

**DATA GENERAL  
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ILLUSTRATED PARTS LIST

FOR THE

NOVA 800 COMPUTER

VOLUME II

The Illustrated Parts List  
contained within this doc-  
ument comprises Section  
VI of the "Technical Man-  
ual for the Nova 800."

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## SECTION VI

### ILLUSTRATED PARTS LIST

#### 6-1 INTRODUCTION

This chapter contains a complete list of replaceable parts for the Nova 800 Computer. To facilitate the procurement of parts not manufactured by Data General, the descriptions for such parts include an associated manufacturer's reference code number. Each number indexes the corresponding manufacturer's name and address as listed in Table 6-1 of this chapter. Manufacturer index numbers assignments are for reference purposes only and do not correspond to codes assigned by the Federal Supply Code. Personnel involved in provisioning from this document may consult the Federal Supply Code for Manufacturers, Cataloging Handbook H4-1, for the proper Federal reference codes for manufacturers listed in this chapter. The original manufacturer's part number is listed for all items including commercially available hardware to facilitate exact replacement of substitute parts.

##### 6-1.1 Relationships of Main Group Assemblies to End Configurations

The Nova 800 Central Processor by definition consists of the Console/Enclosure Unit, Power Supply Unit, and Central Processor -1 (CPU-1) Printed Circuit Board Assembly. The Console/Enclosure Unit is so designed that seven 15 X 15 inch Printed Circuit Board Assemblies may be plug mounted into a special printed circuit board connector in the Enclosure Chassis. The board assemblies are inserted horizontally into the Enclosure Chassis. A pair of guiding rollers are built into the chassis frame (on each board level) to insure proper insertion of the board contacts into the corresponding socket of the multiple printed circuit board connector. The seven connector slots are numbered from the bottom of the chassis up to the top with slot 1 reserved for the CPU-1 Assembly. The six remaining slots may be used for memory assemblies, I/O assemblies, or special control board assemblies.

These assemblies represent a variety of optional equipment which is individually selected by each customer to provide a specific configuration in accordance with the required application. Under these conditions there is no top level assembly number available

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to define any one system configuration. The modular building block concept, while providing the greatest flexibility in the task of designing a system for a specific application does not lend itself to the top-down breakdown assembly designations normally applied to special purpose system hardware, e.g., military or aerospace computing systems. Nova 800 Memories, I/O and Peripheral Control Assemblies all have assembly level numbers of equal weight.

The illustrated parts list provided in this Section describes the Nova 800 Central Processor Unit. This Section of the manual also contains the parts list for the Nova 800 4K Core Memory assembly, and the Basic I/O Control assembly. Additional illustrated parts listing material may also be added to this section of the manual in the event other memories are added to the configuration sometime after installation. In the same manner this section may be expanded to include documentation for any peripheral control assembly e.g., parts listing for the Magnetic Tape Control or Disk Control board assemblies purchased with or added to the configuration. Parts lists for the other optional memory assemblies and peripheral control assembly boards are part of the documentation package for each optional assembly, and is shipped along with the hardware. It is suggested that the accompanying illustrated parts listing be incorporated into the section immediately upon receipt of any optional assemblies.

Hence, the complete illustrated parts listing for any selected Computer system will eventually be compiled in this section. The figure numbers for the basic Nova 800 system are organized in this section to run concurrently up to Figure 6-13. However, optional figures are numbered sequentially within each option parts list, and as such will not necessarily preserve any numbering continuity for parts lists subsequently added to this section. Figure numbers missing out of any sequence due to exclude options should be noted as "Not Applicable" on any provisioning lists.

The parts list for each major assembly lists the circuit reference designator for each part, along with the manufacturer's part number and description. The quantities per assembly are also listed. The manufacturer's name and address may be found by noting the Manufacturer Reference Code for the selected component. This code number locates the name and address

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of the manufacturer in Table 6-1, List of Manufacturers. For example, to locate the manufacturer of Capacitor C1 on the Console PCB assembly first look up the circuit reference designator C1 in the Console PCB Assembly parts list, and locate the Manufacturer's Reference Code opposite as 0047. Look up 0047 in Table 6-1 and locate Dickson Electronics Corporation, Scottsdale, Arizona as the manufacturer.

### 6-1.2 Reference Designations and Parts Numbering System

All reference designators appearing in the Group Assemblies Parts List have been assigned in accordance with USA Standard USAS Y32.16-1968. The general procedure for assigning reference designators to printed circuit board assemblies having high component density is to number components in discrete rows from left to right across the assembly, with the number sequence of the rows increasing from the bottom toward the top of the assembly. Under these conditions the components with the lowest reference numbers will be found at the bottom left-hand side of the assembly, with the highest reference numbered components located on the top right-hand side of the assembly. (The bottom of any printed circuit board assembly is defined as the Printed Circuit Connector end of the board. The top of the printed circuit board assembly is defined by the handle.) This numbering convention is maintained wherever possible. Components with different part numbers are also called out as required by the figure indexing. Component row boundaries are defined as follows: From the printed connector up to the edge of the first Integrated Circuit Package (IC) row is defined as the connector row. From the edge of the first IC row to the edge of the second IC row is defined as COMPONENTS ROW 1. From the edge of the second IC row to the edge of the third IC row is defined as COMPONENTS ROW 2, ... etc. Figure 6-1 is an example of the PCB Component Reference Numbering System showing the Components Row layout.

Alternate vendor items are listed in the Group Assembly Parts List immediately after the item for which it is an alternate. Alternate parts so listed are not assigned as index number, and are designated by a  $\diamond$  symbol immediately preceding the Manufacturer's part number.

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Table 6-1. List of Manufacturers

Code Number	Manufacturer's Name and Address
0010	Data General Corp. Southboro, Massachusetts
0011	Allen Bradley Milwaukee, Wisconsin
0012	C & K Switching Co. Watertown, Massachusetts
0013	Fairchild Semiconductors Mountainview, California
0014	Signetics, Inc. Sunnyvale, California
0015	Sprague Products Co. North Adams, Massachusetts
0016	Hudson Lamp Kearny, New Jersey
0017	Microswitch Division Honeywell Freeport, Illinois
0019	Erie Technological Products State College, Pennsylvania
0021	Belden Wire Chicago, Illinois
0022	Cannon Electric Los Angeles, California
0023	Leviton Manufacturing Co. Brooklyn, New York
0025	Littlefuse, Inc. Des Plaines, Illinois

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List of Manufacturers (Continued)

Code Number	Manufacturer's Name and Address
0026	Motorola Phoenix, Arizona
0027	Ohmite Manufacturing Co. Skokie, Illinois
0026	Fenwal Electronics Framingham, Massachusetts
0031	Bourns, Inc. Riverside, California
0034	Continental Device Corp. Hawthorne, California
0036	Cornell-Dublier Newark, New Jersey
0037	Valpey-Fisher Corp. Holliston, Massachusetts
0038	Texas Instruments, Inc. Dallas, Texas
0039	RCA Corporation Mountain Top, Pennsylvania
0040	RBM Controls/Essex Int'l. Logansport, Indiana
0041	Corning Glassworks Bradford, Pennsylvania
0043	AMP Inc. Harrisburg, Pennsylvania
0044	Heyman Mfg. Co. Kenilworth, New Jersey
0047	Dickson Electronics Corp. Scottsdale, Arizona

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List of Manufacturers (Continued)

Code Number	Manufacturer's Name and Address
0048	South Co., Inc. Lester, Pennsylvania
0049	Advance Micro Devices Sunnyvale, California
0051	Chicago Lock Company Chicago, Illinois
0052	Elmenco Willimantic, Connecticut
0056	Sangamo Electrical Braintree, Massachusetts
0059	Mallory Capacitor Div. of P. R. Mallory & Co. Indianapolis, Indiana
0060	Bussmann Mfg. Div. of McGraw-Edison Co. St. Louis, Missouri
0061	Tel Lab, Inc. Manchester, New Hampshire
0062	Molex, Inc. Downers Grove, Illinois
0063	Rotron, Inc. Woodstock, New York
0064	General Electric Co. Semiconductor Products Div. Syracuse, New York
0065	CTS Berne Inc. Berne, Indiana

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List of Manufacturers (Continued)

Code Number	Manufacturer's Name and Address
0066	Nytronics, Inc. Darlington, South Carolina
0067	Intersil Cupertino, California
0068	ITT Semiconductor Division Lawrence, Massachusetts
0069	Birtcher Corp. Monterey, California



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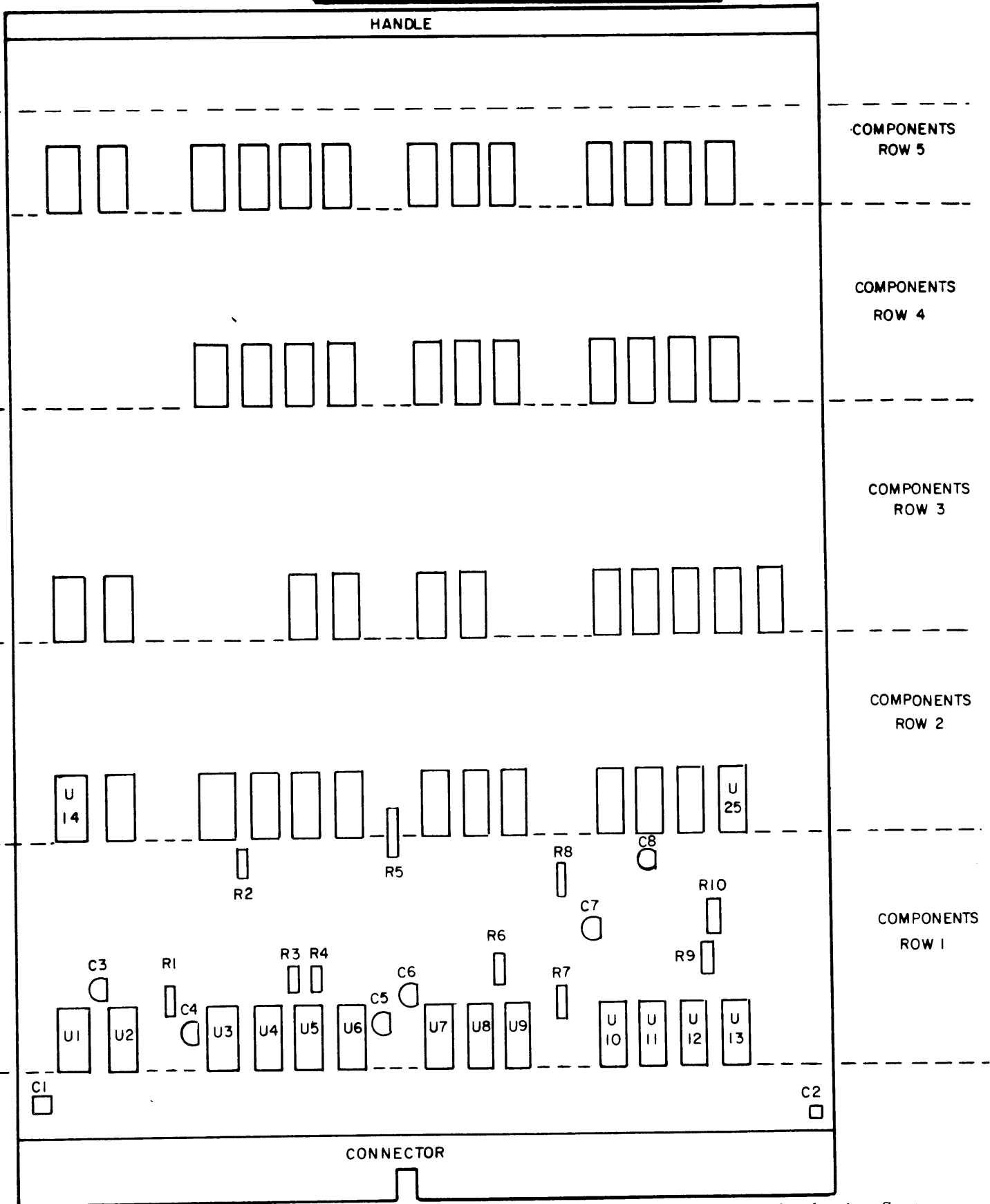


Figure 6-1. Example of PCB Component Reference Numbering System

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### 6-1.3 Identification of Parts from Reference Numbers

The reference designator assigned to each part appears both on the logic diagram showing the electrical position of the corresponding component, and in the Group Assembly Parts list. To locate a part simply note its reference number appearing on the logic diagram, then reference the corresponding assembly or subassembly figure list in the Group Assembly Parts list for the corresponding reference designator. Note the figure index number listed opposite the reference designator, and find the corresponding indexed callout on the figure. Index numbers are called out parenthetically and point to a part which is the same as the one referenced to and provides visual identification. To find the exact (electrical) component reference in the logic diagram look for the reference number called out on the figure. The reverse of the procedure described above is performed to correlate the physical component with its electrical position as shown on the logic diagram. Logic diagrams for the Nova 800 and their corresponding Group Assembly parts list figures are listed in Table 6-2.

### 6-1.4 Inter-Assembly and Output Wiring Information

As previously described in paragraph 1-3 the wiring terminations for each major assembly component of the Nova 800 are brought out (via the PCB etch) to a 52 pin printed circuit edge type connector. Since this connector is also soldered into the PCB etch of another major assembly, the connector itself functions as the inter-assembly connection facility. Inter-Assembly Wiring and cabling information does not strictly apply to this unique system of assembly interconnection. Therefore, each PCB assembly or subassembly figure presented in this listing also includes signal information for the etched finger terminals on that particular printed circuit board. Table 6-3 lists the wire list drawings (in Section VII) which define the Multiple Printed Circuit Board Connector and the actual output connector to optional external devices, i.e., each Reader, Punch and I/O. Plug connectors P4 through P8 are each formed by a group of 20 individual pins permanently staked and soldered to the Multiple PCB etch. Each Plug connector is designed to mate with a 20 pin AMP connector receptacle. The three I/O connectors terminate in a 50 pin connector mounted on the Connector Bay at the rear of the unit. The Reader and Punch connectors each terminate in a 2DE19S connector also mounted on the Connector Bay (if these options have been selected).

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Table 6-2. Logic Diagram to IPL Cross Reference Listing

<u>LOGIC DIAGRAM TITLE</u>	<u>DRAWING No.</u>	<u>IPL FIGURE No.</u>
CONSOLE	001-000089	6-4, 6-5
CPU-1	001-000092 (4 Sheets)	6-9
CPU-2	001-000093 (3 Sheets)	6-10
IO BUS RECEIVERS & COMMON SELECT	001-000070	6-12
TELETYPE CONTROL*	001-000071	6-12
PAPER TAPE READER*	001-000072	6-12
PAPER TAPE PUNCH*	001-000073	6-12
REAL TIME CLOCK	001-000074	6-12
POWER MONITOR	001-000111	6-9
4K MEMORY	001-000104 (4 Sheets)	6-11
NOVA 1200 POWER SUPPLY	001-000091	6-7
RESISTOR BOARD	001-000087	6-6

\*See Table 6-3 and Figure 6-6 (Note 1)  
for (Device/Computer) Connector Information applicable to each option.

