

REVISION

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1954

The first part of the report is a general description of the project. It is a study of the effect of the concentration of the solution on the rate of the reaction.

The second part of the report is a description of the experimental procedure. It is a detailed account of the work done in the laboratory.

The third part of the report is a description of the results of the experiment. It is a summary of the data obtained and a discussion of the results.

The fourth part of the report is a description of the conclusions of the experiment. It is a summary of the findings and a discussion of the implications of the results.

The fifth part of the report is a description of the references. It is a list of the books and articles that were consulted during the course of the study.

The sixth part of the report is a description of the appendix. It is a collection of the data and the calculations that were used in the study.

The seventh part of the report is a description of the bibliography. It is a list of the books and articles that were consulted during the course of the study.

The eighth part of the report is a description of the index. It is a list of the topics and the pages on which they are discussed.

The ninth part of the report is a description of the table of contents. It is a list of the sections of the report and the pages on which they are found.

The tenth part of the report is a description of the list of figures. It is a list of the figures that are included in the report.

The eleventh part of the report is a description of the list of tables. It is a list of the tables that are included in the report.

The twelfth part of the report is a description of the list of equations. It is a list of the equations that are used in the study.

The thirteenth part of the report is a description of the list of symbols. It is a list of the symbols that are used in the study.

The fourteenth part of the report is a description of the list of abbreviations. It is a list of the abbreviations that are used in the study.

The fifteenth part of the report is a description of the list of acronyms. It is a list of the acronyms that are used in the study.

The sixteenth part of the report is a description of the list of footnotes. It is a list of the footnotes that are included in the report.

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ILLUSTRATED PARTS BREAKDOWN

RS03 DECdisk

HOW TO USE THE IPB

GENERAL

This IPB is compiled following the organization and nomenclature of the engineering drawing structure.

MAJOR ASSEMBLY LOCATOR

The Major Assembly Locator (first illustration) is an index that provides a description and a figure reference for all illustrations used in this manual.

INDENTED PARTS LIST

This manual identifies each assembly being broken down (figure reference callout), and all parts of that assembly. Further breakdown of an assembly is shown by an asterisk (*) preceding the item callouts in the Description Column. The number of asterisks preceding an item is used to denote the subordination of that item with respect to the Major Assembly. A single asterisk preceding an item description indicates that the item is part of the major assembly being illustrated. Items that are subordinate to single asterisks items, are denoted by two asterisks (**) and immediately follow the related single asterisk item. Additional asterisks are used, as required, to denote further subordination. This system of part identification, provides a means for the user to identify the next higher assembly item and make alternate selections for parts when the required replacement part or assembly is not immediately available.

COLUMN CALLOUT DESCRIPTION

Figure & Item — Indicates the figure number and item number of each part.

Description — Lists the name of the part and pertinent specifications (when required). Asterisks preceding the description denote the subordination of the part to the next higher assembly.

DEC Part No. — Lists the DEC part ordering number. A blank in this column indicates a DEC part number was not assigned at the time of publication.

ECO Cut-In — The notation at the top of this column indicates the ECO level of the system (option), at which the IPB was initially prepared. Subsequent ECO level designations, that modify existing parts or add new parts to the device, are inserted in the ECO Cut-In column next to the part that is added or modified. A bracket ([]) preceding the item description is used to indicate the parts affected by ECO's.

Vendor Code/Part No. — Indicates vendor parts that are not stocked by DEC. Refer to the Field Service Spares Catalog (vendor part number to DEC part number) for the vendor code cross-reference.

Used On Code — Letters in this column correspond to the variation codes assigned in Figure 1. Parts with an Alpha notation(s) are used only in those option variations. A blank indicates that the part is used on all option variations.

Ref Fig No. — A cross reference between illustrations. For each Major Assembly, the number in this column denotes the figure of the next higher assembly. For all subassemblies, the number in this column denotes the figure showing additional detailed breakdown.

SYMBOL USAGE

Hardware Designators — Alpha designators for screws (S), washers (W), nuts (N), and retaining rings (R) are inserted after the item number callouts on the illustration when stacked item numbers are used.

Attaching Hardware — The @ symbol is inserted before any part that is used as attaching hardware. Attaching hardware is denoted as those parts that are not an integral part of the referenced assembly.

(NFR) Not Field Repairable — The (NFR) symbol is inserted after any assembly that is not to be field dismantled.

Other Symbols — Any other symbols that are required for kits, accessories, etc., will be explained and appear as part of the item description.

REVISION HISTORY

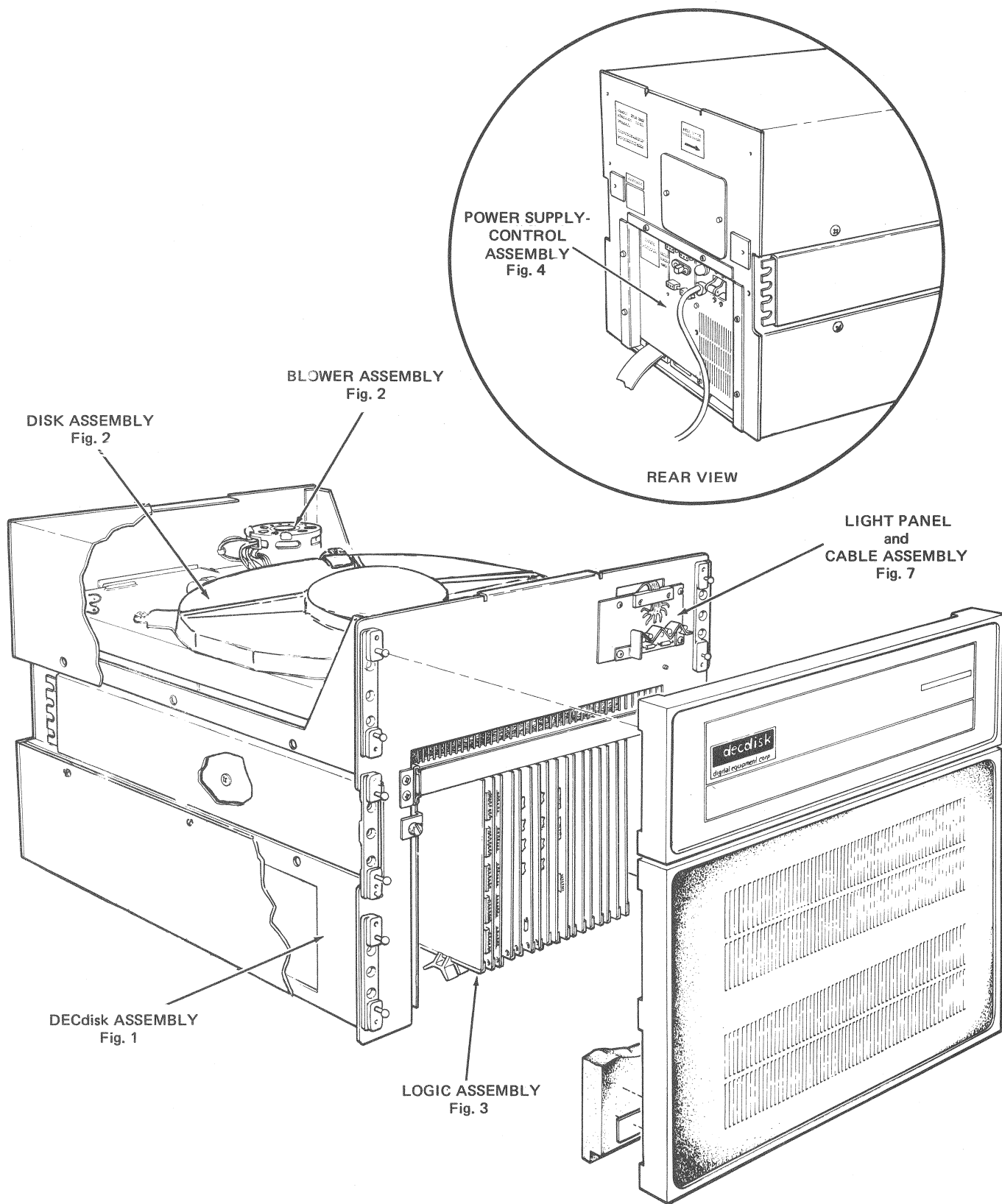
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1st Printing	RS03 00008-00008	6-11-74	N/A
"	70-09474 00002-00002	"	"
"	70-09473 00000-00000	"	"
"	70-09006 00003-00003	"	"
"	54-10313 00001-00001	"	"
"	54-10188 00002-00002	"	"
"	70-09172 00000-00000	"	"
"	54-10292 00000-00000	"	"
2nd Printing	RS03 00008-00016	6-23-75	NOTE: This 2nd Printing EK-RS03-IP-002 SUPERSEDES 1st Printing DEC-RS03-IPB-1 (NOTE THAT THE DOCUMENT NO. OF THIS IPB HAS CHANGED.)
"	70-09874 00002-0003A		
"	70-09473 00000-00000		
"	70-09006 00003-00004		
"	54-10313 00001-00001		
"	54-10188 00002-0005A		
"	70-09172 00000-00000		
"	54-10292 00000-00000		

