

TM 5-4310-277-25P

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

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

COMPRESSOR, RECIPROCATING, AIR, 15 CFM, 175
PSI, TANK MOUNTED, GED. (CHAMPION PNEUMATIC
MODEL HGR5-8M-1) FSN 4310-880-0186
COMPRESSOR, RECIPROCATING, AIR, 15 CFM, 175
PSI, TRAILER MOUNTED, GED. (CHAMPION
PNEUMATIC MODEL BGR-5M-1) FSN 4310-852-1745

This copy is a reprint which includes current
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HEADQUARTERS
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Current as of 14 September 1968

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SECTION I

INTRODUCTION

1. Scope

This manual lists repair parts and special tools required for the performance of organizational, direct support, general support, and depot maintenance of the 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 minimum stockage allowance.

(2) Repair Parts-Section III. A list of repair parts authorized for the performance of maintenance at the organizational level.

(3) Special Tools, Test and Support Equipment-Section IV. Not Applicable.

(4) Repair Parts-Section V. A list of repair parts authorized for the performance of maintenance at the direct support, general support, and depot level.

(5) Special Tools, Test and Support Equipment-Section VI. Not Applicable.

(6) Federal Stock Number and Reference Number Index-Section VII. A list of Federal stock numbers followed by reference numbers, appearing in all the listings, 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 through VI.

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

Note. Common hardware items known to be readily available in Army supply channels will be assigned Maintenance codes only. Source codes, Recoverability codes, and Maintenance Allowance will not be assigned to this category.

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

	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 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.

Code	Explanation
C	Applied to repair parts authorized for local procurements. If not obtainable from local procurement, such repair parts will be requisitioned through normal supply channels with a supporting statement of nonavailability from local procurement.
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 CSU maintenance level. These assemblies will not be stocked above DSU and GSU 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
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. Indicates the Federal stock number for the item.

c. Description. Indicates the Federal item name and any additional description of the item required. The applicable five-digit Federal Supply Code for manufacturers, in parentheses, is followed by a part number or other reference number.

d. Unit of Issue. Indicates the unit used as a basis for issue, e.g., ea, pr, ft, yd, etc.

e. Quantity Incorporated in Unit Pack. Indicates the actual quantity contained in the unit pack.

f. Quantity Incorporated in Unit. Indicates the quantity of the item used in the functional group.

g. Fifteen-Day Organizational Maintenance Allowances.

(1) The allowance columns are divided into four 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 no entry in the allowance columns but will have in the description column a reference to the first appearance of the 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 organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column 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 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 12; for 140 equipments multiply 12 by 1.40 or 16.80 rounded off to 17 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. Thirty-Day DS/GS Maintenance Allowances.

(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 no entry in the allowance column, but will have in the description column a reference to the first appearance of the item. Items authorized for use as required but not for initial stock age are identified with an asterisk in the allowance column.

(2) The quantitative allowances for DS/CS 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.

i. One-Year Allowance Per 100 Equipment/Contingency Planning Purposes. Indicates opposite the first appearance of each item the total 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.

j. Depot Maintenance Allowance Per 100 Equipments. Indicates opposite the first ap-

pearance of each item the total quantity authorized for depot maintenance of 100 equipments. Subsequent appearances of the same item will have no entry in this column, but will have in the description column a reference to the first appearance of the item. Items authorized for use but not for initial stockage are identified with an asterisk in the allowance column.

k. Illustration.

(1) Figure Number. Indicates the figure number of the illustration in which the item is shown,

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

4. Special Information

a. Identification of the usable on codes of this publication are:

Code	Used on
A	Model HGR–8M–1, only
B	Model HGR–5M–1, only

Uncoded items u/o all models

b. Repair parts mortality has been based on 100 hours of operation per year.

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

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

TM 5-4130-277-15	Operator, Organizational, Direct support, General Support and Depot Maintenance Manual
TM 5-3805-203-24P	Organizational, DS and GS Maintenance Repair Parts and Special Tool Lists
TM 9-2330-251-14P	Operator, Organizational, DS, GS, Maintenance Instructions with Repair Parts and Special Tool Lists

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 or subgroup within which the repair part belongs. This will refer to a page in the parts listing.

(2) Second. The illustration column of the page refers to a figure number.

(3) Third. Locate the figure and identify the repair parts, noting the item number.

(4) Fourth. Refer back to the page of the parts listing. Find the item number in the illustration column that corresponds with the figure number.