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Table 6-3. Wire Information Reference Drawing Numbers

<u>Title</u>	<u>Drawing No.</u>
TELETYPE CONTROL	001-000071
I/O EXTERNAL CABLE	008-000044
NOVA 800/1200 INTERNAL I/O CABLE WIRE LIST	008-000053
NOVA 800/1200 HI SPEED READER INTERNAL CABLE WIRE LIST	008-000054
NOVA 800/1200 PUNCH INTERNAL CABLE WIRE LIST	008-000055

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The Teletype connections do not require an inter-assembly connector, but are wired directly from the PCB etch to the 9 pin teletype output connector.

#### 6-1.5 Attaching Hardware

All attaching hardware (nut, washers, and screws) for the various assemblies of the Nova 800 are considered expendable, as - required items. Table 6-4 lists the sizes of the various nuts, washers, and screws used in the Nova 800. All hardware listed is stainless steel stock and as a group are commercially available.

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Table 6-4. List of Attaching Hardware

MACHINE SCREWS (Stainless Steel)

<u>Thread</u>	<u>Head</u>	<u>Length</u>
4-40	100° Countersink Phillips Flat	3/16, 1/4, 3/8, 1/2
4-40	Phillips Pan	5/8, 7/8
8-32	Phillips Pan	3/16, 5/16
6-32	100° Countersink Phillips Flat	1/4
4-40	Slotted B. H. (Teflon Coated)	5/16
2-56	Slotted B. H.	5/16
10-32	Allen Socket	3/8

MACHINE SCREWS (Stainless Steel)

(S. E. M. S - with captive internal tooth lockwasher)

<u>Thread</u>	<u>Head</u>	<u>Length</u>
4-40	Phillips Pan	3/16, 1/4, 7/16, 1/2
6-32	Phillips Pan	3/8, 5/8
8-32	Phillips Pan	3/4, 1 1/4
10-32	Phillips Pan	3/8, 5/8, 3/4

MACHINE SCREWS (Stainless Steel)

(S. E. M. S)

<u>Thread</u>	<u>Head</u>	<u>Length</u>
8-32	Slotted Hex	5/16, 3/8

MACHINE SCREWS (Nylon)

<u>Thread</u>	<u>Head</u>	<u>Length</u>
4-40	Slotted B. H.	1/4, 3/8

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Table 6-4. List of Attaching Hardware (Continued)

MACHINE NUTS (Stainless Steel)

<u>Thread</u>	<u>Type</u>
2-56	Hex
4-32	Hex
6-32	Hex
8-32	Hex
10-32	Hex

WASHERS (Stainless Steel)

<u>Type</u>	<u>Size</u>
Internal Tooth	#2, 4, 6, 8, 10
Flat	#4, 6, 8

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NOVA 800 GROUP ASSEMBLIES PARTS LIST



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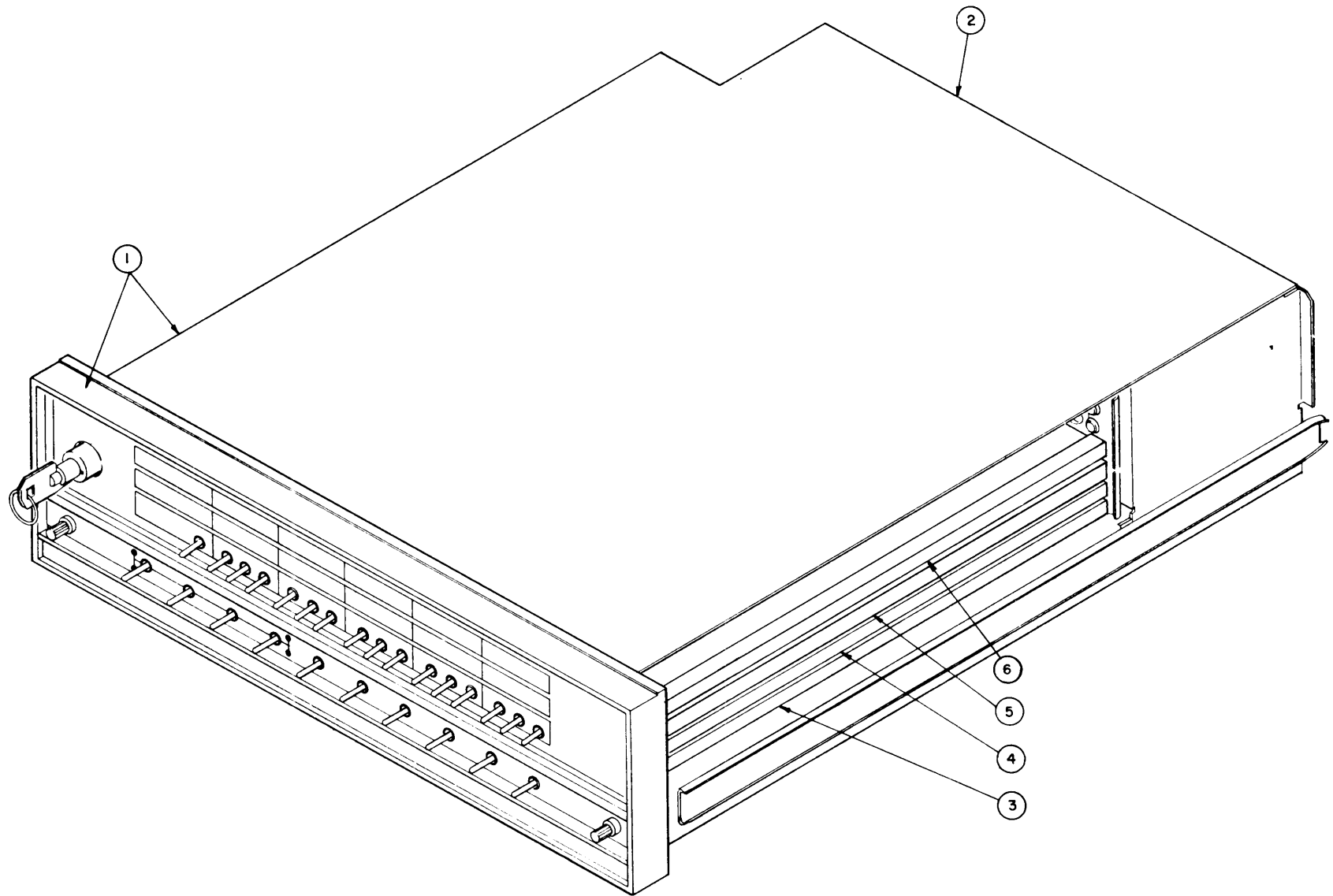


Figure 6-2. Nova 800 Central Processor

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-2		8101	.									NOVA 800 CENTRAL PROCESSOR		
-1	1	005-000467	.									CONSOLE/ENCLOSURE UNIT(See Figure 6-3 for detailed breakdown).	. . .	1
-2	2	005-000302	.									POWER SUPPLY UNIT(See Figure 6-7 for detailed breakdown).	. . .	1
-3	3	005-000357	.	.								CENTRAL PROCESSOR-1 PCB ASSEMBLY(See Figure 6-9 for detailed breakdown).	. . .	1
-4	4	005-000358	.	.								CENTRAL PROCESSOR-2 PCB ASSEMBLY(See Figure 6-10 for detailed breakdown).	. . .	1
-5	5	005-000364	.	.								NOVA 800 4K MEMORY PCB ASSEMBLY, Model 8203(See Figure 6-11 for detailed breakdown).	. . .	1
-6	6	005-000138	.	.								BASIC I/O PCB ASSEMBLY, Model 4007(Interface for Teletype, Real Time Clock, Paper Tape Reader and Paper Tape Punch)(See Figure 6-12 for detailed breakdown).	. . .	1

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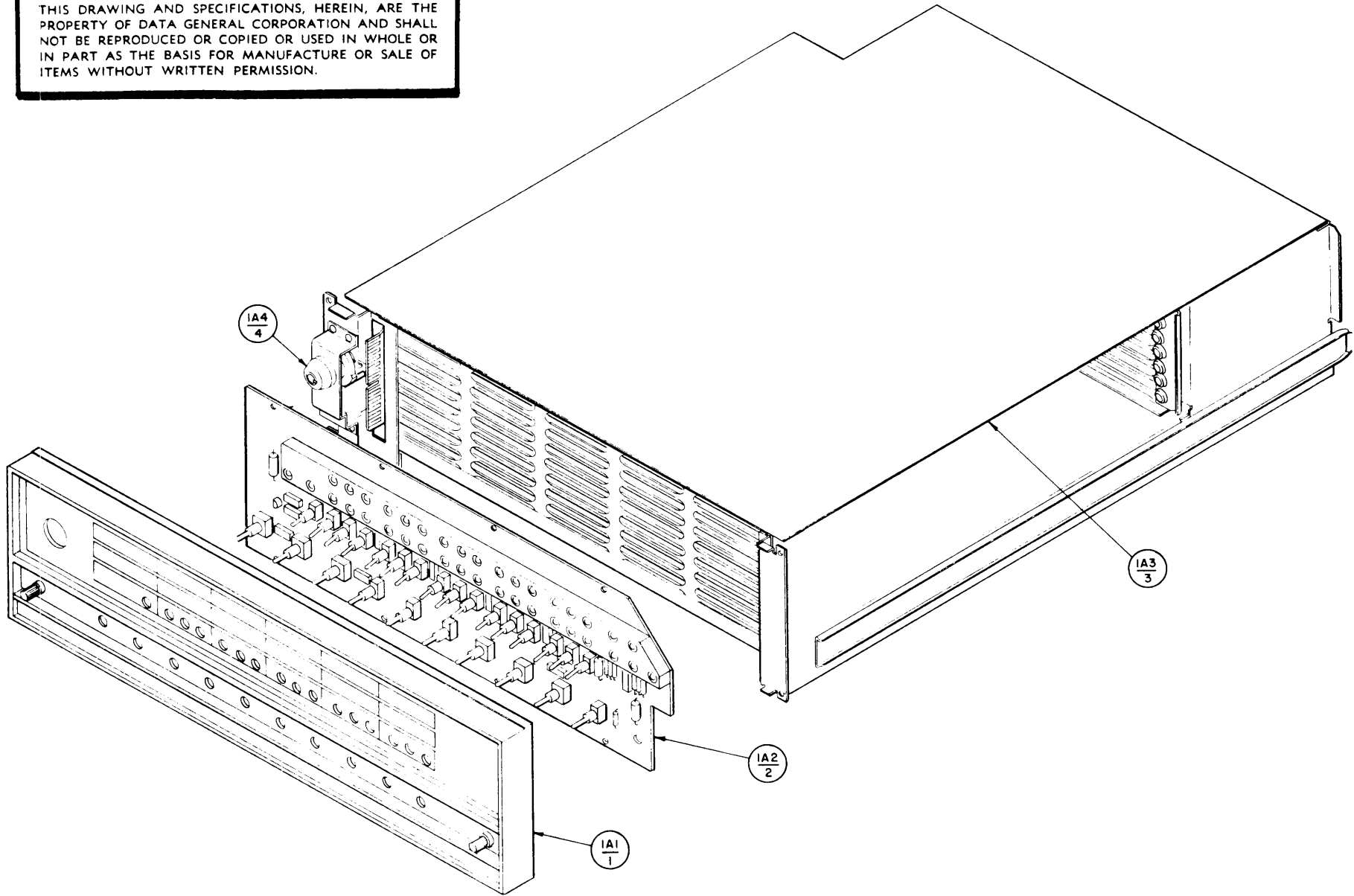


Figure 6-3. Nova 800 Console/Enclosure Unit

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-3	1	005-000467	.									CONSOLE/ENCLOSURE UNIT(See Figure 6-2-1 for NHA). . . . .	. . . . .	REF
-1	1A1	005-000291	.	.								CONSOLE ASSEMBLY(See Figure 6-4 for detailed breakdown). . . . .	. . . . .	1
-2	1A2	005-000289	.	.								CONSOLE PCB ASSEMBLY(See Figure 6-5 for detailed breakdown). . . . .	. . . . .	1
-3	1A3	005-000292	.	.								ENCLOSURE MAIN FRAME ASSEMBLY(See Figure 6-6 for detailed breakdown). . . . .	. . . . .	1
-4	1A4	LOCKSWITCH SUBASSEMBLY... Shown here for reference purposes only. See Figure 6-6-17 for detailed breakdown											. . . . .	1

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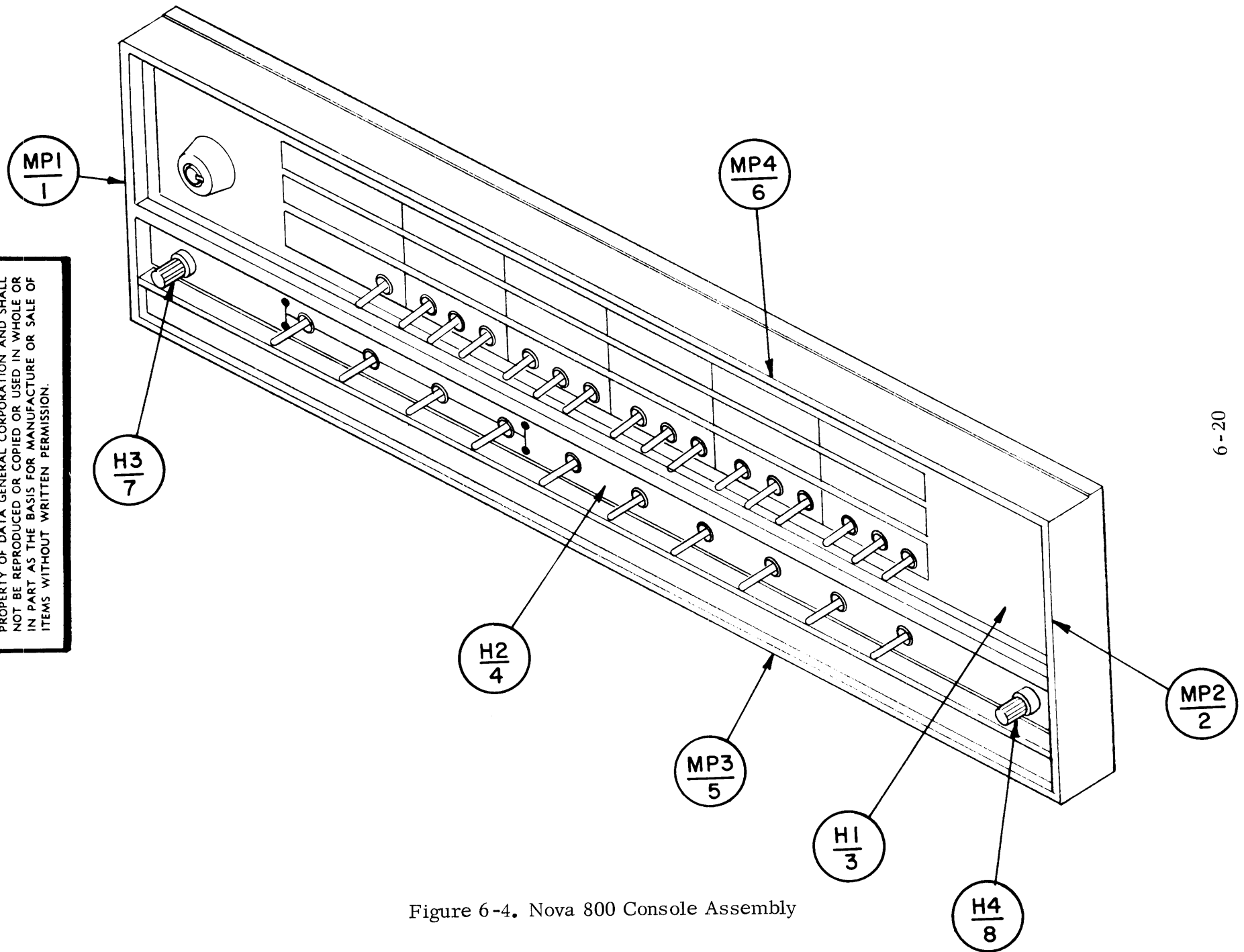