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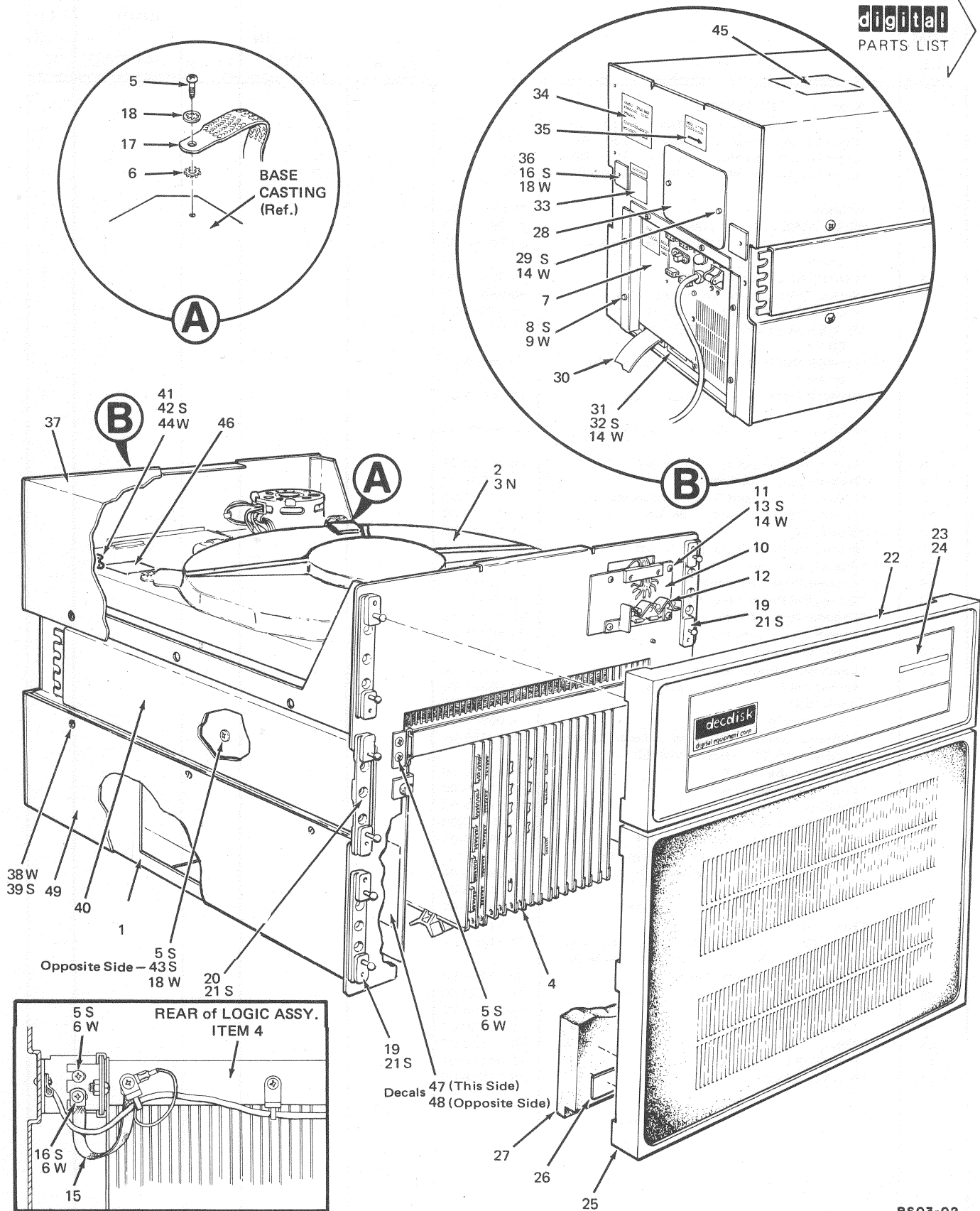
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RS03-01

