

TECHNICAL MANUAL

**ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL
SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST (INCLUDING DEPOT
MAINTENANCE REPAIR PARTS)**

**COMPRESSOR, AIR, RECIPROCATING,
ELECTRIC MOTOR DRIVEN, RECEIVER MOUNTED,
5 CFM AT 175 PSI
MODEL NO. HR2-6M-1
NSN 4310-01-040-7171
(CHAMPION PNEUMATIC MACHINERY COMPANY)**

**HEADQUARTERS, DEPARTMENT OF THE ARMY
15 JANUARY 1979**

TECHNICAL MANUAL

No. 5-4310-356-24P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 15 January 1979**ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT
MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (INCLUDING
DEPOT MAINTENANCE REPAIR PARTS)****COMPRESSOR, AIR, RECIPROCATING,
ELECTRIC MOTOR DRIVEN, RECEIVER MOUNTED,
5 CFM AT 175 PSI
CHAMPION PNEUMATIC MACHINERY COMPANY
MODEL NO. HR2-6M-1
NSN 4310-01-040-7171****Current as of 3 November 1978****REPORTING OF ERRORS**

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 (Test) located In the back of this manual, direct to Commander, US Army Troop Support and Aviation Materiel Readiness Command, ATTN: DRSTS-MTPS, 4300 Goodfellow Blvd, St. Louis, Missouri 63120 A reply will be furnished to you.

		Page	Illus Figure
SECTION	I. Introduction	1-1	
	II. Repair Parts List	2-1	
Group	01. Belt guard assembly	2-1	1
	02. Electric motor	2-2	2
	Switch assembly, pressure	2-3	3
	Starter assembly, magnetic	2-5	4
	03. Air compressor assembly	2-7	5
	Crankcase	2-9	6
	Valve assembly	2-10	7
	04. Air receiver tank and parts	2-11	8
	Check valve	2-12	9
SECTION	III. Special Tools List (Not Applicable)	3-1	
	IV. National Stock Number and Reference Number Index	4-1	

i/(ii blank)

Section I INTRODUCTION

1. Scope.

This manual lists repair parts and special tools required for performance of organizational, direct support, and general support maintenance of the air compressor.

2. General.

a. Section II. Repair Parts List. A list of repair parts authorized 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 numerical sequence, with the parts in each group listed in figure and item number sequence.

b. Section III. Special Tools List. (Not applicable).

c. Section IV. National Stock Number and Part Number Index. A list, in ascending numerical sequence, of all National stock numbers appearing. In the listings, followed by a list, in alpha-numeric sequence, of all part numbers appearing in the listings. National stock number and part numbers are cross-referenced to each illustration figure and item number appearance.

3. Explanation of Columns.

The following provides an explanation of columns found in the tabular listings.

a. Illustration. This column is divided as follows:

(1) Figure number. Indicates the figure number

of the illustration in which the item is shown.

(2) Item number. The number used to identify

each item called out in the illustration.

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

(1) Source code. Source codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows.

<u>Code</u>	<u>Definition</u>
PA	Item procured and stocked for anticipated or known usage.
PB	Item procured and stocked for insurance purpose because essentiality dictates that a minimum quantity be available in the supply systems.
PC	Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.
PD	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.
PE	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.

<u>Code</u>	<u>Definition</u>
PF	Support equipment which will not be stocked but which will be centrally procured on demand.
PG	Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later time.
KD	An item of a depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul or repair.
KF	An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or intermediate levels of maintenance.
KB	Item included in both a depot overhaul/repair kit and a maintenance kit.
MO	Item to be manufactured or fabricated at organizational level.
MF	Item to be manufactured or fabricated at the direct support maintenance level.
MH	Item to be manufactured or fabricated at the general support maintenance level.
MD	Item to be manufactured or fabricated at the depot maintenance level.
AO	Item to be assembled at organizational level.
AF	Item to be assembled at direct support maintenance level.
AH	Item to be assembled at general support maintenance level.
AD	Item to be assembled at depot maintenance level.
XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB	Item is not procured or stocked. If not available through salvage, requisition.
XD	A support item that is not stocked. When required, item will be procured through normal supply channels.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XA or XD.