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 alpha-numeric sequence cross-referenced to an index number,

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

6. Abbreviations

deg -----degree (s)
 id -----inside ----- inside diameter
 in. -----inch (s)
 lh -----cleft hand
 lg -----length
 mtg -----mounting
 No. -----number
 NPT -----National Pipe Threads

rh -----bright hand
 thd -----thread (s)
 thk -----thick (ness)
 u/o -----used on

7. Federal Supply Codes for Manufacturers

Code	Manufacturer
11568 ----	Champion Pneumatic Machinery Co.
24617 ----	General Motors Corp.
25472 ----	Goodrich B.F. Co., The
53477 ----	Schraders A. and Son Div. of Scovill Mfg. Co.
60038 ----	Timken Roller Bearing Co.
70925 ----	Bijur Lubricating Corp.
72219 ----	Consolidated Brass Co.
73540 ----	G and O Mfg. Co., The
75336 ----	Kingston, F.C. Co.
78349 ----	Smith Hinshman and Grylls Inc.
79150 ----	Victor Mfg. and Gasket Co.
79470 ----	Featherhead Co., The
80201 ----	Chicago Rawhide Mfg. Co.
81118 ----	Eaton Mfg. Co.
81336 ----	Chief of Engineers
86107 ----	Central Brass Mfg. Co.
88044 ----	Aeronautical Standards Group Dept of Navy and Air Force
92976 ----	Kaddis A.G. Screw Products Inc.
94849 ----	Albright Co.
96906 ----	Military Standards

8. Report of Equipment Publication Improvement

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

SECTION II
PRESCRIBED LOAD ALLOWANCE

(1) FEDERAL STOCK NUMBER	(1) DESCRIPTION	(8) QTY INC 1N PACK	(4) 15-DAY (A) 1-6	ORG. (B) 5-20	MAINT. (C) 21-50	ALW (D) 51-100
	GROUP 50-PNEUMATIC EQUIPMENT 5007-COMPRESSOR DRIVE					
3030-854-7351	BELT, V, MATCHED SET (25472) 4L710-2	2			2	2
4310-065-0338	5008-AIR INTAKE PACKING PREFORMED (11568) OR111	1			2	2

(1)	(2)	(3)			(4)	(5)	(6)	(7)				(8)	
SMR CODE ----- INDEX NO	FEDERAL STOCK NUMBER	DESCRIPTION				QTY INC UNIT PACK	QTY INC UNIT	15-DAY ORGANIZATIONAL MAINTENANCE ALW				ILLUS- TRATION (A) (B)	
		REFERENCE NO. & MFR. CODE	USABLE ON CODE	UNIT OF ISSUE				(A)	(B)	(C)	(D)	FIG. NO	ITEM NO.
00001		SECTION III - REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE						1-5	6-20	21-50	51-100		
00002		GROUP 01 - ENGINE											
00003		0100 - ENGINE ASSEMBLY											
0 00004	5306-225-8499	BOLT, MACHINE: ENGINE MTG, 5/16-18 THD SIZE, 1 IN. LG (96906) MS35295-34		EA		4						1	6
P O T 00005	2805-068-7512	ENGINE, GASOLINE (81336) 4A032-11		EA		1	*	*	*	*		1	1
X20 00006		EXTENSION: ENGINE OIL DRAIN (11568) M724	A	EA		1							
X1 00007	2805-690-8866	PACKING, PREFORMED: ENGINE OIL DRAIN (11568) OR11	A	EA		1							
0 00008		NUT, PLAIN, HEXAGON: ENGINE MTG, 5/16-18 THD SIZE (11568) M936A		EA		4						1	8
0 00009	5310-209-0110	WASHER, FLAT: ENGINE MTG, 5/16 IN. SCREW SIZE		EA		4						1	9
0 00010	5310-514-6674	WASHER, LOCK: ENGINE MTG, 5/16 IN. SCREW SIZE (11568) M911A		EA		4						1	7
00011		0102 - CRANKSHAFT											
X20 00012	2930-014-6993	BUSHING, SLEEVE: V PULLEY (11568) M721		EA		1						5	16
X20 00013		PULLEY, V: COMPRESSOR FLYWHEEL DRIVE (11568) M722		EA		1						5	17
0 00014	5305-225-3839	SCREW, CAP, HEXAGON HEAD: BUSHING MTG TO PULLEY, 1/4-20 THD SIZE, 1 IN. LG (96906) MS90725-8		EA		2						5	14