TM 11-6625-599-20P-2

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS

FOR

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

HEADQUARTERS, DEPARTMENT OF THE ARMY

9 DECEMBER 1980

Technical Manual

No. 11-6625-599-20P-2

HEADQUARTERS DEPARTMENT OF THE ARMY Washington, DC, 9 December 1980

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

Current as of 28 May 1980

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Table of Contents

Section	I.	Introduction	Page 1	Illus Figure
	П.	Repair Parts List	5	
Group	00	Voltmeter, Electronic AN/USM-98B (No parts authorized)		
	01	Voltmeter, Electronic ME-161B/U	5	1
		Voltmeter, Electronic ME-161B/U,		
		Chassis Electrical Equipment	7	2
		Voltmeter, Electronic ME-161 B/U,		
		Panel Assembly	9	3
		Voltmeter, Electronic ME-161 B/U,		
		Bracket Assembly, (SMC604980)	11	4
		Voltmeter, Electronic ME-161B/U,		
		Circuit Card Assembly (TB1)	15	5
		Voltmeter, Electronic ME-161B/U,		
		Circuit Board Assembly (TB2)	19	6
	02	Test Lead Set CX-133I/U (No parts authorized)		
Section	III.	Special Tools List (Not applicable)		
	IV.	National Stock Number and Part Number		
		Index	20	

* This manual, together with TM 11-6625-599-20P-1, 30 September 1980, supersedes so much of TM 11-6625-599-20P-12, 24 November 1964, Including Change 2, 26 August 1971, and Change 4, 28 July 1976, as pertains to repair parts and special tools lists.

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 the AN/USM-98B. 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:

Definition

Code

PA—Item procured and stocked for anticipated or known usage.

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 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:

Code Application/Explanation

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:

Code Application/Exp&nation

codes

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:

Recoverability

Definition

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-98B 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-2. 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 alpharneric 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.

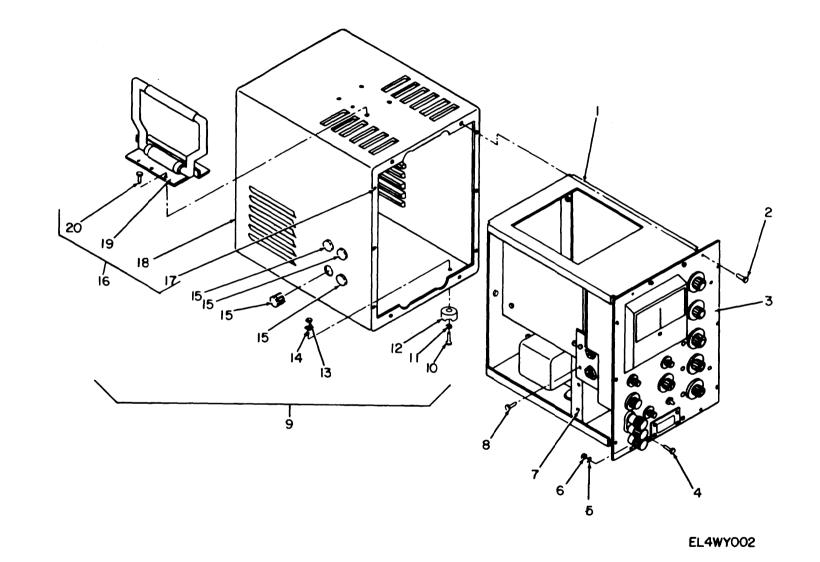


Figure 1. Voltmeter, Electronic ME-161B/U.

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TM11-6625-599-2SECTION II

(1) ILLUSTE		(2)	(3)	(4)	(5)	(6)	(7)	(8) OTY
(A) FIG	(B) ITEM	SMR	NATIONAL STOCK	PART		DESCRIPTION		INC IN
NO.	NO.	CODE	NUMBER	NUMBER	FSCM	USABLE ON CO	M/UIC	UNIT
						GROUP 01 VOLTMETER, ELECTRONIC ME-1618/U		
1	10	PAOZZ	5305-00-054-6652	MS51957-28	96906	SCREW, MACHINE	EA	4
1	11	PAOZZ	5310-00-722-5998	MS15795-805	96906	WASHER, FLAT	EA	4
1	12	PAOZZ	5307-00-075-4212	1320	26344	STUD	EA	4
1	13	PAOZZ	5310-00-934-9761	MS35649-264	96906	NUT, PLAIN, HEXAGON	EA	4
1	14	PAOZZ	5310-00-011-1041	MS35338-79	96906	WASHER	EA	4

