

DIAGRAMS AND CIRCUIT BOARD ILLUSTRATIONS

Symbols

Graphic symbols and class designation letters are based on ANSI Standard Y32.2-1975.

Logic symbology is based on ANSI Y32.14-1973 in terms of positive logic. Logic symbols depict the logic function performed and may differ from the manufacturer's data.

The overline on a signal name indicates that the signal performs its intended function when it is in the low state.

Abbreviations are based on ANSI Y1.1-1972.

Other ANSI standards that are used in the preparation of diagrams by Tektronix, Inc. are:

- Y14.15, 1966 Drafting Practices.
- Y14.2, 1973 Line Conventions and Lettering.
- Y10.5, 1968 Letter Symbols for Quantities Used in Electrical Science and Electrical Engineering.

American National Standard Institute
1430 Broadway
New York, New York 10018

Component Values

Electrical components shown on the diagrams are in the following units unless noted otherwise:

Capacitors = Values one or greater are in picofarads (pF).
Values less than one are in microfarads (μ F).

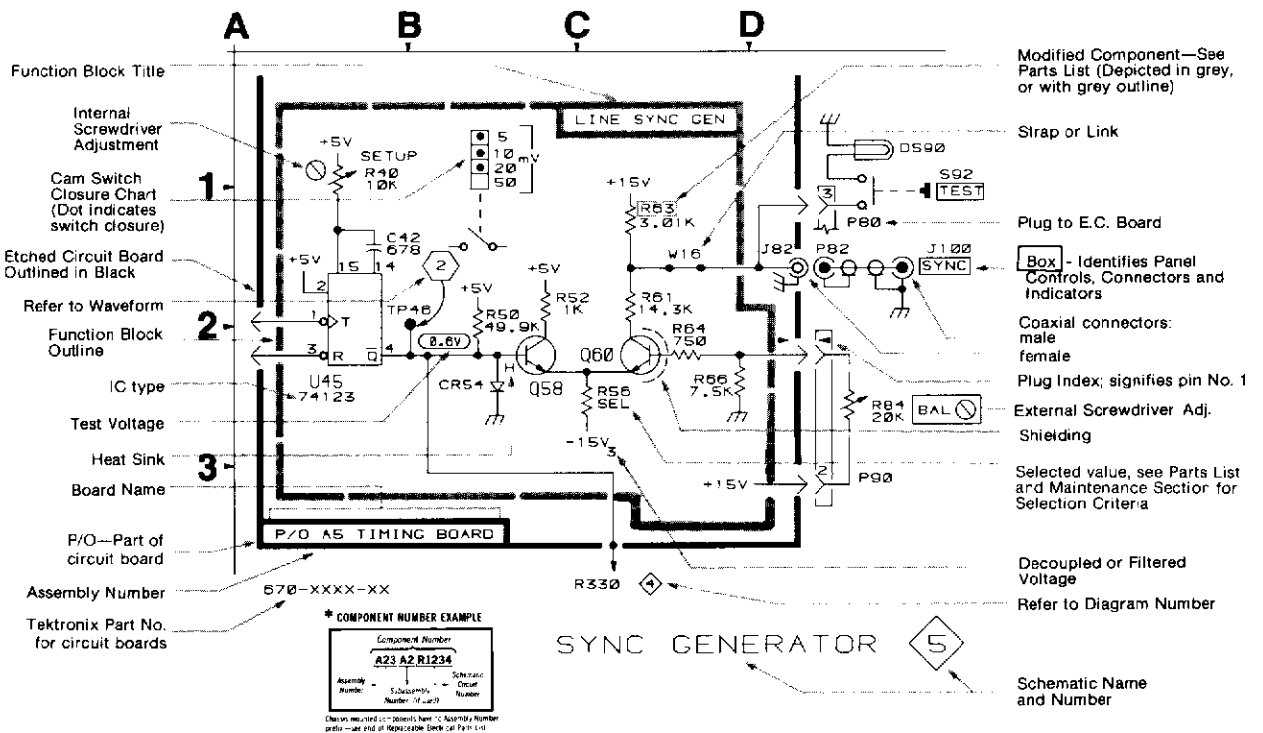
Resistors = Ohms (Ω).

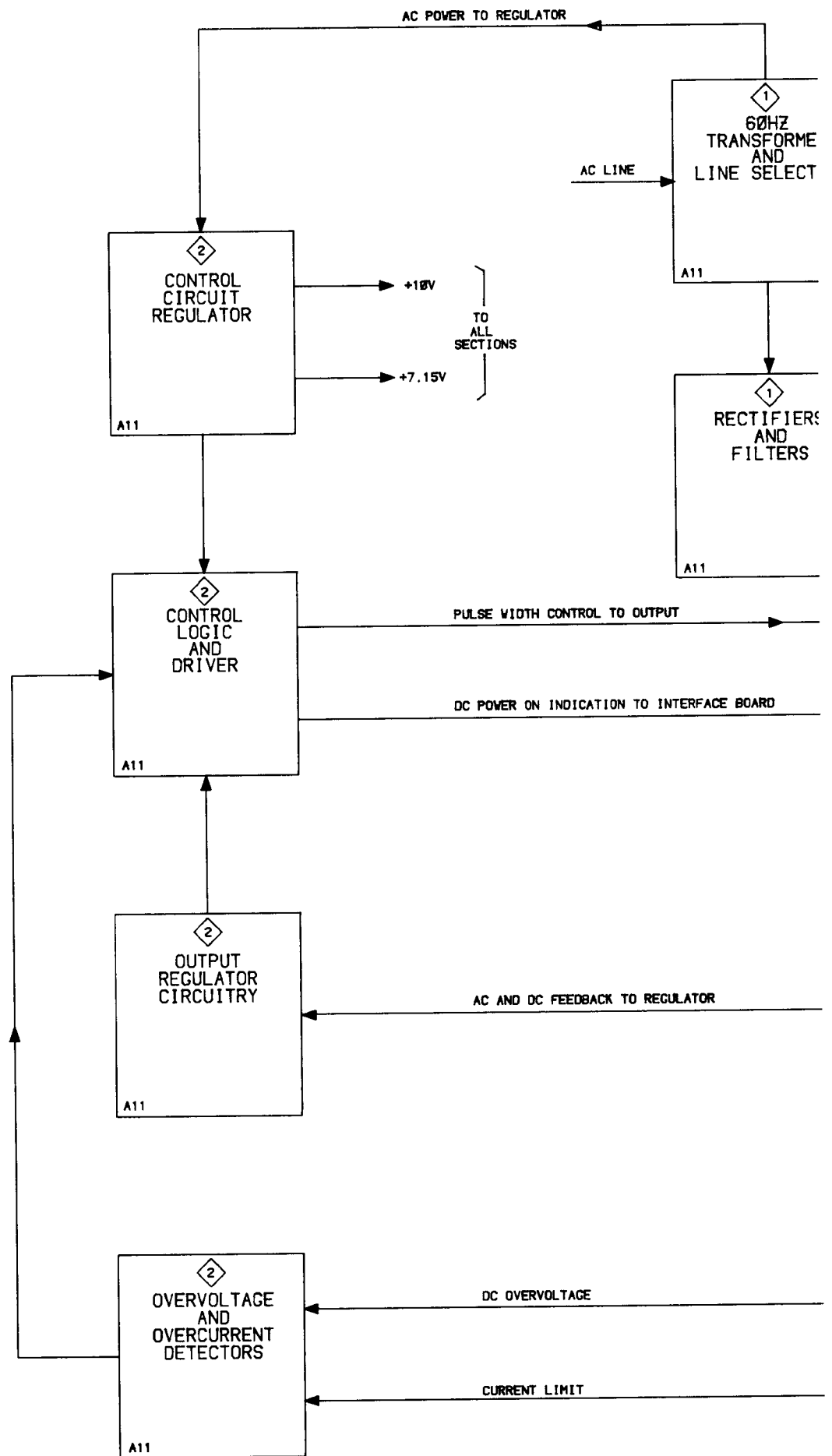
The information and special symbols below may appear in this manual.

Assembly Numbers and Grid Coordinates

Each assembly in the instrument is assigned an assembly number (e.g., A20). The assembly number appears on the circuit board outline on the diagram, in the title for the circuit board component location illustration, and in the lookup table for the schematic diagram and corresponding component locator illustration. The Replaceable Electrical Parts list is arranged by assemblies in numerical sequence; the components are listed by component number *(see following illustration for constructing a component number).

The schematic diagram and circuit board component location illustration have grids. A lookup table with the grid coordinates is provided for ease of locating the component. Only the components illustrated on the facing diagram are listed in the lookup table. When more than one schematic diagram is used to illustrate the circuitry on a circuit board, the circuit board illustration may only appear opposite the first diagram on which it was illustrated; the lookup table will list the diagram number of other diagrams that the circuitry of the circuit board appears on.





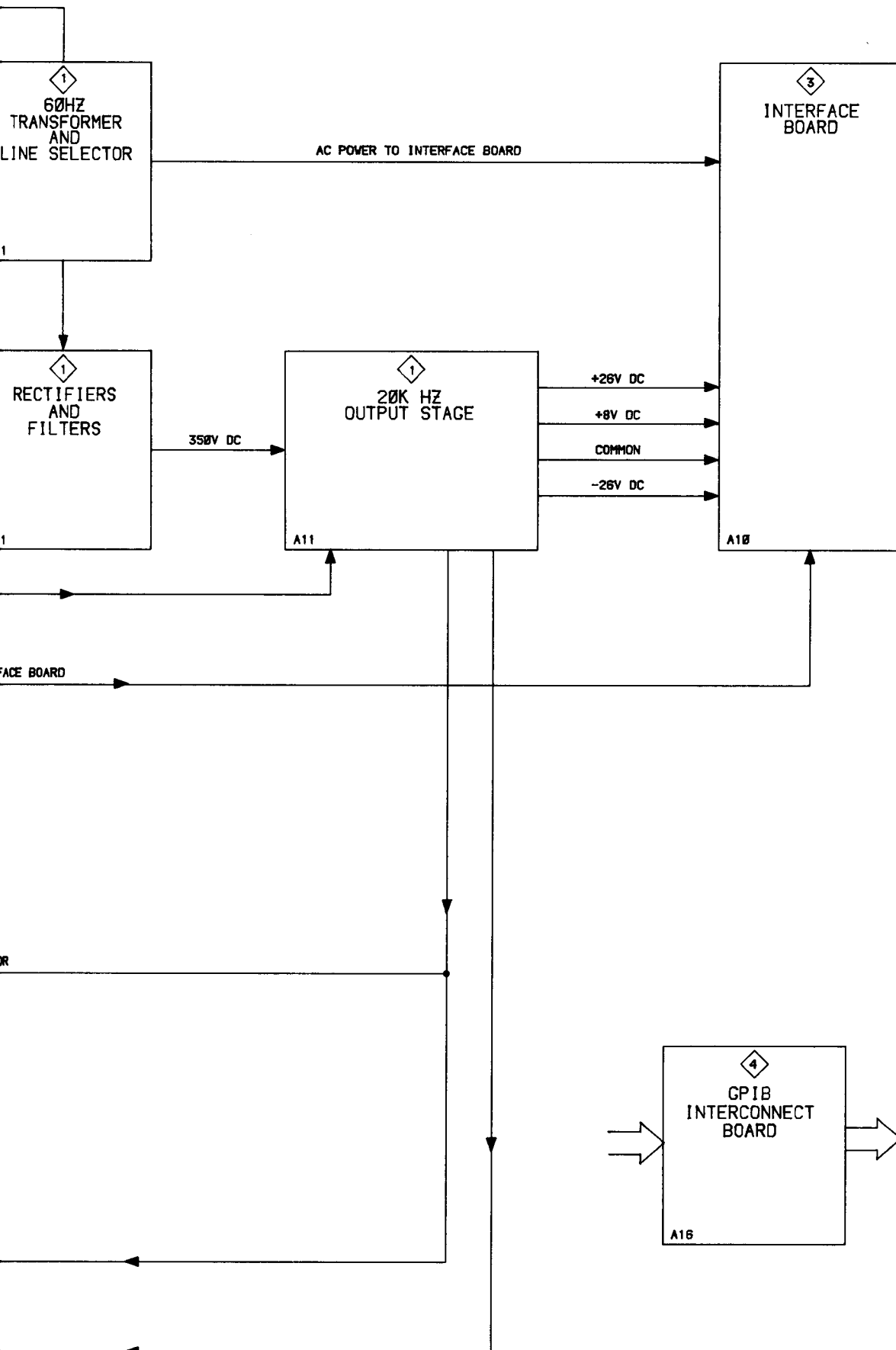
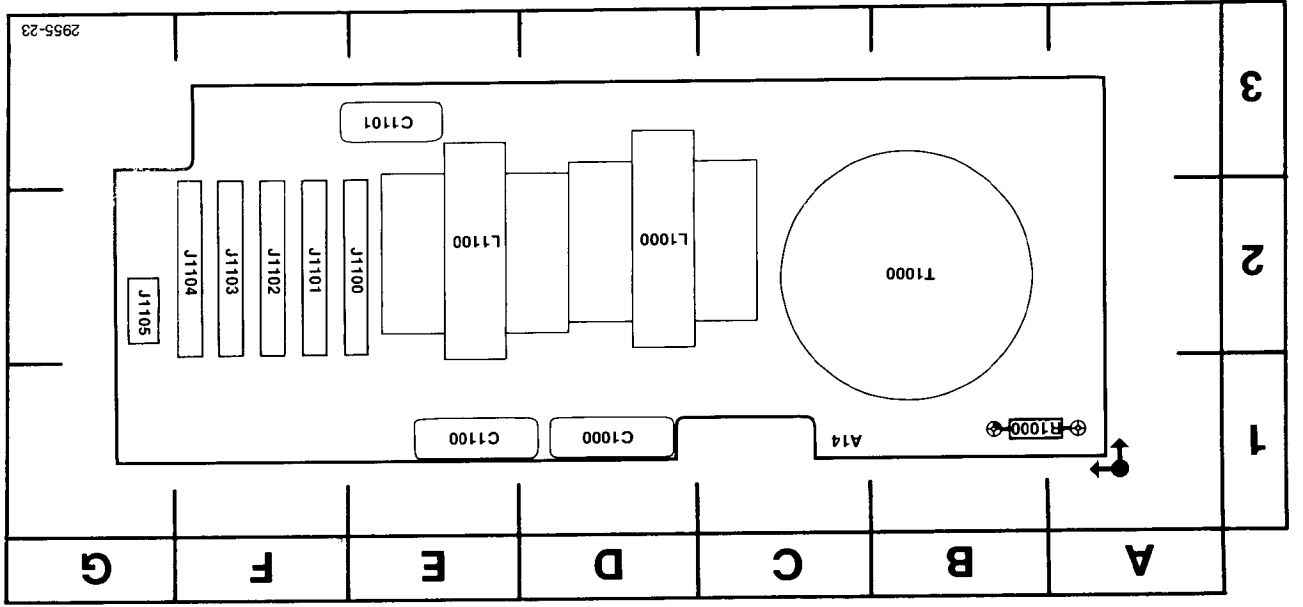


Fig. 8-3. Line Filter Board.



ASSY A14

2955-23

PARTS LOCATION GRID

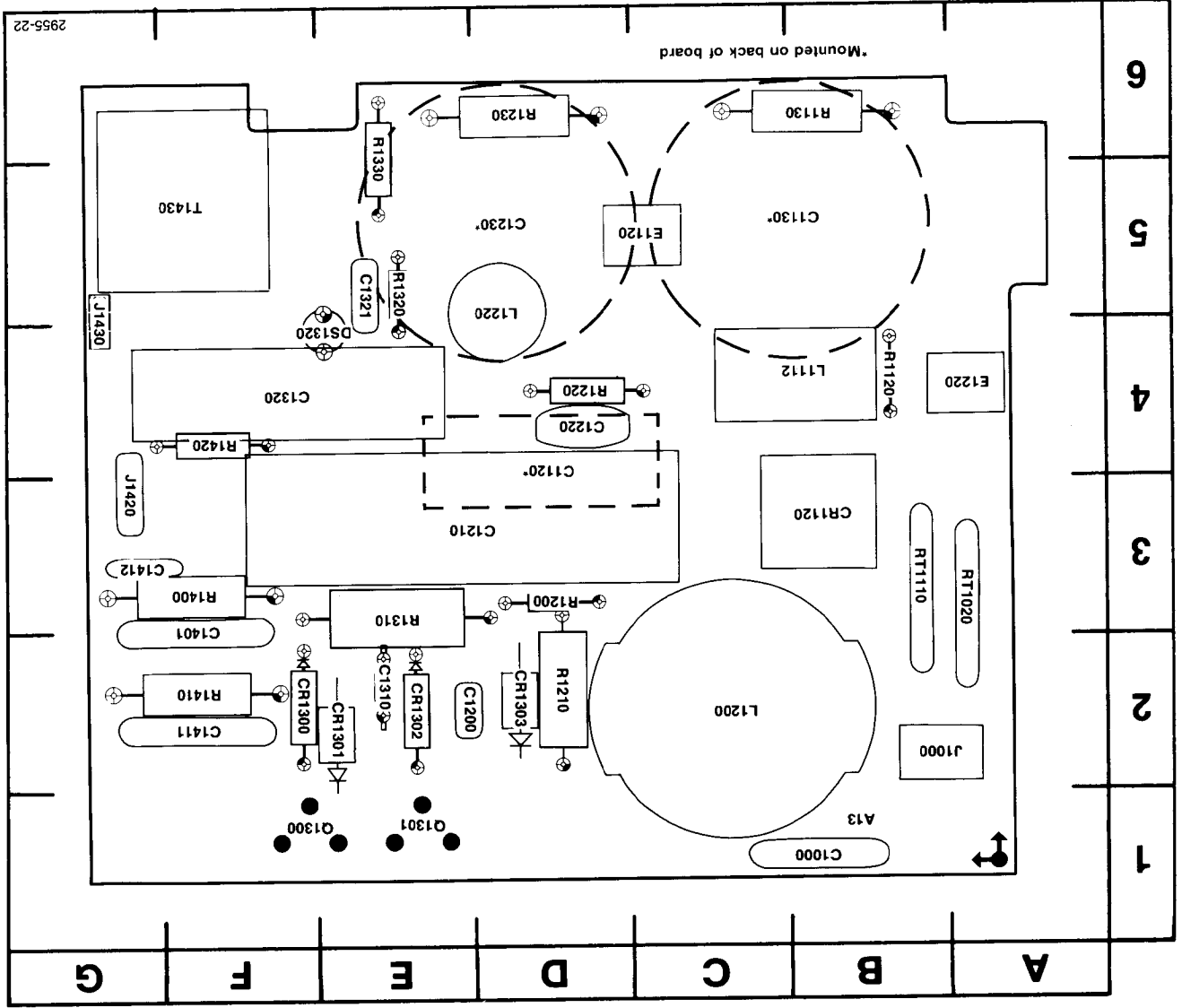
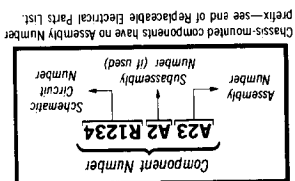


Fig-8-2 Dc Power Supply Primary Board.

