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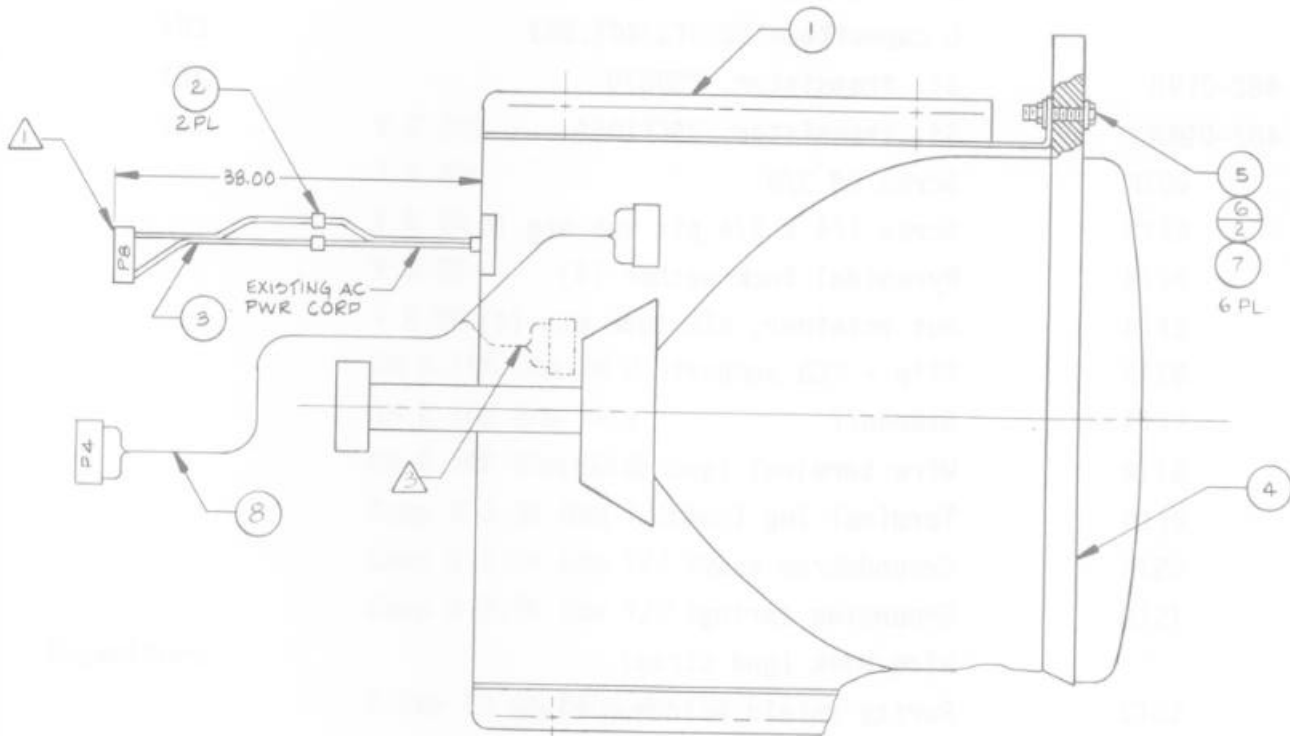


FLIPPERSPILL.COM

COLOR MONITOR ASSEMBLY

DRAWING NUMBER 800-0362

ITEM NO.	PART NO.	QTY. REQD.			DESCRIPTION	REF DES.
		-00	-01	-02		
1	See Below					
2	800-0369-01	-	-	1	Assy. Harness AC "Z"	
3	800-0369-00	1	1	-	Assy. Harness AC "Z"	
4	252-0175-00	1	1	1	Monitor Mounting Board	
5	282-0017-24	6	6	6	HEX HD Bolt 1/4-20 x 1.500 LG	
6	283-0060-34	12	12	12	Washer, 1/4 Flat	
7	283-0070-05	6	6	6	Nut-1/4 HEX Self-Locking	
8	800-0361-00	1	1	1	Assy. Harn. Video INTF	
9	470-0221-00	3	3	3	RES 220 OHM 1/4 W	See SH 2
10	470-0302-00	3	3	3	RES 3K 1/4 W	See SH 2
11	200-0019-00	-	1	-	CRT CL 19 IN. VT MT	
	200-0022-00	-	1	-	W/G CLR 19 IN. VT MT	
1	200-0019-00	1	-	-	CRT CL 19 IN. VT MT	
	200-0091-00	-	-	1	MON 19 IN. Vert. MT W/G	
12	280-0005-00	-	-	1	Cable Tie	
13	280-0327-00	-	-	1	Base Tie Wrap	



OUTSIDE OF THE PCB ASSY

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des.</u>
200-0667	Picture tube 19"	
200-0068	Deflection yoke	
113-0009	PC magnet	
560-0096	Flyback trans.	
	HVR	
	UNF resistor 220 Ohm, 25W K	R05
	C capacitor 150 pf, AC1.5KV	C04
482-0198	Si. transistor, 2SD870	X01
482-0143	Si. transistor, 2SC1106A	X02
	Screw #8 3/8	
	Screw 1/4 x 3/4 pix tub mtg (4)	
	Pyramidal lock washer (4)	
	Nut retainer, pix tube mtg (4)	
	Clip - PCB support	
	Standoff	
	Wire terminal (gnd strap)	
	Terminal lug (gnd)	
	Groundstrap assy	
	Grounding spring	
	Wire hook (gnd strap)	
	Purity shield holddown clamp	
	Support brkt RH	
	Support brkt LH	
	Chassis base	
	Yoke wedge (3)	
PURITY SHIELD ASSY		
180-0022	Degaussing coil	D911, D912
481-0225	Rectifier 1 amp 600 V (2)	
	Pin Terminal (2)	

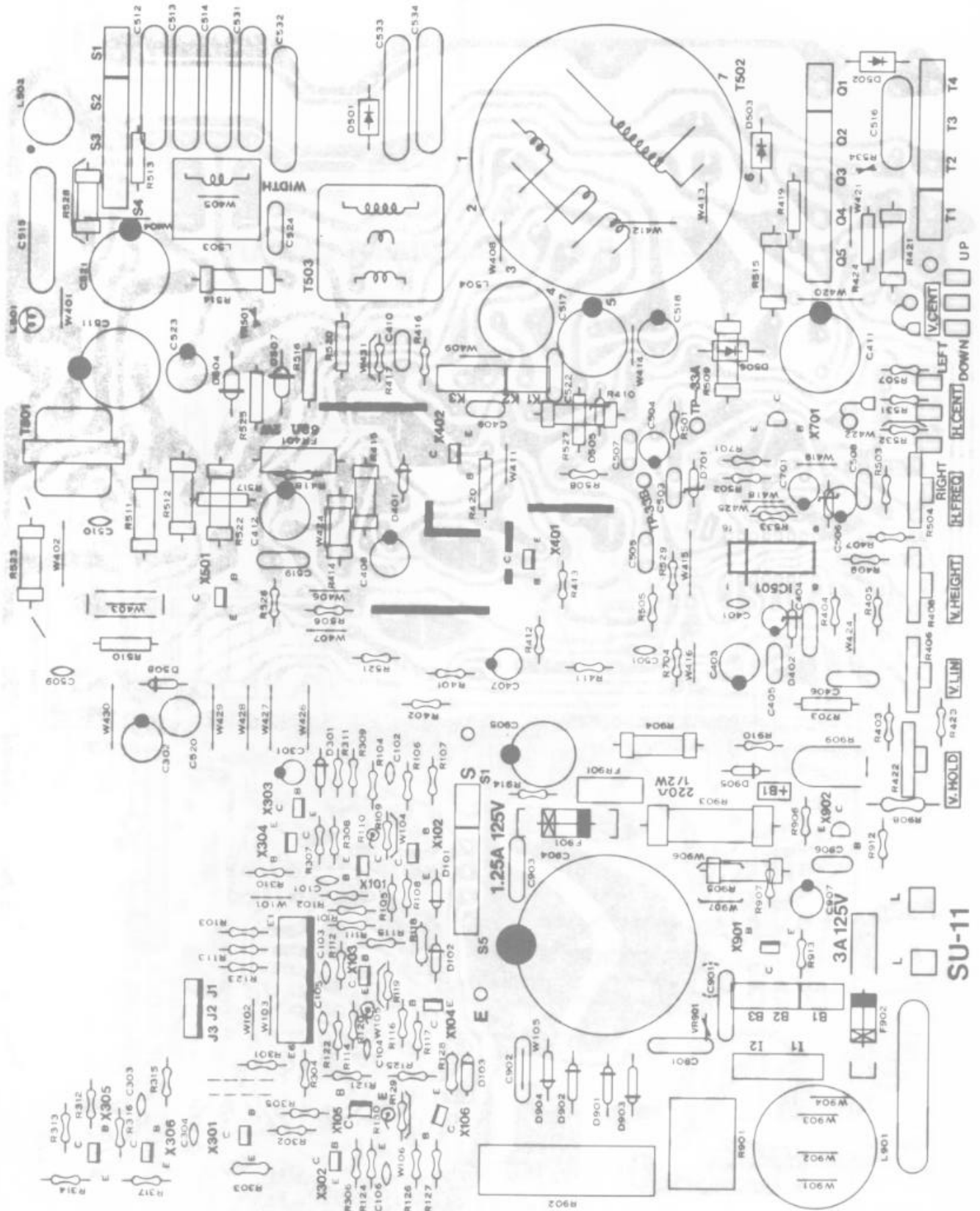
<u>Part No.</u>	<u>Description</u>	<u>Ref. Des.</u>
	Pin terminal housing	
	Purity shield (2 pcs)	
	Purity shield (2 pcs)	
	Capacitor 100 nf 10% 400V	C911
	Resistor, wirewound 33 Ohm, 4W	R921
	Fire retardant term strip 4 lug	
	CRT SOCKET PCB ASSY	
	V R 200	R105
	V R 200	R106
	V R 5K	R113
	V R 5K	R114
	V R 5K	R115
	OM R 10K Ohm 2W J	R116
	OM R 10K Ohm 2W J	R117
	OM R 10K Ohm 2W J	R118
	Comp R 3.3K Ohm 1/2 K	R119
	Comp R 3.3K Ohm 1/2 K	R120
	Comp R 3.3K Ohm 1/2 K	R121
Capacitors	E Cap 10 uf 250V A	C107
	C Cap 1000 pf DC1400V P	C108
Coils		
180-0023	Peaking coil	L101
Semiconductors		
482-0290	Si transistor, 2SC1514VC	X101
482-0290	Si transistor, 2SC1514VC	X102
482-0290	Si transistor, 2SC1514VC	X103
Miscellaneous		
213-0022	CRT socket	

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des</u>
	MAIN PCB ASSY	
Resistors		
	V R 200 Ohm	R406
	V R 200 Ohm	R408
	CMF R 6.8 Ohm 1W J	R410
	OM R 3.3K Ohm 1W J	R414
	OM R 2.7K Ohm 1W J	R415
	OM R 12K Ohm 2W J	R421
	V R 10K Ohm	R422
	F R 68 Ohm 2W K	FR401
	CMF R 11.8K Ohm 1/4W + 1%	R503
	V R 5K Ohm	R504
	OM R 10K Ohm 2W J	R509
	OM R 8.2K Ohm 2W J	R512
	OM R 820 Ohm 2W J	R514
	CMF R 8.2 Ohm 1W J	R515
	CMF R 4.7 Ohm 1W J	R522
	OM R 68 Ohm 2W J	R523
	OM R 390 Ohm 1W J	R528
	ZN R 470 Ohm	R534
	ZN R	VR501
	CMF R 39 Ohm 1/2W + 1%	R703
	CMF R 7.68K Ohm 1/4 + 1%	R704
	Posistor	R901
	UNF R 2 Ohm 7W K	R902
	CMF R 4.7 Ohm 3W J	R903
	OM R 10K Ohm 2W J	R904
	OM R 18K Ohm 1W J	R905
	CMF R 47 Ohm 1/2W + 1%	Q908
	V R 2K Ohm	R909
	CMF R 2.74K Ohm 1/4 + 1%	R910
	F R 220 Ohm 1/2W K	FR901

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des</u>
Capacitors		
	BPE Cap 3.3 uf 50V A	C301
	Tan cap 2.2 uf 16V K	C402
	E cap 4.7 uf 6.3V A	C407
	E cap 100 uf 160V A	C411
	E cap 3.3 uf 160V A	C412
	PP cap 5600 uf 50V J	C508
	PP cap 2000 pf DC1500V J	C512
	PP cap 2000 pf DC1500V J	C513
	PP cap 2000 pf DC1500V J	C514
	PP cap 0.53 uf DC1200V J	C515
	BPE cap 3.3 uf 50V A	C520
	E cap 1 uf 160V A	C523
	M cap 0.1 uf 200V K	C524
	PP cap 2000 pf DC1500V J	C531
	PP cap 1500 pf DC1500V J	C532
	E cap	C904
	E cap 10 uf 250V A	C905
Coils		
180-0024	Linarity coil	L502
181-0031	Width coil	L503
180-0025	Heater choke	L504
Transformers		
560-0061	Hor drive transf	T501
560-0097	Side pin transf	T503
Semiconductors		
316-0807	IC HA11244	IC501
482-0177	Si transistor, 2SC1685(R)	X101
482-0111	Si transistor, 2SA673(C)	X102
482-0177	Si transistor, 2SC1685(R)	X103
482-0111	Si transistor, 2SA673(C)	X104
482-0177	Si transistor, 2SC1685(R)	X105

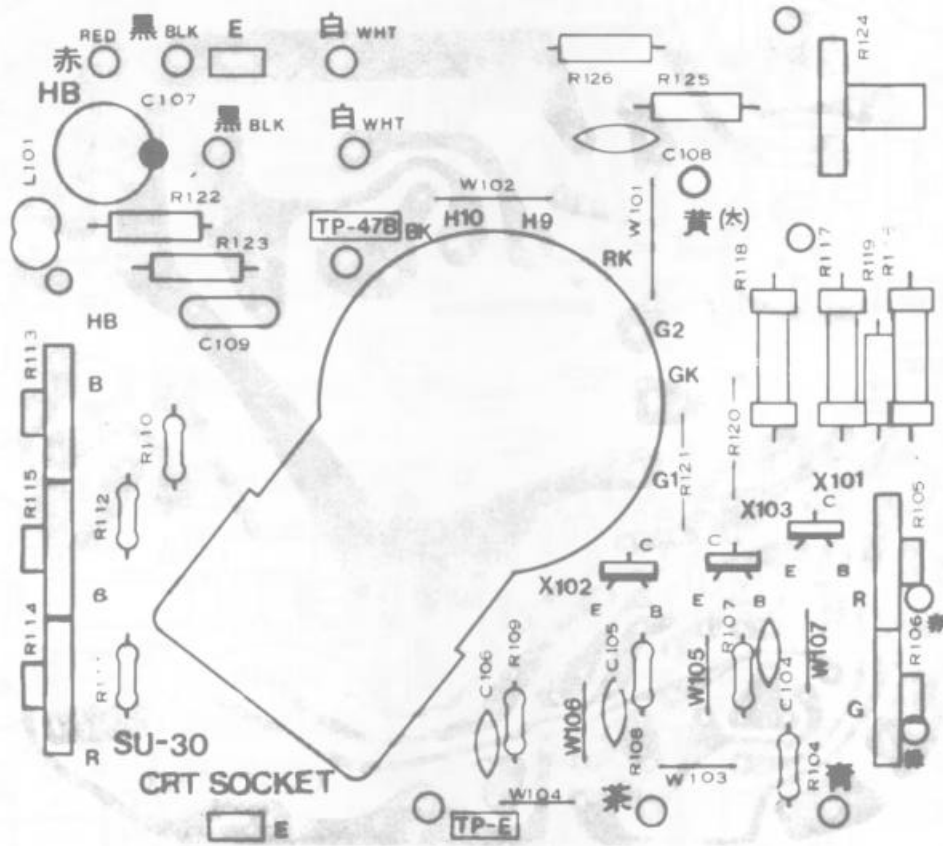
<u>Part No.</u>	<u>Description</u>	<u>Ref. Des</u>
482-0111	Si transistor, 2SCA673(C)	X106
482-0177	Si transistor, 2SC1685(R)	X301
482-0177	Si transistor, 2SC1685(R)	X302
482-0111	Si transistor, 2SA673(C)	X303
482-0177	Si transistor, 2SC1685(R)	X304
482-0177	Si transistor, 2SC1685(R)	X305
482-0196	Si transistor, 2SD478	X401
482-0196	Si transistor, 2SD478	X402
482-0291	Si transistor, 2SC2610BK	X501
482-0257	Si transistor, 2SC2688 (KLM)	X901
482-0258	Si transistor, 2SC1890A (EF)	X902
481-0226	Si diode, W06A	D101
481-0226	Si diode, W06A	D102
481-0226	Si diode, W06A	D103
481-0149	Si diode, 1SZ473H	D301
481-0149	Si diode, 1SZ473H	D401
481-0227	Zener diode, RD10F (C)	D402
481-0171	Si diode, HF-1	D503
481-0228	Si diode, V09E	D504
481-0229	Zener diode, RD11E(B)	D505
581-0226	Si diode, W06A	D506
481-0230	Si diode, 1SS81	D507
481-0149	Si diode, 1SZ473H	D508
481-0231	Zener diode, RD20EV2	D701
481-0160	Si diode, 1S1887A	D901
481-0160	Si diode, 1S1887A	D902
481-0160	Si diode, 1S1887A	D903
481-0160	Si diode, 1S1887A	D904
481-0198	Zener diode, RD6.8EV3	D905
Miscellaneous		
	Fuse 1.25A	F901
	US fuse 3A	F902

MAIN P.C.B. COMPONENT LAYOUT

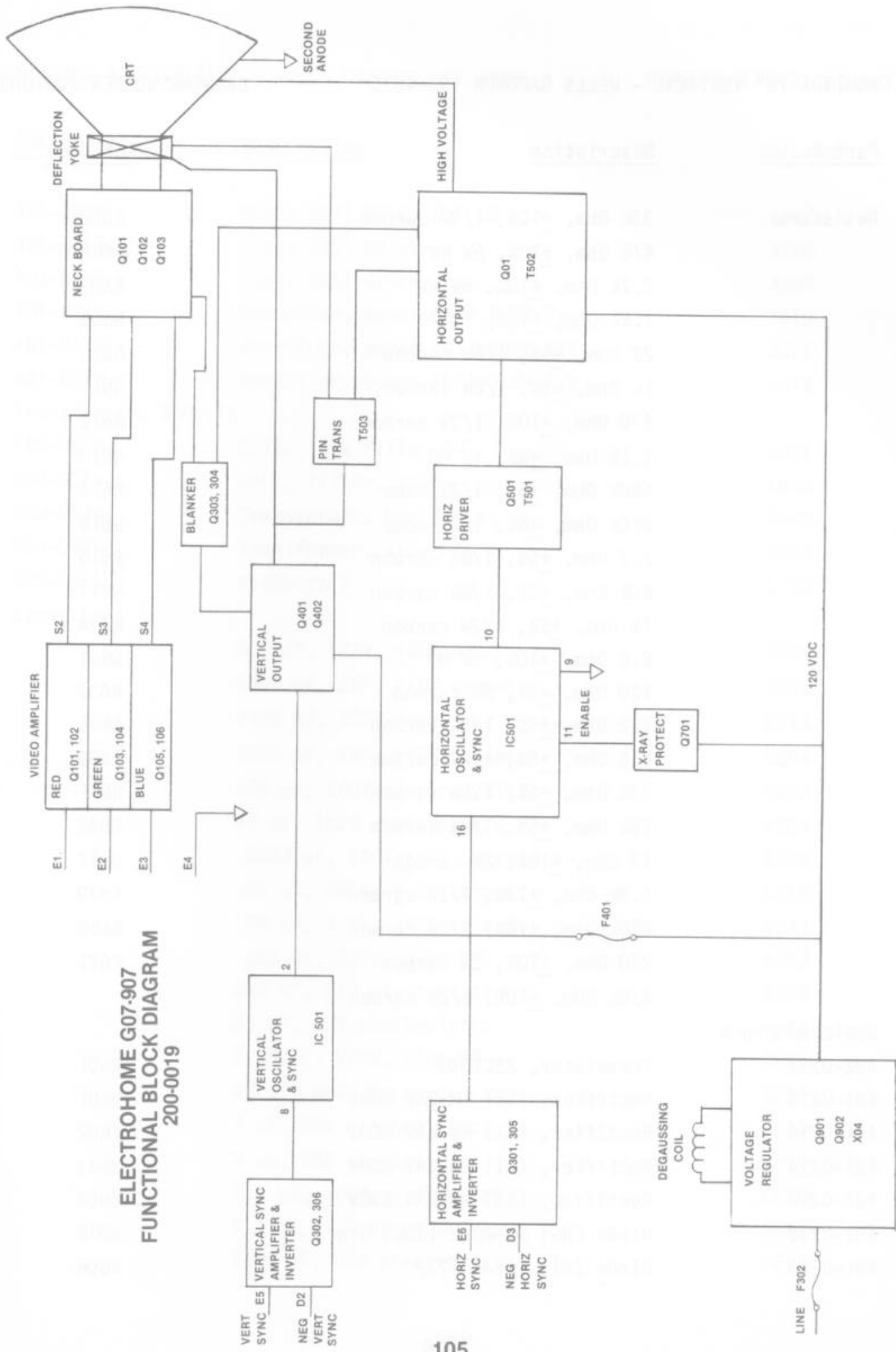


SU-11

C.R.T. P.C.B. COMPONENT LAYOUT



ELECTROHOME G07-907 FUNCTIONAL BLOCK DIAGRAM 200-0019



<u>Part No.</u>	<u>Description</u>	<u>Ref. Des</u>
Resistors	33k Ohm, <u>+10%</u> , 1/2W carbon	R603
	470 Ohm, <u>+10%</u> , 5W WW	R606
	2.7k Ohm, <u>+10%</u> , 5W WW	R607
	1.2k Ohm, <u>+10%</u> , 1W MO	R608
	22 Ohm, <u>+5%</u> , 1/8W carbon	R610
	1k Ohm, <u>+5%</u> , 1/2W carbon	R611
	470 Ohm, <u>+10%</u> , 1/2W carbon	R612
	1.2k Ohm, <u>+5%</u> , 1W MO	R613
	680k Ohm, <u>+5%</u> , 1/2W comp	R614
	270k Ohm, <u>+5%</u> , 1/2W comp	R615
	2.7 Ohm, <u>+5%</u> , 1/8W carbon	R616
	68k Ohm, <u>+5%</u> , 1/8W carbon	R617
	1k Ohm, <u>+5%</u> , 1/2W carbon	R624
	2.2 Ohm, <u>+10%</u> , 5W MO	R631
	120 Ohm, <u>+5%</u> , 5W carbon	R632
	2.2 Ohm, <u>+5%</u> , 1/8W carbon	R634
	6.8 Ohm, <u>+5%</u> , 1/2W carbon	R635
	33k Ohm, <u>+5%</u> , 1/8W carbon	R641
	15k Ohm, <u>+5%</u> , 1/8W carbon	R642
	15 Ohm, <u>+10%</u> , 2W carbon	R647
	1.8k Ohm, <u>+10%</u> , 1/2W carbon	R649
	270k Ohm, <u>+10%</u> , 1/2W carbon	R650
	240 Ohm, <u>+10%</u> , 2W carbon	R651
	6/8k Ohm, <u>+10%</u> , 1/2W carbon	
Semiconductors		
482-0262	Transistor, 2SC1893	TR601
481-0214	Rectifier, (SI) RM-2AV 600V	X601
481-0214	Rectifier, (SI) RM-2AV 600V	X602
481-0214	Rectifier, (SI) RM-2AV 600V	X603
481-0214	Rectifier, (SI) RM-2AV 600V	X604
481-0215	Diode (HS) SB-2CGL 1200V min	X605
481-0149	Diode (SI) IS2473-772	X606

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des</u>
481-0216	Diode (HS) RC-2V 0.8 US	X607
481-0217	Diode (HS) RU-2V	X608
481-0217	Diode (HS) RU-2V	X609
481-0218	Rectifier, power (SI) 500V PIV	X610
481-0218	Rectifier, power (SI) 500V PIV	X611
481-0218	Rectifier, power (SI) 500V PIV	X612
<u>Transformers & Coils</u>		
180-0020	Coil, line filter R-3	L601
180-0014	Coil, filter, 10uh	L602
560-0094	Transformer, hor drive	T602
560-0095	Transformer, side PC	T603
180-0015	Width coil	L702
<u>Capacitors</u>		
	0.1 uf, 125V, <u>+20%</u> MM	C601
	2200 pf, Z5F, <u>+10%</u> ceramic	C602
	2200 pf, 125V ceramic	C603
	2200 pf, Z5F, <u>+10%</u> ceramic	C604
	330 uf, 200V electrolytic	C605
	47 uf, 160V electrolytic	C608
	.0033 uf, 500V <u>+10%</u> ceramic	C609
	.01 uf, 500V, <u>+10%</u> ceramic	C610
	100 pf, 3 KV, <u>+10%</u> ceramic	C611
	.022 uf, 200v, <u>+10%</u> PP	C612
	220 uf, 25V electrolytic	C613
	33 uf, 25V electrolytic	C614
	0.39 uf, 200V, <u>+10%</u> PP	C615
	47 pf, 500V ceramic	C616
	1 uf, 50v electrolytic	C617
	1 uf, 50V electrolytic	C619
	0.1 uf, 100V, <u>+10%</u> mylar	C620
	0.1 uf, 1.5 KV, <u>+20%</u> paper	C621
	1000 uf, 35V electrolytic	C622

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des</u>
Capacitors (cont)	470 uf, 25V electrolytic	C623
	100 uf, 25V electrolytic	C624
	10 uf, 160V electrolytic	C625
	100 pf, 500V, +10% ceramic	C626
	39 pf, 500V, +10% ceramic	C627
	2200 pf, 500V, +10% ceramic	C628
	6900 pf, 1.5 KV, +5% PP	C629
	2.2 uf, 50V electrolyte	C633
	3 pf, 2 kV, +0.5 pf ceramic	C637
	.056 uf, 10% mylar	C638
Miscellaneous		
	Fuse (UL/CSA) 3A-125	F601
	Socket, 6 pin	J607
	Plug, 3 pin (GT)	P602
	Plug, 4 pin (NM)	P604
	Plug, 6 pin (GT)	P607
	Plug, 3 pin (NM)	P608
	Plug, 2 pin (NM)	P611
	Thermistor	TH601
	Plug, 6 pin	P201
	Plug, 6 pin	P202
	VERT/HOR BOARD	
Resistors		
	820 Ohm, +5%, 1/8W carbon	R301
	12k Ohm, +5%, 1/8W carbon	R302
	15k Ohm, +5%, 1/8W carbon	R303
	10k Ohm, +5%, 1/8W carbon	R304
	330k Ohm, +5%, 1/8W carbon	R305
	1k Ohm, +5%, 1/8W carbon	R306
	1.5k Ohm, +5%, 1/8W carbon	R307
	2.2k Ohm, +5%, 1/8 carbon	R309

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des</u>
Resistors (cont)	470k Ohm, <u>+5%</u> , 1/8W	R310
	56k Ohm, <u>+5%</u> , 1/8W carbon	R311
	100k Ohm, <u>+5%</u> , 1/8W carbon	R312
	10k Ohm, <u>+5%</u> , 1/8W carbon	R313
	47k Ohm, <u>+5%</u> , 1/8W carbon	R314
	820 Ohm, <u>+5%</u> , 1/8W carbon	R315
	120 Ohm, <u>+5%</u> , 1/2W carbon	R316
	2.2 Ohm, <u>+5%</u> , 1/2W carbon	R317
	33k Ohm, <u>+5%</u> , 1/4W carbon	R318
	10 Ohm, <u>+5%</u> , 1/8W carbon	R319
	15k Ohm, <u>+5%</u> , 1/8W carbon	R320
	560 Ohm, <u>+5%</u> , 1/2W carbon	R321
	22 Ohm, <u>+5%</u> , 2W MO	R322
	1.5 Ohm, <u>+5%</u> , 1/8W carbon	R323
	27k Ohm, <u>+5%</u> , 1/8W carbon	R234
	47 Ohm, <u>+5%</u> , 1/8W carbon	R325
	820 Ohm, <u>+5%</u> , 1/8W carbon	R328
	10k Ohm, <u>+5%</u> , 1/8W carbon	R330
	220k Ohm, <u>+5%</u> , 1/8W carbon	R331
	2.2k Ohm, <u>+5%</u> , 1/8W carbon	R351
	15k Ohm, <u>+5%</u> , 1/8W carbon	R352
	18k Ohm, <u>+5%</u> , 1/8W carbon	R353
	3.9k Ohm, <u>+5%</u> , 1/8W carbon	R354
	12k Ohm, <u>+5%</u> , 1/8W carbon	R355
	470 Ohm, <u>+5%</u> , 1/8W carbon	R356
	2.2k Ohm, <u>+5%</u> , 1/8W carbon	R357
	1.2k Ohm, <u>+5%</u> , 1/8W carbon	R358
	68k Ohm, <u>+5%</u> , 1/8W carbon	R359
	27 Ohm, <u>+5%</u> , 1/4W carbon	R360
	1.2k Ohm, <u>+5%</u> , 1/8W carbon	R361
	1.2k Ohm, <u>+5%</u> , 1/8W carbon	R363
	47k Ohm, <u>+5%</u> , 1W MO	R364

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des</u>
Resistors (cont)		
	56k Ohm, <u>+5%</u> , 1/2W carbon	R365
	3.3k Ohm, <u>+5%</u> , 1/8W carbon	R366
	2.2k Ohm, <u>+5%</u> , 1/2W carbon	R367
	3.9k Ohm, <u>+5%</u> , 1/8W carbon	R368
	3.3k Ohm, <u>+5%</u> , 1/4W carbon	R369
	1k Ohm, <u>+5%</u> , 1/4W carbon	R370
	2.7k Ohm, <u>+5%</u> , 1/4W carbon	R371
	2.2k Ohm, <u>+5%</u> , 1/4W carbon	R383
	8.2k Ohm, <u>+5%</u> , 1/4W carbon	R384
	Varistor, 250k Ohm, vert hold	VR301
	Varistor, 20k Ohm, vert size	VR302
	Varistor, 50k Ohm, hor hold	VR351
Capacitors		
	0.15 uf, 50V <u>+10%</u> mylar	C301
	0.222 uf, 50V, <u>+10%</u> mylar	C302
	0.1 uf, 50V, <u>+10%</u> mylar	C304
	2.2 uf, 50V electrolytic	C306
	0.15 uf, 50V, <u>+10%</u> mylar	C307
	0.1 uf, 50V, <u>+10%</u> mylar	C309
	22 uf, 16V electrolytic	C310
	1000 uf, 35V electrolytic	C311
	0.0082 uf, 50V, <u>+10%</u> ceramic	C312
	47 uf, 50V electrolytic	C313
	10 uf, 25V electrolytic	C315
	3300 uf, 50V, <u>+10%</u> mylar	C316
	100 pf 50V, <u>+10%</u> ceramic	C317
	1500 pf, 50V, <u>+10%</u> ceramic	C351
	1000 pf, 50V, <u>+10%</u> ceramic	C352
	0.022 uf, 50V, <u>+10%</u> mylar	C353
	0.1 uf, 50V, <u>+10%</u> mylar	C355
	4.7 uf, 25V electrolytic	C356

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des</u>
Capacitors (cont)	0.015 uf, 200V, <u>+10%</u> PP	C357
	0.018 uf, 200V, <u>+10%</u> PP	C358
	4.7 uf, 160V electrolytic	C359
	0.01 uf, 50V, <u>+10%</u> ceramic	C360
	0.015 uf, 50V, <u>+10%</u> mylar	C361
	10 uf, 50V electrolytic	C362
	0.01 uf, 640V, <u>+10%</u> PP	C363
	0.01 uf, 50V, <u>+10%</u> ceramic	C364
Semiconductors		
482-0282	Transistor, 2SA826Q	TR301
482-0261	Transistor, 2SC1740Q	TR302
482-0283	Transistor, 2SA1740Q	TR303
482-0261	Transistor, 2SC1740Q	TR304
452-0284	Transistor, 2SA490YLBGLI	TR305
482-0285	Transistor, 2SC1625YLBGLI	TR306
482-0261	Transistor, 2SC1740R	TR307
482-0261	Transistor, 2SC1740Q	TR308
482-0117	Transistor, 2SA854Q	TR351
482-0286	Transistor, 2SC1722BKS	TR352
482-0261	Transistor, 2SC1740Q	TR353
482-0282	Transistor, 2SA826Q	TR354
481-0149	Diode (SI) IS2473-T72	X301
481-0149	Diode (SI) IS2473-T72	X302
481-0099	Diode (GE) IN60TVGL	X303
481-0219	Diode (SI) ISS81	X304
481-0219	Diode (SI) ISS81	X305
481-0219	Diode (SI) ISS81	X306
481-0220	Diode (SI) MA26W	X307
481-0149	Diode (SI) IS2473	X308
481-0149	Diode (SI) IS2473-T72	X351
481-0149	Diode (SI) IS2473-T72	X352
481-0149	Diode (SI) IS2473-T72	X53

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des</u>
481-0149	Diode (SI) IS2473-T72	X54
481-0221	Diode (Zener) RD10EBI	X355
481-0222	Diode (HS) RU-1 0.3 US	X366
Miscellaneous		
204X9300-958	Socket, 6 pin	J301
204X9300-958	Socket, 6 pin	J302
204X9601-195	Plug, 6 pin	P301
204X9601-195	Plug, 6 pin	P302
201X0000-534	Thermistor	TH301
Transformers & Coils		
101-0030	Coil, horiz osc	L351
POWER BOARD		
Resistors		
	180 Ohm, <u>+10%</u> 15W WW	R501
	100 Ohm, <u>+5%</u> , 1/8W carbon	R502
	1k Ohm, <u>+5%</u> , 1/8W carbon	R503
	560 Ohm, <u>+5%</u> , 1/8W carbon	R504
	39k Ohm, <u>+5%</u> , 1W MO	R505
	6.8k Ohm, <u>+5%</u> , 1/8W carbon	R506
	Varistor volt adj	VR501
Capacitors		
	10 uf, 160V electrolytic	C501
	1500 pf, 50V, <u>+10%</u> ceramic	C502
	22 uf, 16V electrolytic	
Semiconductors		
482-0261	Transistor, 2SC1740Q	TR501
482-0288	Transistor, 2SC1454	TR502
481-0135	Diode (SI) zener EQB01-06V	X501
481-0149	Diode (SI) IS2473-T72	X502
Miscellaneous		
	Socket, 6 pin	J501

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des</u>
	Plug, 6 pin	P501
	Thermister	TH501
NECK BOARD		
<u>Resistors</u>		
	1.8k Ohm, <u>+5%</u> , 1/8W carbon	R401
	1.8k Ohm, <u>+5%</u> , 1/8W carbon	R402
	1.8k Ohm, <u>+5%</u> , 1/8W carbon	R403
	150 Ohm, <u>+5%</u> , 1/8W carbon	R404
	220 Ohm, <u>+5%</u> , 1/8W carbon	R405
	150 Ohm, <u>+5%</u> , 1/8W carbon	R406
	390 Ohm, <u>+5%</u> , 1/4W carbon	R407
	390 Ohm, <u>+5%</u> , 1/4W carbon	R408
	4.7k Ohm, <u>+5%</u> , 1/8W carbon	R409
	4.7k Ohm, <u>+5%</u> , 1/8W carbon	R410
	4.7k Ohm, <u>+5%</u> , 1/8W carbon	R411
	12k Ohm, <u>+5%</u> , 2.0W metal oxide	R412
	12k Ohm, <u>+5%</u> , 2.0W metal oxide	R413
	12k Ohm, <u>+5%</u> , 2.0W metal oxide	R414
	2.7k Ohm, <u>+10%</u> , 1/2W comp	R415
	2.7k Ohm, <u>+10%</u> , 1/2W comp	R416
	2.7k Ohm, <u>+10%</u> , 1/2W comp	R417
	470k Ohm, <u>+10%</u> , 1/2W comp	R418
	330k Ohm, <u>+10%</u> , 1/2W comp	R419
	1.0 Ohm, <u>+10%</u> , 2W metal oxide	R422
	270 Ohm, <u>+5%</u> , 1/4W carbon	R423
	500 Ohm varistor R drive	VR401
	500 Ohm varistor B drive	VR402
	5k Ohm varistor R cutoff	VR403
	5k Ohm varistor G cutoff	VR404
	5k Ohm varistor B cutoff	VR405
	1M Ohm varistor screen	VR406

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des</u>
Capacitors		
	1000 pf, 50V, 10% ceramic	C401
	1000 pf, 50V, 10% ceramic	C402
	1000 pf, 50V, 10% ceramic	C403
	1500 pf, 2 kV <u>+10%</u> ceramic	C404
	100 pf, 12 kV, <u>+10%</u> ceramic	C405
	.01 uf, 500V, <u>+10%</u> ceramic	C406
	1500 pf, 2 kV, <u>+10%</u> ceramic	C407
	68 pf, 50V, <u>+10%</u> ceramic	C408
	68 pf, 50V, <u>+10%</u> ceramic	C409
	68 pf, 50V, <u>+10%</u> ceramic	C410
Semiconductors		
482-0155	Transistor, 2SC1514 (R output)	TR401
482-0155	Transistor, 2SC1514 (G output)	TR402
482-0155	Transistor, 2SC1514 (B output)	TR403
481-0223	Diode, IS2367 (B output)	X404
481-0223	Diode, IS2367 (protector)	X405
481-0223	Diode, IS2367 (protector)	X406
Miscellaneous		
	Socket, 5 pin	J401
	Socket, 3 pin	J402
	Plug, 5 pin	P401
	Plug, 3 pin	P402
800-3253 High Voltage Assembly (T7010)		
	6.8 Ohm, <u>+10%</u> 15W WW resistor	R701
220-0223	Focus control	VR702
	Diode (SI HV))	X701
	Diode (SI HV)) Part of T701	X702
	Diode (SI HV))	X703

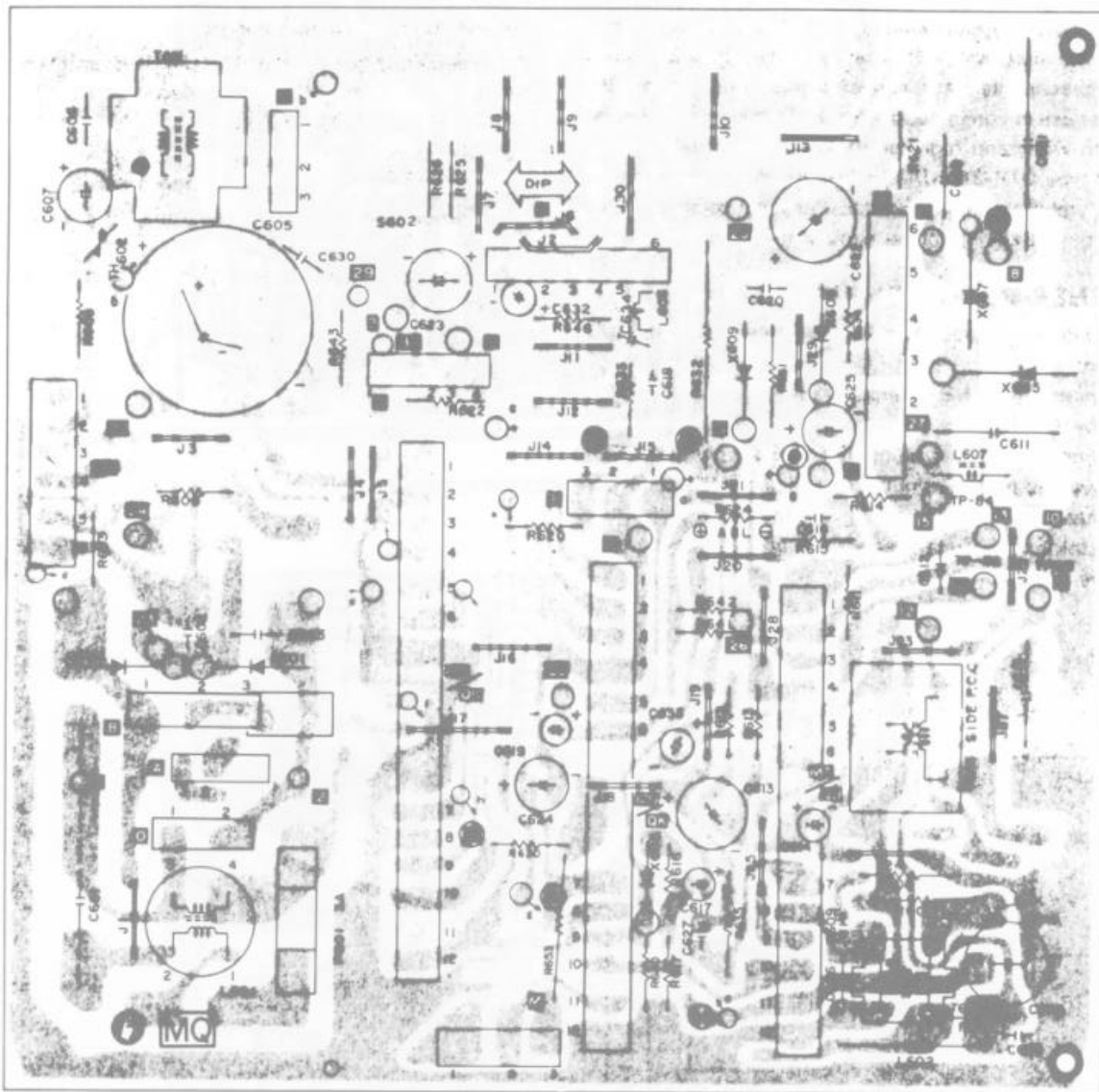
<u>Part No.</u>	<u>Description</u>	<u>Ref. Des.</u>
Final Assembly Parts		
200-0020	19VJTP22 pix tube	
800-3254	Assy purity shld/degaussing	
800-3255	Lateral/purity assembly	
200-0066	Yoke, deflection	
213-0021	CRT socket	
800-3253	HV unit (T701)	
	Plug, line cord (K4625, K4675, K4677)	
	Plug, line cord (K4626, K4676)	
180-0021	Degaussing coil (L701)	
	INTERFACE FACE BOARD (P317)	
Resistors		
	91 Ohm <u>+5%</u> , 1/2W carbon	R201
	22k Ohm, <u>+10%</u> , 1/4W carbon	R202
	1k Ohm, <u>+5%</u> , 1/2W carbon	R203
	100 Ohm, <u>+5%</u> , 1/4W carbon	R204
	100k Ohm, <u>+5%</u> , 1/4W carbon	R205
	330 Ohm, <u>+10%</u> , 1/2W carbon	R206
	2.2k Ohm, <u>+5%</u> , 1/4W carbon	R207
	2.2k Ohm, <u>+5%</u> , 1/4W carbon	R208
	100k Ohm, <u>+5%</u> , 1/4W carbon	R209
	100 Ohm, <u>+5%</u> , 1/4W carbon	R210
	220 Ohm, <u>+5%</u> , 1/4W carbon	R211
	220 Ohm, <u>+5%</u> , 1/4W carbon	R212
	220 Ohm <u>+5%</u> , 1/4W carbon	R213
	150 Ohm, <u>+5%</u> , 1/4W carbon	R214
	150 Ohm, <u>+5%</u> , 1/4W carbon	R215
	150 Ohm, <u>+5%</u> , 1/4W carbon	R216
	100 Ohm, <u>+5%</u> , 1/4W carbon	R217
	1k Ohm, <u>+5%</u> , 1/2W carbon	R218
	1k Ohm, <u>+5%</u> , 1/2W carbon	R219
	680 Ohm, <u>+5%</u> , 1/2W carbon	R220