Major Assembly Locator, RS03 DECdisk



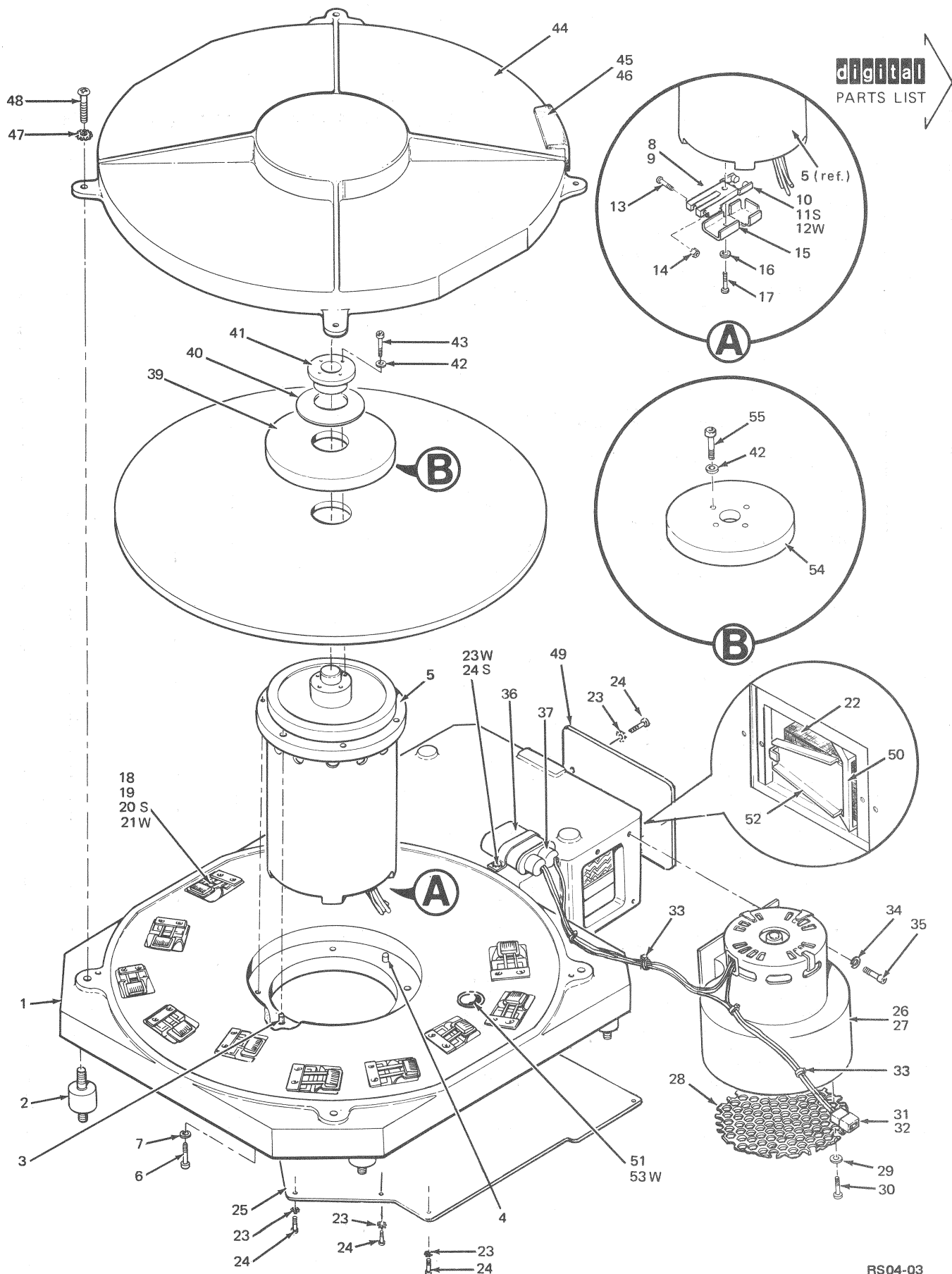


RS03-02

Figure 1. RS03 DECdisk Assembly

FIG & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN RS03 00008	USED ON CODE	VENDOR		REF FIG NO.
					CODE	PART NO.	
1—	RS03 DECDISK ASSEMBLY Code A—Used on Model RS03-AA 115V 60 Hz Code B—Used on Model RS03-AB 230V 60 Hz Code C—Used on Model RS03-AC 115V 50 Hz Code D—Used on Model RS03-AD 230V 50 Hz	RS03-AA RS03-AB RS03-AC RS03-AD		A B C D			
1	*Chassis	74-09815-00					
2	*DISK ASSEMBLY (RS03)	70-09474-00					2
3	*Nut, Kep No. 5/16 - 18 (Fastens Disk Assy. to Chassis)	90-06568-00					
4	*LOGIC ASSEMBLY (RS03)	70-09473-00					3
5	*Screw, Phi Truss Hd No. 10-32 x 3/8	90-06071-03					
6	*Washer, Ext. Tooth Lock No. 10	90-07651-00					
7	*POWER SUPPLY/CONTROL ASSY 115V 60 Hz	70-09006-00		A			4
	*POWER SUPPLY/CONTROL ASSY 230V 60 Hz	70-09006-01		B			4
	*POWER SUPPLY/CONTROL ASSY 115V 50 HZ	70-09006-02		C			4
	*POWER SUPPLY/CONTROL ASSY 230V 50 Hz	70-09006-03		D			4
8	*Screw, Phi Pan Hd No. 6-32 x 3/8	90-06022-01					
9	*Washer, Lock No. 6 Split	90-07801-00					
10	*LIGHT PANEL and CABLE ASSEMBLY	70-09172-00					7
11	*Spacer, No. 8, .25 Dia. x .38 Lg.	90-06802-00					
12	*Shield, Light	74-11015-00					
13	*Screw, Phi Pan Hd No. 6-32 x 5/8	90-06025-01					
14	*Washer, Int. Tooth No. 6	90-06633-00					
15	*Ground Strap (10 inch)	12-05724-01					
16	*Screw, Phi Pan Hd No. 10-32 x 1/2	90-06024-01					
17	*Ground Strap (5 inch)	90-06990-00					
18	*Washer, Int. Tooth No. 10	90-06635-00					
19	*Latch Moulding	12-09224-00					
20	*Latch Moulding (Rework)	74-09865-00					
21	*Screw, Phi Flag Hd Thd. Cutting	90-09521-00					
22	*Bezel (5 1/4")	12-09226-00					
23	*Panel, Control	74-09846-01					
24	*Adhesive, Silastic 732 (Used to fasten Control Panel Item 23 to Bezel Item 22)	90-09158-00					
25	*PANEL ASSEMBLY	74-11013-00					
26	*Tape (1 yd. Required)	12-11336-02					
27	*Pre-Filter	12-11255-00					
28	*Door, Rear Filter	74-09830-00					
29	*Screw, Phi Pan Hd No. 6-32 x 1/4	90-06020-01					
30	*MASSBUS CABLE ASSY (See Note 2)	BC08R-12					
	*I/O Cable Assembly (See Note 1)	70-09955-00					
31	*Clamp, Cable	12-11313-00					
32	*Screw, Phi Pan Hd No. 6-32 x 7/16	90-06023-01					
33	*Decal (UL)	36-11452-05					
34	*Decal (Machine to be supported . . . etc. and Refer to Inst. Manual . . . etc.) (See Note 2)	36-11452-06					
35	*Decal (Air Filter Installation)	36-11452-07					
36	*Plate, Locking	74-10733-00					
37	*Cover	74-09803-00					
38	**Washer, Retaining	90-09180-00					
39	**Screw, Captive (Southco)	90-09183-00					
40	*CHASSIS SLIDE, 24" (Pair)	12-09152-02					
41	*Bracket, Shipping	74-11618-00					





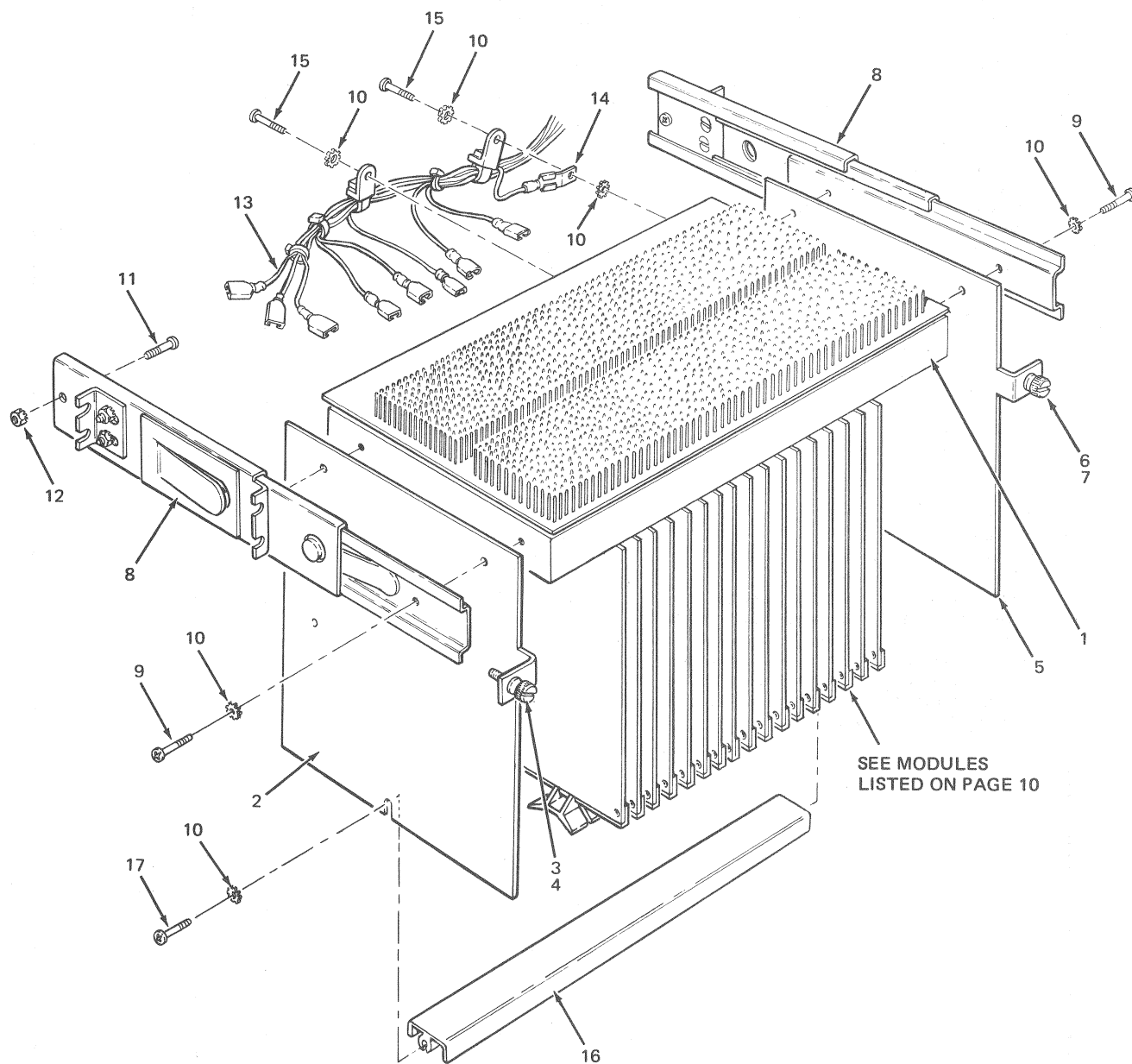
RS04-03

Figure 2. Disk Assembly (RS03)

