

SECTION VII REPLACEABLE PARTS

7-1. INTRODUCTION.

7-2. This section contains information for ordering replacement parts. Table 7-1 lists parts in alphabetic order of their reference designators and indicates the description, -hp- part number of each part, together with any applicable notes, and provides the following:

- a. Total quantity used in the instrument (TQ column). The total quantity of a part is given the first time the part number appears.
- b. Description of the part. (See list of abbreviations below.)
- c. Typical manufacturer of the part in a five-digit code. (See Appendix A for list of manufacturers.)
- d. Manufacturer's part number.

7-3. Miscellaneous parts are listed at the end of Table 7-1.

7-4. ORDERING INFORMATION.

7-5. To obtain replacement parts, address order or inquiry to your local Hewlett-Packard Field Office. (See Appendix B for list of office locations.) Identify parts by their Hewlett-Packard part numbers. Include instrument model and serial numbers.

7-6. NON-LISTED PARTS.

7-7. To obtain a part that is not listed, include:

- a. Instrument model number.
- b. Instrument serial number.
- c. Description of the part.
- d. Function and location of the part.

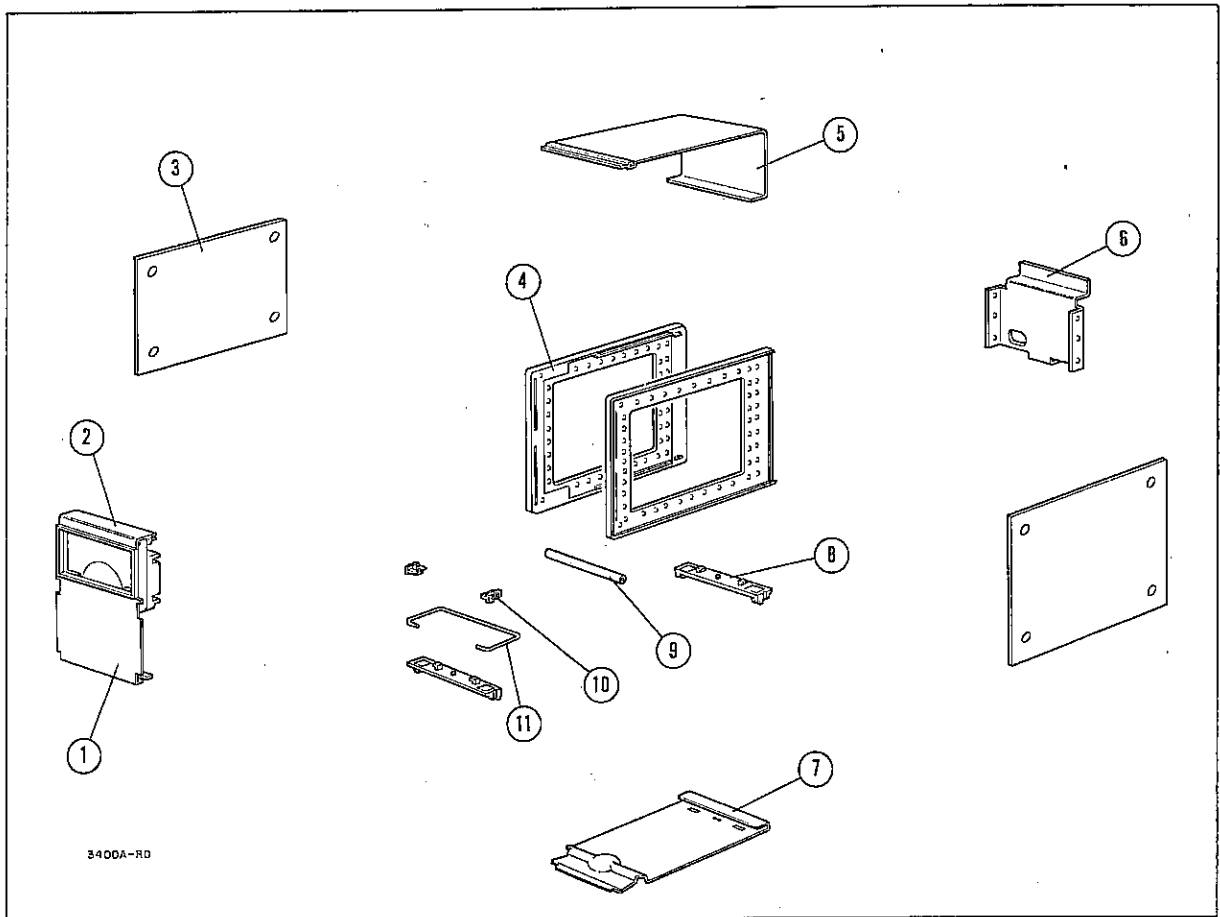
DESIGNATORS

A	= assembly	F	= fuse	MP	= mechanical part	TC	= thermocouple
B	= motor	FL	= filter	P	= plug	V	= vacuum tube, neon bulb, photocell, etc.
BT	= battery	HR	= heater	Q	= transistor	W	= cable
C	= capacitor	IC	= integrated circuit	QCR	= transistor-diode	X	= socket
CR	= diode	J	= jack	R	= resistor	XDS	= lampholder
DL	= delay line	K	= relay	RT	= thermistor	XF	= fuseholder
DS	= lamp	L	= inductor	S	= switch	Z	= network
E	= misc electronic part	M	= meter	T	= transformer		

ABBREVIATIONS

Ag	= silver	ID	= inside diameter	ns	= nanosecond (s) = 10 ⁻⁹ seconds	sl	= slide
Al	= aluminum	impq	= impregnated	nsr	= not separately replaceable	SPDT	= single-pole double-throw
A	= ampere (s)	incd	= incandescent			SPST	= single-pole single-throw
Au	= gold	ins	= insulation (ed)	Ω	= ohm (s)	Ta	= tantalum
C	= capacitor	k Ω	= kilohm (s) = 10 ⁺³ ohms	obd	= order by description	TC	= temperature coefficient