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des.</u>
Resistors (cont)	270 Ohm, <u>+5%</u> , 1/2W carbon	R221
	270 Ohm, <u>+5%</u> , 1/2W carbon	R222
	100k Ohm, <u>+5%</u> , 1/4W carbon	R223
	1k Ohm, <u>+5%</u> , 1/2W carbon	R224
	8.2k Ohm, <u>+5%</u> , 1/4W carbon	R225
	8.2k Ohm, <u>+5%</u> , 1/4W carbon	R226
	8.2k Ohm, <u>+5%</u> , 1/4W carbon	R227
	390 Ohm, <u>+5%</u> , 1/2W carbon	R228
	1.5k Ohm black level control	VR201
	10k Ohm horizontal centering	VR202
Capacitors		
	1000 uf, 16V electrolytic	C201
	470 uf, 16V lytic	C202
	.022 uf, 10% 100V	C203
	680 pf, 10%, Z5F	C204
	.01 uf, 10%, 100V	C205
Semiconductors		
482-0030	Transistor (NPN) 2N3904	TR201
482-0030	Transistor (NPN) 2N3904	TR202
482-0030	Transistor (NPN) 2N3904	TR203
482-0289	Transistor (PNP) MPS-A70	TR204
482-0289	Transistor (PNP) MPS-A70	TR205
482-0289	Transistor (PNP) MPS-A70	TR206
482-0030	Transistor (NPN) 2N3904	TR207
482-0030	Transistor (NPN) 2N3904	TR208
482-0030	Transistor (NPN) 2N3904	TR209
482-0030	Transistor (NPN) 2N3904	TR210
481-0224	Diode silicon FDH-444	X201
481-0224	Diode silicon FDH-444	X202
481-0224	Diode silicon FDH-444	X203
481-0224	Diode silicon FDH-444	X204
481-0014	Diode, zener 3.9V, 5%, 0.5W IN5228B	ZD201

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des.</u>
Miscellaneous		
	Socket, 6 pin	J201
	Socket, 6 pin	J202
	Plug, 4 pin	P203
	Plug, 3 pin	P204
	Plug, 6 pin	P205
Resistors		
	91 Ohm <u>+5%</u> , 1/2W carbon	R201
	22k Ohm, <u>+10%</u> , 1/4W carbon	R202
	1k Ohm, <u>+5%</u> , 1/2W carbon	R203
	100 Ohm, <u>+5%</u> , 1/4W carbon	R204
	100k Ohm, <u>+5%</u> , 1/4W carbon	R205
	330 Ohm, <u>+10%</u> , 1/2W carbon	R206
	2.2k Ohm, <u>+5%</u> , 1/4W carbon	R207
	2.2k Ohm, <u>+5%</u> , 1/4W carbon	R208
	100k Ohm, <u>+5%</u> , 1/4W carbon	R209
	100 Ohm, <u>+5%</u> , 1/4W carbon	R210
	200 Ohm, <u>+5%</u> , 1/4W carbon	R211
	200 Ohm, <u>+5%</u> , 1/4W carbon	R212
	200 Ohm <u>+5%</u> , 1/4W carbon	R213
	200 Ohm, <u>+5%</u> , 1/4W carbon	R214
	200 Ohm, <u>+5%</u> , 1/4W carbon	R215
	200 Ohm, <u>+5%</u> , 1/4W carbon	R216
	100 Ohm, <u>+5%</u> , 1/4W carbon	R217
	1k Ohm, <u>+5%</u> , 1/2W carbon	R218
	1k Ohm, <u>+5%</u> , 1/2W carbon	R219
	1k Ohm, 5%, 1/2W carbon	R220
	200 Ohm, 5%, 1/2W carbon	R221
	200 Ohm, 5%, 1/2W carbon	R222
	100k Ohm, 5%, 1/4W carbon	R223
	680k Ohm, 5%, 1/2W carbon	R224
	8.2k Ohm, 5%, 1/4W carbon	R225

<u>Part No.</u>	<u>Description</u>	<u>Ref. Des.</u>
Resistors (cont)		
	8.2k Ohm, 5%, 1/4W carbon	R226
	8.2k Ohm, 5%, 1/4W carbon	R227
	390 Ohm, 5%, 1/2W carbon	R228
	1.5k Ohm black level control	VR201
	10k Ohm horizontal centering	VR202
Capacitors		
	1000 uf, 16V electrolytic	C201
	470 uf, 16V lytic	C202
	.022 uf, 10% 100V	C203
	680 pf, 10%, Z5F	C204
	.01 uf, 10%, 100V	C205
Semiconductors		
482-0030	Transistor (NPN) 2N3904	TR201
482-0030	Transistor (NPN) 2N3904	TR202
482-0030	Transistor (NPN) 2N3904	TR203
482-0289	Transistor (PNP) MPS-A70	TR204
482-0289	Transistor (PNP) MPS-A70	TR205
482-0289	Transistor (PNP) MPS-A70	TR206
482-0030	Transistor (NPN) 2N3904	TR207
482-0030	Transistor (NPN) 2N3904	TR208
482-0030	Transistor (NPN) 2N3904	TR209
482-0030	Transistor (NPN) 2N3904	TR210
481-0224	Diode silicon FDH-444	X201
481-0224	Diode silicon FDH-444	X202
481-0224	Diode silicon FDH-444	X203
481-0224	Diode silicon FDH-444	X204
481-0014	Diode, zener 3.9V, 5%, 0.5W IN5228B	ZD201
Miscellaneous		
	Socket, 6 pin	J201
	Socket, 6 pin	J202
	Plug, 4 pin	P203
	Plug, 3 pin	P204
	Plug, 6 pin	P205

P.C. BOARD LAYOUT



P.C. BOARD LAYOUT

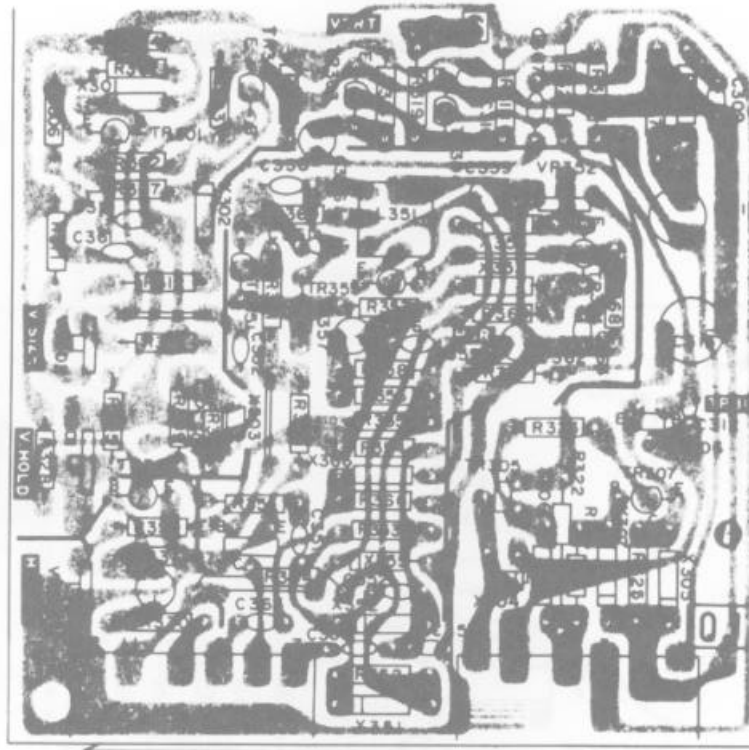
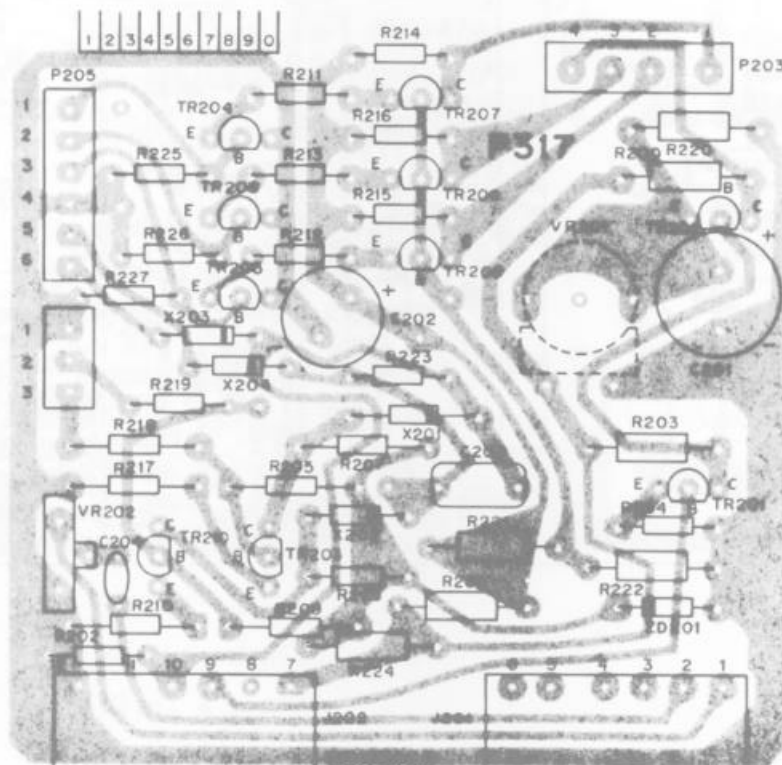


FIGURE 15. HORIZ/VERT P.C. BOARD



P.C. BOARD LAYOUT

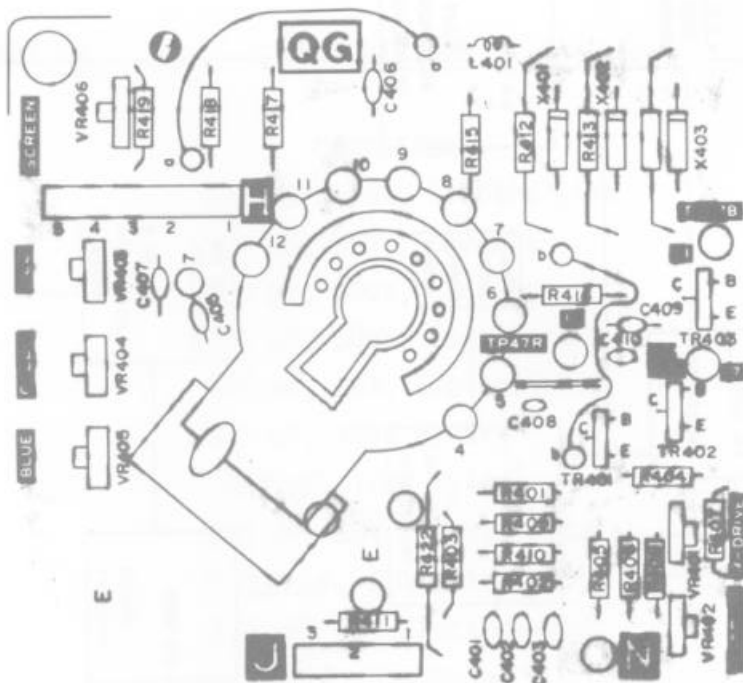
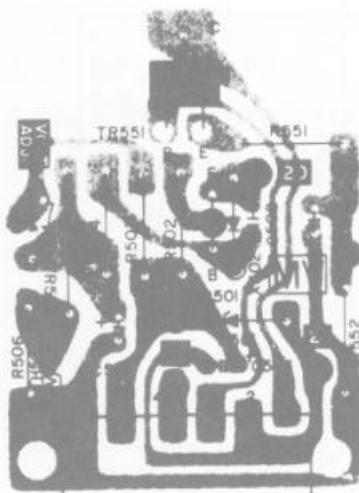
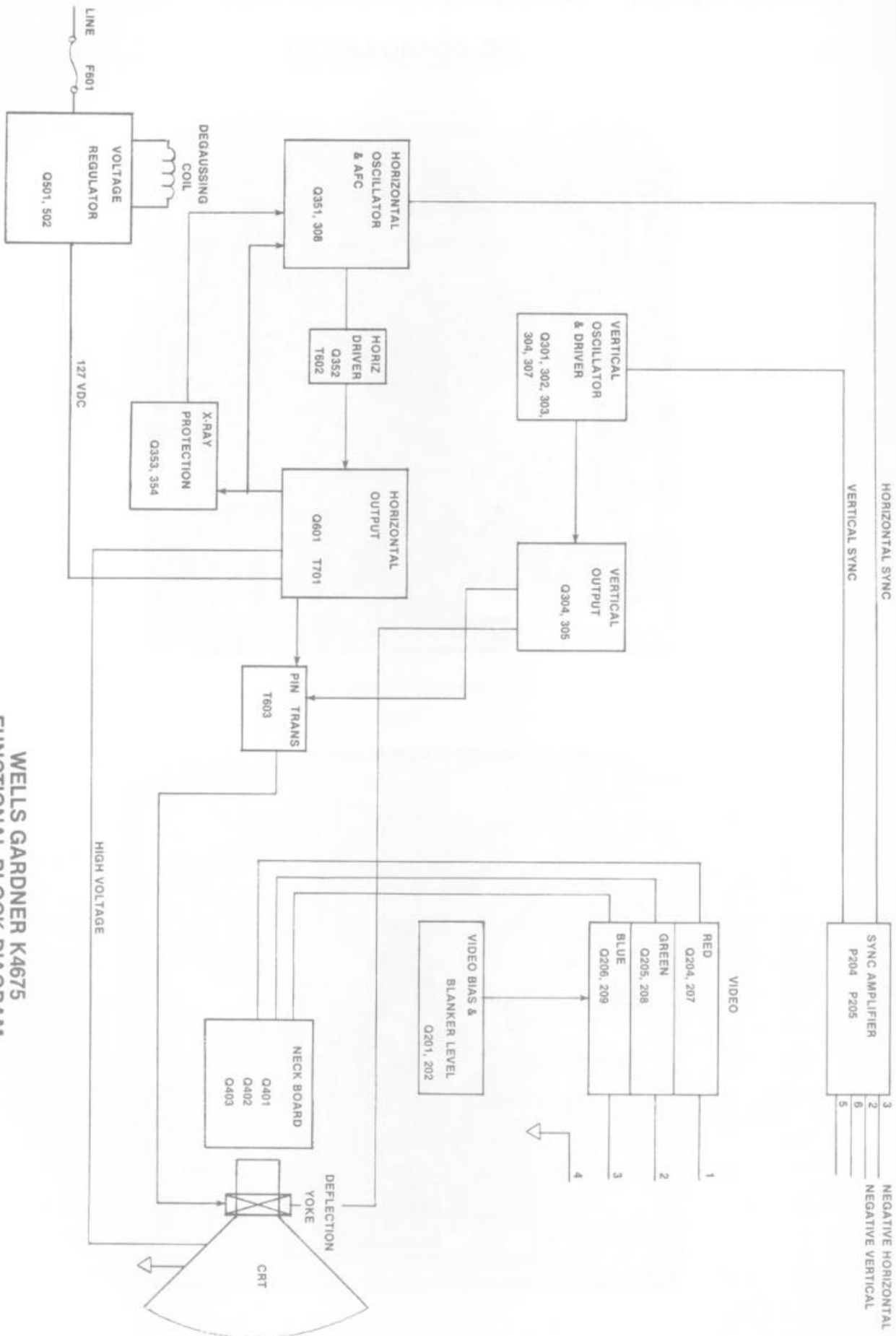


FIGURE 13. NECK P.C. BOARD





WELLS GARDNER K4675
 FUNCTIONAL BLOCK DIAGRAM
 200-0022

MAIN BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
CAPACITORS			
1		1000 μ F, 16V, Electrolytic	C201
2		330 pF, 500V, Ceramic	C202
3		220 pF, 500V, Ceramic	C203
4		220 pF, 500V, Ceramic	C204
5		470 μ F, 16V, Electrolytic	C205
6		0.1 μ F, 125V Mylar	C206
7		.022 μ F, 100V Mylar	C207
8		330 μ F, 50V Electrolytic	C301
9		0.033 μ F, 50V Mylar	C302
10		3.3 μ F, 50V Electrolytic	C303
11		0.068 pF, 50V Mylar	C304
12		2.2 μ F, 16V Tantal	C306
13		0.033 μ F, 50V Mylar	C307
14		3.3 μ F, 50V Electrolytic	C308
15		0.068 μ F, 100V PP	C309
16		10 μ F, 100V Electrolytic	C310
17		10 μ F, 160V Electrolytic	C311
18		1000 pF, 500V Ceramic	C312
19		47 μ F, 160V Electrolytic	C313
20		0.033 μ F, 200V PP	C314
21		1 μ F, 50V Electrolytic	C315
22		1 μ F, 50V Electrolytic	C351
23		47 μ F, 25V Electrolytic	C352
24		0.0082 pF, 50V Mylar-PP	C353
25		47 μ F, 25V Electrolytic	C354
26		0.0068 pF, 50V Mylar	C355
27		0.01 μ F, 500V Ceramic	C356
28		100 pF, 500V Ceramic	C359
29		0.0033 pF, 500V Ceramic	C360

MAIN BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
CAPACITORS			
30		0.01 uF, 500V Ceramic	C361
31		0.01 uF, 50V Ceramic	C362
32		8700 pF, 1.5 KV PP	C363
33		0.33 uF, 200V PP	C365
34	150-0074	22 uF, 25V Electrolytic	C366
35		6 uF, 500V Ceramic	C367
36		0.01 uF, 50V Ceramic	C368
37		0.1 uF, 100V PP	C372
38		470 uF, 500V Ceramic	C380
39		0.1 uF, 125V Mylar	C501
40		1500 pF, 500V Ceramic	C502
41		2200 pF, 125V Ceramic	C503
42		2200 pF, 125V Ceramic	C504
43		560 uF, 200V Electrolytic	C505
44		22 uF, 160V Electrolytic	C506
45		47 uF, 160V Electrolytic	C507
46		1000 uF, 25V Electrolytic	C701
47		10 uF, 100V Electrolytic	C702
48		1000 pF, 500V Ceramic	C703

MAIN BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
RESISTORS			
1		1K Ohm, 5%, 1/4W Carbon	R201
2		30 Ohm, 5%, 1/4W Carbon	R202
3		100 Ohm, 5%, 1/4W Carbon	R203
4		100 Ohm, 5%, 1/2W Carbon	R204
5		270 Ohm, 5%, 1/2W Carbon	R205
6		390 Ohm, 5%, 1/4W Carbon	R206
7		200 Ohm, 5%, 1/4W Carbon	R207
8		390 Ohm, 5%, 1/4W Carbon	R208
9		200 Ohm, 5%, 1/4W Carbon	R209
10		390 Ohm, 5%, 1/4W Carbon	R210
11		200 Ohm, 5%, 1/4W Carbon	R211
12		1K Ohm, 5%, 1/4W Carbon	R214
13		100K Ohm, 5%, 1/4W Carbon	R215
14		1K Ohm, 5%, 1/4W Carbon	R216
15		100 Ohm, 5%, 1/4W Carbon	R217
16		1K Ohm, 5%, 1/4W Carbon	R218
17		100K Ohm, 5%, 1/4W Carbon	R219
18		1K Ohm, 5%, 1/4W Carbon	R220
19		100 Ohm, 5%, 1/4W Carbon	R221
20		3.3 Ohm, 5%, 1/4W Carbon	R222
21		10 Ohm, 5%, 1/4W Carbon	R224
22		10 Ohm, 5%, 1/4W Carbon	R225
23		10 Ohm, 5%, 1/4W Carbon	R226
24		47K Ohm, 5%, 1/4W Carbon	R227
25		1K Ohm, 5%, 1/4W Carbon	R228
26		270 Ohm, 5%, 1/2W Carbon	R229
27		8.2K Ohm, 5%, 1/2W Comp.	R230
28		8.2K Ohm, 5%, 1/2W Comp.	R231
29		8.2K Ohm, 5%, 1/2W Comp.	R232

MAIN BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
RESISTORS			
30		180 Ohm, 5%, 1/4W Carbon	R233
31		82 Ohm, 5%, 1/4W Carbon	R234
32		82 Ohm, 5%, 1/4W Carbon	R235
33		82 Ohm, 5%, 1/4W Carbon	R236
34		270 Ohm, 5%, 1/4W Carbon	R301
35		8.2K Ohm, 5%, 1/4W Carbon	R302
36		8.2K Ohm, 5%, 1/4W Carbon	R303
37		2.2K Ohm, 5%, 1/4W Carbon	R304
38		6.8K Ohm, 5%, 1/4W Carbon	R305
39		7.5K Ohm, 5%, 1/4W Carbon	R306
40		5.6K Ohm, 5%, 1/4W Carbon	R307
41		22K Ohm, 5%, 1/4W Carbon	R309
42		39K Ohm, 5%, 1/4W Carbon	R310
43		3.3K Ohm, 5%, 1/4W Carbon	R311
44		4.7K Ohm, 5%, 1/4W Carbon	R312
45		1K Ohm, 5%, 5W Carbon	R313
46		220 Ohm, 5%, 1/4W Carbon	R314
47		10 Ohm, 5%, 1/4W Carbon	R315
48		3.3K Ohm, 5%, 1/4W Carbon	R316
49		12 Ohm, 5%, 1/2W Carbon	R317
50		390 Ohm, 5%, 1/4W Carbon	R318
51		1K Ohm, 5%, 1/4W Carbon	R319
52		33K Ohm, 5%, 1/4W Carbon	R320
53		270K Ohm, 5%, 1/2W Carbon	R321
54		10K Ohm, 5%, 1/4W Carbon	R322
55		10K Ohm, 5%, 1/4W Carbon	R351
56		3.9K Ohm, 5%, 1/4W Carbon	R352
57		68K Ohm, 5%, 1/4W Carbon	R353
58		3.3K Ohm, 5%, 1/4W Carbon	R354

MAIN BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
RESISTORS			
59		6.8K Ohm, 5%, 3W Metal Oxide	R355
60		56K Ohm, 5%, 1/2W Carbon	R358
61		470 Ohm, 5%, 1/4W Carbon	R360
62		10K Ohm, 5%, 1/4W Carbon	R361
63		1.8K Ohm, 5%, 1W Metal Oxide	R362
64		3.9K Ohm, 5%, 7W Metal Oxide	R363
65		22 Ohm, 5%, 1/4W Carbon	R364
66		33K Ohm, 5%, 1/4W Carbon	R365
67		10K Ohm, 5%, 1/4W Carbon	R367
68		330K Ohm, 5%, 1/2W Comp.	R368
79		680K Ohm, 5%, 1/2W Comp.	R369
70		33K Ohm, 5%, 1/4W Carbon	R370
71		1K Ohm, 5%, 1W Metal Oxide	R371
72		12K Ohm, 5%, 1W Metal Oxide	R372
73		6.8K Ohm, 5%, 1/2W Carbon	R375
74		270 Ohm, 5%, 2W Metal Oxide	R376
75		150 Ohm, 5%, 1/4W Carbon	R377
76		10K Ohm, 5%, 1/4W Carbon	R378
77		10K Ohm, 5%, 1/4W Carbon	R379
78		8.2K Ohm, 5%, 1/4W Carbon	R380
79		2.2K Ohm, 5%, 1W Metal Oxide	R381
80		150 Ohm, 5%, 1W Metal Oxide	R383
81		10K Ohm, 5%, 1/4W Carbon	R502
82		150 Ohm, 5%, 15W Metal Oxide	R503
83		47 Ohm, 5%, 1W Metal Oxide	R504
84		2.2K Ohm, 5%, 1/4W Carbon	R505
85		15 Ohm, 5%, 2W Metal Oxide	R506
86		330K Ohm, 5%, 1/2W Comp.	R507
87		3.3 Ohm, 5%, 10W WW	R601

MAIN BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
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RESISTORS

88		2.2 Ohm, 5%, 2W Metal Oxide	R701
89		2.2 Ohm, 5%, 1/2W Carbon	R702
90		2K Ohm-B Semi-Fixed	VR201
91		5K Ohm-B Semi-Fixed	VR301
92		500 Ohm-B Semi-Fixed	VR303
93		2K Ohm-B Semi-Fixed	VR351
94		2K Ohm-B Semi-Fixed	VR352

MAIN BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
SEMICONDUCTORS			
1	481-0175	Diode, IS2076-27	D203
2	481-0175	Diode, IS2076-27	D204
3	481-0175	Diode, IS2076-27	D205
4	481-0175	Diode, IS2076-27	D206
5	481-0175	Diode, IS2076-27	D207
6	481-0175	Diode, IS2076-27	D208
7	481-0175	Diode, IS2076-27	D209
8	481-0219	Diode, ISS81	D301
9	481-0175	Diode, IS2076-27	D302
10	481-0175	Diode, IS2076-27	D303
11	481-0244	Diode, RH-IV	D304
12	481-0244	Diode, RH-IV	D305
13	481-0175	Diode, IS2076-27	D306
14	481-0245	Diode, RM-1AV	D501
15	481-0245	Diode, RM-1AV	D502
16	481-0245	Diode, RM-1AV	D503
17	481-0245	Diode, RM-1AV	D504
18	481-0245	Diode, RM-1AV	D505
19	481-0245	Diode, RM-1AV	D506
20	481-0217	Diode, RU-2V	D701
21	481-0244	Diode, RH-1V	D702
22	482-0160	Transistor (NPN) 2SC1815GR	Q201
23	482-0160	Transistor (NPN) 2SC1815GR	Q202
24	482-0301	Transistor (PNP) 2SA562-Y-TM	Q203
25	482-0301	Transistor (PNP) 2SA562-Y-TM	Q204
26	482-0301	Transistor (PNP) 2SA562-Y-TM	Q205
27	482-0160	Transistor (NPN) 2SC1815GR	Q206
28	482-0160	Transistor (NPN) 2SC1815GR	Q207
29	482-0160	Transistor (NPN) 2SC1815GR	Q208

MAIN BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
SEMICONDUCTORS			
30	482-0302	Transistor (NPN) 2SC1851GR	Q209
31	482-0302	Transistor (NPN) 2SC1851GR	Q210
32	482-0302	Transistor (NPN) 2SC1851GR	Q301
33	482-0161	Transistor (NPN) 2SC2073LBGL2	Q302
34	482-0161	Transistor (NPN) 2SC2073LBGL2	Q303
35	482-0303	Transistor (NPN) 2SC2482BK	Q351
36	482-0202	Transistor (NPN) 2SD898B	Q352
37	313-0132	IC HA11423	IC301
38	313-0129	IC STR381	IC501

MAIN BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
TRANSFORMERS & COILS			
1	181-0035	Coil, (RF Choke)	L351
2	181-0036	Coil, Horiz., Size	L352
3	181-0037	Coil, Adg.	L701
4	560-0121	Transformer, Hor. Drive	T351
5	560-0122	HV-Unit M-11	T352

MAIN BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
		MISCELLANEOUS	
1		Fuse, 4 Amp. 125V	F501
2		Recap W Wire 3P-M-BG	J402
3		Plug, PWB 3P-J	P201
4		Plug, PWB 6P-Q	P202
5		Plug, PWB 4P-B	P401
6		Plug, PWB 2P-B	P501
7		Plug, PWB 4P-C	P601
8	478-0012	Thermistor	TH501

MAIN BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
FINAL ASSEMBLY			
1	200-0093	19VLT22 Pix Tube	
2	834-5030	Lateral/Purity Assembly	
3	200-0092	Yoke Deflection	
4	834-5031	CRT Socket	
5	181-0038	Automatic Degaussing Coil Unit	

NECK BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
RESISTORS			
1		220 Ohm, 5%, 1/4W Carbon	R401
2		390 Ohm, 5%, 1/4W Carbon	R402
3		820 Ohm, 5%, 1/4W Carbon	R403
4		220 Ohm, 5%, 1/4W Carbon	R404
5		390 Ohm, 5%, 1/4W Carbon	R405
6		820 Ohm, 5%, 1/4W Carbon	R406
7		470 Ohm, 5%, 1/4W Carbon	R407
8		270 Ohm, 5%, 1/4W Carbon	R408
9		820 Ohm, 5%, 1/4W Carbon	R409
10		15K Ohm, 5%, 2W M.O. Forming	R410
11		15K Ohm, 5%, 2W M.O. Forming	R411
12		15K Ohm, 5%, 2W M.O. Forming	R412
13		2.7K Ohm, 5%, 1/2W Comp.	R413
14		2.7 Ohm, 5%, 1/2W Comp.	R414
15		2.7K Ohm, 5%, 1/2W Comp.	R415
16		2.2 Ohm, 5%, 2W Metal Oxide	R416
17		2.7K Ohm, 5%, 1/4W Carbon	R419
18		2.7K Ohm, 5%, 1/4W Carbon	R420
19		2.7K Ohm, 5%, 1/4W Carbon	R421
20		500 Ohm, -B Semi-Fixed	VR401
21		500 Ohm, -B Semi-Fixed	VR402
22		5K Ohm, -B Semi-Fixed	VR403
23		5K Ohm, -B Semi-Fixed	VR404
24		5K Ohm, -B Semi-Fixed	VR405

NECK BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
CAPACITORS			
1		1200 pF, 500V Ceramic	C401
2		1000 pF, 500V Ceramic	C402
3		1000 pF, 500V Ceramic	C403
4		1500 pF, 1.5 KV Ceramic	C404
5		0.01 uF, 500V Ceramic	C405

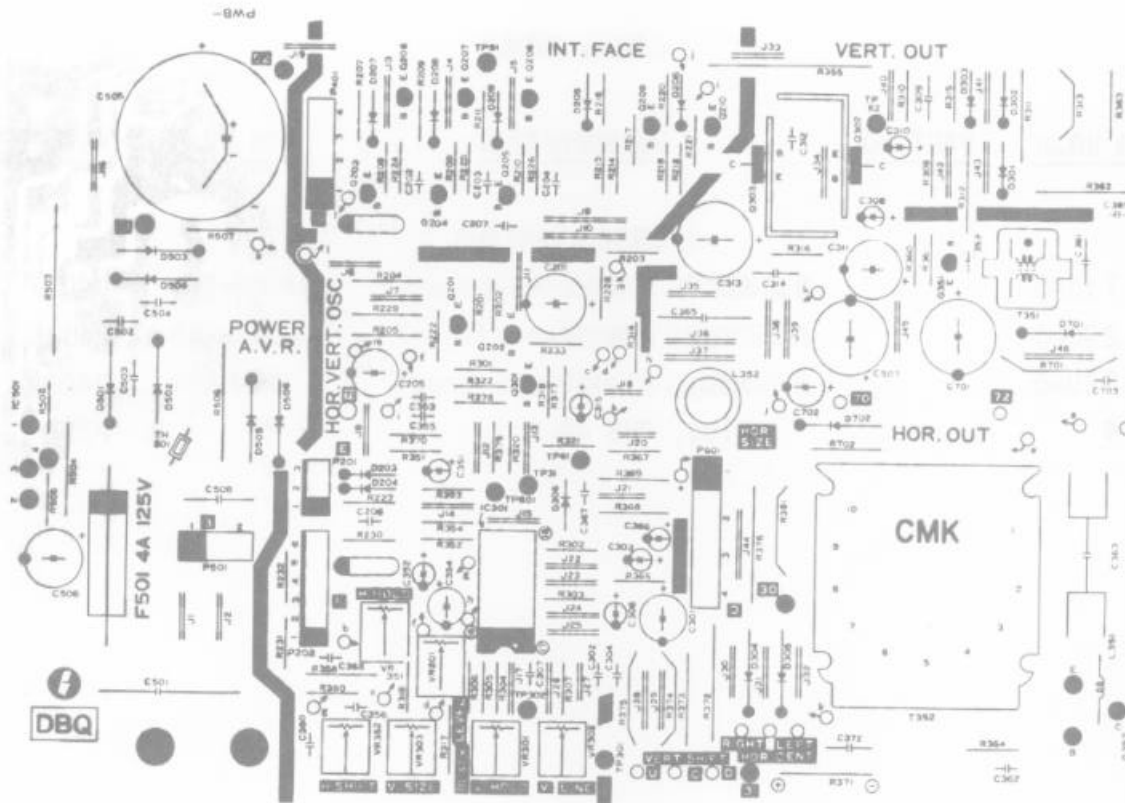
NECK BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
SEMICONDUCTORS			
1	482-0304	Transistor (NPN) 2SC2068LB	Q401
2	482-0304	Transistor (NPN) 2SC2068LB	Q402
3	482-0304	Transistor (NPN) 2SC2068LB	Q403
4		100 Ohm, 1/4W Carbon	R404
5		100 Ohm, 1/4W Carbon	R405
6		100 Ohm, 1/4W Carbon	R406
7		100 Ohm, 1/4W Carbon	R407
8		100 Ohm, 1/4W Carbon	R408
9		100 Ohm, 1/4W Carbon	R409
10		100 Ohm, 1/4W Carbon	R410
11		100 Ohm, 1/4W Carbon	R411
12		100 Ohm, 1/4W Carbon	R412
13		100 Ohm, 1/4W Carbon	R413
14		100 Ohm, 1/4W Carbon	R414
15		100 Ohm, 1/4W Carbon	R415
16		100 Ohm, 1/4W Carbon	R416
17		100 Ohm, 1/4W Carbon	R417
18		100 Ohm, 1/4W Carbon	R418
19		100 Ohm, 1/4W Carbon	R419
20		100 Ohm, 1/4W Carbon	R420
21		100 Ohm, 1/4W Carbon	R421
22		100 Ohm, 1/4W Carbon	R422
23		100 Ohm, 1/4W Carbon	R423
24		100 Ohm, 1/4W Carbon	R424
25		100 Ohm, 1/4W Carbon	R425
26		100 Ohm, 1/4W Carbon	R426
27		100 Ohm, 1/4W Carbon	R427
28		100 Ohm, 1/4W Carbon	R428
29		100 Ohm, 1/4W Carbon	R429
30		100 Ohm, 1/4W Carbon	R430

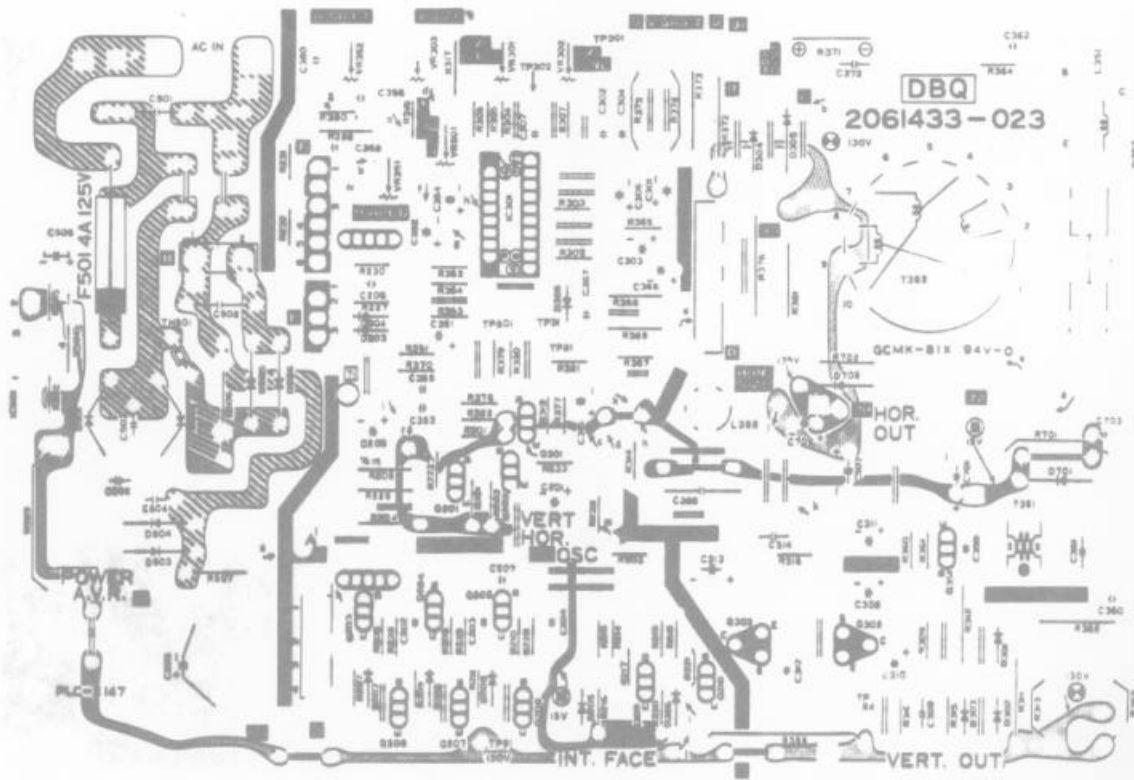
NECK BOARD

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REF. DESG.</u>
MISCELLANEOUS			
1		RECEP W Wire 4P-E	J401
2		Plug, PWB 3P-A	P402
3		Plug, Pin 1P-D	P403
4		Plug, PWB 4P-E	P701

P.C. BOARD LAYOUT



TOP VIEW

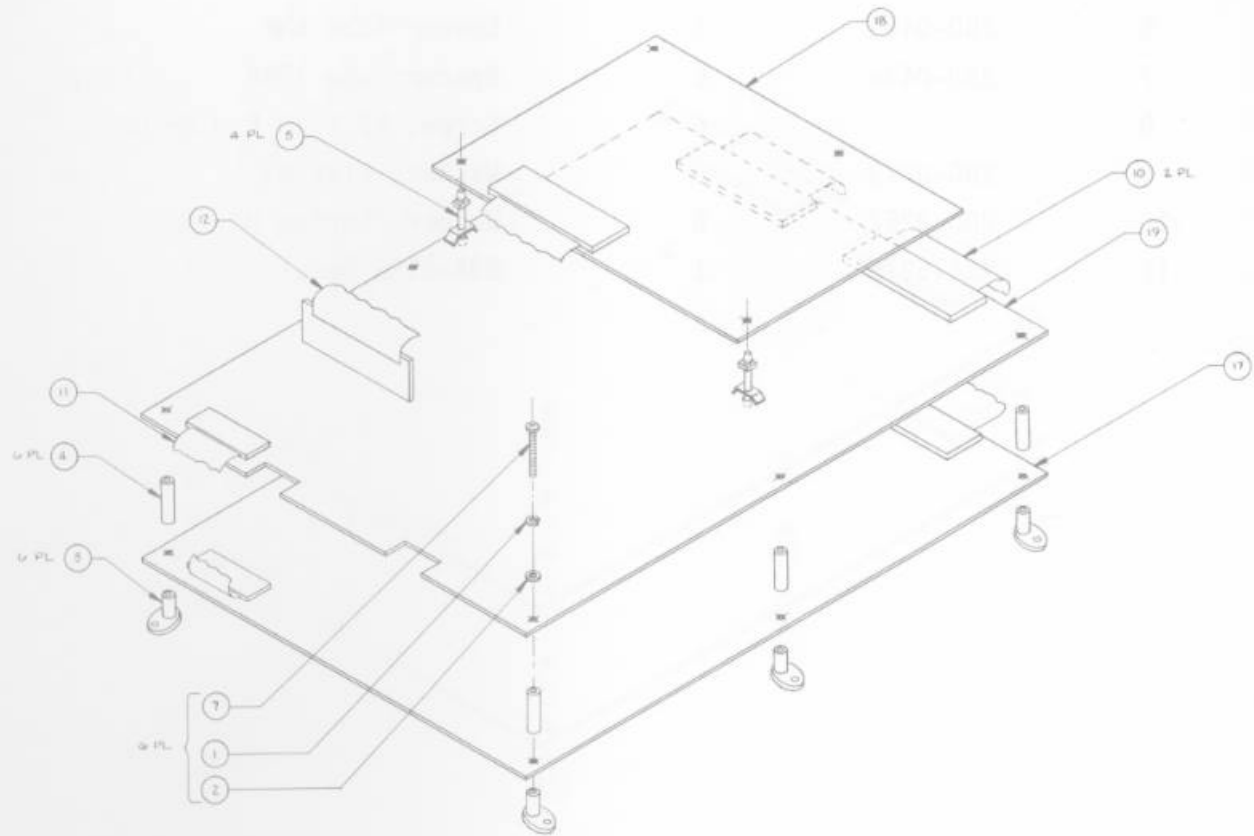


BOTTOM VIEW

IC BOARD ASSEMBLY

DRAWING NUMBER 834-5197

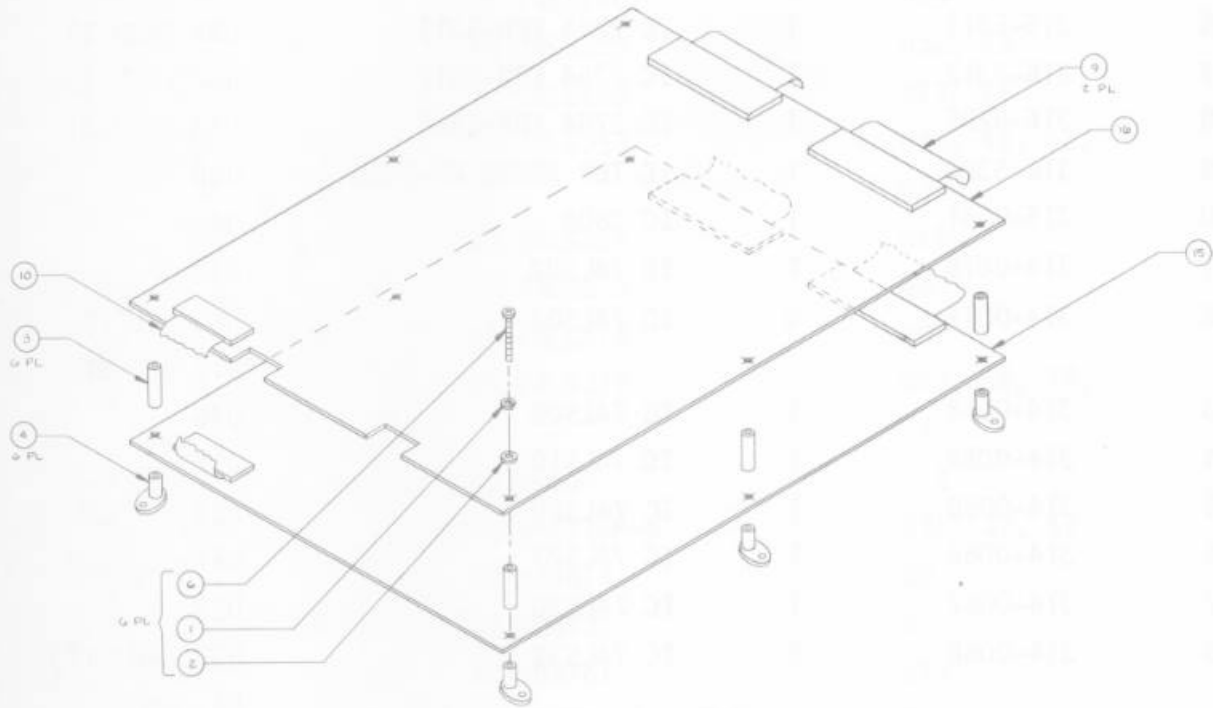
<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY REQD.</u>	<u>DESCRIPTION</u>
1	280-0257-00	6	Spring Washer, M3
2	280-0273-00	6	Flat Washer, M3
3	280-0435-00	6	Spacer, 6MM
4	280-0436-00	6	Spacer, 15MM
5	280-5013-00	4	Locking Support
6			
7	285-0002-30		Screw, M3-0.5 PN HD PHIL
8			
9			
10	600-5003-00	2	Fem 50P Flat Cable Assy
11	600-5006-00	1	Fem 10P Flat Cable Assy
12	600-5037-00	1	Fem 40P Flat Cable Assy
13			
14	601-0740	6	S-Lock
15			
16			
17	834-5167-00	1	Video Board Assy
18	834-5168-00	1	Sound Board Assy
19	834-5166-00	1	Control Board Assy



IC BOARD ASSEMBLY

DRAWING NUMBER 834-5198

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY REQD</u>	<u>DESCRIPTION</u>
1	834-5212	1	Control Board II Assembly
2	834-5167	1	Video Board Assembly
3	600-5003	2	50P Flat Cable & Fem. Assembly
4	600-5006	1	10P Cable & Fem Assembly
5	601-0740	6	S-Lock
6	280-0435	6	Spacer Tube 6MM
7	280-0436	6	Spacer Tube 15MM
8		6	Screw, M3 X 30 P.H.PHIL
9	280-0273	6	Washer, Flat M3
10	280-0257	6	Washer, Spring M3
11	421-5278	1	834-5198 Decal



CONTROL BOARD ASSEMBLY

DRAWING NUMBER 834-5166

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY</u> <u>REQ'D</u>	<u>DESCRIPTION</u>	<u>REF NO.</u>
1	171-5205	1	PC Board	
2	530-5004	1	Heat Sink 6.2 ⁰ C/W	
3	421-5256	1	Sticker 834-5207	
4	316-5309	1	IC 2764 EPR-5309	U35 (ROM 1)
5	316-5310	1	IC 2764 EPR-5310	U34 (ROM 2)
6	316-5311	1	IC 2764 EPR-5311	U33 (ROM 3)
7	316-5312	1	IC 2764 EPR-5312	U32 (ROM 4)
8	316-5295	1	IC 2764 EPR-5295	U76 (ROM 5)
9	316-5308	1	IC TBP 28S42 PR-5308	U68
10	315-0041	1	IC Z80A	U4
11	314-0078	1	IC 74LS02	U42
12	314-0019	6	IC 74LS04	U6, 20, 29, 31, 43, 51
13	314-0058	1	IC 74LS08	U46
14	314-0059	1	IC 74LS10	U17
15	314-0060	1	IC 74LS20	U24
16	314-0066	1	IC 74LS27	U71
17	314-0067	1	IC 74LS30	U25
18	314-0068	5	IC 74LS32	U38, 40, 47, 54, 80
19	314-0062	4	IC 74LS74	U18, 19, 41, 44
20	314-0070	1	IC 74LS86	U50
21	314-0040	1	IC 74LS125	U10
22	314-0056	1	IC 74LS132	U21
23	314-0104	2	IC 74LS138	U55, 56
24	314-0087	1	IC 74LS139	U39
25	314-0076	7	IC 74LS157	U60, 61, 69, 70, 77, 78, 79
26	314-0127	2	IC 74LS164	U22, 23
27	314-0072	2	IC 74LS174	U66, 67