Figure 6-4. Nova 800 Console Assembly

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Fig. & Index No.	Reference Designator	MFR Part No.										Qty. Per Assy.	Qty. Per Unit	
			1	2	3	4	5	6	7	8	9			DESCRIPTION
6-4	1A1	005-000291	.	.	CONSOLE ASSEMBLY(See Figure 6-3-1 for NHA).							.	.	REF
-1	MP1	002-000225	.	.	.	FRAME RAIL, VERTICAL LEFT (0010).							1	
-2	MP2	002-000226	.	.	.	FRAME RAIL, VERTICAL RIGHT (0010).							1	
-3	H1	002-000235	.	.	.	PANEL, DEAD FRONT(0010).							1	
-4	H2	002-000236	.	.	.	SWITCH DECAL(0010).							1	
-5	MP3	002-000242	.	.	.	RAIL, HORIZONTAL BOTTOM (0010).							1	
-6	MP4	002-000243	.	.	.	RAIL, HORIZONTAL TOP(0010).							1	
-7	H3	123-000010	.	.	.	FASTENER, PAWL, RIGHT (0010).							1	
-8	H4	123-000011	.	.	.	FASTENER, PAWL, LEFT (0010).							1	

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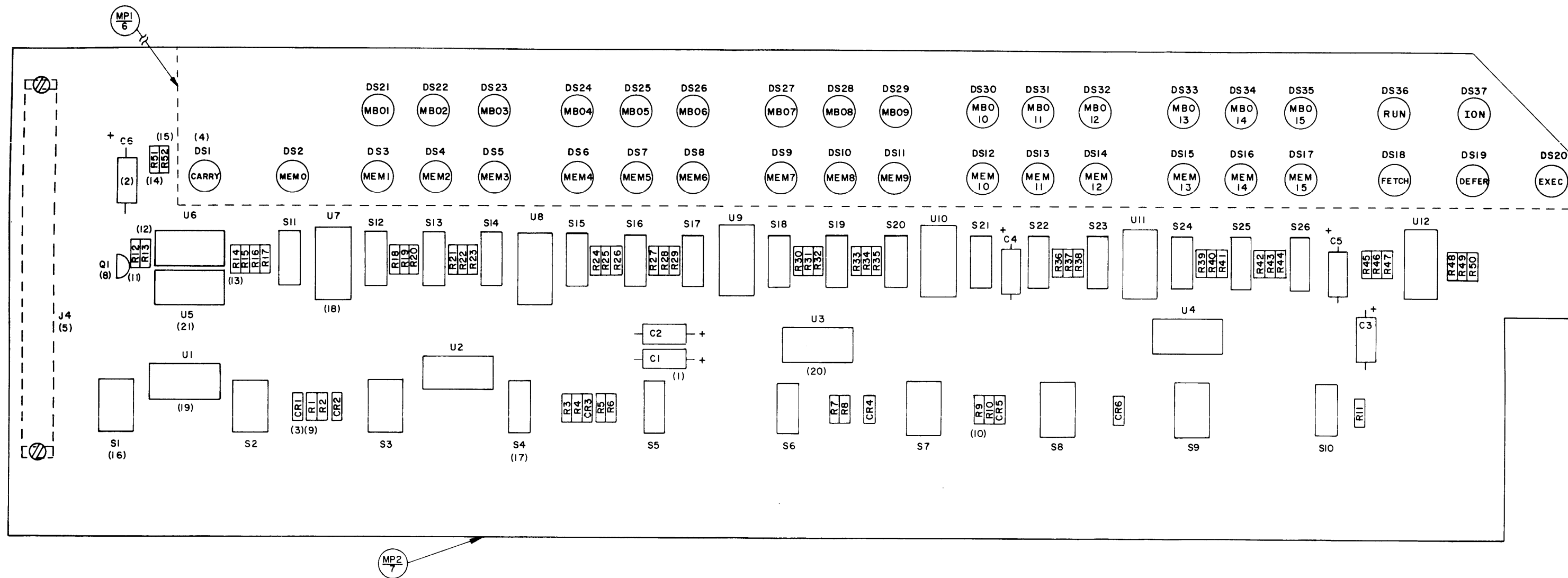


Figure 6-5. Nova 800 Console PCB Assembly



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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6- 5	1A2	005-000289	.	.	.	.	.	.	.	.	.	CONSOLE PCB ASSEMBLY(See Figure 6-3-2 for NHA).	.	REF
- 1	C1 thru C5	D6R8B35K	.	.	.	.	.	.	.	.	.	CAPACITOR, 6.8 $\mu$ fd, 35VDC (0047).	5	
- 2	C6	150D476X900B2	.	.	.	.	.	.	.	.	.	CAPACITOR, 47 $\mu$ fd, 6VDC(0015)	1	
		◇CSR1347K6	.	.	.	.	.	.	.	.	.	CAPACITOR, 47 $\mu$ fd, 6VDC(0047)		
- 3	CR1 thru CR6	CD81148	.	.	.	.	.	.	.	.	.	DIODE(0034).	6	
- 4	DS1 thru DS37	2176D	.	.	.	.	.	.	.	.	.	BULB, Console(0016).	37	
- 5	J1	5193-141-1	.	.	.	.	.	.	.	.	.	CONNECTOR, Receptacle, Printed Circuit Edge(0043).	1	
- 6	MP1	002-000241	.	.	.	.	.	.	.	.	.	LAMPGUIDE, Benelex(0010).	1	
- 7	MP2	107-000077	.	.	.	.	.	.	.	.	.	PRINTED CIRCUIT BOARD NOVA 800 Console(0010).	1	
- 8	Q1	2N4403	.	.	.	.	.	.	.	.	.	TRANSISTOR(0026).	1	
- 9	R1 thru R8, R10,													
	R11	EB1525	.	.	.	.	.	.	.	.	.	RESISTOR, 1.5K 1/2W, 5%(0011)	10	
-10	R9	EB7515	.	.	.	.	.	.	.	.	.	RESISTOR, 750 $\Omega$ , 1/2W, 5%(0011)	1	
-11	R12	EB3915	.	.	.	.	.	.	.	.	.	RESISTOR, 390 $\Omega$ , 1/2W, 5%(0011)	1	
-12	R13	EB4715	.	.	.	.	.	.	.	.	.	RESISTOR, 470 $\Omega$ , 1/2W, 5%(0011)	1	
-13	R14 thru R50	EB1025	.	.	.	.	.	.	.	.	.	RESISTOR, 1. K 1/2W, 5%(0011)	37	
-14	R51	EB4725	.	.	.	.	.	.	.	.	.	RESISTOR, 4.7K, 1/2W, 5%(0011)	1	
-15	R52	EB1015	.	.	.	.	.	.	.	.	.	RESISTOR, 100 $\Omega$ , 1/2W, 5%(0011)	1	
-16	S1 thru S3, S7 thru S9	7205CSPX	.	.	.	.	.	.	.	.	.	SWITCH, Toggle, DPDT, Spring Loaded(0012).	6	
-17	S4 thru S6, S10	7105CSPX	.	.	.	.	.	.	.	.	.	SWITCH, Toggle, SPDT, Spring Loaded(0012).	4	
-18	S11 thru S26	7101CSPX	.	.	.	.	.	.	.	.	.	SWITCH, Toggle, SPST(0012)	16	
-19	U1, U2	7438	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2-Input NAND (Open Collector)Gates(0015).	2	

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Fig. & Index No.	Reference Designator	MFR Part No.	1 2 3 4 5 6 7 8 9 DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-5 -20	Continued U3, U4, U6 thru U12	. . . . .  7407	. . . . .  . . . INTEGRATED CIRCUIT PACKAGE, Hex Buffers/Drivers with Open Collector High-Voltage Outputs(0038). . . .	9	
-21	U5	8H90	. . . INTEGRATED CIRCUIT PACKAGE, Hex Inverters(0014). . .	1	

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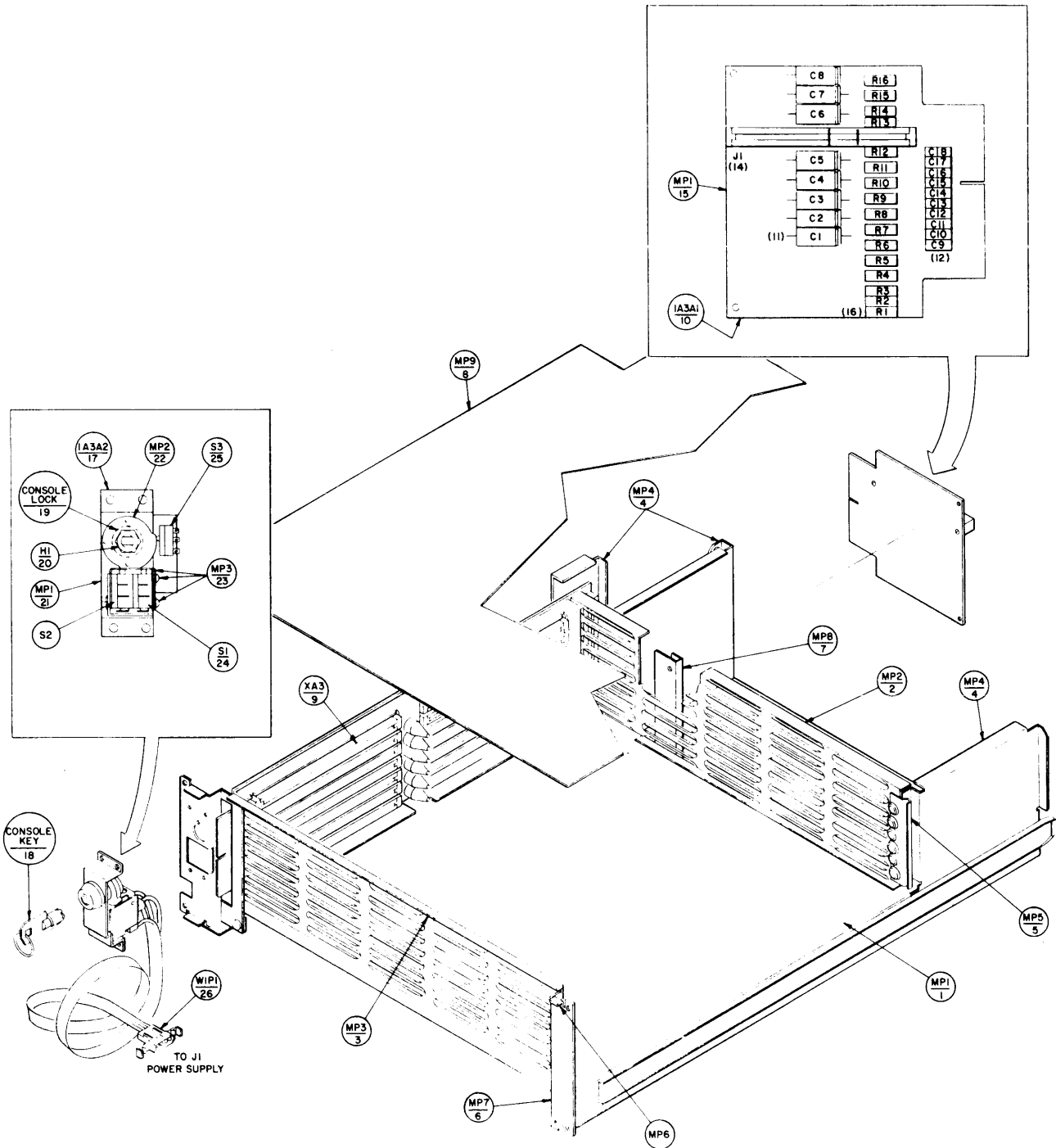


Figure 6-6. Nova 800 Enclosure Main Frame Assembly

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-6	1A3	005-000292	.	.								ENCLOSURE MAIN FRAME ASSEMBLY(See Figure 6-3-3 for NHA). . . . .	1	REF
- 1	MP1	002-000219	.	.	.							CHASSIS BASE(0010). . . . .	1	
- 2	MP2	002-000216	.	.	.							GUIDE PLATE, Rear(0010). . . . .	1	
- 3	MP3	002-000217	.	.	.							GUIDE PLATE, Front(0010). . . . .	1	
- 4	MP4	002-000361	.	.	.							BAY SUPPORT, Power Supply and **Connector Panel(0010). . . . .	1	
- 5	MP5, MP6	002-000245	.	.	.							PCB INJECTOR Latching Bracket (0010). . . . .	2	
- 6	MP7	002-000244	.	.	.							BRACKET, Mounting Console (0010). . . . .	1	
- 7	MP8	002-000235	.	.	.							BRACKET, Mounting Resistor Board(0010). . . . .	1	
- 8	MP9	002-000263	.	.	.							CHASSIS COVER(0010). . . . .	1	
- 9	XA3	005-000289	.	.	.							MULTIPLE PCB CONNECTOR Panel(W/P4-P8*)(0010). . . . .	1	
-10	1A3A1	005-000304	.	.	.							RESISTOR BOARD SUBASSEMBLY(0010). . . . .	1	
-11	C1 thru C8	103-000007	.	.	.							CAPACITOR, 50 $\mu$ fd, 50VDC (0047). . . . .	8	
-12	C9 thru C18	D6R8B35K	.	.	.							CAPACITOR, 6, 8 $\mu$ fd, 35VDC (0047). . . . .	10	
-13	Deleted													
-14	J1	5193-141-1	.	.	.							CONNECTOR, Receptacle Printed Circuit Edge(0043). . . . .	1	
-15	MP1	107-000081	.	.	.							PRINTED CIRCUIT BOARD, Resistor Board(0010). . . . .	1	
-16	R1 thru R16	EL2N	.	.	.							RESISTOR, 8 $\Omega$ , 3%(0061). . . . .	16	
-17	1A3A2	005-000293	.	.	.							LOCK SWITCH SUBASSEMBLY (0010). . . . .	1	
-18	Console Key	122-000002	.	.	.							CONSOLE KEY(0051). . . . .	2	
-19	Console Lock	122-000001	.	.	.							CONSOLE LOCK(0051). . . . .	1	
-20	H1	002-000234	.	.	.							WASHER, Lockswitch(0010). . . . .	1	
-21	MP1	002-000231	.	.	.							BRACKET, Lockswitch(0010). . . . .	1	

\*See Table 6-3 for Wire Information for P4-P8  
 \*\*See Note 1 below for Connector Information