cer	= ceramic	kHz	= kilohertz = 10 ⁺³ hertz	OD	= outside diameter	TiO ₂	= titanium dioxide
coef	= coefficient	L	= inductor	p	= peak	tog	= toggle
com	= common	lin	= linear taper	pc	= printed circuit	tol	= tolerance
comp	= composition	log	= logarithmic taper	pF	= picofarad (s) = 10 ⁻¹² farads	trim	= trimmer
conn	= connection	m	= milli = 10 ⁻³	piv	= peak inverse voltage	TSTR	= transistor
dep	= deposited	mA	= milliampere (s) = 10 ⁻³ amperes	p/o	= part of	V	= volt (s)
DPDT	= double-pole double-throw	MHz	= megahertz = 10 ⁺⁶ hertz	pos	= position (s)	vacw	= alternating current working voltage
DPST	= double-pole single-throw	M Ω	= megohm (s) = 10 ⁺⁶ ohms	poly	= polystyrene	var	= variable
elect	= electrolytic	met film	= metal film	pot	= potentiometer	vdcw	= direct current working voltage
encap	= encapsulated	mfr	= manufacturer	P-p	= peak-to-peak		
F	= farad (s)	mtg	= mounting	ppm	= parts per million	W	= watt (s)
FET	= field effect transistor	mV	= millivolt (s) = 10 ⁻³ volts	prec	= precision (temperature coefficient, long term stability, and/or tolerance)	w/	= with
fxd	= fixed	μ	= micro = 10 ⁻⁶	R	= resistor	wiv	= working inverse voltage
GaAs	= gallium arsenide	μ V	= microvolt (s) = 10 ⁻⁶ volts	Rh	= rhodium	w/o	= without
GHz	= gigahertz = 10 ⁺⁹ hertz	my	= Mylar	rms	= root-mean-square	ww	= wirewound
gd	= guard (ed)	nA	= nanoampere (s) = 10 ⁻⁹ amperes	rot	= rotary	*	= optimum value selected at factory, average value shown (part may be omitted)
Ge	= germanium	NC	= normally closed	Se	= selenium	**	= no standard type number assigned (selected or special type)
grd	= ground (ed)	Ne	= neon	sect	= section (s)		
H	= henry (ies)	NO	= normally open	Si	= silicon		
Hg	= mercury	NPO	= negative positive zero (zero temperature coefficient)				
Hz	= hertz (cycle (s) per second)						

(R) Dupont de Nemours



3400A-RD

INDEX NO.	DESCRIPTION	QUANTITY	-hp- PART NO.
1	Front Panel	1	03400-00204
2	Meter Trim 1/3 module	1	5020-5388
3	Side Cover 6 x 11 sm	2	5000-8565
4	Frame Assembly	2	5060-0703
5	Top Cover (with handle)	1	03400-64103
6	Rear Panel	1	03400-00203
7	Bottom Cover 5 x 11 sm	1	5000-8571
8	Foot Assembly 1/3 module	2	5060-0727
9	Spacer 1/3 module	1	5020-6852
10	Hinge	2	5040-0700
11	Tilt Stand 1/3 module	1	1490-0031

