

TM 11-6665-230-40P

TECHNICAL MANUAL

GENERAL SUPPORT, MAINTENANCE, REPAIR PARTS AND SPECIAL TOOLS LISTS
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)

FOR

RADIAC SET AN/PDR-27R
(NSN 6665-00-961-0846)

HEADQUARTERS, DEPARTMENT OF THE ARMY

25 OCTOBER 1978

TECHNICAL MANUAL }
 No. 11-6665-230-40P }

HEADQUARTERS
 DEPARTMENT OF THE ARMY
 WASHINGTON, DC, 25 October 1978

GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS
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 FOR
 RADIAC SET AN/PDR-27R
 (NSN 6665-00-961-0846)

Current as of 19 June 1978

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*This manual supersedes TM 11-6665-230-40P, 19 August 1977.

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/PDR-27R. 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.
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>
O-Support	item is removed, replaced, used at the organizational level.
H-Support	item is removed, replaced, used at the general support level.
D-Support	items that are removed, replaced, used at depot, mobile depot, specialized repair activity only.

(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.
D-	The lowest maintenance level capable of complete repair of the support item is the depot 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 repairable, 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.
L-	Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity 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

The following publications pertain to the AN/PDR-27R and its components:

- TM 11-5965-247-12P, Headset, Electrical H-43B/U
- TM 11-5965-247-35P, Headset, Electrical H-43B/U
- TM 11-6665-230-15, Radiac Set AN) PDR-27R
- TM 11-6665-230-20P, Radiac Set AN/PDR-27R

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.

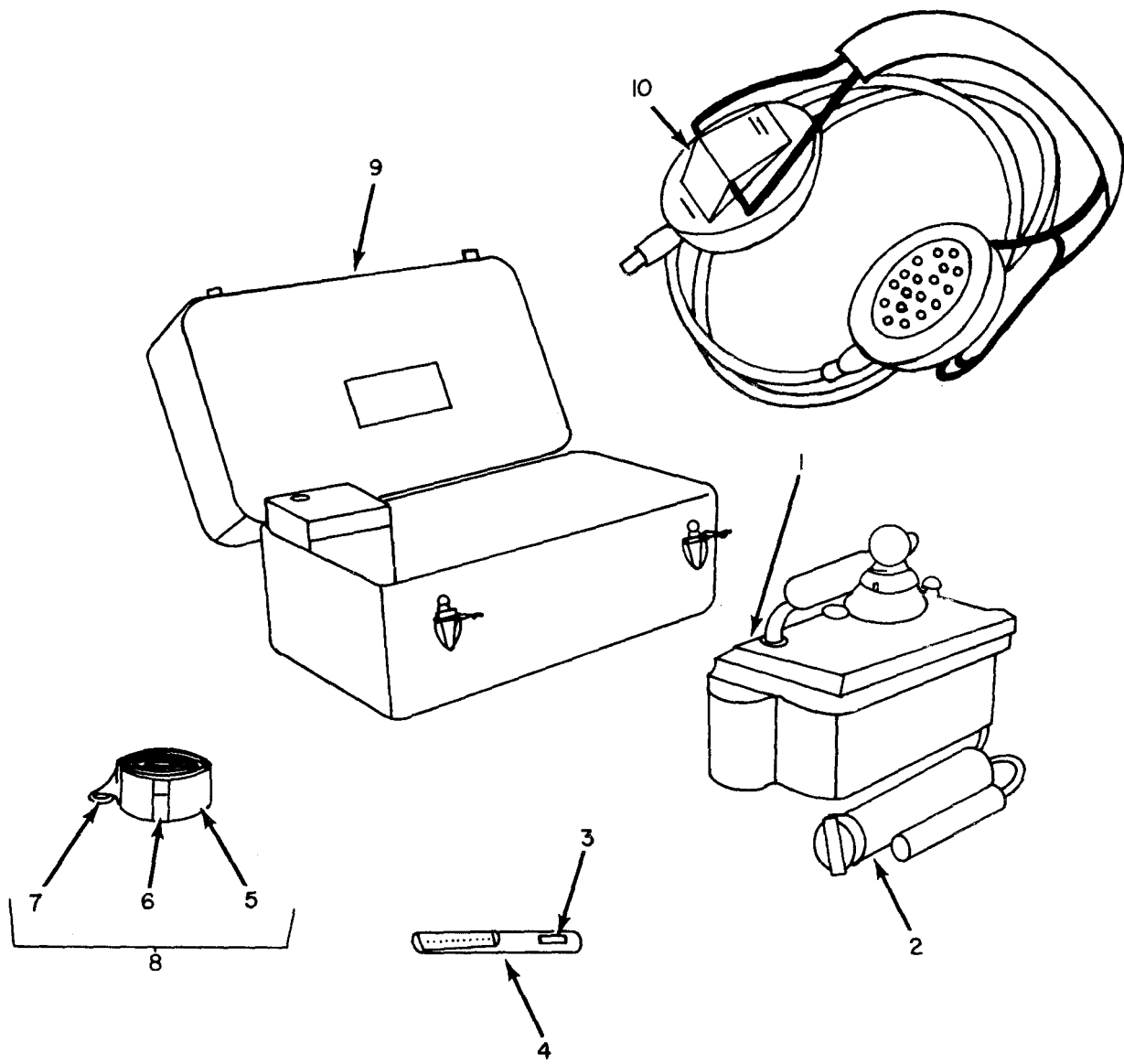
(2) *Second.* After finding the figure and item

number, locate the figure and item number in the repair parts list.

6. Abbreviations

Not applicable.

(Next printed page is 4)