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-6	Continued													
-22	MP2	002-000233	.	.	.	.	.	.	.	.	.	CAM, Lockswitch(0010).	1	
-23	MP3	JV-91	.	.	.	.	.	.	.	.	.	ACTUATOR Kit, Microswitch (0017).	1	
-24	S1, S2	J323D8	.	.	.	.	.	.	.	.	.	SWITCH, Micro(0017).	2	
-25	S3	ISMI	.	.	.	.	.	.	.	.	.	SWITCH, Micro(0017).	1	
-26	W1P1	005-000294	.	.	.	.	.	.	.	.	.	INTER-ASSEMBLY CABLE, AC Power(0010).	1	
	NOTE 1:	Additional Connectors supplied with various other Device/Computer options are mounted on the Connector Panel in any available vertical slot. The connectors for the (High Speed) Paper Tape Reader, Paper Tape Punch, and Teletype are each mounted in one of the horizontal slots near the bottom of the Connector Panel, if the corresponding option has been selected by the customer. The Teletype Connector is generally mounted in the slot designated as P2. The BASIC I/O Control options are listed below with their respective Device/Computer Connectors.												
		2DE19S	.	.	.	.	.	.	.	.	.	Connector is installed as part of Optional Subassembly PAPER TAPE READER CONTROL, Model No. 4011. CONNECTOR, SOCKET, 19 Pin (0022).	1	
		2DE19S	.	.	.	.	.	.	.	.	.	Connector is installed as part of Optional Subassembly PAPER TAPE PUNCH CONTROL, Model No. 4012. CONNECTOR, SOCKET, 19 Pin (0022).	1	
		DEC-9S	.	.	.	.	.	.	.	.	.	Connector is installed as part of Optional Subassembly TELETYPE INTERFACE, Model No. 4010. CONNECTOR, SOCKET, 9 Pin(0022).	1	

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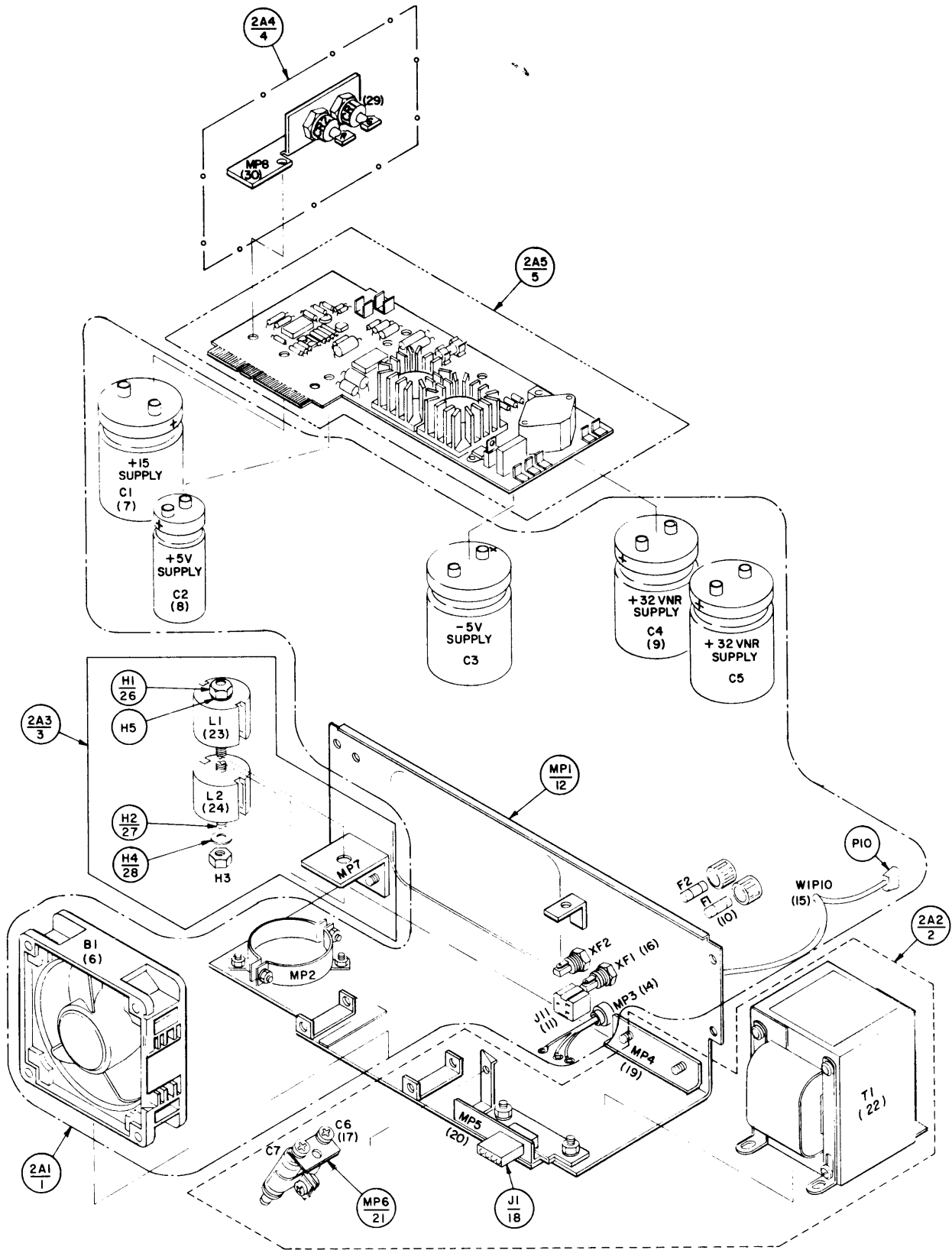


Figure 6-7. Nova 800 Power Supply Unit  
6-32



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Fig. & Index No.	Reference Designator	MFR Part No.	1 2 3 4 5 6 7 8 9 DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6- 7	2	005-000302	. POWER SUPPLY UNIT(See Figure 6-2-2 for NHA). . . . .	. . . . .	REF
- 1	2A1	005-000301	. . C HASSIS ASSEMBLY(Detailed breakdown provided in Figure 6-7). . . . .	. . . . .	1
- 2	2A2	005-000297	. . T RANSFORMER ASSEMBLY(De-tailed breakdown provided in Figure 6-7). . . . .	. . . . .	1
- 3	2A3	005-000296	. . C HOKE ASSEMBLY(Detailed breakdown provided in Figure 6-7). . . . .	. . . . .	1
- 4	2A4	005-000298	. . D IODE ASSEMBLY(Detailed breakdown provided in Figure 6-7). . . . .	. . . . .	1
- 5	2A5	005-000299	. . P RINTED CIRCUIT BOARD ASSEMBLY(See Figure 6-8 for detailed breakdown). . . . .	. . . . .	1
	2A1	005-000301	. . C HASSIS ASSEMBLY(See Figure 6-7-1 for NHA). . . . .	. . . . .	REF
- 6	B1	M747	. . . . F AN, Axial(0063). . . . .	1	
- 7	C1, C3	DCM383U0 20CB2B	. . . . C APACITOR, 38,000 $\mu$ fd, 20VDC (0056). . . . .	2	
- 8	C2	103-000051-00	. . . . C APACITOR, 20,000 $\mu$ fd, 10VDC (0059). . . . .	1	
- 9	C4, C5	DCM243U040 CB2B	. . . . C APACITOR, 40,000 $\mu$ fd, 40VDC (0056). . . . .	2	
-10	F1, F2	ABC10	. . . . F USE, 10Amperes, 250Volt (0060). . . . .	2	
-11	J11	1369	. . . . C ONVENIENCE OUTLET, 1 15VAC(0023). . . . .	1	
-12	MP1	002-000267	. . . . C HASSIS(0010). . . . .	1	
-13	MP2	CMC-40	. . . . B RACKET, Capacitor Mounting (2 1/2 inch diameter)(0015). . . . .	1	
-14	MP3	SR-6P3-4	. . . . S TRAIN RELIEF(0044). . . . .	1	
-15	W1P10	17405	. . . . E LECTRICAL POWER CABLE W/male PLUG Connector (0021). . . . .	1	

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-7	.Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-16	XF1, XF	HKP	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	FUSE HOLDER(0060). . . . .	2	
	2A2	005-000297	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	TRANSFORMER ASSEMBLY(See Figure 6-7-2 for NHA). . . . .		REF
-17	C6, C7	48P9	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CAPACITOR, 0.1 $\mu$ fd, 250VAC (0015). . . . .	2	
-18	J1	1490R	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CONNECTOR, Receptacle (0062). . . . .	1	
-19	MP4	002-000328	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	BRACKET, Transformer (0010). . . . .	1	
-20	MP5	002-000268	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	BRACKET, Filter Capacitor Mounting(0010). . . . .	1	
-21	MP6	002-000302	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	TERMINAL BOARD(0010). . . . .	1	
-22	T1	104-000017	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	TRANSFORMER, Power(0010).	1	
	2A3	005-000296	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CHOKE ASSEMBLY(See Figure 6-7-3 for NHA). . . . .		REF
-23	L1	005-000474	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CHOKE SUBASSEMBLY, +5 Volts(0010). . . . .	1	
-24	L2	005-000475	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CHOKE SUBASSEMBLY, +15 Volts(0010). . . . .	1	
-25	MP7	002-000269	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	BRACKET, Choke Mounting (0010). . . . .	1	
-26	H1, H3	106-000029	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	NYLON MACHINE THREAD NUTS, 10-24(0010). . . . .	2	
-27	H2	002-000381	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	NYLON THREADED ROD 10-24, 2 7/8 inches Long (0010). . . . .	1	
-28	H4, H5	106-000030	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	NYLON FLAT WASHER(0010)	2	
	2A4	005-000298	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	DIODE ASSEMBLY(See Figure 6-7-4 for NHA). . . . .		REF
-29	CR1, CR2	1N3899R	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	DIODE(0026). . . . .	2	
-30	MP8	002-000272	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	BRACKET, Diode Mounting (0010). . . . .	1	

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Fig. & Index No.	Reference Designator	MFR Part No.										Qty. Per Assy.	Qty. Per Unit			
			1	2	3	4	5	6	7	8	9			DESCRIPTION		
6-8	2A5	005-000299	.	.	.	.	.	.	.	.	.	.	PRINTED CIRCUIT BOARD ASSEMBLY(See Figure 6-7-5 for NHA). . . . .	.	.	REF
-1	C8, C10, C11, C13, C16, C19, C21	Y5FO503M	.	.	.	.	.	.	.	.	.	.	CAPACITOR, .05 $\mu$ fd, 12VDC (0019). . . . .	7		
-2	C9	D6R8A6MZ	.	.	.	.	.	.	.	.	.	.	CAPACITOR, 6.8 $\mu$ fd, 6VDC (0047). . . . .	1		
-3	C12, C17, C18, C23	Y5U0103Z	.	.	.	.	.	.	.	.	.	.	CAPACITOR, .01 $\mu$ fd, 50VDC (0019). . . . .	4		
-4	C14	D6R8B35K	.	.	.	.	.	.	.	.	.	.	CAPACITOR, 6.8 $\mu$ fd, 35VDC (0047). . . . .	1		
-5	C20, C22*	CD15ED680J	.	.	.	.	.	.	.	.	.	.	CAPACITOR, 68pf, 500VDC(0036)	2**		
-6	C24	D47C20K1	.	.	.	.	.	.	.	.	.	.	CAPACITOR, 47 $\mu$ fd, 20VDC(0047)	1		
-7	CR3, CR4, CR5, CR6	CD81148	.	.	.	.	.	.	.	.	.	.	DIODE(0034). . . . .	4		
-8	CR7	MDA962A-1	.	.	.	.	.	.	.	.	.	.	DIODE, Bridge(0026). . . . .	1		
-9	CR8	MDA970-1	.	.	.	.	.	.	.	.	.	.	DIODE, Bridge(0026). . . . .	1		
-10	F2	AGA15	.	.	.	.	.	.	.	.	.	.	FUSE, 15 Amperes(0060). . . . .	1		
-11	H6, H7	123-000038	.	.	.	.	.	.	.	.	.	.	HEAT SINK(0010). . . . .	2		
-11a	MP1	107-000079-08	.	.	.	.	.	.	.	.	.	.	PRINTED CIRCUIT BOARD, POWER SUPPLY PCB(0010). . . . .	1		
-12	Q1 thru Q5	2N4400	.	.	.	.	.	.	.	.	.	.	TRANSISTOR(0026). . . . .	5		
-13	Q6	2N4441	.	.	.	.	.	.	.	.	.	.	RECTIFIER, SEMICONDUCTOR CONTROLLED(0026). . . . .	1		

\*Components Used in Dual + 5V Power Supply Only

\*\* Decrease Qty by One For Standard Power Supply

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Fig. & Index No.	Reference Designator	MFR Part No.										Qty. Per Assy.	Qty. Per Unit
			1	2	3	4	5	6	7	8	9		
6-8	. Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-14	Q7, Q10, Q12	D43C5	. . .								TRANSISTOR(0064). . . . .	3	
-15	Q8, Q9	2N4399	. . .								TRANSISTOR(0026). . . . .	2	
-16	Q11	TIP34A	. . .								TRANSISTOR(0038). . . . .	1	
-17	R1, R13, R25, R43* R49	CB2725	. . .								RESISTOR 2.7K 1/4W, 5%(0011)	5**	
-18	R2, R4, R28, R40, R48	CB2715	. . .								RESISTOR, 270Ω, 1/4W, 5%(0011)	5	
-19	R3	CB4705	. . .								RESISTOR, 47Ω, 1/4W, 5%(0011)	1	
-20	R5 thru R8, R11, R12, R47	CB5615	. . .								RESISTOR, 560Ω, 1/4W, 5%(0011)	7	
-21	R9, R21, R24, R39, R50	CB1025	. . .								RESISTOR, 1K, 1/4W, 5%(0011)	5	
-22	R10, R15, R16, R34	CB1015	. . .								RESISTOR, 100Ω, 1/4W, 5%(0011)	4	
-23	R14, R29, R32	EB1005	. . .								RESISTOR, 10Ω, 1/2W, 5%(0011)	3	
-24	R17, R33	CB3915	. . .								RESISTOR, 390Ω, 1/4W, 5%(0011)	2	
-25	R18	GB2715	. . .								RESISTOR, 270Ω, 1W, 5%(0011)	1	
-26	R19, R20, R26	EL2-1.5Ω	. . .								RESISTOR, 1.5Ω, 3W, 5%(0061)	3	