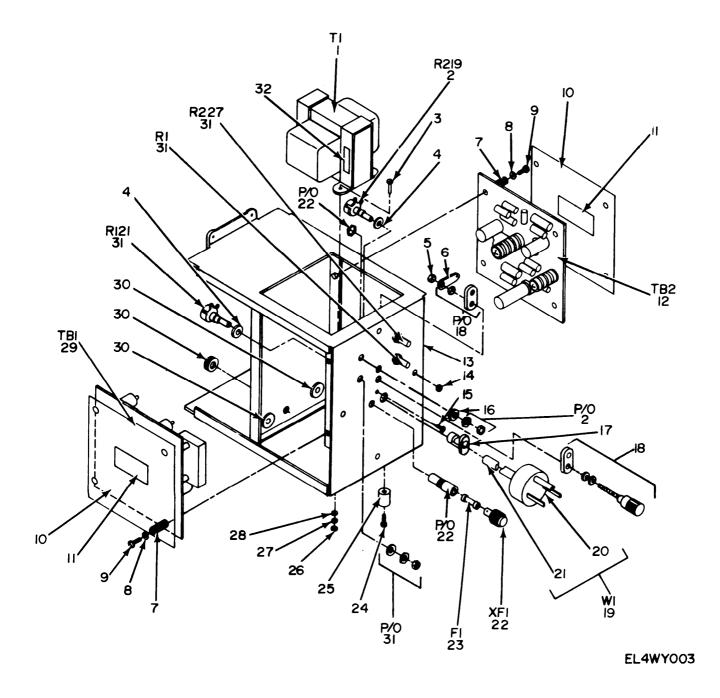
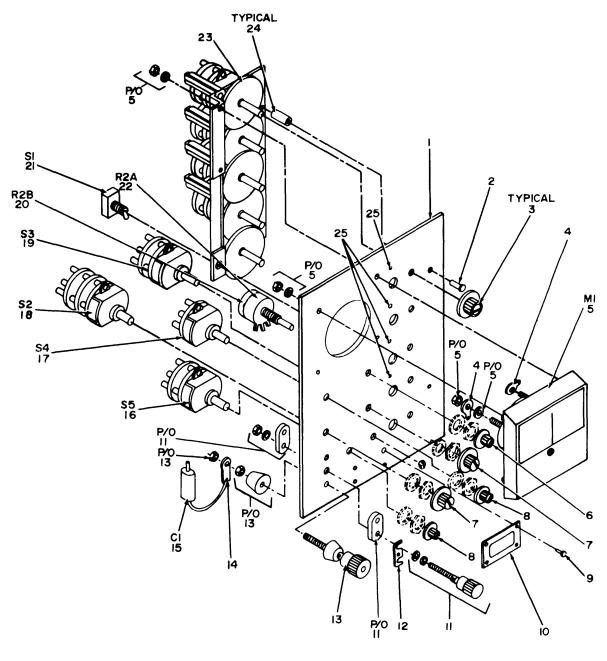


Figure 2. Voltmeter, Electronic ME-161B/U, Chassis Electrical Equipment.

TM11-6625-599-2SECTION II

(1) ILLUST	RATION	(2)	(3)	(4)	(5)	(6)		(7)	(8) QTY
(A)	(B)		NATIONAL			DESCRIPTION			INC
FIG	ITEM	SMR	STOCK	PART	DOOM				IN
NO.	NO.	CODE	NUMBER	NUMBER	FSCM		USABLE (ON COIU/M	UNIT
2	23	PAOZZ	5920-00-636-0963	81349	FUSE,C	ARTRIDGE	EA	1	
2	24	PAOZZ	5305-00-054-6657	MS51957-33	96906	SCREW, MACHINE		EA	2
2	25	PAOZZ	5340-01-029-7427	SMB605029	80063	BUMPER, PLASTIC		EA	2

