

**TECHNICAL MANUAL**

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

**VOLTMETER, ELECTRONIC AN/USM-98A  
(NSN 6625-00-753-2115)**

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**HEADQUARTERS, DEPARTMENT OF THE ARMY  
30 SEPTEMBER 1980**



TECHNICAL MANUAL }  
 No. 11-6625-599-20P-1 }

HEADQUARTERS  
 DEPARTMENT OF THE ARMY  
 WASHINGTON, DC, 30 September 1980

**ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS  
 FOR  
 VOLTMETER, ELECTRONIC AN/USM-98A  
 (NSN 6625-00-753-2115)**

*Current as of 4 March 1980*

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

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 located in back of this manual direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703.

In either case, a reply will be furnished direct to you.

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\* This manual supersedes so much of TM 11-6625-559-12, 24 November 1964, as pertains to repair parts and special tools lists.



## SECTION I

### INTRODUCTION

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#### 1. Scope

This manual lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of organizational maintenance of AN/USM-98A. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

#### 2. General

This Repair Parts and Special Tools List is divided into the following sections:

*a. Section II. Repair Parts List.* A list of spares and 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 numeric 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 National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list, in alphameric sequence, of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

#### 3. Explanation of Columns

*a. 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.* The number used to identify item called out in the illustration.

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

(1) *Source code.* Source codes 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:

| <i>Code</i> | <i>Definition</i>   |
|-------------|---|
| PA          | Item procured and stocked for anticipated or known usage. |

#### NOTE

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

(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 SMR 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:

| <i>Code</i> | <i>Application/Explanation</i>                                       |
|-------------|--|
| O           | Support item is removed, replaced, used at the organizational level. |

(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:

| <i>Code</i> | <i>Appliation/Explanation</i>          |
|-------------|--|
| Z           | Nonreparable. No repair is authorized. |

(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:

| <i>Recoverability codes</i> | <i>Definition</i>   |
|-----------------------------|---|
| Z—Nonreparable item.        | When unserviceable, condemn and dispose at the level indicated in position 3. |

*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 the manufacturer (individual, company, firm, corporation, or Government activity), 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.

*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.

**4. Special Information,**

*a.* The following publication pertains to the AN/USM-98A and its components:

TM 11-6625-599-12, Voltmeters, Electronic AN/USM-98A, and AN/USM-98B.

*b.* The illustrations in this manual are identical to those published in TM 11-6625-599-40P-1. Only those parts assigned the third position SMR maintenance code "C" or "O" are listed in the tabular listing; therefore, there may be a break in the item number sequence. Only illustrations containing organizational authorized items appear in this manual.

**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 item 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 item belongs.

(3) *Third.* Identify the item on the illustration and note the illustration figure and item number of the item.

(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 or part number. This index is in NIIN sequence followed by a list of part numbers in alphameric 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**

Not applicable.

(Next printed page is 4)