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY</u> <u>REQ'D</u>	<u>DESCRIPTION</u>	<u>REF NO.</u>
28	314-0073	6	IC 74LS175	U14, 15, 16, 27, 28, 30
29	314-0083	1	IC 74LS240	U64
30	314-0055	4	IC 74LS244	U5, 7, 26, 65
31	314-0099	1	IC 74LS245	U45
32	314-0143	2	IC 74LS259	U52, 53
33	314-0122	2	IC 74LS299	U73, 75
34	314-0272	4	IC 74LS353	U48, 49, 62, 63
35	314-0102	1	IC 74LS367	U11
36	314-0131	1	IC 74LS373	U8
37	314-0093	1	IC 74LS374	U81
38	314-0119	4	IC 74LS377	U57, 58, 74, 77
39	313-0022	1	IC NE556	U12
40	315-	3	IC HM6116P-4	U36, 37, 59
41	315-0146	1	IC MB3614	U2
42	313-	1	IC MB3731	U1
43	313-0110	1	IC MB3761	U13
44	315-5019	1	IC Controller Chip G501564	U9
45	213-0008	1	SKT 20 Pin	
46	213-0012	5	SKT 28 Pin	
47	213-0005	2	SKT 40 Pin	
48	213-0001	3	SKT 24 Pin	
49	212-0098	1	Conn M 10 Pin	
50	212-0133	2	Conn M 50 Pin	
51	212-5001	1	Conn M 40 Pin	
52	211-0168	4	Conn Pin Test PT	
53	470-01R0	2	Res 1 Ohm 1/4W 5%	
54	470-0220	2	Res 22 Ohm 1/4W 5%	

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY</u> <u>REQ'D</u>	<u>DESCRIPTION</u>	<u>REF NO.</u>
55	470-0680	3	Res 68 Ohm 1/4W 5%	
56	470-0101	18	Res 100 Ohm 1/4W 5%	
57	470-0221	7	Res 220 Ohm 1/4W 5%	
58	470-0471	6	Res 470 Ohm 1/4W 5%	
59	470-0102	15	Res 1K Ohm 1/4W 5%	
60	470-0122	2	Res 1.2K Ohm 1/4W 5%	
61	470-0222	1	Res 2.2K Ohm 1/4W 5%	
62	470-0472	11	Res 4.7K Ohm 1/4W 5%	
63	470-0562	1	Res 5.6K Ohm 1/4W 5%	
64	470-0103	11	Res 10K Ohm 1/4W 5%	
65	470-0203	3	Res 20K Ohm 1/4W 5%	
66	470-0473	2	Res 47K Ohm 1/4W 5%	
67	470-0513	1	Res 51K Ohm 1/4W 5%	
68	470-0104	3	Res 100K Ohm 1/4W 5%	
69	470-0124	1	Res 120K Ohm 1/4W 5%	
70	470-0154	1	Res 150K Ohm 1/4W 5%	
71	470-0224	1	Res 220K Ohm 1/4W 5%	
72	470-0334	1	Res 330K Ohm 1/4W 5%	
73	470-0105	2	Res 1M Ohm 1/4W 5%	
74	220-0218	1	Vol Cont 20K Ohm	
75	477-0005	3	Res Pack 8 x 4.7K Ohm 1/8W	
76	477-0006	2	Res Pack 8 x 1K Ohm 1/8W	
77	481-0213	2	Diode 1S2075	
78	482-0037	4	XSTR 2SA564	
79	482-0057	2	XSTR 2SC1384	
80	482-0240	5	XSTR 2SC1684	
81	509-0156	1	SW 1 Pos. Dip SPST	
82	510-0049	2	SW 8 Pos. Dip SPST	
83	510-0053	1	SW Push Button	
84	150-0160	1	Cap E470 MF 16 WV	
85	150-0023	8	Cap E10 MF 16 WV	

CONTROL BOARD ASSEMBLY

DRAWING NUMBER 834-5166

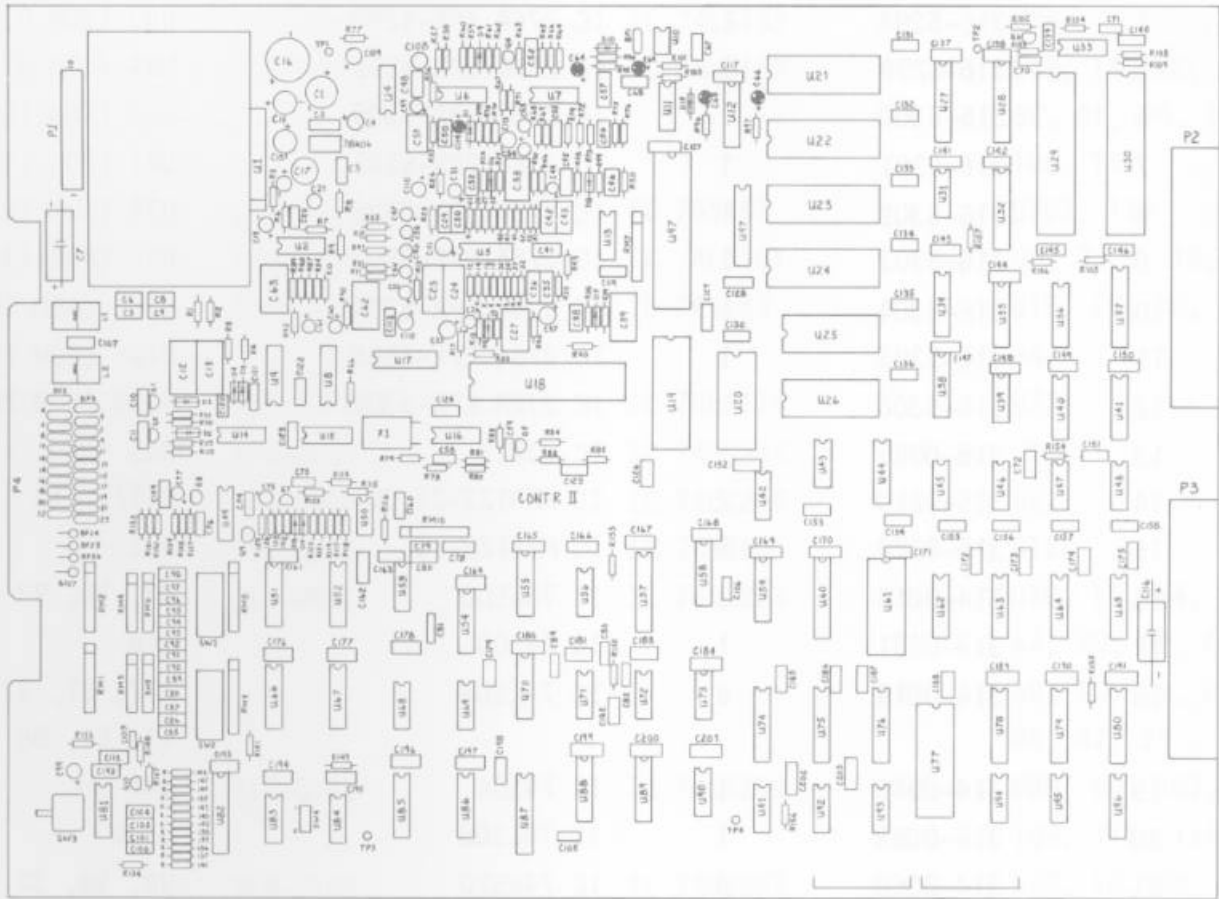
<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY</u> <u>REQ'D</u>	<u>DESCRIPTION</u>	<u>REF NO.</u>
86	150-0059	2	Cap E100 MF 16 WV	
87	150-0159	1	Cap E220 MF 16 WV	
88	150-0031	2	Cap E470 MF 16 WV	
89	150-0168	1	Cap E1000 MF 16 WV	
90	151-0020	2	Cap CER 33 PF 50V	
91	151-0002	3	Cap CER 100 PF 50V	
92	151-0043	7	Cap CER 220 PF 50V	
93	151-0074	2	Cap CER 0.0022 MF 25V	
94	151-0011	4	Cap CER 0.01 MF 50V	
95	151-0041	87*	Cap CER 0.1 MF 25V	
96	152-0063	1	Cap Film 0.0015 MF 50V	
97	152-0026	1	Cap Film 0.0039 MF 100V	
98	152-0031	2	Cap Film 0.1 MF 50V	
99	180-5002	2	Coil ST-501571	
100	601-5022	22	Filter 253D-01	
101	601-5023	4	Filter 2535-01	

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY REQD.</u>	<u>DESCRIPTION</u>	<u>REF DES.</u>
2	530-5004	1	Heat Sink 6.2°C/W	
3	421-5262	1	Decal 834-5212	
4	316-5334	1	IC 2764 EPR-5334	U21
5	316-5335	1	IC 2764 EPR-5335	U22
6	316-5336	1	IC 2764 EPR-5336	U23
7	316-5337	1	IC 2764 EPR-5337	U24
8	316-5295	1	IC 2764 EPR-5295	U77
9	316-5307	1	IC 2764 EPR-5307	U19
10	316-5315	1	IC TBP28L22 PR-5315	U87
11	315-0041	2	IC Z80A	U18, 29.
12	315-0152	1	IC 8225A-5	U97
13	314-0078	2	IC 74LS02	U45, 68.
14	314-0019	5	IC 74LS04	U33, 47, 53, 83, 95.
15	314-0015	1	IC 7404	U16
16	314-0058	1	IC 74LS08	U93
17	314-0059	1	IC 74LS10	U56
18	314-0146	1	IC 7416	U13
19	314-0060	1	IC 74LS20	U94
20	314-0066	1	IC 74LS27	U69
21	314-0067	1	IC 74LS30	U93
22	314-0068	4	IC 74LS32	U39, 42, 43, 90.
23	314-0062	4	IC 74LS74	U46, 48, 71, 92.
24	314-0070	1	IC 74LS86	U84
25	314-0040	1	IC 74LS125	U31
26	314-0056	1	IC 74LS132	U81
27	314-0104	3	IC 74LS138	U17, 34, 44.
28	314-0087	1	IC 74LS139	U38
29	314-0076	7	IC 74LS157	U62, 63, 64, 66, 88, 89, 96.
30	314-0127	2	IC 74LS164	U91, 92.
31	314-0072	2	IC 74LS174	U85, 86.
32	314-0073	6	IC 74LS175	U35, 36, 40, 54, 55, 70.
33	314-0083	1	IC 74LS240	U57

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY REQD.</u>	<u>DESCRIPTION</u>	<u>REF DES.</u>
34	314-0055	4	IC 74LS244	U27, 28, 37, 82.
35	314-0099	1	IC 74LS245	U60
36	314-0143	2	IC 74LS259	U58, 59
37	314-0122	2	IC 74LS299	U78, 80
38	314-0272	4	IC 74LS353	U51, 52, 66, 67
39	314-0102	1	IC 74LS367	U41
40	314-0131	1	IC 74LS373	U32
41	314-0093	1	IC 74LS374	U98
42	314-0119	4	IC 74LS377	U74, 75, 76, 79
43	314-0075	2	IC 74LS393	U14, 15
44	313-0022	1	IC NE556	U49
45	313-0139	1	IC MB3731	U50
46	313-0110	1	IC MB3761	U50
47	313-0140	1	IC AN78N06	U3
48	315-0217	4	IC HM6116P-4	U20, 25, 26, 61
49	315-0146	4	IC MB3614MG	U2, 5, 6, 7
50	315-0034	1	IC CD4001	U11
51	315-0205	2	IC 76489A	U8, 9
52	315-0221	1	IC MC14538B	U12
53	315-0035	1	IC MM5837	U10
54	315-5019	1	IC Cont. Chip G501564	U30
55	315-5021	1	IC Cont. Chip ST-501534	U4
56	213-0008	1	Socket 20-pin	
57	213-0012	6	Socket 28-pin	
58	213-0005	1	Socket 40-pin	
59	212-0098	1	Conn. Male 10-pin	
60	212-0133	2	Conn. Male 50-pin	
61	211-0168	4	Conn. Pin Test Point	
62	470-01R0	2	Resistor, 1 ohm $\frac{1}{4}$ W 5%	
63	470-0100	2	Resistor, 10 ohm $\frac{1}{4}$ W 5%	
64	470-0220	3	Resistor, 22 ohm $\frac{1}{4}$ W 5%	
65	470-0680	3	Resistor, 68 ohm $\frac{1}{4}$ W 5%	
66	470-0221	9	Resistor, 220 ohm $\frac{1}{4}$ W 5%	
67	470-0331	1	Resistor, 330 ohm $\frac{1}{4}$ W 5%	
68	470-0471	7	Resistor, 470 ohm $\frac{1}{4}$ W 5%	

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY REQD.</u>	<u>DESCRIPTION</u>
69	470-0102	19	Resistor, 1K ohm $\frac{1}{4}$ W 5%
70	470-0122	5	Resistor, 1.2K $\frac{1}{4}$ W 5%
71	470-0202	2	Resistor, 2K $\frac{1}{4}$ W 5%
72	470-0222	1	Resistor, 2.2K $\frac{1}{4}$ W 5%
73	470-0332	1	Resistor, 3.3K $\frac{1}{4}$ W 5%
74	470-0472	11	Resistor, 4.7K $\frac{1}{4}$ W 5%
75	470-0562	1	Resistor, 5.6K $\frac{1}{4}$ W 5%
76	470-0103	16	Resistor, 10K $\frac{1}{4}$ W 5%
77	470-0153	2	Resistor, 15K $\frac{1}{4}$ W 5%
78	470-0203	11	Resistor, 20K $\frac{1}{4}$ W 5%
79	470-0223	10	Resistor, 22K $\frac{1}{4}$ W 5%
80	470-0473	12	Resistor, 47K $\frac{1}{4}$ W 5%
81	470-0513	9	Resistor, 51K $\frac{1}{4}$ W 5%
82	470-0104	8	Resistor, 100K $\frac{1}{4}$ W 5%
83	470-0124	1	Resistor, 120K $\frac{1}{4}$ W 5%
84	470-0154	2	Resistor, 150K $\frac{1}{4}$ W 5%
85	470-0204	1	Resistor, 200K $\frac{1}{4}$ W 5%
86	470-0224	1	Resistor, 220K $\frac{1}{4}$ W 5%
87	470-0244	1	Resistor, 240K $\frac{1}{4}$ W 5%
88	470-0334	2	Resistor, 330K $\frac{1}{4}$ W 5%
89	470-0394	2	Resistor, 390K $\frac{1}{4}$ W 5%
90	470-0474	2	Resistor, 470K $\frac{1}{4}$ W 5%
91	470-0105	4	Resistor, 1M $\frac{1}{4}$ W 5%
92	470-0225	2	Resistor, 2.2M $\frac{1}{4}$ W 5%
93	150-0233	2	Capacitor, E. 1mf 50V NP
94	150-0009	9	Capacitor, E. 1mf 50V U-type
95	150-0023	6	Capacitor, E. 10mf 16V U-type
96	150-0065	10	Capacitor, E. 47mf 16V U-type
97	150-0059	2	Capacitor, E. 100mf 16V U-type
98	150-0159	1	Capacitor, E. 220mf 16V U-type
99	150-0160	1	Capacitor, E. 1470mf 16V U-type
100	150-0168	1	Capacitor, E. 1000mf 16V
101	151-0020	3	Capacitor, Cer. 33pf 50V
102	151-0002	3	Capacitor, Cer. 100pf 50V
103	151-0043	10	Capacitor, Cer. 220pf 50V
104	151-0042	1	Capacitor, Cer. 470pf 50V

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY REQD.</u>	<u>DESCRIPTION</u>
105	151-0005	1	Capacitor, Cer. 680pf 50V
106	151-0074	3	Capacitor, Cer. 0.0022mf 25V
107	151-0011	94	Capacitor, Cer. 0.01mf 50V
108	151-0056	21	Capacitor, Cer. 0.047mf 50V
109	151-0041	2	Capacitor, Cer. 0.1mf 25V
110	152-0063	1	Capacitor, Film, 0.0015mf 50V
111	152-0051	1	Capacitor, Film, 0.0033mf 50V
112	152-0026	1	Capacitor, Film, 0.0039mf 100V
113	152-0036	2	Capacitor, Film, 0.0068mf 50V
114	152-0033	1	Capacitor, Film, 0.01mf 50V
115	152-0079	2	Capacitor, Film, 0.022mf 50V
116	152-0035	6	Capacitor, Film, 0.033mf 50V
117	152-0038	2	Capacitor, Film, 0.047mf 50V
118	152-0066	3	Capacitor, Film, 0.068mf 25V
119	152-0031	6	Capacitor, Film, 0.1mf 50V
120	153-0070	4	Capacitor, Tant. 1mf 16V
121	153-0058	1	Capacitor, Tant. 2.2mf 16V
122	153-0050	1	Capacitor, Tant. 33mf 16V
123	150-0031	2	Capacitor, E. 470mf 16V T-type
124	220-0218	1	Volume Control, 20K
125	477-0005	3	Resistor Pack, 8 X 4.7K 1/8W w/c
126	477-0039	2	Resistor Pack, 8 X 1K 1/8W w/c
127	477-0047	5	Resistor Pack, 4 X 100 ohm 1/4W
128	481-0213	12	Diode, IS2075
129	482-0037	5	Transistor 2SA564Q
130	482-0057	2	Transistor 2SC1384R
131	482-0240	3	Transistor 2SC1684
132	509-0156	1	DIP Switch 1 Position
133	510-0049	2	DIP Switch 8 Position
134	510-0053	1	Push Button Switch
135	180-5002	2	Coil ST-501571
136	270-5001	23	Filter 253D-01
137	270-5002	4	Filter 2535-01
138		2	Screw, M3 X 10 R.H.PHIL w/F.& S.Washer
139		2	Screw, M3 X 6 P.H.PHIL w/F.Washer



VIDEO BOARD ASSEMBLY

DRAWING NUMBER 834-5167

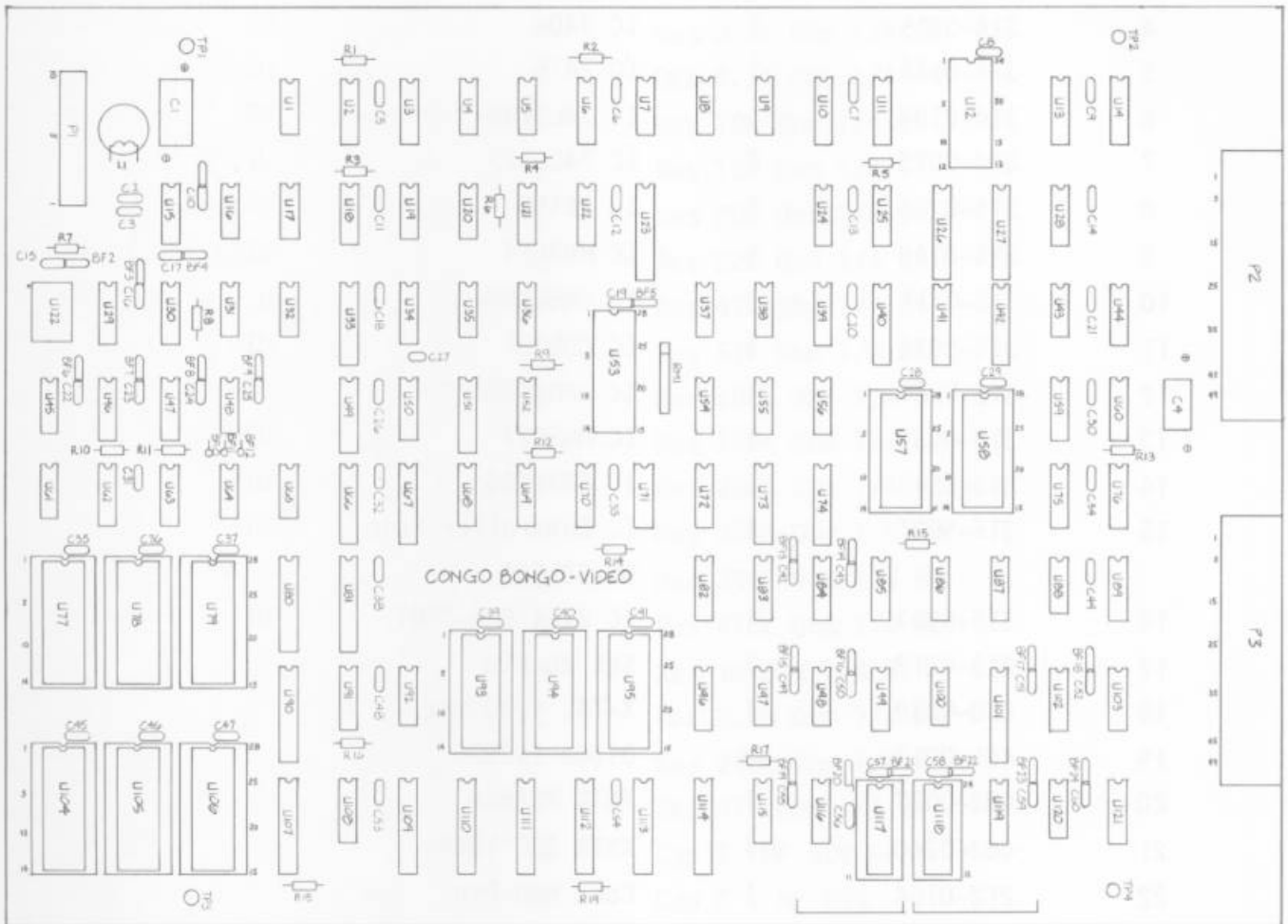
<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY</u> <u>REQ'D</u>	<u>DESCRIPTION</u>	<u>REF NO.</u>
1	171-5026	1	PC Board	
2	316-5296	1	IC 2764 EPR-5296	U57 (ROM 6)
3	316-5297	1	IC 2764 EPR-5297	U58 (ROM 7)
4	316-5298	1	IC 2764 EPR-5298	U93 (ROM 8)
5	316-5299	1	IC 2764 EPR-5299	U94 (ROM 9)
6	316-5300	1	IC 2764 EPR-5300	U95 (ROM 10)
7	316-5301	1	IC 2764 EPR-5301	U77 (ROM 11)
8	316-5302	1	IC 2764 EPR-5302	U78 (ROM 12)
9	316-5303	1	IC 2764 EPR-5303	U79 (ROM 13)
10	316-5304	1	IC 2764 EPR-5304	U104 (ROM 14)
11	316-5305	1	IC 2764 EPR-5305	U105 (ROM 15)
12	316-5306	1	IC 2764 EPR-5306	U106 (ROM 16)
13	315-0065	1	IC 93419	U53
14	315-0219	2	IC AM9122-25 DC	U117, 118
15	315-0220	1	IC MB8128-10	U12
16	314-0018	3	IC 74LS00	U8, 16, 92
17	314-0281	1	IC 74S00	U48
18	314-0019	6	IC 74LS04	U17, 31, 37, 43, 54, 88
19	314-0046	1	IC 74S04	U45
20	314-0058	1	IC 74LS08	U100
21	314-0060	4	IC 74LS20	U9, 19, 32, 62
22	314-0066	1	IC 74LS27	U61
23	314-0067	1	IC 74LS30	U35
24	314-0068	2	IC 74LS32	U28, 56
25	314-0273	1	IC 74S32	U97
26	314-0140	1	IC 74S74	U115
27	314-0062	4	IC 74LS74	U1, 7, 20, 52
28	314-0070	6	IC 74LS86	U4, 5, 38, 55, 64, 65
29	314-0274	2	IC 74S86	U98, 116

VIDEO BOARD ASSEMBLY

DRAWING NUMBER 834-5167

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY</u> <u>REQ'D</u>	<u>DESCRIPTION</u>	<u>REF NO.</u>
30	314-0237	1	IC 74LS109	U63
31	314-0151	2	IC 74S112	U46, 47
32	314-0104	1	IC 74LS138	U34
33	314-0087	1	IC 74LS139	U39
34	314-0076	10	IC 74LS157	U13, 14, 22, 36, 82, 91, 96, 103, 108, 121
35	314-0269	2	IC 74S157	U102, 119
36	314-0097	5	IC 74LS161	U2, 3, 6, 18, 21
37	314-0139	5	IC 74S163	U15, 29, 30, 83, 84
38	314-0072	1	IC 74LS174	U72
39	314-0055	1	IC 74LS244	U33
40	314-0099	1	IC 74LS245	U27
41	314-0276	1	IC 74S260	U120
42	314-0101	15	IC 74LS283	U10, 11, 24, 25, 44, 59, 60, 68, 69, 70, 71, 85, 86, 87, 99
43	314-0122	6	IC 74LS299	U80, 90, 107, 109, 112, 114
44	314-0102	3	IC 74LS367	U75, 76, 89
45	314-0103	1	IC 74LS368	U50
46	314-0275	4	IC 74LS373	U41, 110, 111, 113
47	314-0275	1	IC 74S373	U101
48	314-0093	8	IC 74LS374	U23, 26, 42, 51, 66, 67, 74, 81
49	314-0119	3	IC 74LS377	U40, 49, 73
50	315-5020	1	IC Controller Chip G501533	U122

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY</u> <u>REQ'D</u>	<u>DESCRIPTION</u>	<u>REF NO.</u>
51				
52	213-0011	2	SKT 22 Pin	
53	213-0012	11	SKT 28 Pin	
54	212-0098	1	Conn M 10 Pin	
55	212-0133	2	Conn M 50 Pin	
56	211-0168	4	Conn Pin Test PT	
57	470-0102	19	Res 1K Ohm 1/4W 5%	
58	477-0039	1	Res Pack 8 x 1K Ohm 1/8W W/C	
59	150-0031	2	Cap E 470 MF 16V	
60	151-0043	1	Cap CER 220 PF 50V	
61	151-0074	1	Cap CER 0.0022 MF 25V	
62	151-0041	56*	Cap CER 0.1 MF 25V	
63	180-5002	1	Coil ST-501571	
64	601-5022	21	Filter 253D-01	
65	601-5023	3	Filter 253S-01	



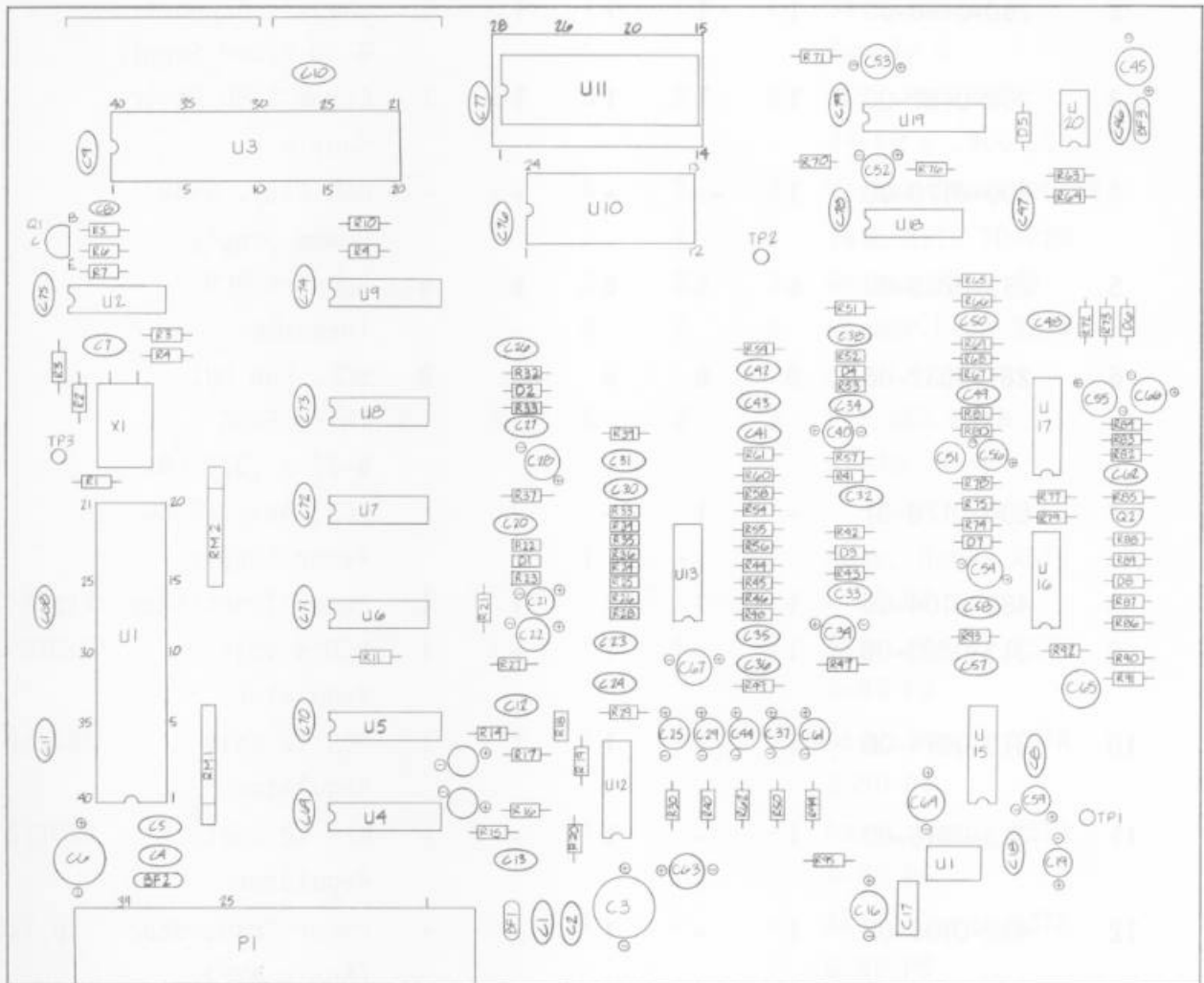
SOUND BOARD ASSEMBLY

DRAWING NUMBER 834-5168

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY</u> <u>REQ'D</u>	<u>DESCRIPTION</u>	<u>REF NO.</u>
1	171-5027	1	PC Board	
2	315-0041	1	IC Z80A	U3
3	315-0152	1	IC 8255A-5	U1
4	314-0015	1	IC 7404	U2
5	314-0146	1	IC 7416	U6
6	314-0104	1	IC 74LS138	U9
7	314-0075	2	IC 74LS393	U7, 8
8	315-0205	2	IC 76489	U4, 5
9	315-0146	4	IC MB3614	U12, 13, 16, 17
10	315-0217	1	IC HM6116P-4	U10
11	315-0034	1	IC CD4001	U18
12	315-0228	1	IC μ PD4538 BC	U19
13	315-0035	1	IC MM5837	U20
14	313-0140	1	IC AN78N06	U14
15	315-5021	1	IC Controller Chip ST-501534	U15
16	316-5307	1	IC 2764 EPR-5307	U11
17	213-0012	1	Skt 28 Pin	
18	230-0039	1	X-TAL 4.00 MHz	
19	481-0213	8	Diode IS2075	
20	482-0037	1	XSTR 2SA564	
21	482-0240	1	XSTR 2SC 1684	
22	212-0164	1	Conn M40 Pin	
23	211-0168	3	Conn Pin Test PT	
24	477-0005	2	Res Pack 8 x 4.7K Ohm 1/8W	
25	470-0100	2	Res 10 Ohm 1/4 5%	
26	470-0220	1	Res 22 Ohm 1/4 5%	
27	470-0221	2	Res 220 Ohm 1/4 5%	
28	470-0331	1	Res 330 Ohm 1/4 5%	
29	470-0102	7	Res 1K Ohm 1/4 5%	

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY</u> <u>REQ'D</u>	<u>DESCRIPTION</u>	<u>REF NO.</u>
30	470-0122	3	Res 1.2K Ohm 1/4 5%	
31	470-0202	2	Res 2K Ohm 1/4 5%	
32	470-0222	1	Res 2.2K Ohm 1/4 5%	
33	470-0332	1	Res 3.3K Ohm 1/4 5%	
34	470-0472	1	Res 4.7K Ohm 1/4 5%	
35	470-0103	13	Res 10K Ohm 1/4 5%	
36	470-0153	2	Res 15K Ohm 1/4 5%	
37	470-0203	8	Res 20K Ohm 1/4 5%	
38	470-0223	10	Res 22K Ohm 1/4 5%	
39	470-0473	12	Res 47K Ohm 1/4 5%	
40	470-0513	8	Res 51K Ohm 1/4 5%	
41	470-0104	5	Res 100K Ohm 1/4 5%	
42	470-0154	1	Res 150K Ohm 1/4 5%	
43	470-0204	1	Res 200K Ohm 1/4 5%	
44	470-0334	1	Res 330K Ohm 1/4 5%	
45	470-0394	2	Res 390K Ohm 1/4 5%	
46	470-0474	2	Res 470K Ohm 1/4 5%	
47	470-0105	3	Res 1M Ohm 1/4 5%	
48	470-0225	2	Res 2.2M Ohm 1/4 5%	
49	470-0244	1	Res 240K Ohm 1/4 5%	
50	470-0471	1	Res 470 Ohm 1/4 5%	
51	150-	2	Cap E IMF 50V NP	
52	150-0009	8	Cap E 1 MF 50V	
53	150-0023	2	Cap E 10 MF 16V	
54	150-0065	10	Cap E 47 MF 16V	
55	150-0159	2	Cap E 220 MF 16V	
56	150-0160	1	Cap E 470 MF 16V	
57	151-0020	1	Cap CER 33 PF 50V	
58	151-0043	1	Cap CER 220 PF 50V	
59	151-0042	1	Cap CER 470 PF 50V	
60	151-0005	1	Cap CER 680 PF 50V	

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY</u> <u>REQ'D</u>	<u>DESCRIPTION</u>	<u>REF NO.</u>
61	151-0074	2	Cap CER 0.0022 MF 25V	
62	151-0011	1	Cap CER 0.1 MF 50V	
63	151-0041	20*	Cap CER 0.1 MF 25V	
64	152-0063	1	Cap Film 0.0015 MF 50V	
65	152-0051	1	Cap Film 0.0033 MF 50V	
66	152-0026	1	Cap Film 0.0039 MF 100V	
67	152-0036	2	Cap Film 0.0068 MF 50V	
68	152-0033	1	Cap Film 0.01 MF 50V	
69	152-0079	2	Cap Film 0.022 MF 50V	
70	152-0035	6	Cap Film 0.033 MF 50V	
71	152-0038	2	Cap Film 0.047 MF 50V	
72	152-0066	3	Cap Film 0.068 MF 25V	
73	152-0031	4	Cap Film 0.1 MF 50V	
74	153-0070	4	Cap Tant 1 MF 16V	
75	153-0058	1	Cap Tant 2.2 MF 10V	
76	153-0050	1	Cap Tant 33 MF 16V	
77	601-5022	3	Filter 253D-01	



G-80 POWER SUPPLY ASSEMBLY

DRAWING NUMBER 800-0191

ITEM NO.	PART NO.	QTY. REQD.					DESCRIPTION	REF DES.
		-00	-01	-02	-03	-04		
1	530-0016-00	1	1	1	1	1	Heat Sink G-80 Power Supply	
2	250-0460-00	1	1	1	1	1	Chassis Support G-80 Power Supply	
3	250-0461-00	1	1	1	1	1	Cover G-80 Power Supply	
4	800-0170-00	1	-	-	-	-	PCB Assy. G-80 Power Supply	
5	253-0206-00	6	6	6	6	6	Support PCB Threaded	
6	281-0032-06	8	8	8	8	8	SCR. PNH PHIL Third FRMG 6-32 x .375 LG.	
7	800-0170-01	-	1	-	-	-	PCB, Assy. G-80 Power Supply	
8	482-0104-00	1	1	1	1	1	Power Transistor	Tip 141
9	313-0023-00	1	-	1	-	1	NEG 5 Volt Regulator	320T5
10	313-0014-00	1	1	1	1	1	POS 12 Volt Regulator	340T12
11	313-0015-00	1	-	1	-	-	NEG 12 Volt Regulator	320T12
12	482-0100-00	1	-	1	-	-	Power Transistor (Audio AMP)	Tip 125
13	482-0019-00	1	-	1	-	-	Power Transistor (Audio AMP)	Tip 120
14	800-0170-02	-	-	1	-	-	PCB Assy. G-80 Power Supply	
15	800-0170-03	-	-	-	1	-	PCB Assy. G-80 Power Supply	
16	420-0557-00	1	1	1	1	1	Decal, Fuse	

G-80 POWER SUPPLY ASSEMBLY

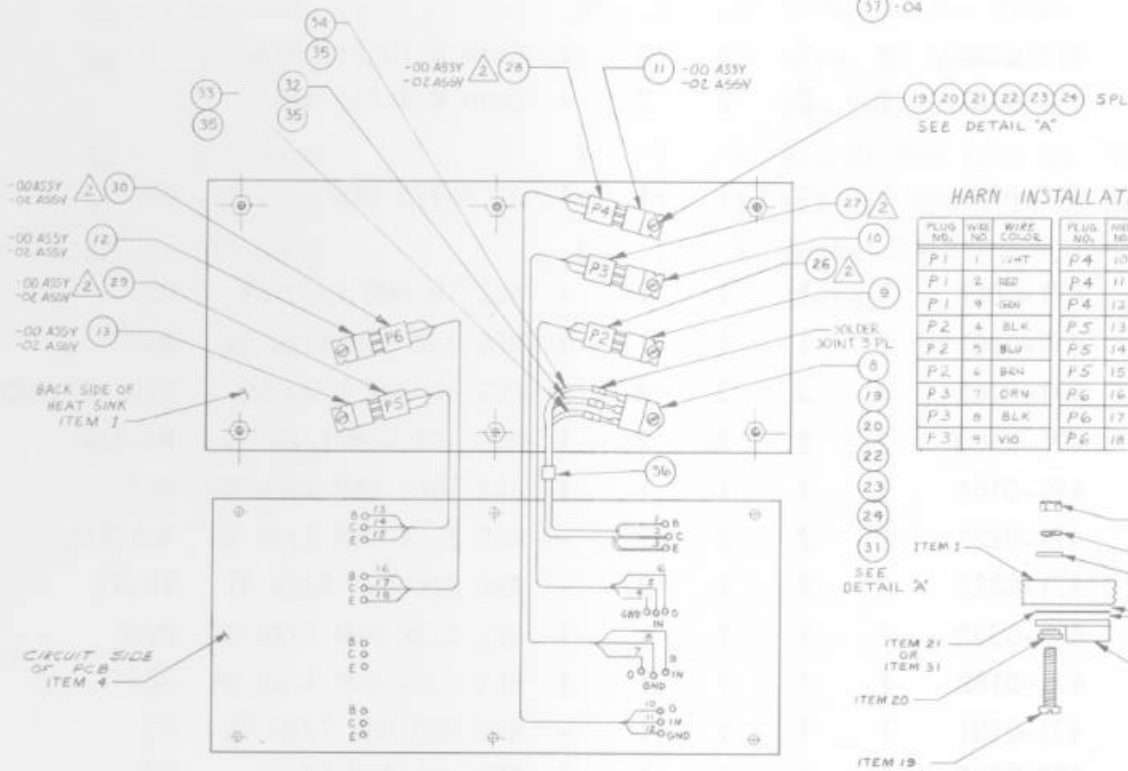
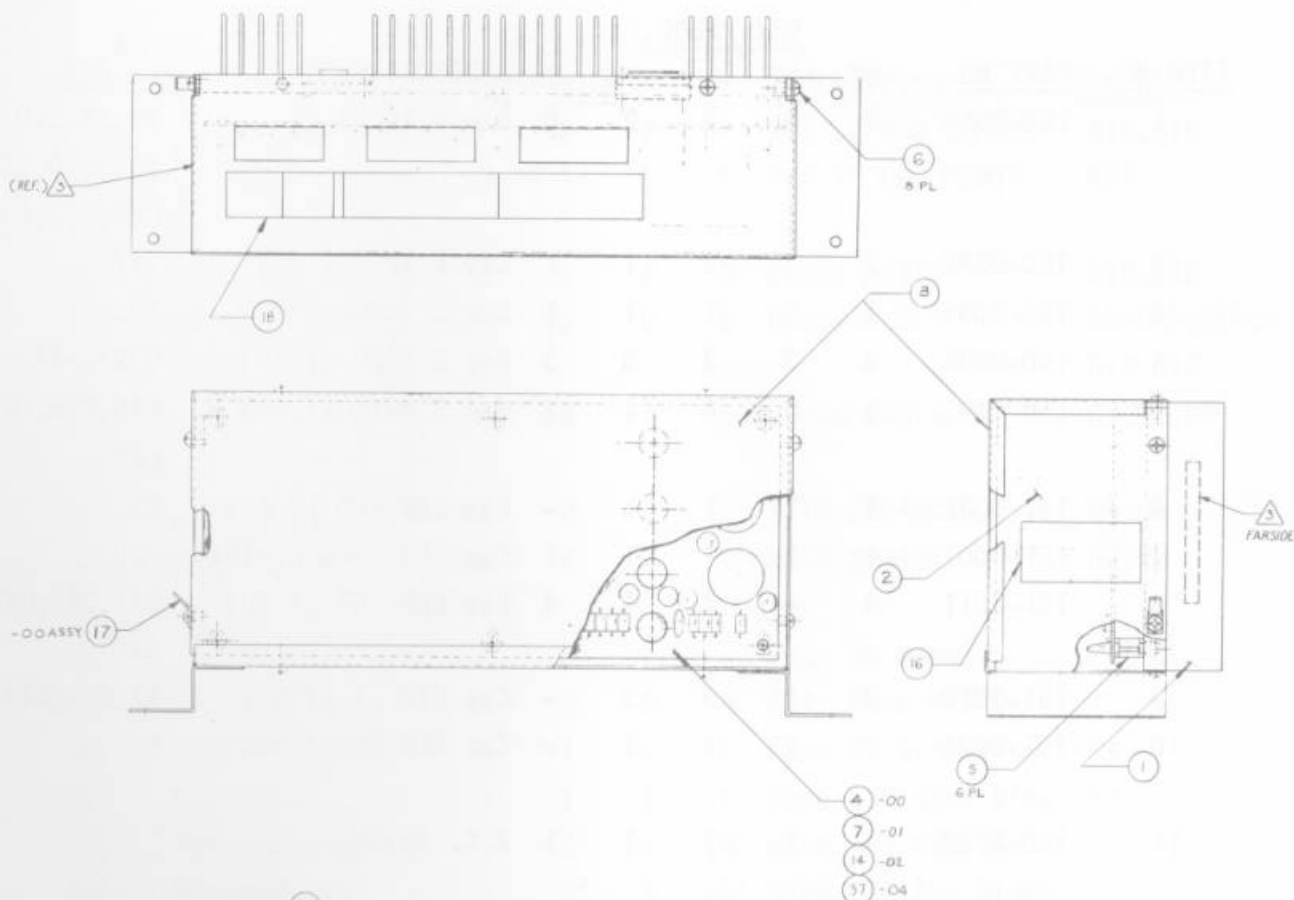
DRAWING NUMBER 800-0191

ITEM NO.	PART NO.	QTY. REQD.					DESCRIPTION	REF DES.
		-00	-01	-02	-03	-04		
17	280-0117-00	1	-	-	-	-	Tab Rivet, Male 1/4"	
18	420-0575-00	1	1	1	1	1	Decal-Power Supply B	
19	281-0001-08	6	2	6	2	3	SCR, PNH PHIL #4-40 x .500 LG	
20	280-0341-00	6	2	6	2	3	Washer Shoulder #4	
21	310-0006-01	5	1	5	1	1	INSL XSTR T0-220	
22	283-0060-13	6	2	6	2	3	Washer Flat #4	
23	283-0061-02	6	2	6	2	3	Washer Lock Split #4	
24	283-0072-07	6	2	6	2	3	Nut HEX Mach #4-40	
25								
26	800-0244-00	1	-	1	-	1	Assy. Harn. XSTR G-80 P2	
27	800-0245-00	1	1	1	1	1	Assy. Harn. XSTR G-80 P3	
28	800-0246-00	1	-	1	-	-	Assy. Harn. XSTR G-80 P4	
29	800-0247-00	1	-	1	-	-	Assy. Harn. XSTR G-80 P5	
30	800-0248-00	1	-	1	-	-	Assy. Harn. XSTR G-80 P6	
31	310-0007-01	1	1	1	1	1	Ins1. XSTR "H" (T0-218)	
32	600-0092-42	.38'	.38'	.38'	.38'	.38'	Wire 22 AWG Red	
33	600-0092-45	.38'	.38'	.38'	.38'	.38'	Wire 22 AWG Green	
34	600-0092-44	.38'	.38'	.38'	.38'	.38'	Wire 22 AWG White	
35	310-0041-02	.25'	.25'	.25'	.25'	.25'	Shrink Tubing, .125 I.D. CLR	
36	280-0005-00	1	1	1	1	1	Cable Tie Standard	

