. No repair may be accomplished at lower levels.
U	Repair Parts, Tools and Test Equipment specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value or reusable casings or castings.

b. Federal Stock Number. This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

c. Description. This column indicates the Federal item name and a minimum characteristic description required to describe the item. Assembly components and subassemblies are indented under major assemblies. The abbreviation "w/e" when used as a part of the nomenclature indicates the Federal stock number includes all armament, equipment, accessories, and repair parts issued with the item. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturer in parenthesis. Repair part quantities included in kits and sets are shown in front of the repair part name. Material required for manufacture or fabrication is identified.

d. Unit of Measure (U/M). A two-character alphabetic abbreviation indicating the amount or quantity of the item, as used, upon which the allowances are based, e.g., ft, ea., pr., etc.

e. Quantity Incorporated in Unit. This column indicates the quantity of the item used in the assembly group. A "V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated (e.g., shims, spacers, etc.).

f. 30-Day DS/GS Maintenance Allowances.

Note. Allowances in the GS column are for GS maintenance only.

(1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn, opposite the first appearance of each item, is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in the applicable allowance columns indicating total allowance quantities will be shown with the first appearance of the item. To locate the referenced item, locate the FSN or reference number in the index. The earliest figure and item number is the referenced item. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The quantitative allowances for DS/ GS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.

(3) To determine allowances when supporting more than 100 of these equipments: First, divide the number of equipments supported by 100 by moving the decimal two places left; second, multiply the result by the quantity in the 51-100 density column. Example, authorized allowances for 51-100 equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.

g. One-Year Allowances Per 100 Equipments/ Contingency Planning Purposes. This column indicates opposite the first appearance of each item the total quantity required for distribution and contingency planning purposes. Subsequent appearances of the same item will have the letters "REF" in this column. To locate the referenced item, locate the FSN or reference number in the index. The earliest figure and item number is the referenced item.

The range of items indicates total quantities of all authorized items required to provide adequate support of 100 equipments for one year.

h. Depot Maintenance Allowance Per 100 Equipments. This column indicates opposite the first appearance of each item the total quantity authorized for depot maintenance of 100 equipments. Subsequent appearances of the same item will have the letters "REF" in the allowance column. To locate the referenced item, locate the FSN or reference number in the index. The earliest figure and item number is the referenced item. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

i. Illustration. This column is divided as follows:

(1) Figure number. Indicates the figure number of the illustration on which the item is shown.

(2) Item number. Indicates the callout number used to reference the item in the illustration.

4. Special Information

a. Repair parts mortality has been based on 1,000 hours of operation per year.

b. Parts which require manufacture or assembly at a category higher than that authorized for installation will indicate in the source column the higher category.

c. The following publications pertain to compressor and its components:

LO 9-2350-230-12	Lubrication order
TM 9-2350-230-12	Operator and Organizational Maintenance Manual
TM 9-2350-230-25P/2	Organizational, Direct and General Support and Depot Maintenance Repair Parts and special Tools list manual

5. How to Locate Repair Parts

a. When Federal stock number, reference number or part number is unknown:

(1) Using the table of contents, determine the assembly group within which the repair part belongs. This is necessary since illustrations are prepared for assembly groups, and listings are divided into the same groups.

(2) Find the illustration covering the assembly group to which the repair part belongs.

(3) Identify the repair part on the illustration and note the illustration figure number and item number of the repair part.

(4) Using the Repair Parts Listing, find the assembly group to which the repair part belongs and locate the illustration figure and item number noted on the illustration.

b. When the Federal stock number, reference number, or part number is known:

(1) Using the Index of Federal Stock Numbers, Reference Numbers, and/or Part Numbers find the pertinent Federal stock number, reference number, and/or part number. This index is in ascending FSN sequence followed by a list of reference numbers or part numbers in ascending alpha-numeric sequence, cross-referenced to the illustration figure number and item number.

(2) Using the Repair Parts Listing, find the assembly group of the repair part and the illustration figure number and item number referenced in the Index of Federal Stock Numbers, Reference Numbers, or Part Numbers.

c. When the Federal stock number, reference number, or part number is known and the repair part is not illustrated:

(1) Using the Index of Federal Stock Numbers, Reference Numbers, or Part Numbers find the pertinent Federal stock number, reference number, or part number in the section titled "Items Not Illustrated" and note the group number. This section is in ascending FSN sequence followed by a list of reference numbers or part numbers in alpha-numeric sequence, cross-referenced to assembly group number.

(2) Using the Table of Contents, locate the assembly group number and page number.

(3) Using the applicable group number and page number, locate the pertinent FSN, reference number, or part number in the Repair Parts Listing. Items which are not illustrated are listed at the end of the assembly group to which they belong.

6. Abbreviations

amp	ampere (s)
ea	each
mtg	mounting

7. Federal Supply Codes for Manufacturers

<i>Code</i>	<i>Manufacturer</i>
03038	Long-Lok Corp.
06370	Fike Metal Products Corp.
08484	Breeze Corporations Inc.
21335	Fafnir Bearing Co., Division of Textron Inc., The 43334 .New Departure-Hyatt Bearings, Division General Motors Corp.
56878	Standard Pressed Steel Co.
60380	Torrington Co. , The
77200	Pesco Products, Division of Borg Warner Corp.
78385	South Wind, Div. of Stewart-Warner Corp.
80201	Chicago Rawhide Mfg. Co.

80205	National Aerospace Standards Committee, Aeronautical Industries Association of America 88044. Aeronautical Standards Group, Dept. of Navy and Air Force 91816 . James Pond and Clark Inc.
92003	Parker Aircraft Co.
93410	Stemco Controls, Controls Division of Essex Wire Corp.
96906	Military Standards Promulgated by Standardization, Div. Directorate of Logistic Services DSA

8. Recommendations for Maintenance

Publication Improvements

Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications), and forwarded direct to Commanding General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.