ASSEMBLY A13

2955-22

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Static Sensitive Devices See Maintenance Section

Fig. 8-1. Dc Power Supply Secondary Board.

ASSY A11

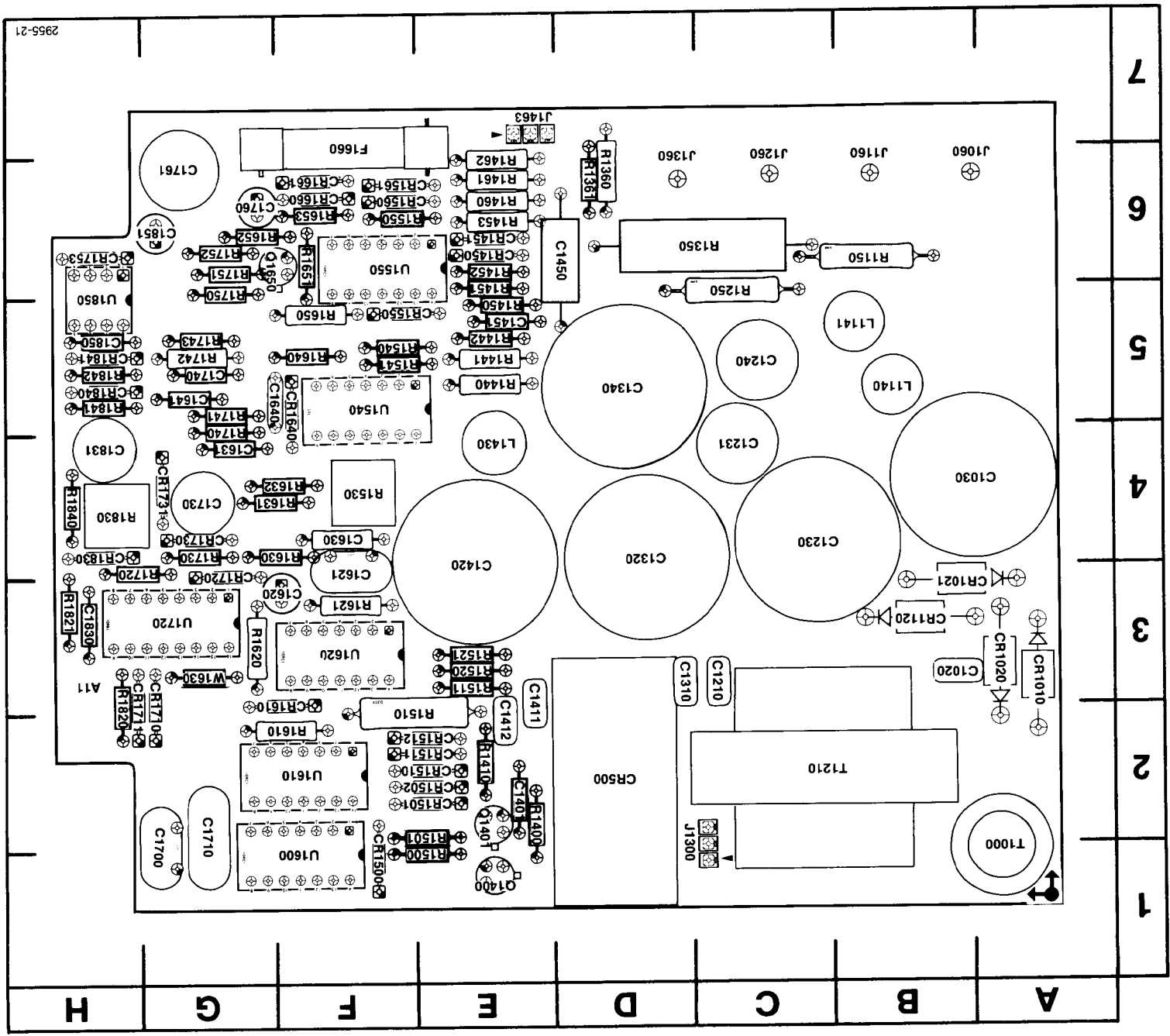
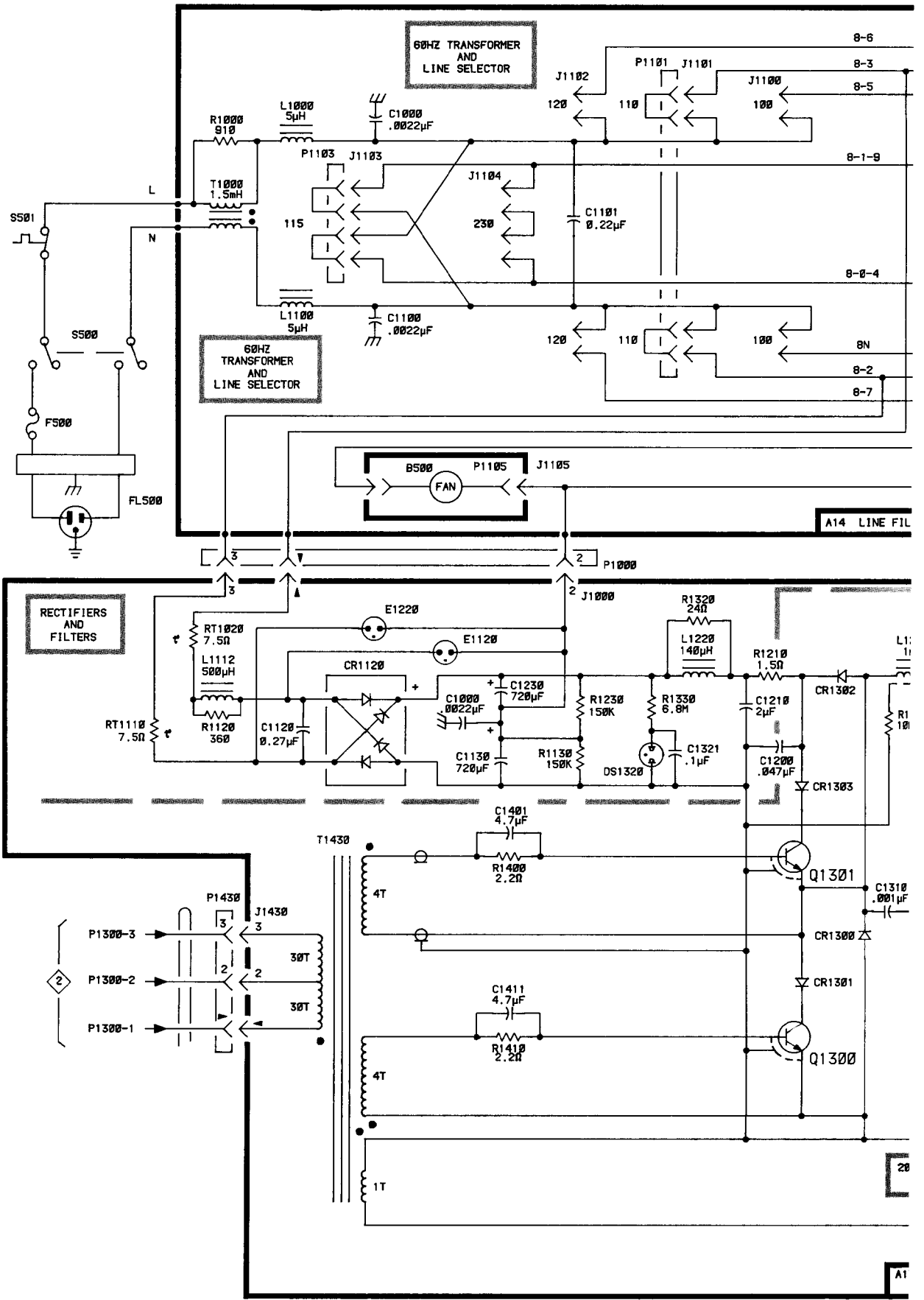


Table 8-1 COMPONENT REFERENCE CHART

P/O A11 ASSY			Dc POWER SUPPLY 1		
CIRCUIT NUMBER	SCHEMATIC LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEMATIC LOCATION	BOARD LOCATION
C1030	L5	A4	J1060	M5	A6
C1230	L7	C4	J1160	M8	B6
C1231	M5	C4	J1260	M6	C6
C1240	M7	C5	J1360	M6	D6
C1320	L6	D4	L1140	L5	B5
C1340	M6	D5	L1141	M8	B5
C1420	M6	E4	L1430	M6	E4
CR1010	L5	A3	P1060	M5	A6
CR1020	K5	A3	P1160	M8	B6
CR1021	K8	B3	P1260	M6	C6
CR1120	K8	B3	P1360	M6	D6
CR1502	L8	E2	R1150	M5	B6
CR1510	L8	E2	R1250	M8	C5
CR1511	L8	E2	R1350	M6	C6
CR1512	L8	E2	T1000	K8	A1
CR500	L6	D2	T1210	K5	C2
P/O A11 ASSY also shown on 2					
A13 ASSY					
C1000	D5	B1	L1112	B5	B4
C1120*	C5	D4	L1200	H5	C2
C1130*	D6	B5	L1220	E5	D5
C1200	F5	E2	P1000	D4	B2
C1210	F5	E3	P1420	J5	G3
C1220	H5	D4	P1430	B7	G5
C1230*	D5	D5	Q1300	F7	F1
C1310	F6	E2	Q1301	F6	E1
C1320	H5	F4	R1120	B5	B4
C1321	E6	E5	R1130	D6	B6
C1401	D6	F3	R1200	F5	D3
C1411	D7	F2	R1210	F5	D2
C1412	H7	G3	R1220	H6	D4
CR1120	C5	B3	R1230	D5	D6
CR1300	F7	F2	R1310	H6	E3
CR1301	F7	E2	R1320	E5	E5
CR1302	F5	E2	R1330	E5	E6
CR1303	F6	D2	R1400	D6	F3
DS1320	E6	E4	R1410	D7	F2
E1120	D5	C5	R1420	H6	F4
E1220	C5	A4	RT1020	B5	A3
J1000	D4	B2	RT1100	B5	B3
J1420	H5	G3	T1430	C6	F5
J1430	B7	G5	E500	J5	CHASSIS
A14 ASSY					
C1000	C2	D1	P1101	E1	F2
C1100	C3	E1	P1103	C2	F2
C1101	D2	E3	P1105	D4	G2
J1100	F1	E2	R1000	B2	B1
J1101	E1	F2	T1000	B2	B2
J1102	D1	F2	B500	D4	CHASSIS
J1103	C2	F2	F500	A3	CHASSIS
J1104	D2	F2	FL500	B4	CHASSIS
J1105	D4	G2	S500	A3	CHASSIS
L1000	C2	D2	S501	A2	CHASSIS
L1100	C3	E2			

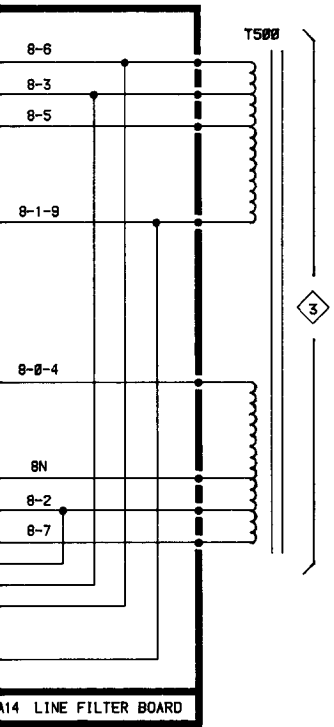
A | B | C | D | E | F

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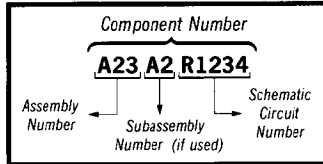
TM 5003

2955-30



⚡ Static Sensitive Devices
See Maintenance Section

COMPONENT NUMBER EXAMPLE



Chassis-mounted components have no Assembly Number prefix—see end of Replaceable Electrical Parts List.

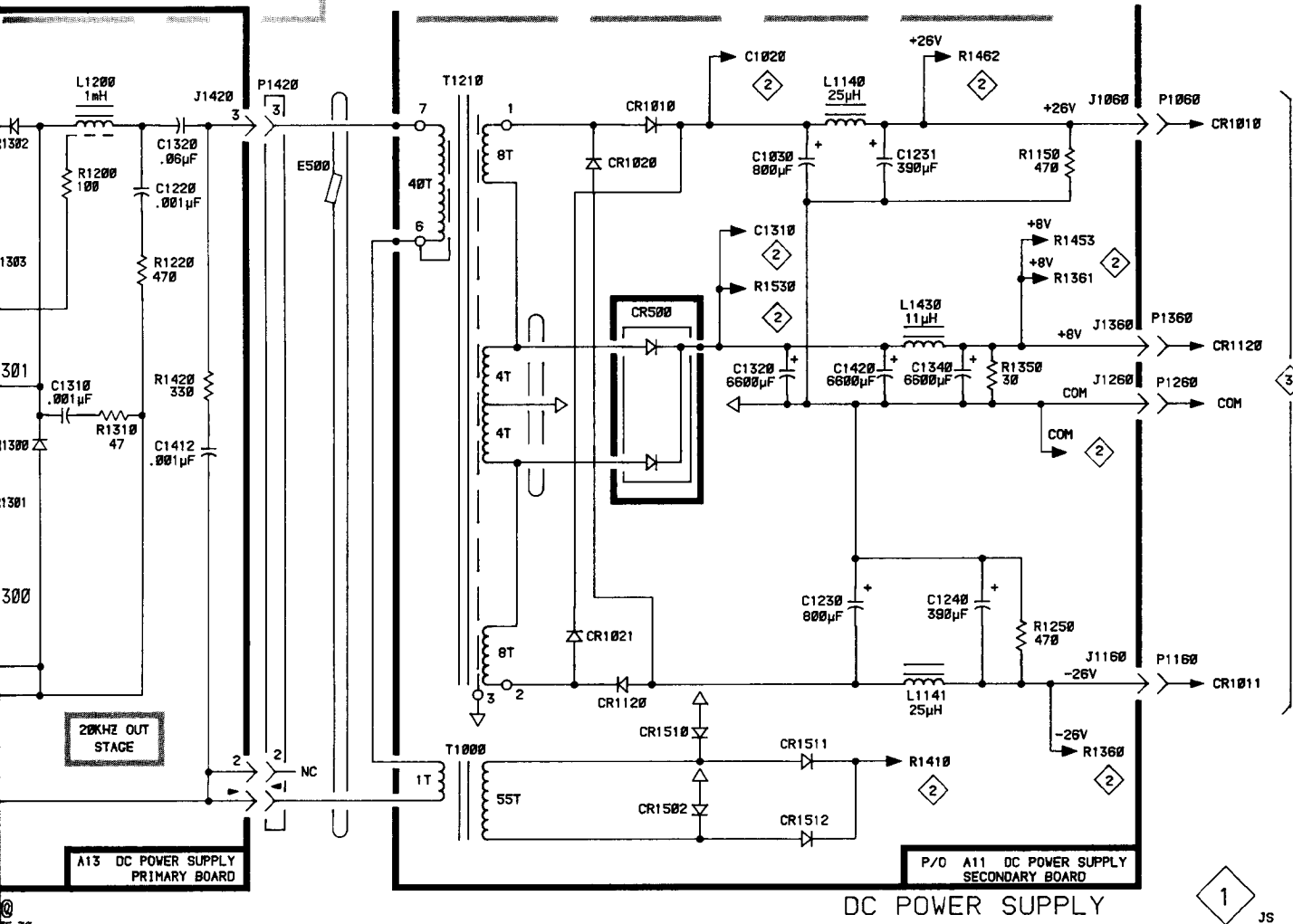


Table 8-2 COMPONENT REFERENCE CHART

P/O A11 ASSY			Dc POWER SUPPLY REGULATOR 2		
CIRCUIT NUMBER	SCHEMATIC LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEMATIC LOCATION	BOARD LOCATION
C1020	D8	B3	R1442	B8	E5
C1210	F8	C3	R1450	D7	E5
C1310	F8	D3	R1451	E4	E6
C1410	D7	E2	R1452	C6	E6
C1411	C6	E3	R1453	C4	E6
C1412	B6	E2	R1460	C4	E6
C1450	C8	D6	R1461	B4	E6
C1451	C8	E5	R1462	B4	E6
C1620	H4	F3	R1500	M1	E1
C1621	F7	F3	R1501	M3	E2
C1630	H6	F4	R1510	E5	E2
C1631	F6	G4	R1511	J1	E3
C1640	E7	G5	R1520	J1	E3
C1641	C8	G5	R1521	M2	E3
C1651	E2	F6	R1530	B8	F4
C1700	L5	G2	R1540	D8	F5
C1710	K5	G2	R1541	D5	F5
C1730	K6	G4	R1550	D3	F6
C1740	F2	G5	R1610	L4	F2
C1760	E2	G6	R1620	H7	G3
C1761	C1	G6	R1621	E7	F3
C1830	H5	H3	R1630	H7	F4
C1831	K6	H4	R1631	F8	F4
C1850	J2	H5	R1632	E3	F4
C1851	C2	G6	R1640	C6	F5
			R1650	H2	F5
			R1651	E2	F6
			R1652	B3	G6
			R1653	C3	F6
CR1450	C4	E6	R1720	H4	G3
CR1451	C4	E6	R1730	H6	G4
CR1500	M1	F1	R1740	F5	G5
CR1501	M3	E2	R1741	E5	G5
CR1550	F1	F5	R1742	H2	G5
CR1560	C1	F6	R1743	D2	G5
CR1561	C1	F6	R1750	D2	G5
CR1610	E6	F3	R1751	C2	G6
CR1640	D7	F5	R1752	C2	G6
CR1660	C3	F6	R1820	K6	H3
CR1661	D2	F6	R1821	K5	H3
CR1710	K5	G3	R1830	K6	H4
CR1711	K5	H3	R1840	H5	H4
CR1720	H7	G3	R1841	H5	H5
CR1730	H6	G4	R1842	H4	H5
CR1731	K6	G4			
CR1830	K5	H4	U1540A	E8	F5
CR1840	E3	H5	U1540B	F5	F5
CR1841	H3	H5	U1540C	F4	F5
			U1540D	F3	F5
F1660	B2	F7	U1550	F2	F6
			U1600A	M6	F1
J1300	M1	D2	U1600B	M4	F1
J1463	B1	E6	U1610A	L1	F2
J1463	K2	E6	U1610B	L3	F2
			U1620A	E7	F3
P1300	M1	D2	U1620B	F7	F3
P1463	K2	E6	U1620C	H7	F3
P1463	B1	E6	U1620D	J6	F3
			U1620E	L3	F3
Q1400	M1	E1	U1620F	L2	F3
Q1401	M3	E2	U1720A	J4	G3
Q1650	D2	G6	U1720B	L4	G3
			U1850	H3	H5
R1360	E3	D6	VR1753	C2	H6
R1361	J2	D6			
R1400	D6	E2	W1630	F7	G3
R1410	D6	E2			
R1440	B8	E5			
R1441	E3	E5			