\*Components Used in Dual + 5V Power Supply Only

\*\*Decrease Qty by One For Standard Power Supply

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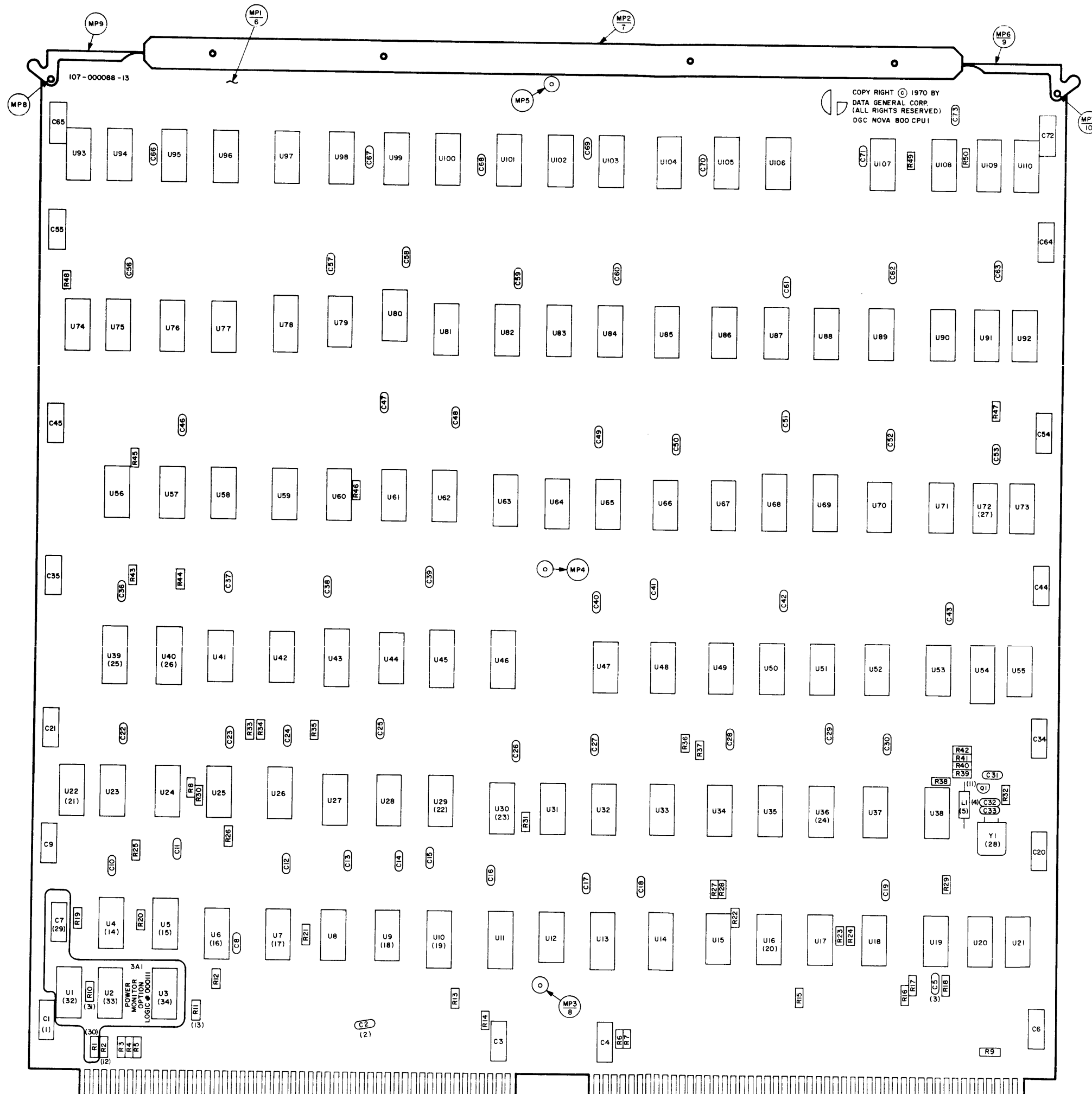
Fig. & Index No.	Reference Designator	MFR Part No.										DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
			1	2	3	4	5	6	7	8	9			
6-8	. Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-27	R22, R38	CB1035	. . .									RESISTOR, 10K, 1/4W, 5%(0011)	2	
-28	R23, R42	CB2245	. . .									RESISTOR, 220K 1/4W, 5%(0011)	2	
-29	R27	EL21-600Ω	. . .									RESISTOR, 600Ω, 3W, 5%(0061)	1	
-30	R30, R31	EL10A-.2Ω	. . .									RESISTOR, 0.2Ω, 10W, 5%(0061)	2	
-31	R35, R44	CB3315	. . .									RESISTOR, 330Ω, 1/4W, 5%(0011)	2	
-32	R36	CB7515	. . .									RESISTOR, 750Ω, 1/4W, 5%(0011)	1	
-33	R37	GB1815	. . .									RESISTOR, 180Ω, 1W, 5%(0011)	1	
-34	R41	CB1225	. . .									RESISTOR, 1.2K, 1/4W, 5%(0011)	1	
-35	R45	360T101A	. . .									POTENTIOMETER, 100Ω, 10% (0065). . . . .	1	
-36	R46	EL5-4Ω	. . .									RESISTOR, 4Ω, 5W, 5%(0061). .	1	
-37	RT1	KA35L1	. . .									THERMISTOR, 5K(0028). . .	1	
-38	U1	7438	. . .									INTEGRATED CIRCUIT PACK - AGE, Quad 2-Input NAND Gates(0015). . . . .	1	
-39	U2, U3	μA723	. . .									INTEGRATED CIRCUIT PACK - AGE, Precision Voltage Regu - lator(0013). . . . .	2	
-40	VR1, VR2	1N5251	. . .									DIODE, BREAKDOWN(0026). .	2	
-41	VR3, VR5	1N5234B	. . .									DIODE, BREAKDOWN(0026). .	2	
-42	VR4	1N5248B	. . .									DIODE, BREAKDOWN(0026). .	1	
-43	XF2	101002	. . .									CLIP, FUSE HOLDER(0025). .	1	

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Figure 6-9. Nova 800 CPU-1 PCB Assembly

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DATA GENERAL CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

Fig. & Index No.	Reference Designator	MFR Part No.	1 2 3 4 5 6 7 8 9 DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-9	3	005-000357	. . . CENTRAL PROCESSOR -1 PCB ASSEMBLY(See Figure 6-2-3 for NHA). . . . .	. . .	REF
-1	C1, C3, C4, C6, C9, C20, C21, C34, C35, C44, C45, C54, C55, C64, C65, C72	D6R8B35K	. . . CAPACITOR, 6.8 $\mu$ fd, 35VDC (0047). . . . .	16	
-2	C2, C8, C10 thru C19, C22 thru C31, C36 thru C43, C46 thru C53, C56 thru C63, C66 thru C71, C73	Y5FO503M	. . . CAPACITOR, .05 $\mu$ fd, 12VDC (0019). . . . .	53	
-3	C5	CD15FD221J	. . . CAPACITOR, 220pf, 500VDC (0036). . . . .	1	
-4	C32, C33	CD15FD101J	. . . CAPACITOR, 100pf, 500VDC (0036). . . . .	2	
-5	L1	07-4100-3000	. . . COIL, RADIO FREQUENCY, 100 $\mu$ Henries(0066). . . . .	1	
-6	MP1	107-000088	. . . PRINTED CIRCUIT BOARD NOVA 800 CPU-1(0010). . .	1	
-7	MP2	002-000126	. . . HANDLE, PCB(0010). . . . .	1	
-8	MP3, MP4, MP5	002-000051	. . . SPACER, PCB(0010). . . . .	3	
-9	MP6, MP9	90-0-6503-11	. . . INJECTOR(0048). . . . .	2	

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-9	. Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-10	MP7, MP8	90-0-5858-24	. . .									RIVET(0048). . . . .	2	
-11	Q1	MPS 3640	. . .									TRANSISTOR(0026). . . . .	1	
-12	R2 thru R9, R12 thru R17, R19 thru R50	CB4715	. . .									RESISTOR, 470 $\Omega$ , 1/4W, 5%(0011)	46	
-13	R11, R18	CB1215	. . .									RESISTOR, 120 $\Omega$ , 1/4W, 5%(0011)	2	
-14	U4, U21, U53, U67, U76, U86, U92, U99	9005	. . .									INTEGRATED CIRCUIT PACKAGE, Dual 2-Wide AND-OR - Invert Gates(0013). . . . .	8	
		◇8840	. . .									INTEGRATED CIRCUIT PACKAGE, Dual 2-Wide AND-OR - Invert Gates(0014)		
-15	U5, U12, U15, U19, U31, U33, U50, U52, U74, U79	9009	. . .									INTEGRATED CIRCUIT PACKAGE, Buffer(0013). . . . .	10	
		◇8859	. . .									INTEGRATED CIRCUIT PACKAGE, Buffer(0014)		
-16	U6, U32, U35, U42, U47, U56, U81, U87, U89, U95, U97, U105	9002	. . .									INTEGRATED CIRCUIT PACKAGE, Quad 2-Input Gates(0013)	12	
		◇8889	. . .									INTEGRATED CIRCUIT PACKAGE, Quad 2-Input Gates(0014)		

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-9	. Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-17	U7, U8, U18, U25 thru U27, U49	MC3026	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	INTEGRATED CIRCUIT PACKAGE, Dual 4-Input AND Power Gates(0026). . . . .	7	
-18	U9, U24, U38, U48, U59, U66, U77, U84, U100	8H90	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	INTEGRATED CIRCUIT PACKAGE, Hex Inverter(0014). . .	9	
-19	U10, U11, U13, U14	7475	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	INTEGRATED CIRCUIT PACKAGE, 4-Bit Bistable Latch (0038). . . . .	4	
-20	U16, U17, U20, U34, U37, U55, U102	MC3061	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	INTEGRATED CIRCUIT PACKAGE, Dual J-K Flip-Flop(0026)	7	
-21	U22, U23, U28, U58, U71, U73, U88, U91, U106	9003	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	INTEGRATED CIRCUIT PACKAGE, Three 3-Input NAND Gates(0013). . . . .	9	
		◇8879	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	INTEGRATED CIRCUIT PACKAGE, Three 3-Input NAND Gates(0014)		
-22	U29, U44, U80, U83, U85, U93, U96, U107	9008	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	INTEGRATED CIRCUIT PACKAGE, Single 4-Wide AND-OR-Invert Gates(0013). . . . .	8	
		◇8848	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	INTEGRATED CIRCUIT PACKAGE, Single 4-Wide AND-OR-Invert Gates(0014)		

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-9 -23	. Continued U30, U60, U61, U63, U108, U109	USN7438	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2-Input NAND Gates (0015).	6	
-24	U36, U41, U51, U57, U62, U64, U65, U70, U75, U90, U94, U98, U110	8885  ◇MC3002	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2-Input NAND Interface Gates(0014).	13	
-25	U39, U54, U68, U69, U78	8271	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, 4-BIT Shift Register (0014)	5	
-26	U40, U43, U45, U46	8234	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, 2-Input, 4-Bit Digital Multiplexer(0014).	4	
-27	U72, U101, U103, U104	74H55	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, 4-Input AND-OR-INVERT Gates(0038).	4	
-28	Y1  3A1	No Number  005-000360	.	.	.	.	.	.	.	.	.	CRYSTAL, 20.000MHz(0037).	1	
-29	C7	D6R8B35K	.	.	.	.	.	.	.	.	.	CAPACITOR, 6.8μfd, 35VDC (0047).	1	
-30	R1	CB4715	.	.	.	.	.	.	.	.	.	RESISTOR, 470Ω, 1/4W, 5% (0011).	1	

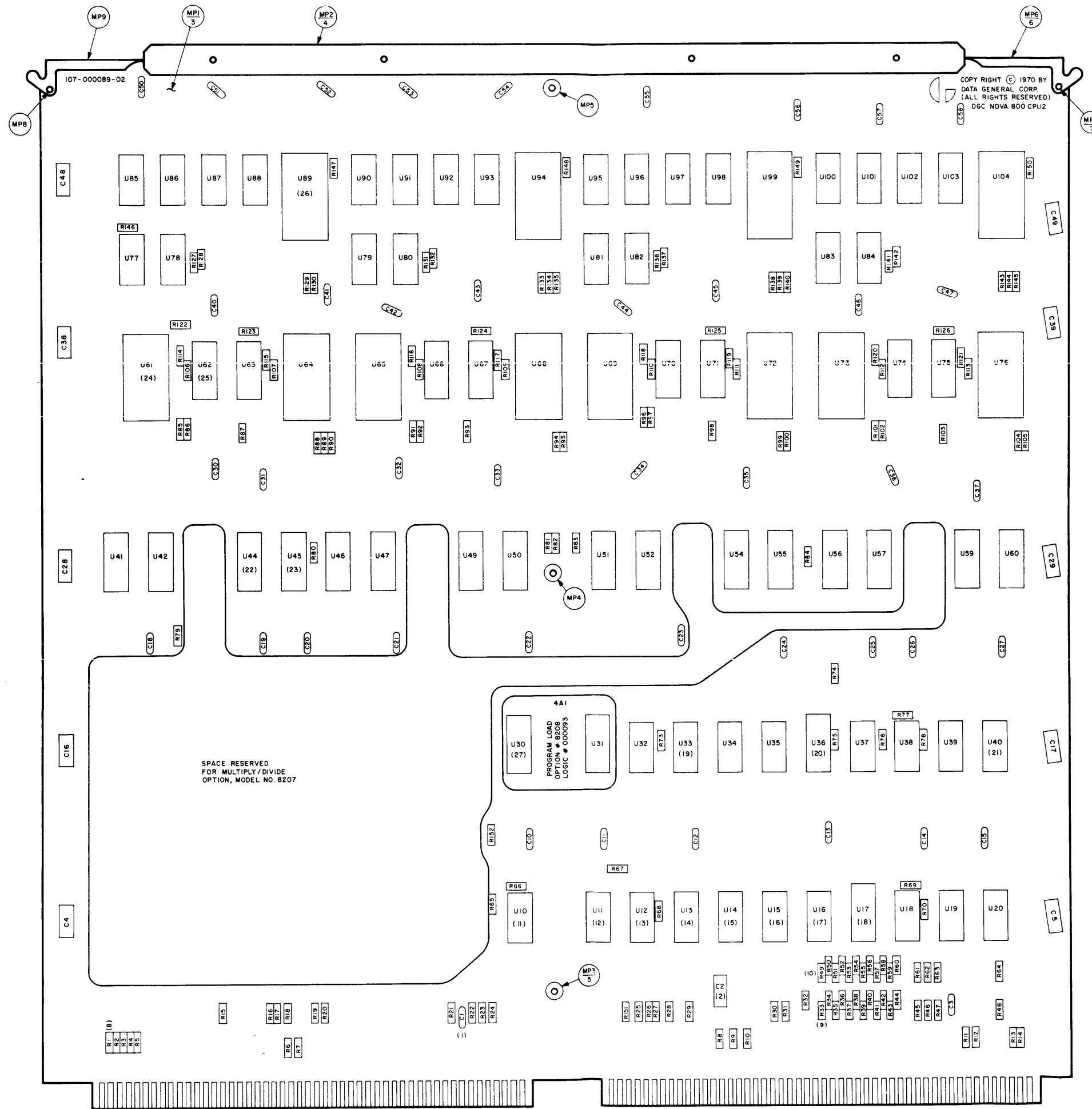
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Fig. & Index No.	Reference Designator	MFR Part No.										Qty. Per Assy.	Qty. Per Unit
			1	2	3	4	5	6	7	8	9		
6-9	. Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-31	R10	CB3335	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1	
-32	U1	9601	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1	
-33	U2	9002	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1	
		◇8889	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1	
-34	U3	7474	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1	
		◇8828	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1	

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Figure 6-10. Nova 800 CPU-2 PCB Assembly



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DATA GENERAL CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-10	4	005-000358	.	.								CENTRAL PROCESSOR-2 PCB ASSEMBLY(See Figure 6-2-4 for NHA). . . . .		REF
-1	C1, C3, C10, C11 thru C15, C18 thru C27, C30 thru C37, C40 thru C47, C50 thru C58	Y5FO503M	.	.	.							CAPACITOR, .05 $\mu$ fd, 12VDC (0019). . . . .	43	
-2	C2, C4, C5, C16, C17, C28, C29, C38, C39, C48, C49	D6R8B35K	.	.	.							CAPACITOR, 6.8 $\mu$ fd, 35VDC (0047). . . . .	11	
-3	MP1	107-000089	.	.	.							PRINTED CIRCUIT BOARD NOVA 800 CPU-2 (0010). . . . .	1	
-4	MP2	002-000126	.	.	.							HANDLE, PCB(0010). . . . .	1	
-5	MP3, MP4, MP5	002-000051	.	.	.							SPACER, PCB(0010). . . . .	3	
-6	MP6, MP9	90-0-6503-11	.	.	.							INJECTOR(0048). . . . .	2	
-7	MP7, MP8	90-0-5858-24	.	.	.							RIVET(0048) . . . . .	2	
-8	R1 thru R32, R65 thru R70 R73 thru R152	CB4715	.	.	.							RESISTOR, 470 $\Omega$ , 1/4W, 5% (0011) . . . . .	118	
-9	R33 thru R48	CB3315	.	.	.							RESISTOR, 330 $\Omega$ , 1/4W, 5% (0011). . . . .	16	
-10	R49 thru R64	CB3915	.	.	.							RESISTOR, 390 $\Omega$ , 1/4W, 5% (0011). . . . .	16	