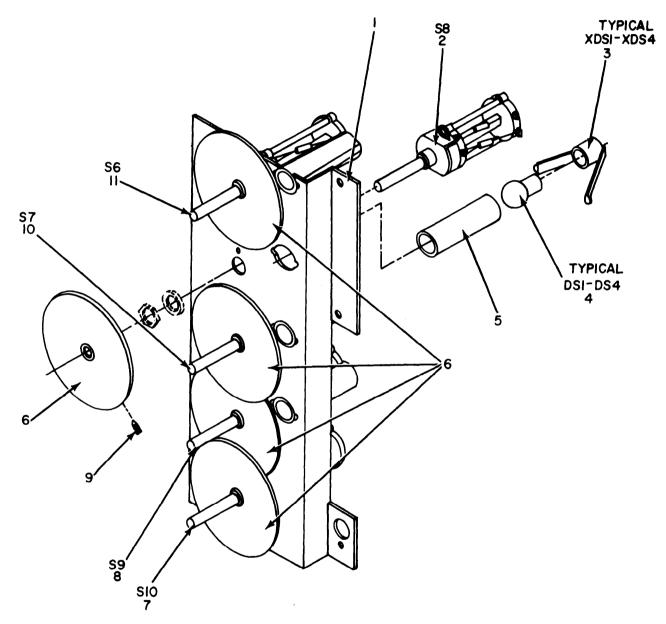


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Figure 3. Voltmeter, Electronic ME-161B/U. Panel Assembly.

TM11-6625-599-2SECTION II

(1) ILLUST (A) FIG NO.	RATION (B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7 USABLE ON COIU/I	QTY INC IN
3	3	XDOZZ		MS9152BC2G2B	96906	KNOB	EA	5
3	6	XDOZZ		MS9152BC1G2B	96906	KNOB	EA	1
3	7	XDOZZ		MS91528C2F2B	96906	KNOB	EA	2
3	8	XDOZZ		MS91528C1F2B	96906	KNOB	EA	2
3	25	PAOZZ	6210-01-027-3318	SM-B-605024	80063	LENS, LIGHT	EA	4



EL4WY008

Figure 4. Voltmeter, Elctronic ME-161B/U,

Bracket Assembly, (SMC604980).

TM11-6625-599-SECTION II

(1) TLLUST	RATION	(2)	(3)	(4)	(5)	(6)			(7)	(8) QTY
(A) FIG	(B) ITEM	SMR	NATIONAL STOCK	PART		DESCRIPTION				INC IN
NO.	NO.	CODE	NUMBER	NUMBER	FSCM		USABLE	ON CO	DIU/M	UNIT
4	4	PAOZZ	6240-00-155-8706	47	08806	LAMP, INCANDESCEN			EA	4
4	5	XDOZZ		SM-B-605028	80063	SHIELD, PILOT LIGHT			EA	4

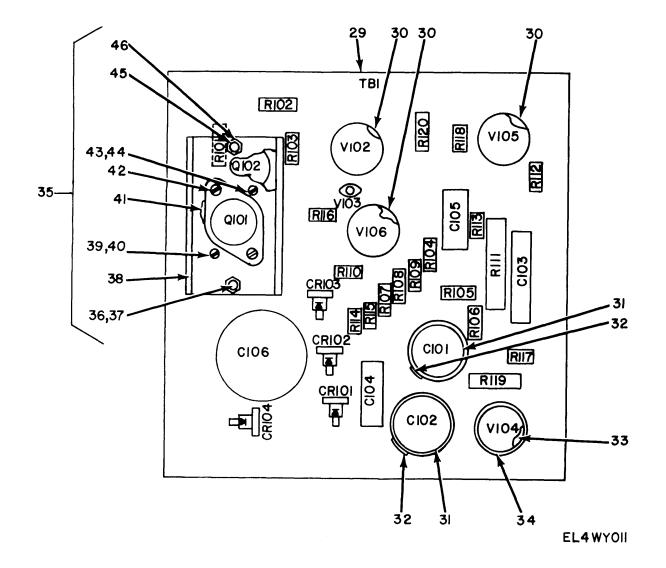


Figure 5. Voltmeter, Electronic ME-161B/U, Circuit Card Assembly (TB1) (Sheet 1 of 2).

