

TECHNICAL MANUAL

**DIRECT AND GENERAL SUPPORT AND DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST**

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

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Current as of 26 March 1969**

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SECTION I INTRODUCTION

1. Scope

This manual lists repair parts required for the performance of direct support, general support, and depot 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) *Repair Parts Section II.* A list of repair parts authorized for the performance of maintenance at the direct support, general support, and depot level.

(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 direct support, general support, and depot level. (Not applicable.)

(3) *Federal Stock Number and Reference Number Index Section IV.* 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 and III:

a. *Source, Maintenance, and Recoverability Code (SMR), Column (1).*

(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 codes are:

Code	Explanation
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 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, Column (2). This column indicates the Federal stock number for the item.

c. Description, Column (3). 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, Column (4). This column indicates the unit used as a basis for issue; e.g., ea, pr, ft, yd, etc.

e. Quantity Incorporated in Unit Pack, Column (5). This column indicates the actual quantity contained in the unit pack.

f. Quantity Incorporated in Unit, Column (6). This column indicates the quantity of the item used in the functional group.

g. Thirty-Day DS/OS Maintenance Allowance, Columns (7) and (8).

(1) The allowance columns are divided into three 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. DS/GS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.

(3) Determination of the total quantity of parts required for maintenance of more than 100 of these equipments can be accomplished 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.

h. One-Year Allowances Per 100 Equipments/Contingency Planning purposes, Column 9. This column indicates the quantity required for distribution and contingency planning purposes. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for one year.

i. Depot Maintenance Allowance Per 100 Equipments, Column (20) This column indicates the quantity authorized for depot maintenance of 100 equipments. Items authorized for use but not for initial stockage are identified with an asterisk in the allowance column.

j. Illustration, column (11).

(1) *Figure number, column 11a.* Indicates the figure number of the illustration in which the item is known.

(2) *Item number, column 11b.* Indicates the callout number used to reference the item in the illustration.

4. Special Information

a. Repair parts mortality has been based on 6,000 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

TM 5-4310-247-20P Organizational Maintenance
Repair Parts and
Special Tools Lists,

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 crossreferenced 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

clcoil
deg.....degree(s)
dia.....diameter(s)
eseach
ft.....foot (feet)
gl.....gallon
grp.....Group
id.....inside diameter
lbpound
glong (length)
lhleft-hand
mtg.....mounting(s)
No.....number Is)
NPT.....National Taper Pipe (Thread)
od.....outside diameter
rh.....right-hand
rlreel (roll)
thd.....thread (ed)
thkthick (ness)

7. Federal Supply Codes for Manufacturers

<i>Code</i>	<i>Manufacturer</i>
00000.....	Ordnance Corps
00736.....	Air-Maze Div of Rockwell-Stadard Corp.
06004.....	Bassick Div, Stewart-Warner Corp
09049.....	Custom Component Switches, Inc.
09971.....	Sturgis, M. B., Inc.
14351.....	Continental Motors Corp.
14959.....	Crane Co.
15434.....	Cummins Engine Co.
16764.....	Delco-Remy Div of General Motors Corp
18265.....	Donaldson Co., Inc.
19220.....	Eberhard Mfg. Co.
19728.....	Prestolite Co., The
21387.....	Fairbanks Morse, Inc.
24455.....	General Electric Co. Lamp Div of Consumer Products Group
26901.....	Hallett Mfg. Co.
32537.....	Joy Mfg. Co.
33525.....	Kidde Walter and Co, Inc.
44218.....	Norwalk Co., Inc.
51600.....	Rollway Bearing Co., Inc.
57733.....	Stewart-Warner Corp.
58417.....	Sundstrand Corp.
61112.....	Turner Corp.
63686.....	Walworth Co.
70040.....	AC Spark Plug Div of General Motors Corp.
71951.....	Doray Lamp Co., Inc.
73273.....	Hose Accessories Co.
73370.....	Fram Corp.
74400.....	Hobbs, John W. Corp.
76700.....	Nelson Muffler Corp
78124.....	Seale Homer T., Inc.
79260.....	Walker Mfg. Co.

79470.....	Weatherhead Co, The
80254.....	Avco/Lycoming Div, Williamsport Plant
80659	AC Spark Plug Div of General Motors Corp
81321.....	Purolator Products, Inc.
81348.....	Federal Specifications Promulgated By General Services Administration
81349.....	Military Specifications Promulgated By Standardization Div., Directorate of Logistic Services DSA
81895.....	Perfecting Service Co., Breco Div.
83179.....	Joy Mfg. Co
84760.....	Standard Screw Co, Hartford Div.
88044.....	Aeronautical Standards Group, Dept of Navy and Air Force
92029.....	Auto-Ponents, Inc.
96452.....	American-Standard Controls Div of American Radiator and Standard Sanitary Corp.
96906	Military Standards Promulgated By Standardization Div, Directorate of Logistic Services DSA
99539.....	General Fire Extinguisher Corp.