FIG & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN 70-09474 00002	USED ON CODE	VENDOR CODE PART NO.		REF FIG NO.
2-	DISK ASSEMBLY (RS03)	70-09474-00					1
1	*Base Plate, Lower Head	74-09753-00					
2	*Shock Mount	12-11076-00					
3	*Dowel Pin, Diamond	74-09466-00					
4	*Dowel Pin, 1877 x .50	90-09212-00					
5	*MOTOR and HUB ASSEMBLY (NFR)	74-09804-00					
6	*Screw, Soc. Hd. Cap No. 10-32 x 5/8	90-06347-08					
7	*Washer, Lock No. 10 Helical	90-07906-00					
8	*BRUSH and MOTOR LOCK ASSEMBLY	70-09552-00					
9	**Lock, Motor (Old Design - deleted) **Lock, Motor (New Design - added)	74-08858-00 74-13356-00	70-09007 00005				
10	**BRUSH ASSEMBLY	12-10659-00					
11	**Screw, Phi Pan Hd No. 2-56 x 1/4	90-06001-01					
12	**Washer, Lock No. 2 Int. Tooth	90-06631-00					
13	**Screw, Phi Pan Hd No. 4-40 x 1.0 (deleted) **Screw, Soc. Hd Cap No. 8 x 3/4 (added)	90-06017-01 90-06340-08	70-09007 00005				
14	**Nut, Kep No. 4-40 (Deleted: Used for old design Motor Lock Item 9)	90-06557-00					
15	*Guard, Shaft	74-11249-00					
16	*Washer, Flat .250 x .125 ID x .022 Thk.	90-08172-00					
17	**Screw, Phi Pan Hd No. 4-40 x 1/2 (deleted) **Screw, Phi Pan Hd No. 4-40 x 3/4 (added)	90-06013-03 90-09105-08	70-09007 00005				
18	*MAGNETIC HEAD ASSEMBLY	12-11203-00					
19	*Shim, Head .002 (NFR) *Shim, Head .003 (NFR) *Shim, Head .005 (NFR) *Shim, Head .010 (NFR) *Shim, Head .031 (NFR)	74-10780-00 74-10780-01 74-10780-02 74-10780-03 74-10780-04					
20	*Screw, Soc Hd Cap No. 6-32 x 3/8	90-08045-08					
21	*Washer, Lock No. 6 Helical	90-07801-00					
22	*Filter, Air	12-10803-01					
23	*Washer, Lock No. 6 Ext. Tooth	90-07649-00					
24	*Screw, Phi Pan Hd No. 6-32 x 5/16	90-06021-01					
25	*Cover Filter Bottom	74-09801-00					
26	*BLOWER ASSEMBLY	70-09671-00					
27	**Blower, Centrifugal	12-10807-00					
28	**Screen, Blower	74-11012-00					
29	**Washer, Flat .312 x .125 ID x .027	90-06655-00					
30	**Screw, No. 6-32 or No. 6 Sheet Metal (Supplied with Blower Item 27)						
31	**Connector, Mate-N-Lok 3 Pin	12-09351-03					
32	**Pin, Mate-N-Lok Side Feed	12-09378-00					
33	**Cable Tie	90-07031-00					
34	*Washer, Lock 1/4 Helical	90-07797-00					
35	*Screw, Soc Hd Cap No. 1/4-20 x 3/8	90-06369-08					
36	*CAPACITOR and CLAMP	10-09397-02					
37	*Boot, Capacitor	90-08152-00					
38	*Disk (RS03)	74-11023-01					
39	*Cap, Disk (See Note 2)	74-10729-00					
40	*Washer, Spring Loaded (See Note 2)	12-11303-00					
41	*Hub, Clamping (See Note 2)	74-10730-00					
42	*Washer, Flat .375 x .156 ID x .032	90-06658-00					
43	*Screw, Soc Hd Cap No. 6-32 x 5/8 (See Note 2)	90-06331-08					
44	*Cover, Disk	74-11697-01					
45	*Filter, Upper Head	74-10980-00					
46	*Adhesive, Silastic 732	90-09158-00					

FIG & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN 70-09474 00002	USED ON CODE	VENDOR CODE PART NO.		REF FIG NO.
2-							
47	*Washer, Lock No. 10 Ext. Tooth	90-07651-00					
48	*Screw, Phl Hd Truss No. 10-32 x 1/2	90-06073-03					
49	*Cover, Filter Rear	74-09810-00					
50	*Loader, Filter (deleted) (See Note 1)	74-11718-00					
	*Loader, Filter (added) (See Note 1 & 3)	74-11718-01					
	*Loader, Filter (See Note 2 & 4)	74-11718-02	00003				
51	*Port, Air Sampling Receptacle (See Note 1)	12-11761-00					
52	*Latch, Loader (added) (See Note 1 & 3)	74-13401-01					
	*Latch, Loader (See Note 2 & 4)	74-13401-02	00003				
53	*Washer, Flat (added)	90-09027-00	RS03 00011				
54	*Clamp, Disk (See Note 1)	74-11882-00					
55	*Screw, Soc Hd Cap No. 6-32 x 3/8 (See Note 1)	90-08045-08					
NOTE 1: INSTALLED IN UNITS BUILT ON OR AFTER Sept. 1, 1974 (Ref: ECO RS03-00008) NOTE 2: INSTALLED IN UNITS BUILT BEFORE SEPT. 1, 1974 (Ref: ECO RS03-00008) NOTE 3: USED ON NEW STYLE BASE PLATE, ITEM NO. 1 ONLY. (NEW STYLE BASE PLATE HAS HEAD LOCATION NUMBERS CAST ON THE UNDERSIDE.) NOTE 4: USED ON OLD STYLE BASE PLATE, ITEM NO. 1 ONLY. (OLD STYLE BASE HAS NO HEAD LOCATION NUMBERS CAST ON THE UNDERSIDE.)							





RS03-04

Figure 3. Logic Assembly (RS03)

FIG & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN 70-09473 00000	USED ON CODE	VENDOR		REF FIG NO.
					CODE	PART NO.	
3-	LOGIC ASSEMBLY (RS03)	70-09473-00					1
1	*WIRED ASSEMBLY (P1)	70-08951-01					
2	*LOGIC SIDE PLATE ASSEMBLY (L.H.)	74-09813-01					
3	**Fastener, Southco 12-13-30511	12-11254-00					
4	**Washer, Southco 12-11014-26	90-09180-00					
5	*LOGIC SIDE PLATE ASSEMBLY (R.H.)	90-09813-02					
6	**Fastener, Southco 12-13-30511	12-11254-00					
7	**Washer, Southco 12-11014-26	90-09180-00					
8	*LOGIC SLIDE (Pair)	12-11212-00					
9	*Screw, Phl Pan Hd No. 6-32 x 5/16	90-06021-01					
10	*Washer, Lock Ext. Tooth No. 6	90-07649-00					
11	*Screw, Phl Pan Hd No. 10-32 x 3/8	90-06071-01					
12	*Nut, Kep No. 10	90-06565-00					
13	*HARNESS, Logic (P2)	70-09267-00					
14	*Ground Lug	90-07253-00					
15	*Screw, Phl Pan Hd No. 6-32 x 3/8	90-06022-01					
16	*Bar, Card Retainer	74-09811-00					
17	*Screw, Phl. Pan Hd. No. 8-32 x 1/4 (Self-Tap)	90-08143-01					
	MODULES						
	†Drive Transceiver	M5903					
	†Control	M7755					
	†Status	M7770					
	†Command Decode	M7759					
	†Address Register	M7754					
	†Format	M7771					
	†Data Register	M7753					
	†Shield Module	W906					
	†Encode Decode PLL	M7751					
	†Timing Amp Cable Assembly (G092)	70-09257-00					
	†Read Write and Detection	G182					
	†Head Matrix Cable Assembly (M7758)	70-09256-00					
	†Alternate Track Option Cable Assy (M7756)	70-09258-00					
	†Mass Bus Terminator (Note: If the drive is the only drive on the Bus or the last one on the Bus, it must have either a M5903 with a H870 Terminator in J2 or a M5903-YA which incorporates the Terminator Resistors).	M5903-00					

