

TECHNICAL MANUAL

**DIRECT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND
SPECIAL TOOLS LISTS (INCLUDING DEPOT MAINTENANCE REPAIR
PARTS AND SPECIAL TOOLS)**

COMPRESSOR, RECIPROCATING, AIR: GASOLINE ENGINE DRIVEN;

15 CFM; 175 PSI; RECEIVER MOUNTED

(CHAMPION PNEUMATIC MODEL OEG-458-ENG-1) FSN 4310-861-9818;

RECEIVER MOUNTED (CHAMPION PNEUMATIC MODEL OEG-458-ENG-2)

FSN 4310-075-5251;

RECEIVER MOUNTED (CHAMPION PNEUMATIC MODEL OEG-458-ENG-3)

FSN 4310-965-1197;

BASE MOUNTED FOR MOUNTING ON ORD. TRAILER, WINTERIZED

(CHAMPION PNEUMATIC MODEL BMW-452-ENG) FSN 4310-861-9819;

BASE MOUNTED, WINTERIZED (CHAMPION PNEUMATIC MODEL

BMW-452-ENG-1) FSN 4310-088-5342

HEADQUARTERS, DEPARTMENT OF THE ARMY

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HEADQUARTERS
DEPARTMENT OF THE ARMY
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SECTION I. INTRODUCTION

1. Scope

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

b. Repair parts listed represent those authorized for use at indicated maintenance levels and will be requisitioned on an "as required" basis until stockage is justified by demand in accordance with AR 710-2.

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 group sequence. Repair parts kits and sets are listed separately at the end of 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 alphanumeric sequence, cross-referenced to the illustration figure number and item 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 levels.
P2	Repair parts, special tools, and test equipment which are procured and stocked for insurance purposes because combat or military essentiality 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 levels.
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 level requiring such repair parts will attempt to obtain the parts through cannibalization or salvage, if not obtainable 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 the DS and GS level or returned to depot supply level.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded X1 and aircraft support items as restricted by AR 700-42.

(2) *Maintenance code.* Indicates the lowest level of Maintenance authorized to install the listed item. Repair parts and special tools assigned maintenance code “C” may be stocked at the operator level of maintenance when authorized by the unit commander. 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 evacuated to the depot for overhaul or final disposition. Communication-Electronics and missile support items will be repaired/overhauled only at depots.
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 sub-assemblies 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 manufacturers 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 Allowance.* Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

g. *Depot Maintenance Allowance Per 100 Equipments.* Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

h. *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. Identifications of the useable on codes included in the description column of this publication are:

Code	Used on
A	Model BMW-452-ENG
B	Model BMW-452-ENG-1
C	Model OEG-458-ENG-1
D	Model OEG-458-ENG-2
E	Model OEG-458-ENG-3

b. Parts which require manufacture or

assembly at a level higher than that authorized for installation will indicate in the source column the higher level.

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

LO 5-2805-203-12	Lubrication Order
LO 5-4310-227-15	Lubrication Order
TM 5-2805-203-14	Organizational, DS and GS Maintenance Manual
TM 5-2805-203-24P	Organizational, DS and GS Repair Parts and Special Tools List
TM 5-4310-227-15	Organizational, DS, GS, and Depot Maintenance 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, ref-

erence 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. Parts which are not illustrated will reference to a figure number but will not show an item 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 the figures.

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

(3) Using the applicable figure and page number, locate the pertinent FSN, reference number, or part number in the repair parts listing.

6. Abbreviations

Abbreviation	Explanation
AWG	American Wire Gage
cl	coil
dia	diameter
ea	each
ft	foot (feet)
gl	gallon (s)
id	inside diameter
in	inch (es)
lh	left hand
lg	long (length)
mtg	mounting
no	number
od	outside diameter
rh	right hand
sh	sheet (s)
tad	thread (s) (cd)
thk	thick (ness)
w	wide (width)
w/	with

7. Federal Supply Codes for Manufacturers

Code	Manufacturer
00000	Ordnance Corps
00779	Amp. Inc.
04255	Weatherhead Co., The
08070	True-Flate Div.
08288	Military Standards
09367	Allis-Chalmers Mfg. Co.
10137	Szemco Inc.
11568	Champion Pneumatic Machinery Co.
14959	Crane Co.
19728	Prestolite Co., The
25472	Goodrich, B.F. Co., The
26403	Grinnell Co., Inc.
30327	Imperial-Eastman Corp.
30399	Independent Lock Co.
48816	Pressed Steel Tank Co.
57733	Stewart-Warner Corp.