

T.O. 33A1-12-933-14

TECHNICAL MANUAL

ILLUSTRATED PARTS BREAKDOWN

**MULTIMETER
AN/PSM-37
PART NUMBER 4D-3573
NSN 6625-00-224-2252**

FOURDEE DIVISION
EMERSON ELECTRIC CO.
CASSELBERRY, FLORIDA
CONTRACT NUMBER
F41608-76-D-0106
F41608-84-D-A384

"DISTRIBUTION STATEMENT — THIS PUBLICATION IS REQUIRED FOR OFFICIAL USE OR FOR ADMINISTRATIVE PURPOSES OR OPERATIONAL PURPOSES ONLY. DISTRIBUTION IS LIMITED TO U.S. GOVERNMENT AGENCIES. OTHER REQUESTS FOR THIS DOCUMENT MUST BE REFERRED TO SAN ANTONIO ALC/MMEDT, KELLY AFB, TEXAS 78241-5000."

PUBLISHED UNDER THE AUTHORITY OF THE SECRETARY OF THE AIR FORCE.

**BASIC AND ALL CHANGES HAVE BEEN MERGED
TO MAKE THIS A COMPLETE PUBLICATION.**

1 SEPTEMBER 1979

CHANGE 2 — 1 MAY 1985

LIST OF EFFECTIVE PAGES

Insert latest changed pages; dispose of superseded pages in accordance with applicable regulations.

Original01 Sep 79 Change21 May 85
Change130 Nov 83

Total number of pages in this manual is 34 consisting of the following:

Page No.	*Change No.	Page No.	*Change No.	Page No.	*Change No.
Title	2				
A	2				
i	0				
ii Blank	0				
1-1 - 1-5	0				
1-6 Blank	0				
2-1 - 2-10	0				
2-11	2				
2-12 - 2-13	0				
2-14 - 2-15	1				
2-16 - 2-20	0				
3-1	0				
3-2	2				
4-1	0				
4-2 Blank	0				

*Zero in this column indicates an original page.

TABLE OF CONTENTS

Section/Para	Page	Section/Para	Page
I. INTRODUCTION	1-1	1-11. REFERENCE DESIGNATION INDEX	1-2
1-1. GENERAL	1-1	II. MAINTENANCE PARTS LIST	2-1
1-3. MAINTENANCE PARTS LIST	1-1	III. NUMERICAL INDEX	3-1
1-5. Part Number	1-1	IV. REFERENCE DESIGNATION INDEX	4-1
1-6. Units Per Assembly	1-2		
1-7. SMR Coding	1-2		
1-8. Usable on Code	1-2		
1-9. NUMERICAL INDEX	1-2		

LIST OF ILLUSTRATIONS

Figure	Title	Page	Figure	Title	Page
1	Multimeter, AN/PSM-37	2-2	5	Switch Assembly (A3)	2-12
2	Cover Assembly	2-5	6	PWB Assembly (A1)	2-14
3	Accessory Set, AN/PSM-37	2-7	7	PWB Assembly Network A3A5	2-17
4	Electronics Assembly	2-9	8	Case Assembly	2-19

LIST OF TABLES

Number	Title	Page	Number	Title	Page
1-1	List of Manufacturers	1-1	1-2	AF Use of Joint Military Services Uniform SMR Coding	1-3

SECTION I

INTRODUCTION

1-1. GENERAL.

1-2. This Illustrated Parts Breakdown lists, describes, and illustrates the parts that comprise Multimeter, AN/PSM-37, part number 4D-3573, manufactured by Fourdee Inc., Casselberry, Florida. This technical order is divided into four sections. Sections II, III, and IV contain the Maintenance Parts List (MPL), Numerical Index, and Reference Designation Index; respectively. Examples on how to use Sections II, III, and IV appear at the end of Section I.

1-3. MAINTENANCE PARTS LIST.

1-4. The MPL, contained in Section II, is a breakdown of all assemblies, subassemblies, and components of Multimeter, AN/PSM-37 that can be disassembled, repaired, or replaced. Each item in the MPL is referenced to a figure and index

number. Attaching parts are listed immediately after the item they secure. The following paragraphs further describe the MPL.

1-5. PART NUMBER. All items are listed by their engineering drawing numbers with the following exceptions:

a. Parts which conform to Government Standards are listed by the applicable Government standard drawing number.

b. Parts and assemblies purchased from other vendors and used unaltered are listed by the design manufacturer's (vendor) part number. The design manufacturer is identified by code numbers following the description of the article. A List of Manufacturers containing the names, addresses, and code numbers of all applicable manufacturers is given in table 1-1.

Table 1-1. List of Manufacturers

Manufacturer's code	Manufacturer's name and address
01295	Texas Instruments, Inc. U.S. Semiconductor Group 13500 N. Central Expressway P.O. Box 5012 Dallas, TX 75222
04713	Motorola, Semiconductor Products Group 5005 East McDowell Rd. Phoenix, AZ 85008
027014	National Semiconductor, Corp. 2900 Semiconductor Dr. Santa Clara, CA 95051
54893	Hewlett-Packard, Co. Microwave Semiconductor Div. 350 W. Trimble Rd. San Jose, CA 95131

1-6. **UNITS PER ASSEMBLY.** Quantities given in the UNITS PER ASSY colun are the total used at the indicated location. For component parts indented and listed under assemblies, the quantities are those used per assembly; they are not necessarily the total used per device. For attaching parts, the quantities are those used to attach one item.

1-7. **SMR CODING.** Each assembly, subassembly, component and part listed in the MPL is annotated with Joint Military Services SMR codes in accordance with table 1-2.

1-8. **USABLE ON CODE.** The USABLE ON CODE column of the MPL is not applicable for Multimeter, AN/PSM-37.

1-9. NUMERICAL INDEX.

1-10. The Numerical Index is contained in Section III and consists of an alphabetical and numerical arrangement of all part numbers listed in the MPL. Part numbers are cross referenced to Figure and Index Number locations in the MPL. The symbol F before location indicates the item is not indexed and follows the item at the indicated location. Government Standard parts reflect only the first location of the item. Total quantity per end item appears in the Quantity Per End Item column. Since the MPL covers more than one end item configuration, the largest quantity for any one end item is reflected. The arrangement of items

is in accordance with the filing system described as follows.

a. Alphabetical and numerical arrangement starts with the first digit or letter at the left of the part number and continues from left to right, one letter or digit at a time, until the part number's position in the list is determined.

b. The alphabetical and numerical precedence followed in arranging the Numerical Index is as follows:

- Space (blank column)
- Diagonal (/)
- Period (.)
- Dash (-)
- Letters A through N, P through Z
- Numerals 0 through 9

1-11. REFERENCE DESIGNATION INDEX.

1-12. Section IV contains a list of all reference designations assigned to the electrical components shown in the MPL. The reference designations are cross referenced to Figure and Index Number locations in the MPL and to the part number of the item. The alphabetical and numerical precedence followed in arranging the Reference Designation Index is the same as that used in arranging the Numerical Index (paragraph 1-10, b).

Table 1-2. AF Use of Joint Military Services Uniform SMR Coding

SOURCE		MAINTENANCE				RECOVERABILITY	AF ERRC CODE (SEE ADDENDUM BELOW)										
		USE		REPAIR													
1st Position	2nd Position	3rd Position	4th Position	5th Position	6th Position												
P	PROCURABLE	A	STOCKED	O	REPLACE AT ORGANIZATIONAL LEVEL	Z	NO REPAIR	Z	NONREPARABLE CONDEMN AT ANY AUTHORIZED LEVEL	N	NON RECOVERABLE XB3 CONDEMN AT ANY LEVEL						
		B	INSURANCE														
		E	SEE														
K	COMPONENT OF A REPAIR KIT	F	INTERMEDIATE KIT	O	REPLACE AT ORGANIZATIONAL LEVEL	B	NO REPAIR RE CONDITION	O	REPARABLE CONDEMN AT ORGANIZATIONAL LEVEL	P	RECOVERABLE XF3 UNIT COST LESS THAN \$100						
		D	DEPOT KIT														
		B	IN BOTH KITS														
M	MANUFACTURE	O	ORGANIZATIONAL	F	REPLACE AT INTERMEDIATE LEVELS AF INTERMEDIATE DIRECT SUPPORT AFLOAT 3RD ECHELON	O	REPAIR AT ORGANIZATIONAL LEVEL	F	REPARABLE CONDEMN AT INTERMEDIATE LEVEL	L	RECOVERABLE XD3 DEPOT LINE REPLACEABLE UNIT (LRU)						
		F	INTERMEDIATE														
		D	DEPOT														
A	ASSEMBLE	O	ORGANIZATIONAL	F	REPLACE AT INTERMEDIATE LEVELS AF INTERMEDIATE DIRECT SUPPORT AFLOAT 3RD ECHELON	F	REPAIR AT INTERMEDIATE LEVELS	D	REPARABLE CONDEMN AT DEPOT LEVEL	T	RECOVERABLE XD2 CONDEMN AT DEPOT						
		F	INTERMEDIATE														
		D	DEPOT														
X	NON STOCKED	A	SEE NHA	D	REPLACE AT DEPOT LEVEL ONLY	D	REPAIR LIMITED INTERMEDIATE OVERHAUL DEPOT	L	REPARABLE CONDEMN AT DEPOT LEVEL ONLY	S	SEE XD2 DEPOT NON EXPENDABLE						
		B	RECLAMATION FROM IM														
		C	DRAWINGS OBSOLETE ETC														
												L	REPAIR DEPOT ONLY	A	SPECIAL HANDLING	U	SEE NF2 INTERMEDIATE NON EXPENDABLE