P/O A11 ASSY also shown on 1

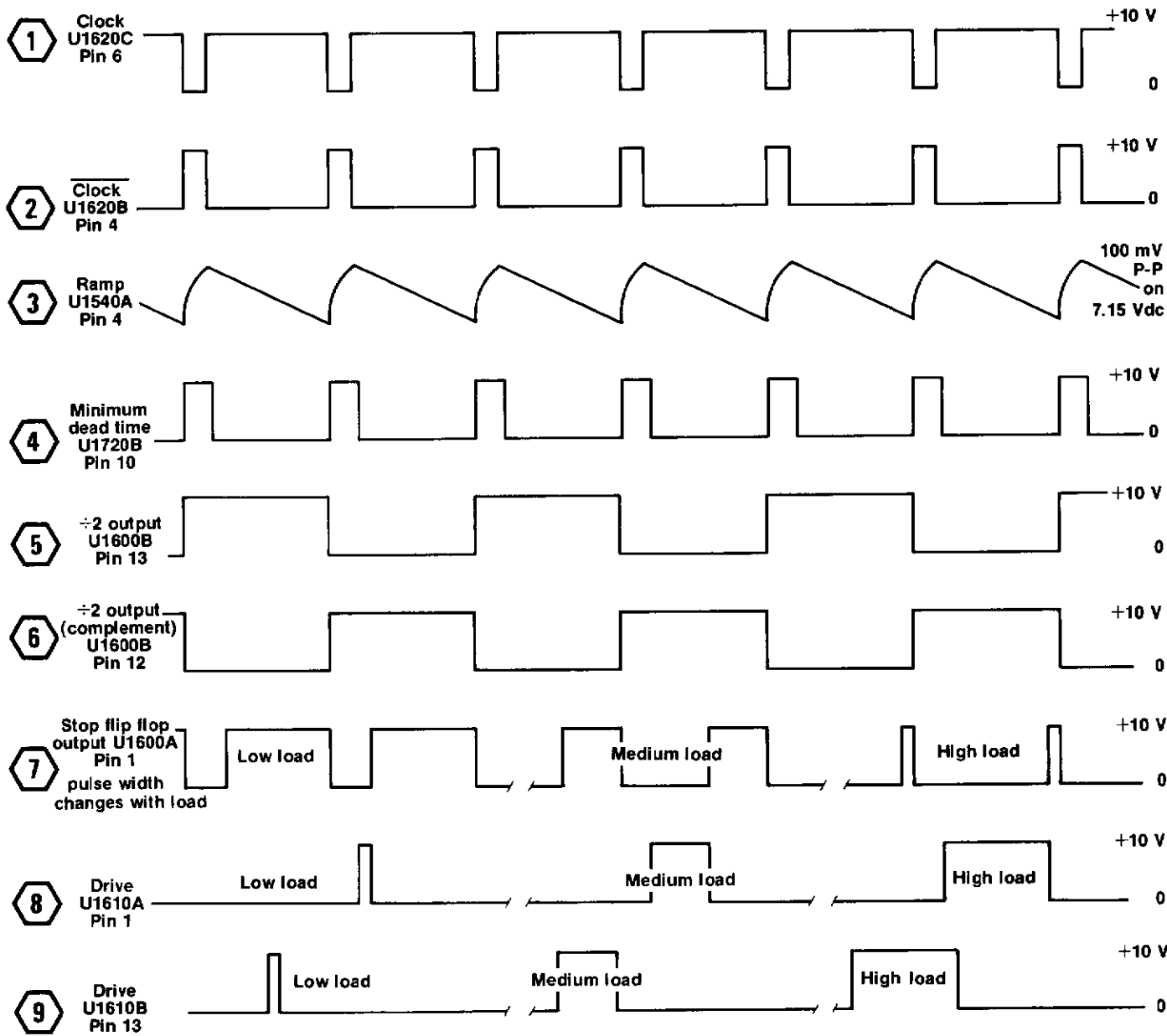
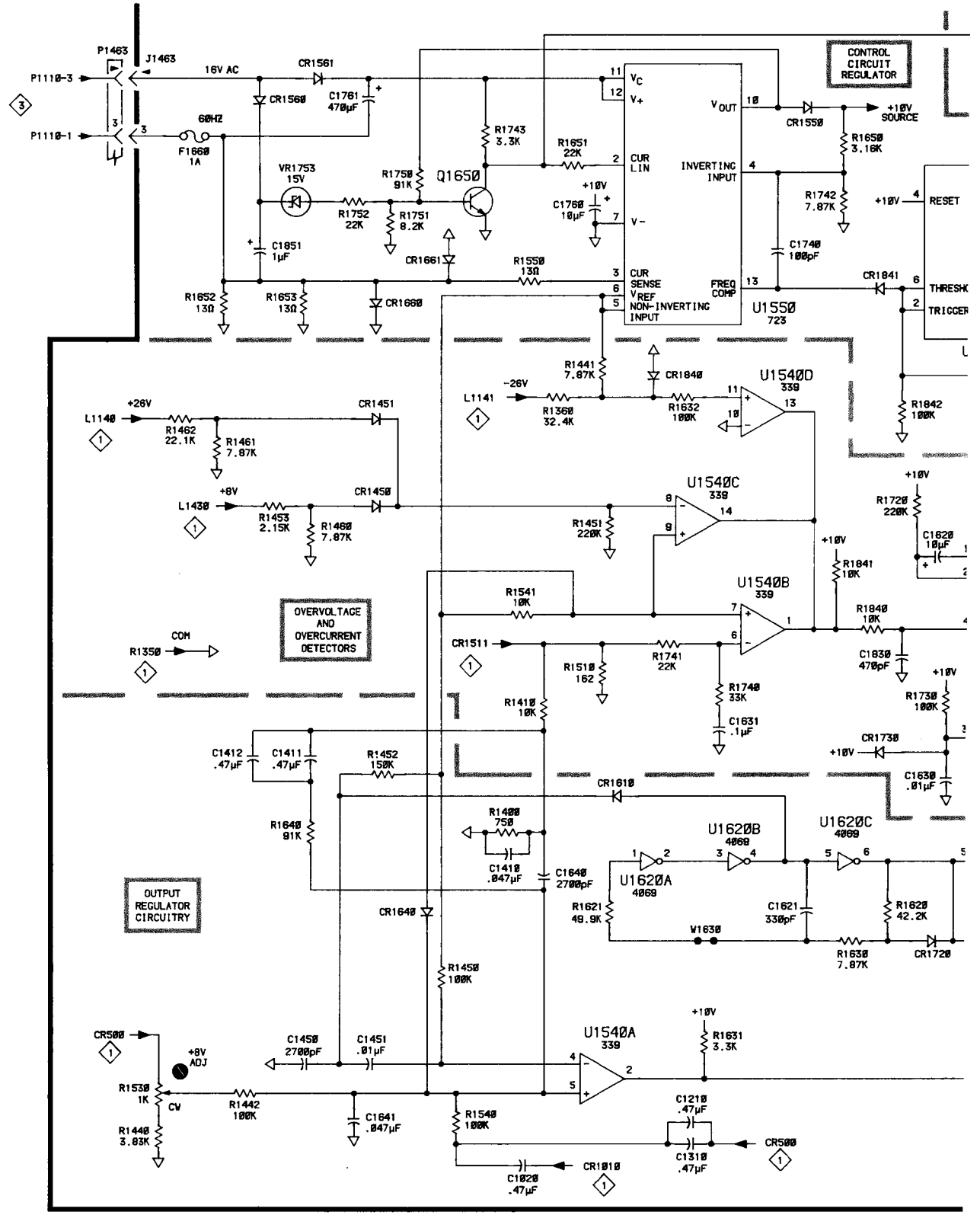


Fig. 8-4. Dc Power Supply Regulator Waveforms.

A | B | C | D | E | F | G | H

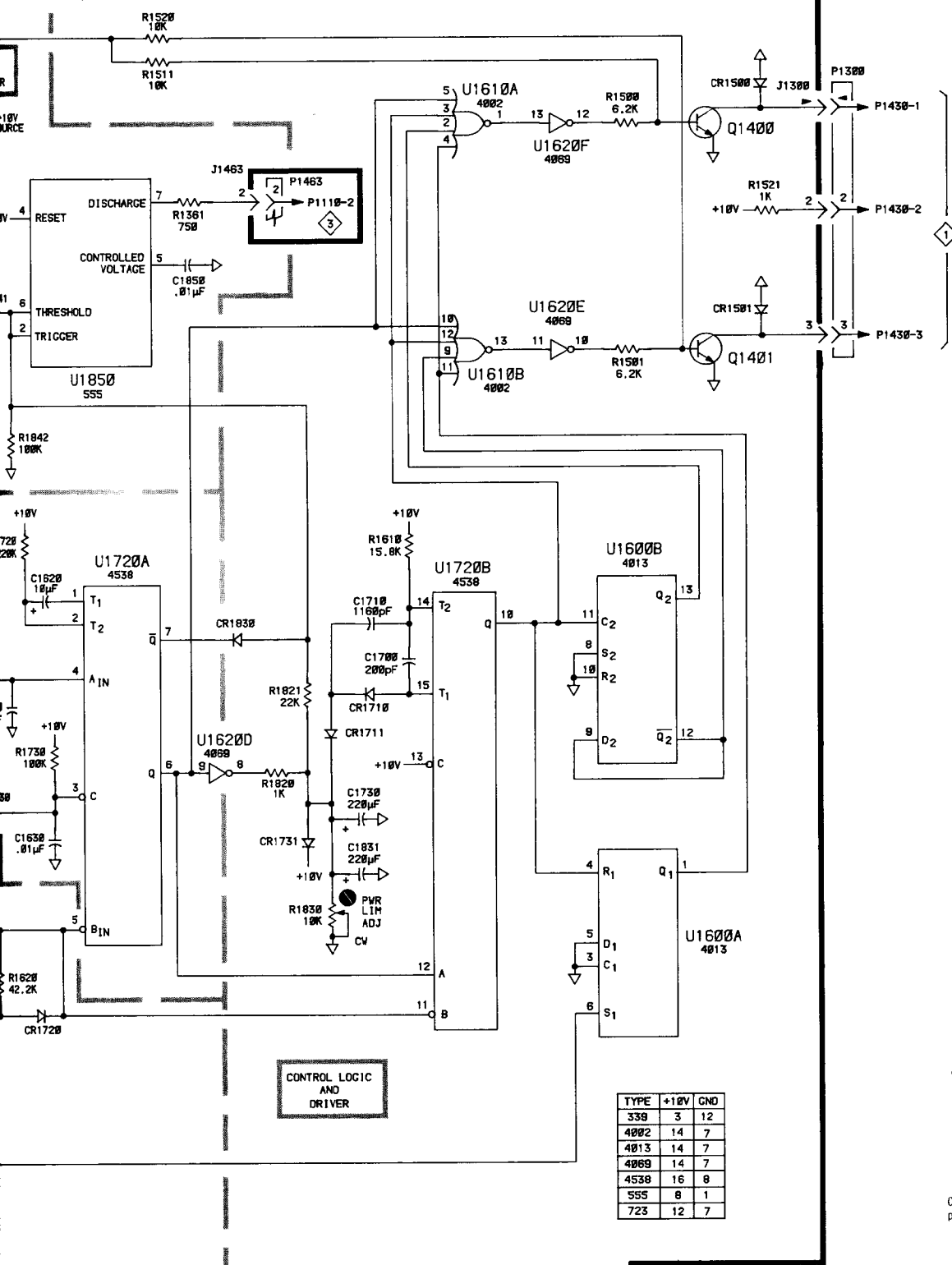
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TM 5003

2955-31

H | J | K | L | M



CONTROL LOGIC AND DRIVER

TYPE	+10V	GND
339	3	12
4002	14	7
4013	14	7
4069	14	7
4538	16	8
555	8	1
723	12	7

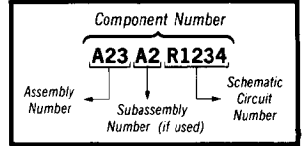
P/O A11 DC POWER SUPPLY SECONDARY BOARD

DC POWER SUPPLY REGULATOR

2 JS

Static Sensitive Devices
See Maintenance Section

COMPONENT NUMBER EXAMPLE



Chassis-mounted components have no Assembly Number prefix—see end of Replaceable Electrical Parts List.

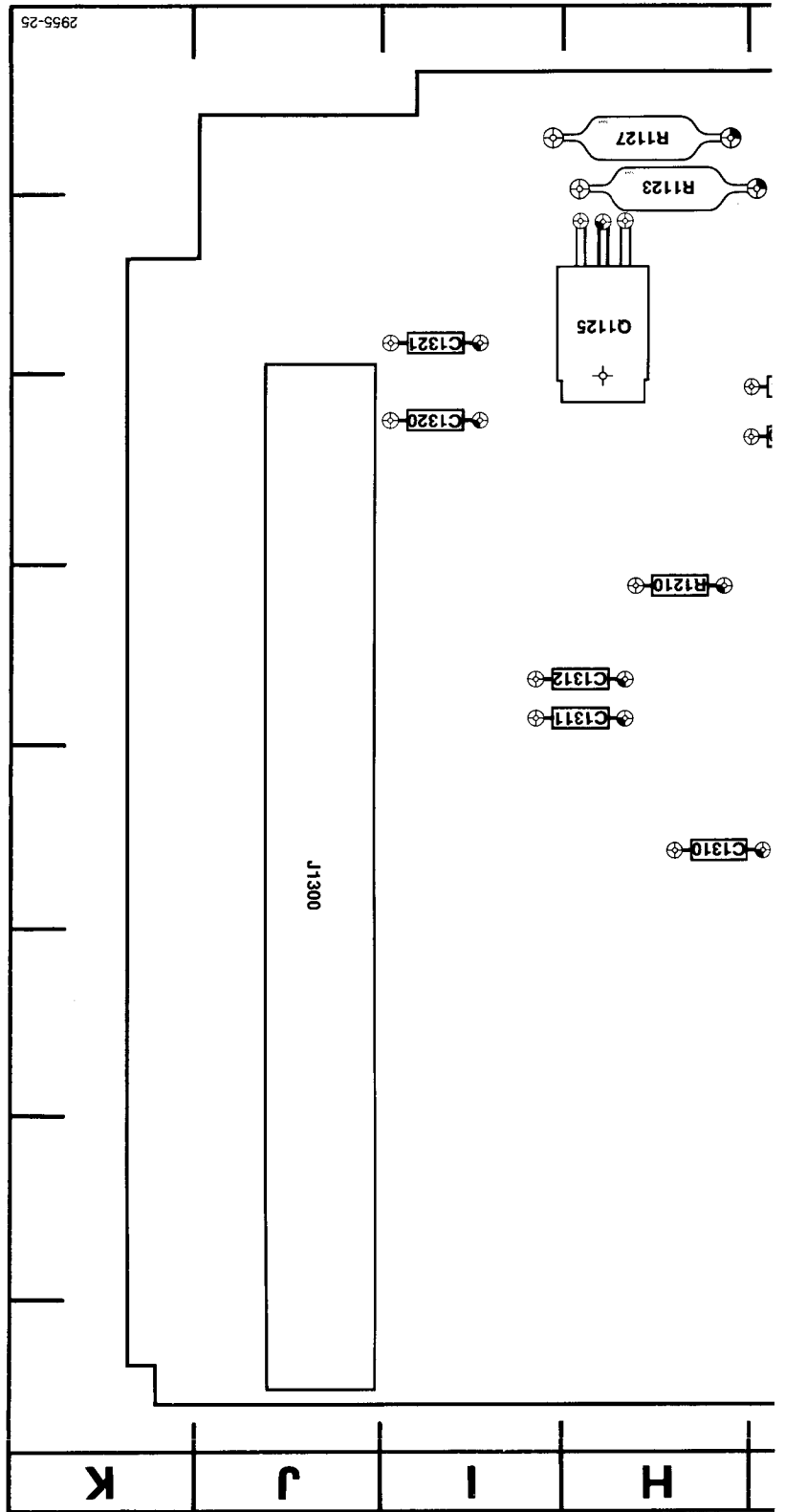
**Table 8-3
COMPONENT REFERENCE CHART**

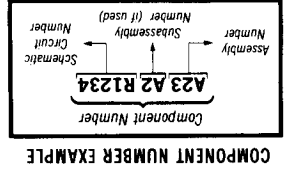
A10 ASSY			MAIN INTERFACE 3		
CIRCUIT NUMBER	SCHEMATIC LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEMATIC LOCATION	BOARD LOCATION
C1010	H4	C4	J1210	J8	B6
C1011	J4	C5	J1300	C1	J4
C1012	J5	C5	P1110	L6	F7
C1020	J7	C6	P1110	B7	F7
C1021	F8	C6	P1210	K8	B6
C1110	C6	F6	Q1125	K6	H7
C1210	E4	F4	R1123	K7	H8
C1211	F4	F4	R1126	K6	F7
C1212	F5	F5	R1127	K6	H8
C1213	C7	F6	R1210	J5	H5
C1220	F7	G6	E510	L5	CHASSIS
C1221	E8	G6	P500	C5	CHASSIS
C1310	C3	H4	P510	C6	CHASSIS
C1311	D4	H5	P520	E5	CHASSIS
C1312	D5	H5	P530	E6	CHASSIS
C1320	D7	I6	P540	H5	CHASSIS
C1321	C8	I7	P550	H6	CHASSIS
CR1010	L4	B5	Q500	B5	CHASSIS
CR1011	L5	B5	Q510	B6	CHASSIS
CR1120	L4	D6	Q520	D5	CHASSIS
J1000	H2	C4	Q530	D6	CHASSIS
J1110	L6	F7	Q540	F5	CHASSIS
J1110	B7	F7	Q550	F6	CHASSIS
J1200	E2	G4	T500	B3	CHASSIS