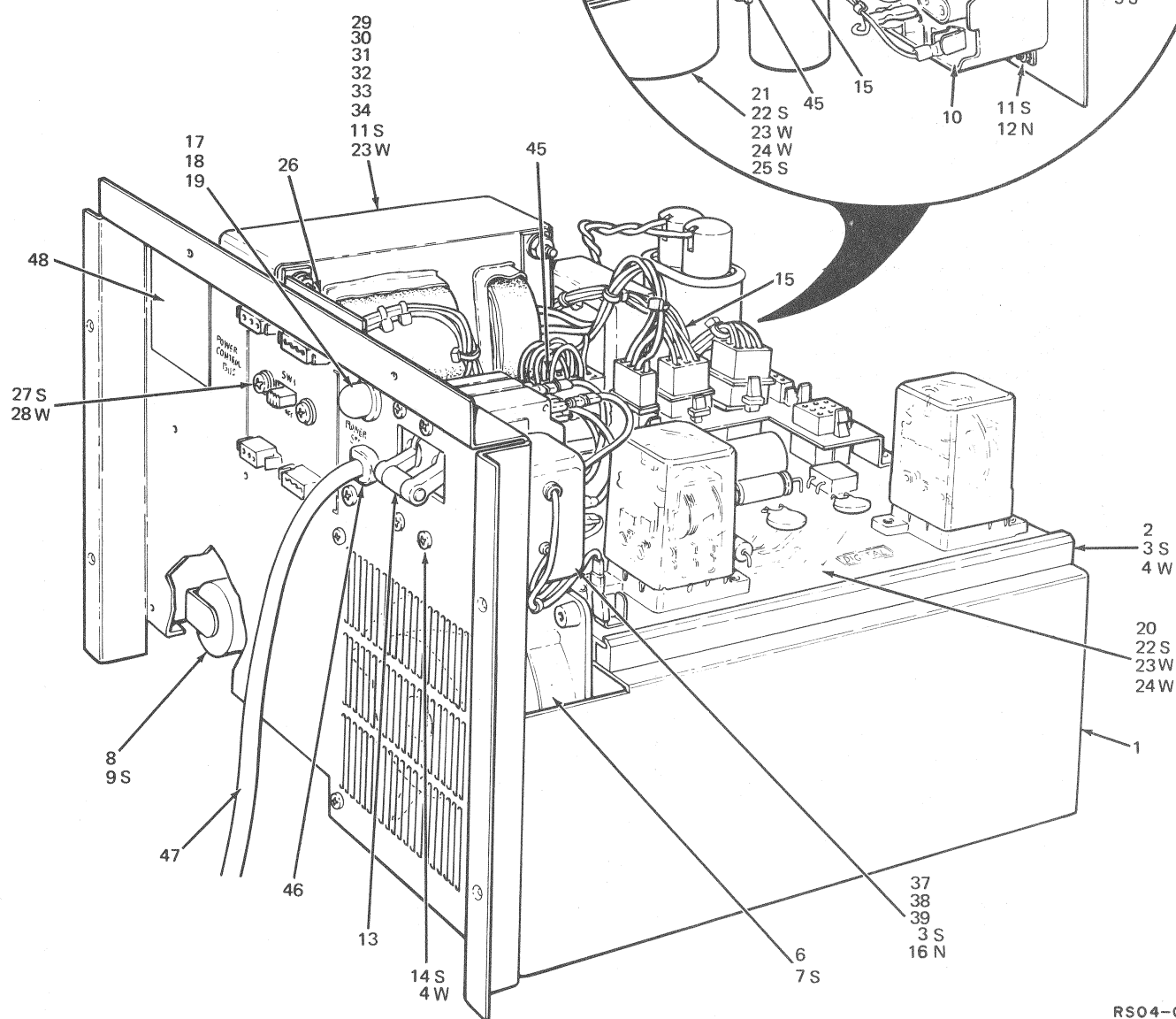
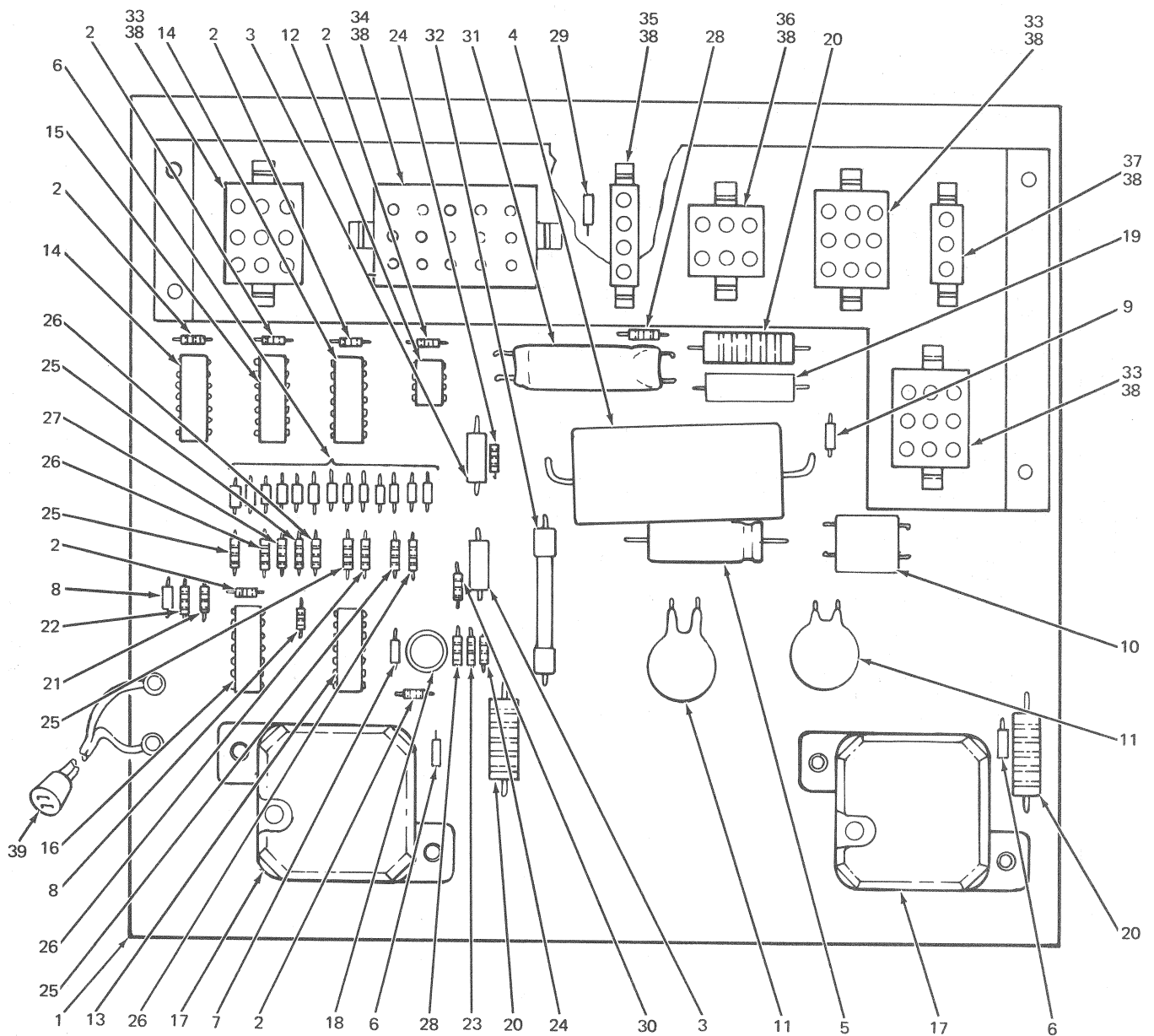