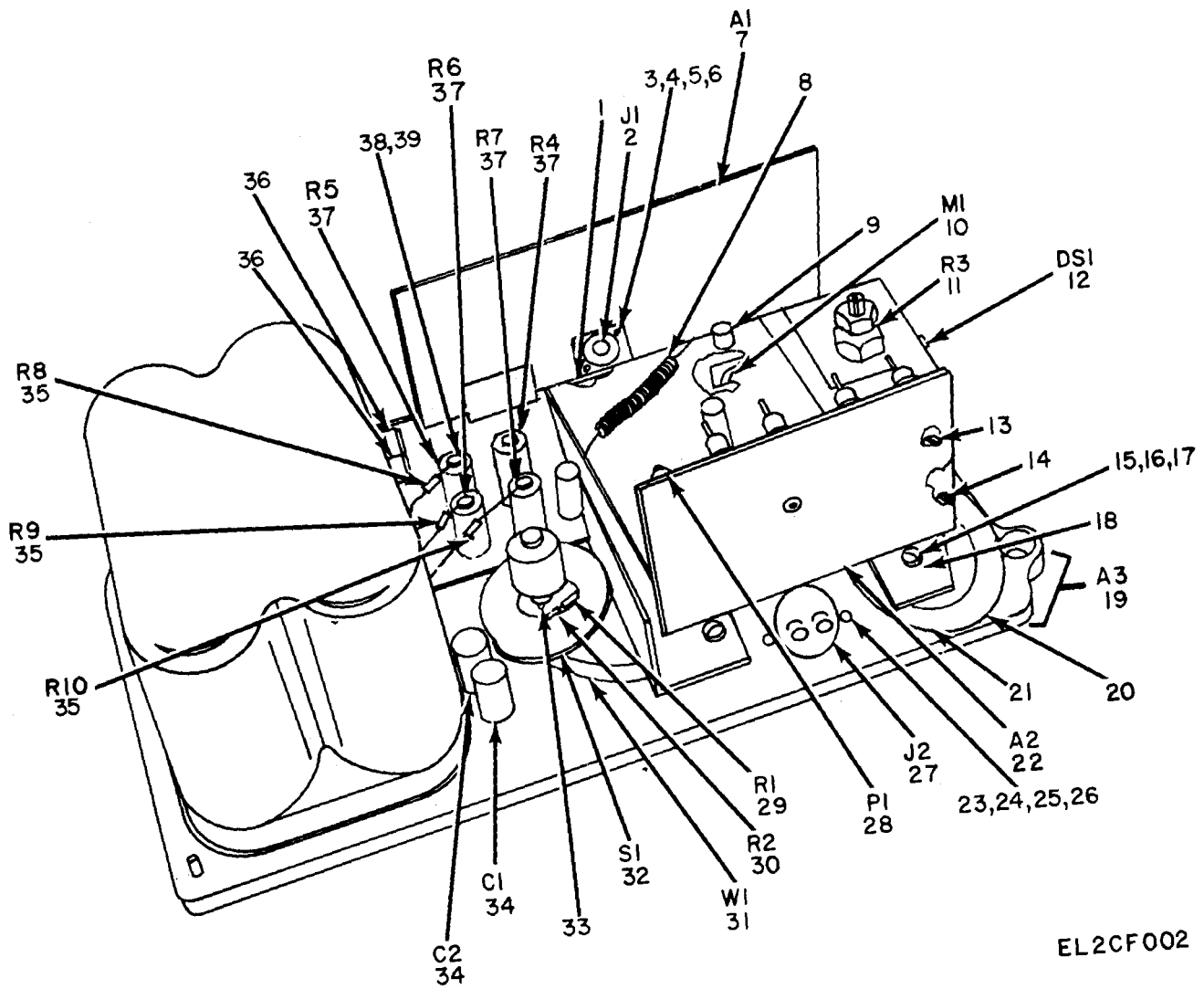


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Figure 1. Radiac Set AN/PDR-27R.

SECTION II

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION							
(a)	(b)	NATIONAL			DESCRIPTION		QTY
FIG	ITEM	STOCK	PART				INC
NO.	NO.	CODE	NUMBER	FSCM	USABLE ON CODE	U\M	IN
							UNIT
					GROUP 00 RADIAC SET AN/PDR-27R		
1	1	XDHHH	IM-203/PDR-27R	80058	RADIACMETER	EA	1
1	2	PAHHH	6665-00-684-1533	DT196PDR27J	80058	RADIAC DETECTOR	EA 1
1	3	XDHZZ	A12822A44-2	15249	LABEL,RAACT,WARNING	EA	1
1	4	PAOHH	6665-00-832-6159	MX7338PDR27R	80058	RADIOACTIVE T SAMP	EA 1
1	5	XDHZZ	521-11356-5	15249	STRAP,NECK	EA	1
1	6	XDHZZ	146	76786	BAR,BUCKLE	EA	1
1	7	XDHZZ	0340	80874	SNAP,HOOK	EA	2
1	8	PAOHH	5999-00-685-9470	ST136PDR27J	80058	HARNES	EA 1
1	9	PAOHH	6665-00-832-6157	CY4995PDR27R	80058	CASE,CARRYING	EA 1
1	10	PAOHH	5965-00-651-7372	H43BU	80058	HEADSET	EA 1



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Figure 2. Radiac Meter IM-203/PDR-27R.

SECTION II		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(1)	ILLUSTRATION							
(a)	(b)		NATIONAL	PART		DESCRIPTION		QTY
FIG	ITEM	SMR	STOCK	NUMBER	FSCM		USABLE ON CODE	INC
NO.	NO.	CODE	NUMBER	NUMBER				IN
								UNIT
						GROUP 01 RADIAC METER IM-203/PDR-27R		
2	1	PAHHH	6665-00-832-6163	B12822A47	15249	HOLD DOWN, CARD		EA 1
2	2	XDHHH		6007-022-940-002	91662	CONNECTOR, RCPT, ELEC		EA 1
2	3	XDHZZ		4-40 UNC-2BX1/2	12360	SCREW, MACHINE		EA 2
2	4	XDHZZ		4-40 UNC-2B	12360	NUT, HEXAGON		EA 2
2	5	XDHZZ		NO. 4	12360	WASHER, LOCK		EA 2
2	6	XDHZZ		NO. 4	12360	WASHER, LOCK		EA 2
2	7	PAHDL	6665-00-832-6162	A12822AD39	15249	ASSEMBLY, LV		EA 1
2	8	XDHZZ		C12822A48-1	15249	SPRING, COMPRESSION		EA 1
2	9	PAHHH	6665-00-832-6164	C12822A51	15249	LINKAGE ASSY, METER		EA 1
2	10	PAHHH	6665-00-069-3031	MR36M201	81349	METER, RDENTGEN RATE		EA 1
2	11	PAHZZ	5905-00-556-3350	RV4NAYSD103A	81349	RESISTOR, VAR, CMPSN		EA 1
2	12	PAHZZ	6240-00-898-9896	10CS	58854	LAMP, INCANDESCENT		EA 1
2	13	XDHZZ		4728	00866	TERMINAL, STUD		EA 1
2	14	XDHZZ		ST-250-L5	98291	TERMINAL, STUD		EA 3
2	15	XDHZZ		6-32UNC-2BX1/2	12360	SCREW, MACHINE		EA 4
2	16	XDHZZ		NO. 6	12360	WASHER, LOCK		EA 4
2	17	XDHZZ		NO. 6	12360	WASHER, LOCK		EA 2
2	18	XDHZZ		A12822A53	15249	SPACER, ALUMINUM		EA 1
2	19	XDHZZ		521-11312	15249	COVER ASSEMBLY		EA 1
2	20	PAHZZ	5330-00-542-1752	521-1320048	15249	GASKET, RUBBER		EA 1
2	21	XDHZZ		C12822A13E	15249	CHASSIS, ALUMINUM		EA 1
2	22	PADDL	6665-00-832-6161	A12822AD38	15249	ASSEMBLY, HV		EA 1
2	23	XDHZZ		NO. 4	12360	WASHER, LOCK		EA 2
2	24	XDHZZ		NO. 4	12360	WASHER, LOCK		EA 2
2	25	XDHZZ		4-40 UNC-2B	12360	NUT, HEXAGON		EA 2
2	26	XDHZZ		4-40 UNC-2BX1/2	12360	SCREW, MACHINE		EA 2
2	27	PAHHH	5935-00-118-8221	250-10-30-170	71785	CONNECTOR, RCPT, ELEC		EA 1
2	28	XDHZZ		SKT-5BC	98291	CONNECTOR, PLUG, ELEC		EA 1
2	29	PAHZZ	5905-00-688-3475	RC07GF474K	81349	RESISTOR, FXD, CMPSN		EA 1
2	30	PAHZZ	5905-00-721-0552	RC07GF105K	81349	RESISTOR, FXD, CMPSN		EA 1
2	31	XDHZZ		C12822A42	15249	HARNES, WIRING		EA 1
2	32	PAHZZ	5930-00-932-9271	SR02	15249	SWITHC, ROTARY		EA 1
2	33	PAOZZ	5305-00-281-3118	320/505	97913	SETSCREW		EA 2
2	34	PAHZZ	5910-00-822-3766	CK60AX221M	81349	CAPACITOR, FXD, CER		EA 2
2	35	PAHZZ	5905-00-683-2246	RC07GF473J	81349	RESISTOR, FXD, CMPSN		EA 3
2	36	XDHZZ		312B	33135	TERMINAL, FEEDTHRU		EA 2
2	37	PAHZZ	5905-00-581-1394	RV6NAYSL104A	81349	RESISTOR, VAR, CMPSN		EA 4
2	38	XDHZZ		1/4-32 NEF-2A	12360	NUT, HEXAGON		EA 4
2	39	XDHZZ		NO. 1/4	12360	WASHER, LOCK		EA 4