ASSY A10

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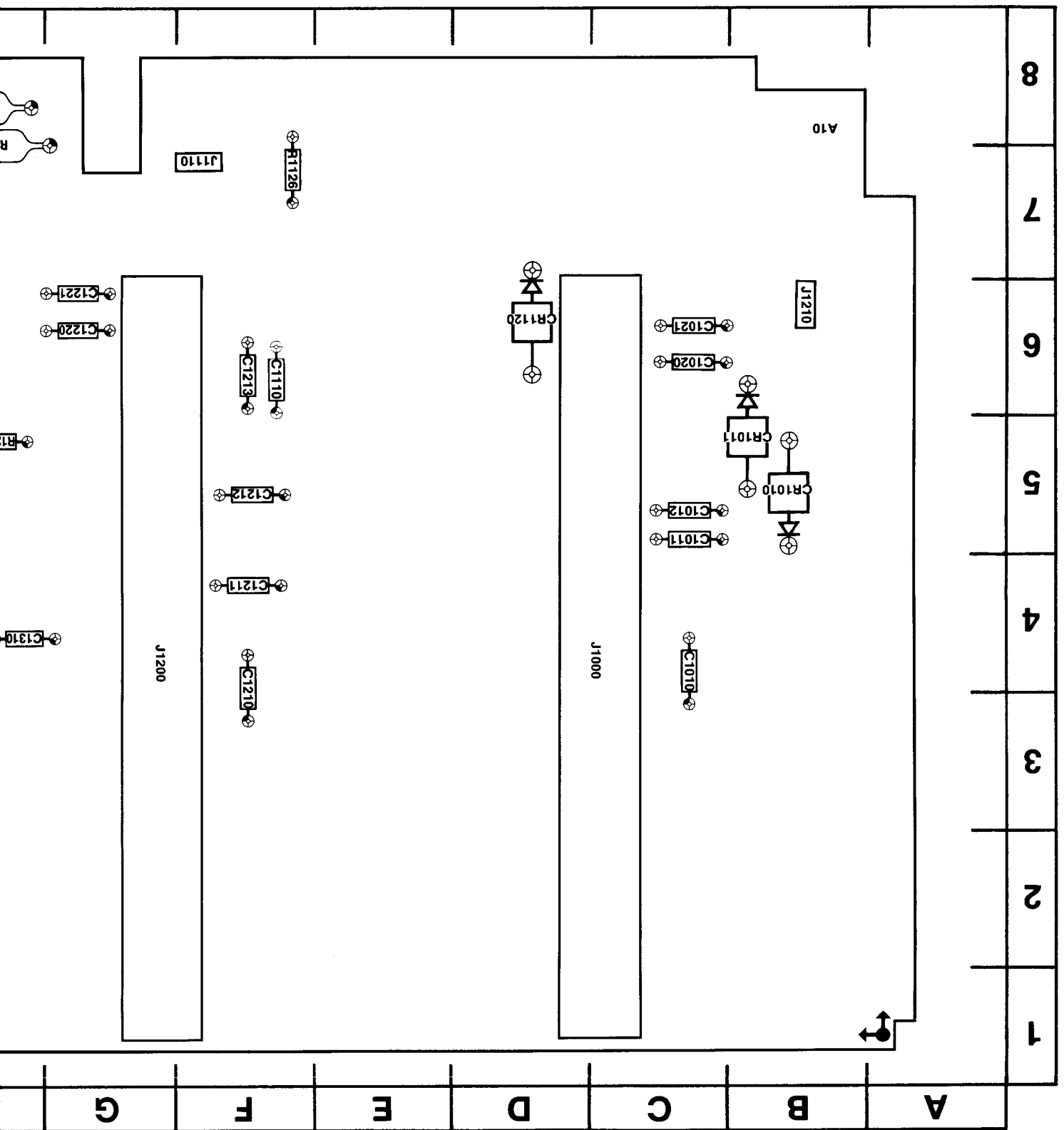




Chassis-mounted components have no Assembly Number prefix—see end of Replaceable Electrical Parts List.

⊗ Static Sensitive Devices
 See Maintenance Section

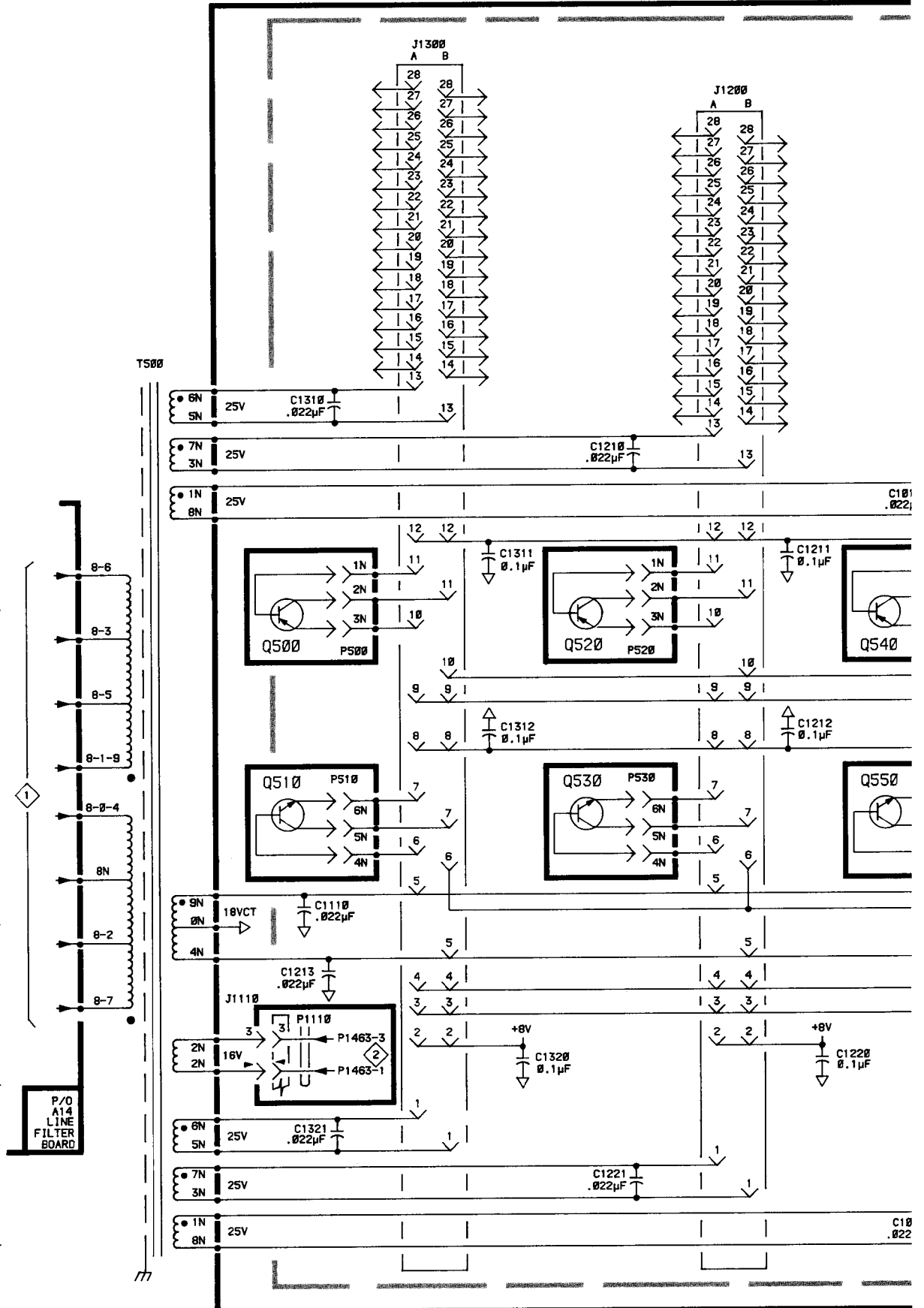
Fig. 8-5. Main Interface Board.



PARTS LOCATION GRID

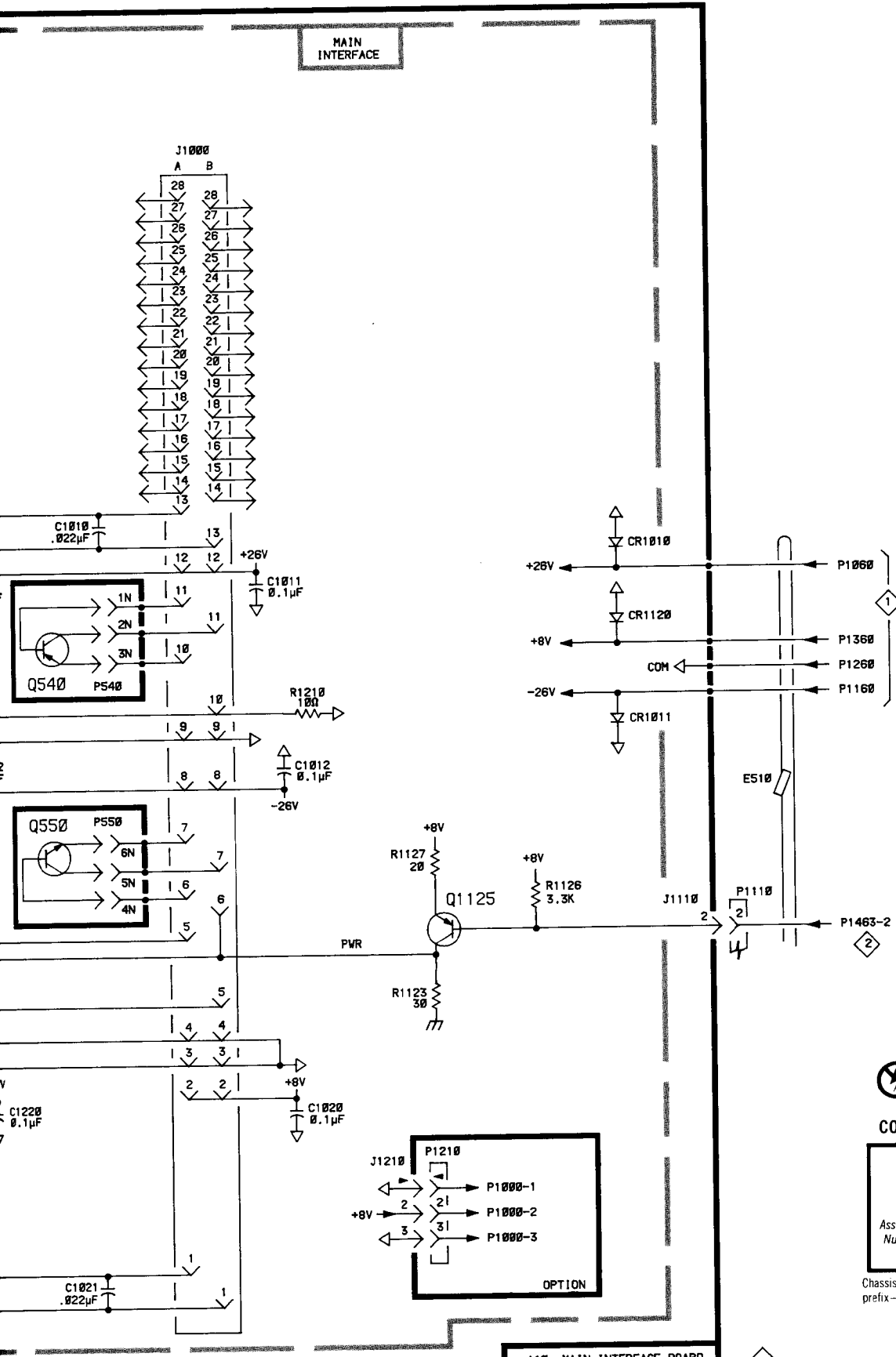
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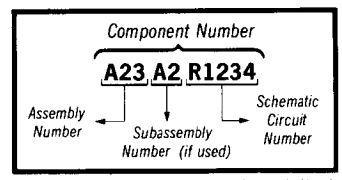
TM 5003

F | H | J | K | L | M



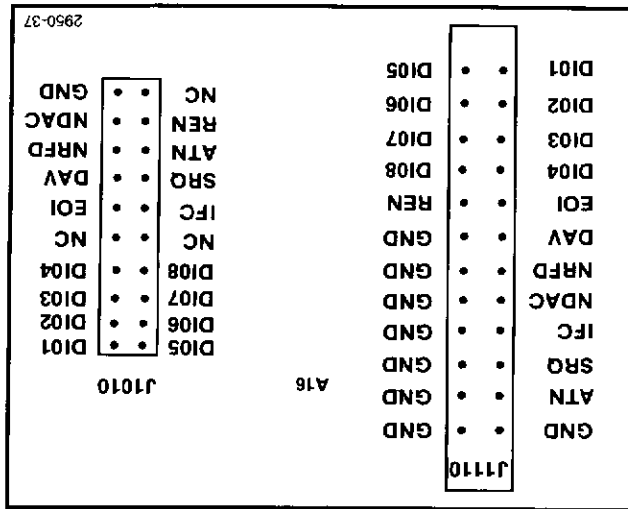
 **Static Sensitive Devices**
See Maintenance Section

COMPONENT NUMBER EXAMPLE

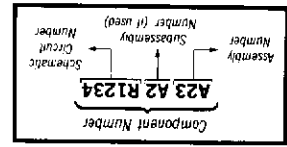



Chassis-mounted components have no Assembly Number prefix—see end of Replaceable Electrical Parts List.

Fig. 8-6. GPIB Interconnect Board (back side).
ASSY A16



COMPONENT NUMBER EXAMPLE

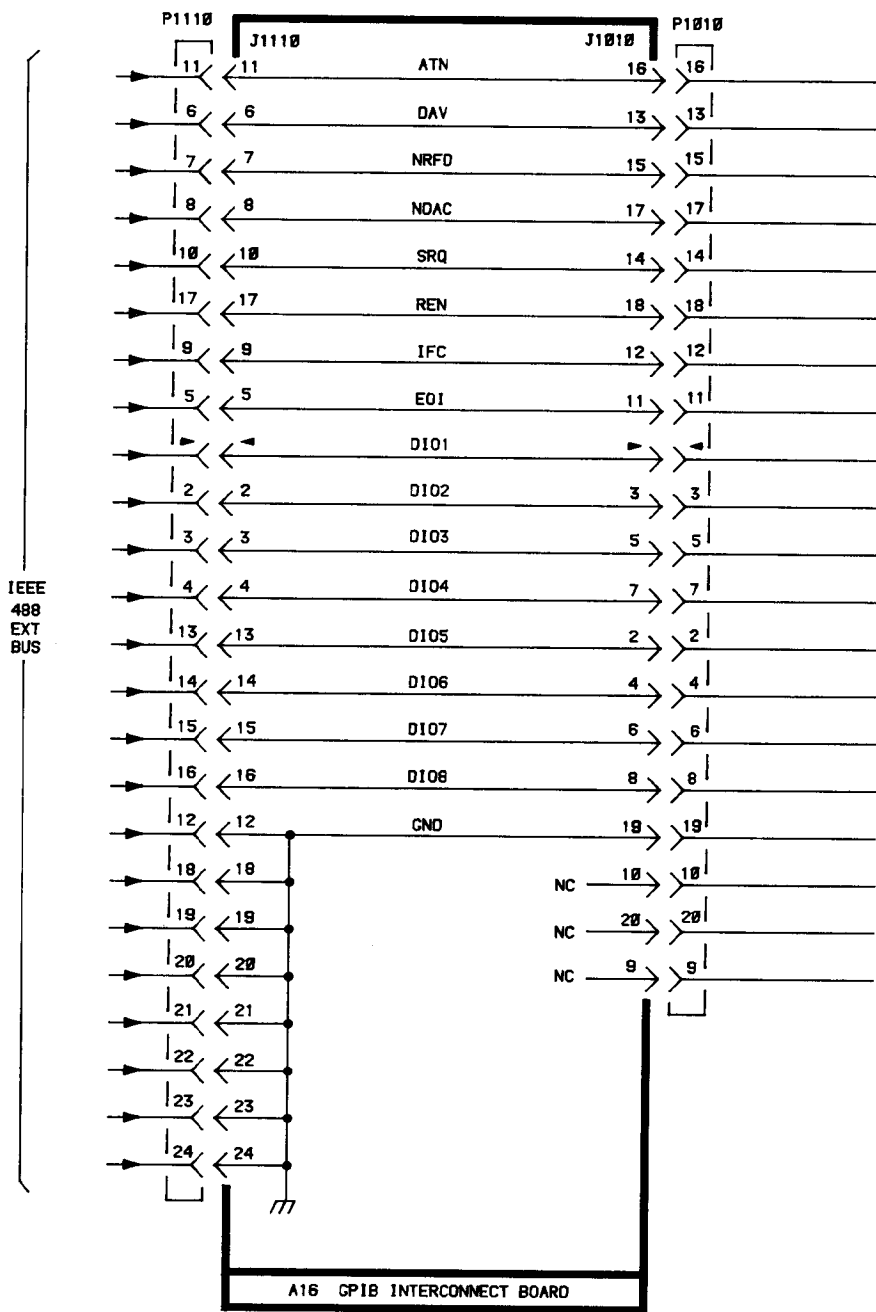


Static Sensitive Devices  See Maintenance Section

Chassis-mounted components have no Assembly Number prefix—see end of Replaceable Electrical Parts List.

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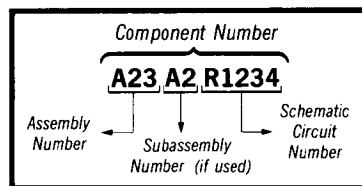


E | F | H | J | K | L

P500	P510	P520
16	16	16
13	13	13
15	15	15
17	17	17
14	14	14
18	18	18
12	12	12
11	11	11
4	4	4
3	3	3
5	5	5
7	7	7
2	2	2
4	4	4
6	6	6
8	8	8
19	19	19
10	10	10
20	20	20
9	9	9

 **Static Sensitive Devices**
See Maintenance Section

COMPONENT NUMBER EXAMPLE



Chassis-mounted components have no Assembly Number prefix—see end of Replaceable Electrical Parts List.

GPIO INTERCONNECT

Q
2955-33

4

JS

REPLACEABLE MECHANICAL PARTS

PARTS ORDERING INFORMATION

Replacement parts are available from or through your local Tektronix, Inc. Field Office or representative.

Changes to Tektronix instruments are sometimes made to accommodate improved components as they become available, and to give you the benefit of the latest circuit improvements developed in our engineering department. It is therefore important, when ordering parts, to include the following information in your order: Part number, instrument type or number, serial number, and modification number if applicable.