Figure 4. Power Supply/Control Assembly

FIG & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN 70-09006 00003	USED ON CODE	VENDOR CODE	PART NO.	REF FIG NO.
4-	POWER SUPPLY/CONTROL ASSEMBLY						
	Power Supply/Control Assembly 115V 60 Hz	70-09006-00		A			1
	Power Supply/Control Assembly 230V 60 Hz	70-09006-01		B			1
	Power Supply/Control Assembly 115V 50 Hz	70-09006-02		C			1
	Power Supply/Control Assembly 230V 50 Hz	70-09006-03		D			1
1	*Chassis, Power Supply/Control	74-09880-00					
2	*Guide	74-10675-00					
3	*Screw, Phi Pan Hd No. 6-32 x 5/16 Lg.	90-06021-01					
4	*Washer, Lock No. 6 Ext. Tooth	90-07649-00					
5	*Screw, Phi Flat Hd No. 6-32 x 1/4	90-06020-02					
6	*Fan, 4.75" 100 CFM	12-05033-01					
7	*Screw, Phi Pan Hd Self Tapping No. 8-32x3/8	90-06418-01					
8	*Capacitor, Alum. Electrolytic 165 Vac (Includes Bracket)	10-11249-00		A,C			
	*Capacitor, Alum. Electrolytic 330 Vac (Includes Bracket)	10-11248-00		B,D			
9	*Screw, Phi Flat Hd No. 10-32 x 3/8 Lg.	90-06071-02					
10	*Relay, Motor Start 115 Vac	12-11288-00		A,C			
	*Relay, Motor Start 230 Vac	12-11288-01		B,D			
11	*Screw, Phi Pan Hd No. 8-32 x 3/8 Lg.	90-06037-01					
12	*Nut, Kep No. 8-32	90-06563-00					
13	*Circuit Breaker 115 Vac 12A	12-10191-05		A,C			
	*Circuit Breaker 230 Vac 6A	12-10191-04		B,D			
14	*Screw, Phi Pan Hd No. 6-32 x 3/16	90-08020-01					
15	*HARNESS, Power Control	70-09269-00					
16	*Nut, Kep No. 6	90-08185-00					
17	*INDICATOR LAMP ASSEMBLY (115V)	70-09672-00		A,C			
	*INDICATOR LAMP ASSEMBLY (230V)	70-09672-01		B,D			
18	**Lamp, Indicator (115V)	12-01280-00		A,C			
	**Lamp, Indicator (230V)	12-02556-00		B,D			
19	**Connector, Piggy Back Quick	90-07925-03					
20	*POWER CONTROL MODULE	54-10313-00					
21	*POWER SUPPLY REGULATOR	54-10188-00					5
22	*Screw, Phi Pan Hd No. 8-32 x 1/2	90-06039-01					6
23	*Washer, Lock Ext. Tooth No. 8	90-08072-00					
24	*Washer, Flat .437 x .187 x .036	90-06661-00					
25	*Screw, Phi Pan Hd No. 8-32 x 5/8	90-06040-01					
26	*REMOTE LOCAL SWITCH CONNECTOR ASSEMBLY	70-09268-00					
27	*Screw, Phi Pan Hd (Self Tapping) No.8-32x1/4	90-08143-01					
28	*Washer, Lock Int. Tooth No. 8	90-06634-00					
29	*TRANSFORMER ASSEMBLY (T1) (60 Hz)	70-09674-00		A,B			
	*TRANSFORMER ASSEMBLY (T1) (50 Hz)	70-09674-01		C,D			
30	**Transformer (T1) (Note: Capacitor C1 included) 60 Hz	16-11228-00		A,B			
	**Transformer (T1) (Note: Capacitor C1 included) 50 Hz	16-11228-01		C,D			
31	**Connector, Mate-N-Lok, 8 Pin	12-09340-01					
32	**Connector, Mate-N-Lok, 4 Pin	12-09351-04					
33	**Pin, Mate-N-Lok	12-09378-00					
34	**Connector, Flag Quick	90-06998-00					
35	*Bracket, Capacitor Mounting	12-11236-00					
36	*Insulator, Capacitor white	90-08152-00					
37	*EMI CAPACITOR FILTER ASSEMBLY	70-09675-00					
38	**Filter, EMI Capacitor	10-10585-00					
39	**Connector, Pre-Insulated Quick	90-07970-00					
40	*POWER TRANSFORMER ASSEMBLY (T2)	70-09676-00					
41	**Transformer, Power (T2)	16-09115-00					
42	**Connector, Mate-N-Lok (9 Pin)	12-09351-09					
43	**Pin, Mate-N-Lok	12-09378-03					
44	*Clamp, Cable Nylon 3/16	90-07080-00					
45	*JUMPER (115V)	70-09254-00		A,C			
	*JUMPER (230V)	70-09254-01		B,D			

FIG & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN 70-09006 00003	USED ON CODE	VENDOR		REF FIG NO.
					CODE	PART NO.	
4-							
46	*Strain Relief, Heyco 6N3-4	90-08492-02					
47	*POWER CORD ASSEMBLY (120V)	70-09673-00			A,C		
	*POWER CORD ASSEMBLY (230V)	70-09673-01			B,D		
48	*Decal, Drive Option AA, 115V 60 Hz	36-11452-00			A		
	*Decal, Drive Option AB, 230V 60 Hz	36-11452-01			B		
	*Decal, Drive Option AC, 115V 50 Hz	36-11452-02			C		
	*Decal, Drive Option AD, 230V 50 Hz	36-11452-03			D		