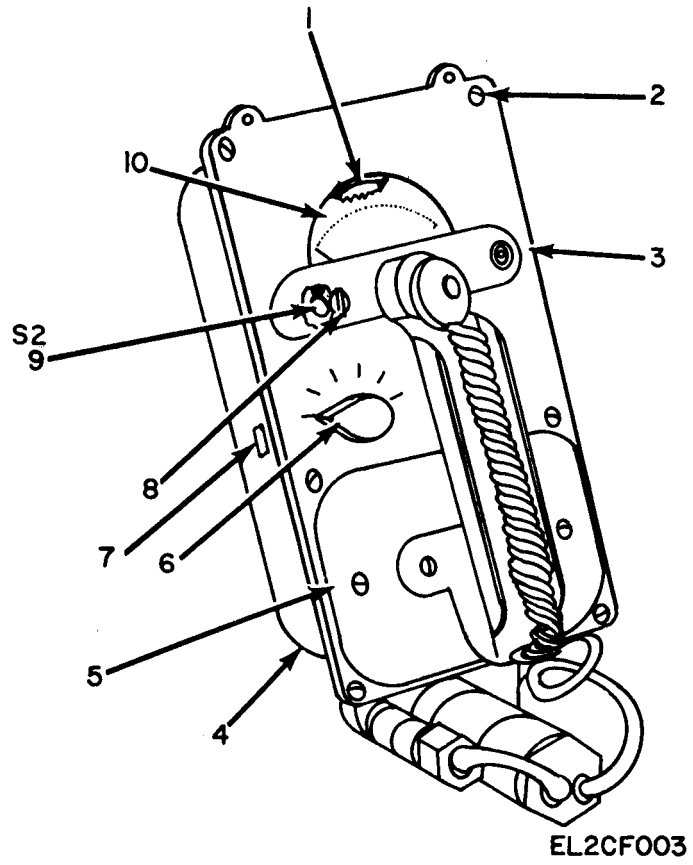


Figure 3. Radiac Meter IM-203/PDR-27R, Cover Assembly.

SECTION II

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
ILLUSTRATION							QTY	
(a)	(b)	NATIONAL			DESCRIPTION		INC	
FIG	ITEM	SMR	STOCK	PART			IN	
NO.	NO.	CODE	NUMBER	NUMBER	FSCM	USABLE ON CODE	U\M	UNIT
3	1	XDHZZ		521-11398	15249	GASKET,RUBBER,WDO	EA	1
3	2	PAHZZ	5305-00-685-1800	521-11414	15249	SCREW,EXT RLV BODY	EA	6
3	3	XDHZZ		521-11359	15249	PANEL,MOUNTING	EA	1
3	4	XDHZZ		521-11272	15249	HOUSING,RADIACMETER	EA	1
3	5	XDHZZ		521-11313	15249	COVER,BATTERY	EA	1
3	6	PAOZZ	5355-00-656-1275	521-3651527	15249	KNOB	EA	1
3	7	XDHZZ		B12822A33-3	15249	PLATE,IDENT	EA	1
3	8	PAHZZ	5310-00-832-6495	521-11365	15294	NUT,SEAL	EA	1
3	9	PAHZZ	5930-00-615-1383	30-1	81073	SWITCH,PUSH	EA	1
3	10	XDHZZ		521-11321	15249	WINDOW,GLASS	EA	1

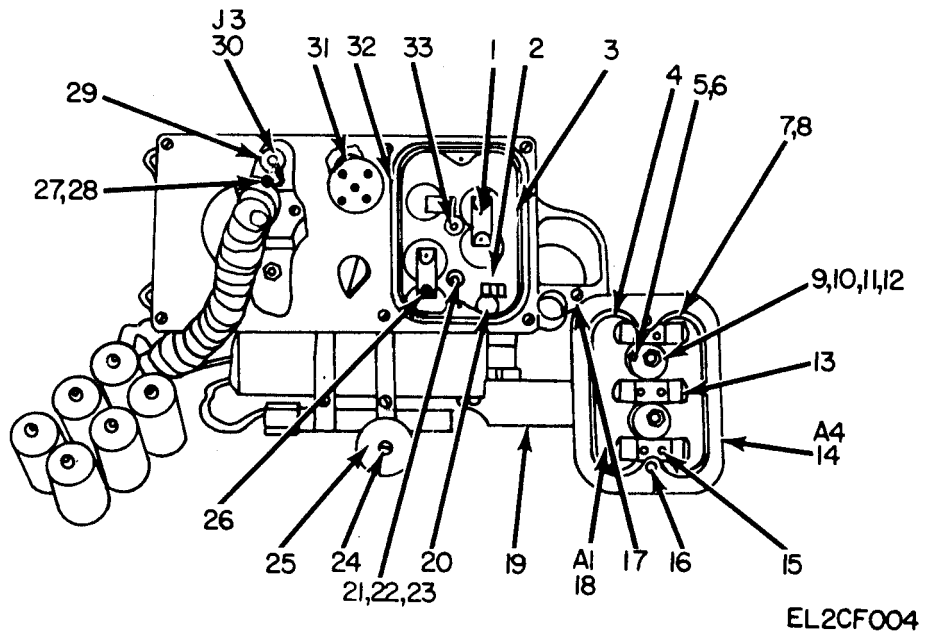
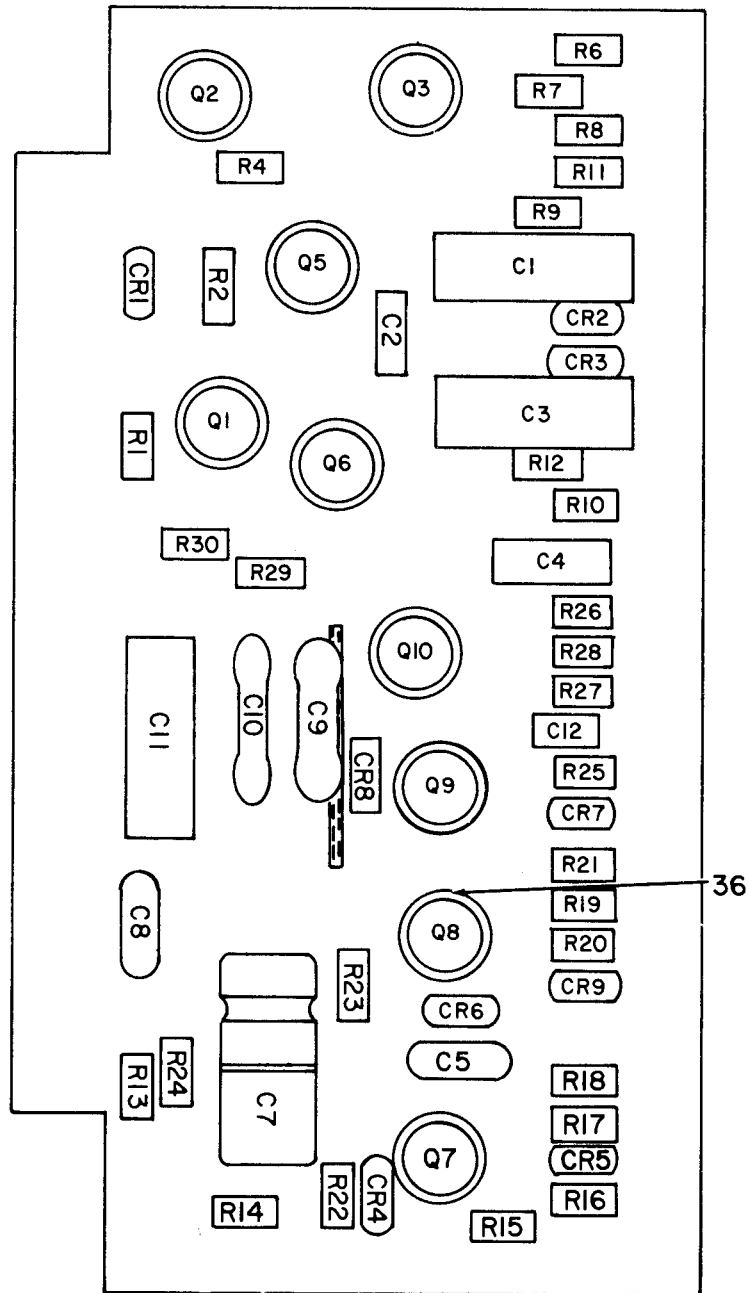


