

TECHNICAL MANUAL

**ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND
SPECIAL TOOLS LIST**

**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**

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458-EUG-3) FSN 4310 -965-1 197; 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

Current as of 20 June 1972

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* This manual together with TM 5-4310-227-34P 11 July 1972 supersedes TM 5-4310-227-25P, 10 January 1967, including changes.

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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 organizational maintenance of the air compressor.

b. Repair parts listed represent those authorized for use at the organizational level 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 at the organizational level for the performance of maintenance, 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.* 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 alpha-numeric 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 section II.

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

(1) *Source code.* Indicates the source for the listed item. Source codes are:

Code	Explanation
P	Repair parts, special tools, and test equipment

Code	Explanation
	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. Those 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	Crew or Operator maintenance
O	Organizational 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 repairable at direct and general support maintenance levels. When the item is no longer economically repairable, it is normally disposed of at the GS level. When supply considerations dictate, some of these 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, and test equipment and assemblies which are economically repairable 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 repairable, they will be evacuated to a depot for evaluation and analysis before final disposition.
T	High 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, special tools and test equipment specifically selected for salvage by reclamation units because of their 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 subassemblies 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. Re-

pair parts 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. *15-Day Organizational Maintenance.* Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

g. *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.* Indicates the callout number used to reference the item on 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 compressor and its components:

LO5-2805-203-12	Lubrication Order
LO5-4310-227-15	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

d. The illustrations in this manual are identical to the applicable illustrations