If a part you have ordered has been replaced with a new or improved part, your local Tektronix, Inc. Field Office or representative will contact you concerning any change in part number.

Change information, if any, is located at the rear of this manual.

SPECIAL NOTES AND SYMBOLS

X000 Part first added at this serial number
00X Part removed after this serial number

FIGURE AND INDEX NUMBERS

Items in this section are referenced by figure and index numbers to the illustrations.

INDENTATION SYSTEM

This mechanical parts list is indented to indicate item relationships. Following is an example of the indentation system used in the description column.

1 2 3 4 5 *Name & Description*

Assembly and/or Component

Attaching parts for Assembly and/or Component

---*---

Detail Part of Assembly and/or Component

Attaching parts for Detail Part

---*---

Parts of Detail Part

Attaching parts for Parts of Detail Part

---*---

Attaching Parts always appear in the same indentation as the item it mounts, while the detail parts are indented to the right. Indented items are part of, and included with, the next higher indentation. The separation symbol ---*--- indicates the end of attaching parts.

Attaching parts must be purchased separately, unless otherwise specified.

ITEM NAME

In the Parts List, an Item Name is separated from the description by a colon (:). Because of space limitations, an Item Name may sometimes appear as incomplete. For further Item Name identification, the U.S. Federal Cataloging Handbook H6-1 can be utilized where possible.

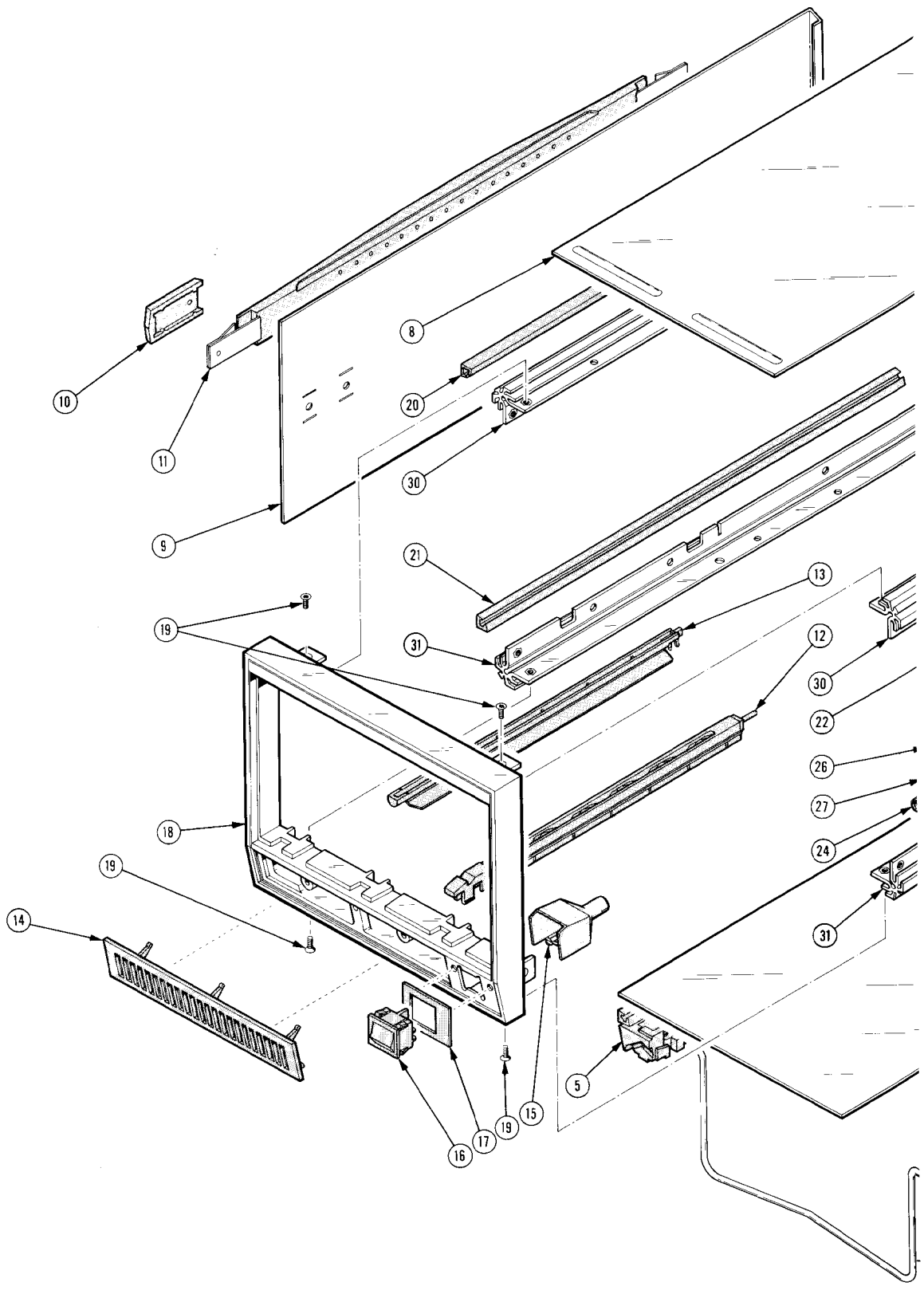
ABBREVIATIONS

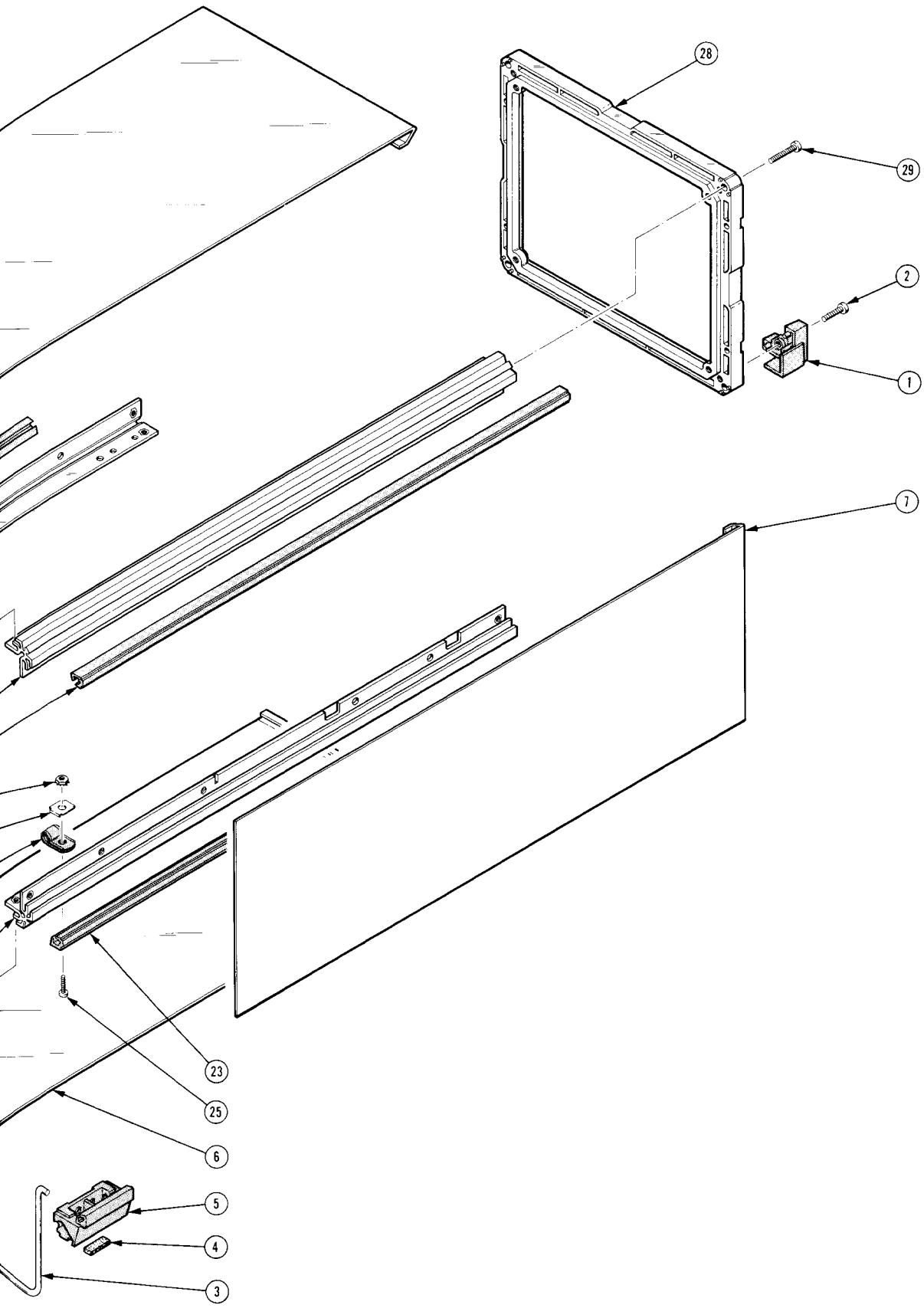
#	INCH NUMBER SIZE	ELCTRN	ELECTRON	IN	INCH	SE	SINGLE END
ACTR	ACTUATOR	ELEC	ELECTRICAL	INCAND	INCANDESCENT	SECT	SECTION
ADPTR	ADAPTER	ELECTLT	ELECTROLYTIC	INSUL	INSULATOR	SEMICOND	SEMICONDUCTOR
ALIGN	ALIGNMENT	ELEM	ELEMENT	INTL	INTERNAL	SHLD	SHIELD
AL	ALUMINUM	EPL	ELECTRICAL PARTS LIST	LPHLDR	LAMPHOLDER	SHLDR	SHOULDERED
ASSEM	ASSEMBLED	EQPT	EQUIPMENT	MACH	MACHINE	SKT	SOCKET
ASSY	ASSEMBLY	EXT	EXTERNAL	MECH	MECHANICAL	SL	SLIDE
ATTEN	ATTENUATOR	FIL	FILLISTER HEAD	MTG	MOUNTING	SLFLKG	SELF-LOCKING
AWG	AMERICAN WIRE GAGE	FLEX	FLEXIBLE	NIP	NIPPLE	SLVG	SLEEVING
BD	BOARD	FLH	FLAT HEAD	NON WIRE	NOT WIRE WOUND	SPR	SPRING
BRKT	BRACKET	FLTR	FILTER	OB	ORDER BY DESCRIPTION	SQ	SQUARE
BRS	BRASS	FR	FRAME or FRONT	OD	OUTSIDE DIAMETER	SST	STAINLESS STEEL
BRZ	BRONZE	FSTNR	FASTENER	OVH	OVAL HEAD	STL	STEEL
BSHG	BUSHING	FT	FOOT	PH BRZ	PHOSPHOR BRONZE	SW	SWITCH
CAB	CABINET	FXD	FIXED	PL	PLAIN or PLATE	T	TUBE
CAP	CAPACITOR	GSKT	GASKET	PLSTC	PLASTIC	TERM	TERMINAL
CER	CERAMIC	HDL	HANDLE	PN	PART NUMBER	THD	THREAD
CHAS	CHASSIS	HEX	HEXAGON	PNH	PAN HEAD	THK	THICK
CKT	CIRCUIT	HEX HD	HEXAGONAL HEAD	PWR	POWER	TNSN	TENSION
COMP	COMPOSITION	HEX SOC	HEXAGONAL SOCKET	RCPT	RECEPTACLE	TPG	TAPPING
CONN	CONNECTOR	HLCPS	HELICAL COMPRESSION	RES	RESISTOR	TRH	TRUSS HEAD
COV	COVER	HLEXT	HELICAL EXTENSION	RGD	RIGID	V	VOLTAGE
CPLG	COUPLING	HV	HIGH VOLTAGE	RLF	RELIEF	VAR	VARIABLE
CRT	CATHODE RAY TUBE	IC	INTEGRATED CIRCUIT	RTNR	RETAINER	W/	WITH
DEG	DEGREE	ID	INSIDE DIAMETER	SCH	SOCKET HEAD	WSHR	WASHER
DWR	DRAWER	IDENT	IDENTIFICATION	SCOPE	OSCILLOSCOPE	XFMP	TRANSFORMER
		IMPLR	IMPELLER	SCR	SCREW	XSTR	TRANSISTOR

CROSS INDEX—MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, State, Zip
83629	PANEL COMPONENTS CORP.	2015 SECOND ST.	BERKELEY, CA 94170
000EL	PORTLAND SCREW CO.	6520 N. BASIN AVE.	PORTLAND, OR 97217
00779	AMP, INC.	P O BOX 3608	HARRISBURG, PA 17105
02114	FERROXCUBE CORPORATION	PO BOX 359, MARION ROAD	SAUGERTIES, NY 12477
04713	MOTOROLA, INC., SEMICONDUCTOR PROD. DIV.	5005 E MCDOWELL RD, PO BOX 20923	PHOENIX, AZ 85036
08530	RELIANCE MICA CORP.	342-39TH ST.	BROOKLYN, NY 11232
13511	AMPHENOL CARDRE DIV., BUNKER RAMO CORP.		LOS GATOS, CA 95030
22526	BERG ELECTRONICS, INC.	YOUK EXPRESSWAY	NEW CUMBERLAND, PA 17070
24618	TRANSCON MFG. CO.	2655 PERTH ST.	DALLAS, TX 75220
27264	MOLEX PRODUCTS CO.	5224 KATRINE AVE.	DOWNERS GROVE, IL 60515
70485	ATLANTIC INDIA RUBBER WORKS, INC.	571 W. POLK ST.	CHICAGO, IL 60607
71279	CAMBRIDGE THERMIONIC CORP.	445 CONCORD AVE.	CAMBRIDGE, MA 02138
71468	ITT CANNON ELECTRIC	666 E. DYER RD.	SANTA ANA, CA 92702
71785	TRW, CINCH CONNECTORS	1501 MORSE AVENUE	ELK GROVE VILLAGE, IL 60007
73743	FISCHER SPECIAL MFG. CO.	446 MORGAN ST.	CINCINNATI, OH 45206
73803	TEXAS INSTRUMENTS, INC., METALLURGICAL MATERIALS DIV.	34 FOREST STREET	ATTLEBORO, MA 02703
78189	ILLINOIS TOOL WORKS, INC. SHAKEPROOF DIVISION	ST. CHARLES ROAD	ELGIN, IL 60120
80009	TEKTRONIX, INC.	P O BOX 500	BEAVERTON, OR 97077
80126	PACIFIC ELECTRICORD CO.	747 W. REDONDO BEACH, P O BOX 10	GARDENA, CA 90247
81041	HOWARD INDUSTRIES, DIVISION OF MSL INDUSTRIES, INC.	P O BOX 287	MILFORD, IL 60953
83385	CENTRAL SCREW CO.	2530 CRESCENT DR.	BROADVIEW, IL 60153
86928	SEASTROM MFG. COMPANY, INC.	701 SONORA AVENUE	GLENDALE, CA 91201
93907	TEXTRON INC. CAMCAR DIV	600 18TH AVE	ROCKFORD, IL 61101
95987	WECKESSER CO., INC.	4444 WEST IRVING PARK RD.	CHICAGO, IL 60641
98159	RUBBER TECK, INC.	19115 HAMILTON AVE., P O BOX 389	GARDENA, CA 90247

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Dscont	Qty	1	2	3	4	5	Name & Description	Mfr Code	Mfr Part Number
1-1	348-0544-05			4						RTNR,CAB COVER:CORNER EARTH BROWN,PC (ATTACHING PARTS)	80009	348-0544-05
-2	213-0782-00			4						SCREW,TPG,TF:8-32 X 0.625 FILH,STEEL CD PL - - - * - - -	93907	OBD
-3	348-0282-00			1						FLIPSTAND,CAB.:3.438 H,SST	80009	348-0282-00
-4	348-0596-00			4						PAD,CAB.FOOT:0.69 X 0.255 X 0.06,PU	80009	348-0596-00
-5	348-0617-04			4						FOOT,CABINET:BOT,EARTH BROWN	80009	348-0617-04
-6	390-0647-03			1						CABINET, TOP:0.5 RACK X 17.956	80009	390-0647-03
-7	390-0783-03			1						CABINET, SIDE:7.0 X 17.966,AL,EARTH BROWN	80009	390-0783-03
-8	390-0645-03			1						CABINET, TOP:0.5 RACK X 17.956	80009	390-0645-03
-9	390-0784-07			1						CABINET, SIDE:7.0 X 17.966,W/HOLES	80009	390-0784-07
-10	200-2191-03			2						CAP,RETAINER:PLASTIC,EARTH BROWN	80009	200-2191-00
-11	367-0248-07			1						HANDLE,CARRYING:16.34 L,W/CLIP,PLASTIC	80009	367-0248-07
-12	351-0619-00			3						GUIDE,PLUG-IN:BOTTOM	80009	351-0619-00
-13	378-0182-00			2						BAFFLE,AIR:	80009	378-0182-00
-14	378-0171-00			1						GRILLE,PLASTIC:6.542 X 1.126	80009	378-0171-00
-15	200-2576-00			1						COVER,SWITCH:PLASTIC	80009	200-2576-00
-16	-----			1						SWITCH,ROCKER:(SEE S500 REPL)		
-17	200-2565-00			1						COVER,SWITCH:PLASTIC	80009	200-2565-00
-18	426-1785-01			1						FR PANEL,CAB:FRONT (ATTACHING PARTS)	80009	426-1785-01
-19	211-0541-00			6						SCREW,MACHINE:6-32 X 0.25"100 DEG,FLH STL - - - * - - -	83385	OBD
-20	124-0354-03			1						STRIP,TRIM:CORNER, TOP,EARTH BROWN,17.41 L	80009	124-0354-03
-21	124-0355-03			1						STRIP,TRIM:CORNER,BOT,EARTH BROWN,13.9 L	80009	124-0355-03
-22	124-0380-01			1						STRIP,TRIM:17.41 L,CORNER W/STEP, TOP	80009	124-0380-01
-23	124-0381-01			1						STRIP,TRIM:13.91 L,CORNER W/STEP, BOT	80009	124-0381-01
-24	343-0003-00			2						CLAMP,LOOP:0.25 INCH DIA (ATTACHING PARTS)	95987	1-4 6R
-25	211-0578-00			2						SCREW,MACHINE:6-32 X 0.438 INCH,PNH STL	83385	OBD
-26	210-0457-00			2						NUT,PL,ASSEM WA:6-32 X 0.312 INCH,STL	83385	OBD
-27	210-0863-00			2						WSHR,LOOP CLAMP:FOR 0.50" WIDE CLAMP,STL - - - * - - -	95987	C191
-28	426-1469-04			1						FRAME,CABINET:REAR,AL (ATTACHING PARTS)	80009	426-1469-04
-29	213-0863-00			4						SCREW,TPG,TF:8-32 X 1.375,TAPTITE - - - * - - -	93907	OBD
-30	426-1777-00			2						FR SECT,PWR MDL:UPPER	80009	426-1777-00
-31	426-1776-00			2						FR SECT,PWR MDL:LOWER	80009	426-1776-00