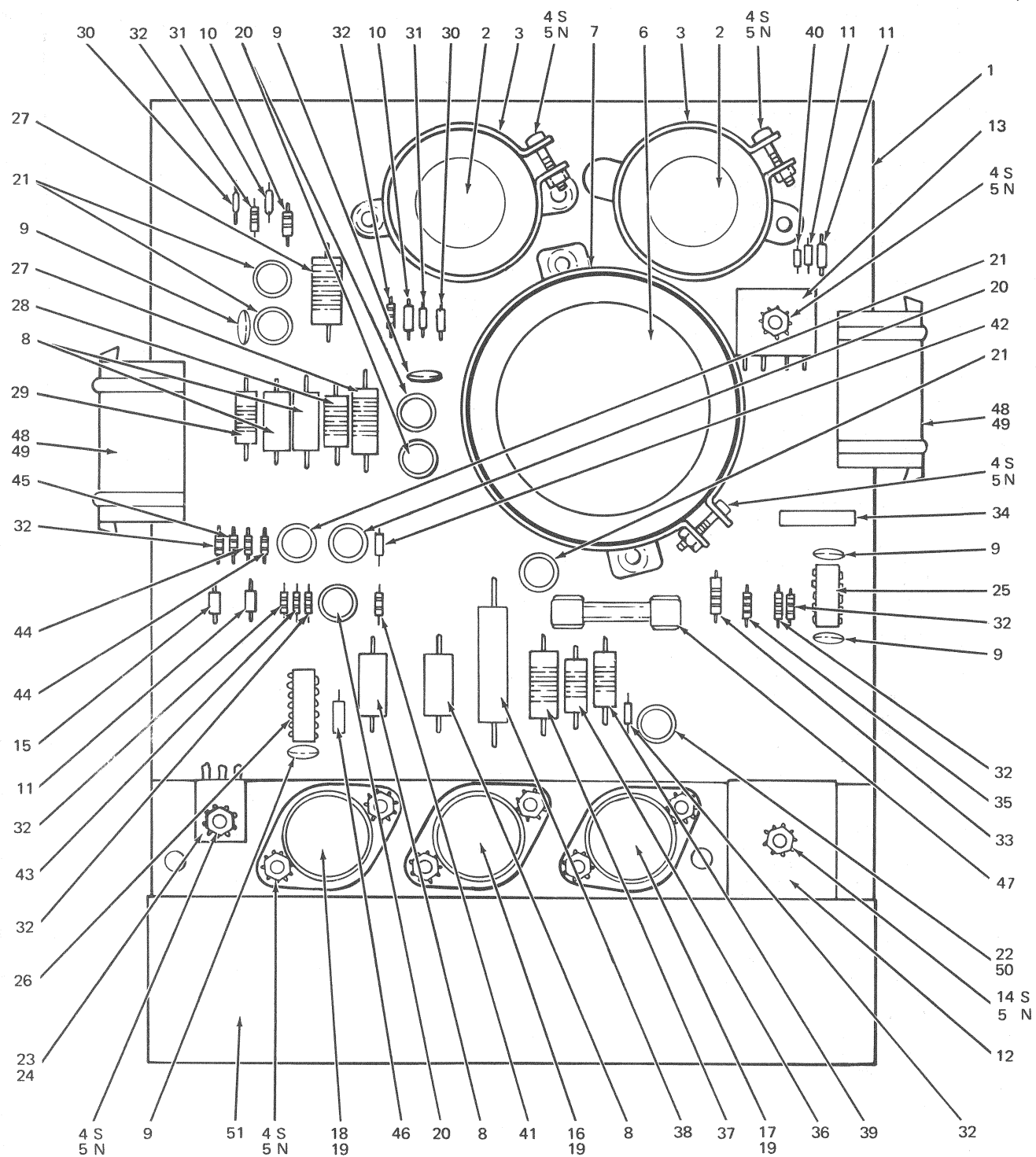


RS04-06

ETCH REV. E

Figure 5. Power Control Module

FIG & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN 54-10313 00001	USED ON CODE	VENDOR		REF FIG NO.
					CODE	PART NO.	
5—	POWER CONTROL MODULE Etch Rev. E	54-10313-00					4
1	*Board, Etched Circuit (Etch Rev E)	50-10312-00					
2	*Capacitor(C1—C6) .01MFD 50V ±20% Ax Cer.	10-01610-00					
3	*Capacitor(C7,C8) 6.8MFD, 35V ±10% S. Tant	10-05306-00					
4	*Capacitor(C9) 1000.MFD 15V +100-10% Al El	10-00090-00					
5	*Capacitor(C10) 100.MFD 25V +75-10% Al El.	10-02781-00					
6	*Diode (D1—D13, D15, D16) IN4004	11-05796-00					
7	*Diode, Zener (D17) IN750A (4.7V)	11-00124-00					
8	*Diode, Zener (D19, D20) IN970B (24V)	11-10856-00					
9	*Diode, Zener (D21) IN4733A (5.1V)	11-09943-00					
10	*Bridge, Rectifier (D22) MDA942-3FW	11-03016-00					
11	*Varistor, Metal Oxide (D23, D24) 10V	11-10997-00					
12	*I.C. (E1) DEC 75453	19-11036-00					
13	*I.C. (E2) DEC 7402	19-09004-00					
14	*I.C. (E3, E6) DEC 380A	19-09485-00					
15	*I.C. (E4) DEC 7400	19-05575-00					
16	*I.C. (E5) DEC 75450	19-11242-00					
17	*Relay, 3 Pole (K1, K2) 12V 10A	12-10683-00					
18	*Transistor (Q1) DEC 2219-3	15-01881-00					
19	*Resistor (R1) 27 Ohm 2W ±10%	13-05624-00					
20	*Resistor (R3, R4, R5) 75 Ohm 2W ±5%	13-03039-00					
21	*Resistor (R6) 330 Ohm 1/4W ±5%	13-00295-00					
22	*Resistor (R7) 750 Ohm 1/4W ±5%	13-01401-00					
23	*Resistor (R8) 100 Ohm 1/4W 5%	13-00229-00					
24	*Resistor (R9, R19) 4.7K Ohm 1/4W ±5%	13-00447-00					
25	*Resistor(R10,R13,R15,R17) 8.2K Ohm 1/4W ±5%	13-03179-00					
26	*Resistor (R11,R14,R16,R18) 1.2K Ohm 1/4W ±5%	13-01320-00					
27	*Resistor (R12) 5.6K Ohm 1/4W ±5%	13-01874-00					
28	*Resistor (R20,R23) 33K Ohm 1/4W ±10%	13-00510-00					
29	*Resistor (R21) 100K Ohm 1/4W ±5%	13-02466-00					
30	*Resistor (R22) 15K Ohm 1/4W ±5%	13-00496-00					
31	*Isolator, Cell (OC1) CLM 3120A	12-05264-00					
32	*Fuse (F1) (Pigtail) 2A	90-09505-00					
33	*Connector (J1,J5,J7) Mate-N-Lok 9 Pin	12-09350-09					
34	*Connector (J2) Mate-N-Lok 15 Pin	12-09350-15					
35	*Connector, (J3) Mate-N-Lok 4 Pin	12-09350-04					
36	*Connector (J4) Mate-N-Lok 6 Pin	12-09350-06					
37	*Connector (J6) Mate-N-Lok 3 Pin	12-09350-03					
38	*Pin, Socket Mate-N-Lok	12-09456-00					
39	*Plug Cord Assembly (6" Rotron 16415)	12-10283-00					



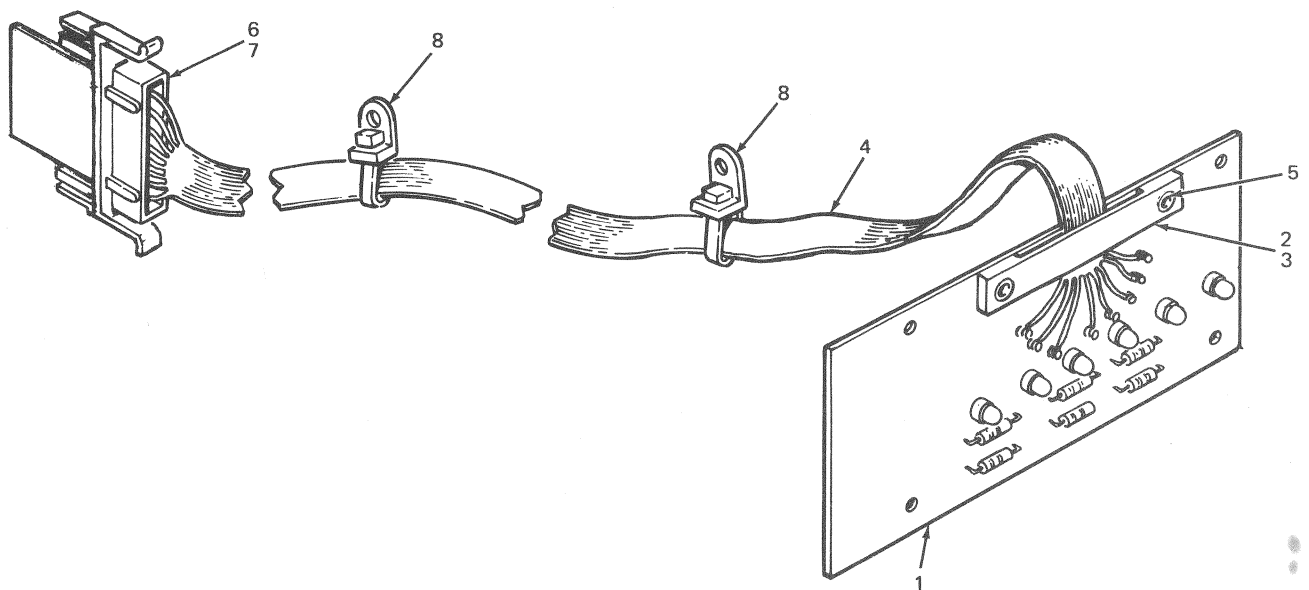
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ETCH REV. F