Figure 4. Radiac Meter IM-203/PDR-27R, Battery Cover Assembly.

SECTION II								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
ILLUSTRATION							QTY	
(a)	(b)	NATIONAL			DESCRIPTION		INC	
FIG	ITEM	SMR	STOCK	PART			IN	
NO.	NO.	CODE	NUMBER	NUMBER	FSCM	USABLE ON CODE	U\M	UNIT
4	1	PAHZZ	6665-00-683-1339	521-11374	15249	CONTACT, ELECTRICAL	EA	2
4	2	PAOHH	6665-00-832-6167	521-11372	15249	TRAY, BATTERY, BOTTOM	EA	1
4	3	PAHZZ	5970-00-675-9392	521-11373	15249	INSULATOR, PLATE	EA	1
4	4	XDHZZ		521-3231552	15249	INSULATOR, PLATE	EA	1
4	5	PAOZZ	5340-00-936-3019	521-3241517	15249	SPACER, NEOPRENE	EA	2
4	6	XDHZZ		AN340-8	88044	NUT, HEXAGON	EA	2
4	7	PAOZZ	5330-00-222-2767	902-1	86579	GASKET, RUBBER	EA	2
4	8	XDHZZ		521-3231551	15249	SPACER	EA	1
4	9	PAHZZ	5305-00-685-1799	521-11383	15249	SCREW, EXT RLV BODY	EA	2
4	10	XDHZZ		AN364-832C	88044	NUT, SLFLKG, HEX	EA	2
4	11	PAHZZ	5310-00-167-0833	AN960-8L	88044	WASHER, FLAT	EA	4
4	12	PAHZZ	5310-00-045-3299	AN935-8L	88044	WASHER, LOCK	EA	2
4	13	PAHZZ	6665-00-683-1339	521-11374	15249	CONTACT, ELECTRICAL	EA	5
4	14	PAOHH	6665-00-832-6168	521-11378	15249	BATTERY COVER ASSY	EA	1
4	15	XDHZZ		SE-45	61957	EYELET, METALLIC	EA	6
4	16	PAOZZ	5305-00-947-7033	521-11364	15249	SCREW, SEAL	EA	2
4	17	PAHZZ	5305-00-685-1800	521-11414	15249	SCREW, EXT RLV BODY	EA	2
4	18	PAOHH	6665-00-832-6166	521-11371	15249	TRAY, BATTERY, TOP	EA	1
4	19	XDHZZ		521-11314	15249	HANDLE	EA	1
4	20	PAHZZ	5999-00-683-1338	521-11375	14671	CONTACT, ELECTRICAL	EA	2
4	21	XDHZZ		AN515-618	88044	SCREW, MACHINE	EA	2
4	22	PAHZZ	5310-00-167-0832	AN960-6L	88044	WASHER, FLAT	EA	2
4	23	PAHZZ	5365-00-936-3020	521-3241519	15249	SPACER	EA	2
4	24	PAOZZ	5305-00-947-7033	521-11364	15249	SCREW, SEAL	EA	1
4	25	PAHHH	6665-00-675-9401	521-11319	15249	CAP, ALUMINUM	EA	1
4	26	XDHZZ		SE-46	61957	EYELET, METALLIC	EA	8
4	27	XDHZZ		AN515C3-4	88044	SCREW, MACHINE	EA	4
4	28	XDHZZ		521-1940004	15249	WASHER, LOCK	EA	4
4	29	PAOZZ	5935-00-885-2264	M39012-25-0006	81349	COVER, ELEC CONN	EA	1
4	30	XDHHH		UG-290A/U	15249	CONNECTOR, RCPT, ELEC	EA	1
4	31	PAHZZ	5330-00-951-3150	MS29513-26	96906	PACKING, PREFORMED	EA	1
4	32	PAOZZ	5330-00-542-1753	1320047A	15249	GASKET, RUBBER	EA	1
4	33	PAHZZ	5940-00-581-4712	323	79963	TERMINAL, LUG	EA	2



NOTE: FOR COMPLETE REFERENCE DESIGNATION,
PREFIX WITH 1A1.