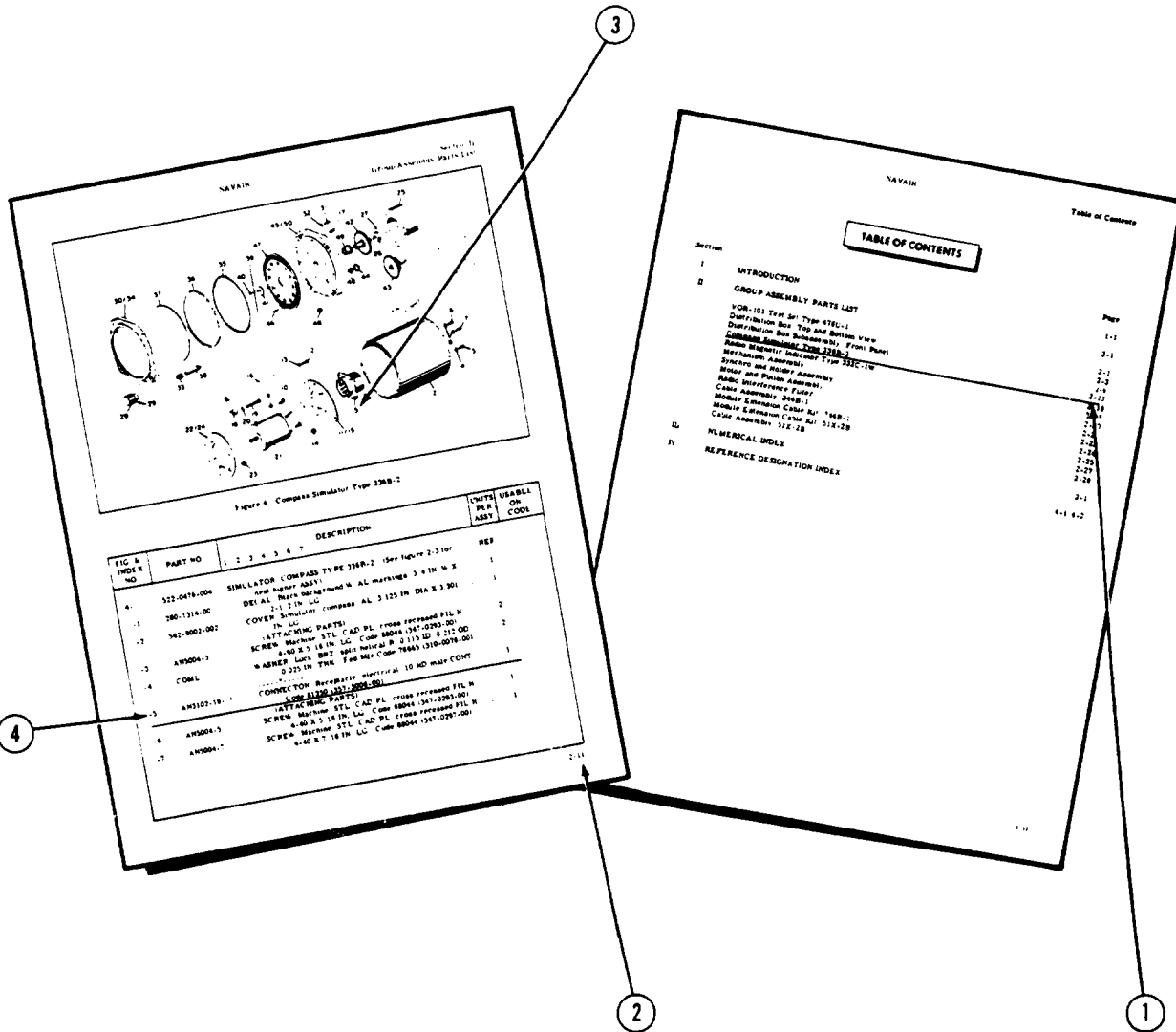
GXS 59

ERRC DESIGNATOR	ERRC CODE	EXPENDABLE	REPAIRABLE	CONDEMNATION LEVEL	MANAGEMENT CHARACTERISTICS
XD1	C	YES	YES	DEPOT	SERIALIZED CONTROL AND REPORTING SYSTEM (SCARS)
XD2	T	YES	YES	DEPOT	AF RECOVERABLE ASSEMBLY MANAGEMENT SYSTEM (AFRAMS)
XD3	L	YES	YES	DEPOT	LINE REPLACEABLE UNIT (LRU)
XF3	P	YES	YES	INTERMEDIATE	STOCK FUND (EXCEPT MUNITIONS)
XB3	N	YES	NO	USER	STOCK FUND (EXCEPT MUNITIONS)
ND2	S	NO	YES	DEPOT	AF EQUIPMENT MANAGEMENT SYSTEM (AFEMS)
NF2	U	NO	YES	INTERMEDIATE	AF EQUIPMENT MANAGEMENT SYSTEM (AFEMS)

GXS 60

HOW TO USE THIS ILLUSTRATED PARTS BREAKDOWN

SHEET 1 OF 2



WHEN THE PART NUMBER IS NOT KNOWN

- (1) Turn to the Table of Contents and find the page number for the Major Assembly, or System, in which the part is used.
- (2) Turn to the page determined in step (1).
- (3) Locate the part and its index number on the illustration.
- (4) Refer to the same index number on the Group Assembly Parts List page to determine specific information regarding the part.

HOW TO USE THIS ILLUSTRATED PARTS BREAKDOWN

SHEET 2 OF 2

The diagram illustrates the process of finding a part number or reference designation. It features three main components: a pictorial illustration of a 'Compass Simulator Type 3MB-2' (Figure 4), 'SECTION III NUMERICAL INDEX', and 'SECTION IV REFERENCE DESIGNATION INDEX'. Arrows and numbered circles (1-6) show the sequence of steps: starting from the illustration (1), moving to the Numerical Index (2), then to the Reference Designation Index (3), and finally back to the illustration (4). The Reference Designation Index is divided into two columns: 'REFERENCE DESIGNATION' and 'PART NUMBER'.

WHEN THE PART NUMBER OR REFERENCE DESIGNATION IS KNOWN

- (1) When the part number is known, refer to Section III, the Numerical Index, to find the part number. Note the figure and index number assigned to the part number.
- (2) Turn to the figure indicated and locate the index number referenced in the Numerical Index.
- (3) If a pictorial representation of the part, or its location, is desired, refer to the same index number on the accompanying illustration.
- (4) When the reference designation is known, refer to Section IV, the Reference Designation Index to locate the reference designation symbol. Note the figure and index number, and the part number.
- (5) Turn to the figure indicated and locate the index number referenced in the Reference Designation Index.
- (6) If a pictorial representation of the part, or its location, is desired, refer to the same index number on the accompanying illustration.

**SECTION II
MAINTENANCE PARTS LIST**

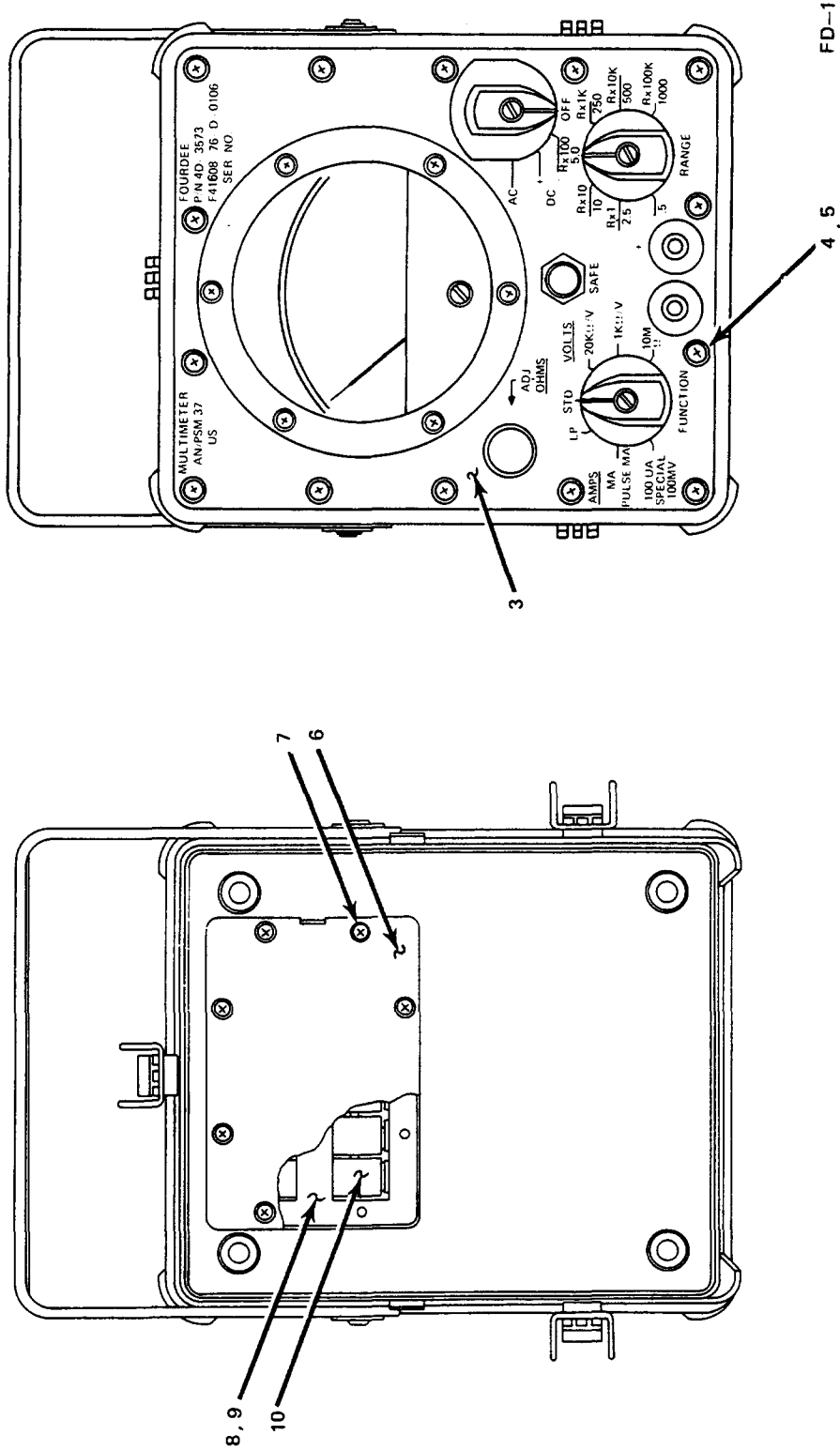


Figure 1. Multimeter, AN/PSM-37 (sheet 1 of 2)