Figure 6. Power Supply Regulator Assembly

FIG & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN 54-10188 00002	USED ON CODE	VENDOR CODE	PART NO.	REF FIG NO.
6—	POWER SUPPLY REGULATOR Etch Rev. F	54-10188-00					4
1	*Board, Etched Circuit (Etch Rev F)	50-10187-00					
2	*Capacitor (C1,C2) 5800MFD 40V +75% - 10%	10-10860-00					
3	*Bracket, Capacitor (For C1, C2)	12-10428-00					
4	*Screw, Phi Pan Hd No. 4-40 x 9/16	90-08033-01					
5	*Nut, Kep No. 4-40 x 1/4 x 1/16	90-06557-00					
6	*Capacitor (C3) 36000MFD 15V +75% - 10%	10-10995-00					
7	*Bracket, Capacitor (For C3)	12-10429-00					
8	*Capacitor (C4 thru C7) 22MFD 35V 20%	10-02433-00					
9	*Capacitor (C8 thru C12) .01MFD 50V 20% Axial Cer.	10-01610-00					
10	*Diode (D1, D2) IN964B 13V 5%	11-09988-00					
11	*Diode (D3, D4, D6) IN4004 400V	11-05796-00					
12	*Rectifier Bridge (D7) NSS 3514	11-10714-00					
13	*Rectifier Bridge (D8) MD-A-970-3	11-10208-00					
14	*Screw Phi Pan Hd No. 4-40 x 7/8	90-06016-01					
15	*Diode (D5) IN748A 3.9V 5%	11-00122-00					
16	*Transistor (Q1) DEC 3715, NPN 170W	15-03068-00					
17	*Transistor (Q2) 2N5302	15-10196-00					
18	*Transistor (Q3) MJ900, PNP, 90W	15-10712-00					
19	*Insulator, Plastic Film	90-08419-00					
20	*Transistor (Q4,Q5,Q11,Q12) DEC 2219-3	15-01881-00					
21	*Transistor (Q6,Q7,Q9,Q13)	15-01742-00					
22	*Transistor (Q8) 2N3444	15-09447-00					
23	*Transistor (Q10) 2N4441	15-05867-00					
24	[*Insulator, Plastic Film (deleted)	90-08424-00					
	[*Insulator, Plastic Film (added)	90-09597-00	00003				
25	*I.C. (E1) Volt Reg. DEC 723	19-10415-00					
26	*I.C. (E2) DEC 7402	19-09004-00					
27	*Resistor (R1,R2) 330 Ohm 2W 10%	13-01961-00					
28	*Resistor (R3) .47 Ohm 2W 5%	13-05258-00					
29	[*Resistor (R4) .15 Ohms 2W 10% (deleted)	13-10147-00					
	[*Resistor (R4) .39 Ohms 2W 5% (added)	13-10868-00	00003				
30	*Resistor (R5, R6) 750 Ohms 1/8W 1%	13-02955-00					
31	*Resistor (R7, R8) 1.6K Ohm 1/8W 1%	13-04862-00					
32	*Resistor (R9,R10,R12,R15,R20,R25,R29,R31) 1.5K Ohm 1/4W 5%	13-00391-00					
33	*Resistor (R11) 270 Ohm 1/2W 10%	13-00289-00					
34	*Resistor (R13) 2K Ohm Pot. 76 PR 3/4W 10%	13-09143-08					
35	*Resistor (R14) 4.7K Ohm 1/4W 5%	13-00447-00					
36	*Resistor (R16) 2.7 Ohm 1W 5%	13-10382-00					
37	*Resistor (R17) 36 Ohm 2W 5%	13-09994-00					
38	*Resistor (R18) .1 Ohm 10W 1%	13-09108-00					
39	*Resistor (R19) 1 Ohm 2W 5%	13-05428-00					
40	*Resistor (R21) 3.9K Ohm 1/4W 5%	13-00444-00					
41	*Resistor (R22) 180 Ohm 1/4W 5%	13-01322-00					
42	*Resistor (R23) 3.3K Ohm 1/4W 5%	13-00439-00					
43	*Resistor (R24) 10K Ohm 1/4W 5%	13-00479-00					
44	*Resistor (R26,R27) 2.7K Ohm 1/4W 5%	13-00426-00					
45	*Resistor (R28) 7.5K Ohm 1/4W 5%	13-01422-00					
46	*Resistor (R30) 56 Ohm 1/4W 5%	13-02602-00					
47	*Fuse (F1) 10A Slow Blow	90-07225-00					
48	*Connector (J1,J2) Mate-N-Lok: 8 Skt	12-09340-00					
49	*Pin, Connector Mate-N-Lok	12-09456-00					
50	*Heat Sink	12-10001-00					
51	*Heat Sink	12-11214-00					

FIG & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN 70-09172 00000	USED ON CODE	VENDOR		REF FIG NO.
					CODE	PART NO.	
7—	LIGHT PANEL and CABLE ASSEMBLY	70-09172-00					1
1	*LIGHT PANEL ASSEMBLY (P2)	54-10292-01					8
2	*Clamp, Cable	12-02704-00					
3	*Tape, No. 4032	90-07834-00					
4	*Cable, Ribbon	91-07575-00					
5	*Eyelet, GS-4-7	90-06732-00					
6	*Connector, Mate-N-Lok 8 Pin	12-09340-01					
7	*Pin, Mate-N-Lok (Male)	12-09373-00					
8	*Tie, Cable SSC2	90-07033-00					

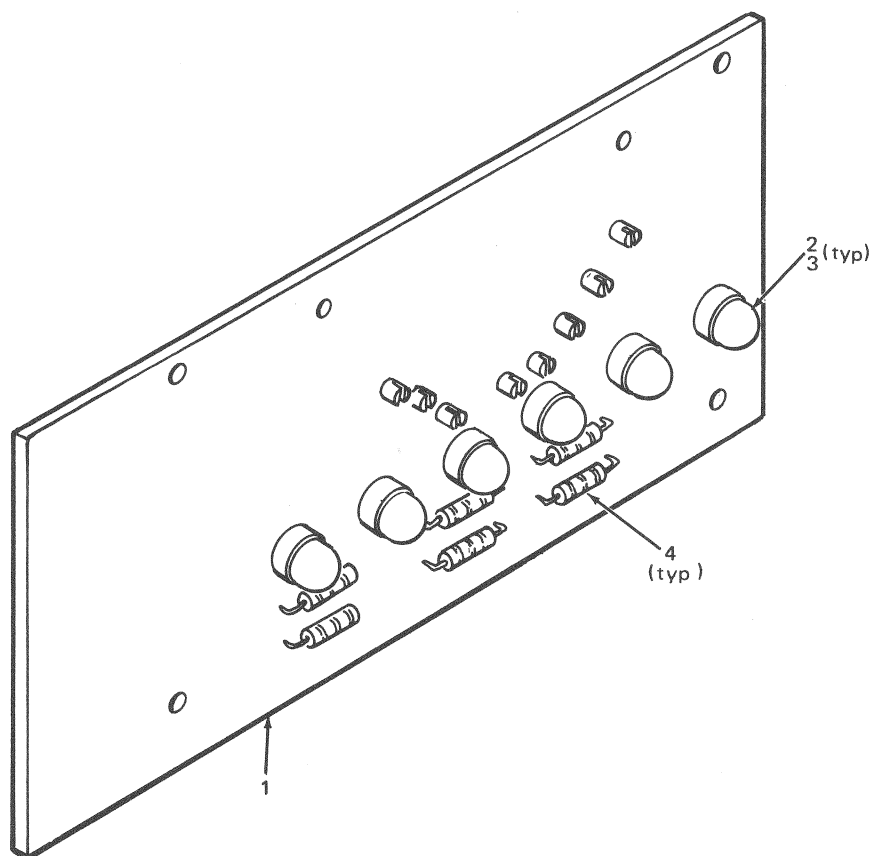


RS04-08

Figure 7. Light Panel and Cable Assembly



FIG & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN 54-10292 00000	USED ON CODE	CODE	VENDOR PART NO.	REF FIG NO.
8—	LIGHT PANEL ASSEMBLY Etch Rev. D	54-10292-00					7
1	*Board, Etched Circuit (Etch Rev. D)	50-10291-00					
2	*Lamp (I1—I6)	12-09169-00					
3	*Socket, IC Spring	90-07812-00					
4	*Resistor(R1—R6) 120 Ohm 1/2W ±5%	13-00243-00					
							DEC



RS04-09

Figure 8. Light Panel Assembly