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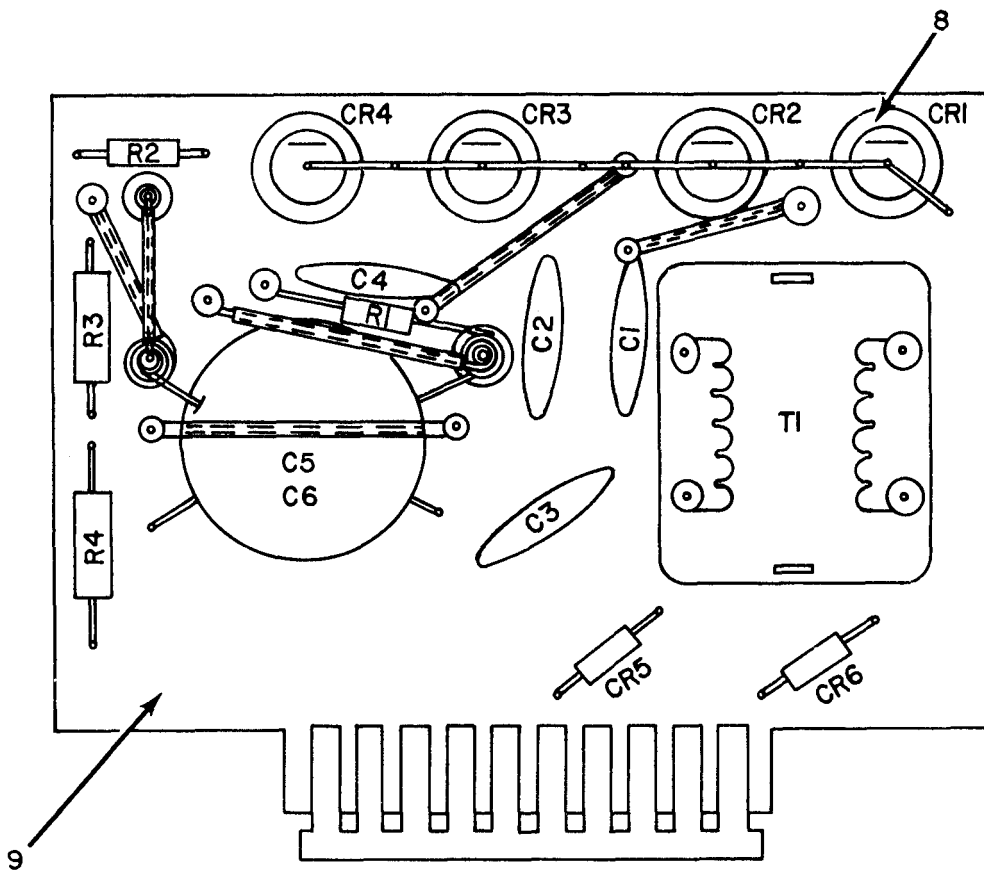
Figure 5. Assembly, Low Voltage (1A1) (Sheet 1 of 2).

REF. DES.	ITEM NO.	REF. DES.	ITEM NO.	REF. DES.	ITEM NO.
C1	1	Q1	14	R14	24
C2	2	Q2	15	R15	25
C3	1	Q3	15	R16	26
C4	3	Q5	16	R17	19
C5	4	Q6	16	R18	27
C7	5	Q7	15	R19	28
C8	6	Q8	15	R20	29
C9	7	Q9	15	R21	30
C10	8	Q10	17	R22	20
C11	9	R1	18	R23	18
C12	10	R2	19	R24	31
CR1	11	R4	19	R25	27
CR2	12	R6	20	R26	32
CR3	12	R7	20	R27	33
CR4	13	R8	21	R28	34
CR5	13	R9	22	R29	27
CR6	12	R10	21	R30	35
CR7	12	R11	21		
CR8	12	R12	22		
CR9	12	R13	23		

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Figure 5. Assembly, Low Voltage (1A1) (Sheet 2 of 2).

(1) ILLUSTRATION (a) FIG NO.	(2) (b) ITEM NO.	(3) SMR CODE	(4) NATIONAL STOCK NUMBER	(5) PART NUMBER	(6) FSCM	(7) DESCRIPTION USABLE ON CODE	(8) QTY INC IN UNIT
GROUP 0101 ASSEMBLY, LOW VOLTAGE (1A1)							
5	1	PADZZ	5910-00-823-1538	CP05A1KC223K3	81349	CAPACITOR, FXD, PAPER	EA 2
5	2	PADZZ	5910-00-109-1987	CK63AY103M	81349	CAPACITOR, FXD, CER	EA 1
5	3	XDDZZ		CS12AC820K	81349	CAPACITOR, ELCTLT	EA 1
5	4	PADZZ	5910-00-702-8057	CM05FD331G03	81349	CAPACITOR, FXD, MICA	EA 1
5	5	XDDZZ		CL65BB561MP3	81349	CAPACITOR, ELCTLT	EA 1
5	6	PADZZ	5910-00-954-5500	CM05FD151G03	81349	CAPACITOR, FXD, MICA	EA 1
5	7	PADZZ	5910-00-952-8401	CM06FD392G03	81349	CAPACITOR, FXD, MICA	EA 1
5	8	PADZZ	5910-00-957-8583	CM06F152J03	81349	CAPACITOR, FXD, MICA	EA 1
5	9	PADZZ	5910-00-683-7401	CP05A1KC153K3	81349	CAPACITOR, FXD, PAPER	EA 1
5	10	XDDZZ		CS12BE225K	81349	CAPACITOR, ELCTLT	EA 1
5	11	XDDZZ		B822A29	15249	SEMICONDUCTOR, DIODE	EA 1
5	12	PADZZ	5961-00-669-6884	1N277	81349	SEMICONDUCTOR, DIODE	EA 6
5	13	PADZZ	5961-00-577-6084	1N645	81349	SEMICONDUCTOR, DIODE	EA 2
5	14	PADZZ	5961-00-824-8449	2N396A	81349	TRANSISTOR	EA 1
5	15	PADZZ	5961-00-852-5171	2N1711	80131	TRANSISTOR	EA 5
5	16	PADZZ	5961-00-752-5229	2N404	81349	TRANSISTOR	EA 2
5	17	PADZZ	5960-00-583-4410	2N388	80131	TRANSISTOR	EA 1
5	18	PADZZ	5905-00-105-7764	RCR07G222JS	81349	RESISTOR, FXD, CMPSN	EA 2
5	19	PADZZ	5905-00-752-3338	RC07GF102K	81349	RESISTOR, FXD, CMPSN	EA 3
5	20	PADZZ	5905-00-681-9969	RC07GF332J	81349	RESISTOR, FXD, CMPSN	EA 3
5	21	PADZZ	5905-00-752-3340	RC07GF472K	81349	RESISTOR, FXD, CMPSN	EA 3
5	22	PADZZ	5905-00-681-8818	RC07GF153J	81349	RESISTOR, FXD, CMPSN	EA 2
5	23	PADZZ	5905-00-681-8820	RC07GF244J	81349	RESISTOR, FXD, CMPSN	EA 1
5	24	PADZZ	5905-00-752-3157	RC07GF273K	81349	RESISTOR, FXD, CMPSN	EA 1
5	25	PADZZ	5905-00-726-5346	RC07GF182K	81349	RESISTOR, FXD, CMPSN	EA 1
5	26	PADZZ	5905-00-686-9993	RC07GF124K	81349	RESISTOR, FXD, CMPSN	EA 1
5	27	PADZZ	5905-00-816-8554	RC07GF103K	81349	RESISTOR, FXD, CMPSN	EA 3
5	28	PADZZ	5905-00-800-3481	RC07GF155K	81349	RESISTOR, FXD, CMPSN	EA 1
5	29	PADZZ	5905-00-726-5345	RC07GF154K	81349	RESISTOR, FXD, CMPSN	EA 1
5	30	PADZZ	5905-00-686-4529	RC07GF123K	81349	RESISTOR, FXD, CMPSN	EA 1
5	31	PADZZ	5905-00-686-4527	RC07GF272K	81349	RESISTOR, FXD, CMPSN	EA 1
5	32	PADZZ	5905-00-110-7622	RCR07G682JS	81349	RESISTOR, FXD, CMPSN	EA 1
5	33	PADZZ	5905-00-687-0002	RC07GF223J	81349	RESISTOR, FXD, CMPSN	EA 1
5	34	PADZZ	5905-00-726-6436	RC07GF333K	81349	RESISTOR, FXD, CMPSN	EA 1
5	35	PADZZ	5905-00-683-2246	RC07GF473J	81349	RESISTOR, FXD, CMPSN	EA 1
5	36	XDDZZ		SMB454556	80063	PAD, TRANSISTOR	EA 9



REF. DES.	ITEM NO.	REF. DES.	ITEM NO.	REF. DES.	ITEM NO.
C1	1	CR1	3	R1,	5
C2	1	CR2	3	R2	5
C3	1	CR3	3	R3	6
C4	1	CR4	3	R4	6
C5	2	CR5	4	T1	7
C6	2	CR6	4		

NOTE:
FOR COMPLETE REFERENCE DESIGNATION PREFIX WITH A12.

