

TECHNICAL MANUAL

**GENERAL SUPPORT MAINTENANCE REPAIR
PARTS AND SPECIAL TOOLS LISTS
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)
FOR
MULTIMETER AN/USM-451
(NSN 6625-01-060-6804)**

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PARTS AND SPECIAL TOOLS LISTS
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)
FOR
MULTIMETER AN/USM-451
(NSN 6625-01-060-6804)
Current as of 1 May 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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SECTION I INTRODUCTION

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 general support maintenance of the AN/USM-451. 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>
A-Item procured and stocked for anticipated or known usage.	
XA-Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.	
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:

<i>Code</i>	<i>Application/Explanation</i>
H-Support item is removed, replaced, used at the general support 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>Application/Explanation</i>
H-The lowest maintenance level capable of complete repair of the support item is the general support level.	

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.	
H-Reparable item. When uneconomically reparable, condemn and dispose at the general support level.	
D-Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.	

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/USM451 and its components:

TM 11-6625-2953-14, Multimeter AN/USM-451

b. National stock numbers (NSN's) that are missing from P source coded items have been applied for and will

be added to the Army Master Data File (AMDF). Until the NSN's are established and published, submit exception requisitions to Commander, US Army Communications and Electronics Materiel Readiness Command ATTN: DRSEL-MM, Fort Monmouth, NJ 07703 for the part required to support your equipment.

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.

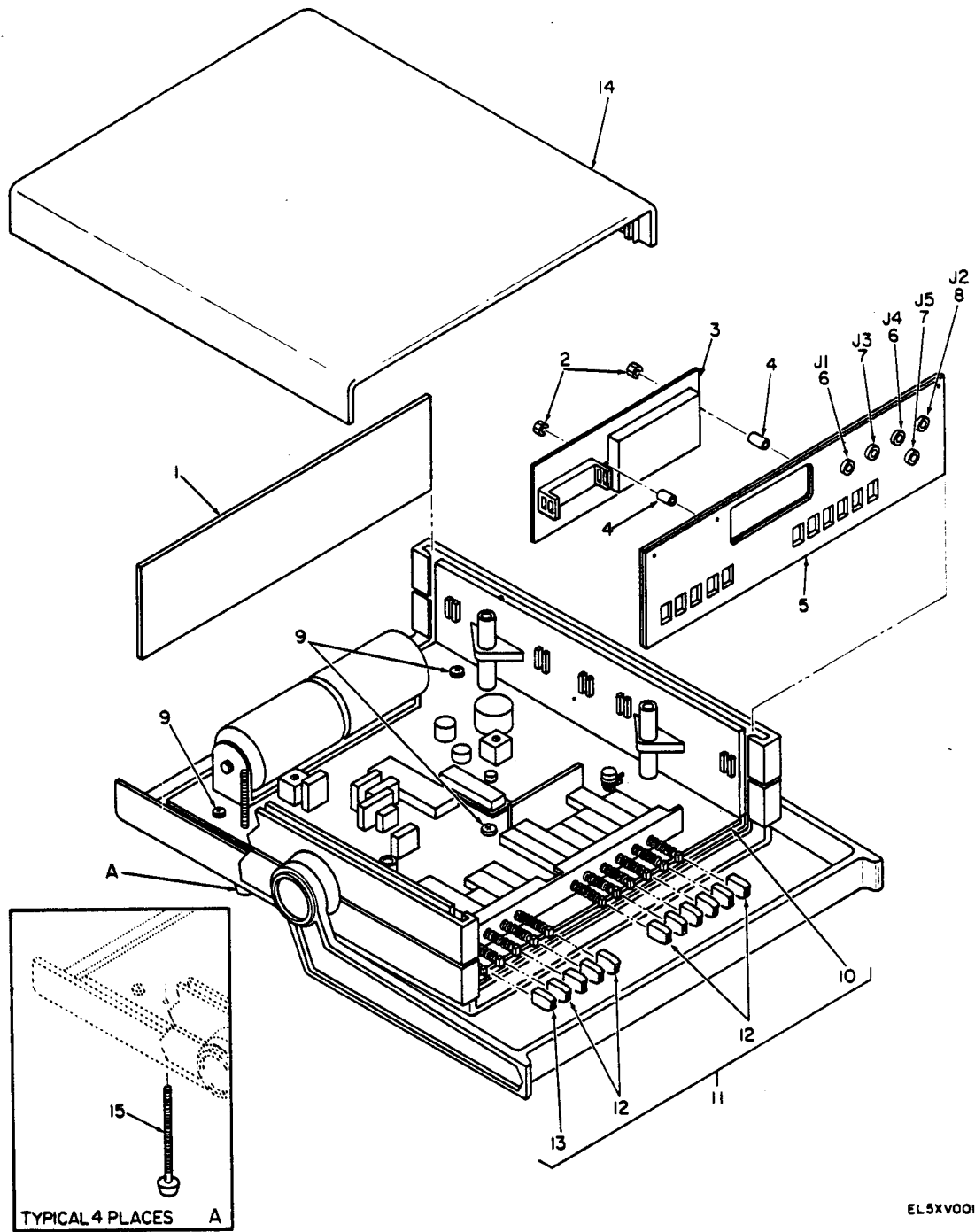
b. When National stock number or part number is known.