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-10	. Continued													
-11	U10, U19, U32	8H90	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Hex Inverter(0014).	3	
-12	U11, U34, U38, U78, U80, U82, U84	9002	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2-Input Gates (0013).	7	
		◇8889	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2 -Input Gates(0014)		
-13	U12, U37, U39	9005	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Dual 2-Wide AND-OR-Invert Gates(0013).	3	
		◇8840	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Dual 2 -Wide AND-OR-Invert Gates(0014)		
-14	U13	9003	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Three 3-Input NAND Gates(0013).	1	
		◇8879	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Three 3-Input NAND Gates(0014)		
-15	U14, U18, U20	MC3026	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Dual 4-Input AND Power Gates(0026).	3	
-16	U15	MC3061	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Dual J-K Flip-Flop (0026).	1	
-17	U16	8885	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2-Input NAND Interface Gates(0014).	1	
		◇MC3002	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2 -Input NAND Interface Gates(0026)		

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-10	. Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-18	U17, U41, U46, U51, U56	7475	. . .									INTEGRATED CIRCUIT PACKAGE 4-Bit Bistable Latch (0038). . . . .	5	
-19	U33, U35, U77, U79, U81, U83	USN7438	. . .									INTEGRATED CIRCUIT PACKAGE, Quad 2-Input NAND Gates(0015). . . . .	6	
-20	U36, U42, U47, U52, U57	8271	. . .									INTEGRATED CIRCUIT PACKAGE, 4-BIT Shift Register (0014). . . . .	5	
-21	U40, U85 thru U88, U90 thru U93, U95 thru U98, U100 thru U103	9008	. .									INTEGRATED CIRCUIT PACKAGE, Single 4-Wide AND-OR-Invert Gates(0013). . . . .	17	
		◇8848	. . .									INTEGRATED CIRCUIT PACKAGE, Single 4-Wide AND-OR Invert Gates(0014)		
-22	U44, U49, U54, U59	9316	. . .									INTEGRATED CIRCUIT PACKAGE, 4-Bit Binary Counter (0013). . . . .	4	
-23	U45, U50, U55, U60	8234	. . .									INTEGRATED CIRCUIT PACKAGE, 2-Input, 4-Bit Digital Multiplexer(0014). . . . .	4	
-24	U61, U64, U65, U68, U69, U72, U73, U76	8264	. . .									INTEGRATED CIRCUIT PACKAGE, 3-Input, 4 Bit Digital Multiplexer(0014)	8	

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-10 -25	. Continued U62, U63, U66, U67, U70, U71, U74, U75	74170	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, 4-by-4 Register Files (0038).	8	
-26	U89, U94, U99, U104  4A1	8260  005-000361	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Arithmetic Logic Element(0014). PROGRAM LOAD OPTIONAL SUBASSEMBLY, Model 8208 (0010).	4 1	
-27	U30, U31	7488	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, 256 Bit Read-Only Memory(0038).	2	

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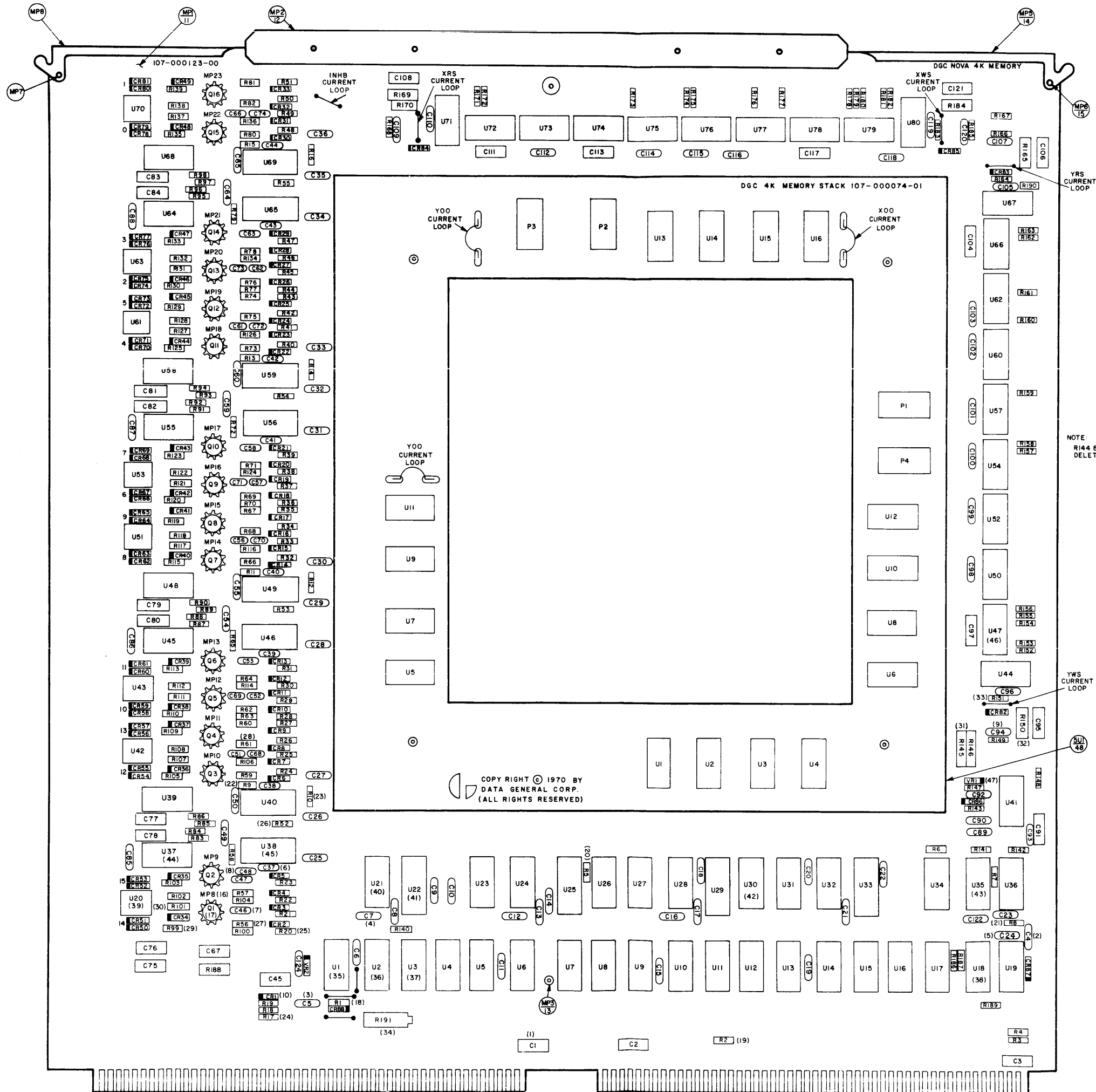


Figure 6-11. Nova 800 4K Memory PCB Assembly

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Fig. & Index No.	Reference Designator	MFR Part No.	DESCRIPTION									Qty. Per Assy.	Qty. Per Unit
			1	2	3	4	5	6	7	8	9		
6-11	5	005-000364	.	.	.	.	.	.	.	.	.	.	REF
-1	C1 thru C3, C45, C67, C75 thru C84, C91, C95, C97, C104, C106, C108, C111 C113, C117, C121	D6R8B35K	.	.	.	.	.	.	.	.	.	25	
-2	C4, C6, C10, C11, C15, C19, C25 thru C36, C49, C50, C54, C55, C59, C60, C64, C65, C89, C96, C105, C110, C119, C122 thru C124	Y5FO503M	.	.	.	.	.	.	.	.	.	31	
-3	C5, C90	CD15FC560J	.	.	.	.	.	.	.	.	.	2	
-4	C7 thru C9, C12 thru C14, C16 thru C18, C20 thru C22, C23	DM-15-101J	.	.	.	.	.	.	.	.	.	13	

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-11	. Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-5	C24, C85 thru C88, C92, C98 thru C103, C112, C114, C115, C116, C118	Y5U0103Z	. . .									CAPACITOR .01 $\mu$ fd, 50VDC (0019). . . . .	17	
-6	C37 thru C44	TAG00-6.8/6.3-50/20	. . .									CAPACITOR, 6.8 $\mu$ fd, 6.3VDC (0068). . . . .	8	
-7	C46, C47, C51, C52, C56, C57, C61, C62, C66, C68 thru C74	8121-100-W5R0-682K	. .									CAPACITOR, 6800pf, 100VDC (0019). . . . .	16	
-8	C48, C53, C58, C63	CD15ED330J	. . .									CAPACITOR, 33pf, 500VDC (0036). . . . .	4	
-9	C94, C107, C109, C120	CD15FC821J	. . .									CAPACITOR, 820pf, 300VDC (0036). . . . .	4	
-10	CR1 thru CR88	CD81148	. . .									DIODE(0034). . . . .	88	
-11	MP1	107-000123-00	. . .									PRINTED CIRCUIT BOARD NOVA 800 4K MEMORY(0010)	1	
-12	MP2	002-000126	. . .									HANDLE, PCB(0010). . . . .	1	
-13	MP3, MP4	002-000051	. . .									SPACER, PCB(0010). . . . .	2	
-14	MP5, MP8	90-0-6503-11	. . .									INJECTOR(0048). . . . .	2	
-15	MP6, MP7	90-0-5858-24	. . .									RIVET(0048). . . . .	2	

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Fig. & Index No.	Reference Designator	MFR Part No.										Qty. Per Assy.	Qty. Per Unit
			1	2	3	4	5	6	7	8	9		
6-11	Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-16	MP8 thru MP23	30-1249	. . .										
												16	
-17	Q1 thru Q16	2N5022	. . .										
												16	
-18	R1, R83 thru R98, R140, R141	CB4715	. . .										
												19	
-19	R2 thru R4, R7, R186, R187	CB1035	. . .										
												6	
-20	R5, R6, R148, R152 thru R163, R167, R171 thru R182, R190	CB7515	. . .										
												29	
-21	R8, R143, R147, R189	CB2215	. . .										
												4	
-22	R9, R11, R13, R15	NA55(RN55D)	. . .										
												4	
-23	R10, R12, R14, R16, R58, R65, R72, R79, R142	CB3325	. . .										
												9	



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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-11 -24	. Continued R17 thru R19	CB1225	.	.	.	.	.	.	.	.	.	RESISTOR, 1.2K, 1/4W, 5%(0011)	3	
-25	R20 thru R51	NA55(RN55D)	.	.	.	.	.	.	.	.	.	RESISTOR, 150Ω, 1/8W, 1%(0041)	32	
-26	R52 thru R55, R149, R166, R168, R185	CB1005	.	.	.	.	.	.	.	.	.	RESISTOR, 10Ω, 1/4W, 5%(0011).	8	
-27	R56, R57, R59, R60, R62, R64, R66, R67, R69, R71, R73, R74, R76, R78, R80, R81	CB8205	.	.	.	.	.	.	.	.	.	RESISTOR, 82Ω, 1/4W, 5%(0011)	16	
-28	R61, R63, R68, R70, R75, R77, R82, R100, R104, R106, R114, R116, R124, R126, R134, R136	CB4705	.	.	.	.	.	.	.	.	.	RESISTOR, 4.7Ω, 1/4W, 5%(0011)	16	

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit	
6-11 -29	. Continued R99,R103, R105,R109, R110,R113, R115,R119, R120,R123, R125,R129, R130,R133, R135,R139	C4	.	.	.	.	.	.	.	.	.	.	R RESISTOR, 91Ω, 1/4W, 5%(0041)	16	
-30	R101,R102, R107,R108, R111,R112, R117,R118, R121,R122, R127,R128, R131,R132, R137,R138	C4	.	.	.	.	.	.	.	.	.	.	RESISTOR, 30Ω, 1/4W, 5%(0041).	16	
-31	R145,R146, R188	EL2F	.	.	.	.	.	.	.	.	.	.	RESISTOR, 180Ω, 3W, 5%(0061).	3	
-32	R150,R165, R169,R184	EL2N	.	.	.	.	.	.	.	.	.	.	RESISTOR, 30Ω, 3W, 1%(0061).	4	
-33	R151,R164, R170,R183	VALUE OF RESISTANCE IS FACTORY SELECTED										4			
-34	R191	3005P-1-202	.	.	.	.	.	.	.	.	.	.	POTENTIOMETER, 2K, ±10% (0031).	1	
-35	U1, U19, U26, U36, U41	MC3026	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACK - A GE, Dual 4-Input AND Power Gates(0026).	5	
-36	U2, U4, U6, U8, U10, U12, U14, U16	USN7438	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACK - A GE, Quad 2-Input NAND Gates(0015).	8	

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-11 -37	. Continued U3, U5, U7, U9, U11, U13, U15, U17	9005	.	.	.	.	.	.	.	.	.	.		
		◇8840	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Dual 2-Wide AND-OR-Invert Gates(0013).	8	
			.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Dual 2-Wide AND-OR-Invert Gates(0014)		
-38	U18, U44, U67, U71, U80	8H90	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Hex Inverter(0014).	5	
-39	U20, U42, U43, U51, U53, U61, U63, U70	75451	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Interface Drivers(0038)	8	
-40	U21, U23, U24, U27, U28, U31, U32, U34	7474	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, D-Flop(0038).	8	
		◇8828	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, D-Flop(0014)		
-41	U22, U25, U29, U33	7475	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, 4-Bit Bistable Latches(0038).	4	
-42	U30	7437	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Four 2-Input NAND Gates(0038).	1	
		◇7437	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Four 2-Input NAND Gates(0015)		
-43	U35	9007	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Single 8-Input Gate(0013).	1	