FD-1

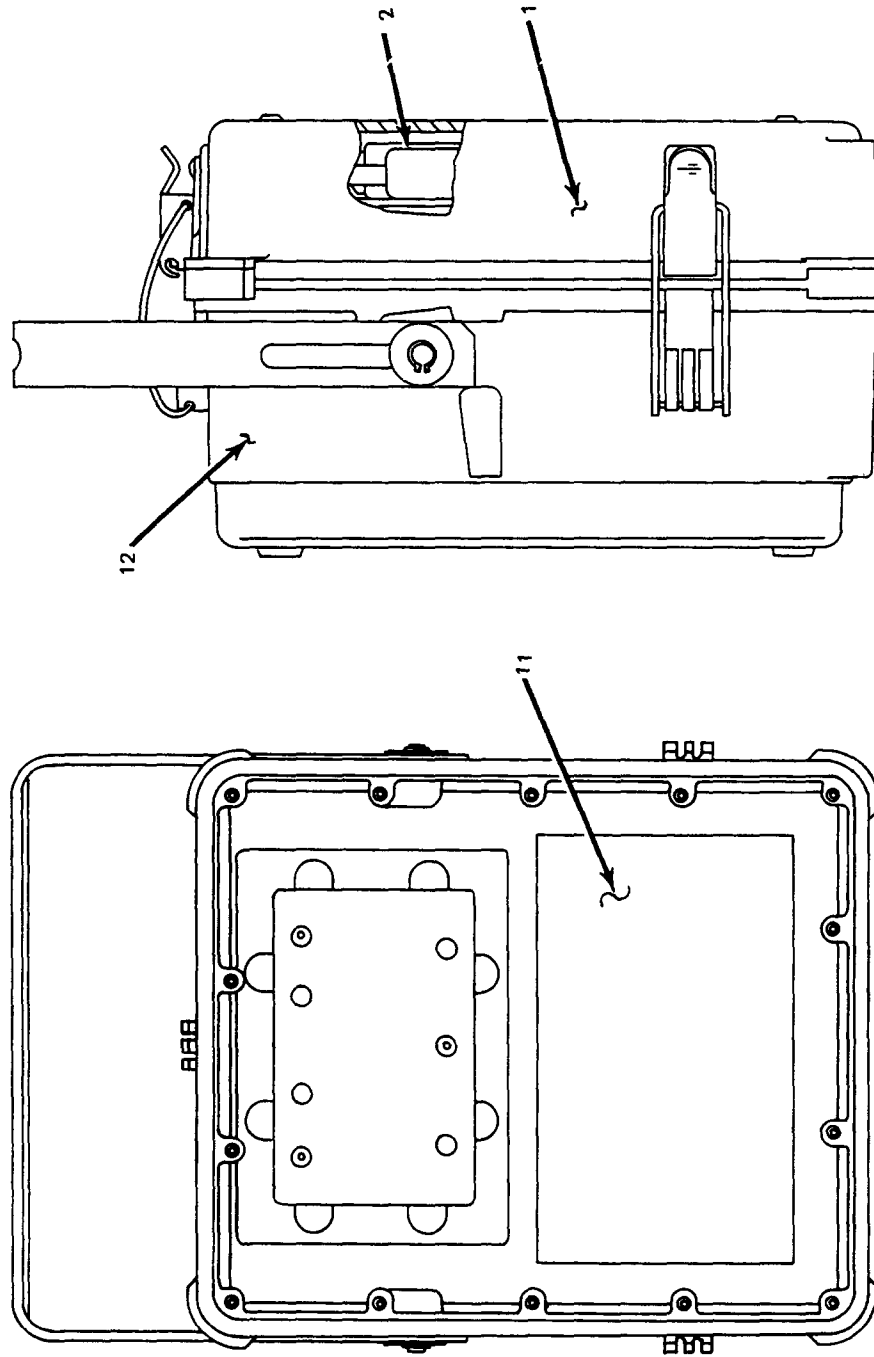
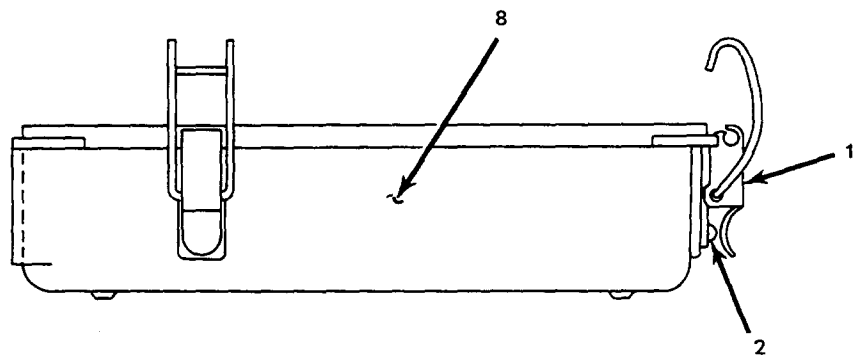
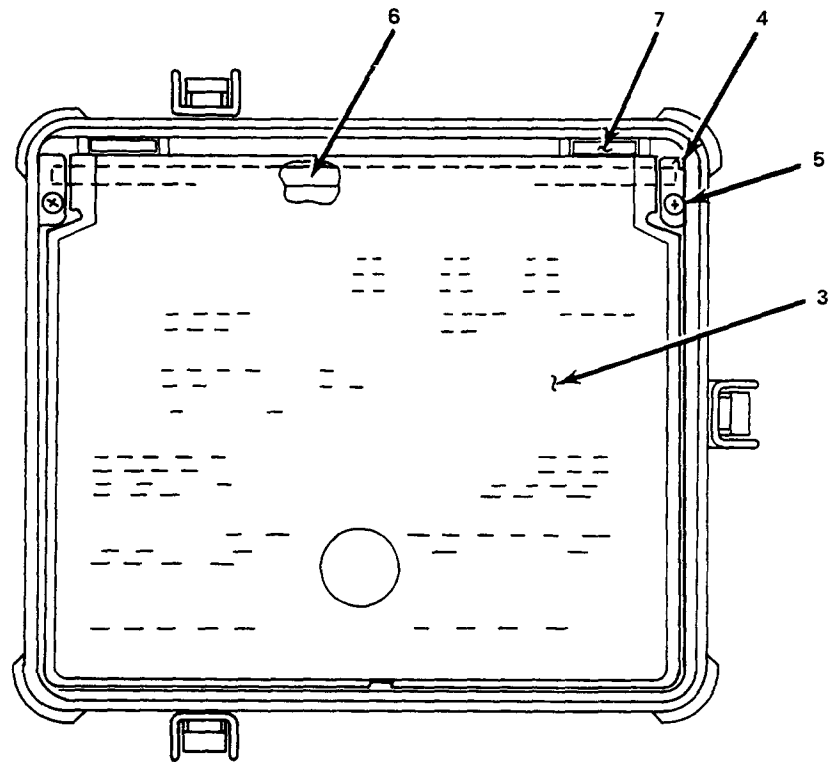


Figure 1. Multimeter, AN/PSM-37 (sheet 2 of 2)

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION					UNITS PER ASSY	SMR CODE	USABLE ON CODE
		1	2	3	4	5			
1-	4D-3573	MULTIMETER, AN/PSM-37					1		
-1	4D-3571	.	COVER ASSEMBLY (See figure 2 for detailed breakdown)				1		
-2	4D-3597	.	ACCESSORY SET, AN/PSM-37 (See figure 3 for detailed breakdown)				1		
-3	4D-3570	.	ELECTRONICS ASSEMBLY (See figure 4 for detailed breakdown)				1		
-4	MS51957-31	.	SCREW (AP)				14		
-5	MS15795-806	.	WASHER (AP)				14		
-6	4D-2684	.	COVER, Battery Compartment				1		
-7	MS51957-15	.	SCREW (AP)				8		
-8	4D-2685	.	GASKET, Battery Cover				1		
-9	4D-2686	.	GASKET, Panel				1		
-10	4D-2863	.	BATTERY				6	X	
-11	No Number	.	LABEL				1	X	
-12	4D-3572	.	CASE ASSEMBLY (See figure 8 for detailed breakdown)				1		



FD-2

Figure 2. Cover assembly

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION					UNITS PER ASSY	SMR CODE	USABLE ON CODE
		1	2	3	4	5			
2-	4D-3571	COVER ASSEMBLY (See figure 1 for NHA)					REF		
-1	4D-2865	.					3		
-2	MS16535-160	.					2		
-3	4D-2842	.					1		
-4	4D-2688	.					2		
-5	MS24630-22	.					2		
-6	4D-2687	.					1		
-7	4D-2689	.					2		
-8	4D-2682	.					1		