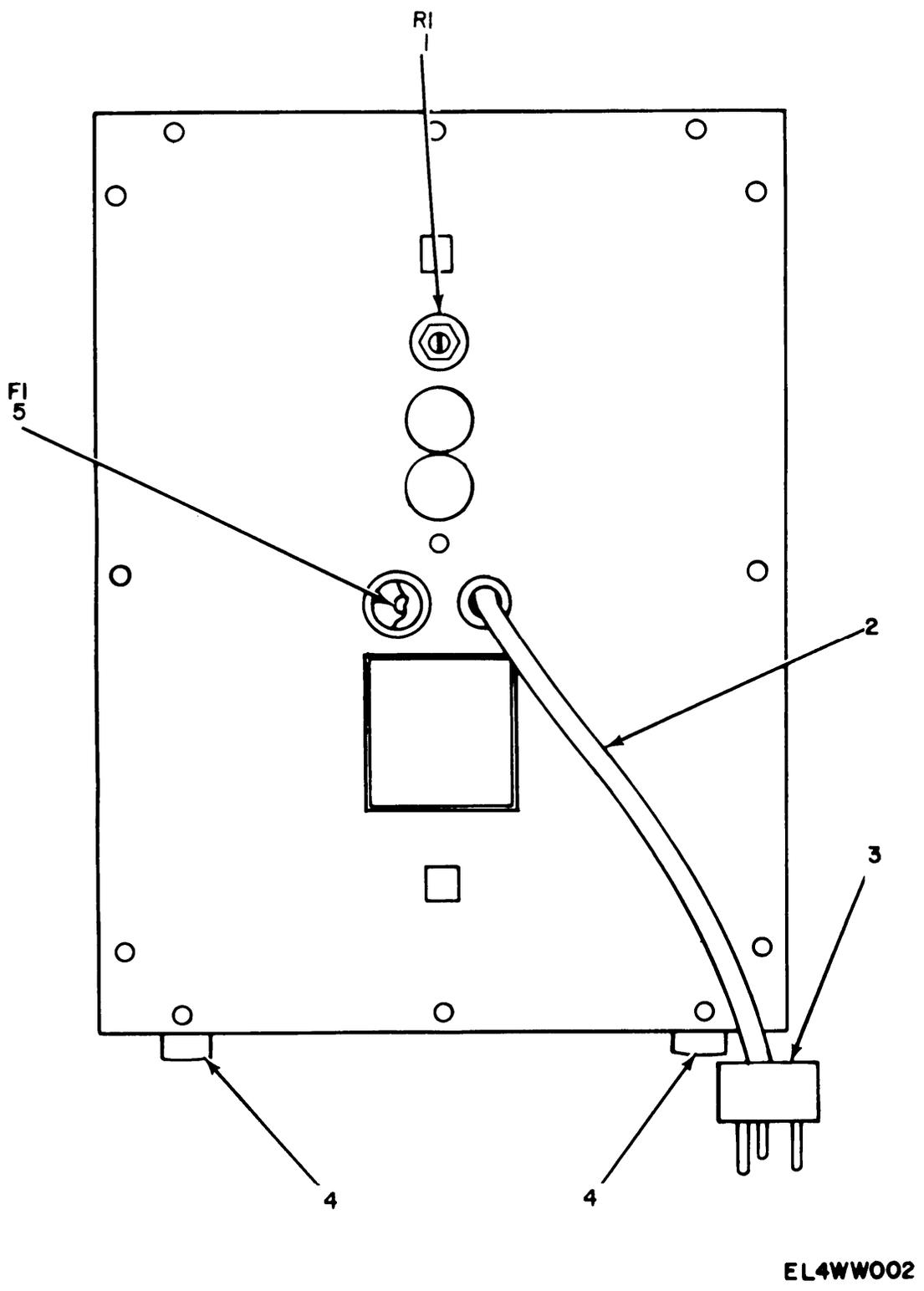


Figure 1. Voltmeter, Electronic ME-161A/U, Rear View.

| SECTION II   |      |       |                  | TM11-6625-599-20P-1 |   |                |     |     |      |
|--------------|------|-------|------------------|---------------------|---|----------------|-----|-----|------|
| (1)          | (2)  | (3)   | (4)              | (5)                 | (6)                                       | (7)            | (8) |     |      |
| ILLUSTRATION |      |       |                  |                     |   |                |     |     |      |
| (A)          | (B)  | SMR   | NATIONAL         | PART                | DESCRIPTION                               |                |     |     |      |
| FIG          | ITEM | CODE  | STOCK            | NUMBER              | FSCM                                      | USABLE ON CODE | U/M | INC | IN   |
| NO.          | NO.  |       | NUMBER           |                     |   |                |     | IN  | UNIT |
|              |      |       |                  |                     | GROUP 01 VOLTMETER, ELECTRONIC, ME-161A/U |                |     |     |      |
| 1            | 5    | PAOZZ | 5920-00-199-9498 | 6900-15             | 28569 FUSE, CARTRIDGE OR                  |                |     | EA  | 1    |
| 1            | 5    | PAOZZ | 5920-00-131-9816 | 10300253            | 18876 FUSE, CARTRIDGE                     |                |     | EA  | 1    |