(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.



EL5XV001

Figure 1. Multimeter AN/USM-451

SECTION II (1) ILLUSTRATION (A) (B) FIG ITEM NO. NO.		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	TM11-6625-2953-40P (6) DESCRIPTION	(7) USABLE ON CODE U/M	(8) QTY INC IN UNIT
						GROUP 00 MULTIMETER AM/USN-451		
1	1	XAHZZ		89-10914-1	50423	PANEL ASSY REAR	EA	1
1	2	PAHZZ	5310-00-934-9748	MS35649-244	96906	NUT,PLAIN,HEXAGON	EA	4
1	3	PAHZZ	6625-01-091-3449	89-10912-1	50423	CIRCUT,CARD,ASSEMBL	EA	1
1	4	XDHZZ		4006	83330	SPACER SLEEVE	EA	2
1	5	XDHHH		89-10913-1	50423	PANEL ASSY FRONT	EA	1
1	6	XDHZZ		1509-102YEL	83330	JACK	EA	2
1	7	XDHZZ		1509-102BLK	83330	JACK	EA	2
1	8	XDHZZ		1509-102RED	83330	JACK	EA	1
1	9	PAHZZ	5305-00-052-8886	MS24630-22	96906	SCREW,TAPPING,THREA	EA	3
1	10	XDHHD		89-10911-1	50423	CKT CARD ASSY MAIN	EA	1
1	11	XDHHH		89-10915-1	50423	CABINET ASSY	EA	1
1	12	XAHZZ		40-10049-1	50423	KNOB	EA	10
1	13	XAHZZ		40-10056-1	50523	KNOB	EA	1
1	14	XAHZZ		39-10030-1	50423	COVER TOP	EA	1
1	15	PAHZZ	5340-00-343-3526	F48	31827	BUMPER,PLASTIC	EA	4