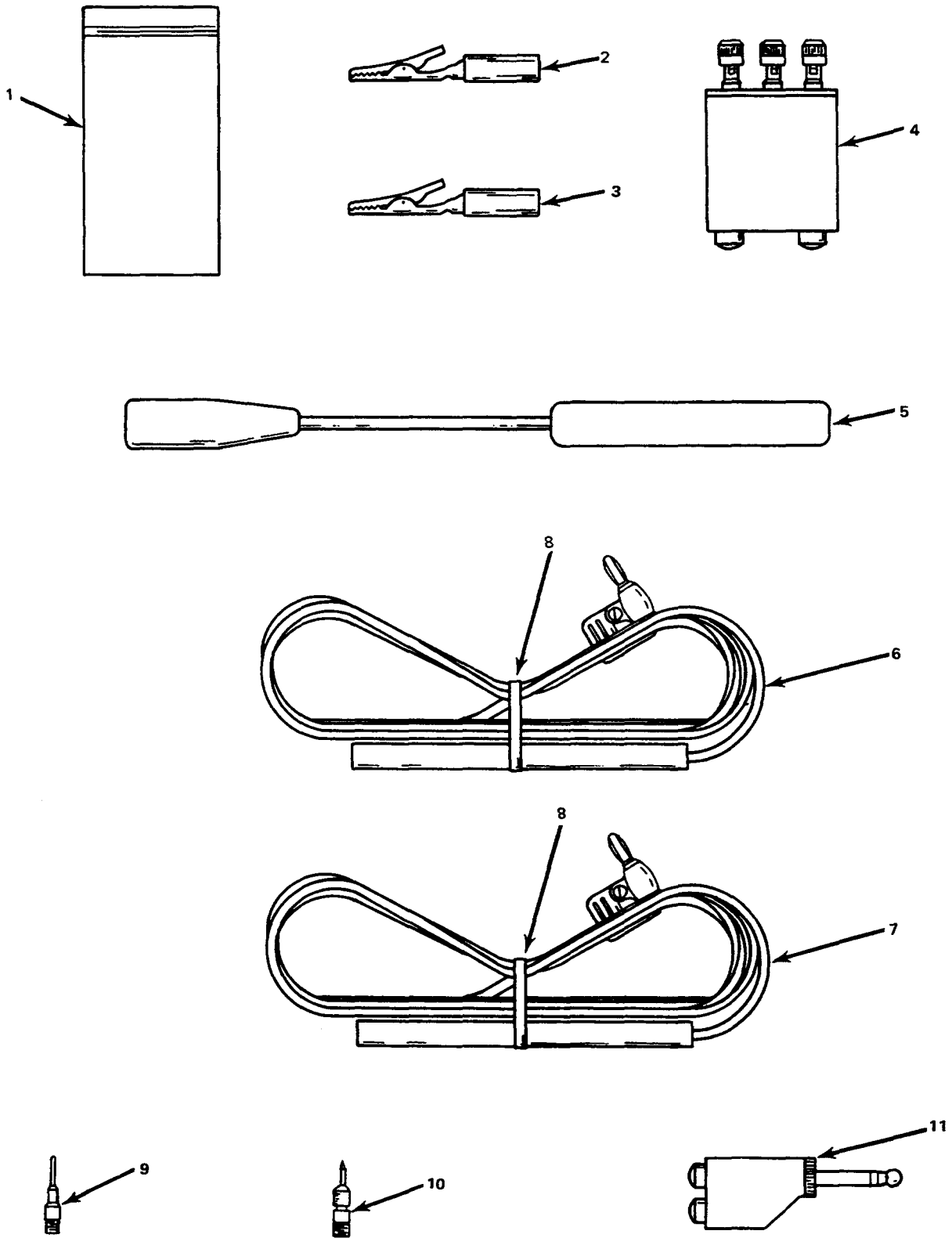


Figure 3. Accessory set, AN/PSM-37

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	SMR CODE	USABLE ON CODE
3-	4D-3597	ACCESSORY SET, AN/PSM-37 (See figure 1 for NHA)	REF		
-1	PPP-B-26	BAG, Plastic, Type 3, Style 3 (_____)	1	X	
-2	4D-3592-1	CLIP, Adapter, red	1		
-3	4D-3592-2	CLIP, Adapter, black	1		
-4	4D-3565	SHUNT, Multirange	1		
-5	4D-3566	PROD, Test MX1410/U	1		
-6	4D-3563-1	TEST LEAD, Red	1		
-7	4D-3563-2	TEST LEAD, Black	1		
-8	No Number	BAND, Elastic	2		
-9	4D-2387	ADAPTER, Phone tip	2		
-10	4D-2674	NEEDLE TIP	2		
-11	4D-3564	ADAPTER, Test MX-9128	1		

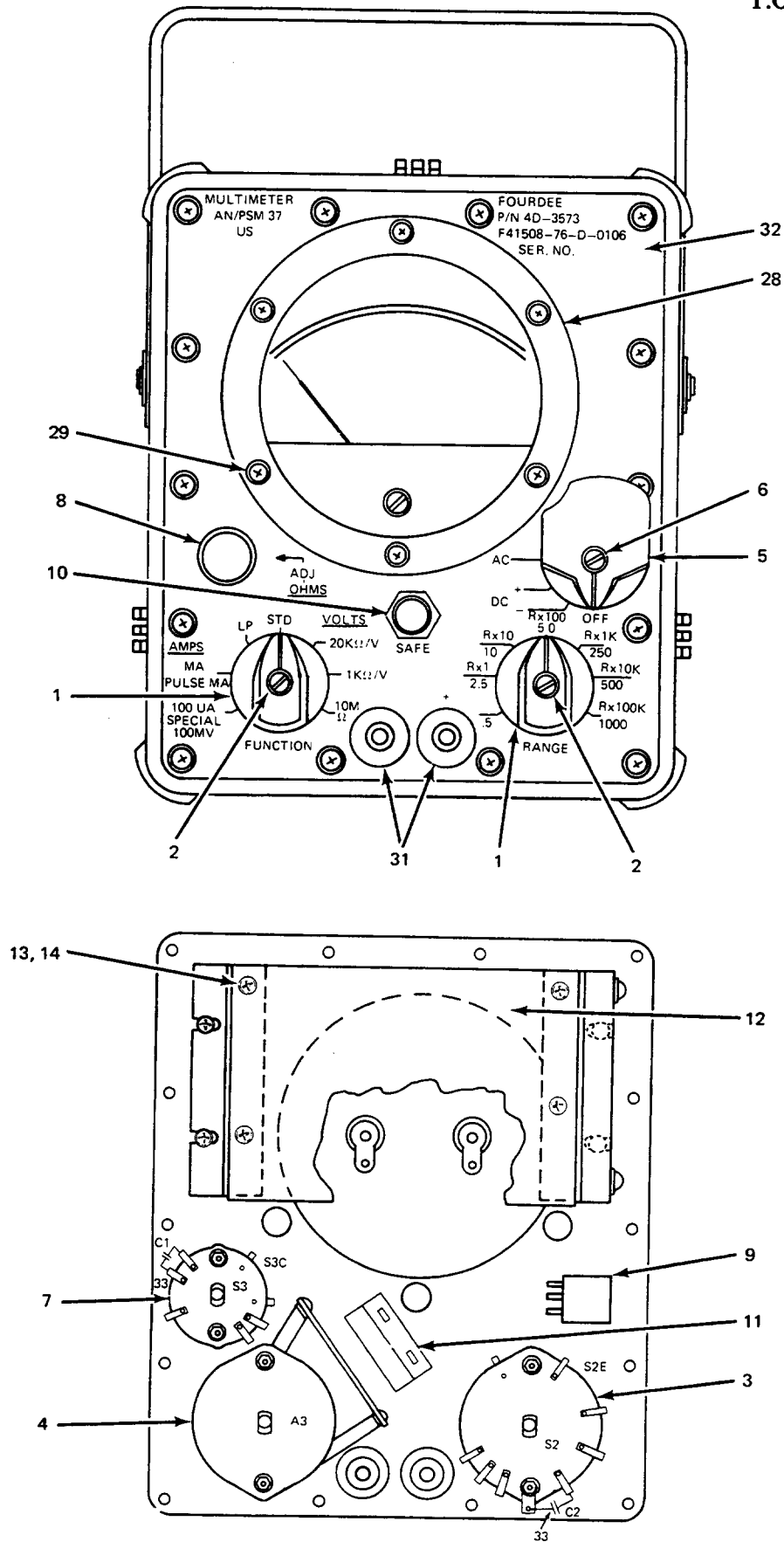
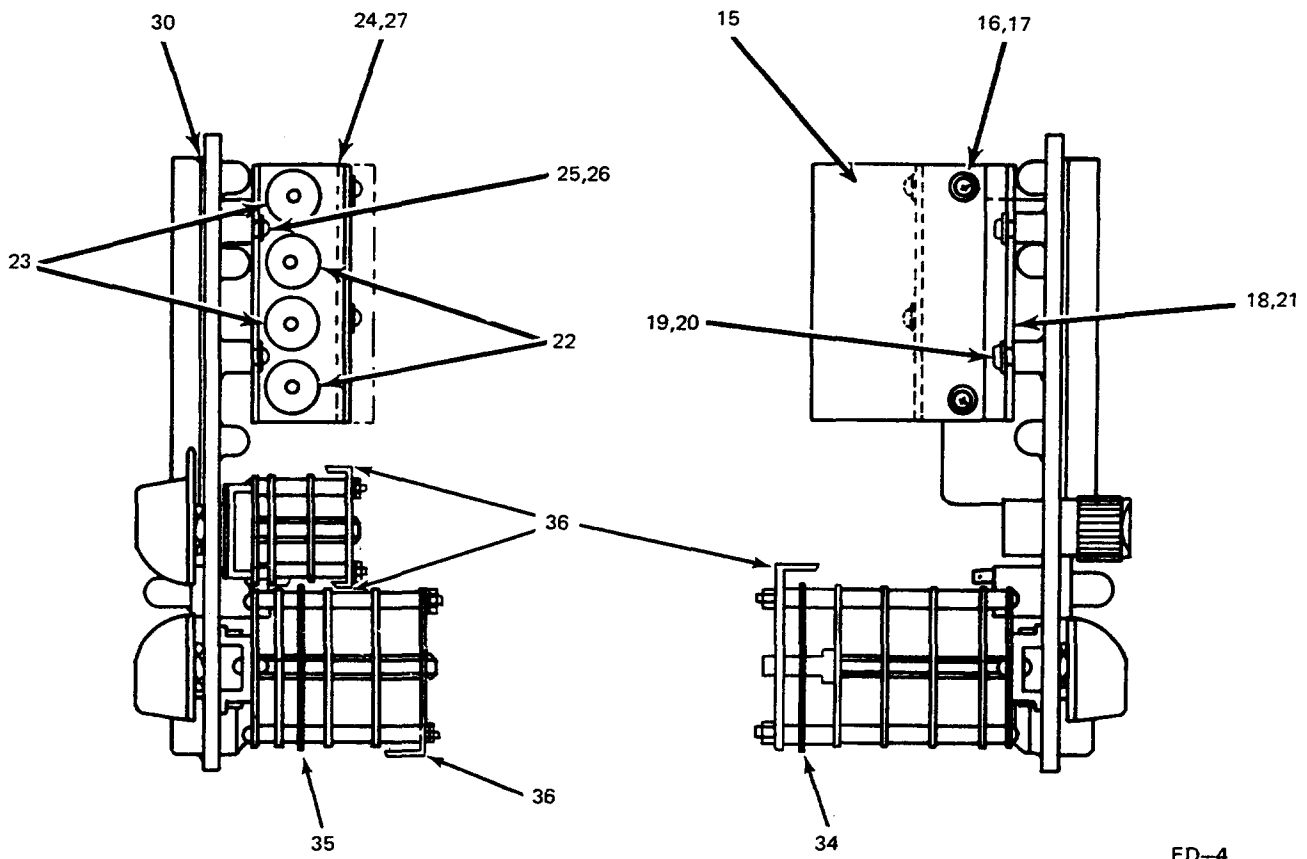