EL2CF007

SECTION II

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION							
(a)	(b)	NATIONAL			DESCRIPTION		QTY
FIG	ITEM	STOCK	PART	FSCM		U\M	INC
NO.	NO.	CODE	NUMBER		USABLE ON CODE		IN
							UNIT
GROUP 0102 ASSEMBLY, HIGH VOLTAGE (1A2)							
6	1	PADZZ		CK63AY103X	81349	CAPACITOR, FXD, CER	EA 4
6	2	XDOZZ		CK68AW103M	81349	CAPACITOR, FXD, CER	EA 2
6	3	XDDZZ		1N547	80131	SEMICONDUCTOR, DIODE	EA 4
6	4	PADZZ	5961-00-669-6884	1N277	81349	SEMICONDUCTOR, DIODE	EA 2
6	5	PADZZ	5905-00-686-4530	RC07GF104K	81349	RESISTOR, FXD, CMPSN	EA 2
6	6	PADZZ	5905-00-246-9396	RCR20G226JS	81349	RESISTOR, FXD, CMPSN	EA 2
6	7	PADZZ	5950-00-832-4878	T1-767	24765	TRANSFORMER, PWR, STU	EA 1
6	8	XDDZZ		SMB454556	80063	PAD, TRANSISTOR	EA 4
6	9	XDHZZ		C12822PC28B	15249	PRINTED WIRING BD	EA 1

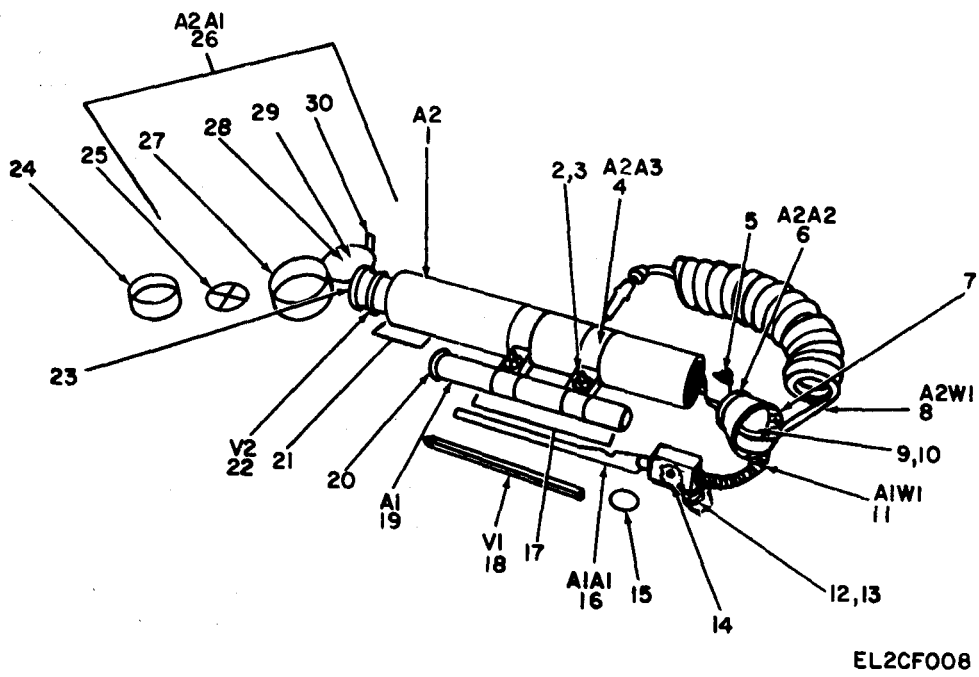


Figure 7. Radiac Detector DT-196/PDR-27J.

SECTION II		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(1)	(a)							
ILLUSTRATION	FIG	SMR	NATIONAL STOCK	PART	FSCM	DESCRIPTION	U\M	QTY
NO.	NO.	CODE	NUMBER	NUMBER		USABLE ON CODE		INC IN UNIT
						GROUP 02 RADIAC DETECTOR DT-196/PDR-27J		
7	1	XDHHH		521-11401	15249	HOUSING,LARGE TUBE	EA	1
7	2	XDHZZ		AN515C6-12	88044	SCREW,MACHINE	EA	2
7	3	XDHZZ		79NC1-62	72962	NUT,CLINCH	EA	2
7	4	XDHZZ		521-11348	15249	CLAMP,STEEL	EA	2
7	5	PAHZZ	5330-00-951-3150	MS29513-26	96906	PACKING,PREFORMED	EA	2
7	6	XDHZZ		521-11325	15249	CAP,BRASS	EA	1
7	7	PAHZZ	5975-00-683-2152	521-11327	15249	NUT,PACKING	EA	1
7	8	PAHHH	5995-00-921-1285	RE10D2378A	80064	CORD,PROBE,RET	EA	1
7	9	XDHZZ		521-11377	15249	WASHER,FLAT	EA	1
7	10	PAHZZ	5330-00-260-9311	AN6227B5	88044	GASKET,RUBBER	EA	1
7	11	PAHZZ	6665-00-632-9218	521-11412	15249	CABLE ASSY,JUMPER	EA	1
7	12	PAHZZ	5975-00-683-2152	521-11327	15249	NUT,PACKING	EA	1
7	13	PAHZZ	5330-00-260-9311	AN6227-B5	96906	GASKET,RUBBER	EA	1
7	14	XDHZZ		521-11323	15249	NUT,GLAND	EA	1
7	15	PAHZZ	5330-00-951-3150	MS29513-26	96906	PACKING,PREFORMED	EA	1
7	16	PAHHH	6665-00-676-6330	521-11379	15249	HOLDER,ELCTRN TUBE	EA	1
7	17	XDHZZ		521-11317	15249	HOUSING,DETECTOR,SM	EA	1
7	18	PAHZZ	5960-00-542-6544	5980	81349	ELECTRON TUBE	EA	1
7	19	XDHZZ		521-11316	15249	HOUSING,ELCTRN TUBE	EA	1
7	20	XDHZZ		521-11318	15249	PLUG HOUSING	EA	1
7	21	XDHZZ		521-11324	15249	HOUSING,LARGE	EA	1
7	22	PAHZZ	5960-00-686-9101	5979	81349	ELECTRON TUBE	EA	1
7	23	PAHZZ	5999-00-593-3805	1454	83330	CAP,ELECTRICAL	EA	1
7	24	XDHZZ		521-11326	15249	NUT,RETAINER	EA	2
7	25	PAHZZ	6665-00-675-9422	521-11355	15249	GUARD,TUBE	EA	1
7	26	XDHHH		521-11328	15249	COVER ASSEMBLY,DET	EA	1
7	27	XDHZZ		521-11353-2	15249	RING,SLIP,DETAIL	EA	1
7	28	XDHZZ		521-3131514	15249	SHIELD,RADN,LEAD	EA	1
7	29	XDHZZ		521-11329	15249	COVER,DETECTOR	EA	1
7	30	PAHZZ	6665-00-675-9419	521-11330	15249	LATCH,COVER	EA	1