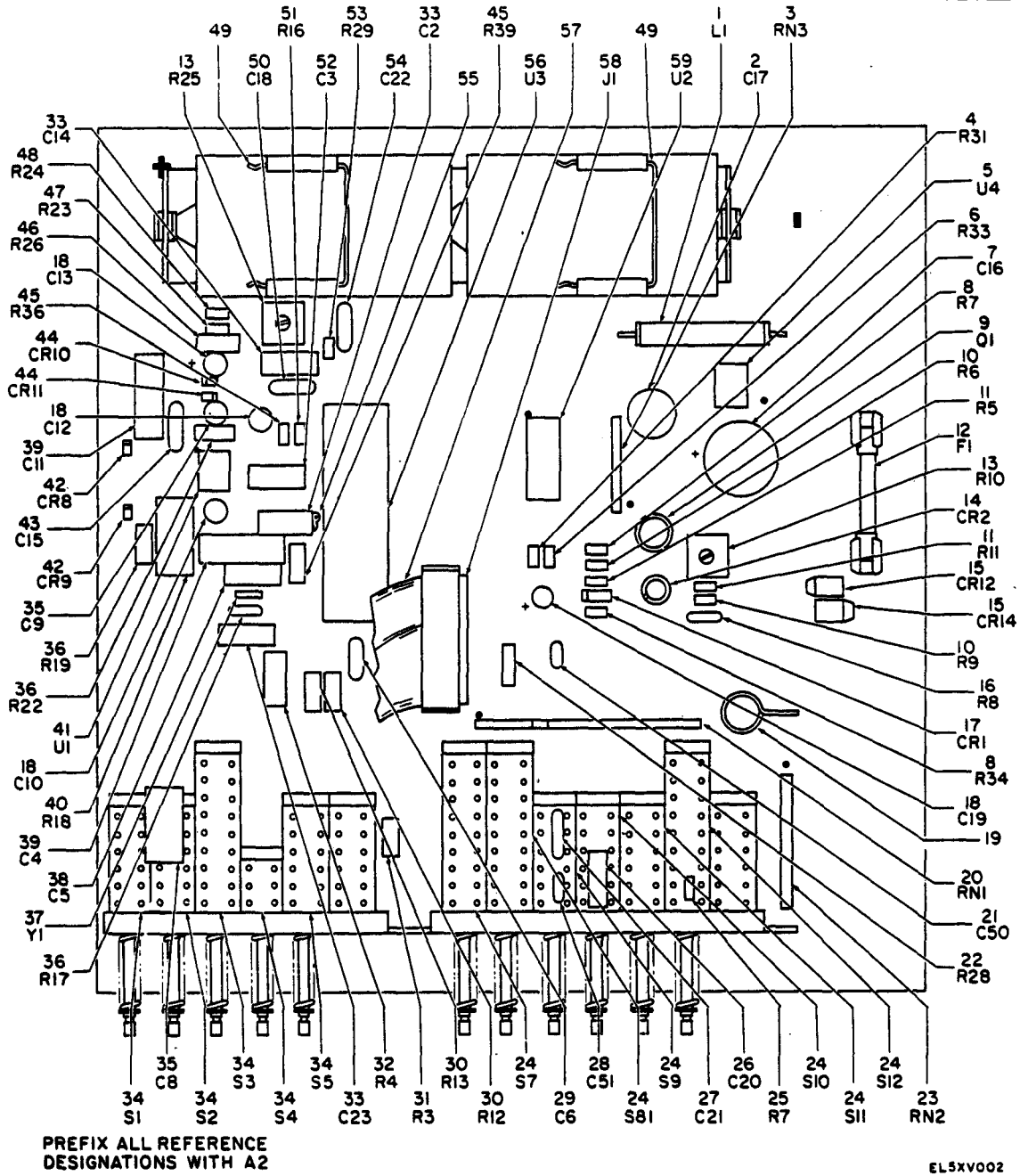
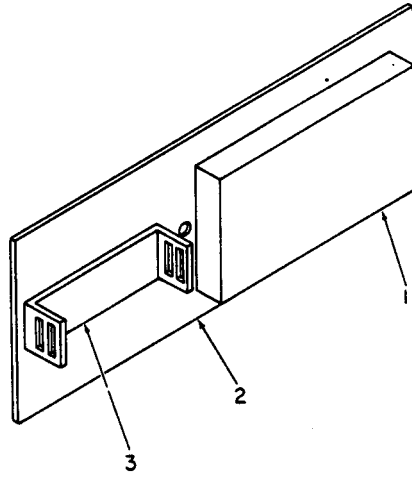