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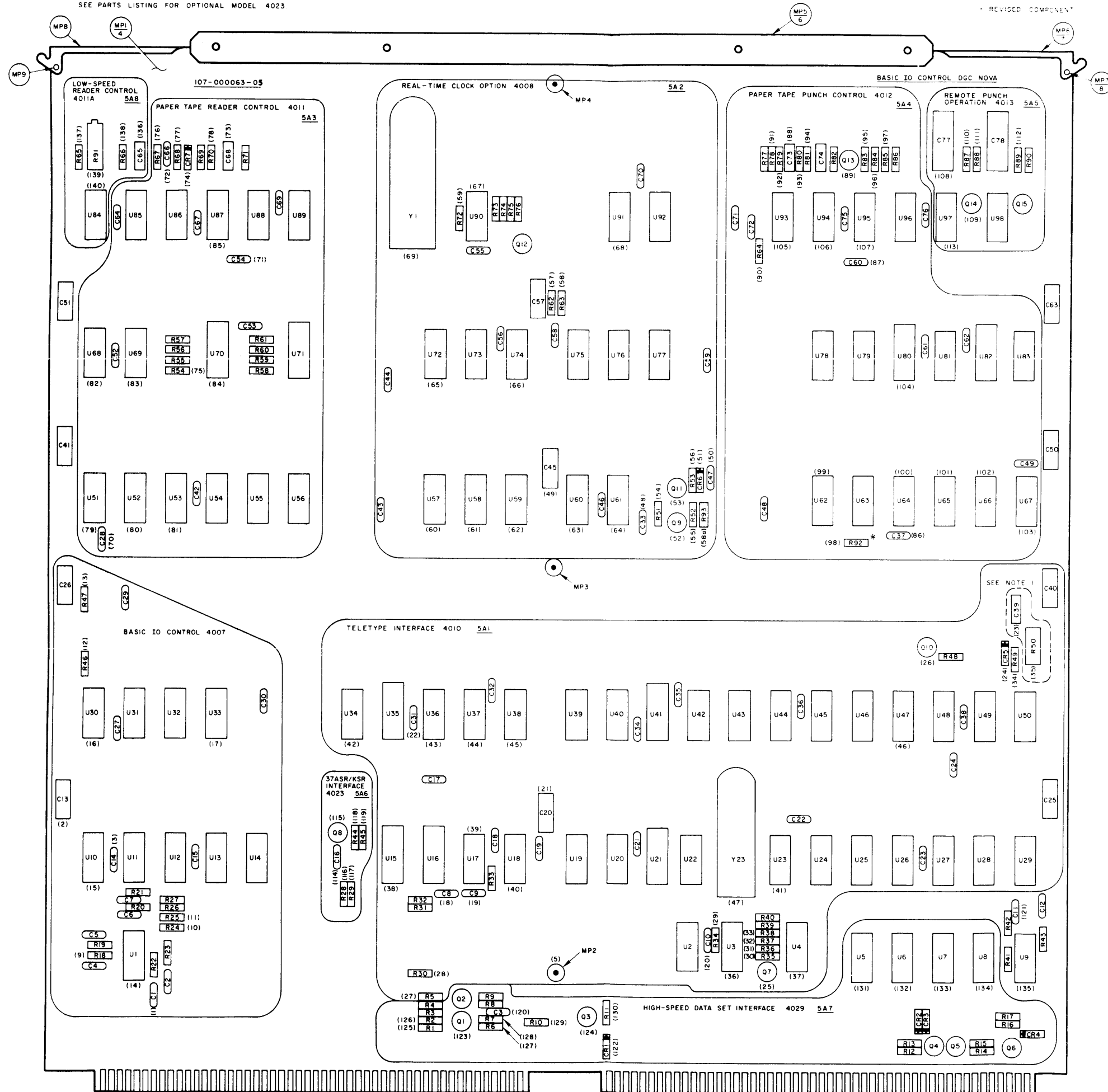
Fig. & Index No.	Reference Designator	MFR Part No.	1 2 3 4 5 6 7 8 9 DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-11	. Continued	. . . . .	. . . . .		
-44	U37, U39, U45, U48, U55, U58, U64, U68	9002  ◇8889	. . . INTEGRATED CIRCUIT PACK - AGE, Quad 2-Input Gates(0013) . . . INTEGRATED CIRCUIT PACK - AGE, Quad 2-Input Gates(0014)	8	
-45	U38, U40, U46, U49, U56, U59, U65, U69	7524	. . . INTEGRATED CIRCUIT PACK - AGE, Dual Sense Amplifiers (0038). . . . .	8	
-46	U47, U50, U52, U54, U57, U60, U62, U66, U72 thru U79	75324	. . . INTEGRATED CIRCUIT PACK - AGE, Memory Driver with Decode Inputs (0038). . . . .	16	
-47	VR1, VR2	1N5235B	. . . DIODE, BREAKDOWN(0026). . .	2	
-48	5U1	005-000272	. . . CORE MEMORY STACK SUB- ASSEMBLY(0010). . . . .	1	

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NOTE: 1 WHEN 4023 OPTION IS INSTALLED, R50 IS DELETED,  
AND C39 IS CHANGED TO A 01 MFD.  
SEE PARTS LISTING FOR OPTIONAL MODEL 4023.



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Figure 6-12. Basic I/O Control PCB Assembly  
6-65/6-66

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DATA GENERAL CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-12	6	007-000011-05	.	.								BASIC I/O CONTROL PCB ASSEMBLY, Model 4007(See Figure 6-2-5 for NHA). . . . .		REF
-1	C1, C2, C4 thru C7	CD15FD101J	.	.	.							CAPACITOR, 100pf, 500VDC (0036). . . . .	6	
-2	C13, C26, C41, C50, C51, C63	D6R8B35K	.	.	.							CAPACITOR, 6.8 $\mu$ fd, 35VDC (0047). . . . .	6	
-3	C14, C15, C27, C29, C30	Y5FO-503M	.	.	.							CAPACITOR, .05 $\mu$ fd, 50VDC (0019). . . . .	5	
-4	MP1	107-000063-05	.	.	.							PRINTED CIRCUIT BOARD, BASIC I/O CONTROL(0010)	1	
-5	MP2, MP3, MP4	002-000051	.	.	.							SPACER, Top PCB(0010). . . . .	3	
-6	MP5	002-000126	.	.	.							HANDLE, PCB(0010). . . . .	1	
-7	MP6, MP8	90-0-6503-11	.	.	.							INJECTOR(0048). . . . .	2	
-8	MP7, MP9	90-0-5858-24	.	.	.							RIVET(0048). . . . .	2	
-9	R18, R19, R20, R21, R22, R23	CB1025	.	.	.							RESISTOR, 1K, 1/4W, 5%(0011)	6	
-10	R24, R27	CB3315	.	.	.							RESISTOR, 330 $\Omega$ , 1/4W, 5%(0011)	2	
-11	R25, R26	CB3915	.	.	.							RESISTOR, 390 $\Omega$ , 1/4W, 5%(0011)	2	
-12	R46	CB1815	.	.	.							RESISTOR, 180 $\Omega$ , 1/4W, 5%(0011)	1	
-13	R47	CB4715	.	.	.							RESISTOR, 470 $\Omega$ , 1/4W, 5%(0011)	1	

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-12 -14	. Continued U1, U2, U11, U31	9002 ◇8889	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2-Input Gates(0013)	4	
			.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2-Input Gates (0014)		
-15	U10, U12, U13, U14, U32	9016 ◇8H90	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Hex Inverter(0013).	5	
			.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Hex Inverter(0014)		
-16	U30	9003 ◇8879	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Three 3-Input NAND Gates(0013)	1	
			.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Three 3-Input NAND Gates(0014)		
-17	U33  5A1	USN7439  007-000014	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2-Input NAND (OC) Gates(0015).	1	
			.	.	.	.	.	.	.	.	.	*OPTIONAL SUBASSEMBLY TELETYPE INTERFACE, Model No. 4010(0010).	1	
-18	C8, C17 thru C19, C21 thru C24, C32, C34 thru C36, C38	5635-000-Y5FO-503M	.	.	.	.	.	.	.	.	.	CAPACITOR, .05μfd, 12VDC (0019).	13	
-19	C9	CD15FD101J	.	.	.	.	.	.	.	.	.	CAPACITOR, 100pf, 500VDC (0036).	1	

\*See Table 6-3 and Figure 6-6 (NOTE 1) for (Device/Computer) Connector Information. See Figure 6-12 Optional Model 4009 Teletype on-line control



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Fig. & Index No.	Reference Designator	MFR Part No.										DESCRIPTION	Qty. Per Assy.	Qty. Per Unit									
			1	2	3	4	5	6	7	8	9												
6-12 -20	Continued C10	CD15FC561J	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	CAPACITOR, 560pf, 500VDC (0036) (See Note 1 below). NOTE 1: The value of this capacitor depends on the operating frequency of crystal Y2. C10 is 560pf when the basic 14.08KHz crystal is installed. (See NOTE 2 for additional information concerning teletype crystal options).		
-21	C20, C25, C40	D6R8B35K	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	CAPACITOR, 6.8μfd, 35VDC (0047).	3		
-22	C31	CK103	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	CAPACITOR, .01μfd, 50VDC (0032).	1		
-23	C39	D1R0A35K1 ◇CK103	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	CAPACITOR, 1μfd, 35VDC (0047). CAPACITOR, .01μfd, 50VDC (0032) (Alternate Capacitor is installed under the 4023 option)	1		
-24	CR5	CD81148	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	DIODE(0034).	1		
-25	Q7	2N4125	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	TRANSISTOR(0026).	1		
-26	Q10	2N4123	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	TRANSISTOR(0026).	1		
-27	R5, R33	CB1025	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	RESISTOR, 1K, 1/4W, 5% (0011)	2		
-28	R30 thru R32, R48	CB3025	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	RESISTOR, 3K, 1/4W, 5% (0011)	4		

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-12	. Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-29	R34	CB5625	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 5.6K, 1/4W, 5% (0011). . . . .	1	
-30	R35	CB2215	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 220Ω, 1/4W, 5% (0011). . . . .	1	
-31	R36	CB1815	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 180Ω, 1/4W, 5% (0011). . . . .	1	
-32	R37	CB2725	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 2.7K, 1/4W, 5% (0011). . . . .	1	
-33	R38 thru R40	CB3325	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 3.3K, 1/4W, 5% (0011). . . . .	3	
-34	R49	CB4725	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 4.7K, 1/4W, 5% (0011). . . . .	1	
-35	R50	4410	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 470Ω, 3W, 5% (0027). . . . .	1	
												NOTE: R50 is deleted when option 4 023 is installed.		
-36	U3	NE510A	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, Dual Amplifier (0014). . . . .	1	
-37	U4	8281	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, 4 Stage Binary Counter(0014). . . . .	1	
-38	U15, U16, U21, U35, U41	9300	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, 4 Bit Shift Register(0013). . . . .	5	
-39	U17, U40	9004	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, Dual 4 -Input Gates(0013). . . . .	2	
		◇8819	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, Dual 4 -Input Gates(0014)		
-40	U18, U19, U20, U22	USN7439	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, Quad 2-Input NAND(OC) Gates(0015). . . . .	4	

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Fig. & Index No.	Reference Designator	MFR Part No.										DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
			1	2	3	4	5	6	7	8	9			
6-12 -41	Continued													
	U23 thru U29, U42 thru U44	7474									INTEGRATED CIRCUIT PACKAGE, D-Flop(0038).	10		
		◇8828									INTEGRATED CIRCUIT PACKAGE, D-Flop(0014)			
-42	U34, U39, U46	9016									INTEGRATED CIRCUIT PACKAGE, Hex Inverter (0013).	3		
		◇8H90									INTEGRATED CIRCUIT PACKAGE, Hex Inverter (0014)			
-43	U36	8T80									INTEGRATED CIRCUIT PACKAGE, Quad 2 -Input NAND Interface Gates(0014)	1		
-44	U37	9007									INTEGRATED CIRCUIT PACKAGE, Single 8-Input Gate(0013).	1		
-45	U38, U45, U48 thru U50	9002									INTEGRATED CIRCUIT PACKAGE, Quad 2-Input Gates(0013).	5		
		◇8889									INTEGRATED CIRCUIT PACKAGE, Quad 2-Input Gates(0014)			
-46	U47	9003									INTEGRATED CIRCUIT PACKAGE, Three 3 -Input NAND Gates(0013).	1		
		◇8879									INTEGRATED CIRCUIT PACKAGE, Three 3-Input NAND Gates(0014)			

NOTE 2: The size and frequency of the crystal installed with this optional subassembly depends on the operational Baud rate selected. The 14.08KHz crystal is installed in units operating at 110 Baud. The 19.2KHz crystal is installed in units operating at 150 Baud (under option 4023 standard low speed for Bell type 103 Data set or equivalent). The 153.6KHz crystal is used in units operating at 1200 Baud (Option 4029 standard high speed for Bell type 202 Data set or equivalent). Non-standard rates are also available on customer request, for example a unit selected to operate at 1800 Baud would require a 230.4KHz crystal.

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-12	. Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-47	Y2 5A2	No Number 007-000012	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CRYSTAL, 14.08KHz(0037) OPTIONAL SUBASSEMBLY REAL TIME CLOCK, Model No. 4008 (0010). . . . .	1 1	
-48	C33, C43, C44, C46, C47, C56, C58, C59, C70	5635-000-Y5FO- 503M	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CAPACITOR, .05 $\mu$ fd, 12VDC (0019). . . . .	9	
-49	C45, C57	D6R8B35K	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CAPACITOR, 6.8 $\mu$ fd, 35VDC (0047). . . . .	2	
-50	C55	CD7FA821J	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CAPACITOR, .820pf, 500 VDC(0036). . . . .	1	
-51	CR6	CD81148	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	DIODE(0034). . . . .	1	
-52	Q9	2N4123	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	TRANSISTOR(0026). . . . .	1	
-53	Q11, Q12	2N4125	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	TRANSISTOR(0026). . . . .	2	
-54	R51	CB2225	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	RESISTOR, 2.2K, 1/4W, 5% (0011). . . . .	1	
-55	R52	CB1525	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	RESISTOR, 1.5K, 1/4W, 5% (0011). . . . .	1	
-56	R53, R73	CB3025	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	RESISTOR, 3K, 1/4W, 5% (0011). . . . .	2	
-57	R62	CB2715	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	RESISTOR, 270 $\Omega$ , 1/4W, 5% (0011). . . . .	1	
-58	R63	CB2215	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	RESISTOR, 220 $\Omega$ , 1/4W, 5% (0011). . . . .	1	
-58a	R93	CB4715	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	RESISTOR, 470 $\Omega$ , 1/4W, 5% (0011). . . . .	1	
-59	R72, R74 thru R76	CB3325	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	RESISTOR, 3.3K, 1/4W, 5% (0011). . . . .	4	

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Fig. & Index No.	Reference Designator	MFR Part No.										DESCRIPTION	Qty. Per Assy.	Qty. Per Unit		
			1	2	3	4	5	6	7	8	9					
6-12 -60	Continued U57	9004	.	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Dual 4-Input Gates(0013).	1	
		◇8819	.	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Dual 4-Input Gates(0014)		
-61	U58, U76	9002	.	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2-Input Gates(0013).	2	
		◇8889	.	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2-Input Gates(0014)		
-62	U59, U75	9016	.	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Hex Inverter (0013).	2	
		◇8H90	.	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Hex Inverter (0014)		
-63	U60, U73, U77	7474	.	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, D-Flop(0038).	3	
		◇8828	.	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, D-Flop(0014)		
-64	U61	9008	.	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Single 4-Wide AND-OR-INVERT Gates (0013).	1	
		◇8848	.	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Single 4-Wide AND-OR-INVERT Gates (0014)		

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-12	. Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-65	U72	USN7439	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	INTEGRATED CIRCUIT PACKAGE, Quad 2-Input NAND(OC) Gates(0015). . .	1	
-66	U74	8281	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	INTEGRATED CIRCUIT PACKAGE, 4 Stage Binary Counter (0014). . . . .	1	
-67	U90	NE510A	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	INTEGRATED CIRCUIT PACKAGE, Dual A mplifier (0014). . . . .	1	
-68	U91, U92	8280	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	INTEGRATED CIRCUIT PACKAGE, Decode Counter (0014). . . . .	2	
-69	Y1	No Number	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CRYSTAL, 16KHz(0037). .	1	
	5A3	007-000018	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	*OPTIONAL SUBASSEMBLY PAPER TAPE READER CONTROL, Model No. 4011(0010)	1	
-70	C28, C42, C52, C53, C64, C67, C69	5635-000-Y5FO-503M	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CAPACITOR, .05 $\mu$ fd, 12VDC (0019). . . . .	7	
-71	C54	CK103	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CAPACITOR, .01 $\mu$ fd, 50VDC (0032). . . . .	1	
-72	C66	CD15FD471J	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CAPACITOR, 470pf, 500VDC (0036). . . . .	1	
-73	C68	DR22A20KI	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	CAPACITOR, .22 $\mu$ fd, 20VDC (0047). . . . .	1	
-74	CR7	CD81148	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	DIODE(0034). . . . .	1	
-75	R54 thru R61, R69, R71	CB3025	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	RESISTOR, 3K, 1/4W, 5% (0011). . . . .	10	
-76	R67	CB4715	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	RESISTOR, 470 $\Omega$ , 1/4W, 5% (0011). . . . .	1	