G-80 POWER SUPPLY ASSEMBLY

DRAWING NUMBER 800-0191

ITEM NO.	PART NO.	QTY. REQD.					DESCRIPTION	REF DES.
		-00	-01	-02	-03	-04		
37	800-0170-04	-	-	-	-	1	PC Assy. G-80 Power Supply	
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								



HARN INSTALLATION

PLUG NO.	WIRE NO.	WIRE COLOR	PLUG NO.	WIRE NO.	WIRE COLOR
P1	1	WHT	P4	10	WHT/RED
P1	2	RED	P4	11	WHT/GRN
P1	9	GRN	P4	12	BLK
P2	4	BLK	P5	13	GRN
P2	5	BLU	P5	14	RED
P2	6	BRN	P5	15	WHT
P3	7	GRN	P6	16	BRN
P3	8	BLK	P6	17	BLU
P3	9	VIO	P6	18	YEL

G-80 POWER SUPPLY P.C. ASSEMBLY

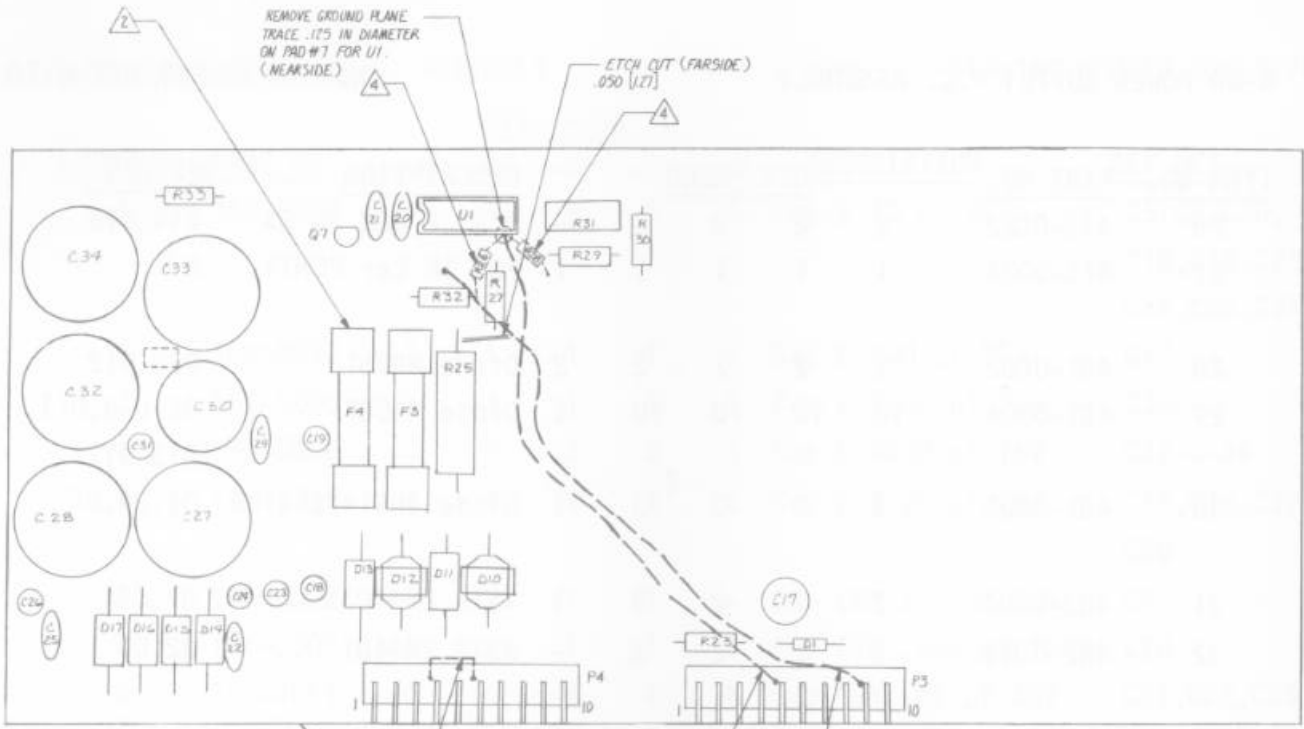
DRAWING NUMBER 800-0170

ITEM NO.	PART NO.	QTY. REQD.					DESCRIPTION	REF DES.
		-0C	-01	-02	-03	-04		
1	150-0088	9	9	9	9	6	Cap E 10 μ f 25V	C5,C8,C10, C18,C19,C23, C24,C26,C31
2	150-0092	1	1	1	1	1	Cap E 100 μ f 25V	C17
3	150-0095	1	1	1	1	1	Cap E 3300 μ f 25V	C30
4	150-0096	3	3	3	3	3	Cap E 6800 μ f 16V	C32-C-34
5	150-0097	4	4	4	4	2	Cap E 4700 μ f 25V	C15,C16,C27, C28
6	151-0002	1	1	1	1	-	Cap CER 100 μ f 50V	C9
7	151-0007	1	1	1	1	1	Cap CER .005 μ f 100V	C20
8	151-0011	4	4	4	4	4	Cap CER .01 μ f 50V	C21,C22,C25, C29
9	151-0012	3	3	3	3	-	Cap CER .1 μ f 50V	C2,C13,C14
10	151-0021	1	1	1	1	-	Cap CER 20 pf 50V	C7
11	170-0222	1	1	1	1	1	P.C. Board	
12	212-0020	2	2	2	2	2	Conn M 10 Pin RTA	
13	212-0081	2	2	2	2	-	Conn M 4 Pin RTA	
14	313-0001	1	1	1	1	1	IC LM723 Dip	U1
15	471-0011	1	1	1	1	-	RES 10 OHM 1/2W 5%	R2
16	471-0101	1	1	1	1	1	RES 100 OHM 1/2W 5%	R32
17	471-0102	3	3	3	3	2	RES 1K OHM 1/2W 5%	R10,R27,R29
18	471-0103	2	2	2	2	1	RES 10K OHM 1/2W 5%	R6,R30
19	471-0104	1	1	1	1	1	RES 100K OHM 1/2W 5%	R23
20	471-0222	2	2	2	2	-	RES 2.2K OHM 1/2W 5%	R21,R22
21	471-0223	2	2	2	2	-	RES 22K OHM 1/2W 5%	R5,R9
22	471-0332	1	1	1	1	1	RES 3.3K OHM 1/2W 5%	R28
23	471-0182	1	1	1	1	1	RES 1.8K OHM 1/2W 5%	R26
24	471-0681	1	1	1	1	-	RES 680 OHM 1/2W 5%	R7
25	473-05R0	1	1	1	1	1	RES .05 OHM 5W 3%	R25

G-80 POWER SUPPLY P.C. ASSEMBLY

DRAWING NUMBER 800-0170

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY. REQD.</u>				<u>DESCRIPTION</u>	<u>REF DES.</u>
26	473-00R2	2	2	2	2	- RES .2 OHM 3W 5%	R14,R15
27	475-0004	1	1	1	1	1 POT 1K Car PCMTV	R31
28	481-0002	2	2	2	2	2 Diode MR751	D10,D12
29	481-0004	10	10	10	10	6 Diode MR501	D6-D-9,D11, D13-D17
30	481-0006	3	3	3	3	1 Diode IN914/IN4148	D1,D4,D5
31	482-0006	2	2	2	2	1 XSTR 2N4403	Q1,Q7
32	482-0014	2	2	2	2	- XSTR 2N4401	Q2,Q3
33	514-0002	2	-	2	-	- Fuse 3A Norm.	F1,F2
34	514-0003	8	8	8	8	4 Clip Fuse MTG	
35	514-0001-00	1	-	1	-	1 Fuse 2A Slow Blow	F4
36	514-0073	1	1	1	1	1 Fuse 15A Slow Blow	F3
37	600-0092-49	-	-	.5'	.5'	.5' Wire, 22 AWG White	
38	600-0092-50	-	-	.5'	.5'	.5' Wire, 22 AWG Black	
39	600-0094-04	-	-	1	1	1 Wire, 22 AWG Solid Bus Uninsulated	
40	471-0220	1	1	1	1	- RES 22 OHM 1/2W 5%	R8
41	471-0221	1	1	1	1	1 RES 220 OHM 1/2W 5%	R33
42	213-0003-00	-	-	1	1	1 Socket 14 Pin Socket	V1



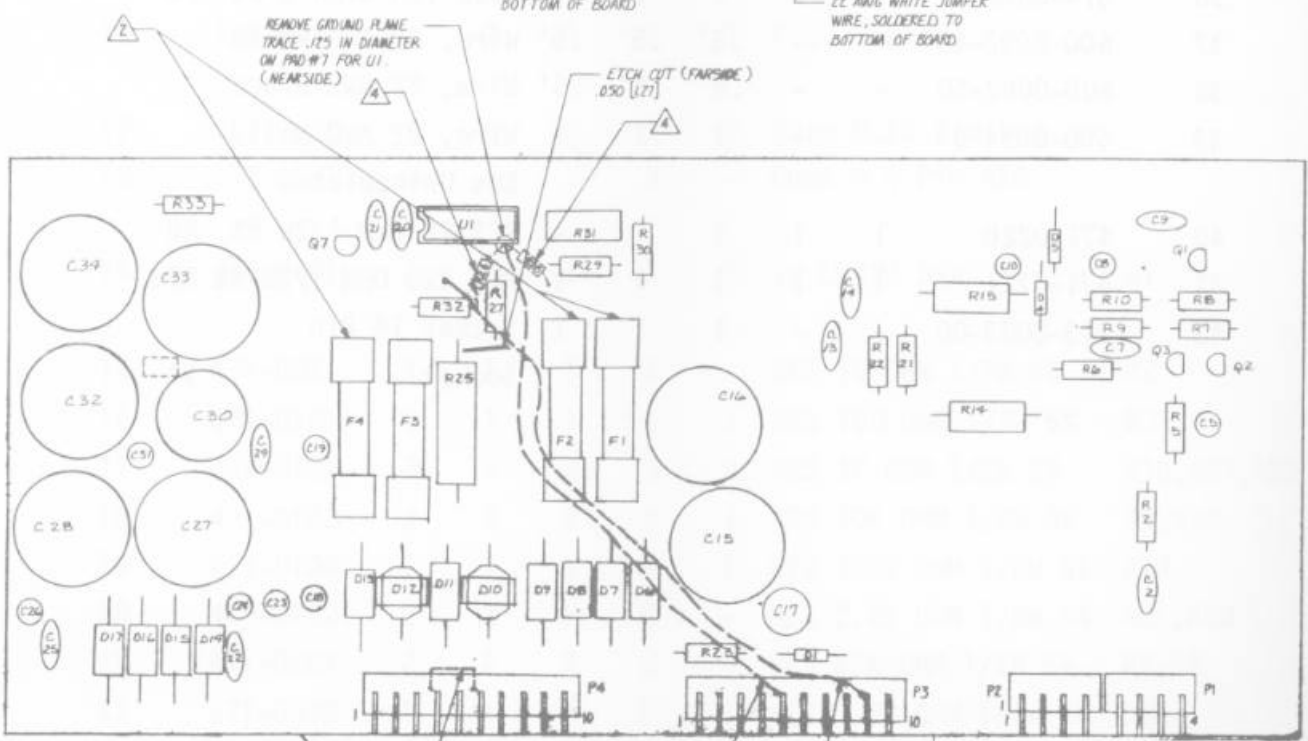
JUMPER 22 AWG BUSS WIRE

11 REF

22 AWG BLACK JUMPER WIRE SOLDERED TO BOTTOM OF BOARD

22 AWG WHITE JUMPER WIRE, SOLDERED TO BOTTOM OF BOARD

-04 ASSY



JUMPER 22 AWG BUSS WIRE

11 REF

22 AWG BLACK JUMPER WIRE SOLDERED TO BOTTOM OF BOARD

22 AWG WHITE JUMPER WIRE, SOLDERED TO BOTTOM OF BOARD

-02 AND -03 ASSY

Schematics

4

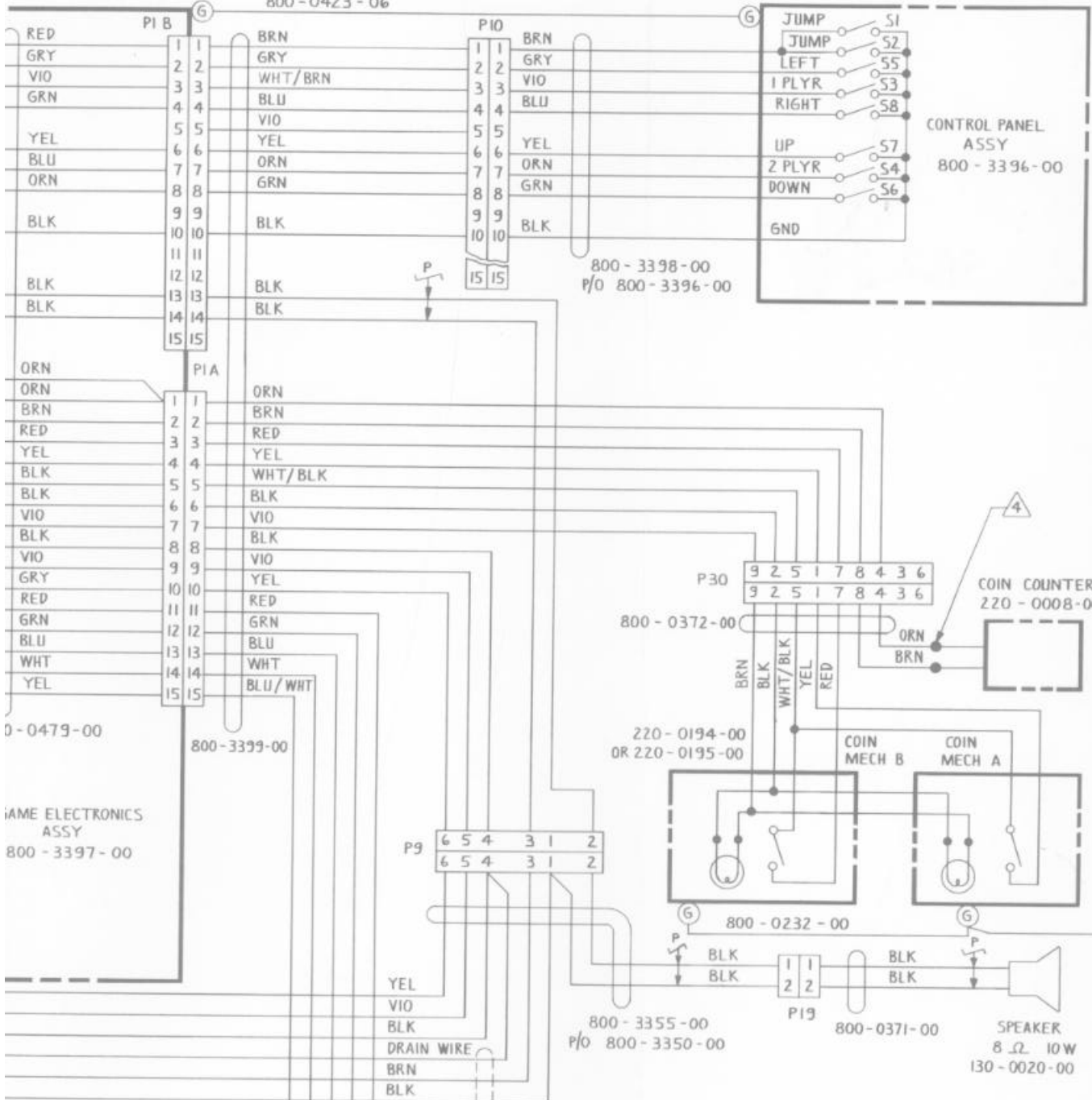
3

2

1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	-	SEE SH # 1		

800-0423-06



D

C

B

A

700-0134

0-0479-00

800-3399-00

AME ELECTRONICS ASSY 800-3397-00

6	5	4	3	1	2
6	5	4	3	1	2

220-0194-00 OR 220-0195-00

800-3355-00 P/O 800-3350-00

800-0232-00

800-0371-00

COIN COUNTER 220-0008-00

COIN MECH B COIN MECH A

SPEAKER 8Ω 10W 130-0020-00

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS ±	DECIMALS .XX ±	ANGLES °		
MATERIAL		APPROVALS	DATE	
FINISH		DRAWN	CHECKED	
NEXT ASSY		MECH	ELEC	
USED ON		MFG	PROJECT	
APPLICATION		DO NOT SCALE DRAWING		

Gremlin/SEGA
San Diego, California 92121

Cabinet Wiring Diagram

SIZE: **D** CODE IDENT NO: **700-0134** DRAWING NO: **700-0134** REV: **A**

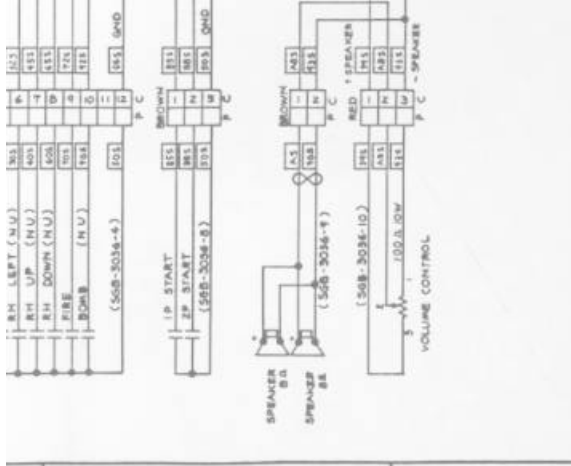
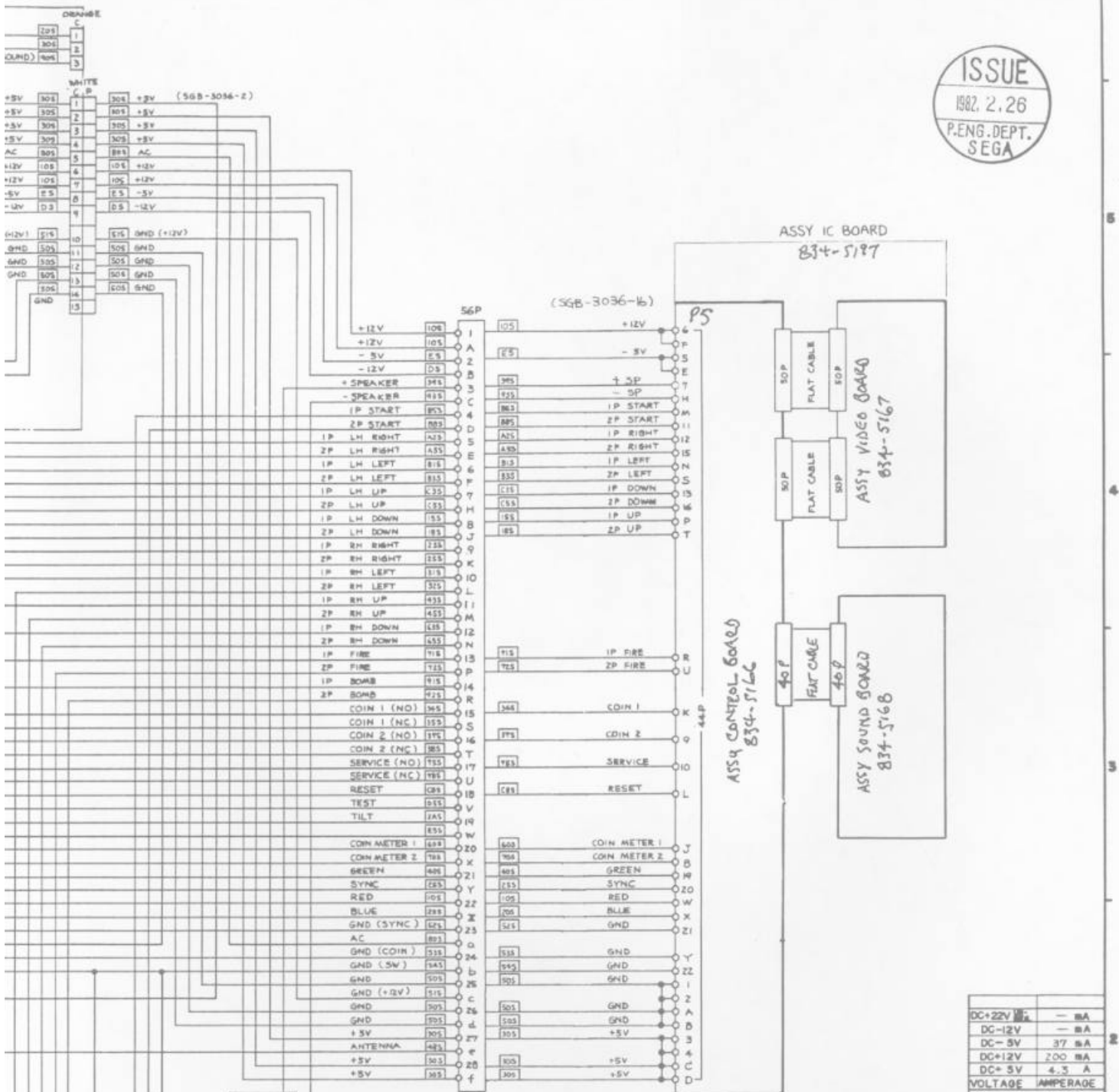
SCALE: SHEET 2 OF 170

4

3

2

1



VOLTAGE	AMPERAGE	WATTAGE
DC+22V	—	—
DC-12V	—	—
DC-5V	37	MA
DC+12V	200	MA
DC+5V	4.3	A

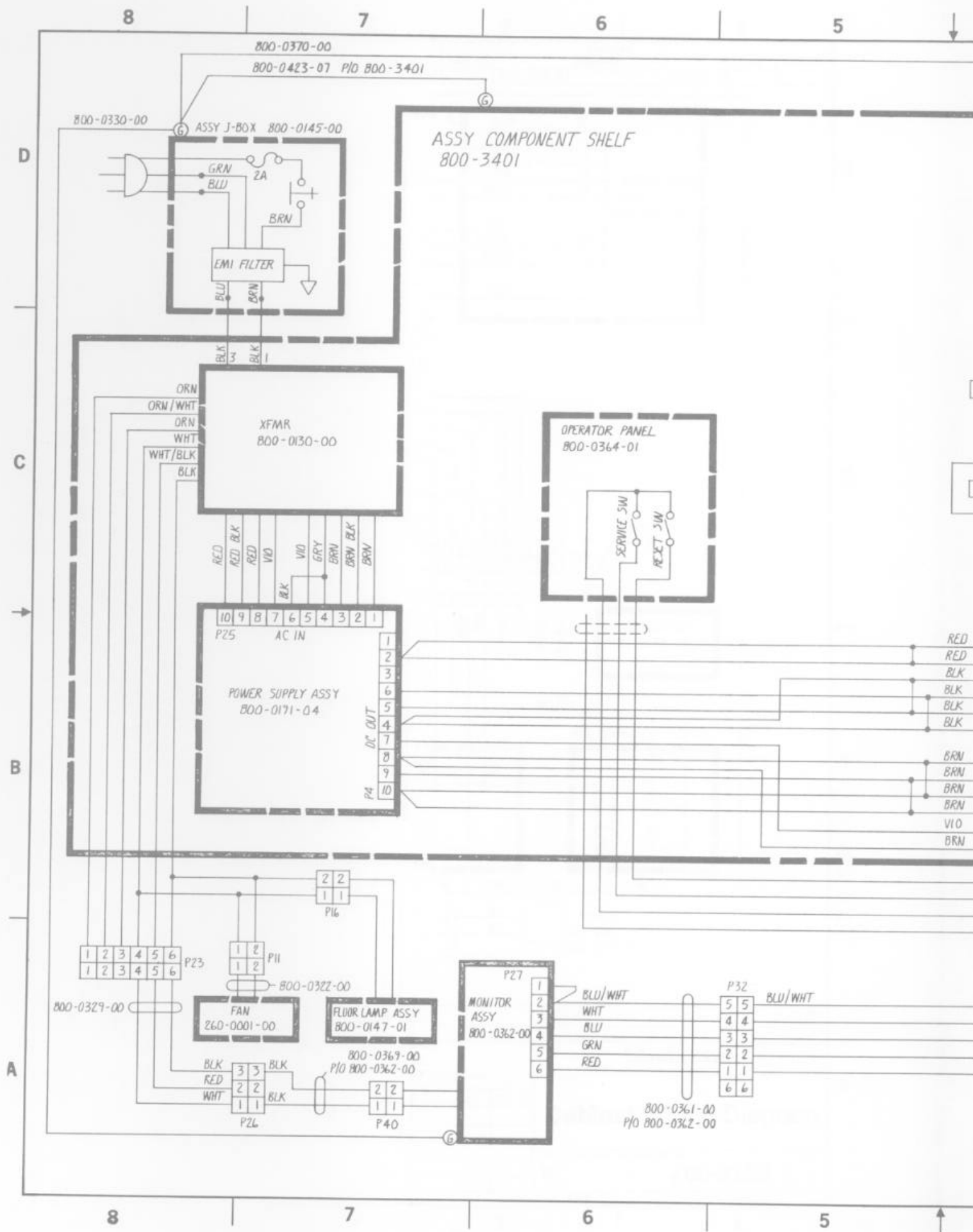
VOLTAGE CONSUMPTION
95-2009

VOLTAGE	120V	200V	220V	230V	240V	100V
AMPERAGE	1.5 A	0.7 A	0.7 A	0.7 A	0.7 A	110 W
WATTAGE	110 W	110 W	110 W	110 W	110 W	110 W

ALTERATION	POWER	POWER CONSUMPTION
S2 WHITE BLUE	⊕	CIRCLE IN THE SWITCH SYMBOLS INDICATES OPERATION BY A MOTOR
S1 WHITE RED	⊕	MAKE AND BREAK SWITCH
S0 WHITE	⊕	NORMALLY CLOSED SWITCH OPEN WHEN ENERGIZED
K 2RD WIRE (LARGE)	⊕	NORMALLY OPEN SWITCH CLOSED WHEN ENERGIZED
L LARGE WIRE	⊕	SWITCH SYMBOLS
J JUMPER WIRE	⊕	APR
E LIGHT BENDER	⊕	ASSY
D PURPLE	⊕	CKD
C BROWN	⊕	DRW 801-226-22
B BKY BLUE	⊕	SGB-3036
A PINK	⊕	
BRAY	⊕	
B BLAS	⊕	
7 ORANGE	⊕	
B HARROOR	⊕	
5 WHITE	⊕	
4 GREEN	⊕	
3 YELLOW	⊕	
2 BLUE	⊕	
1 RED	⊕	
7N/ NOT USED		
RH RIGHT HAND		
LH LEFT HAND		
SOB SOLENOID		
SW SWITCH		
RE RELAY		

COIL LOCATIONS RELAY LOCATIONS ABBREVIATIONS USED WIRE COLOR CODE

Cabinet Wiring Diagram (AC100~240V) 700-0137
DESCRIPTION SCHEMATIC DIAGRAM NO.



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D

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B

A

800-0370-00

800-0423-07 P/O 800-3401

800-0330-00

ASSY J-BOX 800-0145-00

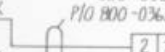
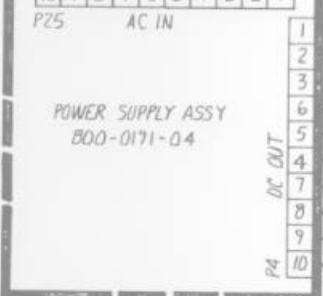
ASSY COMPONENT SHELF
800-3401

EMI FILTER

XFMR
800-0130-00

OPERATOR PANEL
800-0364-01

POWER SUPPLY ASSY
800-0171-04

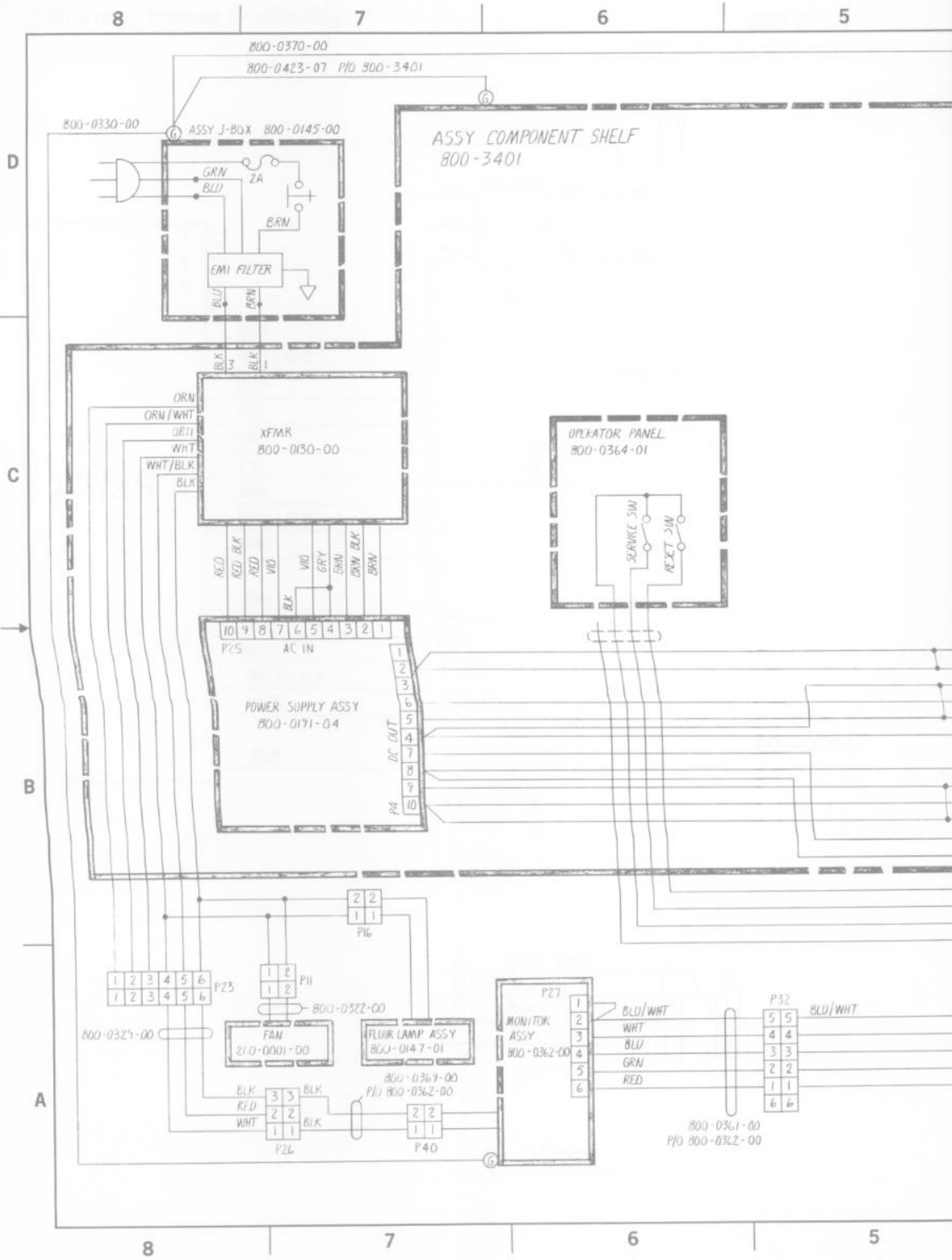


P27

P32

800-0361-00
P/O 800-0362-00

RED
RED
BLK
BLK
BLK
BRN
BRN
BRN
BRN
VIO
BRN



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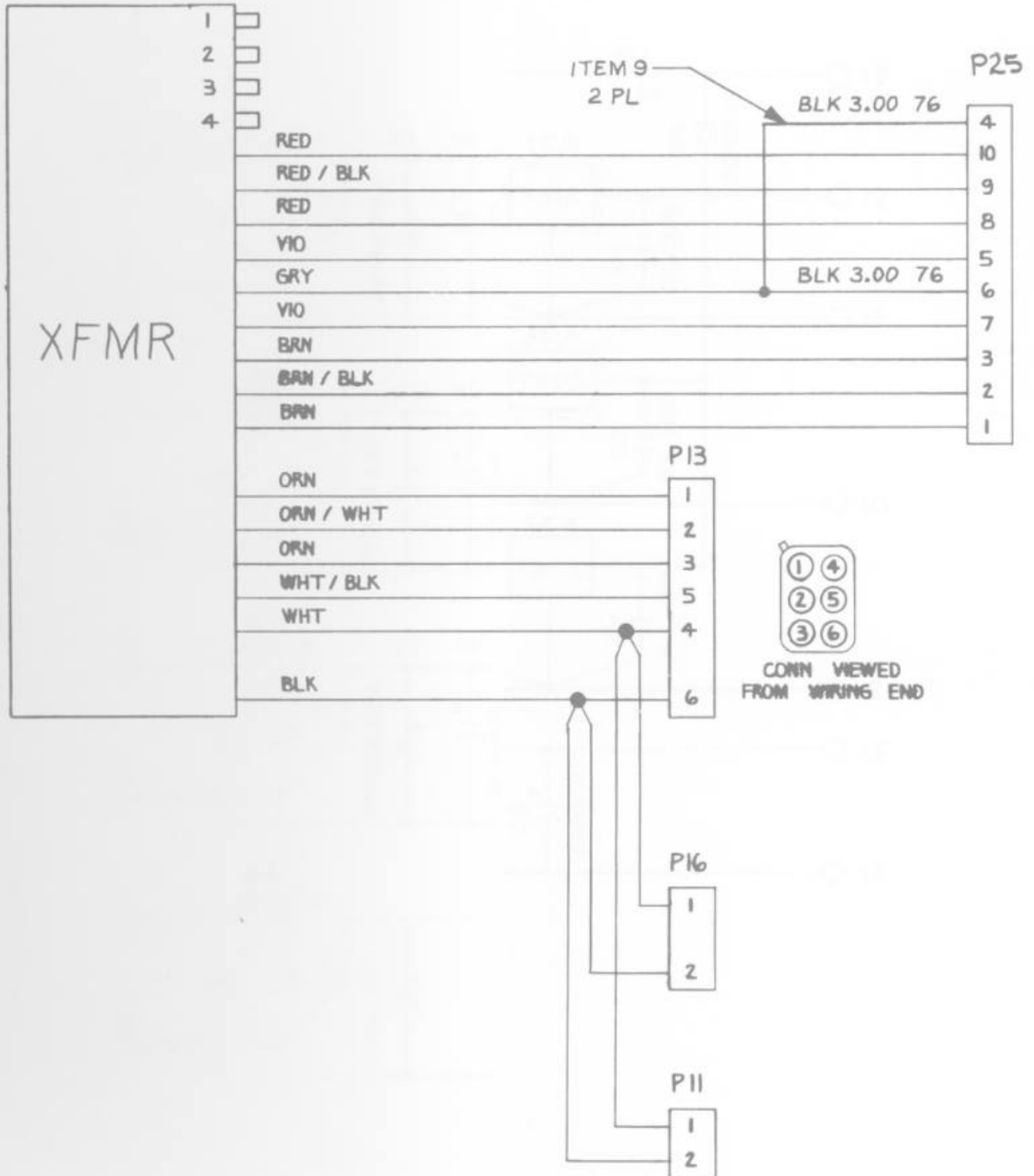
A

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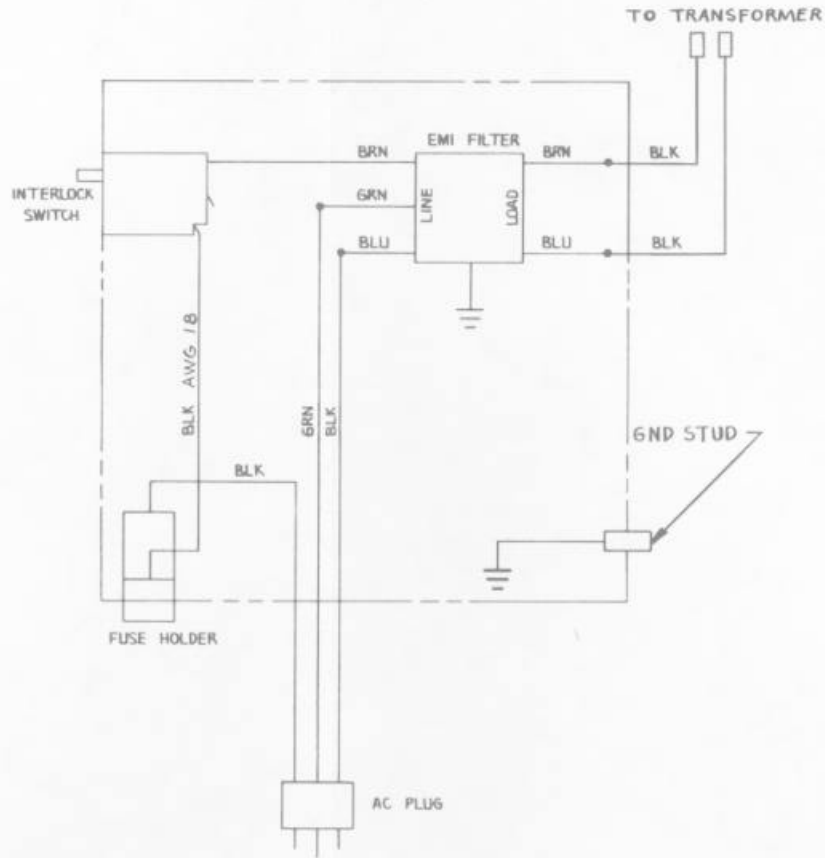
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5