Figure 2. Printed circuit mother board

SECTION II (1) ILLUSTRATION (A) (B) FIG ITEM NO. NO.		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	TM11-6625-2953-40P (6) DESCRIPTION	(7) USABLE ON CODE U/M	(8) QTY INC IN UNIT
						GROUP 01 PCB-MOTHER BOARD		
2	1	XDHZZ	5950-00-648-4869	4628	76493	COIL,RADIO FREQUENC	EA	1
2	2	PAHZZ		EK220-10	52767	CAPACITOR, FIXED, ELE	EA	1
2	3	PAHZZ		CSP08E031MJ	91637	RESISTOR, NETWORK, FI	EA	1
2	4	PAHZZ	5905-00-681-8817	RC07GF105J	81349	RESSITOR, FIXED, COMP	EA	1
2	5	PAHZZ		TL496	01295	MICROCIRCUIT, DIGITA	EA	1
2	6	PAHZZ	5905-00-208-4293	RN55D1003F	81349	RESISTOR, FIXED, FILM	EA	1
2	7	PAHZZ		GRE2200UF16V	56289	CAPACITOR, FIXED, ELE	EA	1
2	8	PAHZZ	5905-00-965-9123	RN55D2871F	81349	RESISTOR, FIXED, FILM	EA	2
2	10	PAHZZ	5905-00-952-7223	RN55D1782F	81349	RESISTOR, FIXED, FILM	EA	2
2	11	PAHZZ	5905-00-431-7827	RNC55K1471FS	81349	RESISTOR, FIXED, FILM	EA	2
2	12	PAHZZ	5920-00-138-1655	313002	75915	FUSE, CARTIDGE	EA	1
2	13	PAHZZ	5905-00-443-9085	2100-3248	28480	RESISTOR, VARIABLE, N	EA	2
2	14	PAHZZ		05-10119-1	50423	SEMICONDUCTOR, DEVIC	EA	1
2	15	PAHZZ		JAN1N5400	81349	SEMICONDUCTOR, DEVIC	EA	2
2	16	PAHZZ	5905-00-226-3564	RN55D1621F	81349	RESISTOR, FIXED, FILM	EA	1
2	17	PAHZZ		JAN1N4006	81349	SEMICONDUCTOR, DEVIC	EA	1
2	18	PAHZZ	5910-00-353-0874	T362B226K015AS	05397	CAPACITOR, FIXED, ELE	EA	5
2	19	PAHZZ		89-10938-1	50423	AMPLIFIER, ELECTRONI	EA	1
2	20	PAHZZ	5905-01-094-8963	13-10078-1	50423	RESISTOR, NETWORK, FI	EA	1
2	21	PAHZZ		C010EA/10E	80031	CAPACITOR, VARIABLE	EA	1
2	22	PAHZZ		Q60-100-.1PCT1/4	56637	RESISTOR, FIXED, WIR	EA	1
2	23	PAHZZ		13-10079-1	50423	RESISTOR, NETWORK, FI	EA	1
2	24	PAHZZ		25-10192-1	50423	SWITCH, PUSH	EA	6
2	25	PAHZZ		12-12955-1A	50423	AMP SHUNT	EA	1
2	26	PAHZZ		CM05FY432FN3	81349	CAPACITOR, FIXED, MIC	EA	1
2	27	PAHZZ		CM05FY321FN3	81349	CAPACITOR, FIXED, MIC	EA	1
2	28	PAHZZ		10S-06TRIKO	52763	CAPACITOR VAR CER	EA	1
2	29	PAHZZ		CM05ED751G03	81349	CAPACITOR, FIXED, MIC	EA	1
2	30	PAHZZ	5905-00-171-2003	RC20GF204J	81349	RESISTOR, FIXED, COMP	EA	2
2	31	PAHZZ	5905-00-800-3480	RC07GF395J	81349	RESISTOR, FIXED, COMP	EA	1
2	32	PAHZZ	5905-00-279-2617	RC32GF105J	81349	RESISTOR	EA	1
2	33	PAHZZ		C280MCF/A33K	80031	CAPACITOR, FIXED, PLA	EA	3
2	34	PAHZZ		25-10191-1	50423	SWITCH, PUSH	EA	5
2	35	PAHZZ		3888-2KV	72982	CAPACITOR, FIXED, CER	EA	2
2	36	PAHZZ	5905-00-279-1875	RC20GF205J	81349	RESISTOR, FIXED, COMP	EA	3
2	37	PAHZZ		CX1H40/M101CAL.C	51791	CRYSTAL	EA	1
2	38	PAHZZ	5910-00-361-8816	C280MCH/A100K	19701	CAPACITOR, FIXED, MET	EA	1
2	39	PAHZZ	5910-00-540-7834	C280MCH/A470K	80031	CAPACITOR, FIXED, MET	EA	2