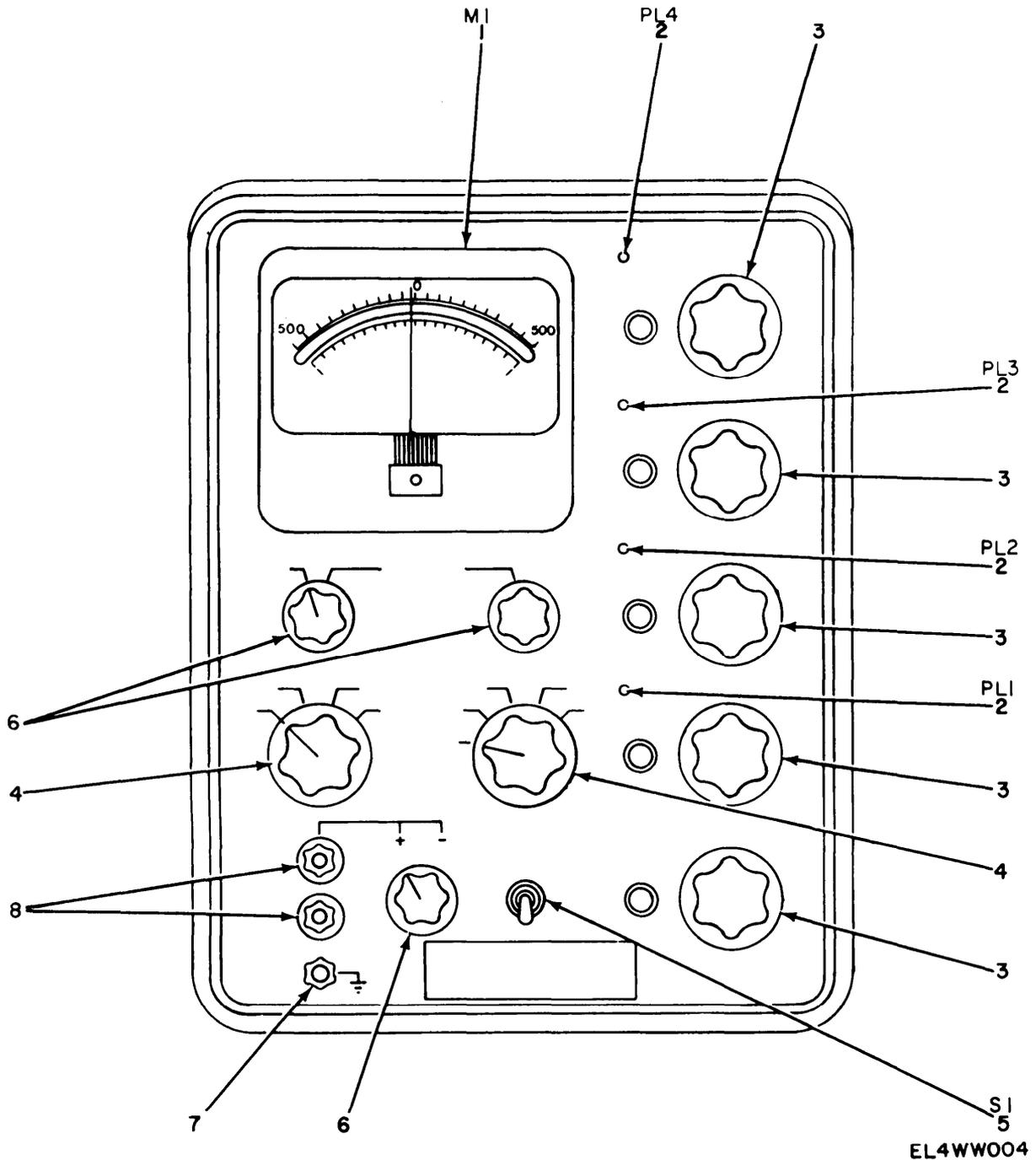


Figure 2. Voltmeter, Electronic, ME-161A/U, Panel Assembly, Front View.

