

ARMY TM 5-4310-247-20P

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS
AND SPECIAL TOOLS LISTS

COMPRESSOR, ROTARY, AIR, DIESEL ENGINE DRIVEN,
TRAILER MOUNTED, 2-WHEEL, PNEUMATIC TIRES,
250 CFM, 100 PSI
(JOY MODEL RPV250DC20MSI)
FSN 4310-952-7142

TECHNICAL MANUAL }
 No. 5-4310-247-20P }

HEADQUARTERS
 DEPARTMENTS OF THE ARMY
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ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS

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* This manual supersedes TM 5-4310-247-20P, 6 April 1966, including C 1, 6 February 1967.

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SECTION I INTRODUCTION

1. Scope

This manual lists repair parts required for the performance of organizational maintenance of the air compressor.

2. General

a. The repair parts list is arranged as follows:

(1) Individual parts and major assemblies are listed alphabetically by item name within the numbered functional groups.

(2) Assembly components and subassemblies are indented and listed alphabetically by item name under major assemblies.

b. This repair parts and special tools list is divided into the following sections:

(1) *Prescribed Load Allowance (PLA) – Section II.* A consolidated listing of repair parts quantitatively allocated for initial stockage at the organizational level. *This is a mandatory stockage allowance.*

(2) *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 organizational level. (Not applicable.)

(3) *Repair Parts – Section IV.* A list of repair parts authorized for the performance of maintenance at the organizational level.

(4) *Federal Stock Number and Reference Number Index – Section V.* A list of Federal stock numbers followed by reference numbers in ascending alphanumeric sequence, cross-referenced to index number.

3. Explanation of Columns

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

a. *Source, Maintenance, and Recoverability Codes (SMR).*

(1) Source code indicates the selection status and source for the listed item. Source codes used are:

Code	Explanation
P	Applied to repair parts which are stocked in or supplied from DSA/GSA or Army supply system, and authorized for use at indicated maintenance categories.
M	Applied to repair parts which are not procured or stocked but are to be manufactured at indicated maintenance categories.
A	Applied to assemblies which are not procured or stocked as such but made up of two or more units, each of which carry individual stock numbers and descriptions and are procured and stocked and can be assembled by units at indicated maintenance categories.
x	Applied to parts and assemblies which are not procured or stocked, the mortality of which is normally below that of the applicable end item, and the failure of which should result in retirement of the end item from the supply system.

x1	Applied to repair parts which are not procured or stocked, the requirement for which will be supplied by use of the next higher assembly or components.
x2	Applied to repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain them through cannibalization; if not obtainable through cannibalization, such repair parts will be requisitioned with supporting justification through normal supply channels.
G	Applied to major assemblies that are procured with PEMA (Procurement Equipment Missile Army) funds for initial issue only, to be used as exchange assemblies at DSU and GSU maintenance level. These assemblies will not be stocked above DSU and GSU level or returned to depot supply level.

Note. Source code is not shown on common hardware items known to be readily available in Army supply channels and through local procurement.

(2) Maintenance code indicates the lowest category of maintenance authorized to install the listed item. The maintenance level code is:

Code	Explanation
0	Organizational maintenance

(3) Recoverability code indicates whether un-serviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are:

Code	Explanation
R	Applied to repair parts and assemblies which are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis.
T	Applied to high dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts normally are repaired or overhauled at depot maintenance activities.
U	Applied to repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value reusable casings or castings.

(4) This column also lists, below the SMR code, an index number for each item in ascending numerical sequence, which is used to locate items in the publication when the Federal stock number and/or reference number is known.

b. *Federal Stock Number.* This column indicates the Federal stock number for the item.

c. *Description* This column indicates the Federal item name and any additional description of the item required. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers, in parentheses.

Material required for manufacture or fabrication is identified.

d. *Unit of Issue.* This column indicates the unit used as a basis for issue; e.g., ea, pr, ft, yd, etc.

e. *Quantity Incorporated in Unit Pack.* This column indicates the actual quantity contained in the unit pack.

f. *Quantity Incorporated in Unit.* This column indicates the quantity of the item used in the functional group.

g. *Fifteen-Day Organizational Maintenance Allowance, Column (4) of Section II and Column (7) of Sections III and IV.*

(1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn is the quantity of items authorized for the number of equipments supported. 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 organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizational authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column applicable to the number of items supported to obtain the total quantity of repair parts authorized.

(3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. Example, authorized allowance for 51-100 equipments is 40; for 150 equipments, multiply 40 by 1.50 or 60 parts required.

(4) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be forwarded to U.S. Army Mobility Equipment Command for exception or revision to the allowance list. Revisions to the range of items authorized will be made by this Command based upon engineering experience, demand data, or TAERS information.

h. *Illustration, Column (8).* This column is divided as follows:

(1) *Figure number, column (8)(a).* Indicates the figure number of the illustration in which the item is shown.

(2) *Item number, column (8)(b).* Indicates the callout number used to reference the item in the illustration.

4. Special Information

a. Repair parts mortality has been based on 3,000 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 the air compressor and its components:

TM 5-4310-247-15	Organizational, DS, GS, and Depot Maintenance Manual
LO 5-4310-247-15	Lubrication Order

5. How to Locate Repair Parts

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

(1) *First.* Using the table of contents, determine the functional group within which the repair part belongs.

(2) *Second.* Find the illustration covering the functional group to which the repair part belongs.

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

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

b. When Federal stock number or reference number is known:

(1) *First.* Using the Index of Federal Stock Numbers and Reference Numbers, find the pertinent Federal stock number or reference number. This index is in ascending alphanumeric sequence cross-referenced to an index number.

(2) *Second.* Using the Repair Parts Listing, find the index number referenced in the Index of Federal Stock Numbers and Reference Numbers.

6. Abbreviations

deg	degree (s)
ea	each
ft	feet(foot)
gl	gallon
grp.	group
id.	inside diameter
in	inch
lg	long(length)
lh.	left-hand
mtg.	mounting
No.	number(s)
NPT.	National Taper Pipe (Thread)
od	outside diameter
rh.	right-hand
thd	thread (ed)
thk	thick (ness)