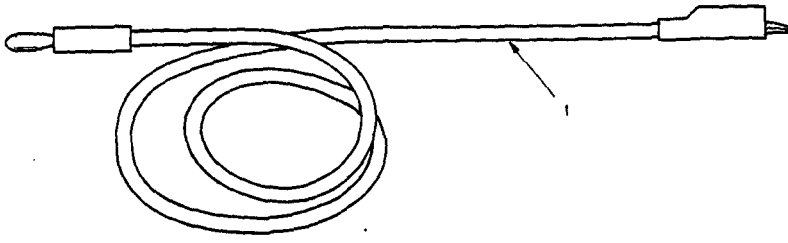
SECTION II		TM11-6625-2953-40P						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
ILLUSTRATION								
(A)	(B)	NATIONAL	PART		DESCRIPTION		QTY	
FIG	ITEM	STOCK	NUMBER	FSCM		USABLE ON CODE	INC	
NO.	NO.	NUMBER	NUMBER				IN	
							UNIT	
2	40	PAHZZ	5905-00-279-1954	RC42GF154J	81349	RESISTOR, FIXED, COMP	EA	1
2	41	PAHZZ		TL061	01295	MICROCIRCUIT, DIGITA	EA	1
2	42	PAHZZ		PAD-50	17856	SEMICONDUCTOR, DEVICE	EA	2
2	43	PAHZZ		CMR05E220G0DR	81349	CAPACITOR, FIXED, MIC	EA	1
2	44	PAHZZ	5961-00-106-0673	5082-2835	28480	SEMICONDUCTOR DEVIC	EA	2
2	45	PAHZZ	5905-00-969-6807	RN55D3162F	81349	RESISTOR, FIXED, FILM	EA	2
2	46	PAHZZ	5905-00-984-7684	RN60D3322F	81349	RESISTOR, FIXED, FILM	EA	1
2	47	PAHZZ	5905-00-432-6384	RNC55K5621FS	81349	RESISTOR, FIXED, FILM	EA	1
2	48	PAHZZ	5905-00-965-9056	RN55D2211F	81349	RESISTOR, FIXED, FILM	EA	1
2	49	XDHZZ	5340-00-414-2987	63	91833	CLIP, RETAINING	EA	2
2	50	PAHZZ	5910-01-058-9590	CMR05E560F0DR	81349	CAPACITOR, FIXED, MIC	EA	1
2	51	PAHZZ	5905-00-965-9111	RN55D5622F	81349	RESISTOR, FIXED, FILM	EA	1
2	52	PAHZZ		C280MAH/A220K	80031	CAPACITOR, FIXED, PLA	EA	1
2	53	PAHZZ	5905-00-139-1674	RN55D1101F	81349	RESISTOR, FIXED, FILM	EA	1
2	54	PAHZZ		CM15ED471G03	81349	CAPACITOR, FIXED, MIC	EA	1
2	55	PAHZZ		FTE12011-6809	98291	TERMINAL, FEED, THROU	EA	1
2	56	PAHZZ		CD4030BE	54590	MICROCIRCUIT, DIGITA	EA	1
2	57	XDHZZ		171-16	15912	CABLE ELECTRICAL	EA	1
2	58	PAHZZ	5935-01-094-8078	609-2603	15912	CONNECTOR, RECEPTACL	EA	1
2	59	PAHZZ		CD4030B	02735	MICROCIRCUIT, DIGITA	EA	1



EL5XV003

Figure 3. Printed circuit board display

SECTION II		TM11-6625-2953-40P					
(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
					GROUP 02 PCB-DISPLAY		
3	1	XDHZZ		21-10049-1	50423	LIGHT INDICATOR	EA 1
3	2	XAHZZ		55-10204-1	50423	PRINTED WIRING BD	EA 1
3	3	PAHZZ	5935-01-094-8078	609-2603	15912	CONNECTOR, RECEPTACL	EA 1



EL5XV004

Figure 4. Test lead accessory

SECTION II				TM11-6625-2953-40P			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION							QTY
(A)	(B)	NATIONAL			DESCRIPTION		INC
FIG	ITEM	STOCK	PART			USABLE ON CODE	U/M
NO.	NO.	NUMBER	NUMBER	FSCM			UNIT
					GROUP 03 TEST LEAD ACCESSORY		
4	1	PAHHH	21331	83330	PROD,TEST		EA 1