Figure 7-1. Modular Cabinet

Table 7-1. Replaceable Parts

REFERENCE DESIGNATOR	-hp- PART NO.	TQ	DESCRIPTION	MFR.	MFR. PART NO.
A1	03400-66501		Assembly: Input Attenuator Board		
A2	03400-66502		Assembly: Impedance Converter Board		
A3	03400-63401		Assembly: Second Attenuator		
A4	03400-66503		Assembly: Amplifier Board		
A5	1990-0223		Assembly: Photoconductor Chopper Part of A6. Note: matched neon subassembly (DS501 and DS502) available, -hp- Part No. 1990-0224		
A6	03400-66508		Assembly: Chopper Amplifier Board		
A7	03400-66510		Assembly: Power Supply Board		
C1	0180-0152		C: fxd Al elect 2X40 μ F +30% -10% 200 vdc 200 vdcw	56289	D36975
C2	0180-0148	1	C: fxd Al elect 890 μ F -10% +100% 15 vdcw	00853	Type PL1
C3A, B	0160-3333	2	C: fxd cer 5000 pF \pm 20%	08988	THD-8-502M-1.4KV
C4	0160-0379	1	C: fxd mica 4775 pF \pm 10% 500 vdcw	72982	633-010
C5 thru C100			Not assigned		
C101	0170-0022	1	C: fxd my 0.1 μ F \pm 20% 600 vdcw	09134	Type 27
C102	0132-0003	1	C: var poly 0.7 - 3.0 pF	72982	535-016-4R
C103	0150-0058	1	C: fxd cer 2.2 pF 600 vdcw	72982	301000 C0J0 229C
C104 thru C200			Not assigned		
C201	0170-0019	1	C: fxd my 0.1 μ F \pm 5% 200 vdcw	56289	192P10452-PTS
C202	0150-0031	2	C: fxd TI 2 pF \pm 5% 500 vdcw	78488	Type GA 2 pF 5%
C203	0180-0060	2	C: fxd elect 200 μ F -10% +100% 3 vdcw	56289	30D116A1
C204	0180-0089	3	C: fxd elect 10 μ F 150 vdcw	56289	30D218A1
C205*	0180-0039	4	C: fxd Al elect 100 μ F +75% -10% 12 vdcw	56289	107G012CC2-DSM
C206	0140-0201	1	C: fxd mica 12 pF \pm 5% 500 vdcw	04062	DM15C120J
C207	0180-0061	1	C: fxd elect 100 μ F -10% +100% 15 vdcw	56289	30D172A1
C208	0150-0093	3	C: fxd cer 0.01 μ F -20% +80% 100 vdcw	91418	TA obd
C209 thru C301			Not assigned		
C302*	0160-0987	1	C: fxd mica 12 pF \pm 5% 500 vdcw	72136	obd
C303	0121-0039	1	C: var 8-50 pF	72982	557-062-U2PO-34R
C304*	0160-0196	1	C: fxd mica 24 pF \pm 5%	72136	obd
C305*	0160-0987	2	C: fxd mica 12pF \pm 5% 500 vdcw	72136	obd
C306 thru C401			Not assigned		
C402	0180-0063	1	C: fxd elect 500 μ F -10% +100% 3 vdcw	56289	30D120A1
C403	0150-0052	1	C: fxd cer 0.05 μ F \pm 20% 400 vdcw	72982	847-000-Z5UO-503M
C404	0140-0201	1	C: fxd mica 12 pF \pm 5% 500 vdcw	04062	DM15C120J
C405	0130-0018	1	C: var cer 1.5-7 pF 500 vdcw	72982	557-019-COPO-10R
C406	0180-0137	1	C: fxd Ta elect 100 μ F \pm 20% 10 vdcw	56289	150D107X0010R2
C407	0180-0060	2	C: fxd elect 200 μ F -10% +100% 3 vdcw	56289	30D116A1
C408	0160-0127	2	C: fxd cer 1 μ F \pm 20% 25 vdcw	56289	5C13
C409			Not assigned		
C410	0140-0225	2	C: fxd mica 300 pF \pm 1% 300 vdcw	04062	DM15F301J 300 V
C411	0180-0224	2	C: fxd elect 10 μ F 10 vdcw	56289	30D106G015BA4
C412	0180-0039	2	C: fxd elect 100 μ F 12 vdcw	56289	30D154A1
C413	0180-0142	2	C: fxd elect 20 μ F -10% +100% 25 vdcw	56289	Type 40D
C414	0140-0196	1	C: fxd mica 150 pF \pm 5% 300 vdcw	04062	DM15F151J 300 V
C415	0180-0142	1	C: fxd elect 20 μ F -10% +100% 25 vdcw	56289	Type 40D obd
C416 thru C419			Not assigned		
C420	0150-0096	1	C: fxd cer 0.05 μ F 100 vdcw	91418	TA obd
C421	0140-0225		C: fxd mica 300 pF \pm 1% 300 vdcw	04062	DM15F301J300V
C422	0160-0127		C: fxd cer 1 μ F \pm 20% 25 vdcw	56289	5C13 obd

