TECHNICAL MANUAL

ORGANIZATIONAL AND DIRECT SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST

WELDING SET, ARC, INERT GAS SHIELDED, WATER COOLED,
ALUMINUM WELDING, GENERAL PURPOSE (AIRCO MODEL 23511209)
FSN 3431-731-4163

HEADQUARTERS, DEPARTMENT OF THE ARMY
3 DECEMBER 1970
ORGANIZATIONAL AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND
SPECIAL TOOLS LISTS

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Current as of 18 November 1970

Section I. INTRODUCTION

Hoses and Cables
Pressure Regulator and Cylinder
Pressure regulator and gas cylinder
Contactor
Water Circulation Unit
Motor
Pump
Motor
Cover and tank
Gun Assembly
Wire guide fittings, flexible shaft and casing assembly
Drive roll housing assembly
Pull gun
Control
Electrical compressor assembly
Motor speed control assembly
Indicator light and relay and coil assembly
Terminals, bushings and cabinet
Wire Feeder
Cover
Brake reel
Reel deck assembly
Motor
Drive roll assembly
Carriage assembly connectors and compartment cover
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Section VI. SPECIAL TOOLS, TEST AND SUPPORT EQUIPMENT FOR DS MAINTENANCE (Not Applicable)

VII. FEDERAL STOCK NUMBER AND REFERENCE NUMBER INDEX
1. Scope
This manual lists repair parts, special tools, test and support equipment required for the performance of organizational and direct support maintenance of the welding set.

2. General
This Repair Parts and Special Tools List is divided into the following sections:
   a. Prescribed Load Allowance (PLA) - Section II
   A composite listing of repair parts, special tools, test and support equipment having quantitative allowances for initial stockage at the organizational level.
   b. Repair Parts - Section III. A list of repair parts authorized for the performance of maintenance at the organizational level in figure and item number sequence.
   c. Special Tools, Test and Support Equipment - Section IV. (Not Applicable).
   d. Repair Parts - Section V. A list of repair parts authorized for the performance of maintenance at the direct support level in figure and item number sequence.
   e. Special Tools, Test and Support Equipment - Section VI. (Not Applicable).
   f. Federal Stock Number and Reference Number Index - Section VII. A list of Federal stock numbers in ascending numerical sequence, followed by a list of reference numbers appearing in all of the listings in alpha-numeric sequence, cross-referenced to the illustration figure number and item number.

   Note: Items not illustrated are cross-referenced to assembly group number.

3. Explanation of Columns
The following provides an explanation of columns in the tabular lists in Sections II thru IV.
   a. Source, Maintenance, and Recoverability Codes (SMR).

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Repair Parts, Special Tools and Test Equipment supplied from the GSA/DSA or Army supply system, and authorized for use at indicated maintenance categories.</td>
</tr>
<tr>
<td>M</td>
<td>Repair parts which are not procured or stocked, but are to be manufactured in indicated maintenance levels.</td>
</tr>
<tr>
<td>A</td>
<td>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,</td>
</tr>
</tbody>
</table>

   are procured and stocked separately and can be assembled to form the required assembly at indicated maintenance categories.

<table>
<thead>
<tr>
<th>Code</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Parts and assemblies which are not procured or stocked and the mortality of which normally is 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.</td>
</tr>
<tr>
<td>X1</td>
<td>Repair parts which are not procured or stocked. The requirement of such items will be filled by use of the next higher assembly or component.</td>
</tr>
<tr>
<td>X2</td>
<td>Repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain them through cannibalization. Where such repair parts are not obtainable through cannibalization, requirements will be requisitioned, with accompanying justification, through normal supply channels.</td>
</tr>
<tr>
<td>C</td>
<td>Repair parts authorized for local procurement. Where such repair parts are not obtainable from local procurement, requirements will be requisitioned through normal supply channels accompanied by a supporting statement of nonavailability from local procurement.</td>
</tr>
<tr>
<td>G</td>
<td>Major assemblies which are procured with PEMA funds for initial issue only as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above GS and DS level or returned to depot supply level.</td>
</tr>
</tbody>
</table>

   (2) Maintenance code indicates the lowest category of maintenance authorized to install the listed item. The maintenance codes are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>Organizational maintenance</td>
</tr>
<tr>
<td>F</td>
<td>Direct support maintenance</td>
</tr>
</tbody>
</table>

   (3) Recoverability code indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>Applied to Repair parts (assemblies and components) which are considered economically reparable at direct and general support maintenance levels. When the maintenance capability to repair these items does not exist, they are 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.</td>
</tr>
<tr>
<td>S</td>
<td>Repair parts 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.</td>
</tr>
<tr>
<td>T</td>
<td>High dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts are normally repaired or overhauled at depot maintenance activities.</td>
</tr>
<tr>
<td>U</td>
<td>Repair parts specifically selected for salvage by recla-</td>
</tr>
</tbody>
</table>