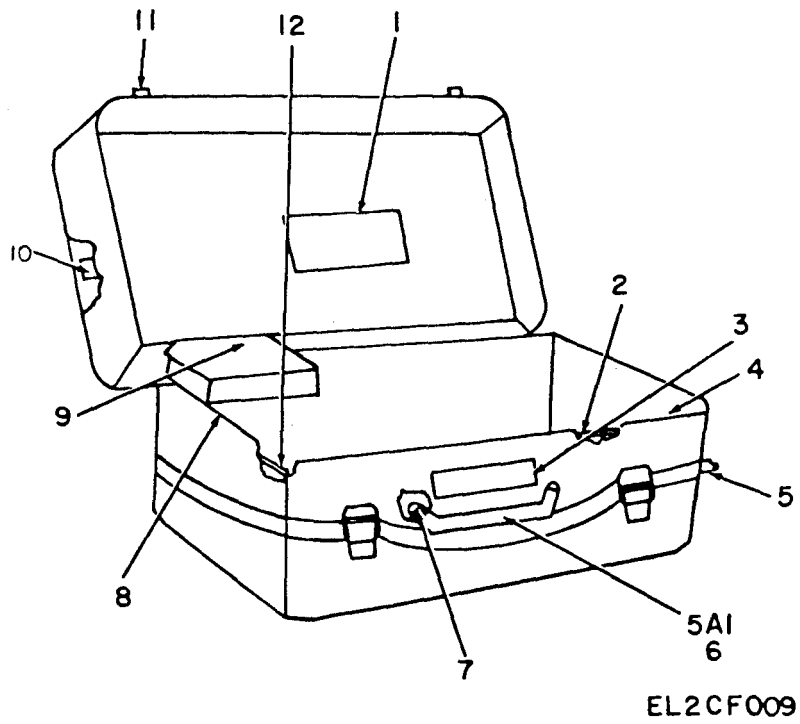


Figure 8. Case, Carrying CY-4995/PDR-27R.

SECTION II

(1) ILLUSTRATION (a) FIG NO.	(2) (b) ITEM NO.	(3) SMR CODE	(4) NATIONAL STOCK NUMBER	(5) PART NUMBER	(6) DESCRIPTION FSCM USABLE ON CODE	(7) U\M	(8) QTY INC IN UNIT
GROUP 04 CASE, CARRYING CY-4995/PDR-27R							
8	1	XDHZZ		A12822A46	15249 LABEL, RAACT, WARNING	EA	1
8	2	XDHZZ		B12822A32-1	15249 CUSHION, SUPPORT	EA	2
8	3	XDHZZ		B12822A33-1	15249 PLATE, IDENT, SET	EA	1
8	4	XDHZZ		B12822A32-3	15249 CUSHION, SUPPORT	EA	2
8	5	XDHZZ		A12822A56	15249 CLIP, HANDLE	EA	1
8	6	XDHZZ		B12822A58	15249 HANDLE, SLIP LK	EA	1
8	7	XDHZZ		A12822A57	15249 LINK, HANDLE	EA	1
8	8	PAHZZ	5330-00-138-6311	A12822A59	14671 GASKET, CRYG CASE	EA	1
8	9	XDHZZ		B12822S10	15249 SUPPORT, SP TUBE	EA	1
8	10	XDHZZ		B12822A33-2	15249 PLATE, IDENT, UNIT	EA	1
8	11	PAHZZ	5340-00-205-5184	SCB83314	80063 FASTENER, LATCH	EA	2
8	12	XDHZZ		B12822A32-2	15249 CUSHION, SUPPORT	EA	2

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

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.
5310-00-045-3299	4	12	5305-00-685-1800	4	17
6665-00-069-3031	2	10	5999-00-685-9470	1	8
5905-00-105-7764	5	18	5905-00-686-4527	5	31
5910-00-109-1987	5	2	5905-00-686-4529	5	30
5905-00-110-7622	5	32	5905-00-686-4530	6	5
5935-00-118-8221	2	27	5960-00-686-9101	7	22
5330-00-138-6311	8	8	5905-00-686-9993	5	26
5310-00-167-0832	4	22	5905-00-688-3475	2	29
5310-00-167-0833	4	11	5910-00-702-8057	5	4
5340-00-205-5184	8	11	5905-00-721-0552	2	30
5330-00-222-2767	4	7	5905-00-726-5345	5	29
5905-00-246-9396	6	6	5905-00-726-5346	5	25
5330-00-260-9311	7	10	5905-00-726-6436	5	34
5330-00-260-9311	7	13			
5305-00-281-3118	2	33	5905-00-752-3157	5	24
5330-00-542-1752	2	20	5905-00-752-3338	5	19
5330-00-542-1753	4	32	5905-00-752-3340	5	21
5960-00-542-6544	7	18	5961-00-752-5229	5	16
5905-00-556-3350	2	11	5905-00-800-3481	5	28
5961-00-577-6084	5	13	5905-00-816-8554	5	27
5905-00-581-1394	2	37	5910-00-822-3766	2	34
5940-00-581-4712	4	33	5910-00-823-1538	5	1
5960-00-583-4410	5	17	5961-00-824-8449	5	14
5999-00-593-3805	7	23	5950-00-832-4878	6	7
5930-00-615-1383	3	9	6665-00-832-6157	1	9
6665-00-632-9218	7	11	6665-00-832-6159	1	4
5965-00-651-7372	1	10	6665-00-832-6161	2	22
5355-00-656-1275	3	6	6665-00-832-6162	2	7
5961-00-669-6884	5	12	6665-00-832-6163	2	1
5961-00-669-6884	6	4	6665-00-832-6164	2	9
5970-00-675-9392	4	3	6665-00-832-6166	4	18
6665-00-675-9401	4	25	6665-00-832-6167	4	2
6665-00-675-9419	7	30	6665-00-832-6168	4	14
6665-00-675-9422	7	25	5310-00-832-6495	3	8
6665-00-676-6330	7	16	5961-00-852-5171	5	15
5905-00-681-8818	5	22	6240-00-898-9896	2	12
5905-00-681-8820	5	23	5995-00-921-1285	7	8
5905-00-681-9969	5	20	5930-00-932-9271	2	32
5999-00-683-1338	4	20	5340-00-936-3019	4	5
6665-00-683-1339	4	1	5365-00-936-3020	4	23
6665-00-683-1339	4	13	5305-00-947-7033	4	16
5975-00-683-2152	7	7	5305-00-947-7033	4	24
5975-00-683-2152	7	12	5330-00-951-3150	4	31
5905-00-683-2246	2	35	5330-00-951-3150	7	5
5905-00-683-2246	5	35	5330-00-951-3150	7	15
5910-00-683-7401	5	9	5910-00-952-8401	5	7
6665-00-684-1533	1	2	5910-00-954-5500	5	6
5305-00-685-1799	4	9			
5305-00-685-1800	3	2	5910-00-957-8583	5	8