\*See Table 6-3 and Figure 6-6 (Note 1) for (Device/Computer) Connector Information

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-12	. Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-77	R68	CB2215	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 220Ω, 1/4W, 5% (0011). . . . .	1	
-78	R70	CB7525	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 7.5K, 1/4W, 5% (0011). . . . .	1	
-79	U51, U88	9016	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, Hex Inverter (0013). . . . .	2	
		◇8H90	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, Hex Inverter (0014)		
-80	U52, U55, U56	USN7439	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, Quad 2 -Input NAND(OC) Gates(0015). .	3	
-81	U53, U54, U86	7474	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, D-Flop(0038)	3	
		◇8828	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, D-Flop(0014)		
-82	U68, U85, U89	9002	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, Quad 2-Input Gates(0013). . . . .	3	
		◇8889	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, Quad 2 -Input Gates(0014)		
-83	U69	9004	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, Dual 4-Input Gates(0013). . . . .	1	
		◇8819	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED CIRCUIT PACKAGE, Dual 4-Input Gates(0014)		

Revision C

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Fig. & Index No.	Reference Designator	MFR Part No.										Qty. Per Assy.	Qty. Per Unit			
			1	2	3	4	5	6	7	8	9			DESCRIPTION		
6-12 -84	. Continued U70, U71	9300	.	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, 4-Bit Shift Register(0013).	2	
		◇9300	.	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, 4-Bit Shift Register(0049)		
-85	U87	9601	.	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, DC Triggerable One Shot(0013).	1	
	5A4	007-000021	.	.	.	.	.	.	.	.	.	.	.	*OPTIONAL SUBASSEMBLY PAPER TAPE PUNCH CONTROL, Model No. 4012(0010)	1	
-86	C37, C48, C49, C61, C62, C71, C75, C76	5635-000-Y5FO-503M	.	.	.	.	.	.	.	.	.	.	.	CAPACITOR, .05μfd, 12VDC (0019).	8	
-87	C60, C72	CK103	.	.	.	.	.	.	.	.	.	.	.	CAPACITOR, .01μfd, 50VDC (0032).	2	
-88	C73, C74	D1R0A35K1	.	.	.	.	.	.	.	.	.	.	.	CAPACITOR, 1μfd, 35VDC (0047).	2	
-89	Q13	2N4125	.	.	.	.	.	.	.	.	.	.	.	TRANSISTOR(0026).	1	
-90	R64, R77	CB1015	.	.	.	.	.	.	.	.	.	.	.	RESISTOR, 100Ω, 1/4W, 5% (0011).	2	
-91	R78	CB7515	.	.	.	.	.	.	.	.	.	.	.	RESISTOR, 750Ω, 1/4W, 5% (0011).	1	
-92	R79	CB2725	.	.	.	.	.	.	.	.	.	.	.	RESISTOR, 2.7K, 1/4W, 5% (0011).	1	

\*See Table 6-3 and Figure 6-6 (Note 1) for (Device/Computer) Connector Information



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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-12	Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-93	R80	CB1515	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 150Ω, 1/4W, 5% (0011). . . . .	1	
-94	R81, R82	CB1815	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 180Ω, 1/4W, 5% (0011). . . . .	2	
-95	R83	CB1535	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 15K, 1/4W, 5% (0011). . . . .	1	
-96	R84	CB1525	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 1.5K, 1/4W, 5% (0011). . . . .	1	
-97	R85, R86	CB3315	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 330Ω, 1/4W, 5% (0011). . . . .	2	
-98	R92	CB3025	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	RESISTOR, 3K, 1/4W, 5% (0011). . . . .	1	
-99	U62, U63	7474	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED C IRCUIT PACKAGE, D-Flop(0038). . . . .	2	
		◇8828	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED C IRCUIT PACKAGE, D-Flop(0014)		
-100	U64, U78, U81, U83	USN7439	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED C IRCUIT PACKAGE, Quad 2 -Input NAND(OC) Gates(0015). . . . .	4	
-101	U65, U96	9016	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED C IRCUIT PACKAGE, Hex Inverter (0013). . . . .	2	
		◇8H90	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	INTEGRATED C IRCUIT PACKAGE, Hex Inverter(0014)		

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Fig. & Index No.	Reference Designator	MFR Part No.										Qty. Per Assy.	Qty. Per Unit		
			1	2	3	4	5	6	7	8	9			DESCRIPTION	
6-12 -102	Continued U66, U79	9002	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2 -Input Gates(0013).	2	
		◇8889	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Quad 2 -Input Gates(0014)		
-103	U67	9004	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Dual 4 -Input Gates(0013).	1	
		◇8819	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Dual 4 -Input Gates(0014)		
-104	U80, U82	9300	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, 4 -Bit Shift Register(0013).	2	
		◇9300	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, 4 -Bit Shift Register(0049)		
-105	U93	9006	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Dual 4 -Input AND-OR -INVERT Gates (0013).	1	
-106	U94	9601	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, DC T riggerable One Shot(0013).	1	
-107	U95	NE510A	.	.	.	.	.	.	.	.	.	.	INTEGRATED CIRCUIT PACKAGE, Dual Amplifier (0014).	1	

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Fig. & Index No.	Reference Designator	MFR Part No.										Qty. Per Assy.	Qty. Per Unit		
			1	2	3	4	5	6	7	8	9			DESCRIPTION	
6-12	. Continued 5A5	007-000023	.	.	.	.	.	.	.	.	.	.	.		
			.	.	.	.	.	.	.	.	.	.	.	1	
			.	.	.	.	.	.	.	.	.	.	.	1	
-108	C77, C78	D47C20K1	.	.	.	.	.	.	.	.	.	.	.	2	
-109	Q14, Q15	2N4123	.	.	.	.	.	.	.	.	.	.	.	2	
-110	R87	CB2245	.	.	.	.	.	.	.	.	.	.	.	1	
-111	R88, R90	CB3335	.	.	.	.	.	.	.	.	.	.	.	2	
-112	R89	CB6835	.	.	.	.	.	.	.	.	.	.	.	1	
-113	U97, U98	9601	.	.	.	.	.	.	.	.	.	.	.	1	
	5A6	007-000097	.	.	.	.	.	.	.	.	.	.	.	1	
-114	C16	5635-000-Y5FO-503M	.	.	.	.	.	.	.	.	.	.	.	1	
-115	Q8	2N4125	.	.	.	.	.	.	.	.	.	.	.	1	

\*See Table 6-3 and Figure 6-6 (Note 1) for (Device/Computer) Connector Information

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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-12	Continued													
-116	R28	CB1025	.	.	.	.	.	.	.	.	.	RESISTOR, 1K, 1/4W, 5%(0011)	1	
-117	R29	CB1115	.	.	.	.	.	.	.	.	.	RESISTOR, 110Ω, 1/4W, 5% (0011).	1	
-118	R44	CB7515	.	.	.	.	.	.	.	.	.	RESISTOR, 750Ω, 1/4W, 5% (0011).	1	
-119	R45	CB1525	.	.	.	.	.	.	.	.	.	RESISTOR, 1.5K, 1/4W, 5% (0011).	1	
	5A7	007-000098	.	.	.	.	.	.	.	.	.	OPTIONAL SUBASSEMBLY HIGH-SPEED DATA SET INTERFACE Model No. 4 029(0010).	1	
-120	C3	CD15FC821J	.	.	.	.	.	.	.	.	.	CAPACITOR, 820pf, 300VDC (0036).	1	
-121	C11, C12	CD15FD101J	.	.	.	.	.	.	.	.	.	CAPACITOR, 100pf, 500VDC (0036).	2	
-122	CR1 thru CR4	CD81148	.	.	.	.	.	.	.	.	.	DIODE(0034).	4	
-123	Q1, Q2	2N4125	.	.	.	.	.	.	.	.	.	TRANSISTOR(0026).	2	
-124	Q3 thru Q6	2N4123	.	.	.	.	.	.	.	.	.	TRANSISTOR(0026).	4	
-125	R1, R3, R41, R43	CB1025	.	.	.	.	.	.	.	.	.	RESISTOR, 1K, 1/4W, 5%(0011)	4	
-126	R2, R4	CB1015	.	.	.	.	.	.	.	.	.	RESISTOR, 100Ω, 1/4W, 5% (0011).	2	
-127	R6, R8	CB7515	.	.	.	.	.	.	.	.	.	RESISTOR, 750Ω, 1/4W, 5% (0011).	2	

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Fig. & Index No.	Reference Designator	MFR Part No.										Qty. Per Assy.	Qty. Per Unit
			1	2	3	4	5	6	7	8	9		
6-12	. Continued	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-128	R7, R9	CB1525	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	2	
-129	R10, R14, R15, R17, R42	CB3025	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	5	
-130	R11, R12, R13, R16	CB4725	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	4	
-131	U5	USN7439	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1	
-132	U6	7474	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1	
		◇8828	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-133	U7	9002	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1	
		◇8889	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		
-134	U8	9016	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1	
		◇8H90	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .		

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Fig. & Index No.	Reference Designator	MFR Part No.										Qty. Per Assy.	Qty. Per Unit		
			1	2	3	4	5	6	7	8	9			DESCRIPTION	
6-12 -135	.Continued U9	9003	.	.	.	.	.	.	.	.	.	.	.	1	
		◇8879	.	.	.	.	.	.	.	.	.	.	.		
	5A8	007-000096	.	.	.	.	.	.	.	.	.	.	.	1	
-136	C65	D1R0A35K1	.	.	.	.	.	.	.	.	.	.	.	1	
-137	R65	CB3025	.	.	.	.	.	.	.	.	.	.	.	1	
-138	R66	CB4725	.	.	.	.	.	.	.	.	.	.	.	1	
-139	R91	3005P-1-203	.	.	.	.	.	.	.	.	.	.	.	1	
-140	U84	9601	.	.	.	.	.	.	.	.	.	.	.	1	

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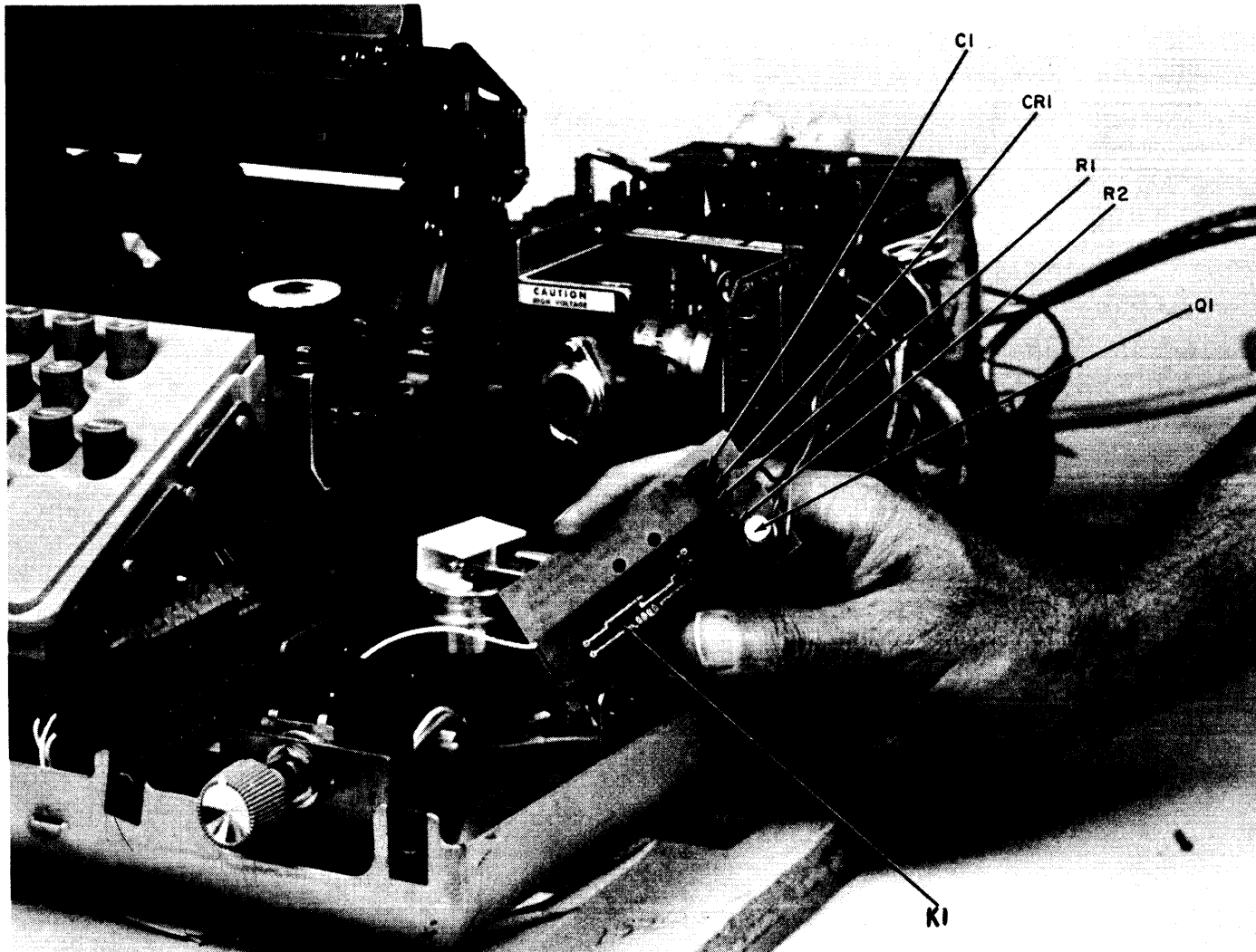


Figure 6-13. Teletype Modification Kit, Optional Model 4009



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Fig. & Index No.	Reference Designator	MFR Part No.	1	2	3	4	5	6	7	8	9	DESCRIPTION	Qty. Per Assy.	Qty. Per Unit
6-13	None	118-000021	.	.	.	.	.	.	.	.	.	TELETYPE MODIFICATION KIT, Optional Model 4009. See Teletype Manual under separate cover for NHA. This kit is installed within the teletype to allow the Teletype Reader to be remotely controlled during on-line operation. Model 4009 is used with Optional Assembly Model 4010. . . . .		i
-1	C1	CD7FA47 1J	.	.	.	.	.	.	.	.	.	CAPACITOR, 470pf, 500VDC (0036). . . . .	1	
-2	CR1	CD81148	.	.	.	.	.	.	.	.	.	DIODE(0034). . . . .	1	
-3	K1	BRSR1-901	.	.	.	.	.	.	.	.	.	RELAY(0040). . . . .	1	
-4	Q1	40526	.	.	.	.	.	.	.	.	.	TRIODE THYRISTOR(0039). . . . .	1	
-5	R1	CB1005	.	.	.	.	.	.	.	.	.	RESISTOR, 10Ω, 1/4W, 5%(0011)	1	
-6	R2	CB1015	.	.	.	.	.	.	.	.	.	RESISTOR, 100Ω, 1/4W, 5%(0011)	1	