| SECTION II   |      | TM11-6625-599-20P-1 |                   |            |             |                    |      | (7) | (8)  |
|--------------|------|---------------------|-------------------|------------|-------------|--------------------|------|-----|------|
| (1)          | (2)  | (3)                 | (4)               | (5)        | (6)         |                    |      | (7) | (8)  |
| ILLUSTRATION |      |                     |                   |            |             |                    |      |     |      |
| (A)          | (B)  | NATIONAL            |                   |            | DESCRIPTION |                    |      |     | QTY  |
| FIG          | ITEM | STOCK               | PART              |            |             |                    |      |     | INC  |
| NO.          | NO.  | CODE                | NUMBER            | NUMBER     | FSCM        | USABLE ON          | CODE | U/M | IN   |
|              |      |                     |                   |            |             |                    |      |     | UNIT |
| 2            | 2    | PAOZZ               | 6240-00-155--8706 | 47         | 08806       | LAMP, INCANDESCENT |      | EA  | 4    |
| 2            | 3    | PAOZZ               | 5355-00-064-1035  | S-642-3-BB | 75376       | KNOB               |      | EA  | 5    |
| 2            | 4    | PAOZZ               | 5355-00-688-9156  | S-653-BB-L | 75376       | KNOB               |      | EA  | 2    |
| 2            | 6    | PAOZZ               | 5355-00-720-5087  | S-647-3L   | 75376       | KNOB               |      | EA  | 3    |