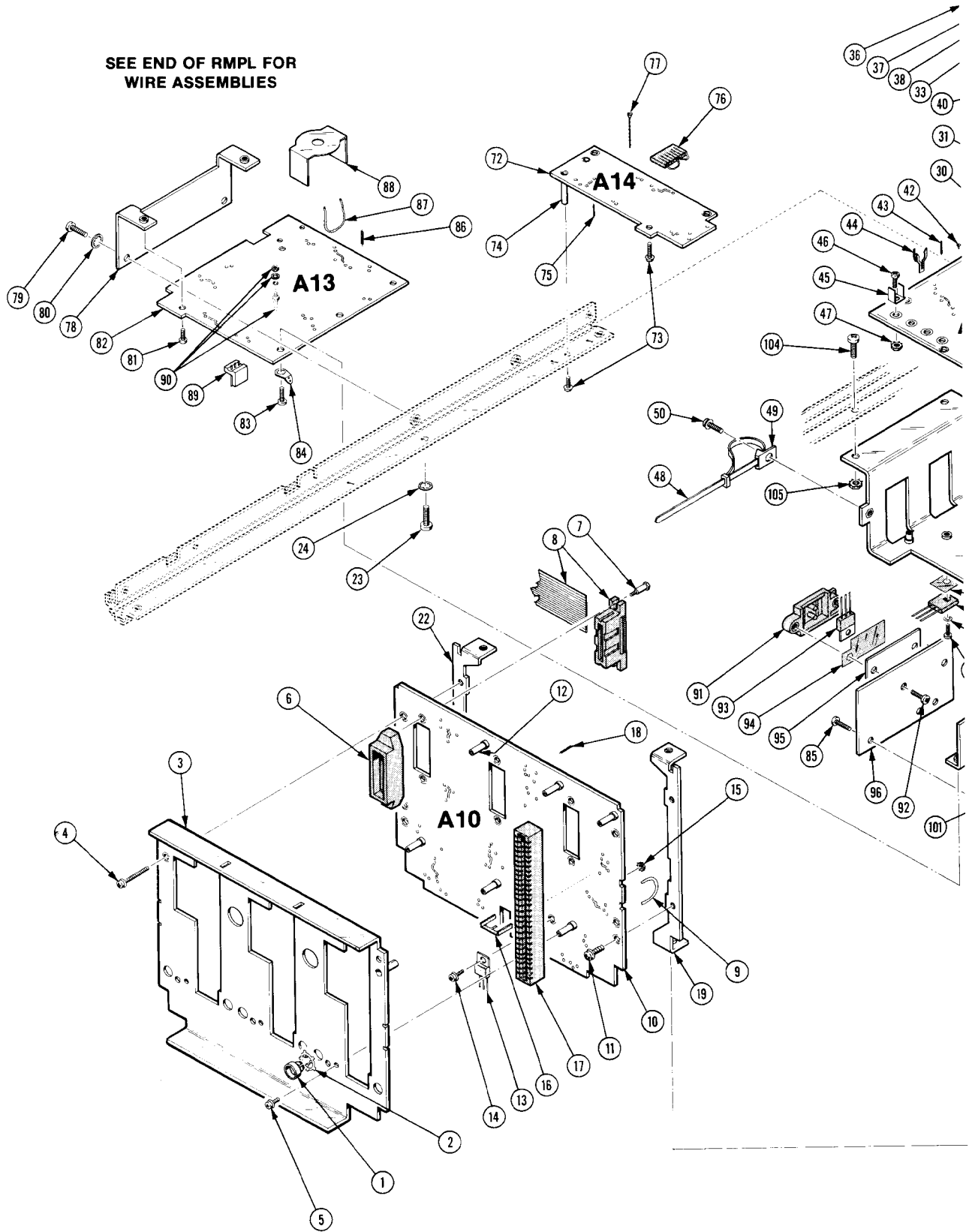




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FIG. 2 EXPLODED

SEE END OF RMPL FOR
WIRE ASSEMBLIES



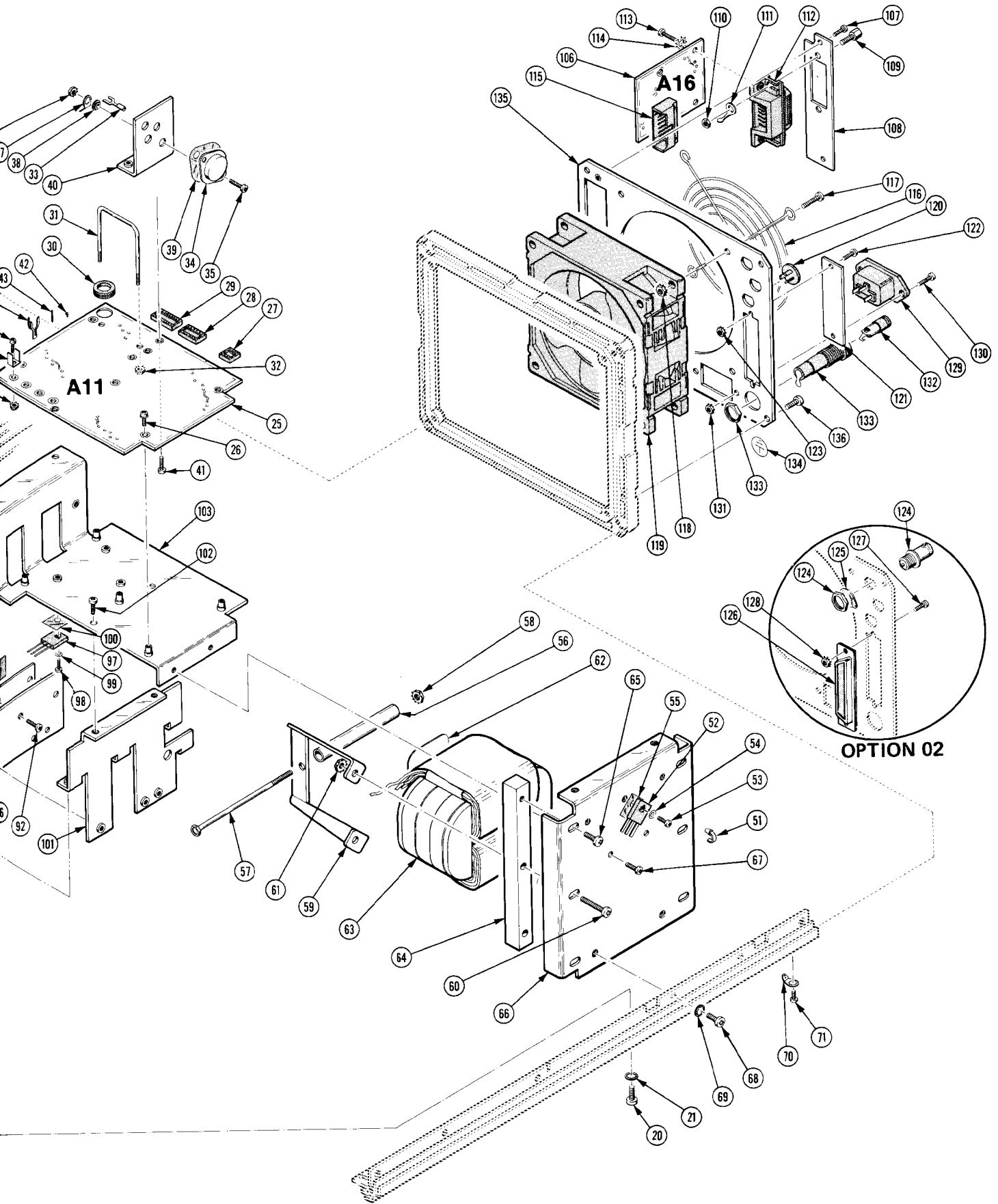


Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Dscont	Qty	1 2 3 4 5	Name & Description	Mfr Code	Mfr Part Number
2-1	348-0640-00			6		GROMMET, PLASTIC: BLACK, ROUND, 0.188 ID	80009	348-0640-00
-2	214-3026-00			6		SPRING, GROUND: CU BE	80009	214-3026-00
-3	386-4503-00			1		SUPPORT, CKT BD: ALUMINUM (ATTACHING PARTS)	80009	386-4503-00
-4	211-0516-00			4		SCREW, MACHINE: 6-32 X 0.875 INCH, PNH STL	83385	OBD
-5	211-0244-00			6		SCR, ASSEM WSHR: 4-40 X 0.312 INCH, PNH STL	78189	OBD
-6	380-0655-00			3		HOUSING, CONN: FLOATING, PLASTIC (ATTACHING PARTS)	80009	380-0655-00
-7	211-0295-00			6		SCREW, SHOULDER: 2-56 X 0.54 L, HEX HD - - - * - - -	80009	211-0295-00
-8	175-3247-00			1		CA ASSY, SP, ELEC: 20, 28 AWG, 11.4 L	22526	OBD
-9	346-0032-00			1		STRAP, RETAINING: 0.075 DIA X 4.0 L, MLD RBR	98159	2859-75-4
-10	-----			1		CKT BOARD ASSY: MAIN INTERCONNECT (SEE A10 REPL) (ATTACHING PARTS)		
-11	211-0601-00			4		SCR, ASSEM WSHR: 6-32 X 0.312, DOUBLE SEMS - - - * - - -	83385	OBD
-12	-----			-		. CKT BOARD ASSY INCLUDES:		
-12	129-0814-00			6		. SPACER, POST: 0.622 W/4-40 INT THD	80009	129-0814-00
-13	-----			1		. TRANSISTOR: (SEE A10Q1125 REPL) (ATTACHING PARTS)		
-14	210-0244-00			1		. TERMINAL, LUG: #10, RING, SOLDERLESS, CU TIN PL	86928	A373-148-1
-15	210-0406-00			1		. NUT, PLAIN, HEX: 4-40 X 0.188 INCH, BRS - - - * - - -	73743	2X12161-402
-16	214-1593-02			3		. KEY, CONN PLZN: CKT BD CONN	80009	214-1593-02
-17	-----			3		. CONNECTOR, RCPT: (SEE A10J1000, J1200, J1300 REPL)		
-18	-----			3		. TERMINAL, PIN: (SEE A10J1110 REPL)		
-19	386-4504-00			1		SUPPORT, CKT BD: LEFT, ALUMINUM (ATTACHING PARTS)	80009	386-4504-00
-20	212-0023-00			2		SCREW, MACHINE: 8-32 X 0.375 INCH, PNH STL	83385	OBD
-21	210-0008-00			2		WASHER, LOCK: INTL, 0.172 ID X 0.331"OD, STL - - - * - - -	78189	1208-00-00-0541C
-22	386-4501-00			1		SUPPORT, CKT BD: RIGHT, ALUMINUM (ATTACHING PARTS)	80009	386-4501-00
-23	212-0023-00			2		SCREW, MACHINE: 8-32 X 0.375 INCH, PNH STL	83385	OBD
-24	210-0008-00			2		WASHER, LOCK: INTL, 0.172 ID X 0.331"OD, STL - - - * - - -	78189	1208-00-00-0541C
-25	-----			1		CKT BD ASSY: POWER SPLY SECONDARY (SEE A11 REPL) (ATTACHING PARTS)		
-26	211-0244-00			5		SCR, ASSEM WSHR: 4-40 X 0.312 INCH, PNH STL - - - * - - -	78189	OBD
-27	-----			-		. CKT BOARD ASSY INCLUDES:		
-27	136-0514-00			1		. SKT, PL-IN ELEC: MICROCIRCUIT, 8 DIP	73803	CS9002-8
-28	136-0269-02			5		. SKT, PL-IN ELEC: MICROCIRCUIT, 14 DIP, LOW CLE	73803	CS9002-14
-29	136-0260-02			1		. SKT, PL-IN ELEC: MICROCIRCUIT, 16 DIP, LOW CLE	71785	133-51-92-008
-30	348-0005-00			1		. GROMMET, RUBBER: 0.50 INCH DIA	70485	230
-31	214-2610-00			1		. BOLT, U: 4-40 X 1.85 X 1.5, BRASS (ATTACHING PARTS)	02114	OBD
-32	210-0586-00			2		. NUT, PL, ASSEM WA: 4-40 X 0.25, STL CD PL - - - * - - -	83385	OBD
-33	210-0287-00			2		. TERMINAL, LUG: # 6 RING	00779	34142
-34	-----			1		. SEMICOND DEVICE: (SEE A11CR500 REPL) (ATTACHING PARTS)		
-35	211-0578-00			2		. SCREW, MACHINE: 6-32 X 0.438 INCH, PNH STL	83385	OBD
-36	210-0457-00			2		. NUT, PL, ASSEM WA: 6-32 X 0.312 INCH, STL	83385	OBD
-37	210-0202-00			1		. TERMINAL, LUG: 0.146 ID, LOCKING, BRZ TINNED	78189	2104-06-00-2520N
-38	210-0967-00			2		. WSHR, SHOULDERED: 0.157 ID X 0.375 INCH OD	80009	210-0967-00
-39	386-0978-00			1		. INSULATOR, PLATE: TRANSISTOR, MICA - - - * - - -	80009	386-0978-00
-40	214-3140-00			1		. HEAT SINK, XSTR: TO-3, AL (ATTACHING PARTS)	80009	214-3140-00
-41	211-0097-00			2		. SCREW, MACHINE: 4-40 X 0.312 INCH, PNH STL - - - * - - -	83385	OBD
-42	136-0252-07			9		. SOCKET, PIN CONN: W/O DIMPLE	22526	75060-012
-43	-----			6		. TERMINAL, PIN: (SEE A11J1300, J1463 REPL)		
-44	344-0154-03			2		. CLIP, ELECTRICAL: FUSE, CKT BD MT	80009	344-0154-03

Replaceable Mechanical Parts—TM 5003

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff Dscont	Qty	1	2	3	4	5	Name & Description	Mfr Code	Mfr Part Number
2-45	-----	-----	4	.	TERM,QIK DISC:(SEE A11J1060,J1160,J1260, - J1360 REPL)						
					(ATTACHING PARTS)						
-46	211-0097-00		4	.	SCREW,MACHINE:4-40 X 0.312 INCH,PNH STL					83385	OBD
-47	210-0586-00		2	.	NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL					83385	OBD
					* - - - -						
-48	343-0149-00		2		CLAMP,LOOP:NYLON					80009	343-0149-00
-49	343-0150-00		2		CLAMP,TIE DOWN:					95987	OBD
					(ATTACHING PARTS)						
-50	211-0658-00		2	SCR,ASSEM WSHR:6-32 X 0.312 L,PNH,STL						78189	OBD
					* - - - -						
-51	343-0213-00		1		CLAMP,LOOP:PRESS MT,PLASTIC					80009	343-0213-00
-52	-----		3		TRANSISTOR:(SEE Q500,Q520,Q540 REPL)						
					(ATTACHING PARTS)						
-53	211-0012-00		3		SCREW,MACHINE:4-40 X 0.375,PNH STL CD PL					83385	OBD
-54	210-1122-00		3		WASHER,LOCK:0.228 ID X 0.375 INCH OD,STL					04713	B52200F006
-55	342-0163-00		3		INSULATOR,PLATE:XSTR,0.675 X 0.625 X 0.001"					80009	342-0163-00
					* - - - -						
-56	361-1101-00		1		SPACER,SLEEVE:3.1 L X 0.196 ID,AL					80009	361-1101-00
					(ATTACHING PARTS)						
-57	212-0543-00		1		SCREW,MACHINE:10-32 X 3.750HEX HD					83385	OBD
-58	220-0410-00		1		NUT,EXTENDED WA:10-32 X 0.375 INCH,STL					83385	OBD
					* - - - -						
-59	407-1174-01		2		BRACKET,XFMR:ALUMINUM					80009	407-1174-01
					(ATTACHING PARTS)						
-60	212-0020-00		4		SCREW,MACHINE:8-32 X 1.0 INCH,PNH STL					93907	OBD
-61	210-0458-00		4		NUT,PL,ASSEM WA:8-32 X 0.344 INCH,STL					78189	511-081800-00
-62	342-0028-00		2		INSULATOR,PLATE:0.600 W X 1.700 INCH LONG					80009	342-0028-00
-63	-----		1		XFMR,PWR,STPDN:(SEE T500 REPL)						
-64	361-1059-00		2		SPACER,BAR:0.5 SQ X 5.44 L,AL					80009	361-1059-00
					(ATTACHING PARTS)						
-65	212-0008-00		2		SCREW,MACHINE:8-32 X 0.500 INCH,PNH STL					83385	OBD
					* - - - -						
-66	386-4502-00		1		SUPPORT,XFMR:ALUMINUM					80009	386-4502-00
					(ATTACHING PARTS)						
-67	211-0504-00		2		SCREW,MACHINE:6-32 X 0.25 INCH,PNH STL					83385	OBD
-68	212-0023-00		4		SCREW,MACHINE:8-32 X 0.375 INCH,PNH STL					83385	OBD
-69	210-0008-00		4		WASHER,LOCK:INTL,0.172 ID X 0.331"OD,STL					78189	1208-00-00-0541C
					* - - - -						
-70	210-0202-00		1		TERMINAL,LUG:0.146 ID,LOCKING,BRZ TINNED					78189	2104-06-00-2520N
					(ATTACHING PARTS)						
-71	211-0507-00		1		SCREW,MACHINE:6-32 X 0.312 INCH,PNH STL					83385	OBD
					* - - - -						
-72	-----		1		CKT BOARD ASSY:LINE FILTER(SEE A14 REPL)						
					(ATTACHING PARTS)						
-73	211-0244-00		3	SCR,ASSEM WSHR:4-40 X 0.312 INCH,PNH STL						78189	OBD
					* - - - -						
-74	129-0161-00		2		SPACER,POST:0.86 INCH LONG,BRS					80009	129-0161-00
-75	-----		22		TERMINAL,PIN:(SEE A14J1100,J1101,J1102, - J1103,J1104,J1105 REPL)						
-76	131-1896-00		2		LINK,TERM. CONN:8,22 AWG,1.5 L					80009	131-1896-00
-77	006-0531-00		3		STRAP,TIEDOWN,E:BLUE PLASTIC BEADED					24618	700-3688
-78	441-1549-00		1		CHASSIS,PWR MDL:PRIMARY POWER SUPPLY,LEFT					80009	441-1549-00
					(ATTACHING PARTS)						
-79	212-0023-00		2		SCREW,MACHINE:8-32 X 0.375 INCH,PNH STL					83385	OBD
-80	210-0008-00		2		WASHER,LOCK:INTL,0.172 ID X 0.331"OD,STL					78189	1208-00-00-0541C
-81	211-0244-00		2	SCR,ASSEM WSHR:4-40 X 0.312 INCH,PNH STL						78189	OBD
					* - - - -						
-82	-----		1		CKT BOARD ASSY:POWER SPLY PRIMARY(SEE A13 REPL)						
					(ATTACHING PARTS)						
-83	211-0244-00		3	SCR,ASSEM WSHR:4-40 X 0.312 INCH,PNH STL						78189	OBD
-84	210-0202-00		1		TERMINAL,LUG:0.146 ID,LOCKING,BRZ TINNED					78189	2104-06-00-2520N
-85	211-0507-00		3		SCREW,MACHINE:6-32 X 0.312 INCH,PNH STL					83385	OBD
					* - - - -						