Figure 4. Electronics assembly (sheet 1 of 2)

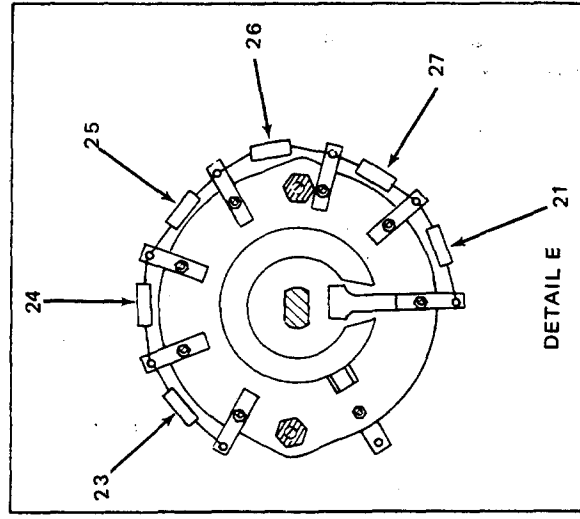
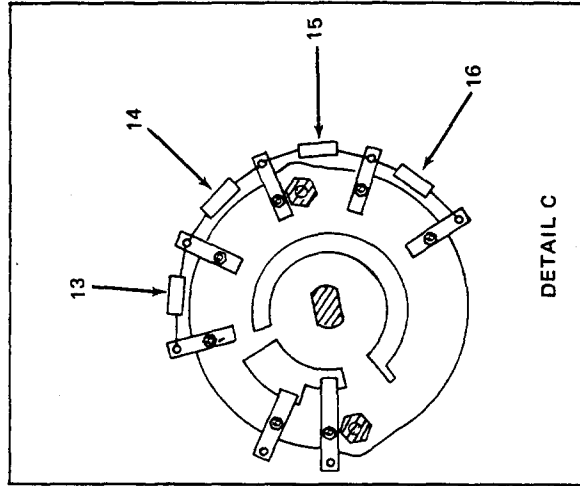
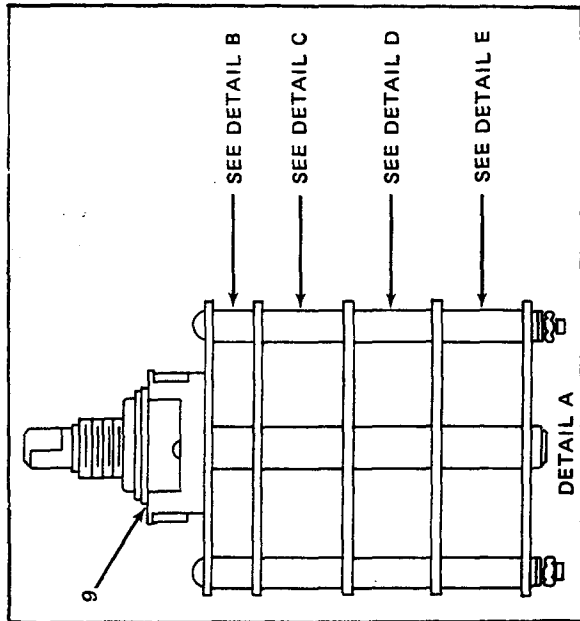
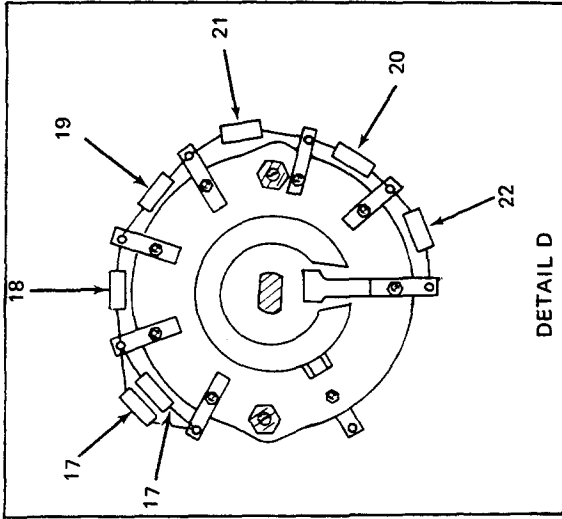
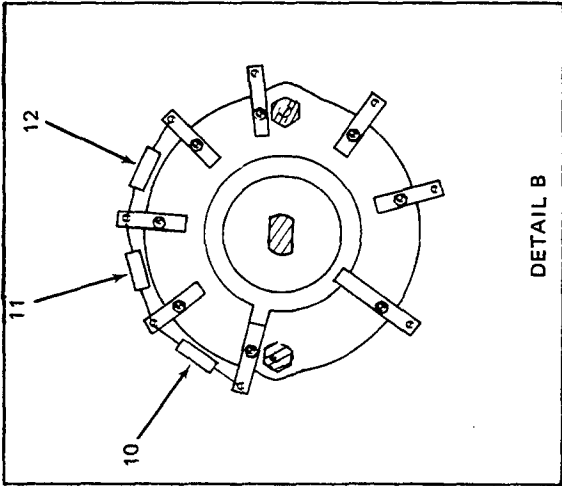
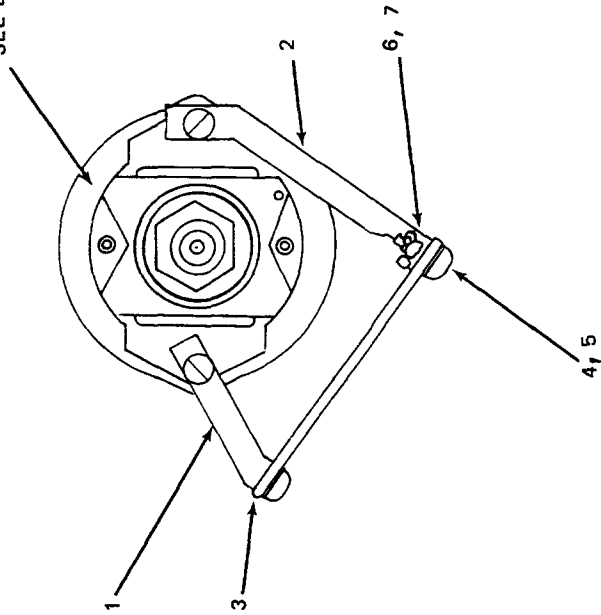


FD-4

Figure 4. Electronics assembly (sheet 2 of 2)

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	SMR CODE	USABLE ON CODE
4-	4D-3570	ELECTRONICS ASSEMBLY (See figure 1 for NHA)	REF		
-1	4D-2878	. KNOB	2		
-2	4D-2880-1	. SCREW, Nylon (AP)	1		
-3	4D-3627	. SWITCH, Wafer (S2)	1		
-4	4D-3684	. SWITCH ASSEMBLY (A3) (See figure 5 for detailed breakdown)	1		X
-5	4D-2877	. KNOB	1		
-6	4D-2880	. SCREW, Nylon (AP)	1		
-7	4D-3628	. SWITCH, Wafer (S3)	1		
-8	MS91528-1D2B	. KNOB	1		
-9	4D-3683	. RESISTOR, Variable, 5K ohm	1		
-10	MS423/07-01	. BOOT, Dust	1		
-11	4D-3666	. SWITCH, Safety	1		
-12	4D-3631	. PWB ASSEMBLY (A1) (See figure 6 for detailed breakdown)	1		X
-13	MS51957-14	. SCREW (AP)	4		
-14	MS15795-804	. WASHER (AP)	4		
-15	4D-3632	. PWB ASSEMBLY (A2)	1		X
-16	MS51957-16	. SCREW (AP)	2		
-17	MS15795-804	. WASHER (AP)	2		
-18	4D-3705	. BRACKET ASSEMBLY	1		
-19	MS51957-28	. SCREW (AP)	2		
-20	MS35338-136	. WASHER (AP)	2		
-21	M45938/7-2	. NUT, Clinch	4		
-22	1N3491R	. DIODE (_____)	2		X
-23	1N3491	. DIODE (_____)	2		X
-24	4D-3630	. HEATSINK ASSEMBLY	1		
-25	MS51957-28	. SCREW (AP)	2		
-26	MS35338-136	. WASHER (AP)	2		
-27	M45928/7-2	. NUT, Clinch	2		
-28	981	. METER (89280)	1		X
-29	4D-2880-2	. SCREW, Nylon (AP)	6		
-30	4D-2690	. GASKET, Meter	1		
-31	4D-2691	. INSERT	2		
-32	4D-2683	. PANEL, Multimeter	1		
-33	4D-3854	CAPACITOR, Ceramic, 0.01 μ F	2		
-34		. SHIELD (S2 switch)	1		
-35		. SHIELD (A3 switch)	1		
-36		. GROUND LUG	4		