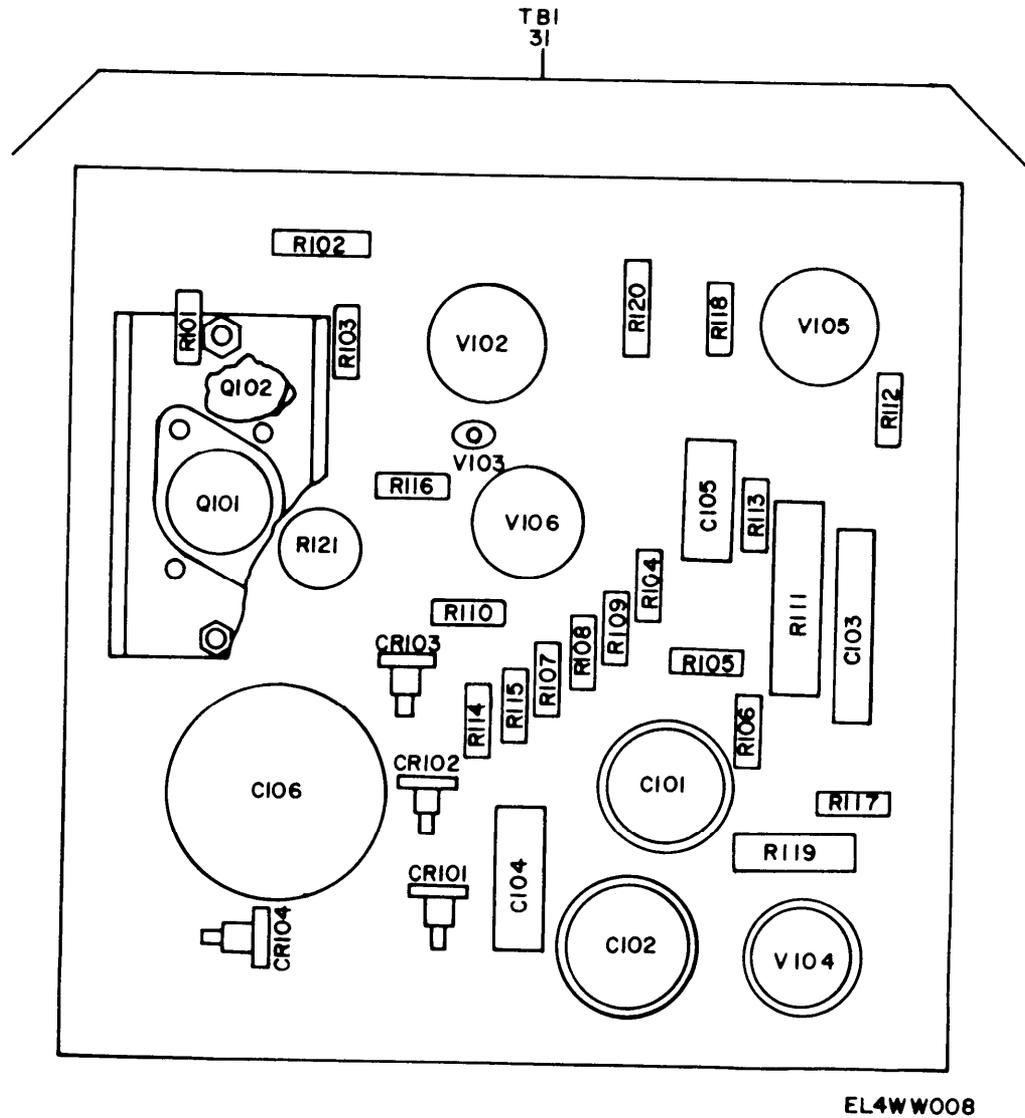


Figure 3. Voltmeter, Electronic, ME-161A/U, Circuit Board Assembly 801B-523 (Sheet 1 of 2).