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff Dscont	Qty	1	2	3	4	5	Name & Description	Mfr Code	Mfr Part Number
2-	-----	-----	-	.	.	.	.	.	CKT BOARD ASSY INCLUDES:		
-86	-----	-----	33	.	.	.	.	.	TERMINAL,PIN:(SEE A13J1430 REPL)		
-87	346-0032-00		1	.	.	.	.	.	STRAP,RETAINING:0.075 DIA X 4.0 L,MLD RBR	98159	2859-75-4
-88	343-0769-00		1	.	.	.	.	.	CLAMP,POT CORE:		
-89	-----	-----	2	.	.	.	.	.	TERM,FEEDTHRU:(SEE A13J1000,J1420 REPL)		
-90	131-0373-00		1	.	.	.	.	.	TERMINAL,STUD:0.593 L	71279	572-4894-01-0516
-91	200-2269-00		1	.	.	.	.	.	COVER,XSTR:	80009	200-2269-00
									(ATTACHING PARTS)		
-92	211-0511-00		2	.	.	.	.	.	SCREW,MACHINE:6-32 X 0.500,PNH,STL,CD PL	83385	OBD
									* - - - -		
-93	-----	-----	2	.	.	.	.	.	TRANSISTOR;(SEE A13Q1300,Q1301 REPL)		
-94	342-0458-00		1	.	.	.	.	.	INSULATOR,PLATE:TRANSISTOR,MICA	08530	OBD
-95	342-0449-01		1	.	.	.	.	.	INSULATOR,PLATE:TRANSISTOR,ALUMINA,PRINTED	80009	342-0449-01
-96	214-3141-00		1	.	.	.	.	.	HEAT SINK,XSTR:(2)TO-220,AL	80009	214-3141-00
-97	-----	-----	3	.	.	.	.	.	TRANSISTOR:(SEE Q510,Q530,Q550 REPL)		
									(ATTACHING PARTS)		
-98	211-0012-00		3	.	.	.	.	.	SCREW,MACHINE:4-40 X 0.375,PNH STL CD PL	83385	OBD
-99	210-1122-00		3	.	.	.	.	.	WASHER,LOCK:0.228 ID X 0.375 INCH OD,STL	04713	B52200F006
-100	342-0163-00		3	.	.	.	.	.	INSULATOR,PLATE:XSTR,0.675 X 0.625 X 0.001"	80009	342-0163-00
									* - - - -		
-101	441-1551-00		1	.	.	.	.	.	CHASSIS,PWR MDL:PRIMARY POWER SUPPLY,RIGHT	80009	441-1551-00
									(ATTACHING PARTS)		
-102	211-0507-00		2	.	.	.	.	.	SCREW,MACHINE:6-32 X 0.312 INCH,PNH STL	83385	OBD
									* - - - -		
-103	441-1550-00		1	.	.	.	.	.	CHASSIS,PWR MDL:SECONDARY POWER SUPPLY	80009	441-1550-00
									(ATTACHING PARTS)		
-104	212-0023-00		2	.	.	.	.	.	SCREW,MACHINE:8-32 X 0.375 INCH,PNH STL	83385	OBD
-105	210-0458-00		2	.	.	.	.	.	NUT,PL,ASSEM WA:8-32 X 0.344 INCH,STL	78189	511-081800-00
									* - - - -		
-106	-----	-----	1	.	.	.	.	.	CKT BOARD ASSY:GPIB INTERFACE(SEE A16 REPL)		
									(ATTACHING PARTS)		
-107	211-0244-00		2	.	.	.	.	.	SCR,ASSEM WSHR:4-40 X 0.312 INCH,PNH STL	78189	OBD
									* - - - -		
									CKT BOARD ASSY INCLUDES:		
-108	333-2648-00		1	.	.	.	.	.	PANEL,FRONT:GPIB	80009	333-2648-00
									(ATTACHING PARTS)		
-109	129-0721-00		2	.	.	.	.	.	SPACER,POST:0.625 L,W/4-40 EXT THD	80009	129-0721-00
-110	220-0555-00		2	.	.	.	.	.	NUT,PLAIN,HEX.:8-32 X 0.25 INCH STL	000EL	OBD
-111	210-0244-00		1	.	.	.	.	.	TERMINAL,LUG:#10,RING,SOLDERLESS,CU TIN PL	86928	A373-148-1
									* - - - -		
-112	-----	-----	1	.	.	.	.	.	CONN,RCPT,ELEC:(SEE A16J1110 REPL)		
									(ATTACHING PARTS)		
-113	213-0267-00		2	.	.	.	.	.	SCREW,MACHINE:4-24 X 0.375 INCH,PNH STL	83385	OBD
-114	210-0003-00		2	.	.	.	.	.	WASHER,LOCK:EXT,0.123 ID X 0.245" OD,STL	78189	1104-00-00-0541C
									* - - - -		
-115	-----	-----	1	.	.	.	.	.	CONN,RCPT,ELEC:(SEE A16J1010 REPL)		
-116	200-2222-00		1	.	.	.	.	.	GUARD,FAN:	81041	6-182-033
									(ATTACHING PARTS)		
-117	211-0513-00		4	.	.	.	.	.	SCREW,MACHINE:6-32 X 0.625 INCH,PNH STL	83385	OBD
-118	210-0457-00		4	.	.	.	.	.	NUT,PL,ASSEM WA:6-32 X 0.312 INCH,STL	83385	OBD
									* - - - -		
-119	-----	-----	1	.	.	.	.	.	FAN,VENTILATING:(SEE B500 REPL)		
-120	134-0159-00		3	.	.	.	.	.	BUTTON,PLUG:0.38 DIA,PLASTIC	80009	134-0159-00
									(STANDARD ONLY)		
-121	200-2500-00		1	.	.	.	.	.	COVER,GPIB:ALUMINUM	80009	200-2500-00
									(STANDARD ONLY)		
									(ATTACHING PARTS)		
-122	211-0244-00		2	.	.	.	.	.	SCR,ASSEM WSHR:4-40 X 0.312 INCH,PNH STL	78189	OBD
									(STANDARD ONLY)		
-123	210-0586-00		2	.	.	.	.	.	NUT,PL,ASSEM WA:4-40 X 0.25,STL CD PL	83385	OBD
									(STANDARD ONLY)		
									* - - - -		
-124	131-0955-00		3	.	.	.	.	.	CONN,RCPT,ELEC:BNC,FEMALE	13511	31-279
									(OPTION 02 ONLY)		
-125	210-0255-00		3	.	.	.	.	.	TERMINAL,LUG:0.391" ID INT TOOTH	80009	210-0255-00
									(OPTION 02 ONLY)		

Replaceable Mechanical Parts—TM 5003

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff Dscont	Qty	1	2	3	4	5	Name & Description	Mfr Code	Mfr Part Number
2-126	131-0570-00	-----	1						CONNECTOR, RCPT, :25 PIN, MALE	71468	DB25P
			-						(OPTION 02 ONLY)		
									(ATTACHING PARTS)		
-127	211-0008-00	-----	2						SCREW, MACHINE:4-40 X 0.25 INCH, PNH STL	83385	OBD
			-						(OPTION 02 ONLY)		
-128	210-0586-00	-----	2						NUT, PL, ASSEM WA:4-40 X 0.25, STL CD PL	83385	OBD
			-						(OPTION 02 ONLY)		
									- - - * - - -		
-129	-----	-----	1						FILTER, RAD INTE:(SEE FL500 REPL)		
									(ATTACHING PARTS)		
-130	211-0012-00		2						SCREW, MACHINE:4-40 X 0.375, PNH STL CD PL	83385	OBD
-131	210-0586-00		2						NUT, PL, ASSEM WA:4-40 X 0.25, STL CD PL	83385	OBD
									- - - * - - -		
-132	200-2264-00		1						CAP., FUSEHOLDER:3AG FUSES	S3629	031.1666(MDLFEU)
-133	204-0832-00		1						BODY, FUSEHOLDER:3AG, 5 X 20MM FUSES	S3629	031.1673(MDLFEU)
-134	334-3379-03		1						MARKER, IDENT:MARKED GROUND SYMBOL	80009	334-3379-03
-135	333-2723-00		1						PANEL, REAR:	80009	333-2723-00
									(ATTACHING PARTS)		
-136	213-0801-00		4						SCREW, TPG, TF:8-32 X 0.312, TAPTITE, PNH	93907	OBD
									- - - * - - -		

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff Dscont	Qty	1	2	3	4	5	Name & Description	Mfr Code	Mfr Part Number
WIRE ASSEMBLIES											
	352-0161-00		1						. HLD,TERM CONN:3 WIRE BLACK	80009	352-0161-00
	195-1948-00		1						LEAD ELECTRICAL:18 AWG,4.0 L,8-3 - (FROM F500 TO S501)	80009	195-1948-00
	195-1123-00		1						LEAD ELECTRICAL:18 AWG,2.0 L,8-0 - (FROM FL500 TO F500)	80009	195-1123-00
	195-0652-00		1						LEAD ELECTRICAL:18 AWG,4.0 L,5-4 - (FROM FL500 TO CHASSIS)	80009	195-0652-00
	195-0987-00		1						LEAD ELECTRICAL:12 AWG,7.0 L,0-N - (FROM A10 TO A11J1260) SUBPART OF A10	80009	195-0987-00
	195-0986-00		1						LEAD ELECTRICAL:12 AWG,7.0 L,2-N - (FROM A10 +8 TO A11J1360) SUBPART OF A10	80009	195-0986-00
	195-0988-00		1						LEAD ELECTRICAL:18 AWG,6.0 L,2-1 - (FROM A10 +26 TO A11J1060) SUBPART OF A10	80009	195-0988-00
	195-0989-00		1						LEAD ELECTRICAL:18 AWG,6.0 L,7-1 - (FROM A10 -26 TO A11J1160) SUBPART OF A10	80009	195-0989-00
	175-3646-00		3						CA ASSY,SP,ELEC:6,22 AWG,9.0 L,RIBBON - (FROM A10 TO Q500,Q510) SUBPART OF A10 - (FROM A10 TO Q520,Q530) SUBPART OF A10 - (FROM A10 TO Q540,Q500) SUBPART OF A10	80009	175-3646-00
	204-0671-00		6						. BODY,CONN,PLUG,:3 FEMALE POSN. NYLON	27264	09-50-4031
	175-3279-00		2						CA ASSY,SP,ELEC:3,22 AWG,8.0 L,RIBBON - (FROM A10J1110 TO A11J1463) SUBPART OF A10 - (FROM A11J1300 TO J13J1430) SUBPART OF A11	80009	175-3279-00
	352-0161-00		4						. HLD,TERM CONN:3 WIRE BLACK	80009	352-0161-00
	195-1414-00		1						LEAD,ELECTRICAL:12 AWG,2.0 L,0-N - (FROM A11 TO A11CR500) SUBPART OF A11	80009	195-1414-00
	198-4340-00		1						WIRE SET,ELEC: - (FROM A11 TO A13J1420) SUBPART OF A11	80009	198-4340-00
	204-0671-00		1						. BODY,CONN,PLUG,:3 FEMALE POSN. NYLON	27264	09-50-4031
	198-4360-00		1						WIRE SET,ELEC: - (FROM A13J1000 TO A14) SUBPART OF A14	80009	198-4360-00
	195-0947-00		1						LEAD,ELECTRICAL:22 AWG,1.5 L,8-0	80009	195-0947-00

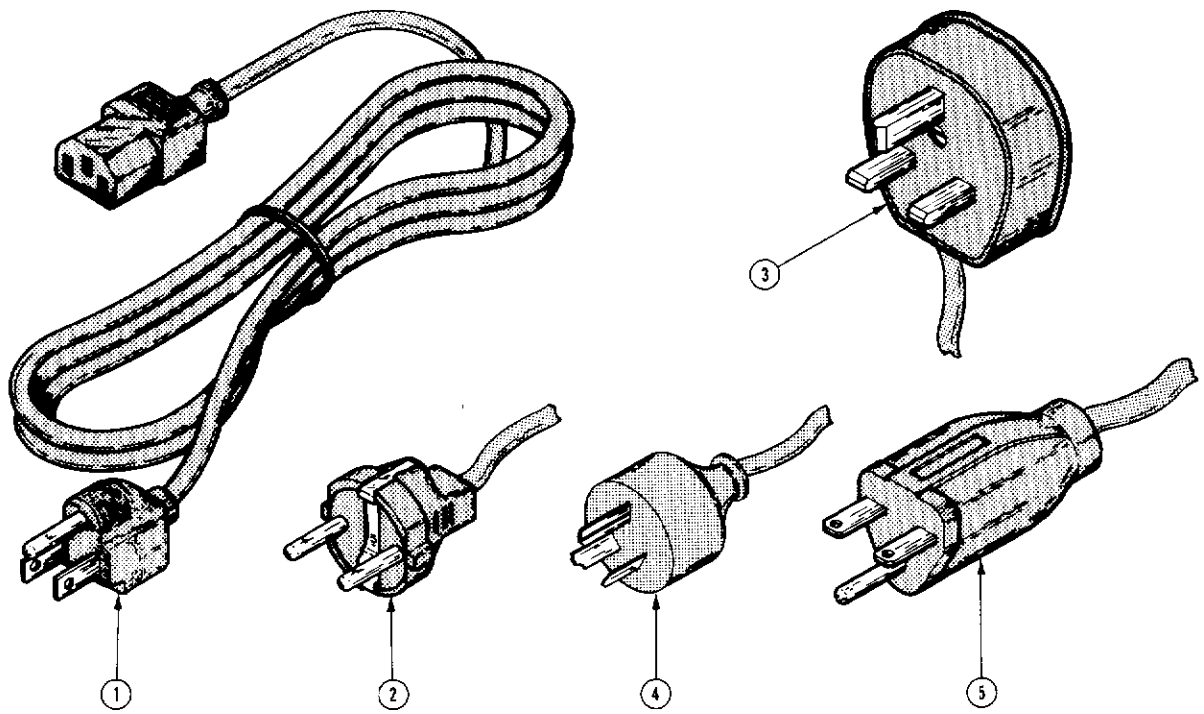


Fig. &
Index
No.

Tektronix
Part No.

Serial/Model No.
Eff Dscont

Qty 1 2 3 4 5

Name & Description

Mfr
Code

Mfr Part Number

ACCESSORIES

-1	161-0066-00			1	CABLE ASSY,PWR,:3,18 AWG,115V,98.0 L - (STANDARD ONLY)	80009	161-0066-00
-2	161-0066-09			1	CABLE ASSY,PWR:3,0.75MM SQ,220V,96.0 L - (OPTION A1 ONLY)	80126	OBD
-3	161-0066-10			1	CABLE ASSY,PWR:3,0.75MM SQ,240V,96.0 L - (OPTION A2 ONLY)	80126	OBD
-4	161-0066-11			1	CABLE ASSY,PWR:3,0.75MM SQ,240V,96.0 L - (OPTION A3 ONLY)	80126	OBD
-5	161-0066-12			1	CABLE ASSY,PWR:3,18 AWG,240V,96.0 L - (OPTION A4 ONLY)	80126	OBD
	070-2955-00			1	MANUAL,TECH: INSTRUCTION	80009	070-2955-00

MANUAL CHANGE INFORMATION

At Tektronix, we continually strive to keep up with latest electronic developments by adding circuit and component improvements to our instruments as soon as they are developed and tested.

Sometimes, due to printing and shipping requirements, we can't get these changes immediately into printed manuals. Hence, your manual may contain new change information on following pages.

A single change may affect several sections. Since the change information sheets are carried in the manual until all changes are permanently entered, some duplication may occur. If no such change pages appear following this page, your manual is correct as printed.

SERVICE NOTE

Because of the universal parts procurement problem, some electrical parts in your instrument may be different from those described in the Replaceable Electrical Parts List. The parts used will in no way alter or compromise the performance or reliability of this instrument. They are installed when necessary to ensure prompt delivery to the customer. Order replacement parts from the Replaceable Electrical Parts List.

CALIBRATION TEST EQUIPMENT REPLACEMENT

Calibration Test Equipment Chart

This chart compares TM 500 product performance to that of older Tektronix equipment. Only those characteristics where significant specification differences occur, are listed. In some cases the new instrument may not be a total functional replacement. Additional support instrumentation may be needed or a change in calibration procedure may be necessary.

Comparison of Main Characteristics

DM 501 replaces 7D13		
PG 501 replaces 107 108	PG 501 - Risetime less than 3.5 ns into 50 Ω. PG 501 - 5 V output pulse; 3.5 ns Risetime	107 - Risetime less than 3.0 ns into 50 Ω. 108 - 10 V output pulse 1 ns Risetime
PG 502 replaces 107 108 111	PG 502 - 5 V output PG 502 - Risetime less than 1 ns; 10 ns Pretrigger pulse delay	108 - 10 V output 111 - Risetime 0.5 ns; 30 to 250 ns Pretrigger pulse delay
PG 508 replaces 114 115 2101	Performance of replacement equipment is the same or better than equipment being replaced.	
PG 506 replaces 106 067-0502-01	PG 506 - Positive-going trigger output signal at least 1 V; High Amplitude output, 60 V. PG 506 - Does not have chopped feature.	106 - Positive and Negative-going trigger output signal, 50 ns and 1 V; High Amplitude output, 100 V. 0502-01 - Comparator output can be alternately chopped to a reference voltage.
SG 503 replaces 190, 190A, 190B 191 067-0532-01	SG 503 - Amplitude range 5 mV to 5.5 V p-p. SG 503 - Frequency range 250 kHz to 250 MHz.	190B - Amplitude range 40 mV to 10 V p-p. 0532-01 - Frequency range 65 MHz to 500 MHz.
SG 504 replaces 067-0532-01 067-0650-00	SG 504 - Frequency range 245 MHz to 1050 MHz.	0532-01 - Frequency range 65 MHz to 500 MHz.
TG 501 replaces 180, 180A 181 184 2901	TG 501 - Trigger output-slaved to marker output from 5 sec through 100 ns. One time-mark can be generated at a time. TG 501 - Trigger output-slaved to market output from 5 sec through 100 ns. One time-mark can be generated at a time. TG 501 - Trigger output-slaved to marker output from 5 sec through 100 ns. One time-mark can be generated at a time.	180A - Trigger pulses 1, 10, 100 Hz; 1, 10, and 100 kHz. Multiple time-marks can be generated simultaneously. 181 - Multiple time-marks 184 - Separate trigger pulses of 1 and 0.1 sec; 10, 1, and 0.1 ms; 10 and 1 μs. 2901 - Separate trigger pulses, from 5 sec to 0.1 μs. Multiple time-marks can be generated simultaneously.