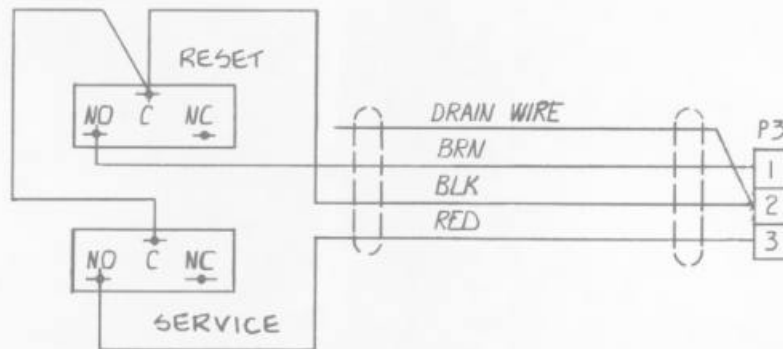
AC Junction Box Assembly

800-0145

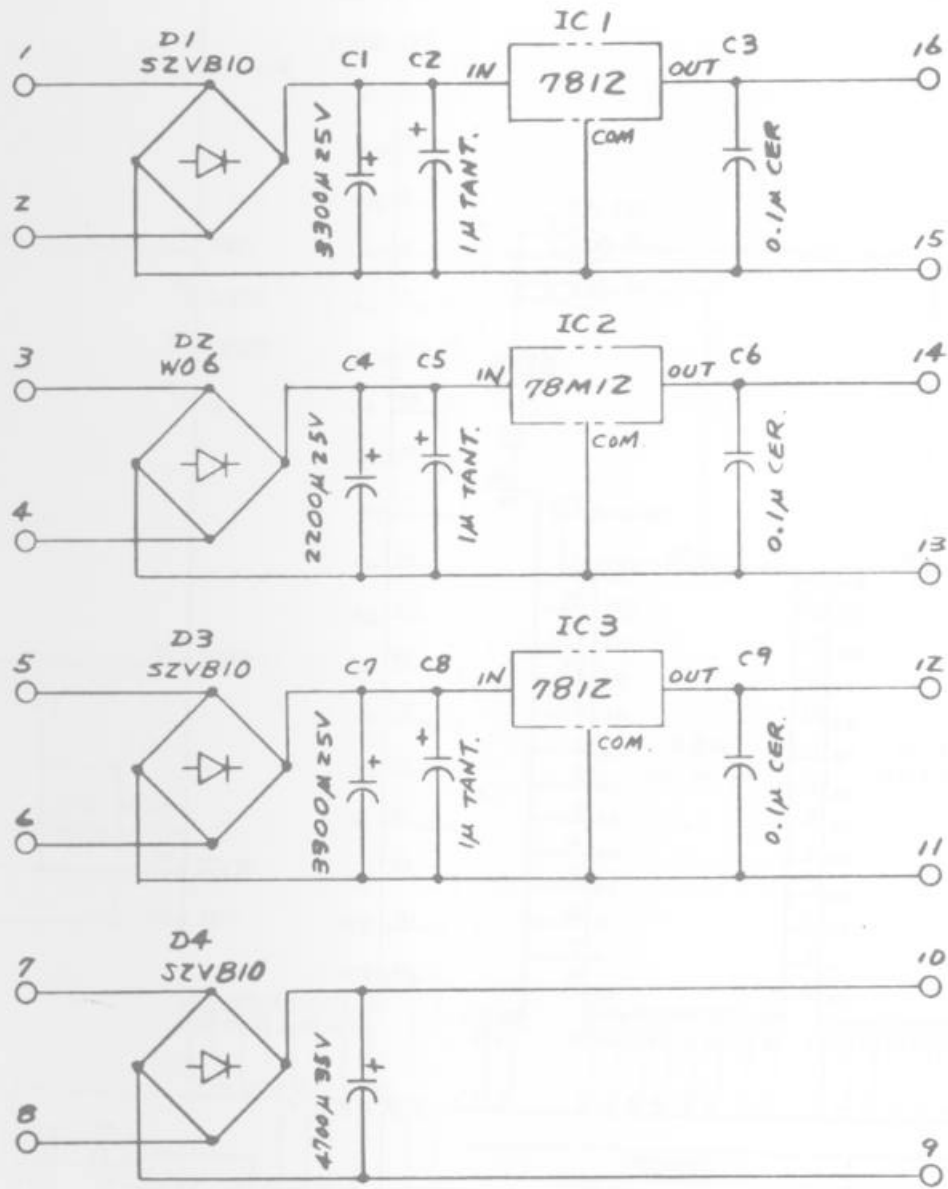


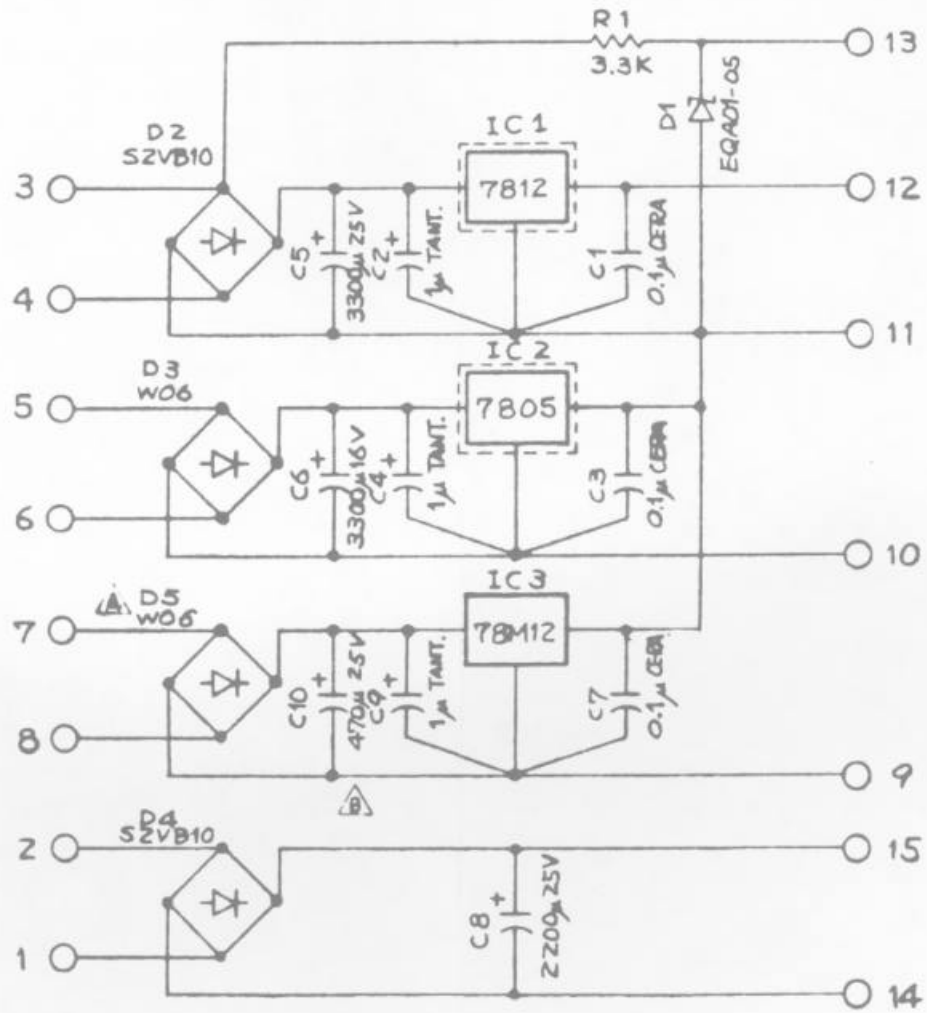
Operator Control Block Assembly

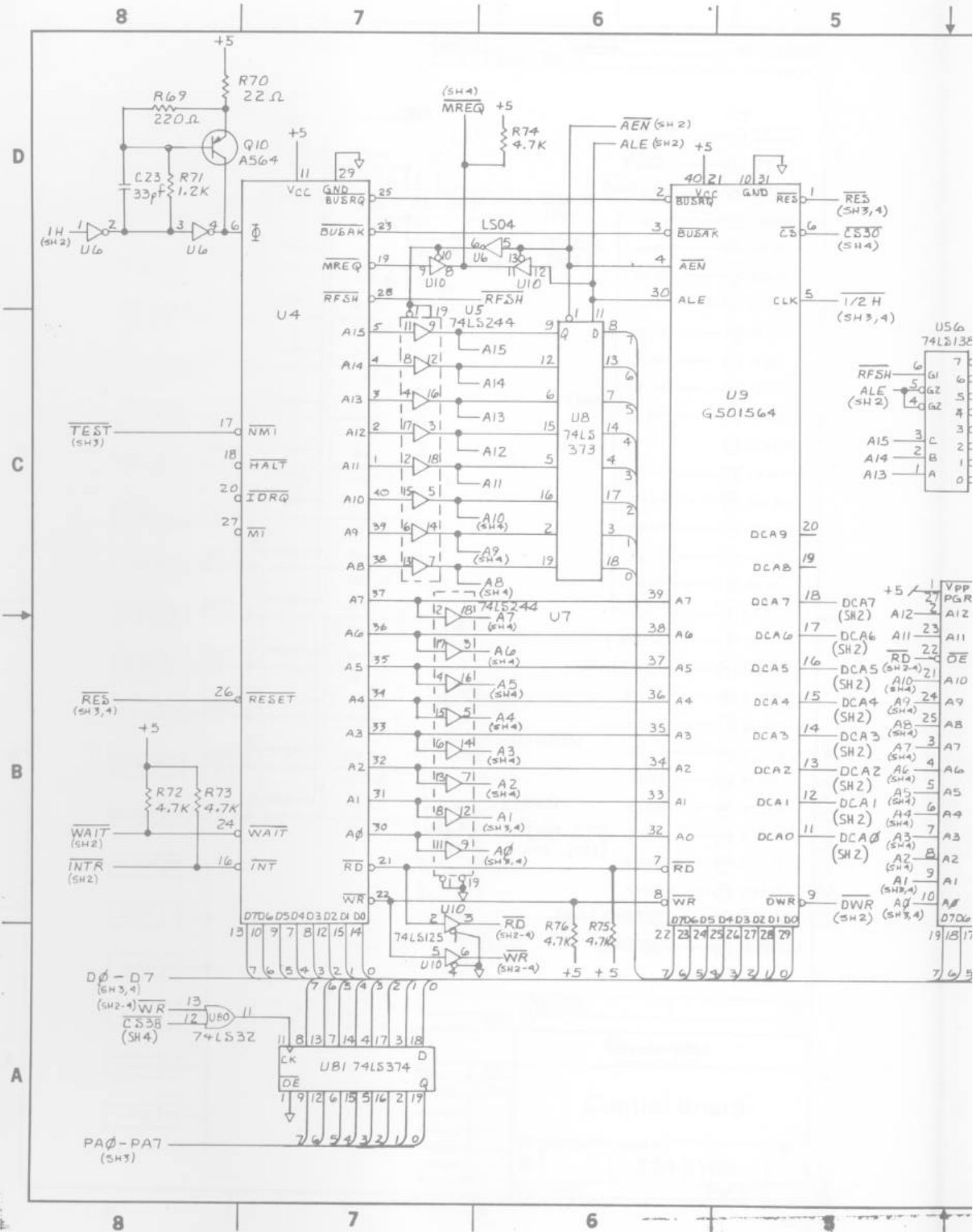
800-0364



-01 ASSY







4

3

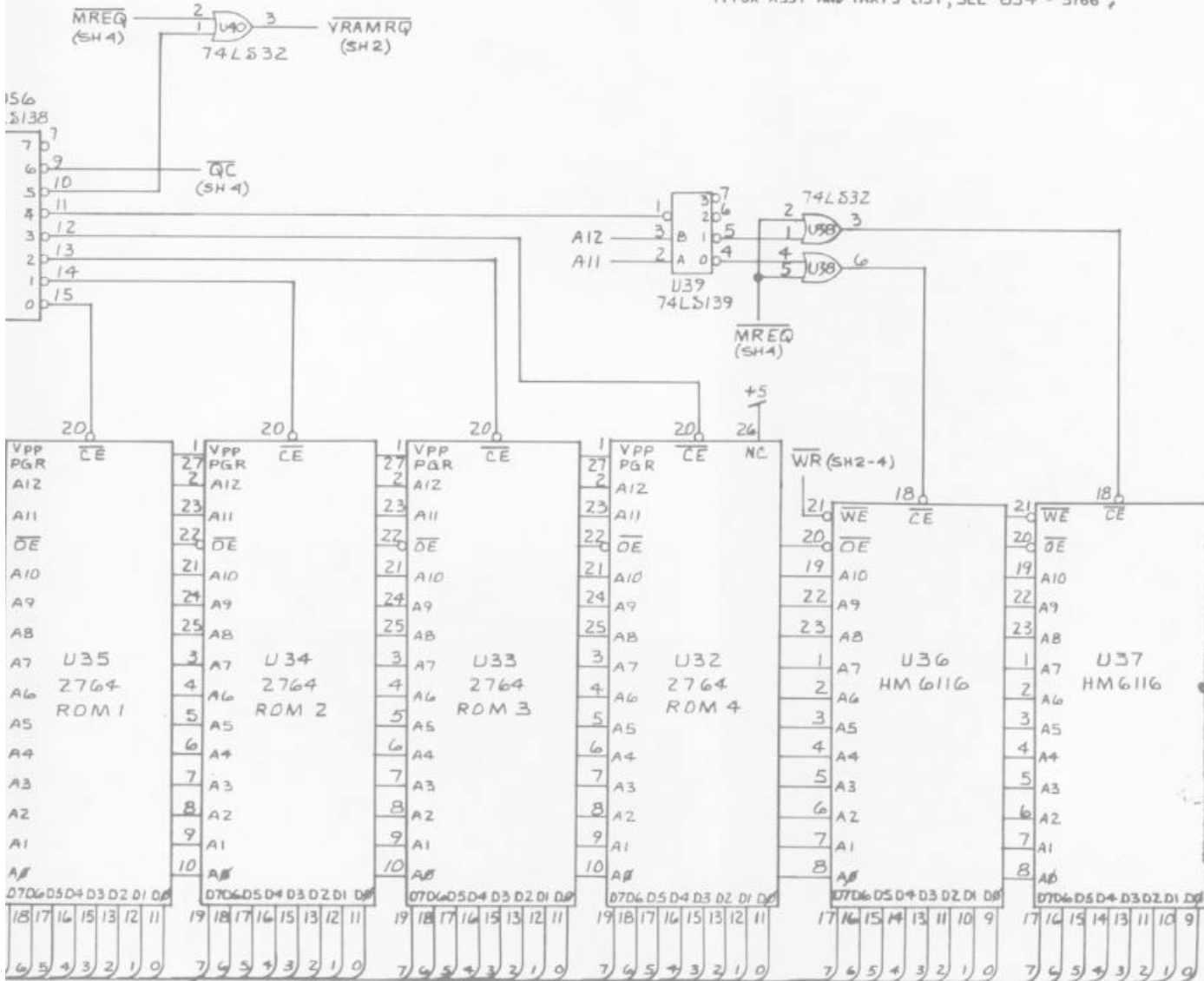
2

1

REV				REV STATUS		REVISIONS				
4	3	2	1	SH	OF SHEETS	ZONE	LTR	DESCRIPTION	DATE	APPROVED
A	A	A	A			A		RELEASED	8-29-83	Ch

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. FOR ASSY AND PARTS LIST, SEE 834 - 5166 ,



QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES		
=	.XX ±	=		
MATERIAL	APPROVALS		DATE	
FINISH	DRAWN <i>Wynema</i>		3-30-88	
NEXT ASSY	CHECKED <i>Al Davis</i>		4-26-83	
USED ON	MECH			
APPLICATION	ELEC			
DO NOT SCALE DRAWING	MPG <i>J. K. Kipka</i>		4-29-83	
	PROJECT <i>Sakawak</i>		4-29-83	
	SCALE NONE		4-29-83	

Control Board

834-5166

REV A

SHEET 1 OF 4

4

3

2

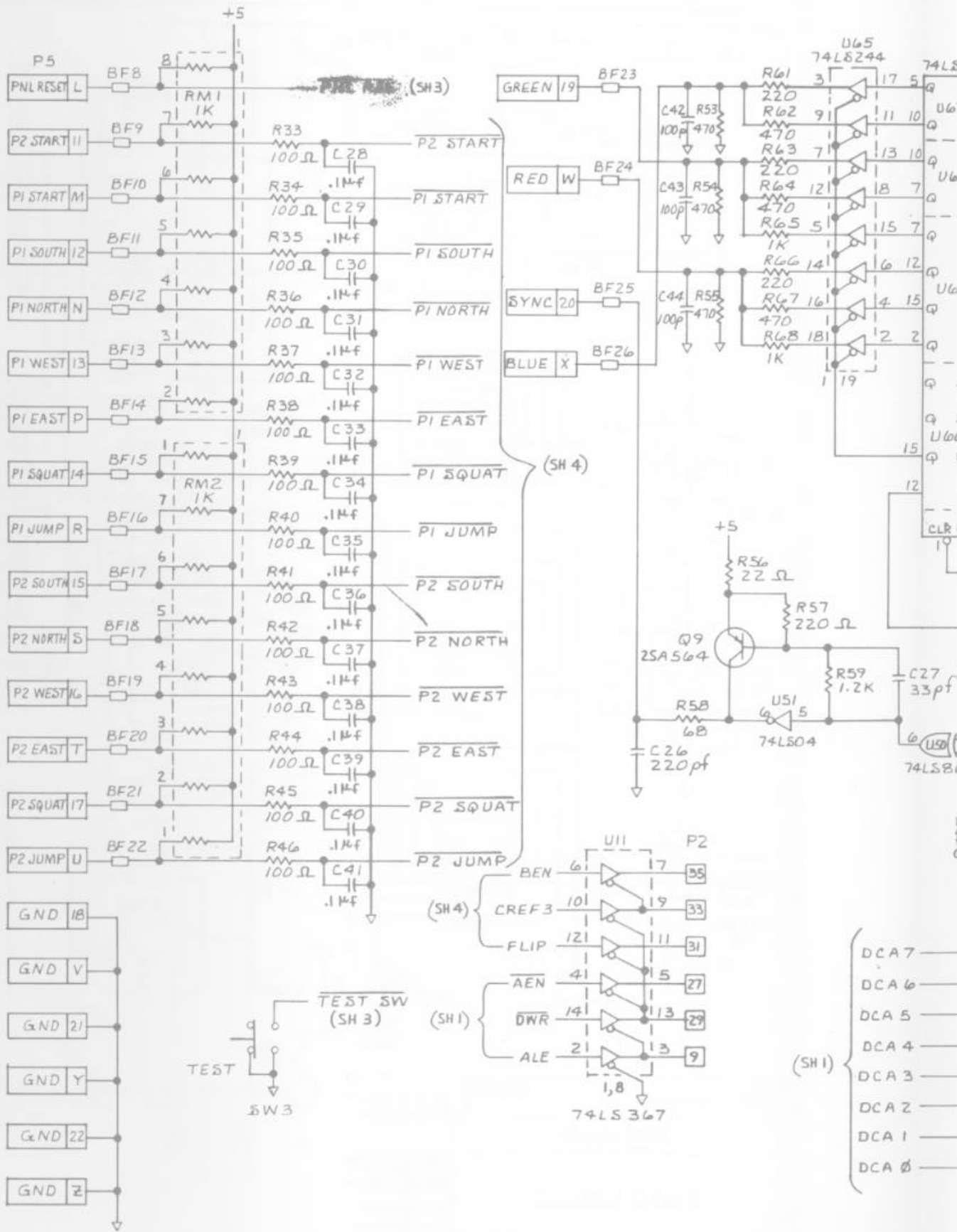
1

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TEST SW (SH 3)

(SH 4)

(SH 4)

(SH 1)

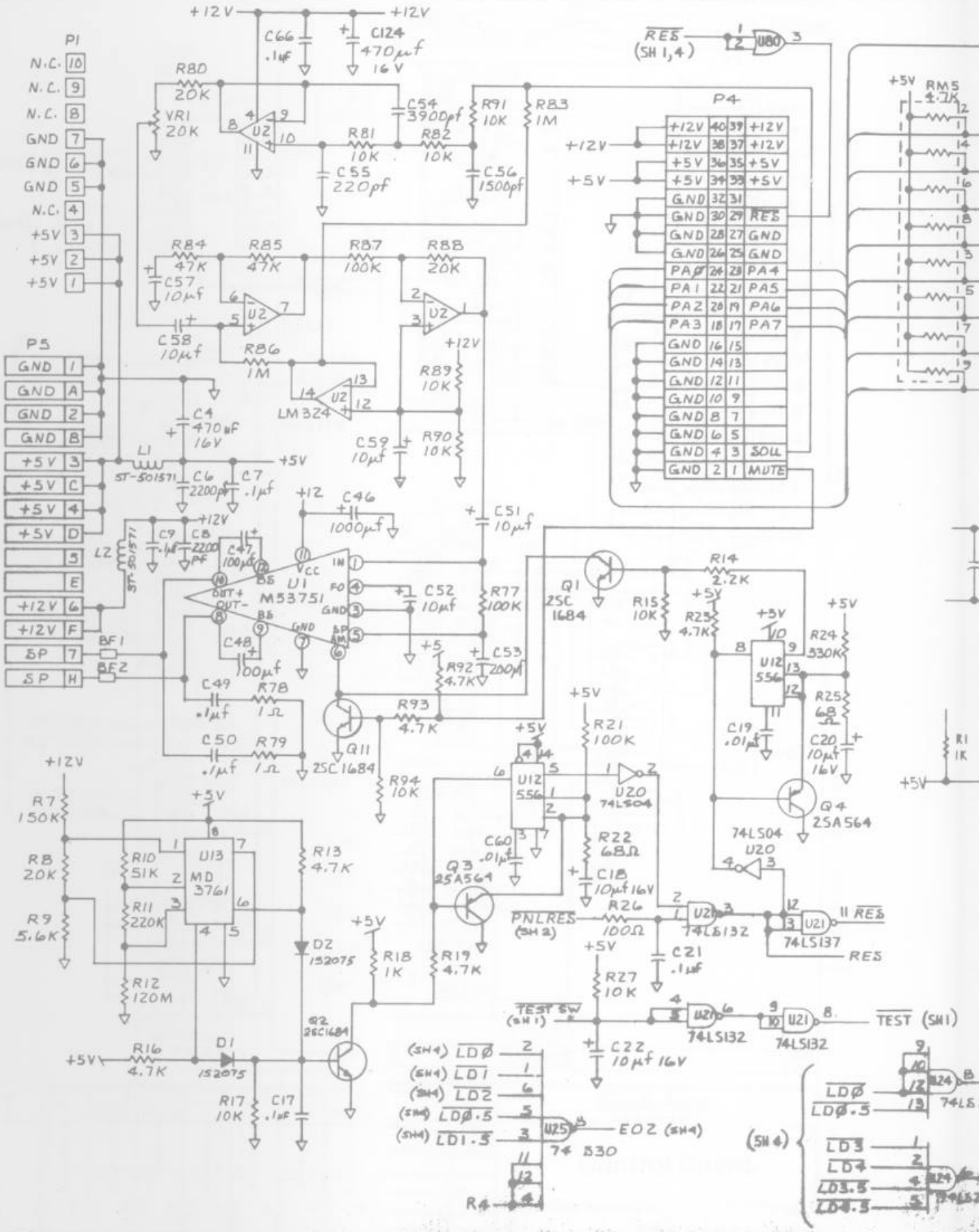
(SH 1)

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P1

N.C.	10
N.C.	9
N.C.	8
GND	7
GND	6
GND	5
N.C.	4
+5V	3
+5V	2
+5V	1

P5

GND	1
GND	A
GND	2
GND	B
+5V	3
+5V	C
+5V	4
+5V	D
	5
	E
+12V	6
+12V	F
SP	7
SP	H

P4

+12V	40	39	+12V
+12V	38	37	+12V
+5V	36	35	+5V
+5V	34	33	+5V
GND	32	31	
GND	30	29	RES
GND	28	27	GND
GND	26	25	GND
PA7	24	23	PA4
PA1	22	21	PAS
PA2	20	19	PAG
PA3	18	17	PA7
GND	16	15	
GND	14	13	
GND	12	11	
GND	10	9	
GND	8	7	
GND	6	5	
GND	4	3	SOIL
GND	2	1	MUTE

(SM4)

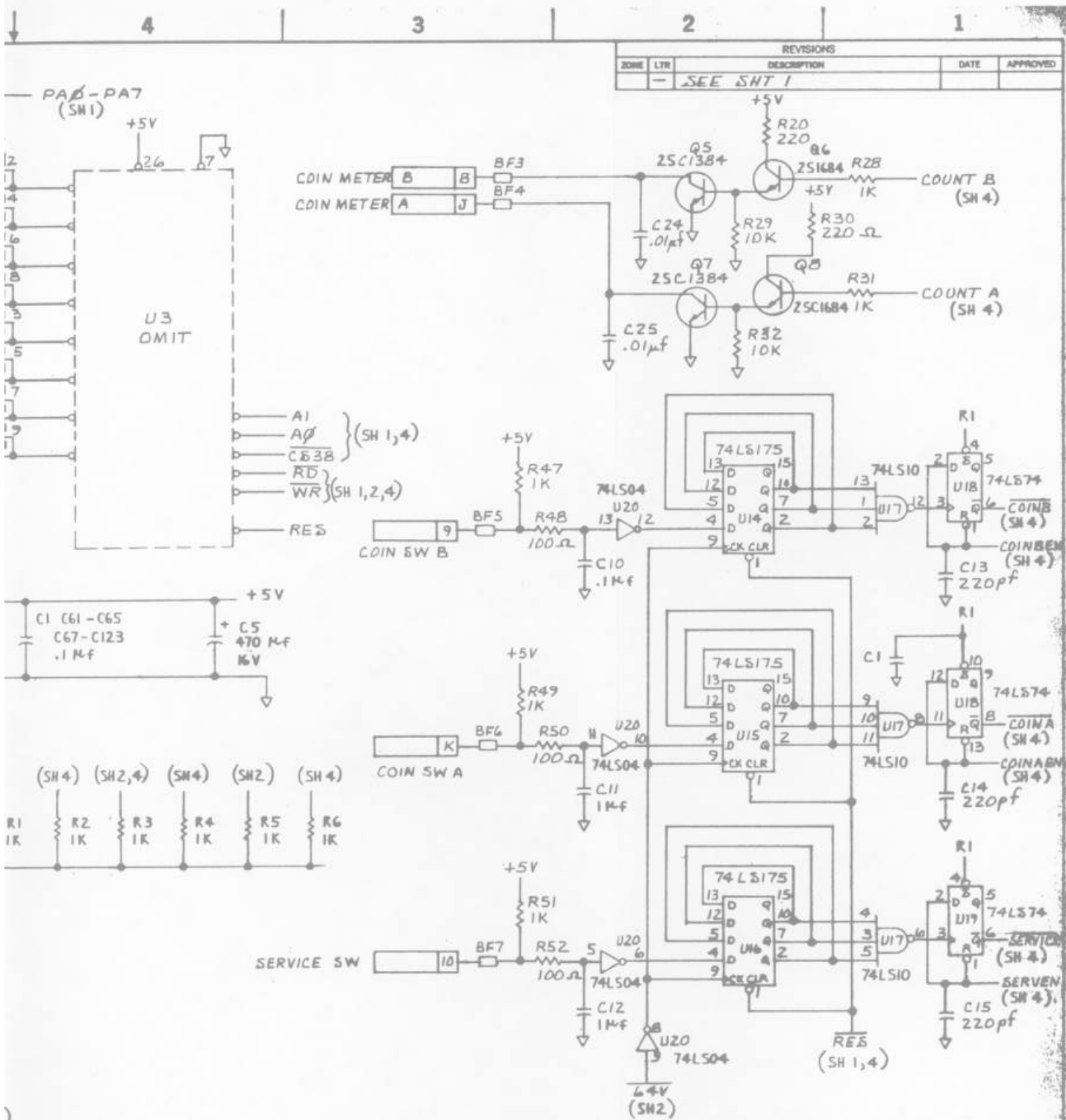
LD0	2
LD1	1
LD2	6
LD0.5	5
LD1.5	3

EO2 (SM4)

11	74LS30
12	

(SM4)

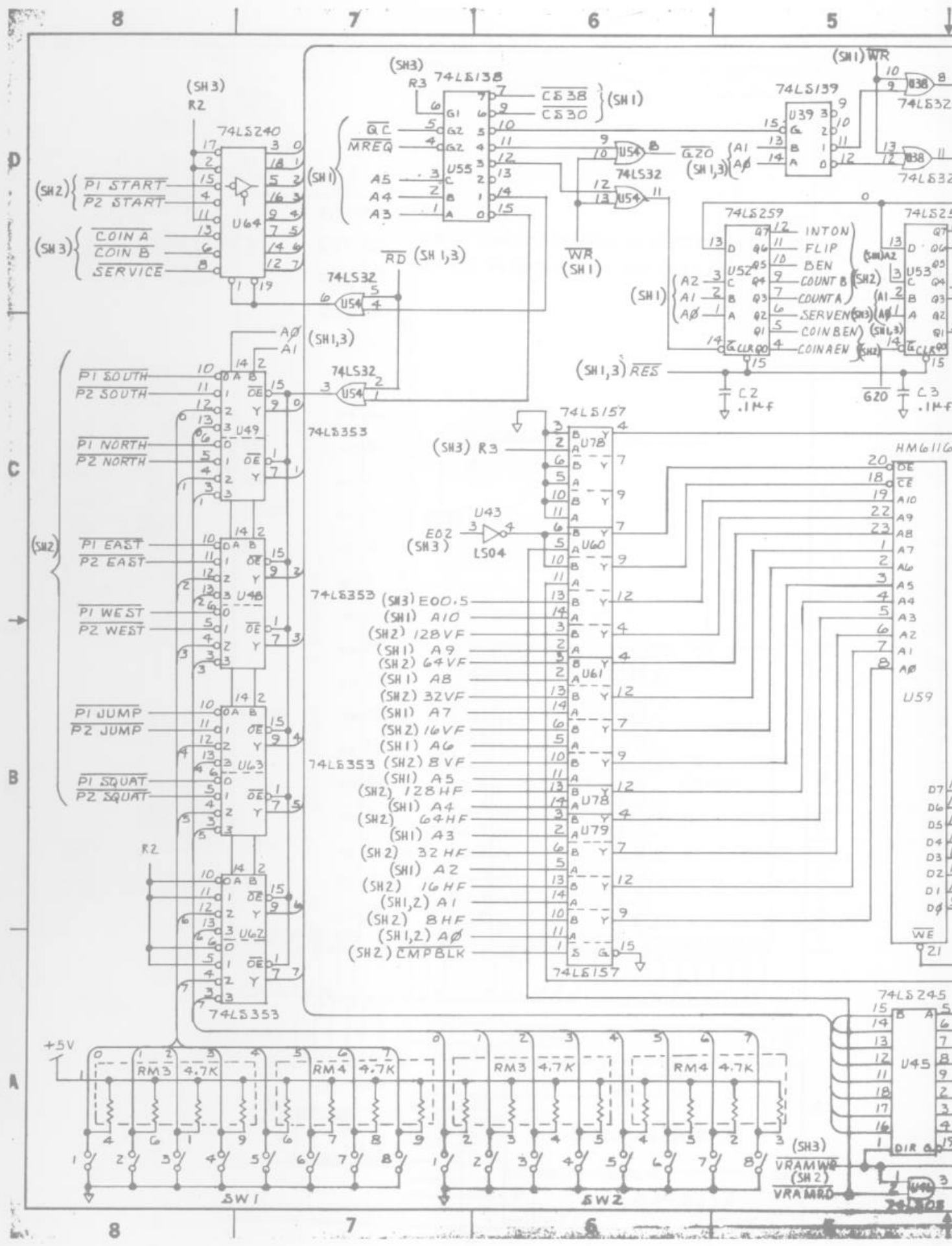
LD3	1
LD4	2
LD3.5	4
LD4.5	5

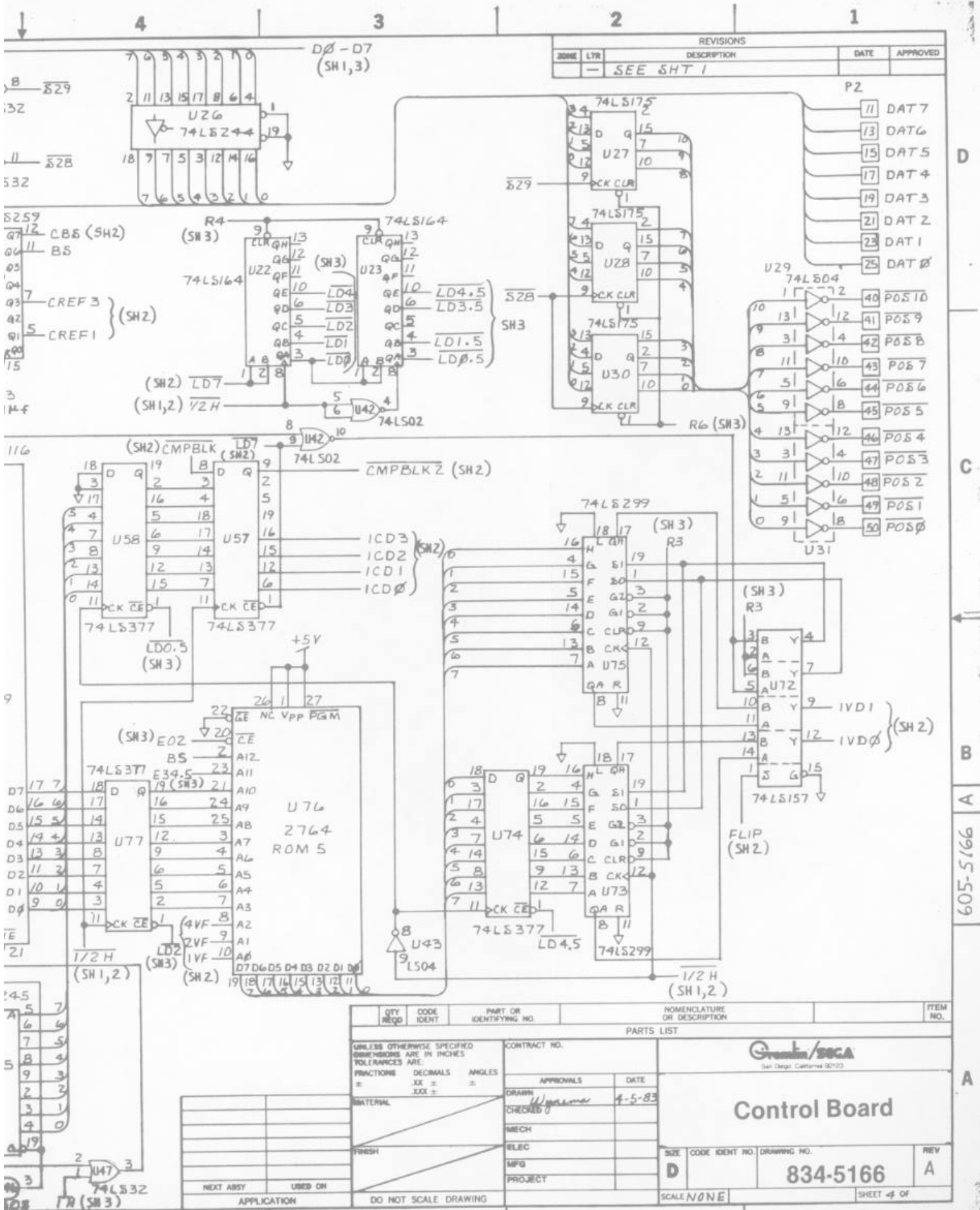


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
-	-	SEE SHT 1		

QTY	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			 San Diego, California 92122	Control Board
FUNCTIONS	DECIMALS	ANGLES		
±	±	±	APPROVALS: _____ DATE: 4-4-80	834-5166

B → EDD.5 (SH 4)
 4LS20
 2 → 1 → E54.3
 4LS20 74LS02 (SH 4)





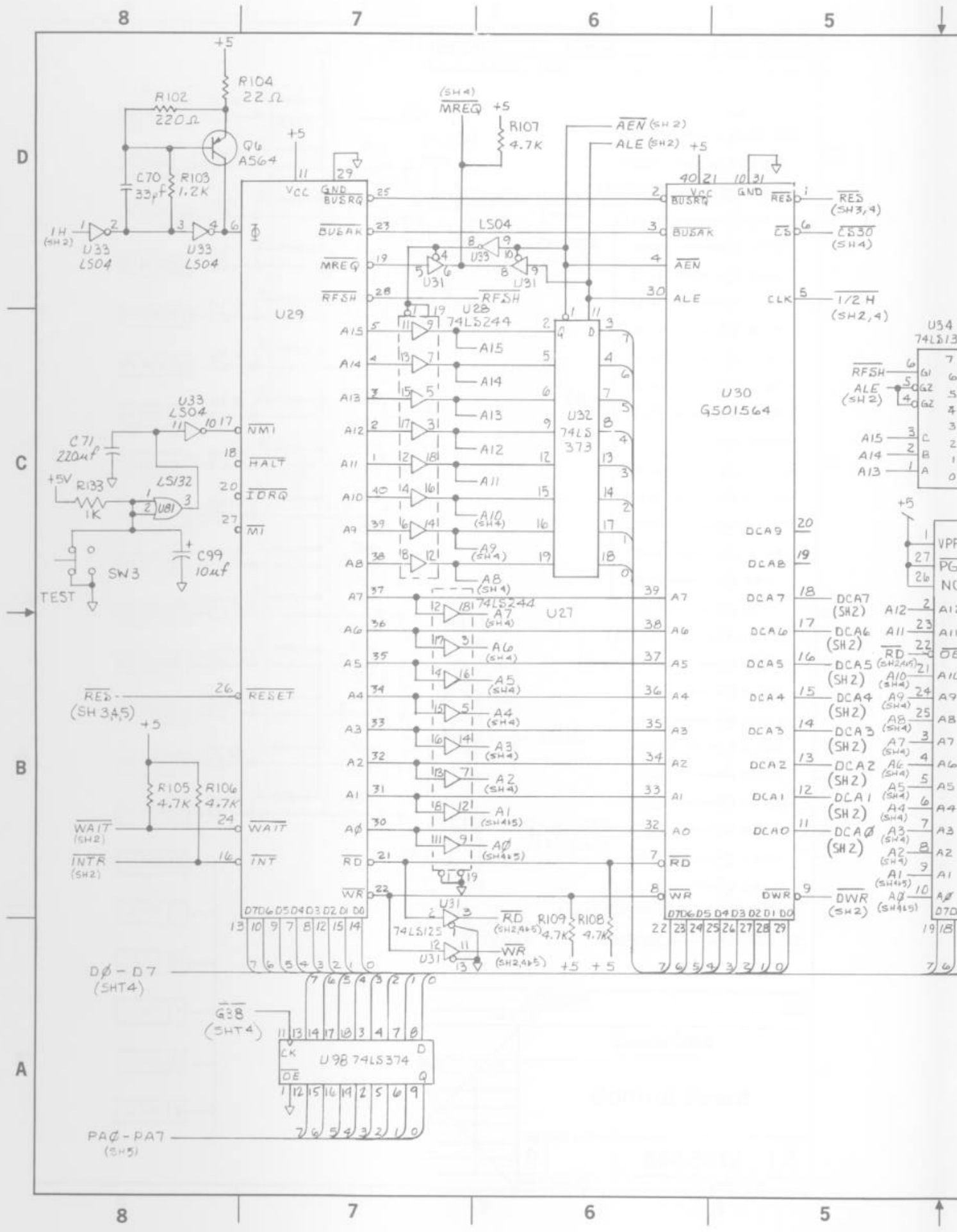
D

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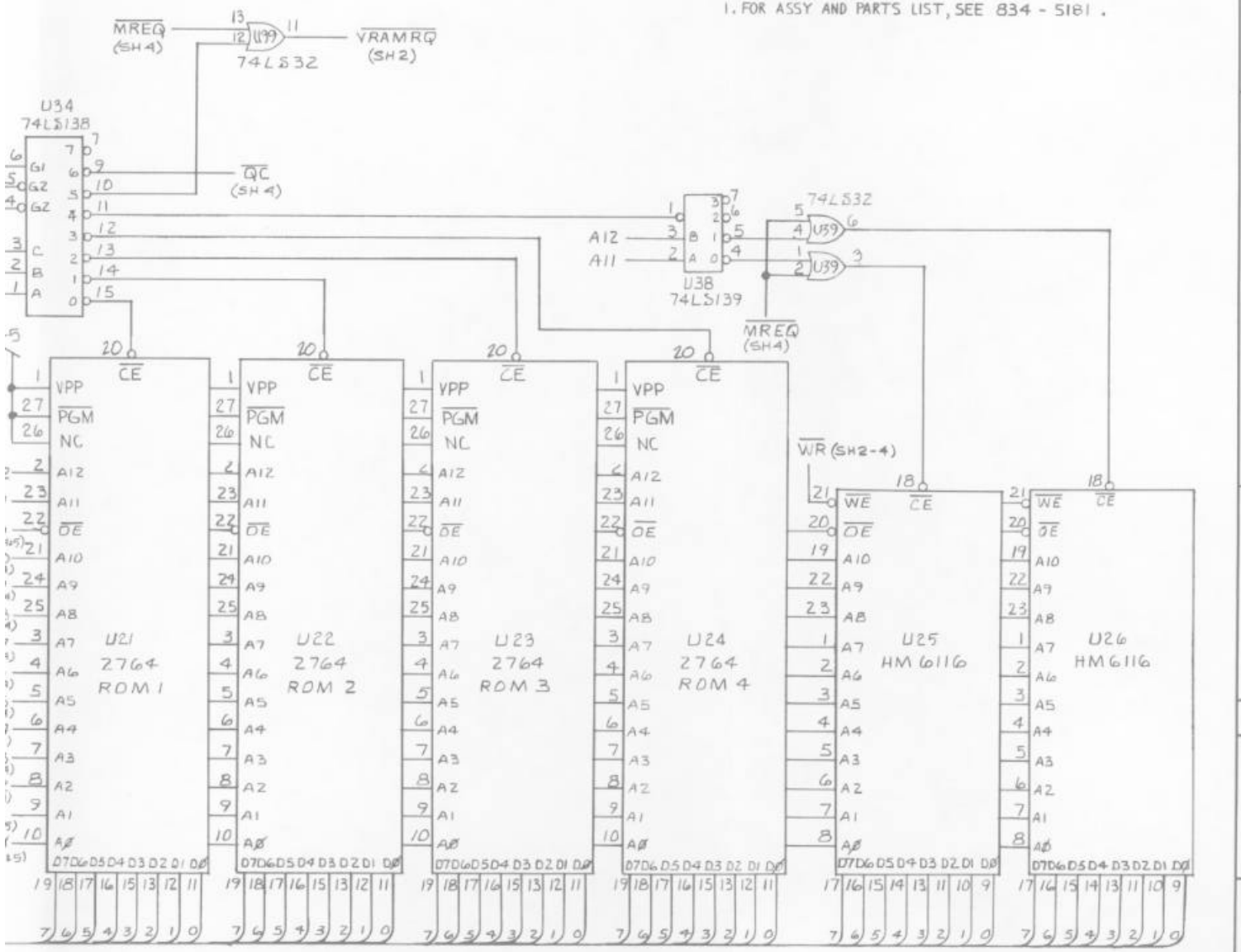
A

A



4						3						2						1						
A	A	A	A	A	A	REV	REV	STATUS	REVISIONS						ZONE		LTR		DESCRIPTION		DATE		APPROVED	
6	5	4	3	2	1	SH	OF	SHEETS	A		RELEASED													

NOTES: (UNLESS OTHERWISE SPECIFIED)
 1. FOR ASSY AND PARTS LIST, SEE 834 - S181.



D
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A
605-5181

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.			
PARTS LIST							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± °		CONTRACT NO.		 San Diego, California 92103 <h2 style="margin: 0;">Control Board</h2>			
MATERIAL		APPROVALS	DATE				
FINISH		CHECKED	5-27-83				
NEXT ASSY USED ON		MECH	5-11-83				
APPLICATION		ELEC		SIZE	CODE IDENT NO.	DRAWING NO.	REV
DO NOT SCALE DRAWING		MFG		D		834-5212	A
		PROJECT		SCALE	NONE		SHEET 1 OF 6

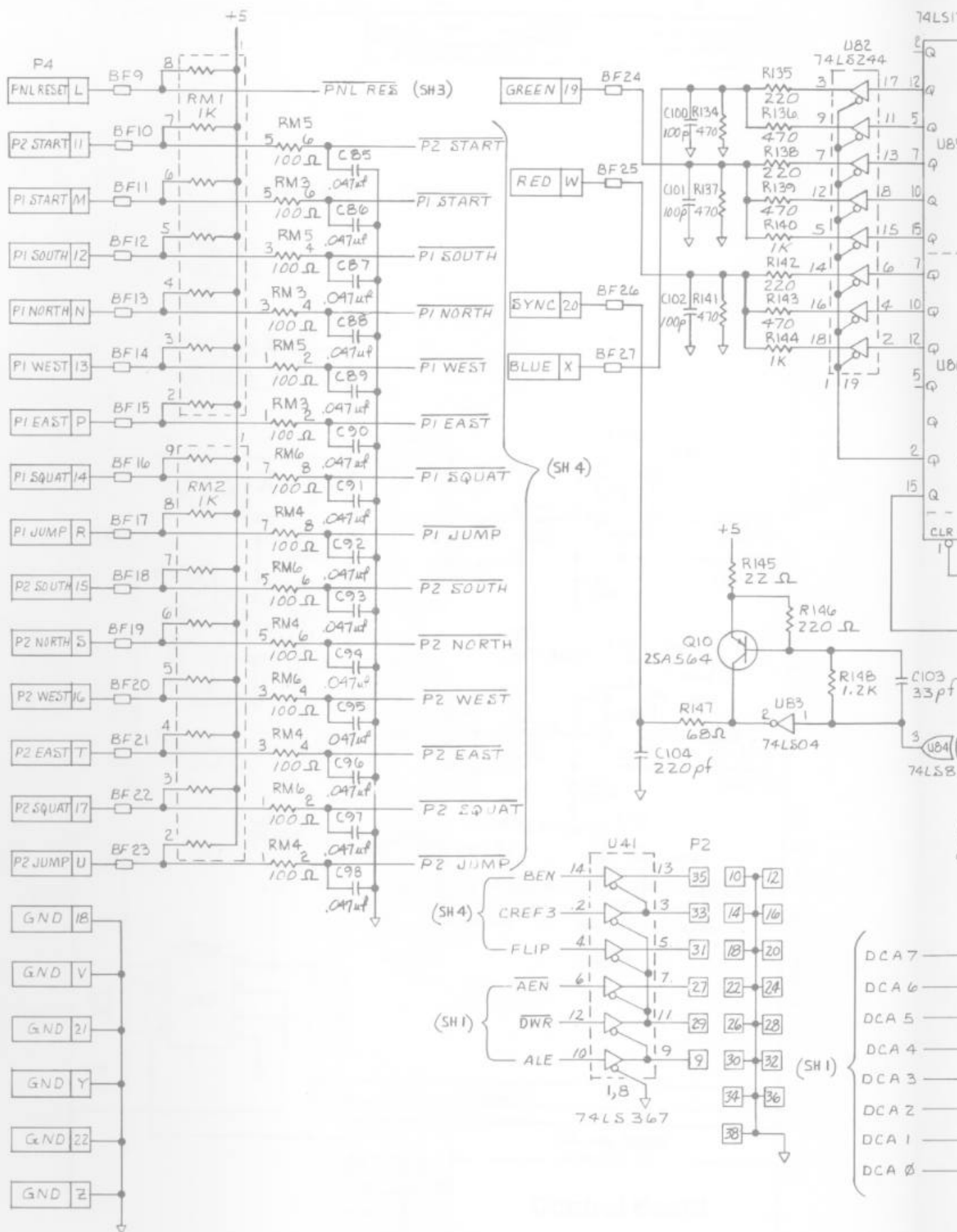
A
180

D

C

B

A



74LS17

U85

U86

CLR

U84

74LS81

DCA 7

DCA 6

DCA 5

DCA 4

DCA 3

DCA 2

DCA 1

DCA 0

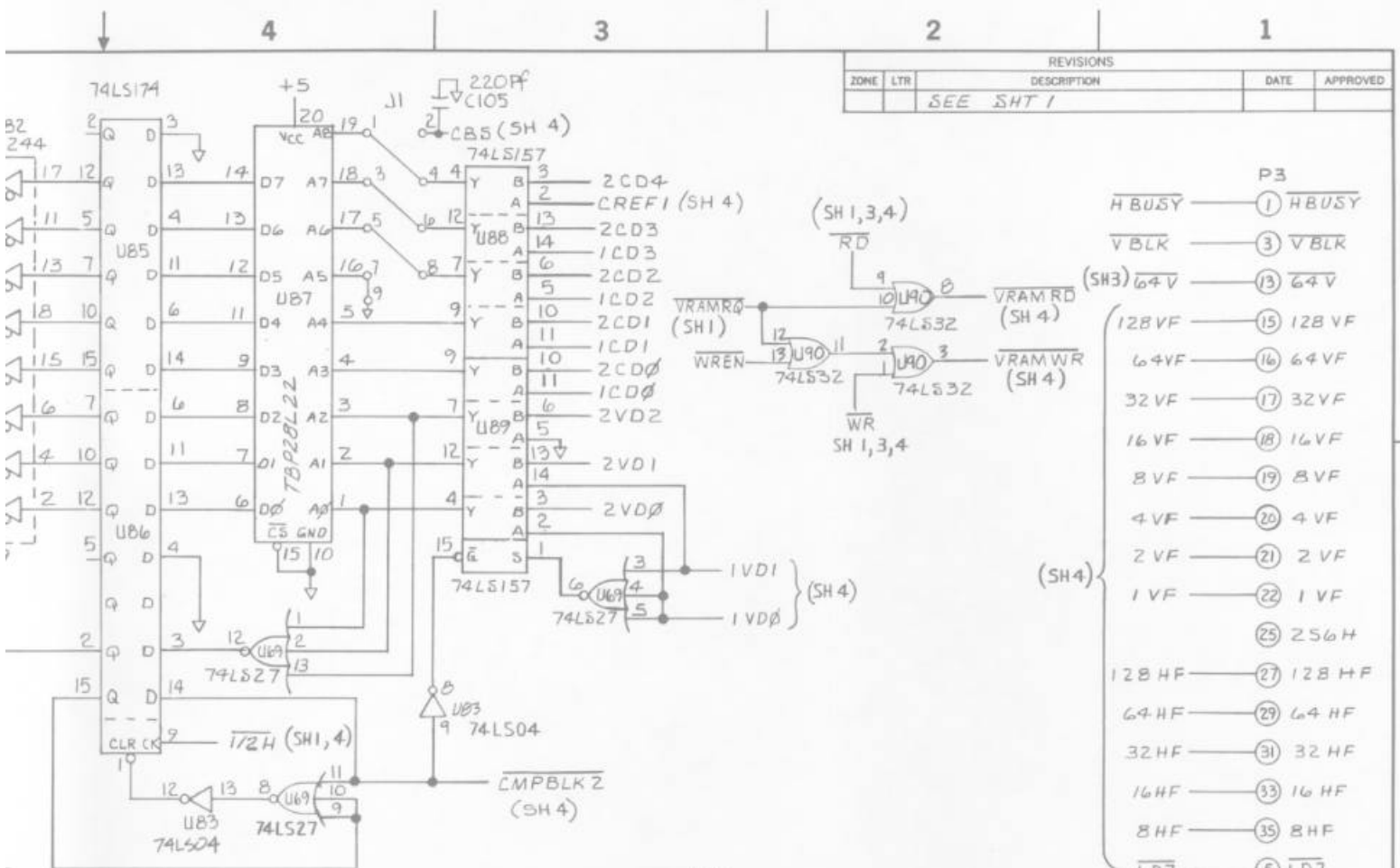
(SH 4)