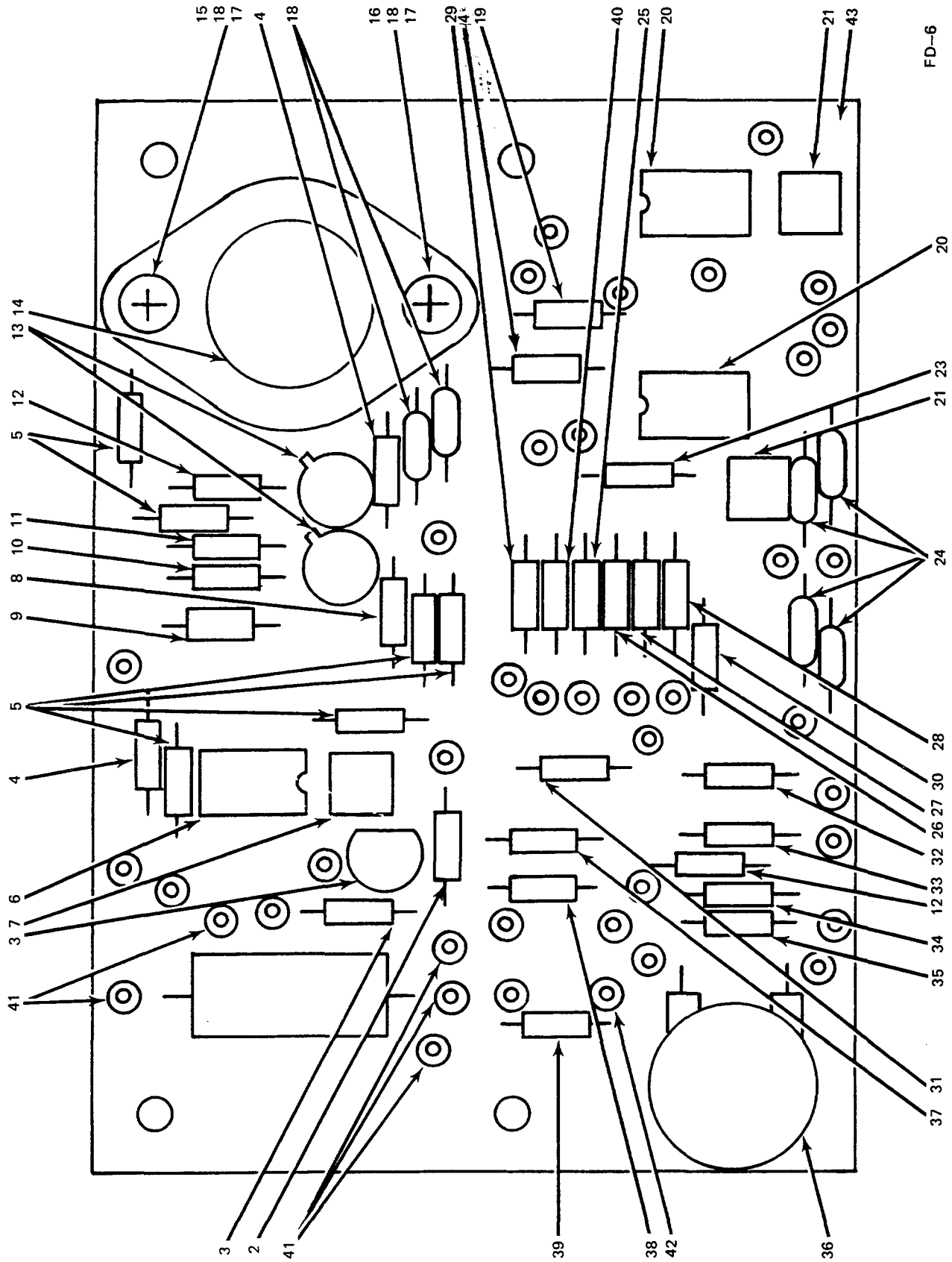
SEE DETAIL A



FD-5

Figure 5. Switch assembly (A3)

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION					UNITS PER ASSY	SMR CODE	USABLE ON CODE
		1	2	3	4	5			
5-	4D-3684	SWITCH ASSEMBLY (A3) (See figure 4 for NHA)					REF		
-1	4D-3790	.	BRACKET, PWB mounting				1		
-2	4D-3789	.	BRACKET, PWB mounting				1		
-3	4D-3791	.	PWB ASSEMBLY NETWORK (A3A1) (See figure 7 for detailed breakdown)				1		
-4	MS51957-18	.	SCREW (AP)				4		
-5	MS15795-804	.	WASHER (AP)				4		
-6	MS35649-244	.	NUT (AP)				4		
-7	MS35338-135	.	WASHER (AP)				4		
-9	4D-3626	.	SWITCH, Wafer (A3S1)				1		
-10	RLR07C80R6FR	.	RESISTOR (MIL-R-39017/1)				1		
-11	RLR07C15R0FR	.	RESISTOR (MIL-R-39017/1)				1		
-12	RLR07C4R02FR	.	RESISTOR (MIL-R-39017/1)				1		
-13	RLR07C1784FR	.	RESISTOR (MIL-R-39017/1)				1		
-14	RLR07C1783FR	.	RESISTOR (MIL-R-39017/1)				1		
-15	RLR07C1782FR	.	RESISTOR (MIL-R-39017/1)				1		
-16	RLR07C1781FR	.	RESISTOR (MIL-R-39017/1)				1		
-17	RLR07C1004FR	.	RESISTOR (MIL-R-39017/1)				2		
-18	RLR072493FR	.	RESISTOR (MIL-R-39017/1)				1		
-19	RLR07C2003FR	.	RESISTOR (MIL-R-39017/1)				1		
-20	RLR07C7501FR	.	RESISTOR (MIL-R-39017/1)				1		
-21	RLR07C4022FR	.	RESISTOR (MIL-R-39017/1)				2		
-22	RLR07C2001FR	.	RESISTOR (MIL-R-39017/1)				1		
-23	RLR07C1005FR	.	RESISTOR (MIL-R-39017/1)				1		
-24	RLR07C4994FR	.	RESISTOR (MIL-R-39017/1)				1		
-25	RLR07C4024FR	.	RESISTOR (MIL-R-39017/1)				1		
-26	RLR07C8063FR	.	RESISTOR (MIL-R-39017/1)				1		
-27	RLR07C1503FR	.	RESISTOR (MIL-R-39017/1)				1		

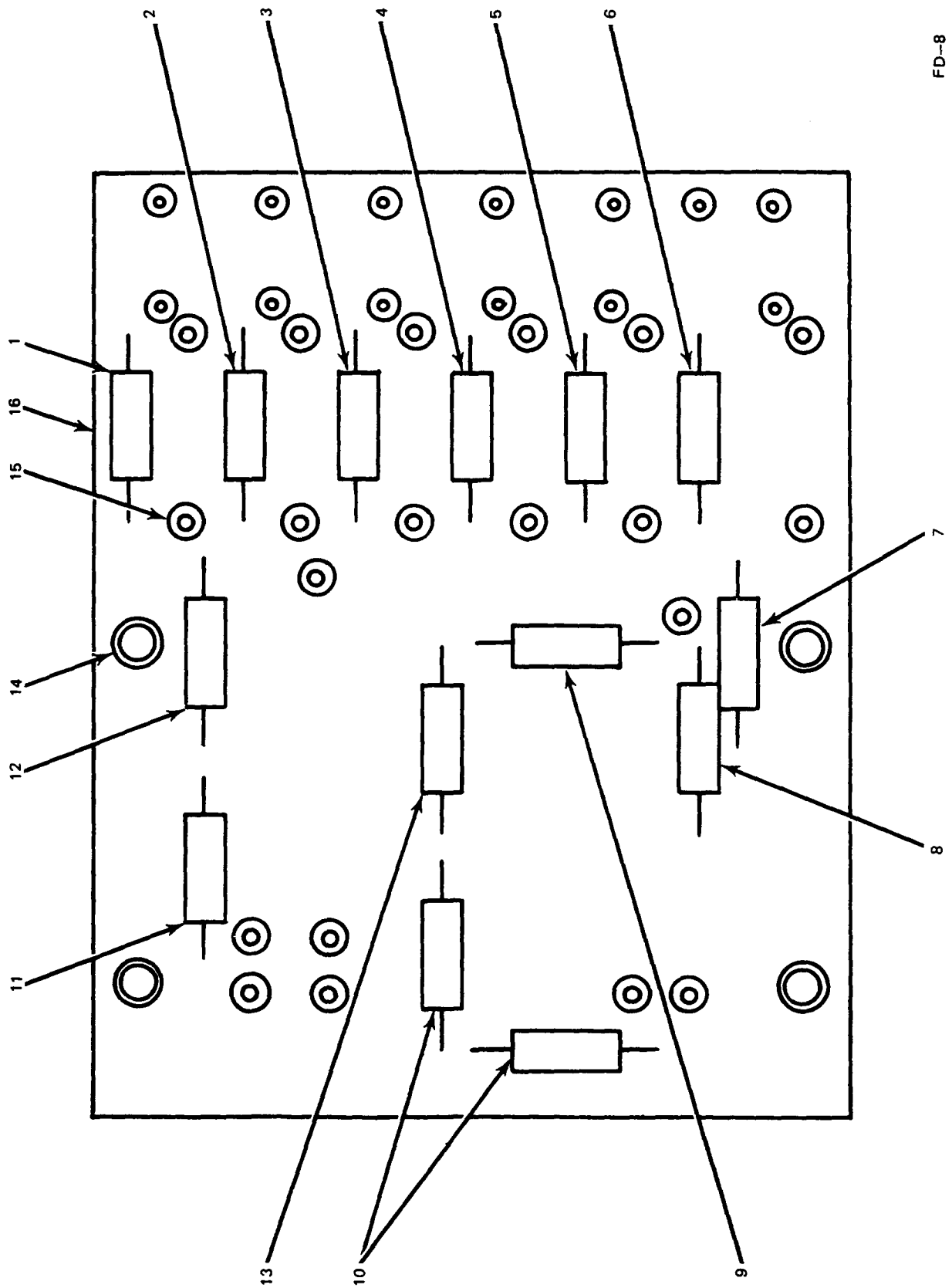


FD-6

Figure 6. PWB assembly (AI)