8. Recommendations for Maintenance Manual 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.

(1) SMR CODE INDEX NO.	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NO. & MFR. CODE USABLE ON CODE		(4) UNIT OF ISSUE UNIT PACK	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS MAINT ALLOWANCE			(8) 30-DAY GS MAINT ALLOWANCE			(9) 1-YR ALW PER 100 EQUIP CNTGCT	(10) DEPOT MAINT ALW PER 100 EQUIP	(11) ILLUS- TRATION	
							(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(a) FIG NO.	(b) ITEM NO.
00001		SECTION II - REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE														
00002		GROUP 01 - ENGINE														
00003		0100 - ENGINE ASSEMBLY														
X2 F 00003		BOLT EYE, LIFTING T427A201 (14351)		EA		1									2	11
X2 F 00004		BUSHING: front engine mount JD382B202 (14351)		EA		2									6	12
P FT 00005	2815-225-4786	ENGINE, DIESEL 701701-63 (83179)		EA		1	*	*	*	*	*	*	5	2		
X2 F 00006		BUSHING, front engine mount JD38B202 (14351)		EA		2										
P 0 00007	2815-225-4784	GASKET SET: engine overhaul JD40311 (14351) (Includes components of GASKET SET, Stock No. 2815-722-6349)		EA		1	2	3	6	2	3	6	75	100		
X1 00008	2815-870-9536	GASKET: exhaust manifold flange JD403E200 (14351)		EA		1				SEE	GRP	0108				
X1 00009		GASKET: gear cover J382B306 (14351)		EA		1				SEE	GRP	0105				
X1 00010		GASKET: oil cooler JD382L217 (14351)		EA		1				SEE	GRP	0106				
X1 00011	2930-171-6575	GASKET: oil cooler elbow K600L206 (14351)		EA		2				SEE	GRP	0106				
X1 00012	2815-507-2381	GASKET: oil filler H260B321 (14351)		EA		1				SEE	GRP	0106				
X1 00013		GASKET: oil filter JD382L309 (14351)		EA		1				SEE	GRP	0107				

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NO. & MFR. CODE USABLE ON CODE		(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS MAINT ALLOWANCE			(8) 30-DAY GS MAINT ALLOWANCE			(9) 1-YR ALW PER 100 EQUIP CNTG	(10) DEPOT MAINT ALW PER 100 EQUIP	(11) ILLUS- TRATION	
							(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(a) FIG NO.	(b) ITEM NO.
X1 00014	2805-353-8901	GASKET: oil filter drain plug W4B108 (14351)		EA		1				SEE	GRP	0106				
X1 00015		GASKET: oil pan J382B403 (14351)		EA		1				SEE	GRP	0106				
X1 00016		GASKET: oil pump cover N62L210 (14351)		EA		1				SEE	GRP	0106				
X1 00017		GASKET: oil pump housing JD382L211 (14351)		EA		1				SEE	GRP	0106				
X1 00018	5330-351-6356	GASKET: oil pump inlet C400L231 (14351)		EA		1				SEE	GRP	0106				
X1 00019	2815-313-7645	GASKET: water inlet elbow H260K203 (14351)		EA		1				SEE	GRP	0503				
X1 00020	2930-091-9078	GASKET: water pump H260K204 (14351)		EA		1				SEE	GRP	0504				
X1 00021	2910-646-6816	PACKING, PREFORED J382A200 (14351)		EA		8				SEE	GRP	0101				
X1 00022		SEAL, ADAPTER, FUEL INJECTOR PUMP X1583 (14351)		EA		1				SEE	GRP	0302				
X1 00023		SEAL, CRANKSHAFT: filter block H260B333 (14351)		EA		1				SEE	GRP	0101				
X1 00024		SEAL, CRANKSHAFT: filler block H260B340 (14351)		EA		1				SEE	GRP	0101				
X1 00025	2815-646-6267	SEAL, CRANKSHAFT rear H260B339 (14351)		EA		1				SEE	GRP	0102				
X1 00026	5330-641-0986	SEAL, PLAIN, ENCASED: crankshaft front 1600L214 (14351)		EA		1				SEE	GRP	0102				
X1 00027	2910-895-9083	SEAL, PLAIN, ENCASED: pump mtg X1587 (14351)		EA		1				SEE	GRP	0302				