(SH 1)

(SH 1)

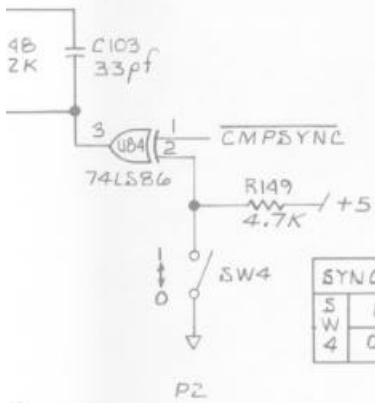
74LS 367

- DCA 7
- DCA 6
- DCA 5
- DCA 4
- DCA 3
- DCA 2
- DCA 1
- DCA 0

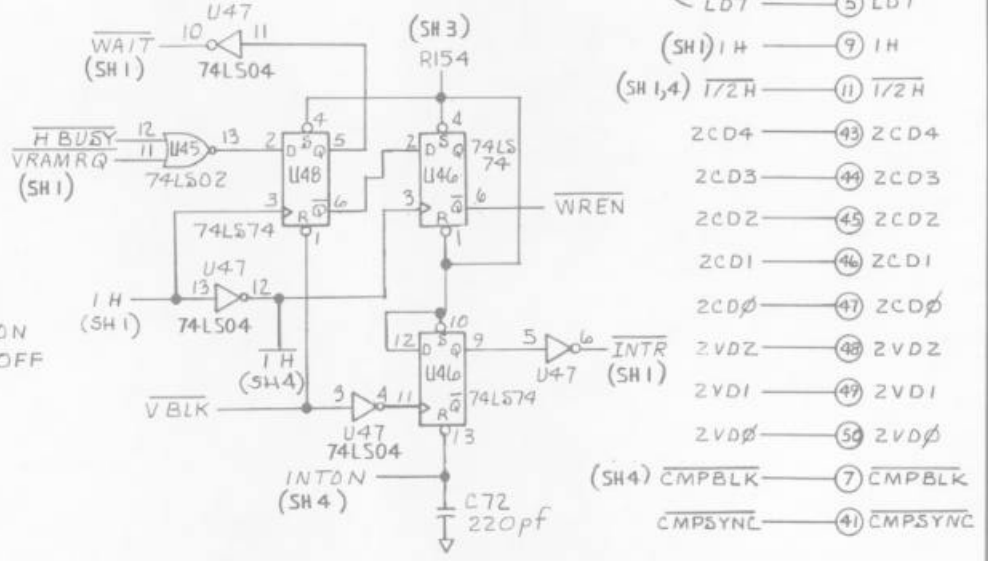


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHT 1		

- P3
- H BUSY — (1) H BUSY
- V BLK — (3) V BLK
- (SH3) 64V — (13) 64V
- (128VF — (15) 128 VF
- 64VF — (16) 64VF
- 32VF — (17) 32VF
- 16VF — (18) 16VF
- 8VF — (19) 8VF
- 4VF — (20) 4VF
- 2VF — (21) 2VF
- 1VF — (22) 1VF
- (25) 256H
- 128HF — (27) 128 HF
- 64HF — (29) 64 HF
- 32HF — (31) 32 HF
- 16HF — (33) 16 HF
- 8HF — (35) 8HF
- LD7 — (5) LD7
- (SH1) 1H — (9) 1H
- (SH 1,4) 1/2H — (11) 1/2H



SYNC POLARITY		
S	1	POSITIVE
W	4	NEGATIVE



- DCA 7 — (1)
- DCA 6 — (2)
- DCA 5 — (3)
- DCA 4 — (4)
- DCA 3 — (5)
- DCA 2 — (6)
- DCA 1 — (7)
- DCA 0 — (8)

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES	APPROVALS	DATE
±	±	±	DRAWN	
			CHECKED	
			MECH	
			ELEC	
			MFG	
			PROJECT	
MATERIAL				
FINISH				
NEXT ASSY		SIZE		CODE IDENT NO.
USED ON		DRAWING NO.		REV
APPLICATION		834-5212		A
DO NOT SCALE DRAWING		SCALE NONE		SHEET 2 OF

D
C
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A
605-5181

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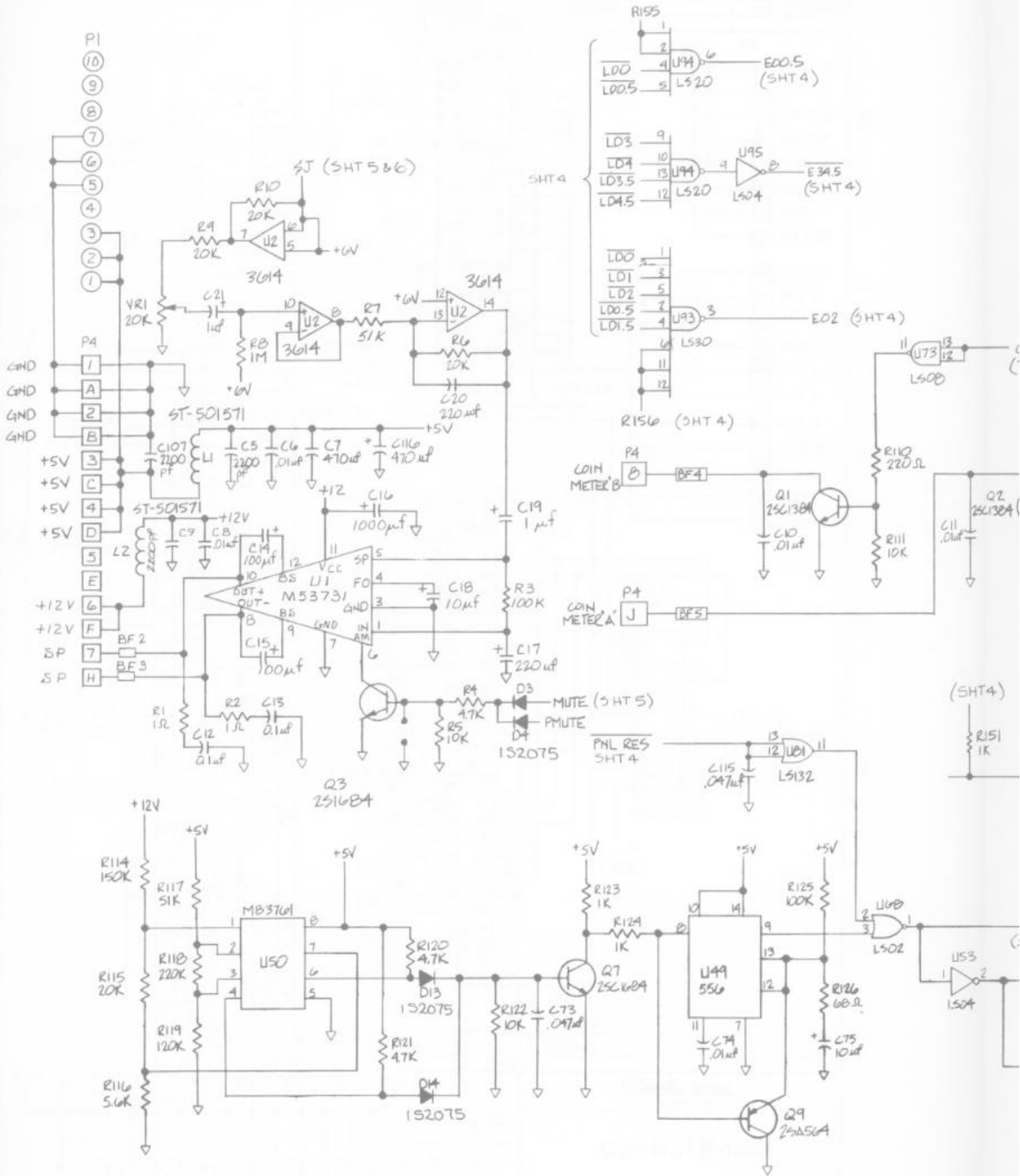
5

D

C

B

A



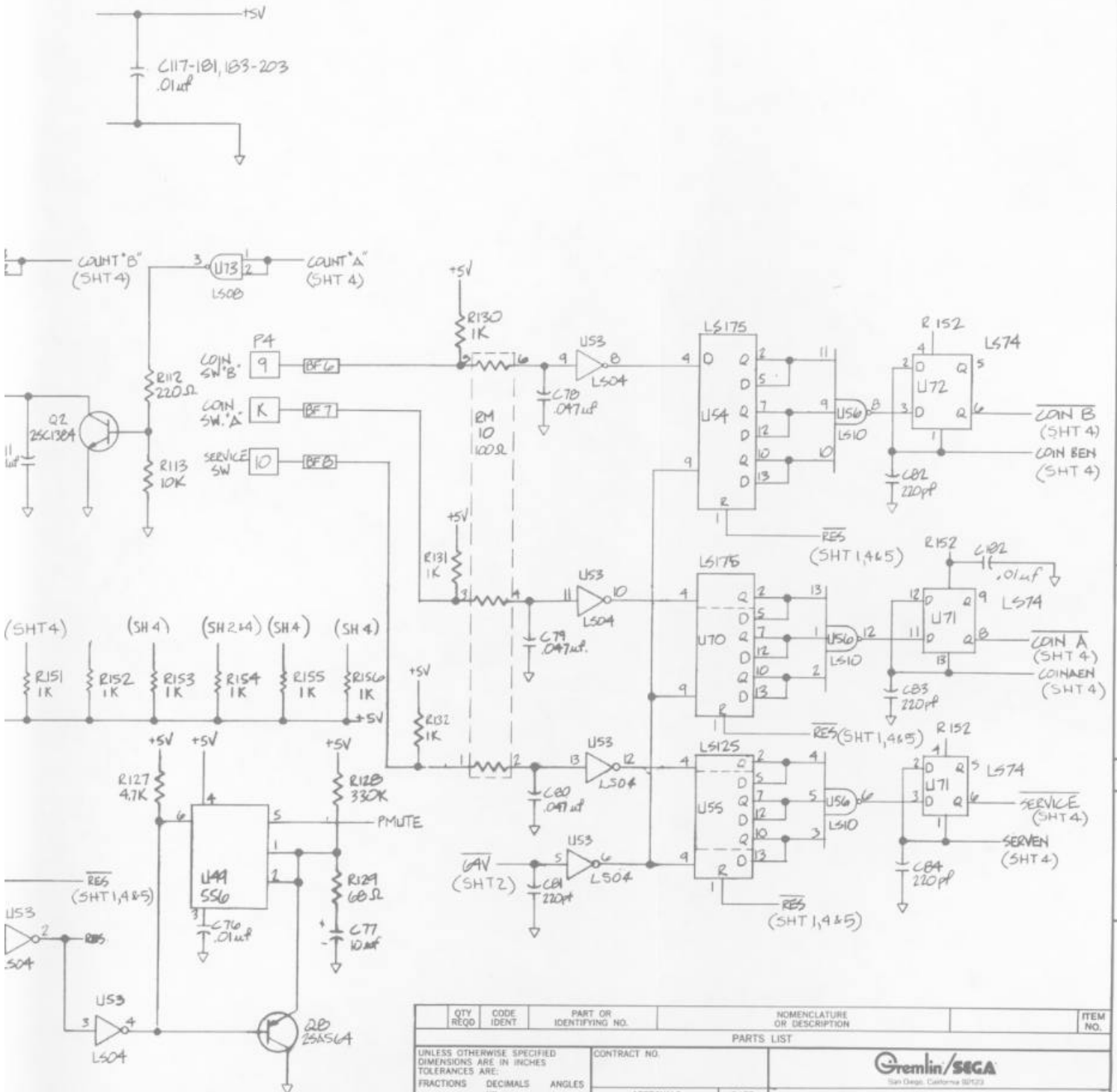
8

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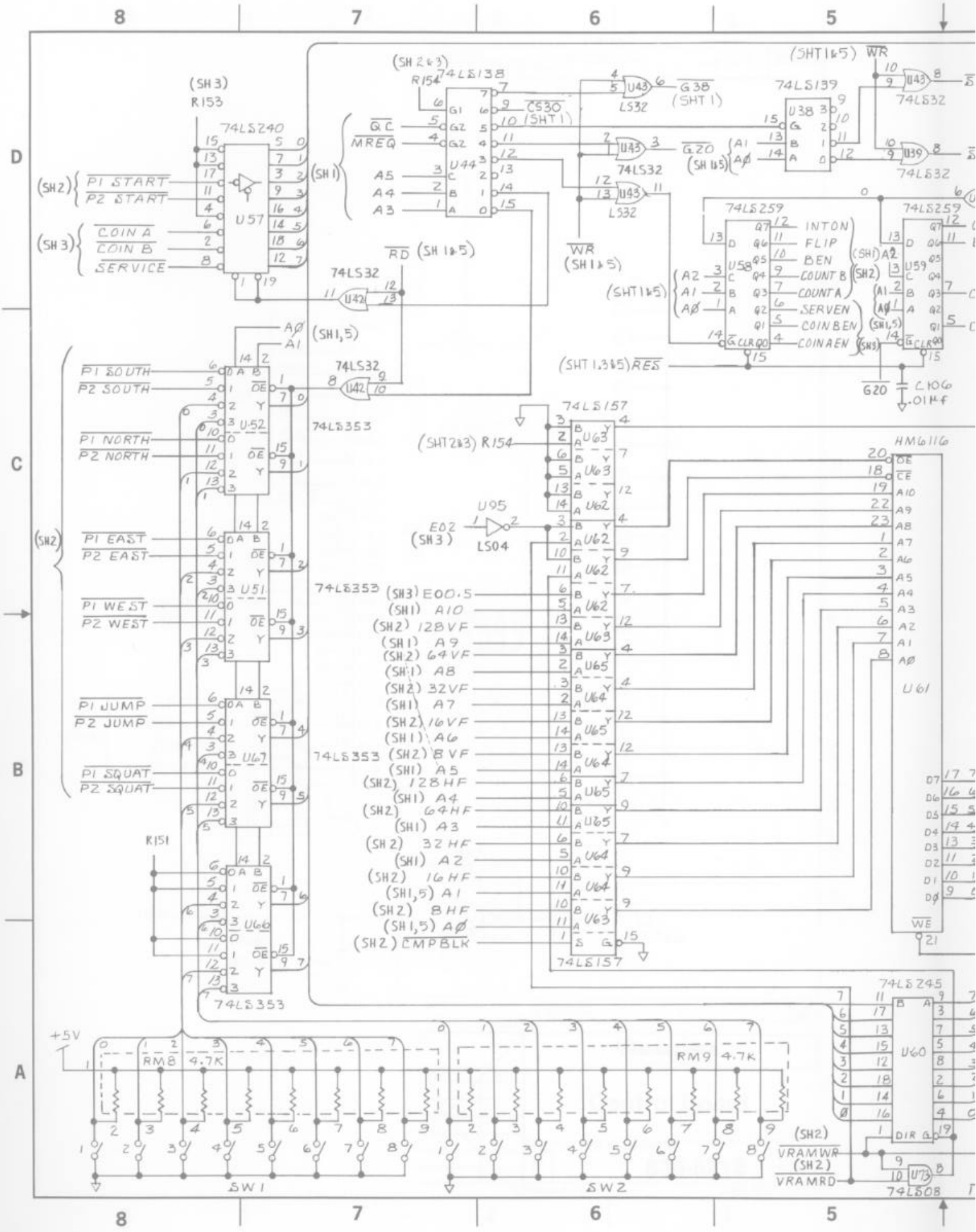
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
-	-	SEE SHT 1		



QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:				
FRACTIONS	DECIMALS	ANGLES		
±	.XX ±	° ±		
MATERIAL				
FINISH				
NEXT ASSY		USED ON		
DO NOT SCALE DRAWING				
APPROVALS		DATE		
DRAWN		5-9-83		
CHECKED				
MECH				
ELEC				
MFG				
PROJECT				
CONTRACT NO.		Gremlin/SEGA San Diego, California 92122		
Control Board				
SIZE	CODE IDENT NO.	DRAWING NO.	REV	
D		834-5212	A	
SCALE NONE			SHEET 3 OF	

D
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A
834-5101

A



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D

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B

A

(SH3)
R153

(SH2&3)
R154

(SHT1&5) WR

(SH2) {
PI START
P2 START
COIN A
COIN B
SERVICE

(SH1)
A5
A4
A3

RD (SH1&5)

WR (SH1&5)

74LS259

(A2)
A1
A0

(SH1,5)
A2
A1
A0

(SHT1,3&5) RES

PI SOUTH
P2 SOUTH

PI NORTH
P2 NORTH

PI EAST
P2 EAST

PI WEST
P2 WEST

PI JUMP
P2 JUMP

PI SQUAT
P2 SQUAT

(SHT2&3) R154

E02 (SH3)
LS04

74LS353 (SH3) E00.5

(SH1) A10

(SH2) 12BVF

(SH1) A9

(SH2) 64VF

(SH1) AB

(SH2) 32VF

(SH1) A7

(SH2) 16VF

(SH1) A6

74LS353 (SH2) 8VF

(SH1) A5

(SH2) 128HF

(SH1) A4

(SH2) 64HF

(SH1) A3

(SH2) 32HF

(SH1) A2

(SH2) 16HF

(SH1,5) A1

(SH2) 8HF

(SH1,5) A0

(SH2) EMPBLK

HM6116

20 DE
18 CE
19 A10
22 A9
23 A8
1 A7
2 A6
3 A5
4 A4
5 A3
6 A2
7 A1
8 A0

74LS245

U60
7 B A3
5 13 7 5
4 15 5 4
3 12 8 3
2 18 2 2
1 14 6 1
0 16 4 0
1 DIR A19
9 B
10 U73
74LS08

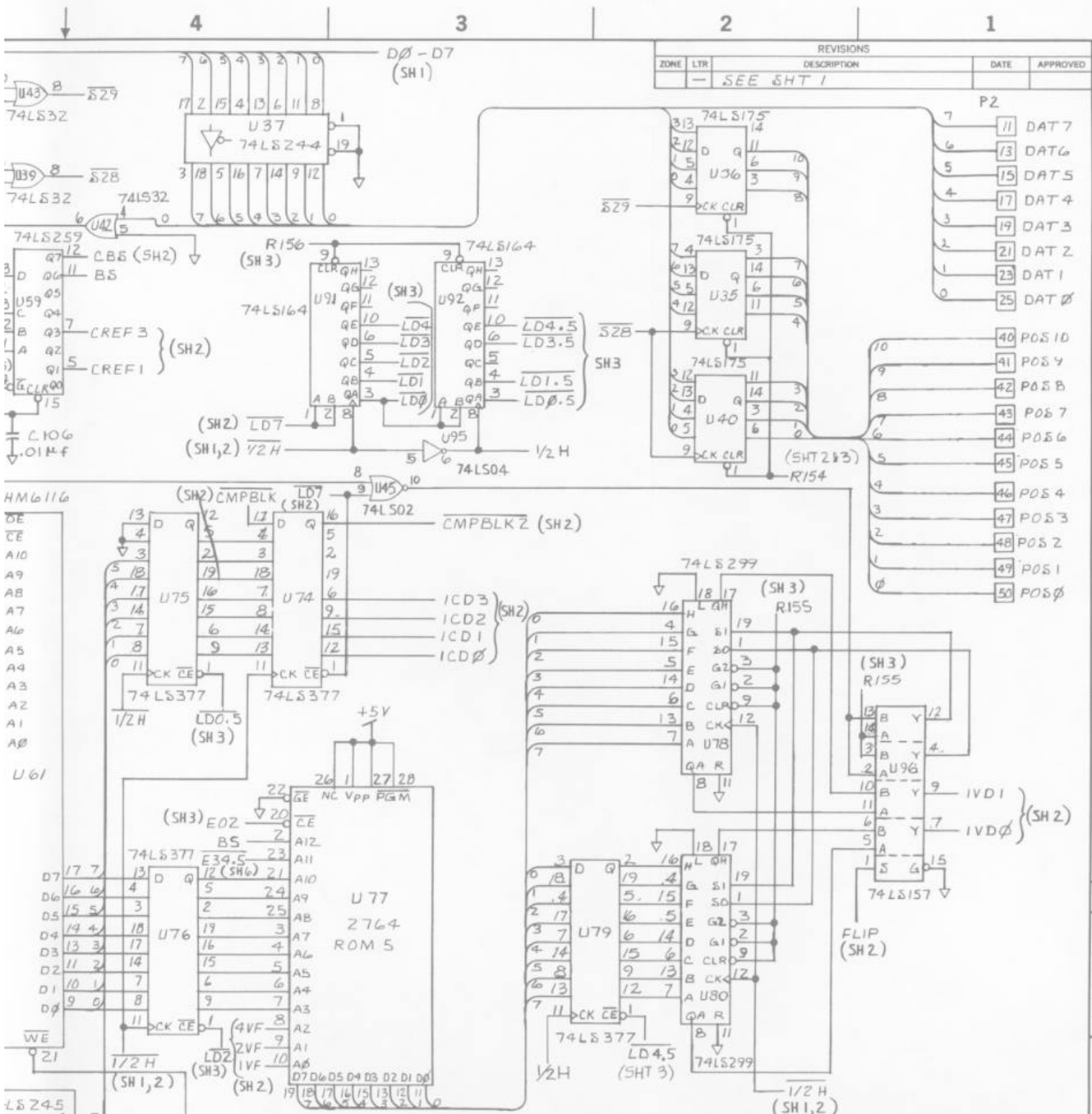
+5V

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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHT 1		

- P2
- 11 DAT 7
 - 13 DAT 6
 - 15 DAT 5
 - 17 DAT 4
 - 19 DAT 3
 - 21 DAT 2
 - 23 DAT 1
 - 25 DAT 0
- POS
- 10 POS 10
 - 9 POS 9
 - 8 POS 8
 - 7 POS 7
 - 6 POS 6
 - 5 POS 5
 - 4 POS 4
 - 3 POS 3
 - 2 POS 2
 - 1 POS 1
 - 0 POS 0

QTY	RECD	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES	APPROVALS		DATE
±	±	±			
MATERIAL			DRAWN		
FINISH			CHECKED		
NEXT ASSY			MECH		
USED ON			ELEC		
APPLICATION			MFG		
DO NOT SCALE DRAWING			PROJECT		

Gremlin/SEGA
San Diego, California 92103

Control Board

SIZE	CODE	IDENT NO.	DRAWING NO.	REV
D			834-5212	A

SCALE NONE SHEET 4 OF

D
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605-5/81

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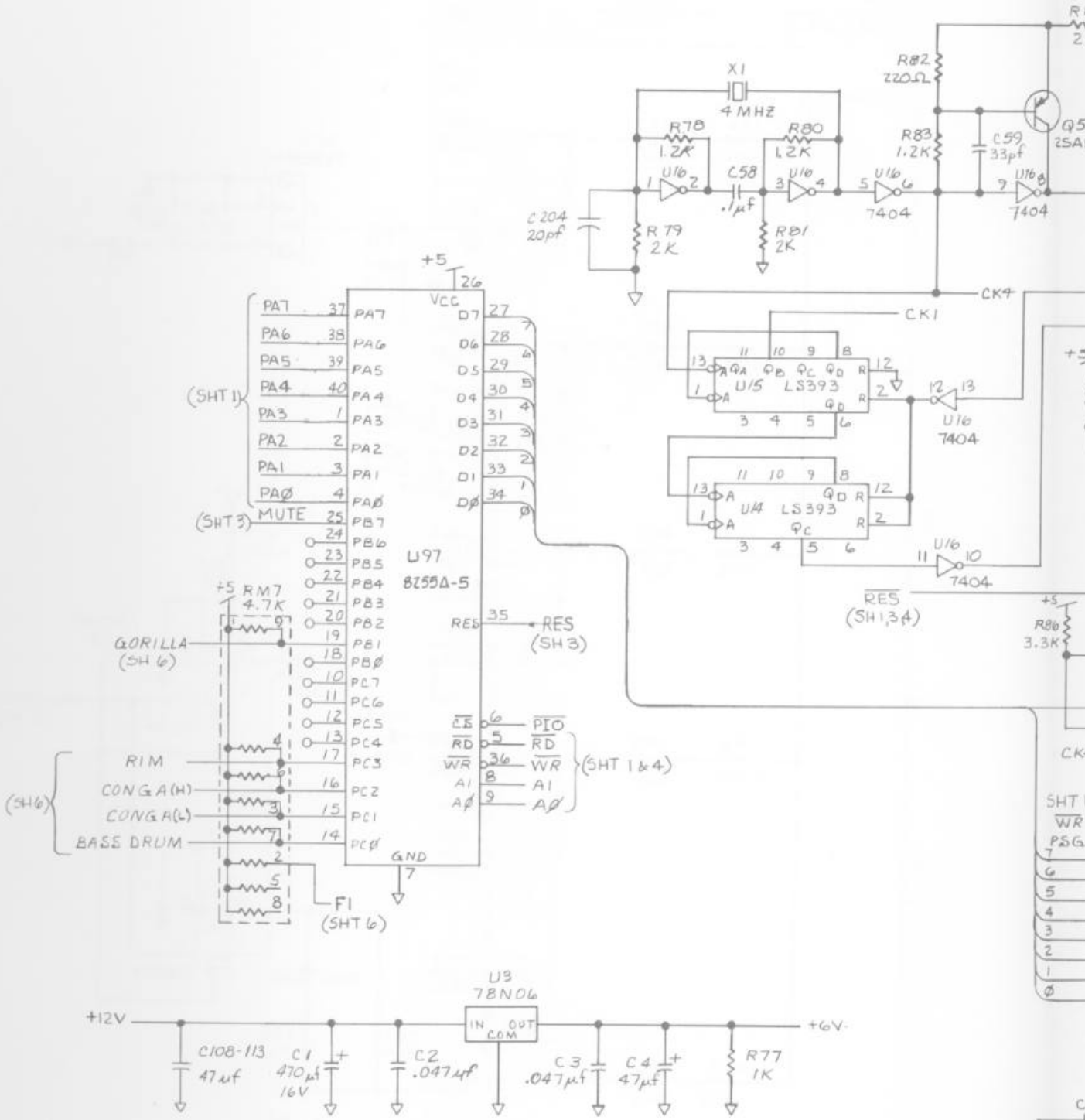
5

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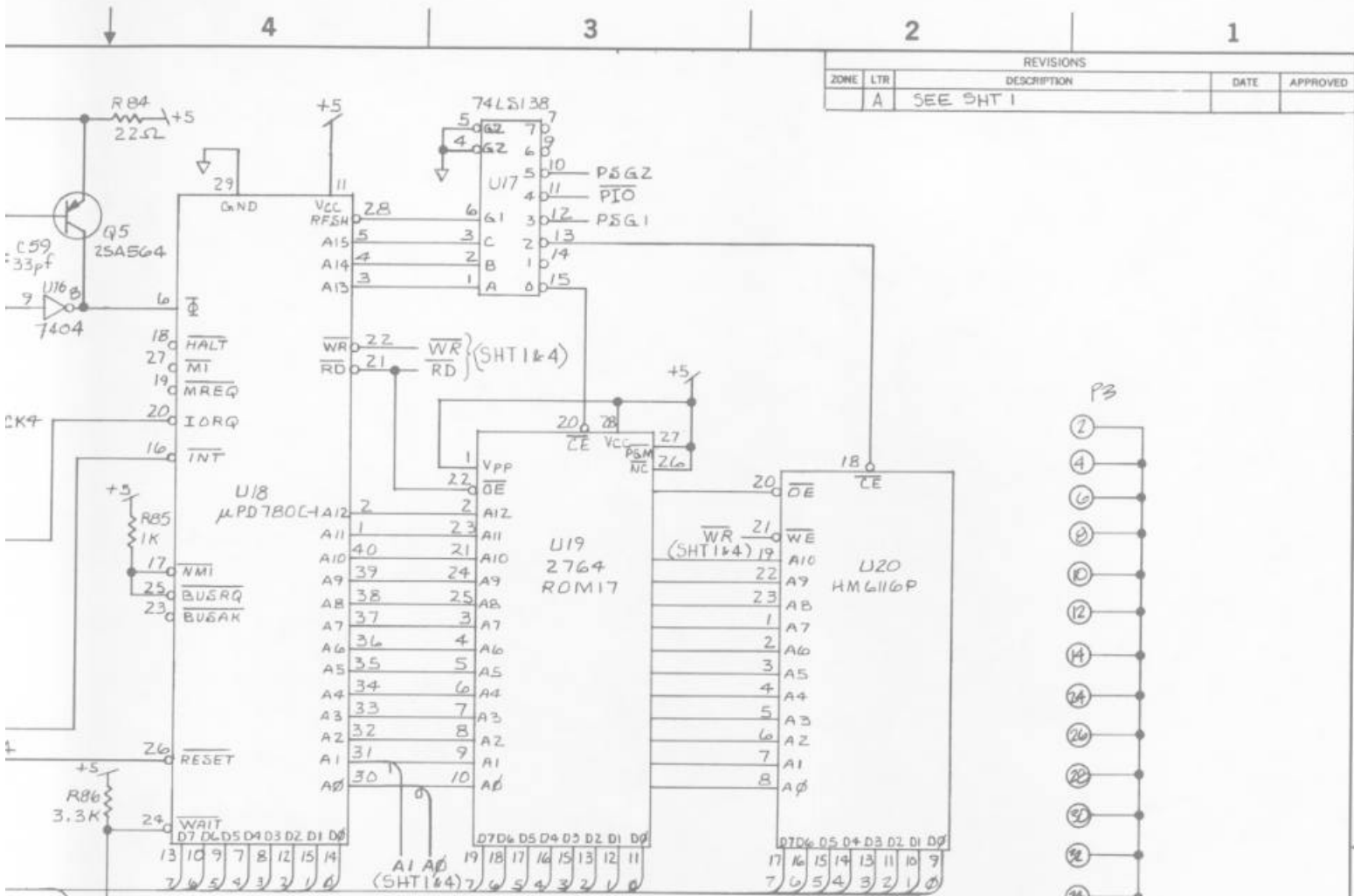
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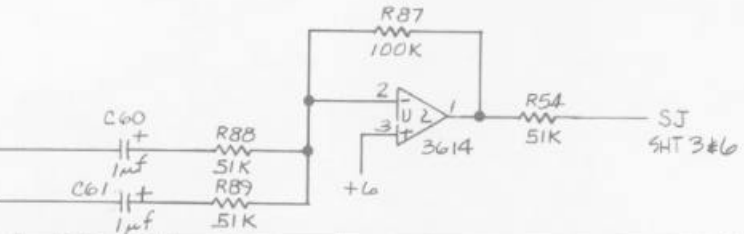
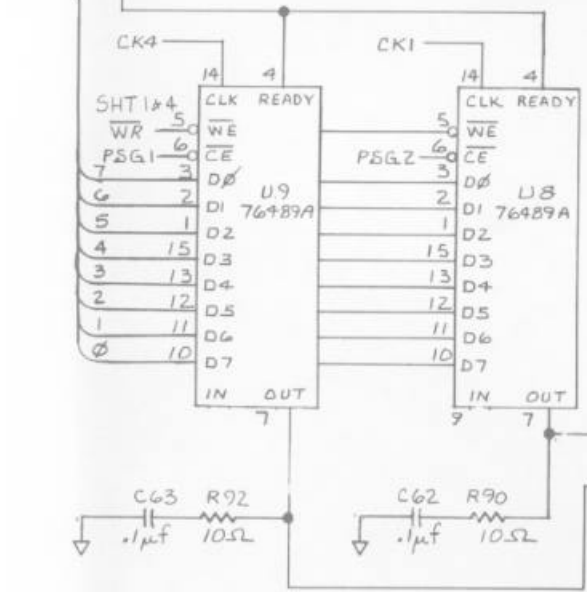
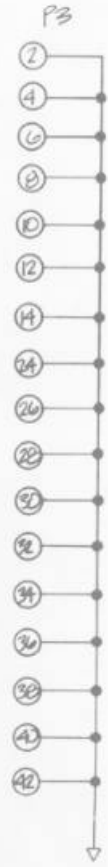
5

C

-1A



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		SEE SHT 1		



QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS ±	DECIMALS .XX ±	ANGLES XXX ±	APPROVALS	DATE
MATERIAL	DRAWN		CHECKED	
FINISH	MECH		ELEC	
NEXT ASSY	USED ON		MFG	
APPLICATION	DO NOT SCALE DRAWING		PROJECT	
Gremlin/SEGA San Diego, California 92122		Control Board		
SIZE D	CODE IDENT NO.	DRAWING NO. 834-5212	REV Δ	
SCALE NONE			SHEET 5 OF	

D
C
B
A
605-5181

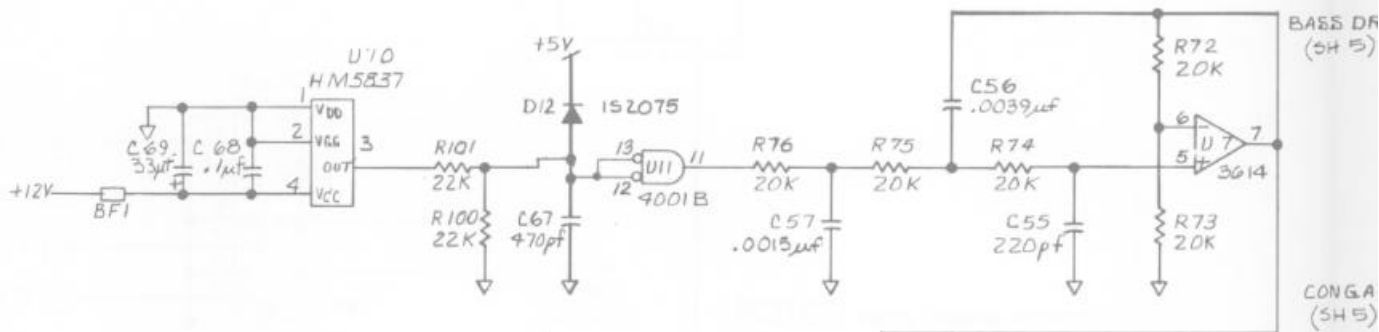
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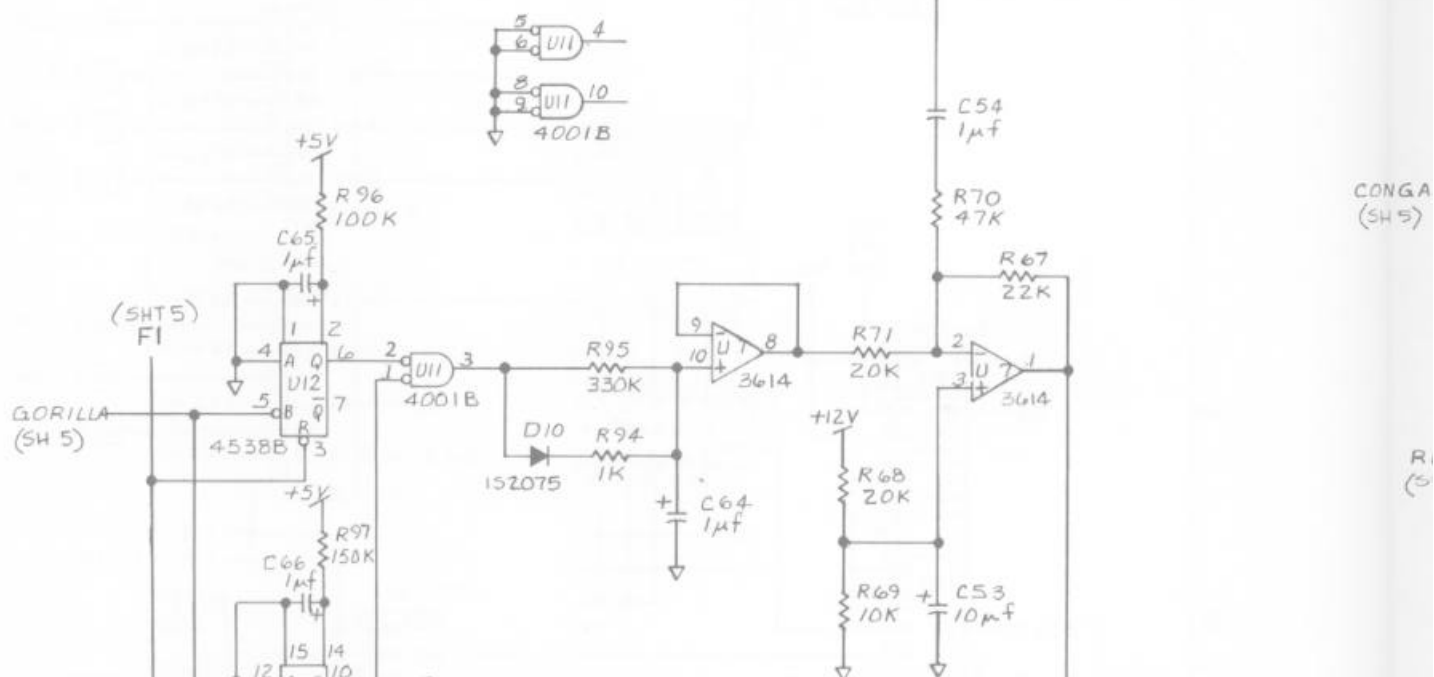
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5

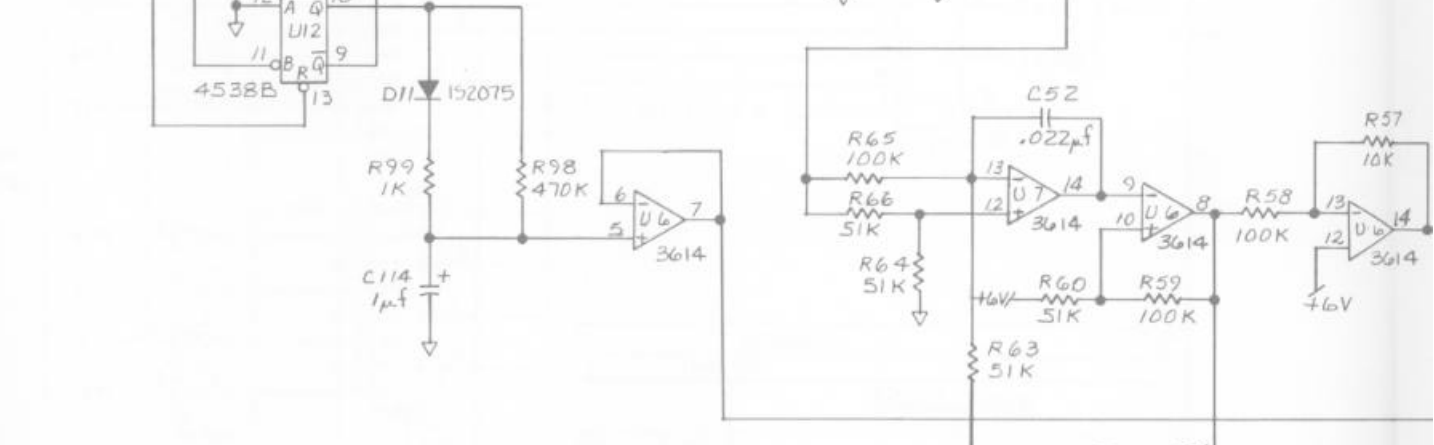
D



C



B



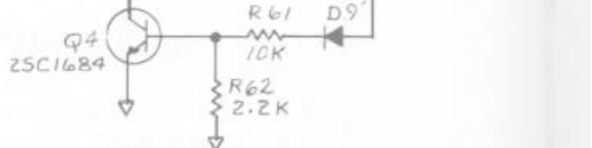
A

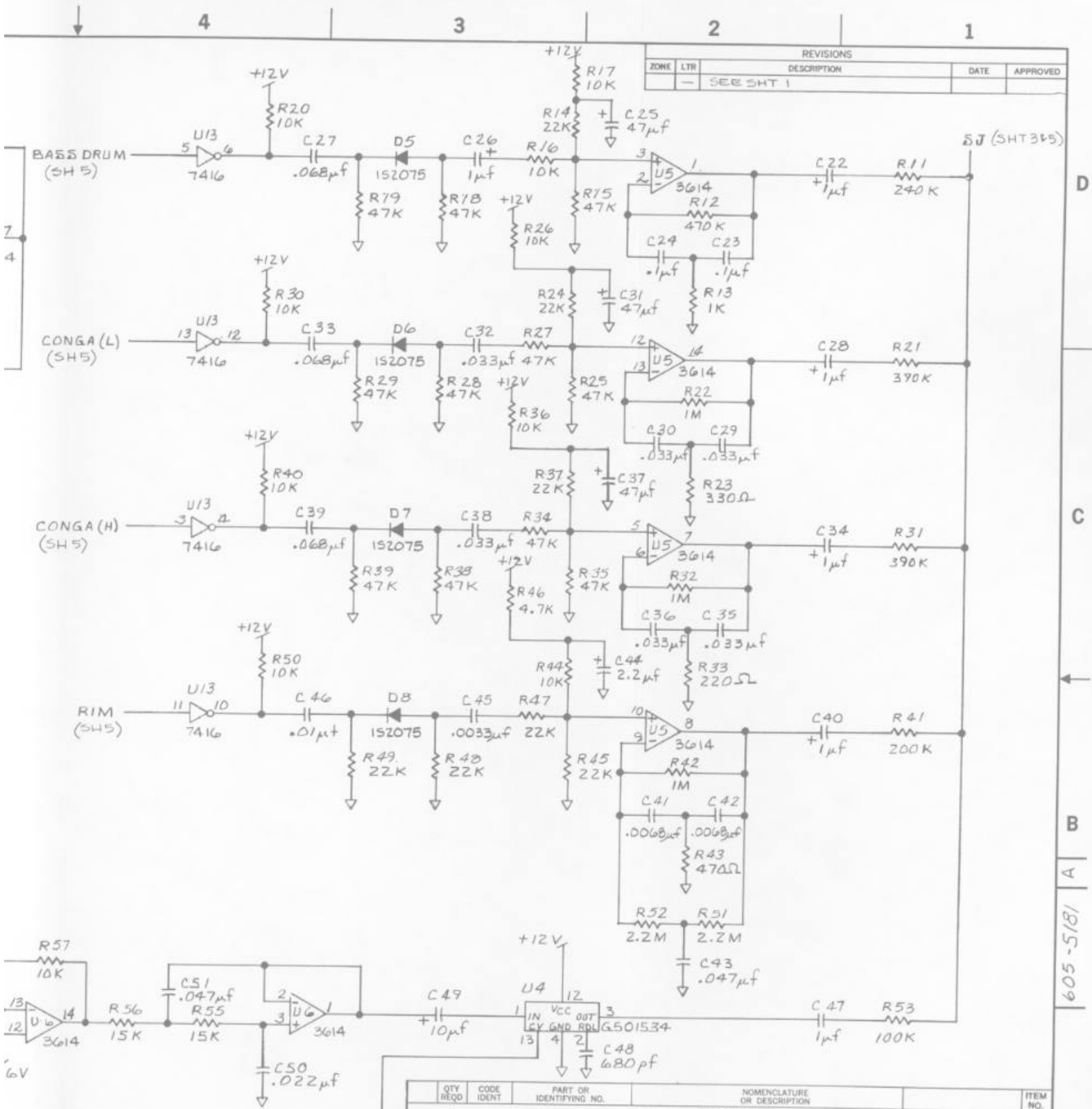
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
-	-	SEE SHT 1		