Table 7-1. Replaceable Parts (Cont'd)

REFERENCE DESIGNATOR	-hp- PART NO.	TQ	DESCRIPTION	MFR.	MFR. PART NO.
C423			Not assigned		
C424	0160-0128	1	C: fxd cer 2.2 μ F $\pm 20\%$ 25 vdcw	56289	5C13 obd
C425, C426	0140-0176	2	C: fxd mica 100 pF $\pm 2\%$ 300 vdcw	04062	DM15F101G 300V
C427	0180-0104	1	C: fxd elect 200 μ F 15 vdcw	56289	30D174A1
C428 thru C600			Not assigned		
C601	0180-0081	1	C: fxd Ta elect 50 μ F $+20\%$ -15% 10 vdcw	10411	MTA-50-10
C602	0180-0032	1	C: fxd elect 10 μ F $+75\%$ -10% 12 vdcw	56289	30D106G012 BA2-DSM
C603, C604	0150-0084	2	C: fxd cer 0.1 μ F $+80\%$ -20% 50 vdcw	56289	33C41
C605	0180-0111	1	C: fxd elect 2 μ F 25 vdcw	56289	40D173A2
C606	0180-0224		C: fxd elect 10 μ F 10 vdcw	56289	30D106G015BA4
C607	0150-0093		C: fxd cer 0.01 μ F $+80\%$ -20% 100 vdcw	91418	TA obd
C608	0180-0022	1	C: fxd Ta elect 3.9 μ F 35 vdcw	05397	K3R9J35KS
C609	0180-0039		C: fxd elect 100 μ F 12 vdcw	56289	30D154A1
C610, C611			Not assigned		
C612	0180-0156	1	C: fxd Al elect 880 μ F $+100\%$ -10% 1 vdcw	56289	Type 34D obd
C613	0180-0039		C: fxd elect 100 μ F 12 vdcw	56289	30D154A1
C614 thru C700			Not assigned		
C701	0170-0024	2	C: fxd my 0.022 μ F $\pm 20\%$ 200 vdcw	56289	192P22302
C702	0180-0089		C: fxd elect 10 μ F $+100\%$ -10% 150 vdcw	56289	30D218A1
C703	0160-0166	1	C: fxd my 0.068 μ F $\pm 10\%$ 200 vdcw	56289	192P68392-PTS
C704	0180-0089		C: fxd elect 10 μ F 100% -10% 150 vdcw	56289	30D218A1
C705	0150-0012	1	C: fxd cer 0.01 μ F $\pm 20\%$ 1000 vdcw	56289	H1038 obd
C706, C707	0180-0050	2	C: fxd elect 40 μ F $+100\%$ -15% 50 vdcw	56289	D32538
C708 thru C709	0180-0105	1	C: fxd elect 50 μ F 25 vdcw	56289	S97441
C710	0180-0098	1	C: fxd elect 100 μ F $\pm 20\%$ 20 vdcw	56289	150D107X0020S2-DYS
C711	0160-2192	1	C: fxd my 0.082 μ F $\pm 5\%$ 200 vdcw	56289	192P82352-PTS
C712	0180-0282	1	C: fxd Al elect 35 μ F $+75\%$ -10% 250 vdcw	56289	D38270
CR201	1902-0045	1	Diode: avalanche 732 V $\pm 2\%$ 400 mW	04713	SZ10939-144
CR202	1901-0025	11	Diode: Si 100 piv	93332	D3072
CR203 thru CR400			Not assigned		
CR401	1901-0025		Diode: Si 100 piv	93332	D3072
CR402	1901-0040	1	Diode: Si	03877	SG 5050
CR403	1902-0040	1	Diode: avalanche 14 V $\pm 5\%$ 400 mW	04713	SZ10939-224
CR404, CR405			Not assigned		
CR406	1901-0025		Diode: Si 100 piv	93332	D3072
CR407, CR408	1910-0016	2	Diode: Ge 60 piv	11711	GD 150
CR409 thru CR600			Not assigned		
CR601	1902-0046	2	Diode: breakdown 7.15 V $\pm 10\%$	04713	SZ10939-139
CR602	1910-0016		Diode: Ge 60 piv	11711	GD 150
CR603, CR604	1901-0025		Diode: Si 100 piv	93332	D3072
CR605 thru CR700			Not assigned		
CR701, CR702	1901-0028	2	Diode: Si 0.5 amp 400 piv	01841	obd
CR703 thru CR706	1901-0025		Diode: Si 100 piv	93332	D3072