13

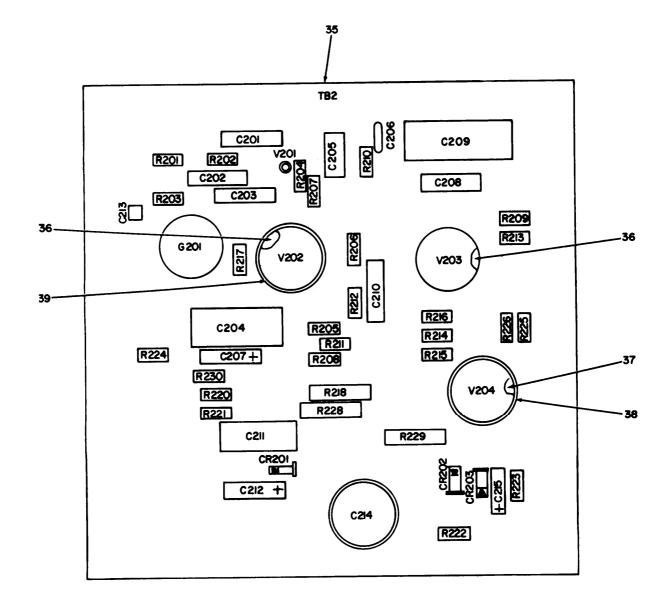
REF. DES.	ITEM NO.	REF. DES.	ITEM NO.	REF. DES.	ITEM NO.	REF. DES.	ITEM NO.
C101	1	Q101	6	R109	15	R119	23
C102	1	Q102	7	R110	16	R120	24
C103	2	R101	8	R111	17	V102	25
C104	3	R102	9	R112	18	V103	26
C105	2	R103	10	R113	19	V104	27
C106	4	R104	11	R114	11	V105	28
CR101	5	R105	12	R115	20	V106	28
CR102	5	R106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

EL4WYO12

Figure 5.	Voltmeter,	Electronic	ME-161B/U,	Circuit	Card
	Assembly (7	TB1) (Sheet	2 of 2).		

TM11-6625-599-SECTION II

(1) ILLUSTH (A) FIG NO.	RATION (B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON COI	(7) U/M	(8) QTY INC IN UNIT
5	25	PAOZZ	5960-00-852-0235	6805	81349	TUBE, ELECTRON		EA	1
5	26	PAOZZ	6240-00-577-8456	NEZE	08805	LAMP, GLOW		EA	1
5	27	PAOZZ	5960-00-836-6273	0G3-85A2	73445	ELECTRON TUBE		EA	1
5	28	PAOZZ	5960-00-827-8782	12AX7WA	81349	TUBE, ELECTRON		EA	2
5	34	PAOZZ	5960-00-494-8879	319A2	04232	SHIELD, TUBE		EA	1



EL4WY0I3

Figure 6. Voltmeter, Electronic ME-161B/U, Circuit Board Assembly (TB2) (Sheet 1 of 2).

REF. DES.	ITEM NO.	REF. DES.	ITEM NO.	REF. DES.	ITEM NO.	REF. DES.	ITEM NO.
C201	1	C214	10	R208	19	R222	28
C202	1	C215	11	R209	14	R223	28
C203	2	CR201	12	R210	14	R224	29
C204	2	CR202	12	R211	20	R225	22
C205	3	CR203	12	R212	21	R226	22
C206	4	G201	13	R213	22	R228	30
C207	5	R201	14	R214	14	R229	30
C208	1	R202	14	R215	23	R330	22
C209	6	R203	14	R216	24	V201	31
C210	1	R 2 0 4	15	R217	25	V202	32
C211	7	R205	16	R218	26	V203	33
C212	0	R206	17	R220	27	V204	34
C213	9	R207	18	R221	27		

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Figure 6. Voltmeter, Electronic ME-161B/U, Circuit Board Assembly (TB2) (Sheet 2 of 2).