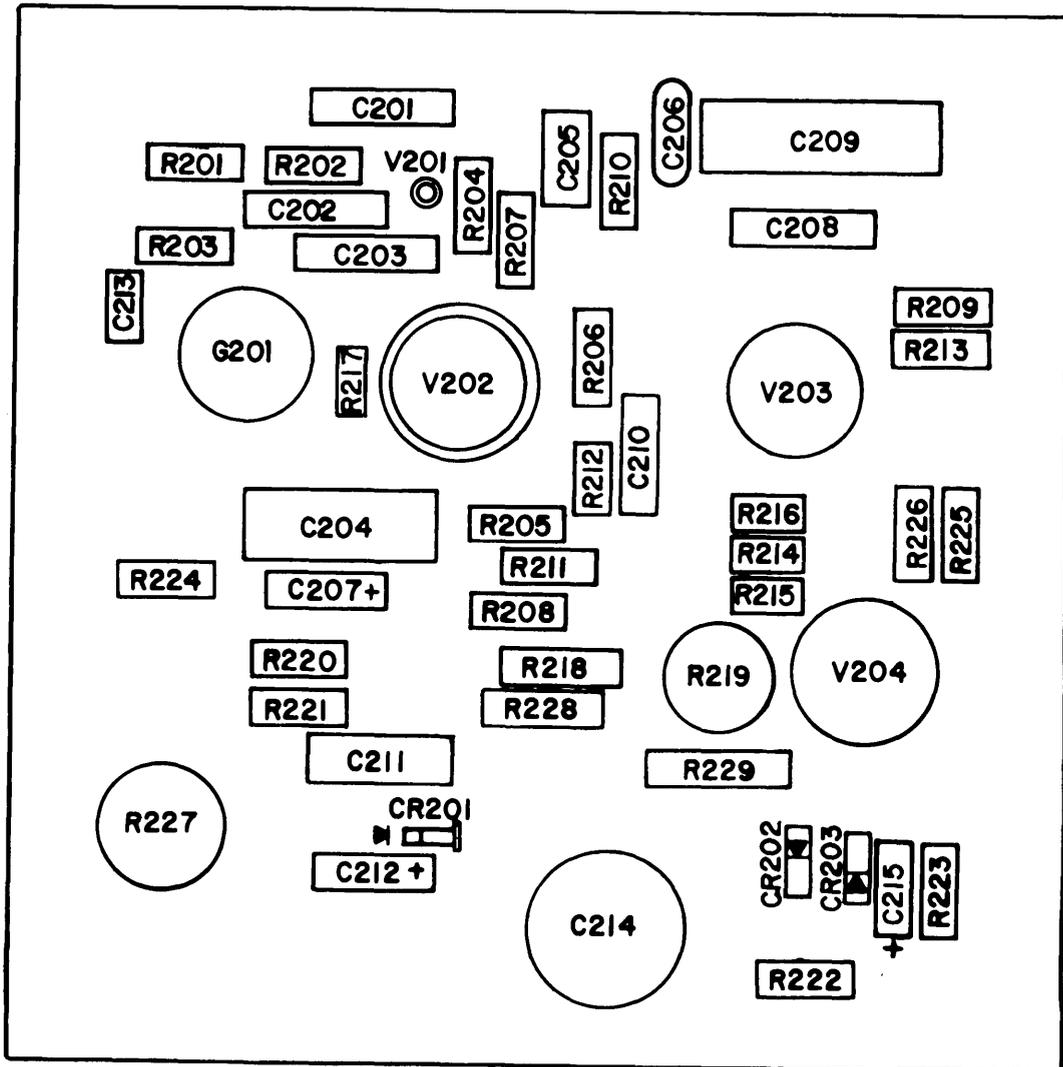
| REF. DES. | ITEM NO. | REF. DES. | ITEM NO. |
|-----------|----------|-----------|----------|
| C101      | 1        | R109      | 16       |
| C102      | 1        | R110      | 17       |
| C103      | 2        | R111      | 18       |
| C104      | 3        | R112      | 19       |
| C105      | 4        | R113      | 20       |
| C106      | 5        | R114      | 12       |
| CR101     | 6        | R115      | 21       |
| CR102     | 6        | R116      | 22       |
| CR103     | 6        | R117      | 23       |
| CR104     | 6        | R118      | 20       |
| Q101      | 7        | R119      | 24       |
| Q102      | 8        | R120      | 25       |
| R101      | 9        | R121      | 26       |
| R102      | 10       | V102      | 27       |
| R103      | 11       | V103      | 28       |
| R104      | 12       | V104      | 29       |
| R105      | 13       | V105      | 30       |
| R106      | 13       | V106      | 30       |
| R107      | 14       |           |          |
| R108      | 15       |           |          |

EL4WW009

Figure 3. Voltmeter, Electronic, ME-161A/U, Circuit Board Assembly 801B-523 (Sheet 2 of 2).

| SECTION II   |      | TM11-6625-599-20P-1 |                  |          |             |                |     |      |   |
|--------------|------|---------------------|------------------|----------|-------------|----------------|-----|------|---|
| (1)          | (2)  | (3)                 | (4)              | (5)      | (6)         |                | (7) | (8)  |   |
| ILLUSTRATION |      |                     |                  |          |             |                |     |      |   |
| (A)          | (B)  | NATIONAL            |                  |          | DESCRIPTION |                |     | QTY  |   |
| FIG          | ITEM | STOCK               | PART             |          |             |                |     | INC  |   |
| NO.          | NO.  | CODE                | NUMBER           | NUMBER   | FSCM        | USABLE ON CODE | U/M | IN   |   |
|              |      |                     |                  |          |             |                |     | UNIT |   |
| 3            | 27   | PAOZZ               | 5960-00-852-0235 | 6BQ5     | 81349       | ELECTRON TUBE  |     | EA   | 1 |
| 3            | 29   | PAOZZ               | 5960-00-836-6273 | OG3-85A2 | 73445       | ELECTRON TUBE  |     | EA   | 1 |
| 3            | 30   | PAOZZ               | 5960-00-827-8782 | 12AX7-WA | 81349       | ELECTRON TUBE  |     | EA   | 2 |