Table 7-1. Replaceable Parts (Cont'd)

REFERENCE DESIGNATOR	-hp- PART NO.	TQ	DESCRIPTION	MFR.	MFR. PART NO.
CR707 thru CR710			Not assigned		
CR711, CR712	1901-0158	2	Diode: Si 200 piv	04713	SR1358-3
CR713, CR714, CR720	1901-0025		Diode: Si 100 piv	93332	D3072
CR715	1902-3223	1	Diode: Si breakdown 17.4 V \pm 2% 400 mW	04713	SZ10939-225
CR716, CR717	1901-0045	2	Diode: Si 100 piv	86684	34935
CR718	1902-0046		Diode: breakdown 7.15 V \pm 10% 400 mW	04713	SZ10939-139
CR719	1901-0028		Diode: Si 400 piv	01841	obd
DS1	1450-0419	1	Light: Indicator - Lamp No. A165	72765	599-237-WHITE
F1	2110-0004	1	Fuse: cartridge 1/4 amp 250 V	75915	3AG/CAT. 312. 250
J1	1250-0118	1	Connector: BNC	91737	8427
J2	1251-0205	1	Jack: telephone open circuit	82389	2J-1432
J3	1251-2357	1	Connector: AC power cord receptacle	82389	EAC-301
J4	1251-0208	1	Connector: PC 22 contact	95354	91-8922-1500-00
J5	1251-0194	1	Connector: PC 15 contact	95354	91-8915-1113-00
M1	1120-0320	1	Meter: full scale 3 mA	-hp-	
M1	1120-0308	1	Meter: dB scale uppermost (Option 01) only	-hp-	
Q1	1850-0098	1	TSTR: Ge PNP selected	04713	SP-776
Q2, Q3	1850-0038	2	TSTR: Ge PNP	86684	34879
Q4 thru Q200			Not assigned		
Q201	1854-0215	1	TSTR: Si NPN	04713	SPS 3611
Q202 thru Q400			Not assigned		
Q401 thru Q403	1853-0010		TSTR: Si PNP	04713	SM4713
Q404	1854-0005	2	TSTR: Si PNP 2N708	04713	obd
Q405	1853-0010		TSTR: Si PNP	04713	SM4713
Q406	1854-0005		TSTR: Si Ω NQ 2N708	04713	obd
Q407 thru Q600			Not assigned		
Q601 thru Q604	1853-0036	4	TSTR: Si PNP 2N3906	04713	2N3906-5
Q605	1854-0033	1	TSTR: Si NPN 2N3391	24446	2N3391
Q606	1853-0016	1	TSTR: Si PNP 2N3638	07263	2N3638
Q607 thru Q700			Not assigned		
Q701, Q702	1853-0066	2	TSTR: Si PNP	12040	ST62122
Q703, Q704	1853-0086	2	TSTR: Si PNP	04713	SPS3322
Q705	1854-0215	1	TSTR: Si NPN	04713	SPS3611
Q706	1854-0022	1	TSTR: Si NPN 2N2102	03877	ST 1657
R1	0687-3331	1	R: fxd comp 33 k Ω \pm 10% 1/2 W	01121	EB 3331
R2	0687-2211	1	R: fxd comp 220 Ω \pm 10% 1/2 W	01121	EB 2211
R3*	0758-0070	1	R: fxd met flm 1200 Ω \pm 5% 1/2 W	75042	CE 57 obd
R4	2100-0805	1	R: var ww lin 50 Ω \pm 20% 2 W	71450	Series 117-SPC
R5	0812-0048	1	R: fxd ww 80 Ω \pm 3% 1/2 W	14193	SA10 obd
R6	2100-0721	1	R: var ww 30 Ω \pm 20%	71450	Series 112-SPL
R7	2100-0412	1	R: var ww lin 200 Ω \pm 20% 2 W	71450	Type 117 obd
R8*	0686-3915	1	R: fxd comp 390 Ω \pm 5% 1/2 W	01121	EB 3915
R9	0684-4741	1	R: fxd comp 470 k Ω \pm 10% 1/4 W	01121	EB 4741
R10	0683-3635	1	R: fxd comp 36 k Ω \pm 5% 1/4 W	01121	CB 3635
R11 thru R100			Not assigned		

Table 7-1. Replaceable Parts (Cont'd)