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	SMR CODE	USABLE ON CODE
6-	4D-3631	PWB ASSEMBLY (A1) (See figure 4 for NHA)	REF		
-1	4D-3688	RESISTOR PACK (A4)	1		
-2		RESISTOR (MIL-R-55182/3) (R15) To be selected from one of the following:	1		
-2	RNR60K3700DR		1		
-2	RNR60K3740DR		1		
-2	RNR60K3790DR		1		
-2	RNR60K3830DR		1		
-2	RNR60K3880DR		1		
-2	RNR60K3920DR		1		
-3	2N5457	TRANSISTOR (Q1) (_____) (Fourdee Spec Cont Dwg 4D-3691)	1		X
-4	RLR07C4991FR	RESISTOR (MIL-R-39017/1) (R2, R4, R5)	3		
-5	RLR07C3493FR	RESISTOR (MIL-R-39017/1) (R9 thru R14)	6		
-6	TL066CP	INTEGRATED CIRCUIT (01295) (U1) (Fourdee Source Cont Dwg 4D-3687)	1		X
-7	4D-2983-2	RESISTOR, Variable, 10K ohm, (R1)	1		
-8	RCR07C15R0FR	RESISTOR (MIL-39017/1) (R3)	1		
-9	M39003/01-2242	CAPACITOR (MIL-C-39003/1) (C1)	1		
-10	RLR07C1003FR	RESISTOR (MIL-R-39017/1) (R7)	1		
-11	RLR07C10R0FR	RESISTOR (MIL-R-39017/1) (R8)	1		
-12	RLR07C2001FR	RESISTOR (MIL-R-39017/1) (R6, R32)	2		
-13	JAN2N2222	TRANSISTOR (MIL-S-19500/255) (Q2, Q4)	2		
-14	MJ205	TRANSISTOR (04713) (Q3) (Fourdee Source Cont Dwg 4D-3693)	1		X
-15	MS51957-29	SCREW (AP)	2		
-16	MS35338-136	WASHER (AP)	2		
-17	MS35649-264	NUT (AP)	2		
-18	1N4007	DIODE (_____) (CR1, CR2) (Fourdee Spec Cont Dwg 4D-3692)	2		
-19	RLR07C4993FR	RESISTOR (MIL-R-39017/1) (R36, R38)	2		
-20	LF351N	INTEGRATED CIRCUIT (27014) (U2) (Fourdee Spec Cont Dwg 4D-3842)	1		X
-21	4D-3682	RESISTOR, Variable, 5K ohm (R16, R19)	2		X
-22	LF351N	INTEGRATED CIRCUIT (01295) (U3) (Fourdee Spec Cont Dwg 4D-3822)	1		
-23	RLR07C2003FR	RESISTOR (MIL-R-39017/1) (R18)	1		
-24	1N6263	DIODE (54893) (CR3 thru CR6) (Fourdee Source Cont Dwg 4D-3694)	4		
-25	RLR05C1001FR	RESISTOR (MIL-R-39017/5) (R21)	1		
-26	RLR05C2672FR	RESISTOR (MIL-R-39017/5) (R22)	1		
-27	RLR05C3742FR	RESISTOR (MIL-R-39017/5) (R23)	1		
-28	RLR05C2002FR	RESISTOR (MIL-R-39017/5) (R24)	1		
-29	RLR07C1871RF	RESISTOR (MIL-R-39017/5) (R39)	1		
-30	CKR05B471K	CAPACITOR (MIL-C-39014) (C3)	1		
-31	RLR07C1005FR	RESISTOR (MIL-R-39017/1) (R29)	1		

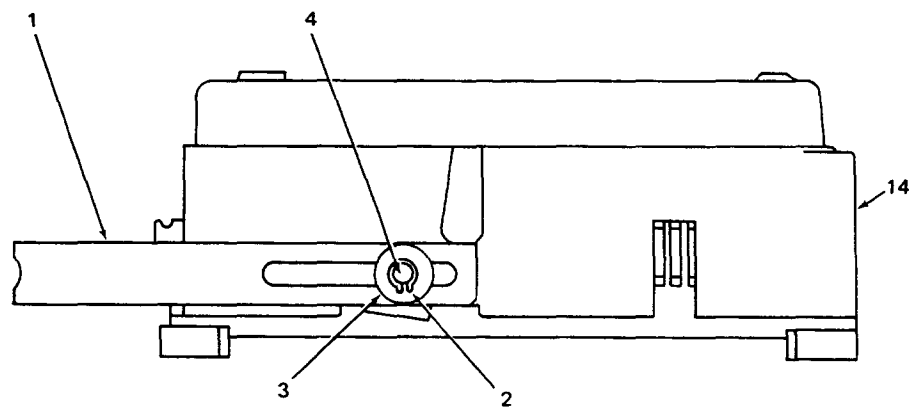
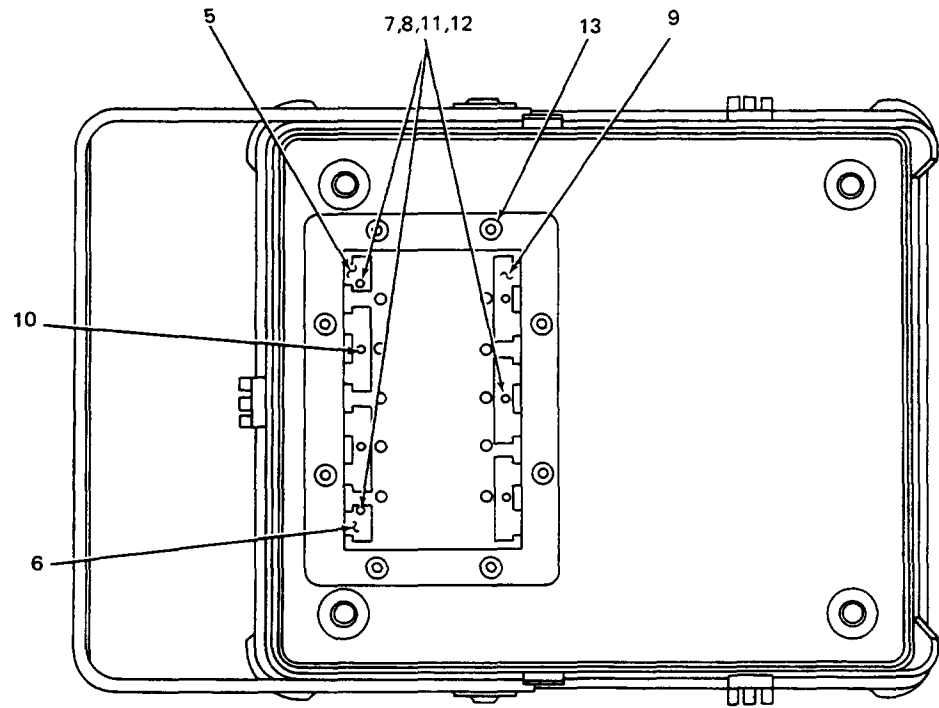
FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION					UNITS PER ASSY	SMR CODE	USABLE ON CODE
		1	2	3	4	5			
6-									
-32	RLR07C1001FR	.				RESISTOR (MIL-R-39017/1) (R30)	1		
-33	RLR07C8061FR	.				RESISTOR (MIL-R-39017/1) (R33)	1		
-34	RLR07C1000FR	.				RESISTOR (MIL-R-39017/1) (R34)	1		
-35	RLR07C4020FR	.				RESISTOR (MIL-R-39017/1) (R35)	1		
-36	4D-3686	.				CAPACITOR, Ceramic, 0.1 μ f (C5)	1		
-37	RLR07C2020FR	.				RESISTOR (MIL-R-39017/1) (R25)	1		
-38	RLR07C1780FR	.				RESISTOR (MIL-R-39017/1) (R37)	1		
-39	RLR05C1622FR	.				RESISTOR (MIL-R-39017/5) (R31)	1		
-40	RLR05C2001FR	.				RESISTOR (MIL-R-39017/5) (R20)	1		
-41	4D-3697-3	.				EYELET (E25 thru E29)	5	X	
-42	4D-3697-1	.				EYELET (E1 thru E24) (E30 thru E41)	36	X	
-43	4D-3629	.				PRINTED WIRING BOARD	1		



FD-8

Figure 7. PWB assembly network A3A5

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION					UNITS PER ASSY	SMR CODE	USABLE ON CODE
		1	2	3	4	5			
7-	4D-3791	PWB ASSEMBLY NETWORK (A3A1) (See figure 5 for NHA)					REF		
-1	RLR07C1001FR	.	RESISTOR (MIL-R-39017/1) (R1)				1		
-2	RLR07C2001FR	.	RESISTOR (MIL-R-39017/1) (R2)				1		
-3	RLR07C4021FR	.	RESISTOR (MIL-R-39017/1) (R3)				1		
-4	RLR07C2002FR	.	RESISTOR (MIL-R-39017/1) (R4)				1		
-5	RLR07C1023FR	.	RESISTOR (MIL-R-39017/1) (R5)				1		
-6	RLR07C4323FR	.	RESISTOR (MIL-R-39017/1) (R6)				1		
-7	RLR07C4994FR	.	RESISTOR (MIL-R-39017/1) (R14)				1		
-8	RLR07C5014FR	.	RESISTOR (MIL-R-39017/1) (R13)				1		
-9	RLR07C2214FR	.	RESISTOR (MIL-R-39017/1) (R12)				1		
-10	RLR07C2674FR	.	RESISTOR (MIL-R-39017/1) (R9, R10, R11)				3		
-11	RLR07C1584FR	.	RESISTOR (MIL-R-39017/1) (R8)				1		
-12	RLR07C1784FR	.	RESISTOR (MIL-R-39017/1) (R7)				1		
-13	4D-3853-1	STANDOFF, PC card					4		
-14	4D-3597-1	EYELET, Tunnel (E1-E33)					33		
-15	4D-3778	PWB NETWORK					1		