PART NUMBER	FSCM	FIG NO	ITEM NO	PART NUMBER	FSCM	FIG NO	ITEM NO
AN340-8	88044	4	6	B12822S10	15249	8	9
AN364-832C	88044	4	10	B822A29	15249	5	11
AN515-618	88044	4	21	CK60AX221M	81349	2	34
AN515C3-4	88044	4	27	CK63AY103M	81349	5	2
AN515C6-12	88044	7	2	CK63AY103X	81349	6	1
AN6227-B5	96906	7	13	CK68AW103M	81349	6	2
AN6227B5	88044	7	10	CL65BB561MP3	81349	5	5
AN935-8L	88044	4	12	CM05FD151G03	81349	5	6
AN960-6L	88044	4	22	CM05FD331G03	81349	5	4
AN960-8L	88044	4	11	CM06FD392G03	81349	5	7
A12822AD38	15249	2	22	CM06F152J03	81349	5	8
A12822AD39	15249	2	7	CP05A1KC153K3	81349	5	9
A12822A44-2	15249	1	3	CP05A1KC223K3	81349	5	1
A12822A46	15249	8	1	CS12AC820K	81349	5	3
A12822A53	15249	2	18	CS12BE225K	81349	5	10
A12822A56	15249	8	5	CY4995PDR27R	80058	1	9
A12822A57	15249	8	7	C12822A13E	15249	2	21
A12822A59	14671	8	8	C12822A42	15249	2	31
B12822A32-1	15249	8	2	C12822A48-1	15249	2	8
B12822A32-2	15249	8	12	C12822A51	15249	2	9
B12822A32-3	15249	8	4	C12822PC288	15249	6	9
B12822A33-1	15249	8	3	DT196PDR27J	80058	1	2
B12822A33-2	15249	8	10	H43BU	80058	1	10
B12822A33-3	15249	3	7	IM-203/PDR-27R	80058	1	1
B12822A47	15249	2	1	MR36M201	81349	2	10
B12822A58	15249	8	6	MS29513-26	96906	4	31

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER	FIG. FSCM	ITEM NO.	PART NUMBER	FIG. FSCM	ITEM NO.
MS29513-26	96906	7	312B	33135	2
MS29513-26	96906	7	320/505	97913	2
MX7338PDR27R	80058	1	323	79963	4
M39012-25-0006	81349	4	4-40 UNC-2B	12360	2
NO.1/4	12360	2	4-40 UNC-2B	12360	2
NO.4	12360	2	4-40 UNC-2BX1/2	12360	2
NO.4	12360	2	4-40 UNC-2BX1/2	12360	2
NO.4	12360	2	4728	866	2
NO.4	12360	2	521-11272	15249	3
NO.6	12360	2	521-11312	15249	2
NO.6	12360	2	521-11313	15249	3
RCR07G222JS	81349	5	521-11314	15249	4
RCR07G682JS	81349	5	521-11316	15249	7
RCR20G226JS	81349	6	521-11317	15249	7
RC07GF102K	81349	5	521-11318	15249	7
RC07GF103K	81349	5	521-11319	15249	4
RC07GF104K	81349	6	521-11321	15249	3
RC07GF105K	81349	2	521-11323	15249	7
RC07GF123K	81349	5	521-11324	15249	7
RC07GF124K	81349	5	521-11325	15249	7
			521-11326	15249	7
RC07GF154K	81349	5	521-11327	15249	7
RC07GF155K	81349	5	521-11327	15249	7
RC07GF182K	81349	5	521-11328	15249	7
			521-11329	15249	7
			521-11330	15249	7
RC07GF272K	81349	5	521-11348	15249	7
RC07GF273K	81349	5	521-11353-2	15249	7
RC07GF332J	81349	5	521-11355	15249	7
RC07GF333K	81349	5	521-11356-5	15249	1
RC07GF472K	81349	5	521-11359	15249	3
RC07GF473J	81349	2	521-11364	15249	4
RC07GF473J	81349	5	521-11364	15249	4
RC07GF474K	81349	2	521-11365	15294	3
RE10D2378A	80064	7	521-11371	15249	4
RV4NAYS103A	81349	2	521-11372	15249	4
RV6NAYS104A	81349	2	521-11373	15249	4
SCB83314	80063	8	521-11374	15249	4
SE-45	61957	4	521-11374	15249	4
SE-46	61957	4	521-11375	14671	4
SKT-5BC	98291	2	521-11377	15249	7
SMB454556	80063	5	521-11378	15249	4
SMB454556	80063	6	521-11379	15249	7
SR02	15249	2	521-11383	15249	4
ST-250-L5	98291	2	521-11398	15249	3
ST136PDR27J	80058	1	521-11401	15249	7
T1-767	24765	6	521-11412	15249	7
UG-290A/U	15249	4	521-11414	15249	3
340	80874	1	521-11414	15249	4
1/4-32 NEF-2A	12360	2	521-1320048	15249	2
1N277	81349	5	521-1940004	15249	4
1N277	81349	6	521-3131514	15249	7
1N547	80131	6	521-3231551	15249	4
1N645	81349	5	521-3231552	15249	4
10CS	58854	2	521-3241517	15249	4
1320047A	15249	4	521-3241519	15249	4
1454	83330	7	521-3651527	15249	3
146	76786	1	5979	81349	7
2N1711	80131	5	5980	81349	7
2N388	80131	5	6-32UNC-2BX1/2	12360	2
2N396A	81349	5	6007-022-940-002	91662	2
2N404	81349	5	79NC1-62	72962	7
250-10-30-170	71785	2	902-1	86579	4
30-1	81073	3			

LATEST NATIONAL STOCK NUMBER ASSIGNMENTS

STOCK NUMBER	FIG. NO.	ITEM NO.
5905-00-687-0002	5	33
5935-00-885-2264	4	29

LATEST PART NUMBER ASSIGNMENTS

PART NUMBER	FIG. FSCM	ITEM NO.
RC07GF153J	81349	5
RC07GF223J	81349	5
RC07GF244J	81349	5

By Order of the Secretary of the Army:

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RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL MANUALS



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DATE

23 Jan 74

TITLE

Radar Set AN/SPG-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.
2-25	2-28		
3-10	3-3		3-1
5-6	5-8		
		FO3	

Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF antenna lag rather than 1°.

REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 25 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2° without degradation of operation.

Item 5, Function column. Change "2 db" to "3db."

REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.

Add new step f.1 to read, "Replace cover plate removed in step e.1, above."

REASON: To replace the cover plate.

Zone C 3. On J1-2, change "+24 VDC to "+5 VDC."

REASON: This is the output line of the 5 VDC power supply. + 24 VDC is the input voltage.

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SSG I. M. DeSpirito 999-1776

SIGN HERE:

SSG I. M. DeSpirito

DA FORM 2028-2
1 AUG 74

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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.

TEAR ALONG PERFORATED LINE

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FOLD BACK

TEAR ALONG DOTTED LINE

The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigrams = .035 ounce
 1 dekagram = 10 grams = .35 ounce
 1 hectogram = 10 dekagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.81 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	To	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

Temperature (Exact)

°F Fahrenheit temperature 5/9 (after subtracting 32) Celsius temperature °C

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