REFERENCE DESIGNATOR	-hp- PART NO.	TQ	DESCRIPTION	MFR.	MFR. PART NO.
R101	0698-4128	1	R: fxd met flm 10M ± 1/4 % 1/2 W Not assigned	56289	42DET-2
R102		1	R: fxd met flm 9.9 kΩ ± 1% 1/8 W	75042	CEA T-O obd
R103	0698-6204	1	R: var comp lin 250Ω ± 20% 1/3 W	71450	UPM 70RE (-hp-)
R104	2100-0128		Not assigned		
R105 thru R200					
R201	0683-3935	1	R: fxd comp 39 kΩ ± 5% 1/4 W	01121	CB 3935
R202	0683-4715	1	R: fxd comp 470Ω ± 5% 1/4 W	01121	CB 4715
R203	0683-3355	1	R: fxd comp 3.3M ± 5% 1/4 W	01121	CB 3335
R204	0683-1035	4	R: fxd comp 10 kΩ ± 5% 1/4 W	01121	CB 1035
R205	0683-8225	2	R: fxd comp 8200Ω ± 5% 1/4 W	01121	CB 8225
R206	0683-8215	1	R: fxd comp 820Ω ± 5% 1/4 W	01121	CB 8215
R207	0727-0439	1	R: fxd depc 30.1 kΩ ± 1%	91637	DC5 1/2
R208	0683-2715	1	R: fxd comp 270Ω ± 5% 1/4 W	01121	CB 2715
R209	0683-1015	1	R: fxd comp 100Ω ± 5% 1/4 W	01121	CB 1015
R210			Not assigned		
R211	0683-2725	3	R: fxd comp 2700Ω ± 5% 1/4 W	01121	CB 2725
R212	0727-0136	1	R: fxd depc 5.03 kΩ ± 1% 1/2 W	56289	428E
R213	0727-0126	1	R: fxd depc 3.266 kΩ ± 1% 1/2 W	91637	DCS 1/2
R214 thru R300			Not assigned		
R301	0757-0715	1	R: fxd met flm 150Ω ± 1% 1/4 W	91637	MFF-1/4-T1
R302	0698-4119	5	R: fxd met flm 410.26Ω ± 0.1% 1/4 W	91637	MFF 1/4 T-3
R303	0698-4118	4	R: fxd met flm 277.48Ω ± 0.1% 1/4 W	91637	MFF 1/4 T-3
R304	0698-4119		R: fxd met flm 410.26Ω ± 0.1% 1/4 W	91637	MFF 1/4 T-3
R305	0698-4118		R: fxd met flm 277.48Ω ± 0.1% 1/4 W	91637	MFF 1/4 T-3
R306	0698-4119		R: fxd met flm 410.26Ω ± 0.1% 1/4 W	91637	MFF 1/4 T-3
R307	0698-4118		R: fxd met flm 277.48Ω ± 0.1% 1/4 W	91637	MFF 1/4 T-3
R308	0698-4119		R: fxd met flm 410.26Ω ± 0.1% 1/4 W	91637	MFF 1/4 T-3
R309	0698-4118		R: fxd met flm 277.48Ω ± 0.1% 1/4 W	91637	MFF 1/4 T-3
R310	0698-4119		R: fxd met flm 410.26Ω ± 0.1% 1/4 W	91637	MFF 1/4 T-3
R311	0698-4117	1	R: fxd met flm 189.72Ω ± 0.1% 1/4 W	91637	MFF 1/4 T-3
R312	0683-5115	2	R: fxd comp 510Ω ± 5% 1/4 W	91637	MFF 1/4 T-3
R313 thru R400			Not assigned		
R401	0683-3025	2	R: fxd comp 3000Ω ± 5% 1/4 W	01121	CB 3025
R402	0683-1035		R: fxd comp 10 kΩ ± 5% 1/4 W	01121	CB 1035
R403	0683-2405	1	R: fxd comp 24Ω ± 5% 1/4 W	01121	CB 2405
R404	0757-0346	2	R: fxd met oxide 10Ω ± 1% 1/8 W	75042	CEA T-O obd
R405	0683-1515	1	R: fxd comp 150Ω ± 5% 1/4 W	01121	CB 1515
R406	0683-3925	2	R: fxd comp 3900Ω ± 5% 1/4 W	01121	CB 3925
R407	0727-0065	1	R: fxd depc 300Ω ± 1% 1/2 W	56289	428E
R408	0683-1025	2	R: fxd comp 1000Ω ± 5% 1/4 W	01121	CB 1025
R409	0683-1005	2	R: fxd comp 10Ω ± 5% 1/4 W	01121	CB 1005
R410	0683-1025	2	R: fxd comp 1000Ω ± 5% 1/4 W	01121	CB 1025
R411 thru R415			Not assigned		
R416	0683-5115	7	R: fxd comp 510Ω ± 5% 1/4 W	01121	CB 5115
R417	0683-6825	1	R: fxd comp 6800Ω ± 5% 1/4 W	01121	CB 6825
R418	0683-1825	1	R: fxd comp 1800Ω ± 5% 1/4 W	01121	CB 1825
R419*	0683-2715	1	R: fxd comp 270 Ω ± 5% 1/4 W Factory selected comp: typical value given	01121	CB 2715
R420	0683-6825		R: fxd comp 6800Ω ± 5% 1/4 W	01121	CB 6825
R421, R422 R423	0683-3325	2	Not assigned R: fxd comp 3300Ω ± 5% 1/4 W	01121	CB 3325