NOTE: All TM 500 generator outputs are short-proof. All TM 500 plug-in instruments require TM 500-Series Power Module.

REV B, JUN 1978

DESCRIPTION

TEXT CORRECTION

Page 1-4 Table 1-2

Characteristic Shock, Description column

REMOVE: The footnote reference "e"

CHANGE footnote c to read as follows:

^cTested with mechanical load of 9.5 lbs. $\pm 1/2$ lb. evenly distributed. (A three-wide plug-in with three rear support pins and two rear interface ECB's.) Requires retainer clips.

REMOVE: Footnote e.

Date: 8-23-82

Change Reference: M47379

Product: TM5003 Power Module

Manual Part No.: 070-2955-00

DESCRIPTION

EFFECTIVE SERIAL NUMBER: (Std.)B010470 (Option 2) B010500

CHANGE TO:

A11R1621 321-0306-00 RES., FXD, FILM: 15K OHM, 1%, 0.125W

ADD:

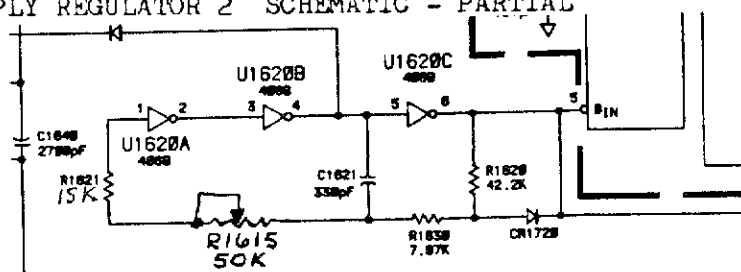
A11R1615 311-1232-00 RES., VAR, NONWIR: 50K OHM, 0.5W

DELETE:

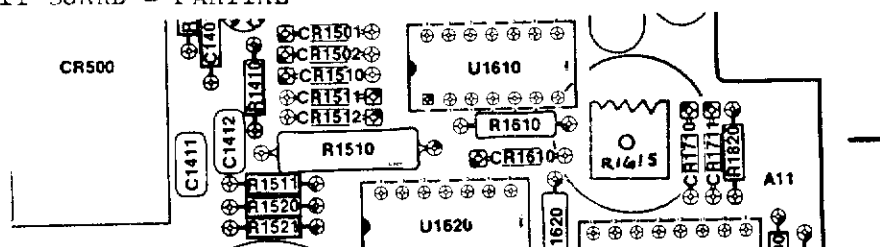
A11W1630 131-0566-00 BUS CONDUCTOR: DUMMY RES, 2.375, 22AWG

These changes are on the A-11 DC Power Supply board which changes to 670-6802-01

DC POWER SUPPLY REGULATOR 2 SCHEMATIC - PARTIAL



A-11 CIRCUIT BOARD - PARTIAL



ADD:

Add to Internal Adjustment Procedure, page 4-5: Delete step 1-f.

2. Adjust Clock Oscillator (SN B010470 and above whenever U1620 is replaced.)
 - a. Connect a probe from the test oscilloscope to the ungrounded end of R1510.
 - b. Adjust R1615 for a frequency of between 40 kHz and 42 kHz at R 1510.
 - c. This completes the internal adjustment procedure.

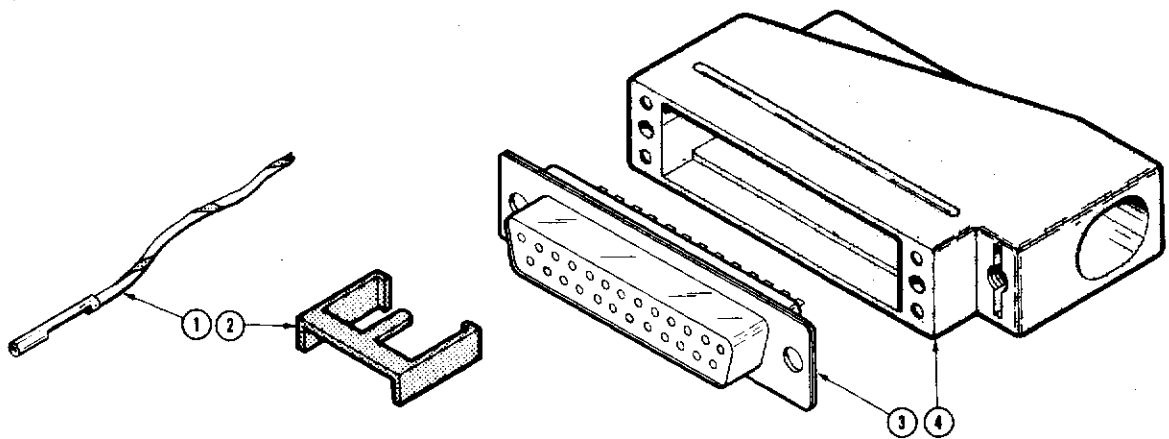
DESCRIPTION

PG 76

CUSTOM INTERFACING INFORMATION

Refer to the following pull-out page and Sections 2, 5, and 6 for information on custom interfacing such as Option 2.

ACCESSORIES FOR OPTION 2



REPLACEABLE PARTS LIST

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Dscnt	Qty	1	2	3	4	5	Name & Description	Mfr	
											Code	Mfr Part No.
-1	175-3332-00			3						. CABLE ASSY,RF:50 OHM COAX,9.0 L,9-2	80009	175-3332-00
	195-0991-00			3						. LEAD,ELECTRICAL:22 AWG,8.0 L,9-2	80009	195-0991-00
-2	214-1593-02			15						. KEY,CONN PLZN:CKT BD CONN	80009	214-1593-02
-3	131-0569-00			1						. CONNECTOR,RCPT:25 PIN,FEMALE	71468	DB25S
-4	200-0821-00			1						. SHLD,ELEC CONN:R ANGLE U/W CONT	71468	DB51213-1

CROSS INDEX—MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, State, Zip
71468	ITT CANNON ELECTRIC	666 E. DYER RD.	SANTA ANA, CA 92702
80009	TEKTRONIX, INC.	P O BOX 500	BEAVERTON, OR. 97077

A10 MAIN INT

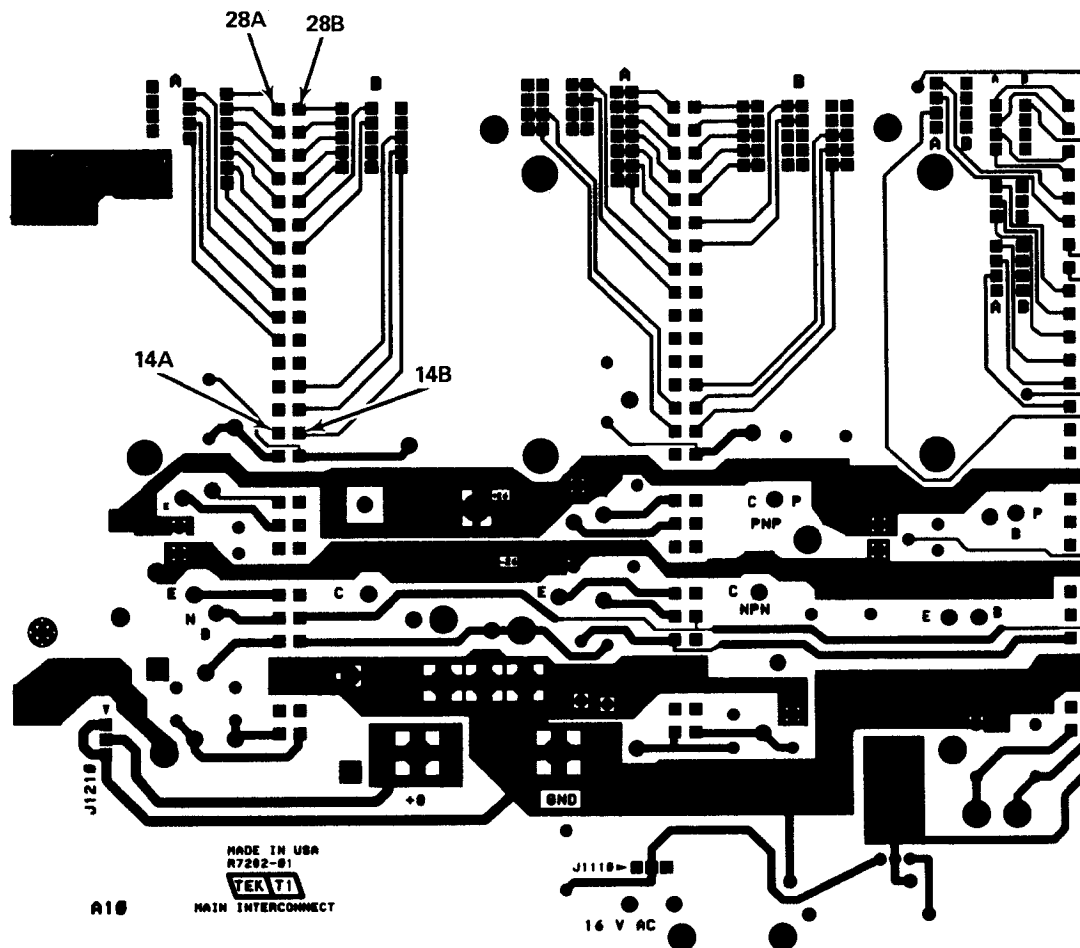
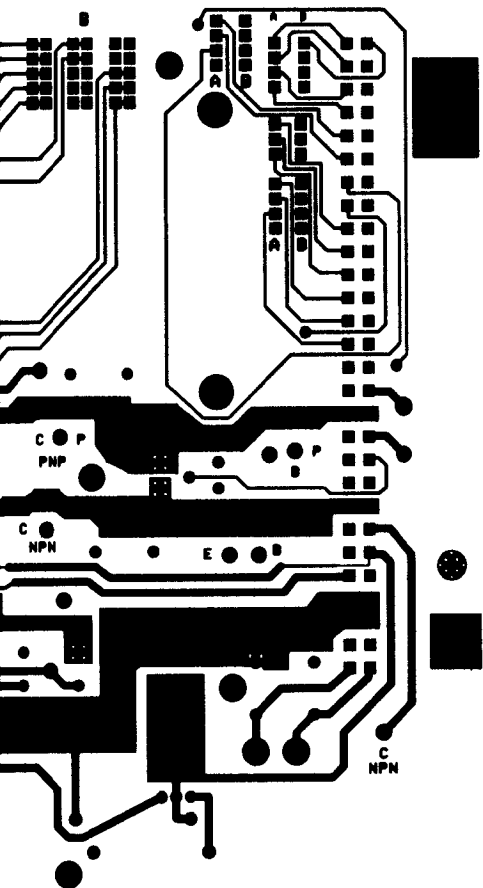


Fig. 8-7. Main Interface Board (backside, Assy A10).

A10 MAIN INTERFACE BOARD CUSTOM INTERFACING AID



de, Assy A10).

THIS ART IS PROVIDED AS AN AID FOR
CUSTOM INTERFACE WIRING, SUCH AS
OPT. 02.

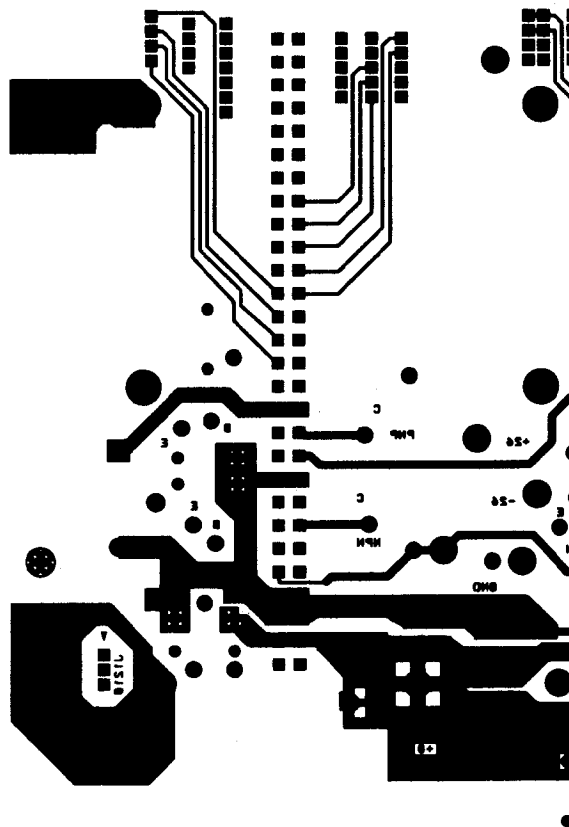
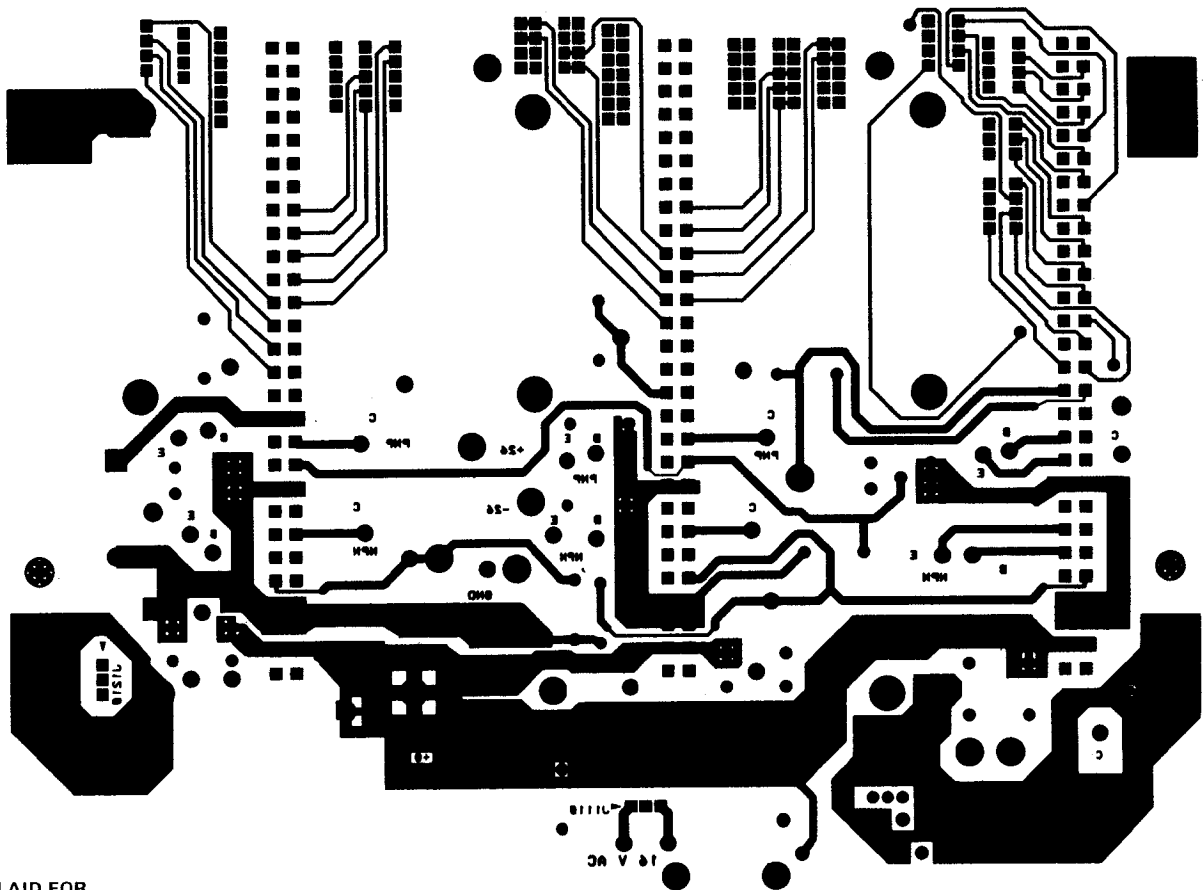


Fig. 8-8. Main Interface Board (rear view)

BOARD CUSTOM INTERFACING AID



ART IS PROVIDED AS AN AID FOR
CUSTOM INTERFACE WIRING, SUCH AS
.02.

Fig. 8-8. Main Interface Board (rear view of frontside, Assy A10).

DESCRIPTION

PG 76

Effective Serial B011155:

REPLACEABLE ELECTRICAL PARTS LIST CHANGE:

CHANGE TO:

Component No.	Tektronix Part No.	Serial/Model No. Eff	Dscont	Name & Description
A14	670-7057-01	B011155		CKT BOARD ASSY:LINE FILTER

The 670-7057-01 is the same as the 670-7057-00 except for:

CHANGE TO:

A14C1101	285-1218-00	B011155		CAP,FXD,PLASTIC:0.27UF,10%,400VDC
----------	-------------	---------	--	-----------------------------------

NOTE To accommodate the new oversized C1101, 1 1/2 inches of insulation sleeving (Tektronix part no. 162-0593-00) is added over the base part of the capacitor and 1 inch of insulation sleeving (Tektronix part no. 162-0914-00) is added to one lead.

DESCRIPTION

PG 75

EFF SN B011245

SCHEMATIC CHANGES

DIAGRAM 2 DC POWER SUPPLY - Partial

- CHANGE: The value of VR1753 from 15V to 12.5V
 The value of R1750 from 91K to 130K
 The value of R1751 from 8.2K to 820 OHM
 The value of R1752 from 22K to 3K
 The value of C1851 from 1uF to 10uF
 The value of R1621 from 15K to 30.1K
 The value of R1620 from 42.2K to 30.1K

MOVE: R1615 as shown below.

CHANGE: The value of R1615 from 50K to 25K