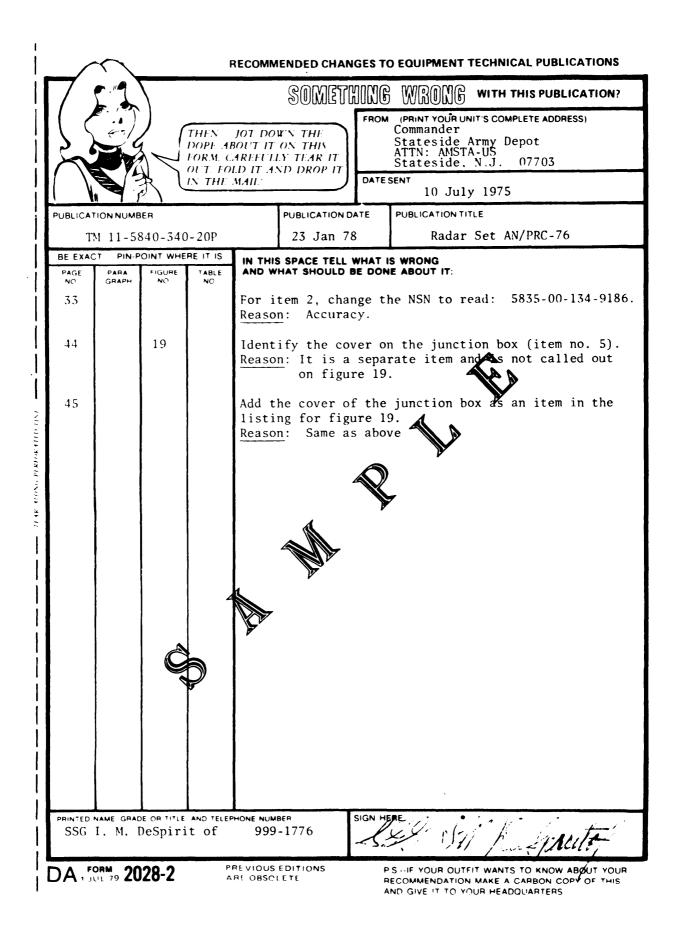
TM11-6625-599-2SECTION II

(1) ILLUSTRATION	(2)	(3)	(4)	(5)	(6)	(7) (8) QTY
(A) (B) FIG ITEM NO. NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	USABLE ON COIU/	INC IN
6 31	PAOZZ	6240-00-577-8456	NEZE	08805	LAMP, GLOW	EA	1
6 32	PAOZZ	5940-00-061-1184	6267EFB6	73445	ELECTRON TUBE	EA	1
6 33	PAOZZ	5960-00-682-8627	6AW8A	80131	TUBE, ELECTRON	EA	1
б 34	PAOZZ	5960-00-503-4880	OA2WA	81349	TUBE, ELECTRON	EA	1
6 38	PAOZZ	5960-00-494-8879	319A2	04232	SHIELD, TUBE	EA	1
6 39	PAOZZ	5960-00-958-7520	550	83330	SHIELD, TUBE	EA	1

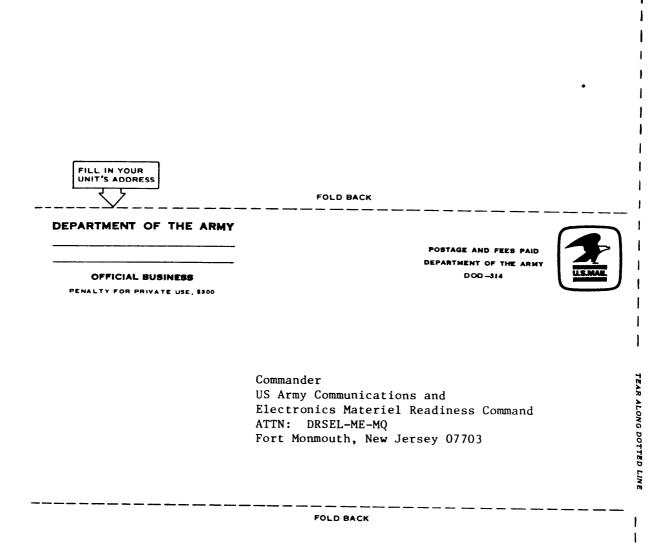
NATIONAL STOCK NUMBER AND PART NUMBER INDEX NOTE: LATEST NATIONAL STOCK NUMBER AND PART NUMBER ASSIGNMENTS ARE INCLUDED AT END OF INDEX.