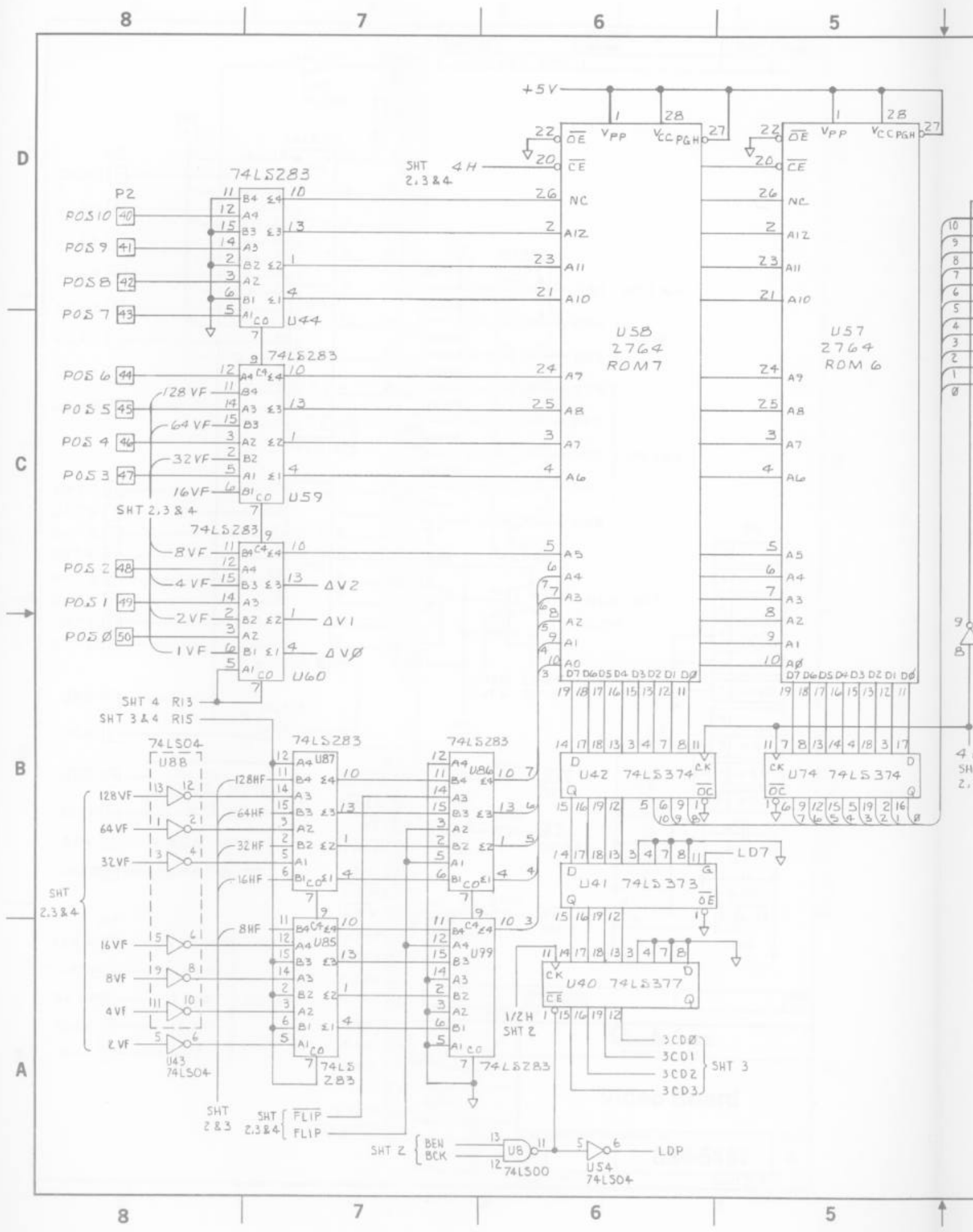
QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES	APPROVALS	
±	.XX ±	±	DATE	
	.XXX ±			
MATERIAL			DRAWN	
FINISH			CHECKED	
			MECH	
			ELEC	
			MFG	
			PROJECT	
NEPT ASSY	USED IN			
APPLICATION		DO NOT SCALE DRAWING		

Gremlin/SEGA
San Diego, California 92122

Control Board

SIZE	CODE IDENT NO.	DRAWING NO.	REV
D		834-5212	Δ
SCALE NONE		SHEET 6 OF	

605-5181



8

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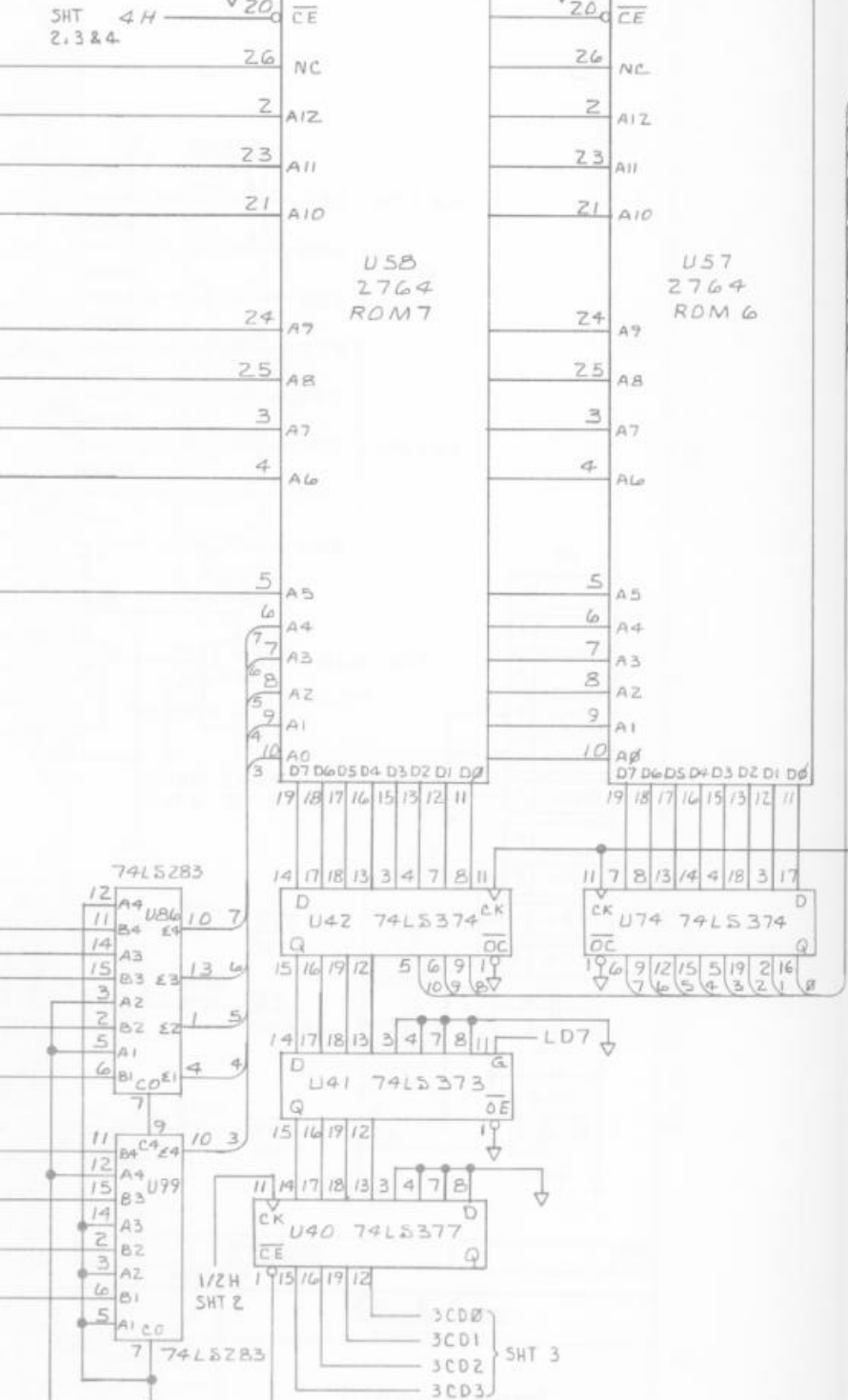
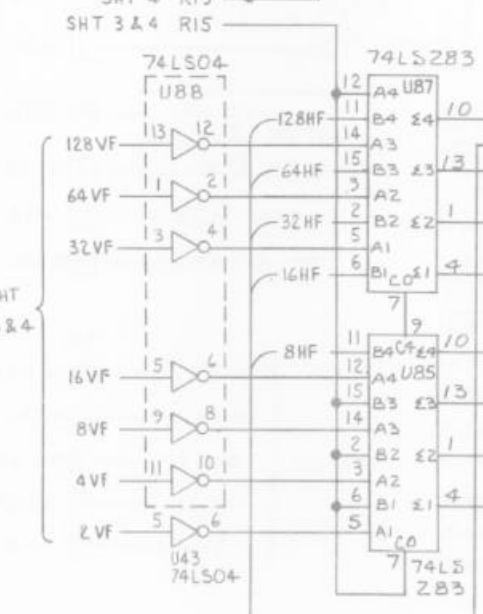
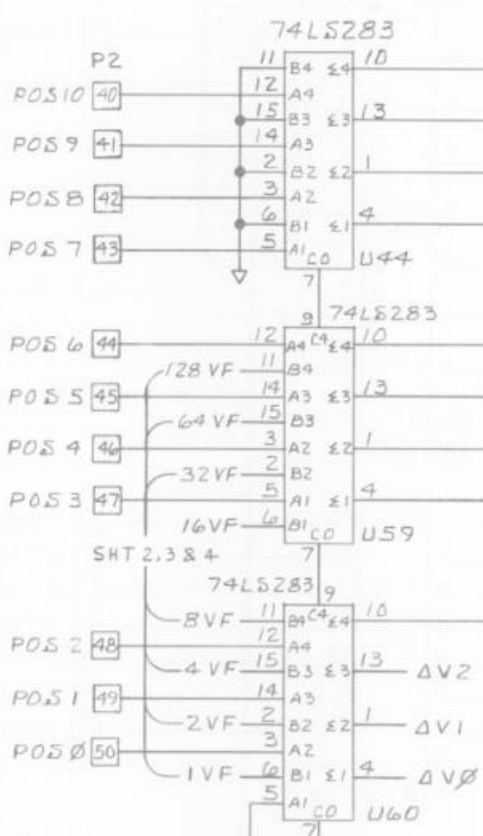
5

D

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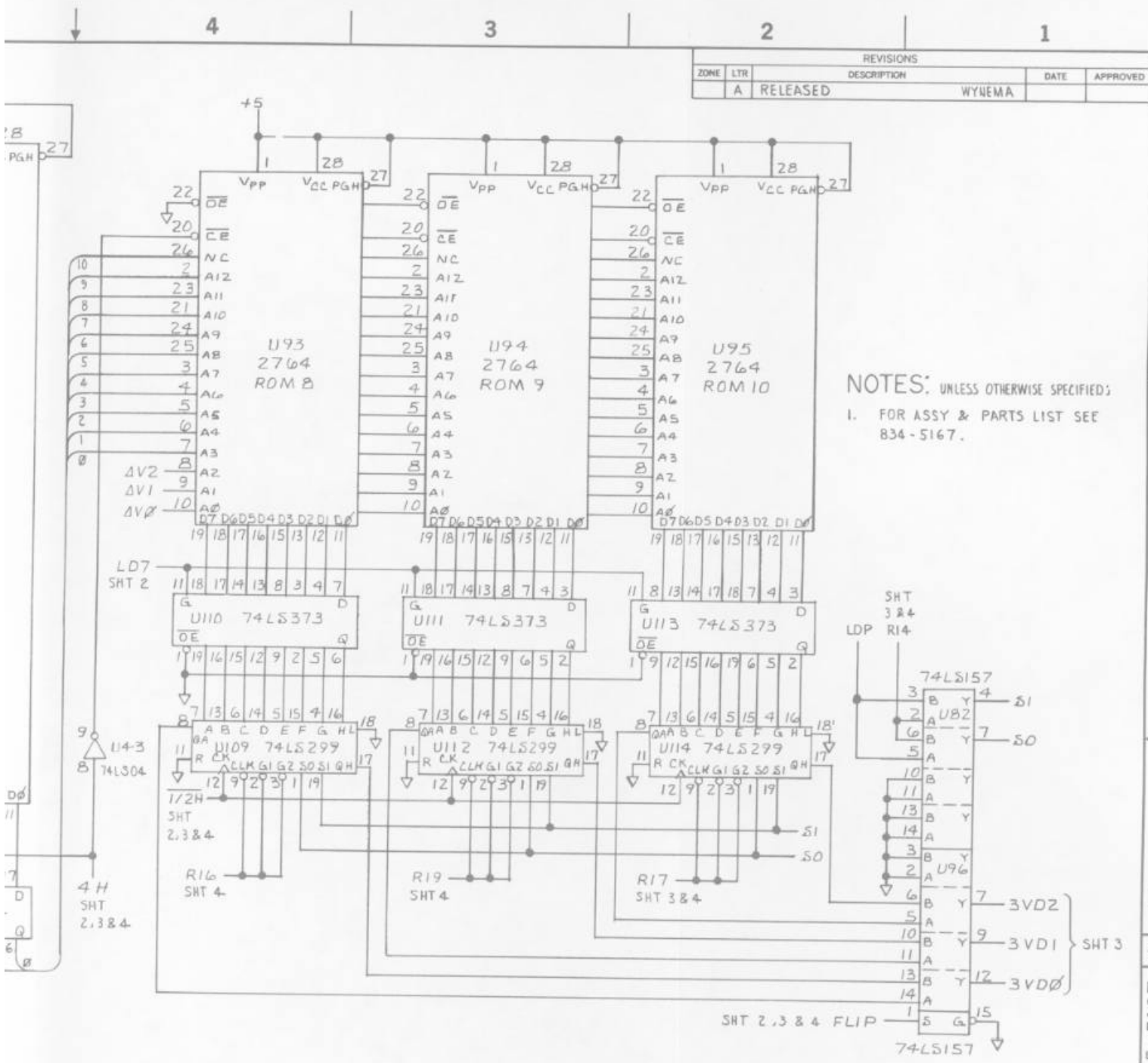
8

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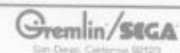
REVISIONS					
ZONE	LTR	DESCRIPTION	DATE	APPROVED	
A	RELEASED			WYNEMA	



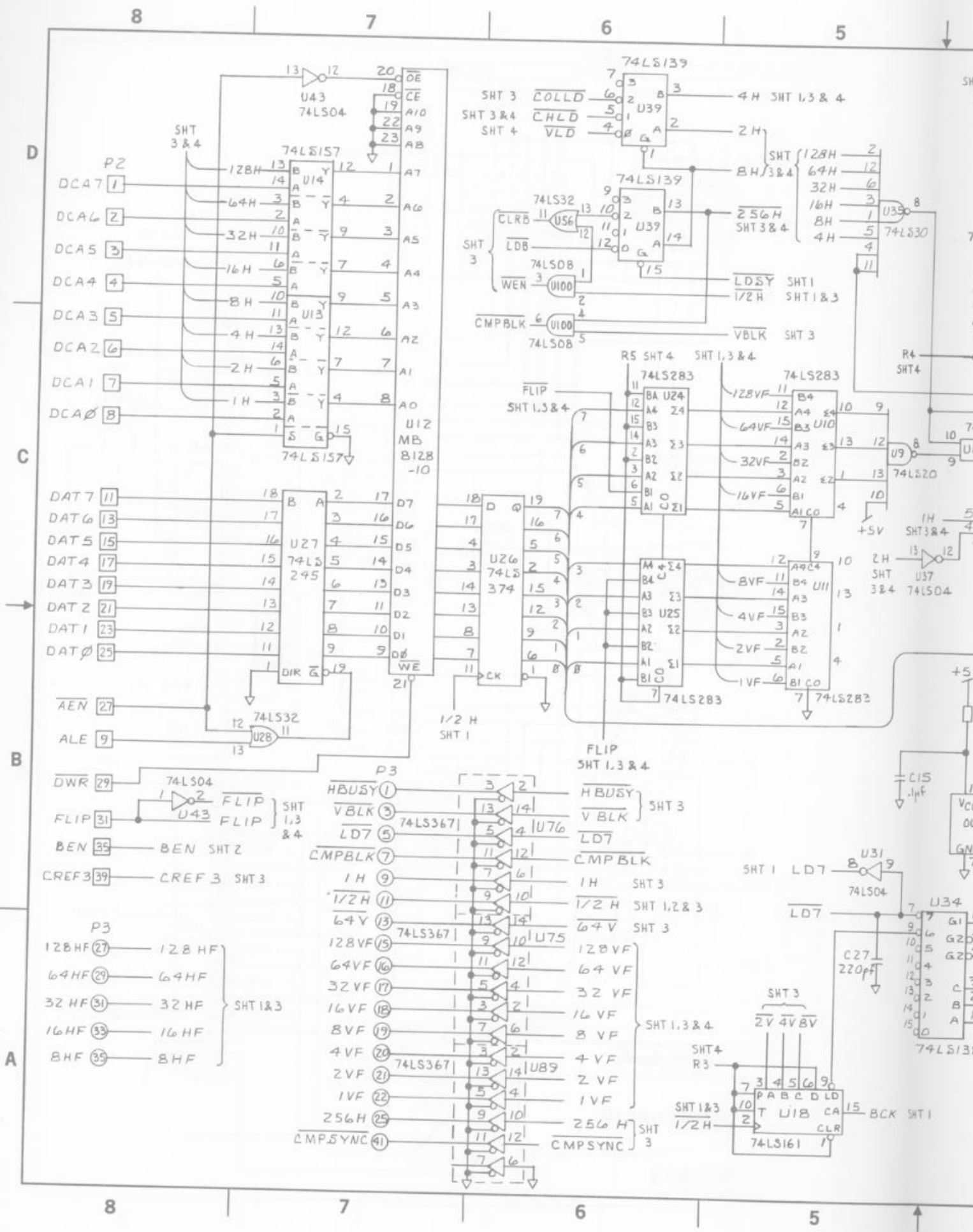
NOTES: UNLESS OTHERWISE SPECIFIED;
 1. FOR ASSY & PARTS LIST SEE 834-5167.

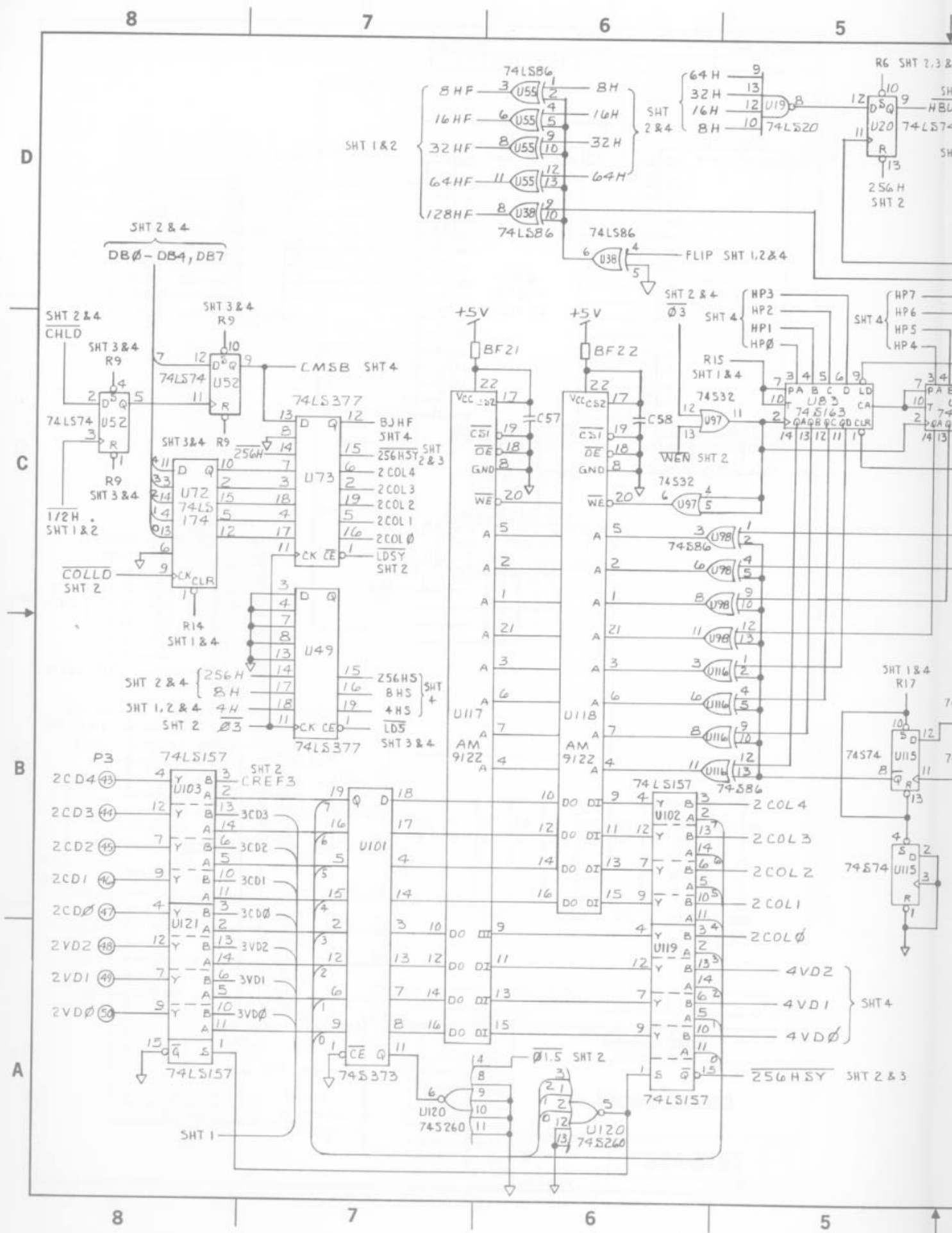
D
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605-5167

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES		
±	±	±		
MATERIAL		APPROVALS		
FINISH		DATE		
NEXT ASSY USED ON		DRAWN <i>Wynema</i> 4-8-83		
APPLICATION		CHECKED <i>Wynema</i> 5-2-83		
DO NOT SCALE DRAWING		MECH		
		ELEC		
		MFG		
		PROJECT		
		SIZE CODE IDENT NO. DRAWING NO.		REV
		D 834-5167		A
		SCALE NONE		SHEET / OF



Video Board





D

C

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8

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6

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SHT 2 & 4
DB0 - DB4, DB7

SHT 2 & 4
CHLD

SHT 3 & 4
R9

SHT 3 & 4
R9

1/2H
SHT 1 & 2

COLLD
SHT 2

SHT 2 & 4
{ 256H
8H

SHT 1, 2 & 4
4H

SHT 2
03

P3

2CD4

2CD3

2CD2

2CD1

2CD0

2VD2

2VD1

2VD0

SHT 1

SHT 3 & 4
R9

SHT 3 & 4
R9

SHT 3 & 4
R9

SHT 1 & 4
R14

SHT 2 & 4
{ 256H
8H

SHT 1, 2 & 4
4H

SHT 2
03

SHT 2
CREF3

3CD3

3CD2

3CD1

3CD0

3VD2

3VD1

3VD0

SHT 1

SHT 1 & 2

SHT 2 & 4

SHT 3 & 4
R9

SHT 3 & 4
R9

SHT 3 & 4
R9

SHT 1 & 4
R14

SHT 2 & 4
{ 256H
8H

SHT 1, 2 & 4
4H

SHT 2
03

SHT 2
CREF3

3CD3

3CD2

3CD1

3CD0

3VD2

3VD1

3VD0

SHT 1

+5V

+5V

+5V

+5V

+5V

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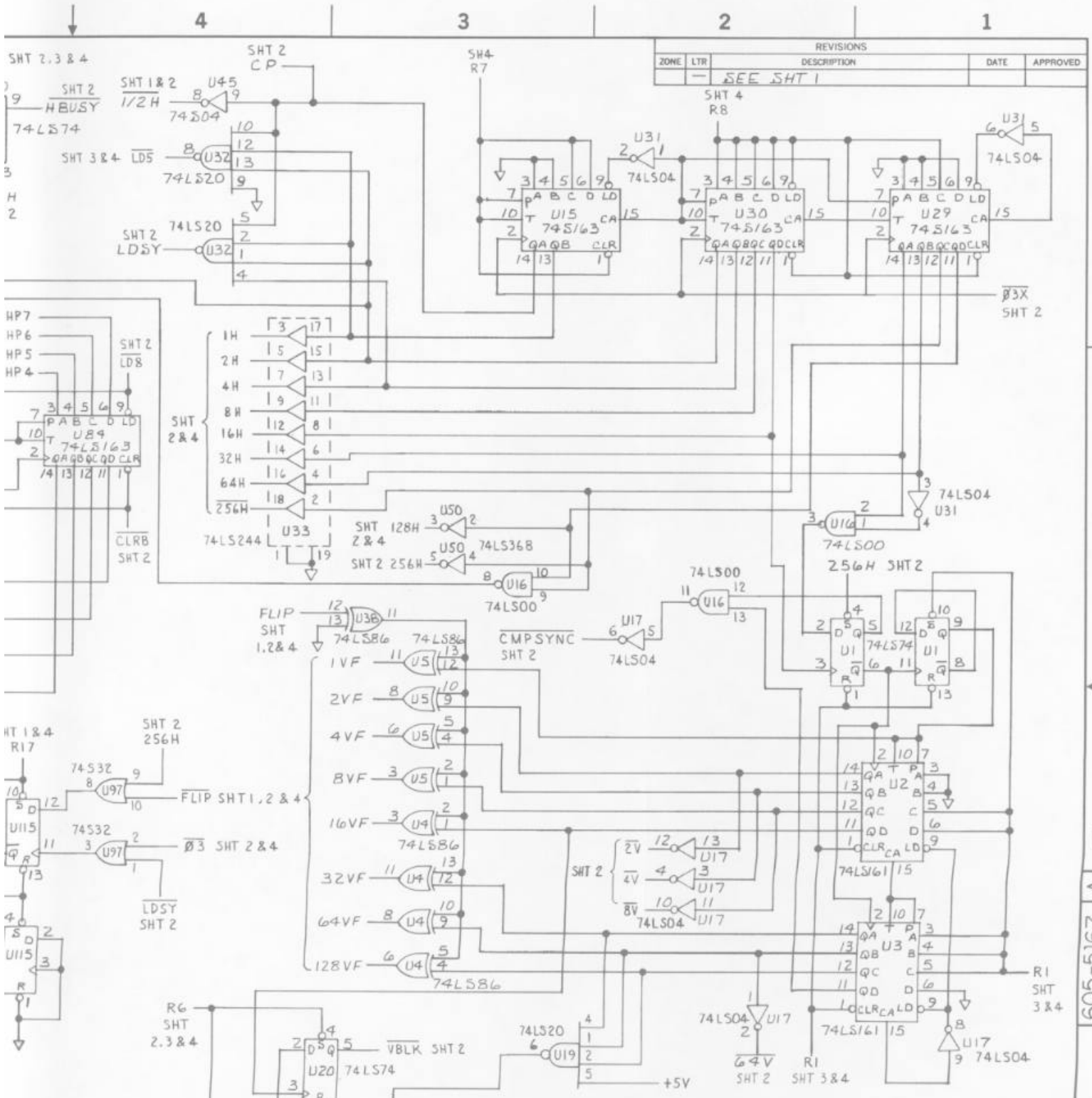
+5V

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+5V

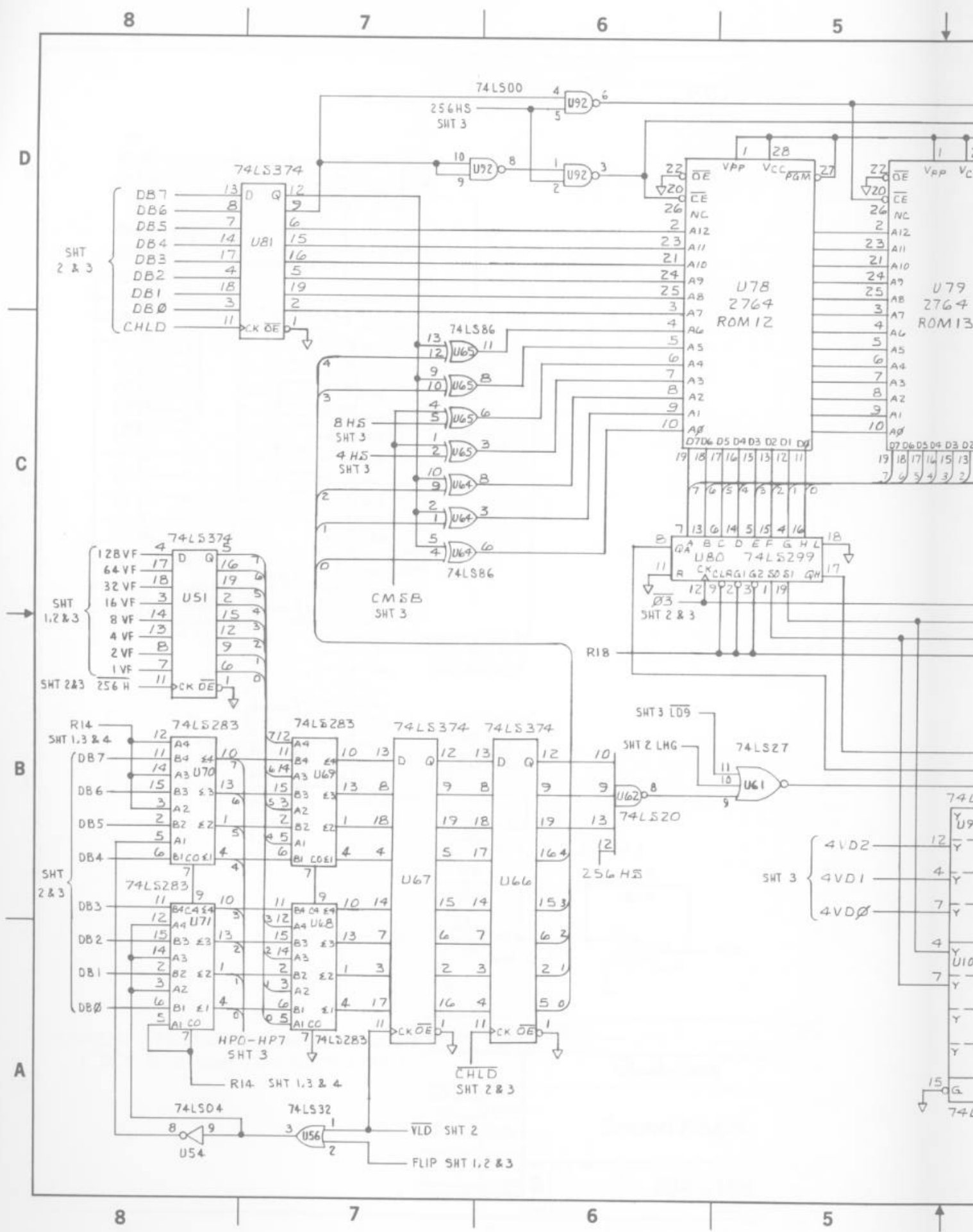


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHT 1		

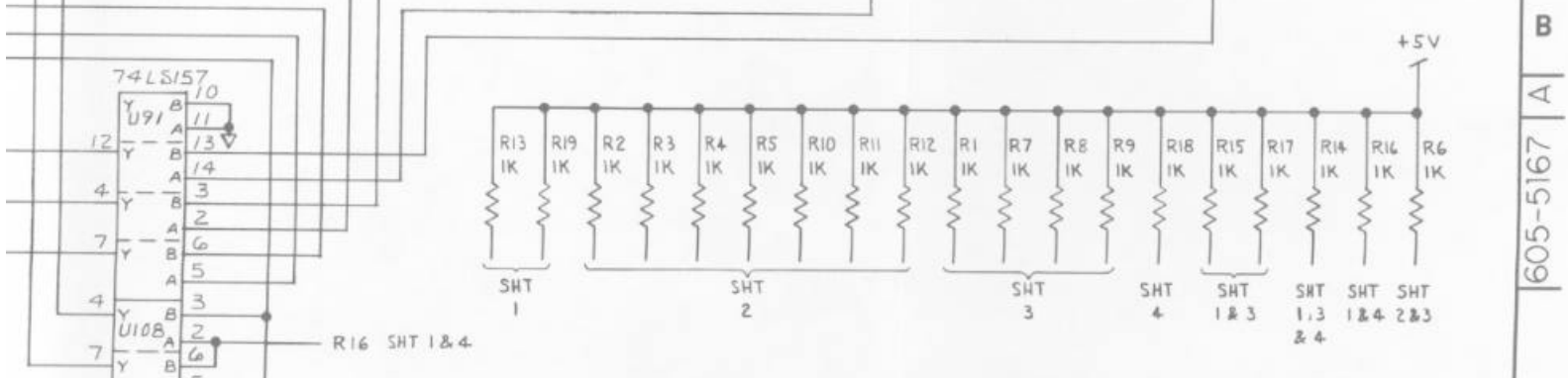
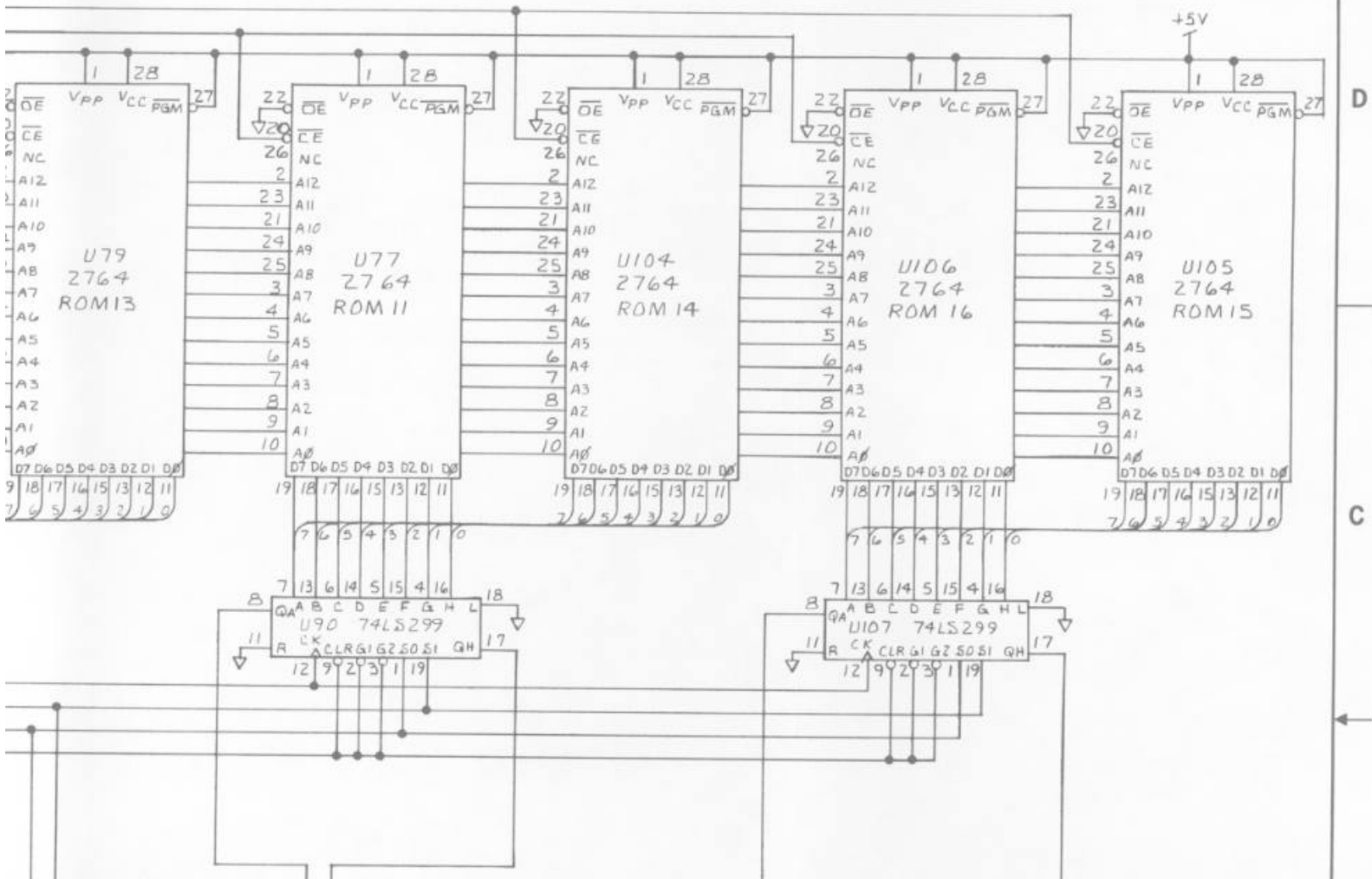
605-5167 A B C D

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES		CONTRACT NO.		
DRAWN		APPROVALS		
CHECKED		DATE		
MECH				
ELEC				
MPG				
PROJECT				
NEXT ASSY USED ON APPLICATION		DO NOT SCALE DRAWING		
		<h1>Video Board</h1>		
		SIZE D	CODE IDENT NO. 834-5167	REV A
		DRAWING NO.		SHEET 3 OF
		SCALE NONE		

A 188



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
-		SEE SHT 1		



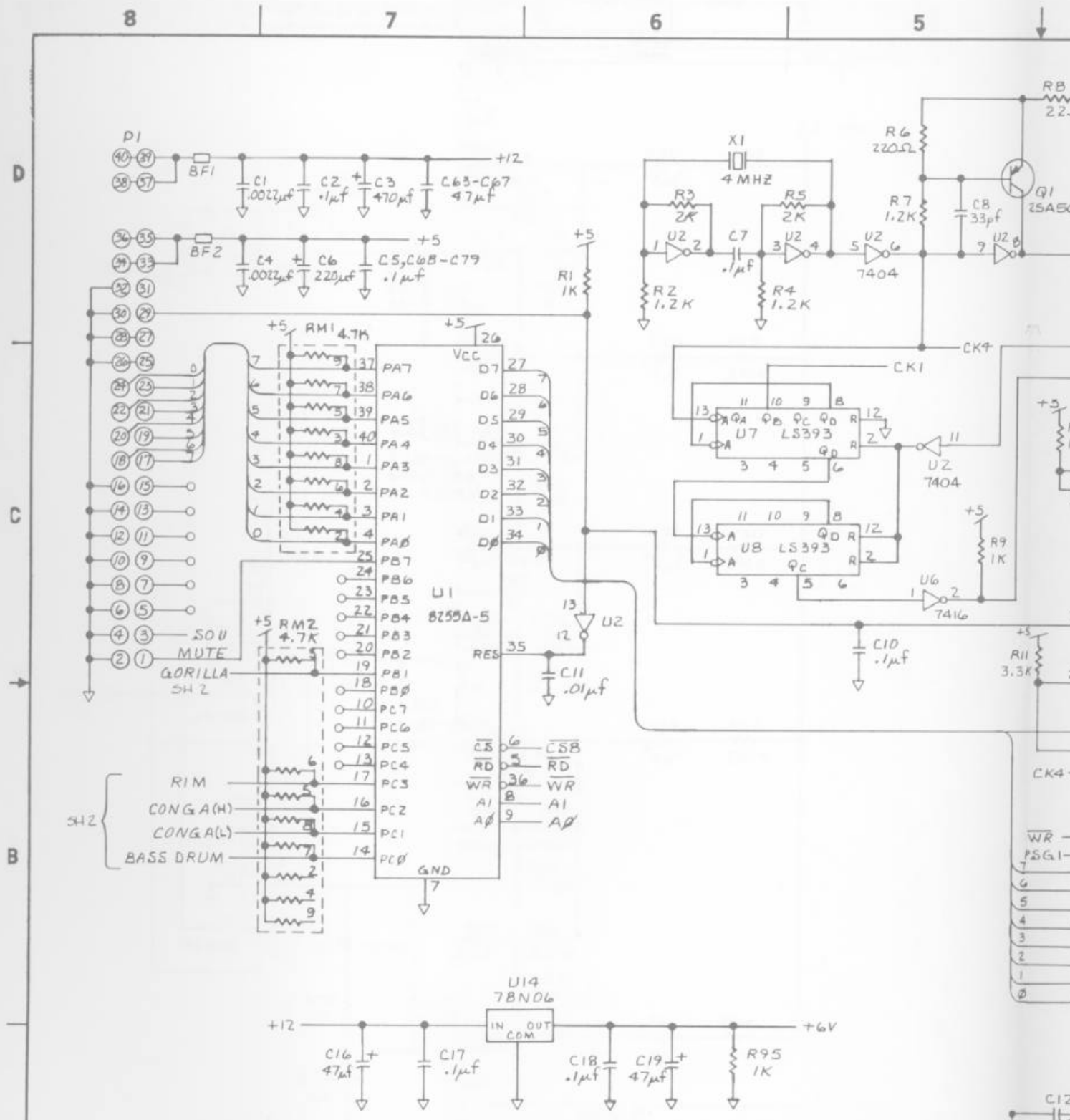
QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES	APPROVALS	DATE
±	.XX ±	±	DRAWN	
	.XXX ±		CHECKED	
MATERIAL			MECH	
			ELEC	
FINISH			MPG	
			PROJECT	
NEXT ASSY		USED ON		APPLICATION
				DO NOT SCALE DRAWING
				SCALE NONE
				SHEET 4 OF

Gremlin/SEGA
San Diego, California 92123

Video Board

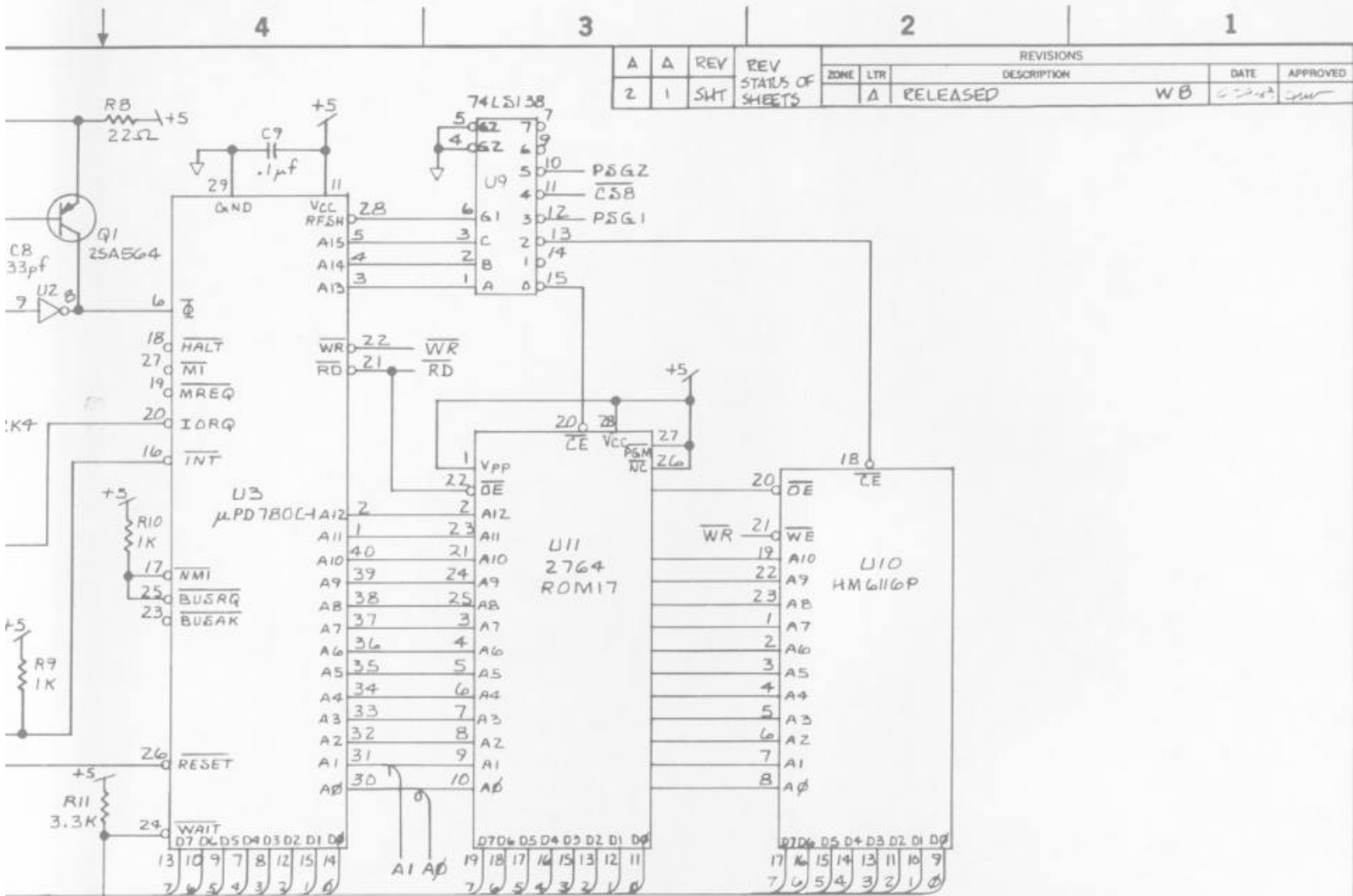
SIZE: **D** CODE IDENT NO: **834-5167** DRAWING NO: **834-5167** REV: **A**

605-5167 A B



NOTES: UNLESS OTHERWISE SPECIFIED
 1. SEE 834-5168 FOR PARTS LIST AND ASSY.