EL4WWOIO

Figure 4. Voltmeter, Electronic ME-161A/U, Circuit Board Assembly, (Sheet 1 of 2).

| REF. DES. | ITEM NO. |
|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| C201      | 1        | C214      | 10       | R208      | 19       | R221      | 28       |
| C202      | 1        | C215      | 11       | R209      | 14       | R222      | 29       |
| C203      | 2        | CR201     | 12       | R210      | 14       | R223      | 29       |
| C204      | 3        | CR202     | 12       | R211      | 20       | R224      | 30       |
| C205      | 4        | CR203     | 12       | R212      | 21       | R225      | 22       |
| C206      | 5        | G201      | 13       | R213      | 22       | R226      | 22       |
| C207      | 6        | R201      | 14       | R214      | 14       | R227      | 31       |
| C208      | 1        | R202      | 14       | R215      | 23       | R228      | 32       |
| C209      | 3        | R203      | 14       | R216      | 24       | R229      | 32       |
| C210      | 1        | R204      | 15       | R217      | 25       | V201      | 33       |
| C211      | 7        | R205      | 16       | R218      | 26       | V202      | 34       |
| C212      | 8        | R206      | 17       | R219      | 27       | V203      | 35       |
| C213      | 9        | R207      | 18       | R220      | 28       | V204      | 36       |

EL4WW011

Figure 4. Voltmeter, Electronic, ME-161A/U, Circuit Board Assembly, (Sheet 2 of 2).

| SECTION II   |      | TM11-6625-599-20P-1 |                  |           |             |                |     |      |  |
|--------------|------|---------------------|------------------|-----------|-------------|----------------|-----|------|--|
| -1           | -2   | -3                  | -4               | -5        | -6          |                | -7  | -8   |  |
| ILLUSTRATION |      |                     |                  |           |             |                |     |      |  |
| (A)          | (B)  | NATIONAL            |                  |           | DESCRIPTION |                |     | QTY  |  |
| FIG          | ITEM | STOCK               | PART             |           |             |                |     | INC  |  |
| NO.          | NO.  | NUMBER              | NUMBER           | FSCM      |             | USABLE ON CODE | U/M | IN   |  |
|              |      |                     |                  |           |             |                |     | UNIT |  |
| 4            | 34   | PAOZZ               | 5960-00-061-1186 | 6267-EP86 | 73445       | TUBE,ELECTRON  | EA  | 1    |  |
| 4            | 35   | PAOZZ               | 5960-00-834-4045 | 6AW8A     | 81349       | ELECTRON TUBE  | EA  | 1    |  |
| 4            | 36   | PAOZZ               | 5960-00-503-4880 | 0A2WA     | 81349       | ELECTRON TUBE  | EA  | 1    |  |

NOTE: LATEST NATIONAL STOCK NUMBER AND PART NUMBER ASSIGNMENTS ARE INCLUDED AT END OF INDEX

| STOCK NUMBER     | FIGURE NO. | ITEM NO. | STOCK NUMBER     | FIGURE NO. | ITEM NO. |
|------------------|------------|----------|------------------|------------|----------|
| 5355-00-064-1035 | 2          | 3        | 5355-00-720-5087 | 2          | 6        |
| 5920-00-131-9816 | 1          | 5        | 5960-00-827-8782 | 3          | 30       |
| 5920-00-199-9498 | 1          | 5        | 5960-00-834-4045 | 4          | 35       |
| 5960-00-503-4880 | 4          | 36       |                  |            |          |

| PART NUMBER | FSCM  | FIG. NO. | ITEM NO. | PART NUMBER | FSCM  | FIG. NO. | ITEM NO. |
|-------------|-------|----------|----------|-------------|-------|----------|----------|
|             |       |          |          | 10300253    | 18876 | 1        | 5        |
| S-642-3-BB  | 75376 | 2        | 3        | 12AX7-WA    | 81349 | 3        | 30       |
| S-647-3L    | 75376 | 2        | 6        | 47          | 08806 | 2        | 2        |
| S-653-BB-L  | 75376 | 2        | 4        | 6AW8A       | 81349 | 4        | 35       |
| OAZWA       | 81349 | 4        | 36       | 6900-15     | 28569 | 1        | 5        |