Table 7-1. Replaceable Parts (Cont'd)

REFERENCE DESIGNATOR	-hp- PART NO.	TQ	DESCRIPTION	MFR.	MFR. PART NO.
R424	0683-5135	1	R: fxd comp 51 kΩ ±5% 1/4 W	01121	CB 5135
R425	0683-1035		R: fxd comp 10 kΩ ±5% 1/4 W	01121	CB 1035
R426	0757-0346		R: fxd met oxide 10Ω ±1% 1/8 W	75042	CEA T-O obd
R427			Not assigned		
R428	0683-4305	2	R: fxd comp 43Ω ±5% 1/4 W	01121	CB 4305
R429	0757-0345	1	R: fxd met oxide 302Ω ±1% 1/8 W	19701	N60 obd
R430			Not assigned		
R431	0683-3335	2	R: fxd comp 33 kΩ ±5% 1/4 W	01121	CB 3335
R432	0683-4305		R: fxd comp 43Ω ±5% 1/4 W	01121	CB 4305
R433	0758-0073	1	R: fxd met film 24 kΩ ±5% 1/2 W	01121	CB 0033
R434, R435 R436 thru R600	0758-0033	2	R: fxd met film 2000Ω ±5% 1/2 W Not assigned	01121	CB 0033
R601	0757-0454	3	R: fxd met film 33.2 kΩ ±1% 1/8 W	75042	CEA T-O obd
R602, R603	0757-0459	2	R: fxd met film 56.2 kΩ ±1% 1/8 W	75042	CEA T-O obd
R604, R605	0683-6835	3	R: fxd comp 68 kΩ ±5% 1/4 W	01121	CB 6835
R606	0683-3325		R: fxd comp 3300Ω ±5% 1/4 W	01121	CB 3325
R607, R608	0683-1035		R: fxd comp 10 kΩ ±5% 1/4 W	01121	CB 1035
R609	0683-1025	2	R: fxd comp 1000Ω ±5% 1/4 W	01121	CB 1025
R610	0683-3915	1	R: fxd comp 390Ω ±5% 1/4 W	01121	CB 3915
R611 thru R614			Not assigned		
R615	0683-3335		R: fxd comp 33 kΩ ±5% 1/4 W	01121	CB 3335
R616	0683-2235	1	R: fxd comp 22 kΩ ±5% 1/4 W	01121	CB 2235
R617	0758-0043	1	R: fxd met film 1800Ω ±5% 1/2 W	75042	CE 57
R618	0727-0100	1	R: fxd depc 1000Ω ±1% 1/2 W	56289	428E
R619	0727-0063	1	R: fxd depc 292.4Ω ±1% 1/2 W	56289	428E
R620	0683-1245	1	R: fxd comp 120 kΩ ±5% 1/4 W	01121	CB 1245
R621	0727-0013	1	R: fxd depc 24.3Ω ±1% 1/2 W	56289	428E
R622	0683-3925		R: fxd comp 3900Ω ±5% 1/4 W	01121	CB 3925
R623	0683-3945	1	R: fxd comp 390 kΩ ±5% 1/4 W	01121	CB 3945
R624	0683-6835		R: fxd comp 68 kΩ ±5% 1/4 W	01121	CB 6835
R625	0683-6835		R: fxd comp 68 kΩ ±5% 1/4 W	01121	CB 6835
R626 thru R629			Not assigned		
R630	0683-3025		R: fxd comp 3000Ω ±5% 1/4 W	01121	CB 3025
R631, R632 R633	0757-0454		R: fxd met film 33.2 kΩ ±1% 1/8 W Not assigned	75042	CEA T-O obd
R634			Not assigned		
R635	0698-3455		R: fxd met film 261 kΩ ±1% 1/8 W	75042	CEA T-O obd
R636 thru R700			Not assigned		
R701, R702 R703	0757-0854	2	R: fxd met film 56.2 kΩ ±1% 1/2 W Not assigned	91637	MFF 1/2 T-1 obd
R704	0758-0064	1	R: fxd met film 36 kΩ ±5% 1/2 W	75042	obd
R705	0683-2035	1	R: fxd comp 20 kΩ ±5% 1/4 W	01121	CB 2035
R706			Not assigned		
R707			Not assigned		
R708	0683-1005		R: fxd 10Ω ±5% 1/4 W	01121	CB 1005
R709	0683-0335	1	R: fxd comp 3.3Ω ±5% 1/4 W	01121	CB 33G5
R710	0683-4725	2	R: fxd comp 4700Ω ±5% 1/4 W	01121	CB 4725
R711	0687-1831	1	R: fxd comp 18 kΩ ±10% 1/2 W	01121	CB 1831
R712	0687-2241	1	R: fxd comp 220 kΩ ±10% 1/2 W	01121	EB 2241
R713	0686-2225	1	R: fxd comp 2.2 kΩ ±5% 1/2 W	01121	EB 2225
R714			Not assigned		
R715	0683-4705		R: fxd comp 47Ω ±5% 1/4 W	01121	CB 4705