FD-9

Figure 8. Case assembly

FIGURE & INDEX NO.	PART NUMBER	DESCRIPTION					UNITS PER ASSY	SMR CODE	USABLE ON CODE
		1	2	3	4	5			
8-	4D-3572	CASE ASSEMBLY (See figure 1 for NHA)					REF		
-1	4D-2692	.					1		
-2	MS16624-4025	.					2		
-3	4D-2841	.					2	X	
-4	4D-2840	.					2		
-5	4D-2843-2	.					1		
-6	4D-2843-3	.					1		
-7	MS35214-2	.					1		
-8	4D-3621	.					1		
-9	4D-2843-1	.					5		
-10	MS24630-2	.					1		
-11	MS35214-2	.					1		
-12	4D-3621	.					1		
-13	4D-3672-3	.					8		
-14	4D-3681	.					1		

SECTION III
NUMERICAL INDEX

PART NUMBER	FIGURE & INDEX NO.	QTY PER END ITEM
CKR05B471K	6-30	1
JAN2N2222	6-13	2
LF351N	6-20	2
M39003/01-2242	6-9	1
M45928/7-2	4-27	2
M45938/7-2	4-21	4
M5423/07-01	4-10	1
MJ205	6-14	1
MS15795-804	4-14	10
MS15795-806	1-5	14
MS16535-160	2-2	2
MS16624-4025	8-2	2
MS24630-2	8-10	1
MS24630-22	2-5	2
MS35214-2	8-7	2
MS35338-135	5-7	4
MS35338-136	4-20	6
MS35649-244	5-6	4
MS35649-264	6-17	2
MS51957-14	4-13	4
MS51957-15	1-7	8
MS51957-16	4-16	2
MS51957-18	5-4	4
MS51957-28	4-19	4
MS51957-29	6-15	2
MS51957-31	1-4	14
MS91528-1D2B	4-8	1
PPP-B-26	3-1	1
RCR07C15R0FR	6-8	1
RNR60K3700DR	6-2	1
(Selectable)		
RNR60K3740DR	6-2	1
(Selectable)		
RNR60K3790DR	6-2	1
(Selectable)		
RNR60K3830DR	6-2	1
(Selectable)		
RNR60K3880DR	6-2	1
(Selectable)		
RNR60K3920DR	6-2	1
(Selectable)		
RLR05C1001FR	6-25	1

PART NUMBER	FIGURE & INDEX NO.	QTY PER END ITEM
RLR05C1622FR	6-39	1
RLR05C2001FR	6-40	1
RLR05C2002FR	6-28	1
RLR05C2672FR	6-26	1
RLR05C3742FR	6-27	1
RLR07C15R0FR	5-11	1
RLR07C10R0FR	6-11	1
RLR07C1000FR	6-34	1
RLR07C1001FR	6-32	2
	7-1	
RLR07C1003FR	6-10	1
RLR07C1004FR	5-17	2
RLR07C1005FR	5-23	2
	6-31	
RLR07C1023FR	7-5	1
RLR07C1503FR	5-27	1
RLR07C1781FR	5-16	1
RLR07C1782FR	5-15	1
RLR07C1783FR	5-14	1
RLR07C1784FR	5-13	2
	7-12	
RLR07C2001FR	6-12	2
RLR07C1584FR	7-11	1
RLR07C1780FR	6-38	1
RLR07C1871FR	6-29	1
RLR07C2001FR	5-22	2
	7-2	
RLR07C2002FR	7-4	1
RLR07C2003FR	5-19	2
	6-23	
RLR07C2020FR	6-37	1
RLR07C2214FR	7-9	1
RLR07C2493FR	5-18	1
RLR07C2674FR	7-10	3
RLR07C3493FR	6-5	6
RLR07C4R02FR	5-12	1
RLR07C4020FR	6-35	1
RLR07C4021FR	7-3	1
RLR07C4022FR	5-21	2
RLR07C4024FR	5-25	1
RLR07C4323FR	7-6	1
RLR07C4991FR	6-4	3

PART NUMBER	FIGURE & INDEX NO.	QTY PER END ITEM
RLR07C4993FR	6-19	2
RLR07C4994FR	5-24	2
	7-7	
RLR07C5014FR	7-8	1
RLR07C7501FR	5-20	1
RLR07C80R6FR	5-10	1
RLR07C8061FR	6-33	1
RLR07C8063FR	5-26	1
TL066CP	6-6	1
1N3491	4-23	2
1N3491R	4-22	2
1N4007	6-18	2
1N6263	6-24	4
2N5457	6-3	1
4D-2387	3-9	2
4D-2674	3-10	2
4D-2682	2-8	1
4D-2683	4-32	1
4D-2684	1-6	1
4D-2685	1-8	1
4D-2686	1-9	1
4D-2687	2-6	1
4D-2688	2-4	2
4D-2689	2-7	2
4D-2690	4-30	1
4D-2691	4-31	2
4D-2692	8-1	1
4D-2840	8-4	2
4D-2841	8-3	2
4D-2842	2-3	1
4D-2843-1	8-9	5
4D-2843-2	8-5	1
4D-2843-3	8-6	1
4D-2863	1-10	6
4D-2865	2-1	3
4D-2877	4-5	1
4D-2878	4-1	2
4D-2880	4-6	1
4D-2880-1	4-2	1

PART NUMBER	FIGURE & INDEX NO.	QTY PER END ITEM
4D-2880-2	4-29	6
4D-2938-2	6-7	1
4D-3563-1	3-6	1
4D-3563-2	3-7	1
4D-3564	3-11	1
4D-3565	3-4	1
4D-3566	3-5	1
4D-3570	1-3	1
4D-3571	1-1	1
4D-3572	1-12	1
4D-3592-1	3-2	1
4D-3592-2	3-3	1
4D-3597	1-2	1
4D-3597-1	7-14	33
4D-3621	8-8	2
4D-3626	5-9	1
4D-3627	4-3	1
4D-3628	4-7	1
4D-3629	6-43	1
4D-3630	4-24	1
4D-3631	4-12	1
4D-3632	4-15	1
4D-3666	4-11	1
4D-3672-3	8-13	8
4D-3681	8-14	1
4D-3682	6-21	2
4D-3683	4-9	1
4D-3684	4-4	1
4D-3686	6-36	1
4D-3688	6-1	1
4D-3697-1	6-42	36
4D-3697-3	6-41	5
4D-3705	4-18	1
4D-3778	7-15	1
4D-3789	5-2	1
4D-3790	5-1	1
4D-3791	5-3	1
4D-3836	5-8	1
4D-3853-1	7-13	4
981	4-28	1

SECTION IV
REFERENCE DESIGNATION INDEX

REFERENCE DESIGNATION	FIGURE & INDEX NO.	PART NUMBER
A1	4-12	4D-3631
A1A4	6-1	4D-3688
A1CR1, A1CR2	6-18	1N4007
A1CR3 thru A1CR6	6-24	1N6263
A1C1	6-9	M39003/01-2242
A1C3	6-30	CKR05B471K
A1C5	6-36	4D-3686
A1E1 thru A1E24	4-42	4D-3697-1
A1E25 thru A1E29	4-41	4D-3697-3
A1E30 thru A1E41	4-42	4D-3697-1
A1Q1	6-3	2N5457
A1Q2	6-13	JAN2N2222
A1Q3	6-14	MJ205
A1Q4	6-13	JAN2N2222
A1R1	6-7	4D-2983-2
A1R2	6-4	RLR07C4991FR
A1R3	6-8	RCR07C15R0FR
A1R4	6-4	RLR07C4991FR
A1R5	6-4	RLR07C4991FR
A1R6	6-12	RLR07C200FR
A1R7	6-10	RLR07C1003FR
A1R8	6-11	RLR07C10R0FR
A1R9 thru A1R14	6-5	RLR07C3493FR
A1R15	6-2	Select from the following: RNR60K3700DR RNR60K3740DR RNR60K3790DR RNR60K3830DR RNR60K3880DR RNR60K3920DR
A1R16	6-21	4D-3682
A1R18	6-23	RLR07C2003FR
A1R19	6-21	4D-3682
A1R20	6-40	RLR05C2001FR

REFERENCE DESIGNATION	FIGURE & INDEX NO.	PART NUMBER
A1R21	6-25	RLR05C1001FR
A1R22	6-26	RLR05C2672FR
A1R23	6-27	RLR05C3742FR
A1R24	6-28	RLR05C2002FR
A1R25	6-37	RLR07C2020FR
A1R29	6-31	RLR07C1005FR
A1R30	6-32	RLR07C1001FR
A1R31	6-39	RLR05C1622FR
A1R32	6-12	RLR07C200FR
A1R33	6-33	RLR07C8061FR
A1R34	6-34	RLR07C1000FR
A1R35	6-35	RLR07C4020FR
A1R36	6-19	RLR07C4993FR
A1R37	6-38	RLR07C1789FR
A1R38	6-19	RLR07C4993FR
A1R39	6-29	RLR07C1871FR
A1U1	6-6	TL066CP
A1U2, A1U3	6-20	LF351N
A2	4-15	4D-3632
A3	4-4	4D-3684
A3A1	5-3	4D-3791
A3A1E1 thru A3A1E33	7-14	4D-3597-1
A3A1R1	7-1	RLR07C1001FR
A3A1R2	7-2	RLR07C2001FR
A3A1R3	7-3	RLR07C4021FR
A3A1R4	7-4	RLR07C2002FR
A3A1R5	7-5	RLR07C1023FR
A3A1R6	7-6	RLR07C4323FR
A3A1R7	7-12	RLR07C1784FR
A3A1R8	7-11	RLR07C1584FR
A3A1R9 thru A3A1R11	7-10	RLR07C2674FR
A3A1R12	7-9	RLR07C2214FR
A3A1R13	7-8	RLR07C5014FR
A3A1R14	7-7	RLR07C4994FR
A3S1	5-9	4D-3626
C1, C2	1-4	4D-3854
S2	4-3	4D-3627
S3	4-7	4D-3628