(2) Maintenance code. Maintenance codes are assigned to indicate the levels of maintenance authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the Uniform Code format as follows:

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

<u>Code</u>	<u>Application/Explanation</u>
C	Crew or operator maintenance performed within organizational maintenance.
O	Support item is removed, replaced, used at the organizational level.
F	Support item is removed, replaced, used at the direct support level.
H	Support item is removed, replaced, used at the general support level.
D	Support items that are removed, replaced, used at depot, mobile depot, specialized repair activity only.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

<u>Code</u>	<u>Application/Explanation</u>
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F	The lowest maintenance level capable of complete repair of the support item is the direct support level.
H	The lowest maintenance level capable of complete repair of the support item is the general support level.
D	The lowest maintenance level capable of complete repair of the support item is the depot level.
L	Repair restricted to designated specialized repair activity.
Z	Nonreparable. No repair is authorized.
B	No repair is authorized. The item may be re-conditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the maintenance of this item.

(3) Recoverability code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

<u>Recoverability Code</u>	<u>Definition</u>
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
O	Reparable item. When uneconomically reparable, condemn and dispose at organizational level.
F	Reparable item. When uneconomically reparable, condemn and dispose at the direct support level.
H	Reparable item. When uneconomically reparable, condemn and dispose at the general support level.

<u>Recoverability Code</u>	<u>Definition</u>
D	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
L	Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.
A	Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material or hazardous material). Refer to appropriate manuals/ directives for specific instructions.

c. National Stock Number. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

d. Part Number. Indicates the primary number used by manufacturer which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item. Items that are included in kits and sets are listed below the name of the kit or set with the quantity of each item in the kit or set indicated in the quantity incorporated in unit column. When the part to be used differs between serial numbers of the same model, the effective serial numbers are shown as the last line of the description. In the Special Tools List, the initial basis of issue (BOI) appears as the last line in the entry for each special tool, TMDE, and support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased accordingly.

g. Unit of measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc.). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. Quantity incorporated in unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable, (e.g., shims, spacers, etc.).

4. Special Information.

a. Detailed assembly instructions for items source coded to be assembled are found in TM 5-4310-356-14. Assembly components are listed immediately following the item to be assembled.

b. The following publications pertain to the air compressor and its components:

TM 5-4310-356-14 Operator, Organizational,
Direct Support and General
Support Maintenance Manual
LO 5-4310-356-12 Lubrication Order

5. How to Locate Repair Parts.

a. When National Stock Number or Part Number is Unknown:

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

(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 figure and item number noted on the illustration.

b. When National Stock Number or Part Number Is Known.

(1) First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number. This Index is in ascending NSN sequence followed by a list of part numbers in ascending alphanumeric sequence, cross-referenced to the illustration figure number and item number.

(2) Second. After finding the figure and item number, locate the figure and item number in the repair parts list.

6. Abbreviations.

The abbreviations used in this manual are standard abbreviations as listed in MIL-STD-12C.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
						SECTION II - REPAIR PARTS LIST GROUP 01 - BELT GUARD ASSEMBLY		
1	1	PAOZZ	5310-00-761-6882	M939A	1156B	NUT, HEX, 1/4-20.....	EA	4
1	2	PAOZZ	5310-00-582-5965	M919A	11568	WASHER, LOCK, ET, 1/4 IN.	EA	4
1	3	PAOZZ	5305-00-068-0506	M696	11568	SCREW, CAP, HEX, 1/4-20x3/4 IN.	EA	4
1	4	PAOZZ	5310-00-823-8804	M905A	11568	WASHER, FLAT, 1/4 IN.	EA	4
1	5	PAOZZ	5310-00-880-7744	M935A	11568	NUT, HEX, 5/16-18.....	EA	3
1	6	PAOZZ	5310-00407-9566	M913A	11568	WASHER, LOCK, SPLIT, 5/16 IN.	EA	3
1	7	PAOZZ	5310-00-0814219	M912A	11568	WASHER, FLAT, 5/16 IN.	EA	4
1	8	XBOZZ		M855	1156B	BRACKET, BELT GUARD.....	EA	1
1	9	XBOZZ		M856	11568	BRACKET, BELT GUARD.....	EA	1
1	10	XBOZZ		M854	11568	BRACKET, BELT GUARD.....	EA	1
1	11	XBOZZ		Z307-1	11568	GUARD, BELT.....	EA	1
1	12	XBOXX		Z307	11568	GUARD ASSEMBLY, BELT.....	EA	1
1	13	PAOZZ		A63	24161	V-BELT, MATCHED SET.....	EA	1
						5		