Table 7-1. Replaceable Parts (Cont'd)

REFERENCE DESIGNATOR	-hp- PART NO.	TQ	DESCRIPTION	MFR.	MFR. PART NO.
R716	0727-0188	1	R: fxd depc 38.95 k Ω \pm 1/2% 1/2 W	91637	DCS 1/2 obd
R717	0727-0153	1	R: fxd depc 9.1 k Ω \pm 1% 1/2 W	56289	428E
R718	0683-3335		R: fxd comp 33 k Ω \pm 5% 1/4 W	01121	CB 3335
R719			Not assigned		
R720	0683-5615	1	R: fxd comp 560 Ω \pm 5% 1/4 W	01121	CB 5615
R721	0683-6625		R: fxd comp 6800 Ω \pm 5% 1/4 W	01121	CB 6825
R722	0683-2725		R: fxd comp 2700 Ω \pm 5% 1/4 W	01121	CB 2725
R723	0684-1001	1	R: fxd comp 10 Ω \pm 10% 1/4 W	01121	CB 1001
R724	0683-4725		R: fxd comp 4700 Ω \pm 5% 1/4 W	01121	CB 4725
R725 thru R729			Not assigned		
R730	0698-4121		R: fxd met flm 11.3 k Ω \pm 1% 1/8 W	14674	C4 obd
R731	0698-3258		R: fxd met flm 5.36k Ω \pm 1% 1/8 W	14674	C4 T-0
R732	0683-2725		R: fxd comp 2700 Ω \pm 5% 1/4 W	01121	CB 2725
S1	3101-0036	1	Switch: toggle SPST 3 amp 250 V	88140	8928K61
S2	3101-1234	1	Switch: slide, marked 115/230 V	82389	11A-1242A
S3 thru S300			Not assigned		
S301	3100-0358	1	Switch: rotary 3 sect 12 pos	76854	obd
T1	9100-1440	1	Transformer	-hp-	
TC401, TC402	0853-0003	2	Thermocouples -- matched pair	11403	obd
V201	1921-0017	1	Electron Tube: 7586 nuvistor triode	86684	7586 obd
W1	8120-1348	1	Power Cord 7-1/2 ft	70903	KHS-7041
XF1	1400-0084	1	Fuseholder: extractor post-type 2-5/64" long	75915	342014
XV201	1200-0086	1	Socket: nuvistor 5-pin	71785	133-65-11-026
	1200-0044		Socket: transistor	97313	1ST1502-3
			<u>MISCELLANEOUS</u>		
	0370-0077	1	Knob: bar (with one arrow)	-hp-	
	1200-0043	1	Insulator: transistor anodized aluminu	000LB	obd
	1200-0081	1	Insulator: transistor nylon .235" od.	26365	974 Special
	1520-0002	1	Plate: capacitor mounting	56137	obd
	1520-0003	1	Plate: capacitor mounting	37942	Type BP2 obd
	03400-01202	1	Clamp: capacitor mounting	-hp-	
	03400-01204	1	Bracket: ground	-hp-	
	03400-61601	1	Cable assembly: amplifier input	-hp-	
	03400-61602	1	Cable assembly: chopper input	-hp-	
	03400-61603	1	Cable assembly: input attenuator	-hp-	
	03400-69501	1	Shock mount impedance converter	-hp-	
	1200-0044	1	Socket: TSTR	97913	Type M7 (PB)obd
	03400-90008	1	Manual: Operating and Service	-hp-	