SECTION IV

TM11-6625-2953-40P

NATIONAL STOCK NUMBER AND PART NUMBER INDEX							
STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.		
5305-00-052-8886	1	9	5910-00-540-7834	2	39		
5961-00-106-0673	2	44	5961-00-544-5752	2	9		
5920-00-138-1655	2	12	5950-00-648-4869	2	1		
5905-00-139-1674	2	53	5905-00-681-8817	2	4		
5905-00-171-2003	2	30	5905-00-800-3480	2	31		
5905-00-208-4293	2	6	5310-00-934-9748	1	2		
5905-00-226-3564	2	16	5905-00-952-7223	2	10		
5905-00-279-1875	2	36	5905-00-965-9056	2	48		
5905-00-279-1954	2	40	5905-00-965-9111	2	51		
5905-00-279-2617	2	32	5905-00-965-9123	2	8		
5340-00-343-3526	1	15	5905-00-969-6807	2	45		
5910-00-353-0874	2	18	5905-00-984-7684	2	46		
5910-00-361-8816	2	38	5910-01-058-9590	2	50		
5340-00-414-2987	2	49	6625-01-091-3449	1	3		
5905-00-431-7827	2	11	5935-01-094-8078	2	58		
5905-00-432-6384	2	47	5935-01-094-8078	3	3		
5905-00-443-9085	2	13	5905-01-094-8963	2	20		
PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
CD4030B	2735	2	59	RN55D2871F	81349	2	8
CD4030BE	54590	2	56	RN55D3162F	81349	2	45
CMR05E220G0DR	81349	2	43	RN55D5622F	81349	2	51
CMR05E560F0DR	81349	2	50	RN60D3322F	81349	2	46
CM05ED751G03	81349	2	29	TL061	1295	2	41
CM05FY321FN3	81349	2	27	TL496	1295	2	5
CM05FY432FN3	81349	2	26	T362B226K015AS	5397	2	18
CM15ED471G03	81349	2	54	05-10119-1	50423	2	14
CSP08E031MJ	91637	2	3	10S-06TRIKO	52763	2	28
CK1H40/H101CAL.C	51791	2	37	12-12955-1A	50423	2	25
C010EA/10E	80031	2	21	13-10078-1	50423	2	20
C280MCF/A33K	80031	2	33	13-10079-1	50423	2	23
C280MAH/A220K	80031	2	52	1509-102BLK	83330	1	7
C280MCH/A100K	19701	2	38	1509-102RED	83330	1	8
C280MCH/A470K	80031	2	39	1509-102YEL	83330	1	6
EK220-10	52767	2	2	171-16	15912	2	57
FTE12011-6809	98291	2	55	21-10049-1	50423	3	1
F4B	31827	1	15	2100-3248	28480	2	13
GRE2200UF16V	56289	2	7	21331	83330	4	1
JAN1N4006	81349	2	17	25-10191-1	50423	2	34
JAN1N5400	81349	2	15	25-10192-1	50423	2	24
MPSA92	4713	2	9	313002	75915	2	12
MS24630-22	96906	1	9	3888-2KV	72982	2	35
MS35649-244	96906	1	2	39-10030-1	50423	1	14
PAD-50	17856	2	42	40-10049-1	50423	1	12
Q60-100-.1PCT1/4	56637	2	22	40-10056-1	50523	1	13
RC07GF105J	81349	2	4	4006	83330	1	4
RC07GF395J	81349	2	31	4628	76493	2	1
RC20GF204J	81349	2	30	5082-2835	28480	2	44
RC20GF205J	81349	2	36	55-10204-1	50423	3	2
RC32GF105J	81349	2	32	609-2603	15912	2	58
RC42GF154J	81349	2	40	609-2603	15912	3	3
RNC55K1471FS	81349	2	11	63	91833	2	49
RNC55K5621FS	81349	2	47	89-10911-1	50423	1	10
RN55D1003F	81349	2	6	89-10912-1	50423	1	3
RN55D1101F	81349	2	53	89-10913-1	50423	1	5
RN55D1621F	81349	2	16	89-10914-1	50423	1	1
RN55D1782F	81349	2	10	89-10915-1	50423	1	11
RN55D2211F	81349	2	48	89-10938-1	50423	2	19

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



THEN JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.

SOMETHING WRONG WITH THIS PUBLICATION?

FROM (PRINT YOUR UNIT'S COMPLETE ADDRESS)

Commander
Stateside Army Depot
ATTN: AMSTA-US
Stateside, N.J. 07703

DATE SENT

10 July 1975

PUBLICATION NUMBER

TM 11-5840-340-20P

PUBLICATION DATE

23 Jan 78

PUBLICATION TITLE

Radar Set AN/PRC-76

BE EXACT PIN-POINT WHERE IT IS

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

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

For item 2, change the NSN to read: 5835-00-154-9186.
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

SAMPLE

PRINTED NAME GRADE OR TITLE AND TELEPHONE NUMBER

SSG I. M. DeSpirito of 999-1776

SIGN HERE

DA FORM 2028-2
1 JUL 79

PREVIOUS EDITIONS ARE OBSOLETE

P.S. - IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

1148 40000 PERIOD 4111 (11)

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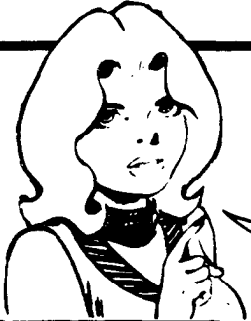


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For explanation of abbreviations used, see AR 310

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