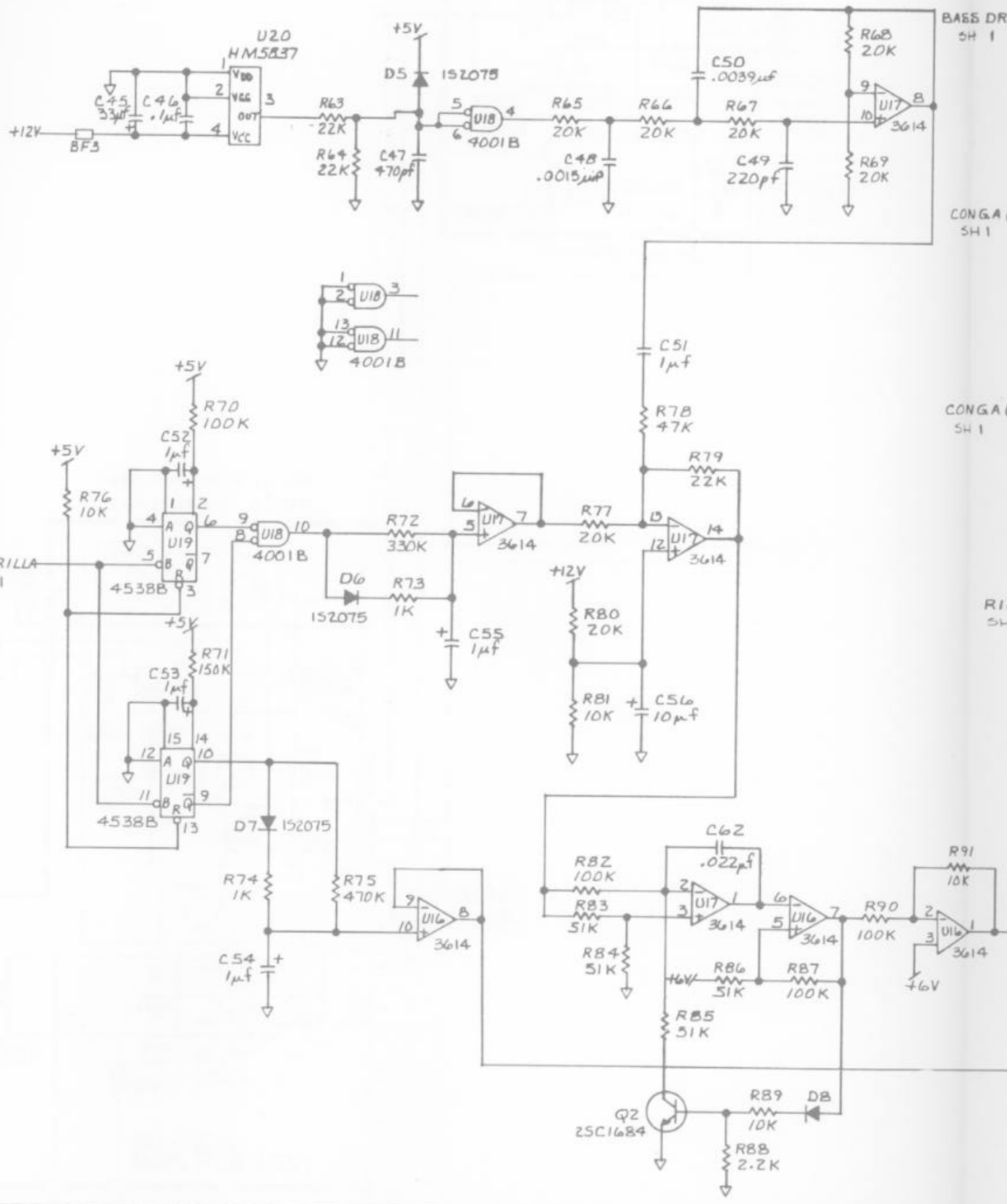


REV		REV STATUS OF SHEETS		REVISIONS			DATE	APPROVED
A	A	REV	REV STATUS OF SHEETS	ZONE	LTR	DESCRIPTION	DATE	APPROVED
2	1	SHT		A		RELEASED	WB	

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES	APPROVALS	
±	±	±	DATE	
±	±	±	DRAWN Wynema 3-17-83	
MATERIAL		CHECKED [Signature] 1-21-83		Sound Board SIZE: D CODE: IDENT NO: DRAWING NO: 834-5168 REV: Δ
FINISH		ELEC		
NEXT ASSY USED ON		MFG PROJECT [Signature] 4-29-83		
APPLICATION		DO NOT SCALE DRAWING		SCALE: NONE SHEET 1 OF 2

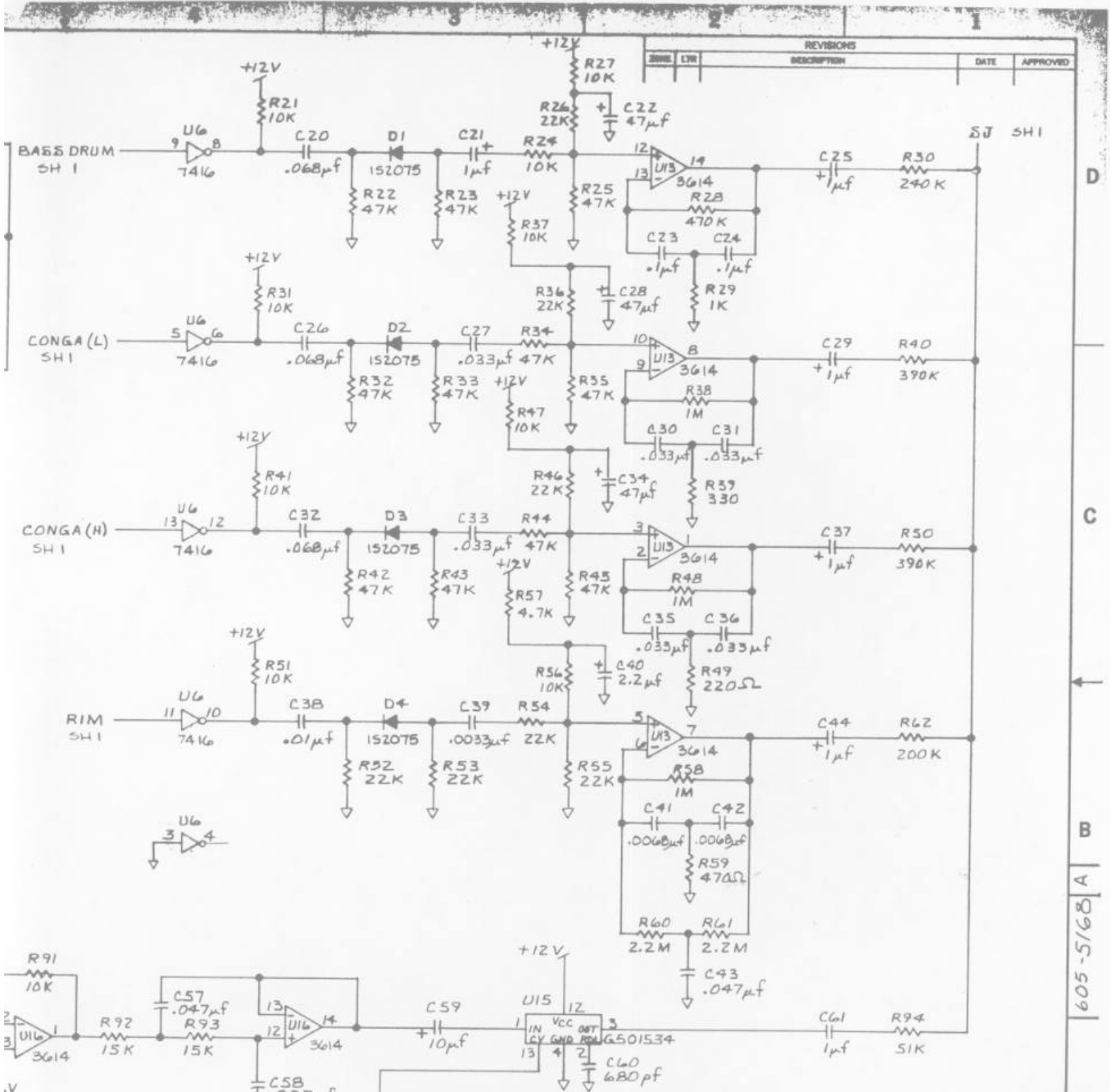
D
C
B
A
605-5168

D
C
B
A



BASS DR
SH 1
CONGA
SH 1
CONGA
SH 1
RII
SH

8 7 6 5



REVISED		REVISIONS	DATE	APPROVED

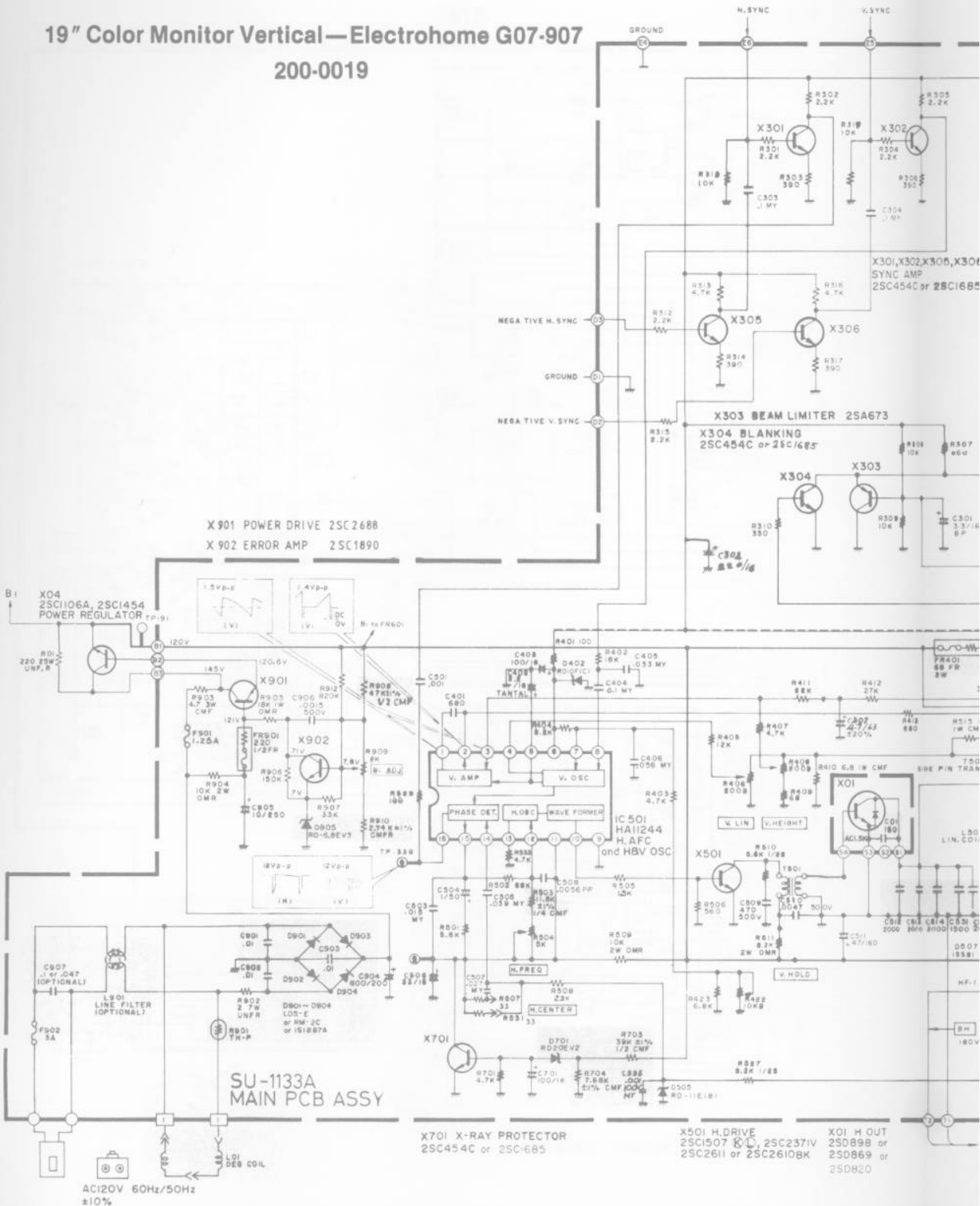
605-5168 A B C D

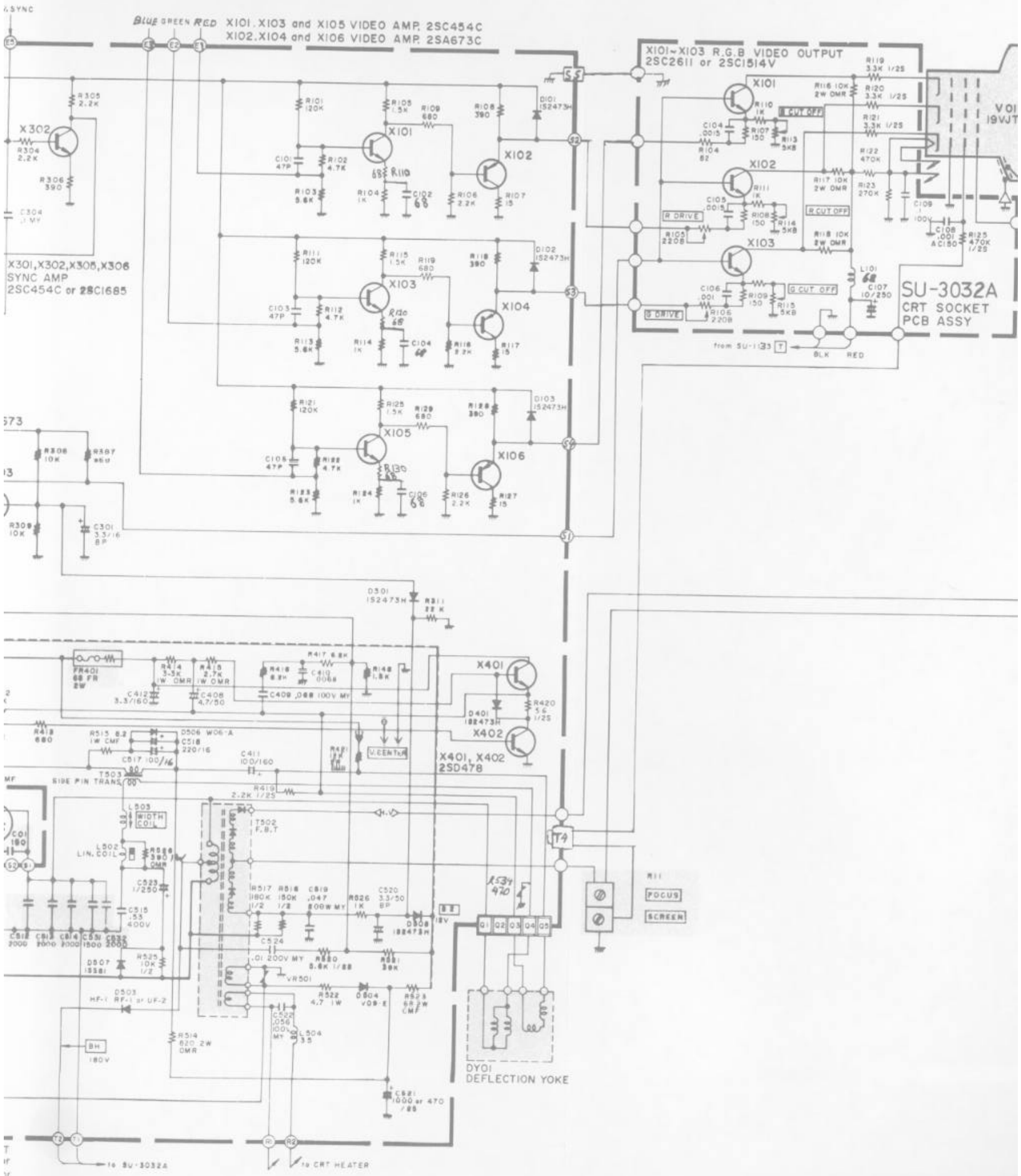
QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± ±			Gremlin/BOCA <small>San Diego, California 92103</small>	
MATERIAL		APPROVALS		DATE
FINISH		<i>Wynona</i>		3-22-83
NEXT ASSY		MECH		ELEC
USED ON		MPB		PROJECT
APPLICATION		DO NOT SCALE DRAWING		SCALE NONE
SIZE CODE IDENT NO. DRAWING NO.			REV	
D			834-5168	
SHEET 2 OF			A	

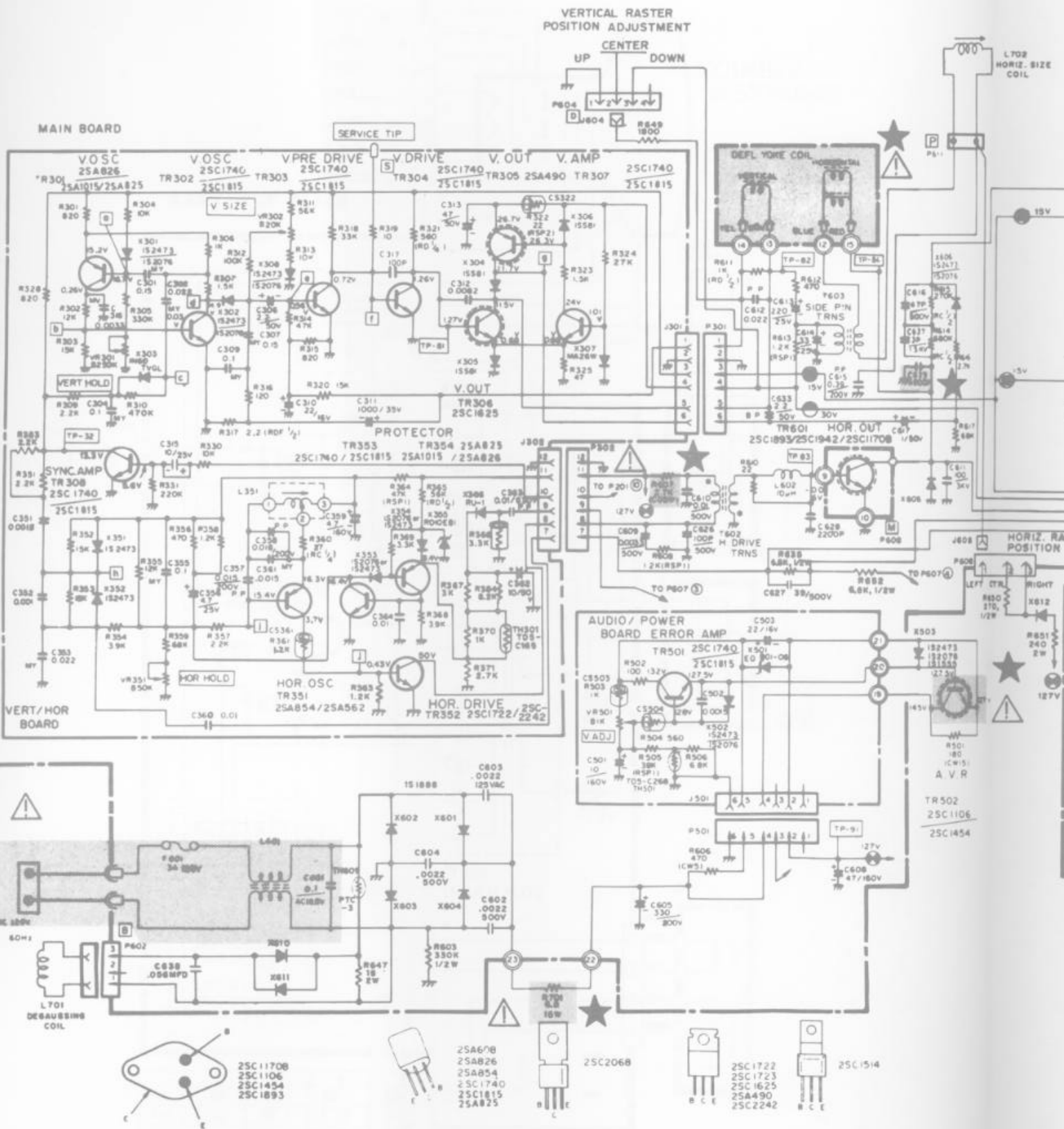
A

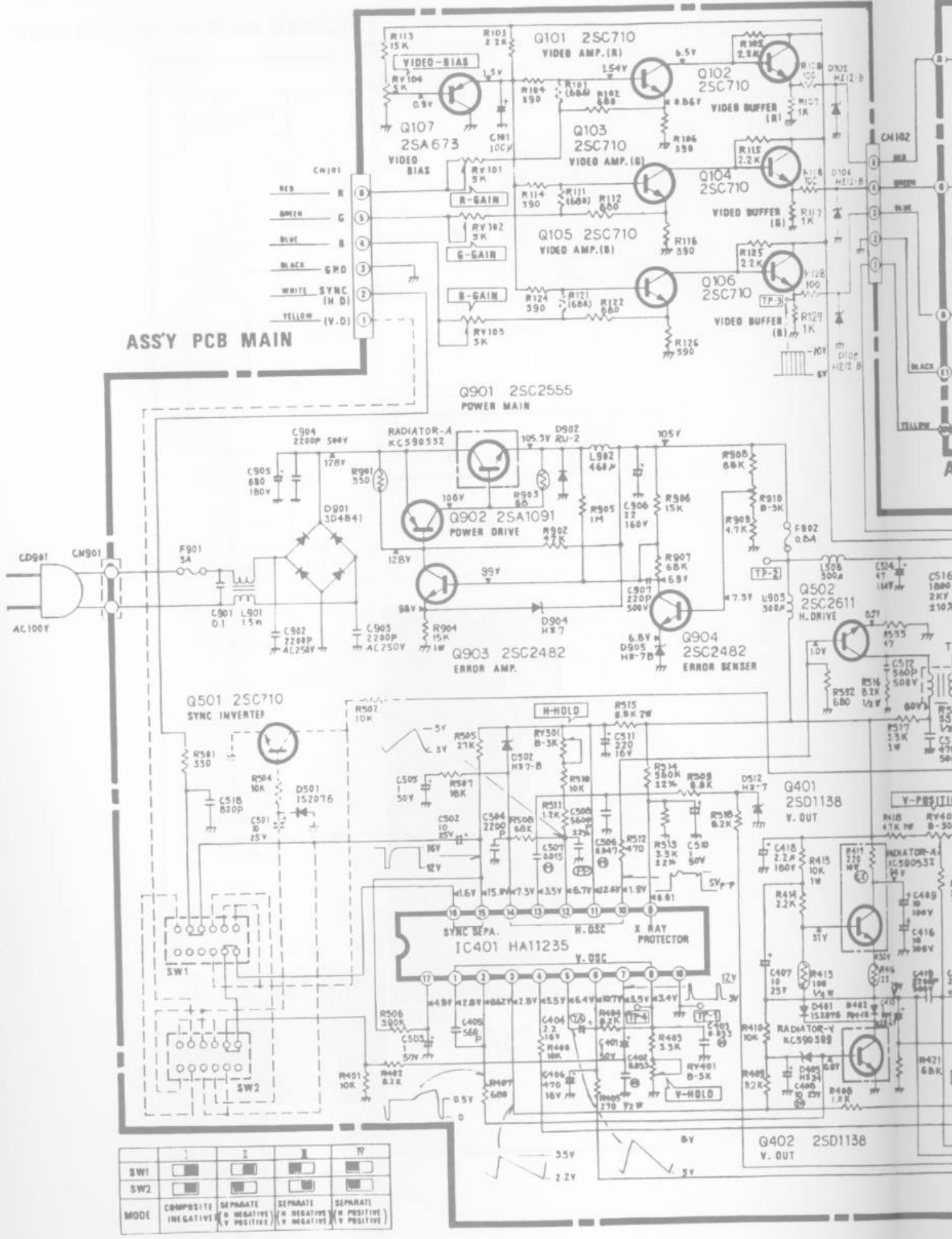
19" Color Monitor Vertical—Electrohome G07-907

200-0019









ASSY PCB MAIN

Q901 2SC2555
POWER MAIN

Q902 2SA1091
POWER DRIVE

Q903 2SC2482
ERROR AMP.

Q904 2SC2482
ERROR SENSER

Q501 2SC710
SYNC INVERTER

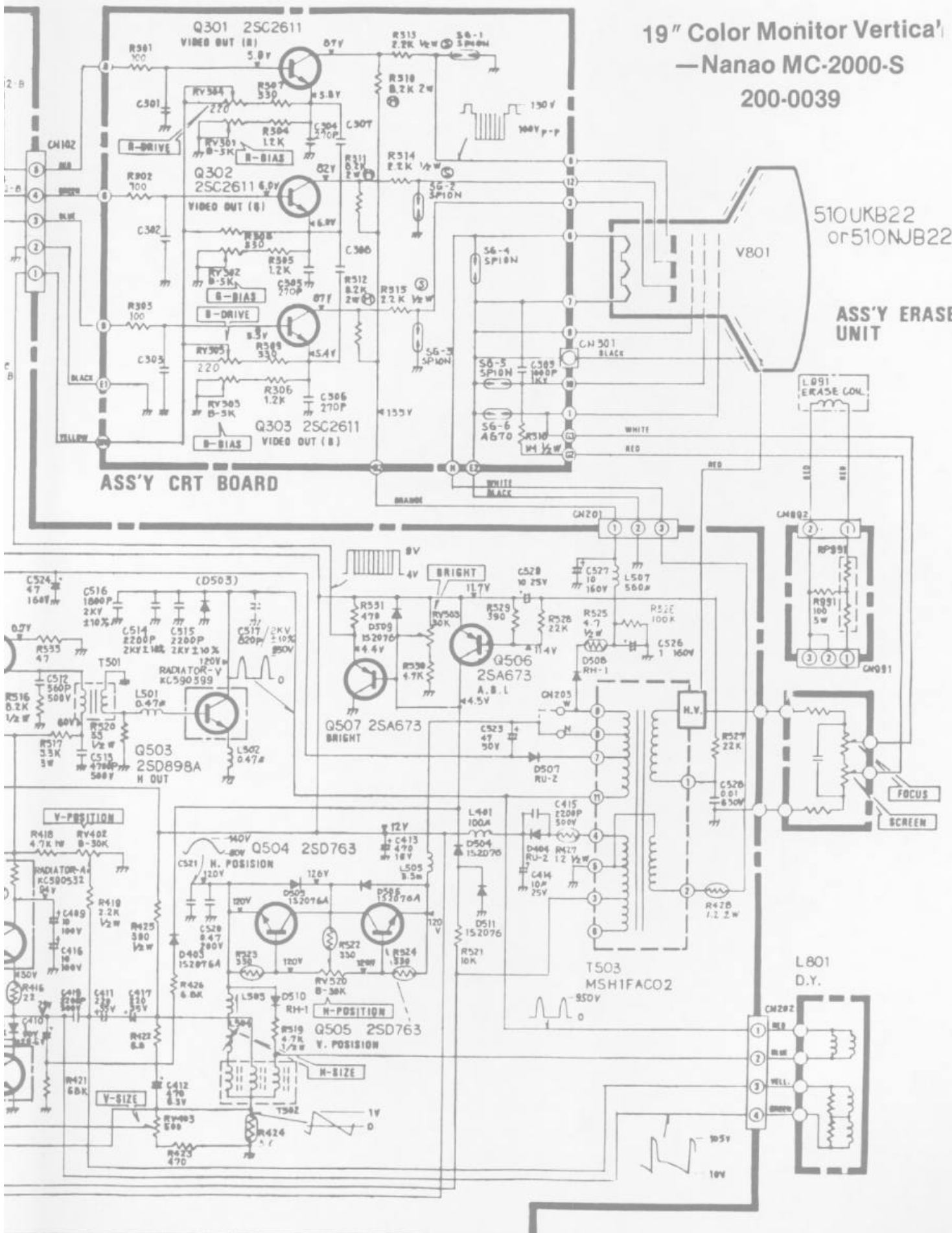
Q401 2SD1138
V. OUT

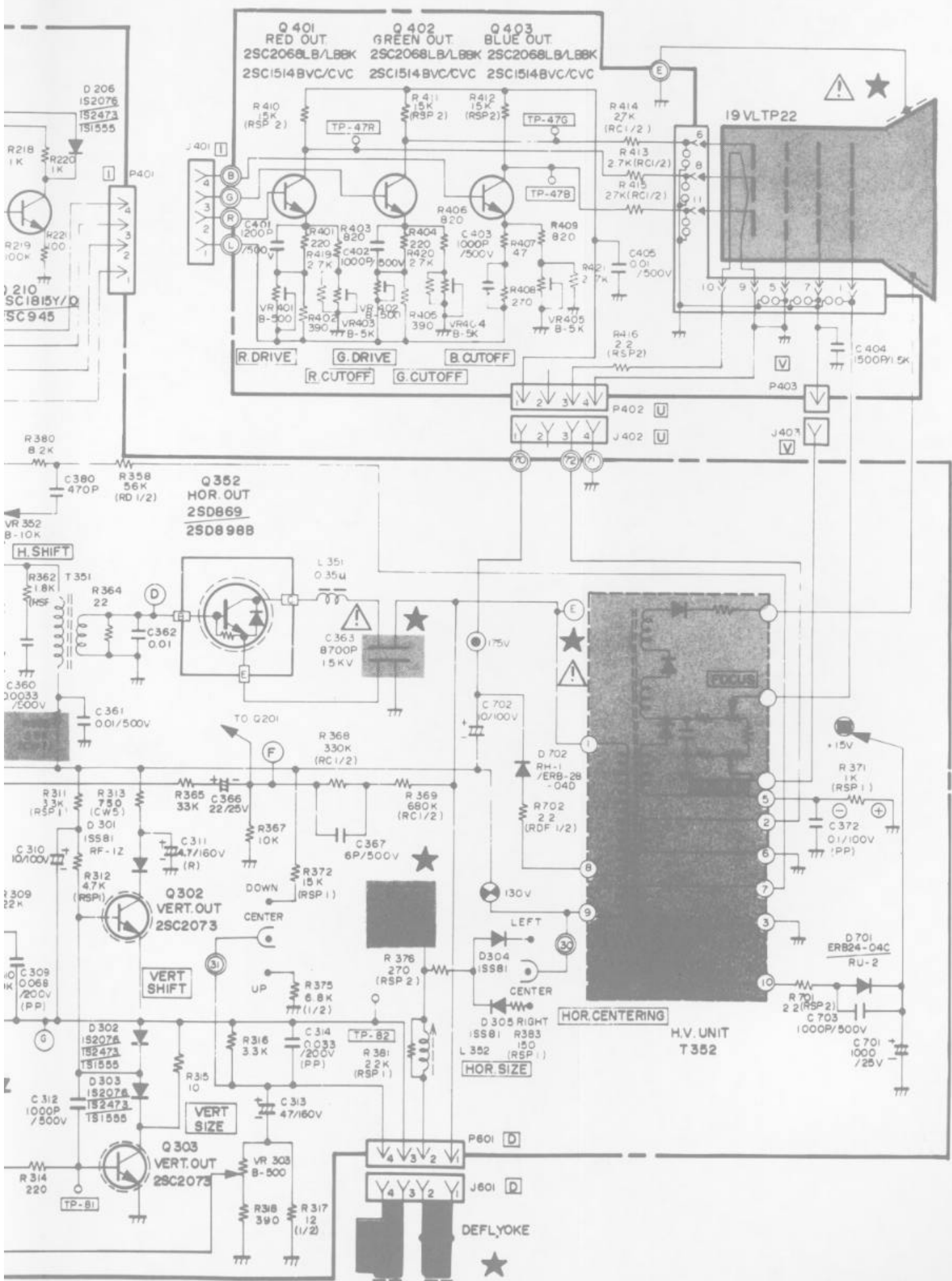
Q402 2SD1138
V. OUT

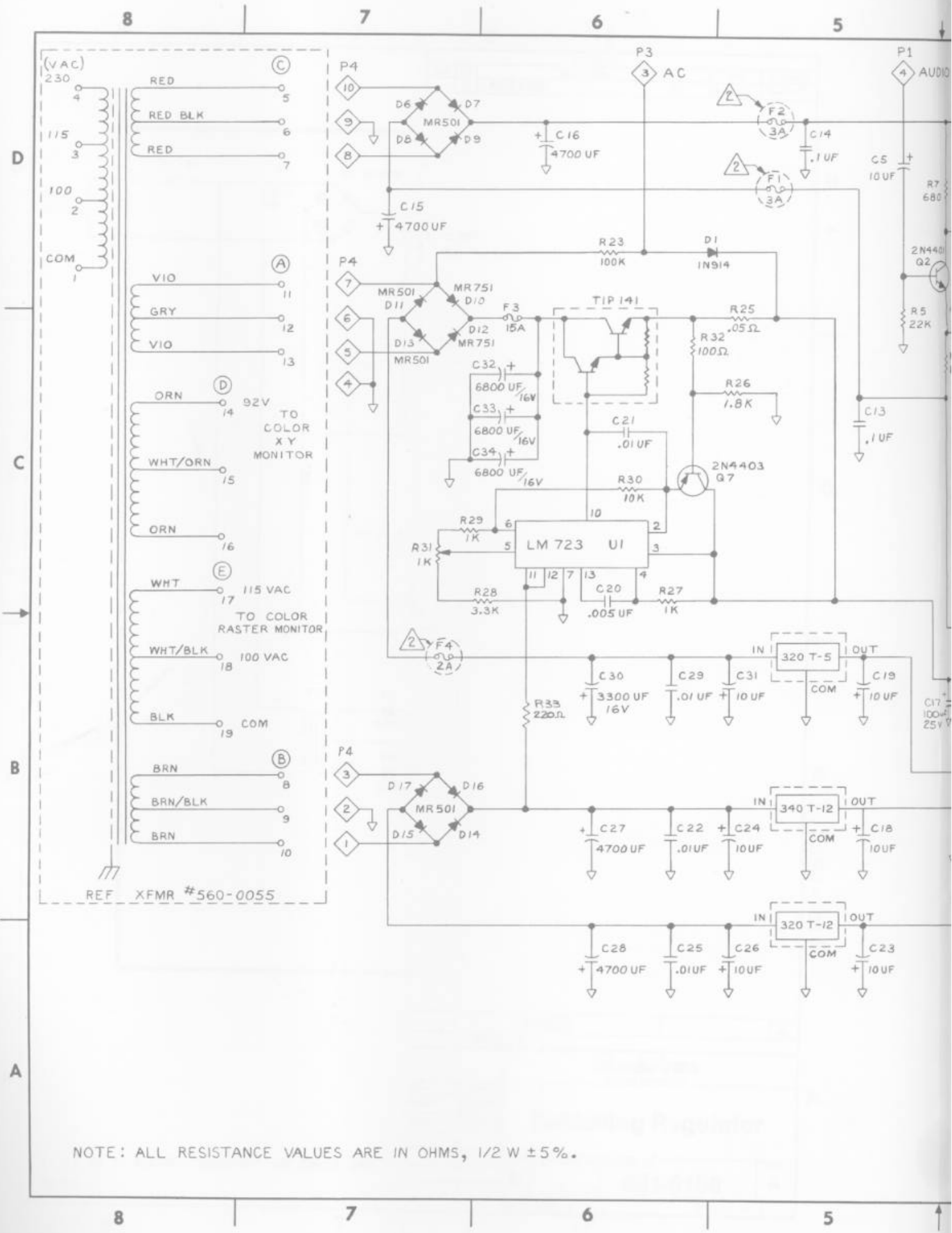
IC401 HA11235
SYNC SEPA. H. OSC X RAY PROTECTOR V. OSC

	I	II	IV
SW1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SW2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MODE	COMPOSITE INEGATIVE	SEPARATE NEGATIVE V POSITIVE	SEPARATE NEGATIVE V NEGATIVE
		SEPARATE POSITIVE V POSITIVE	SEPARATE POSITIVE V POSITIVE

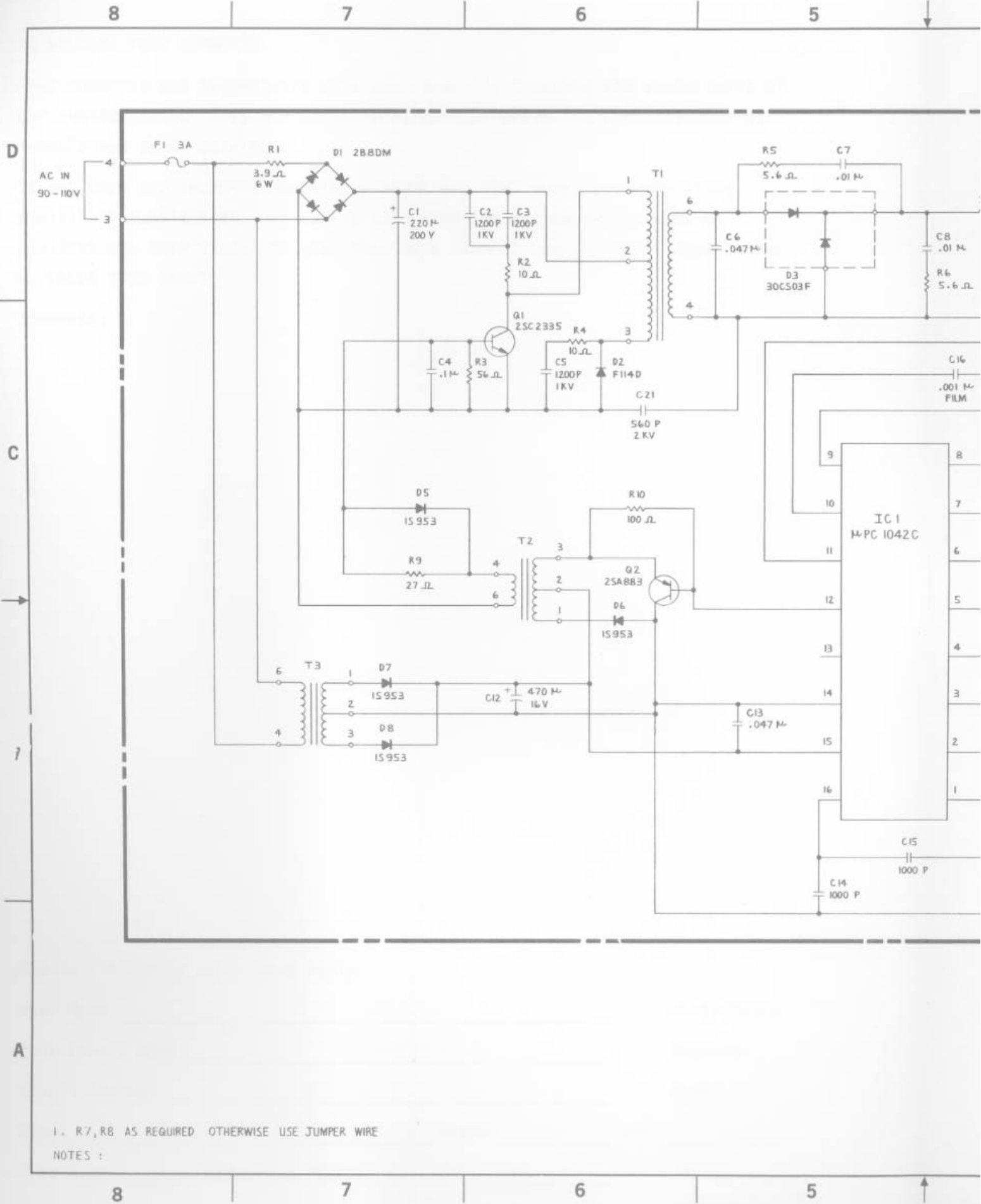
19" Color Monitor Vertical — Nanao MC-2000-S 200-0039



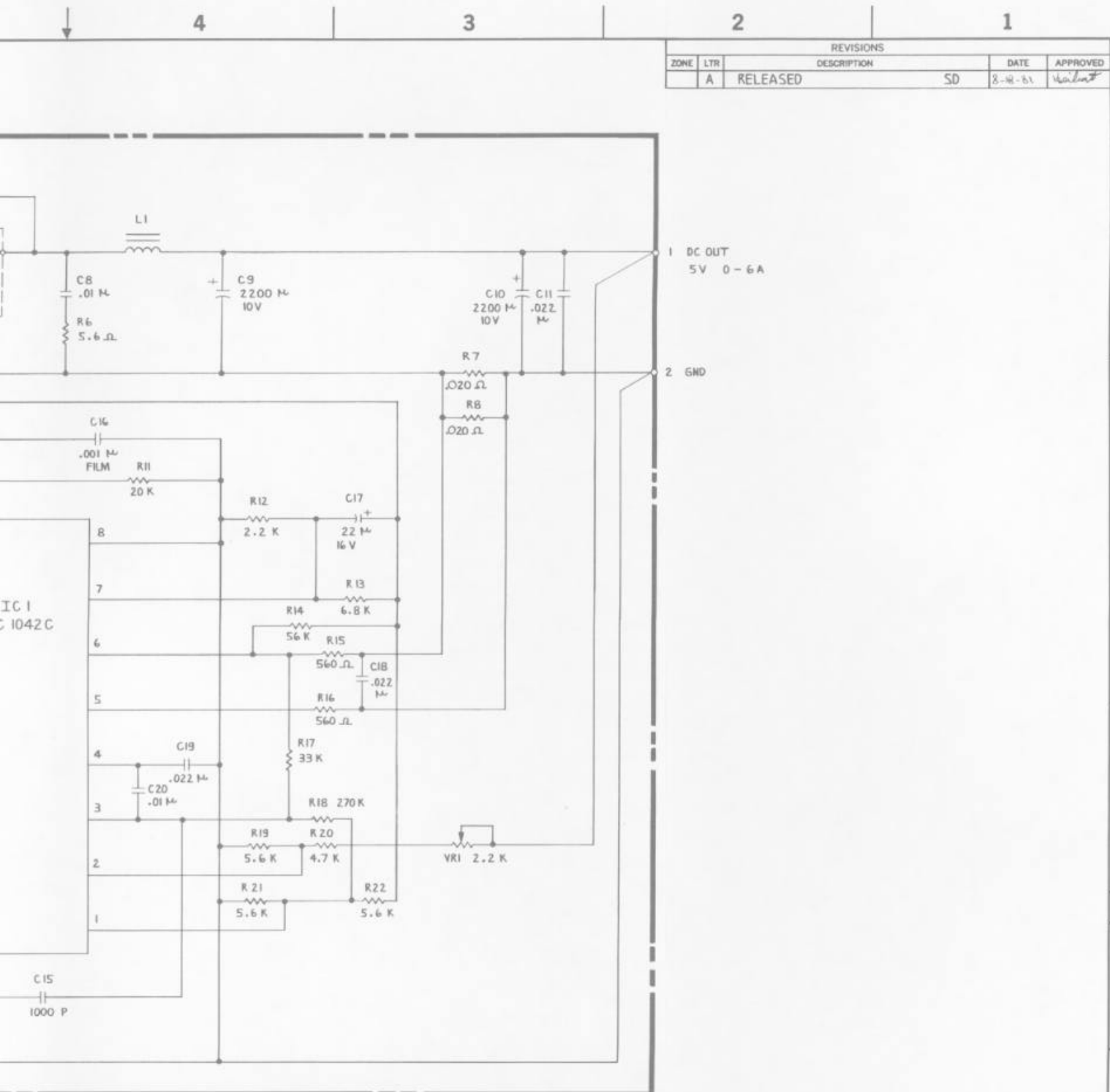




NOTE: ALL RESISTANCE VALUES ARE IN OHMS, 1/2 W ± 5%.



1. R7, R8 AS REQUIRED OTHERWISE USE JUMPER WIRE
 NOTES :



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	RELEASED	SD	8-18-81

D
C
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601-0158

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES	APPROVALS	
±	XX ±	±	DATE	
	XXX ±		DRAWN SON DUONG 8-17-81	
MATERIAL		CHECKED G. GRICE 8-17-81		
FINISH		MECH		
NEXT ASSY		ELEC		
USED ON		MFG		
APPLICATION		PROJECT		
DO NOT SCALE DRAWING		SIZE CODE IDENT NO. DRAWING NO. REV		
		D 601-0158 A		
		SCALE NONE SHEET 1 OF 1		

A

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