LATEST NATIONAL STOCK NUMBER ASSIGNMENTS

| STOCK NUMBER      | FIG. NO. | ITEM NO. |
|-------------------|----------|----------|
| 5960-00-061-1186  | 4        | 34       |
| 6240-00-1555-8706 | 2        | 2        |
| 5355-00-668-9156  | 2        | 4        |
| 5960-00-836-6273  | 3        | 29       |
| 5960-00-852-0235  | 3        | 27       |

LATEST PART NUMBER ASSIGNMENTS

| PART NUMBER | FSCM  | FIG. NO. | ITEM NO. |
|-------------|-------|----------|----------|
| OG3-85A2    | 73445 | 3        | 29       |
| 6267-EF86   | 76445 | 4        | 34       |
| 6BQ5        | 81349 | 3        | 27       |

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DATE 10 July 1975

PUBLICATION NUMBER

TM 11-5840-340-20P

DATE

23 Jan 78

TITLE

Radar Set AN/PRC-76

BE EXACT... PIN-POINT WHERE IT IS

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

| PAGE NO. | PARA-GRAPH | FIGURE NO. | TABLE NO. |
|----------|------------|------------|-----------|
| 33       |            |            |           |
| 44       |            | 19         |           |
| 45       |            |            |           |

For item 2, change the NSN to read: 5835-00-134-9186.  
Reason: Accuracy.

Identify the cover on the junction box (item no. 5).  
Reason: It is a separate item and is not called out on figure 19.

Add the cover of the junction box as an item in the listing for figure 19.  
Reason: Same as above.

S  
A  
M  
P  
L  
E

TEAR ALONG DOTTED LINE

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SSG I. M. DeSpirito 999-1776

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*SSG I. M. DeSpirito*

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| PAGE NO. | PARA-GRAPH | FIGURE NO. | TABLE NO. |
|----------|------------|------------|-----------|
|----------|------------|------------|-----------|

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

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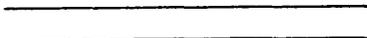
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TITLE

Voltmeter, Electronic AN/USM-98A

BE EXACT... PIN-POINT WHERE IT IS

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

PAGE NO.

PARA-GRAPH

FIGURE NO.

TABLE NO.

TEAR ALONG DOTTED LINE

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

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Army Dep (1) except  
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Sig Sec USA Dep (1)  
Fort Richardson (CERCOM Ofc) (2)  
Units org under fol TOE:  
(2 copies each unit)  
29-207  
29-610  
(1 copy each unit)  
11-16  
11-97  
11-98  
11-117  
11-302  
11-500(AA-AC)  
29-134  
29-136  
29-427  
29-500

NG: State AG (3): Units—None

USAR: None

For explanation of abbreviations used, see AR 310-50.

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| DA PUBLICATION FORM NUMBER  |               |                |                   | CHG OR DATE  |  |
| <b>TM 11-6625-559-2CP-1</b> |               |                |                   |              |  |
| LOCATION                    | QUANTITY      | UNIT OF ISSUE  | ACTION            | ISSUE DATE   |  |
| <b>NC9C2</b>                | <b>1</b>      | <b>EA</b>      |                   | <b>3116</b>  |  |
| PKG SIZE                    | ITEM NO       | BULK RCPT DATE | SLAGPC CONTROL NO |              |  |
|                             | <b>33C372</b> | <b>AB3116</b>  | <b>3117</b>       | <b>18667</b> |  |

TAGO FORM 4-268 1 SEP 78

PREVIOUS EDITION OF THIS FORM IS OBSOLETE

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