	FIGURE	ITEM		FIGURE	ITEM		
STOCK NUMBER	NO.	NO.	STOCK NUMBER	NO.	NO.		
SIOCK NUMBER	NO.	NO.	SIOCK NUMBER	NO.	NO.		
5305-00-054-6652	1	10		6	31		
			6240-00-577-8456				
5305-00-054-6657	2	24	5920-00-636-0963	2	23		
5960-00-061-1186	6	32	5310-00-722-5998	1	11		
5307-00-075-4212	1	12	5960-00-836-6273	5	27		
6240-00-155-8706	4	4	5960-00-958-7520	6	39		
6240-00-577-8456	5	26	6210-01-027-3318	3	25		
PART		FIG.	ITEM	PART		FIG.	ITEM
NUMBER	FSCM	NO.	NO.	NUMBER	FSCM	NO.	NO.
F038250V1A	81349	2	23	SM-B-605024	80063	3	25
FUSUZSUVIA	01317	2	25	SM-B-605021		4	5
				SM-B-005020	80003	7	5
MS15795-805	96906	1	11	OG3-85A2	73445	5	27
MS51957-28	96906	1	10	1320	26344	1	12
MS51957-33	96906	2	24	319A2	04232	5	34
MS91528C1F2B	96906	3	8	319A2	04232	6	38
MS91528C1G2B	96906	3	6	47	08806	4	4
MS91528C2F2B	96906	3	7	550	83330	6	39
MS9152BC2G2B	96906	3	3	6AW8A	80131	6	33
NE2E	08805	5	26				
NE2E	08805	6	31	6267EF86	73445	б	32
LATEST NATIONAL STOCK	NUMBER ASS	SIGNMENTS					
STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM		
SIOCK NUMBER			SIOCK NUMBER				
	NO.	NO.		NO.	NO.		
5310-00-011-1041	1	14	5310-00-934-9761	1	13		
5960-00-494-8879	5	34	5340-01-029-7427	2	25		
5960-00-494-8879	6	38	5510 01 025 /12/		20		
5960-00-503-4880	6	34					
5960-00-682-8627	6	33					
5960-00-827-8782		28					
	5						
5960-00-852-0235	5	25					
LATEST PART NUMBER AS	SIGNMENTS						
PART		FIG.	ITEM		PART	FIG.	ITEM
NUMBER	FSCM	NO.	NO.	NUMBER	FSCM	NO.	NO.
MOLIDEIK	1 DCM	110.	110.	TICHIC	1 000	10.	110.
MS35338-79	96906	1	14	SMB605029	80063	2	25
MS35649-264	96906	1	13	12AX7WA	81349	5	28
OA2WA	81349	6	34	6BQ5	81349	5	25
UTTE ITT	01010	<u> </u>	51	2223	01010	5	2.5

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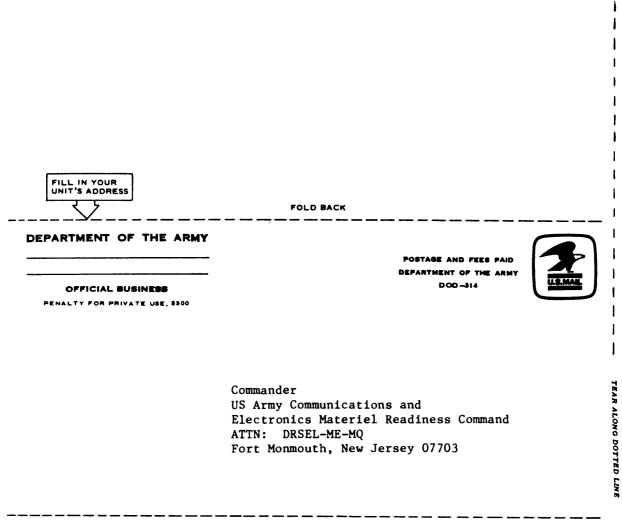


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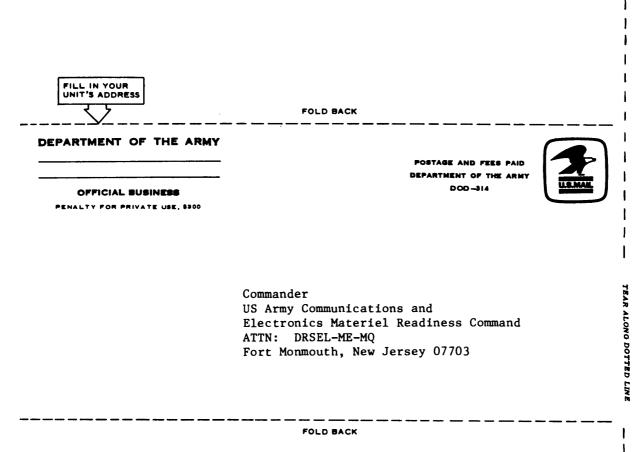
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For explanation of abbreviations used, see AR 310-50.

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