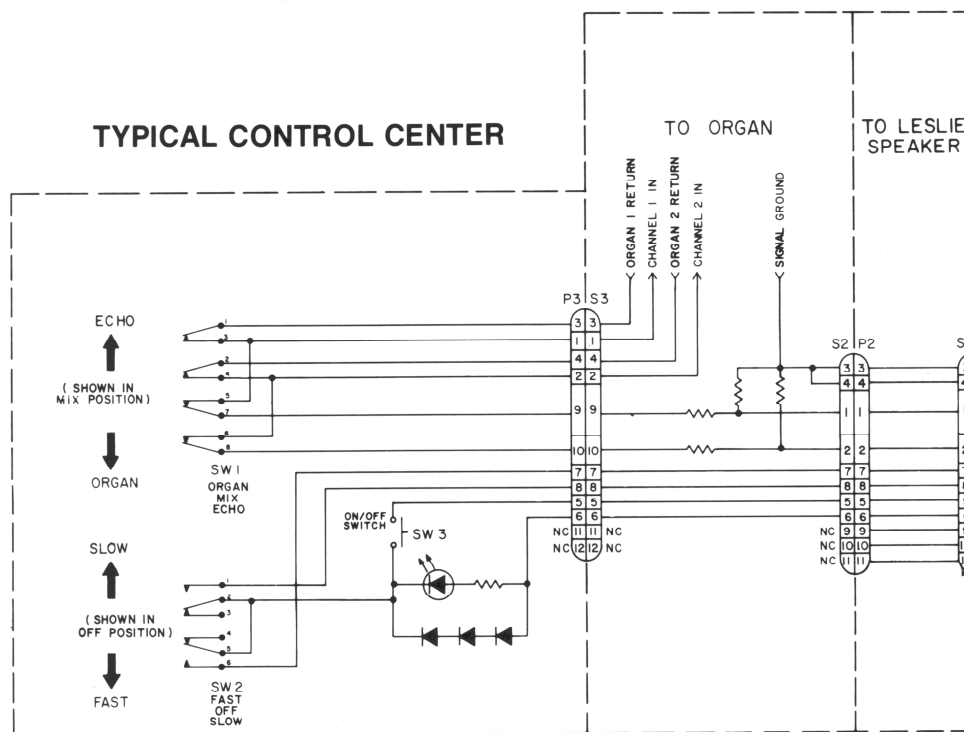
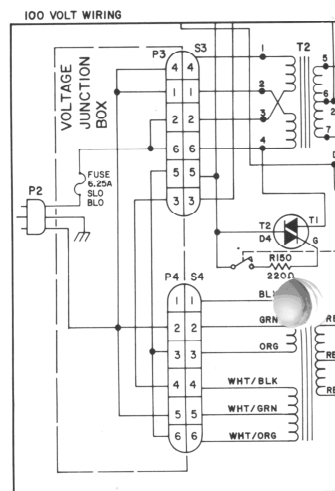
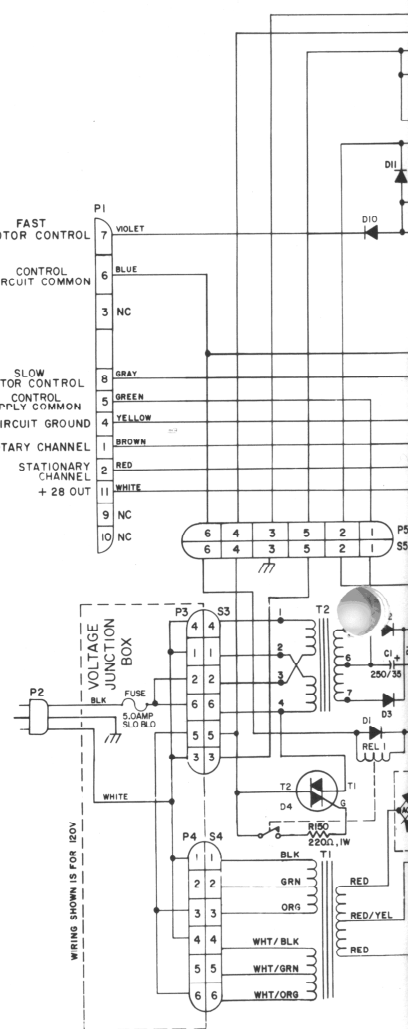
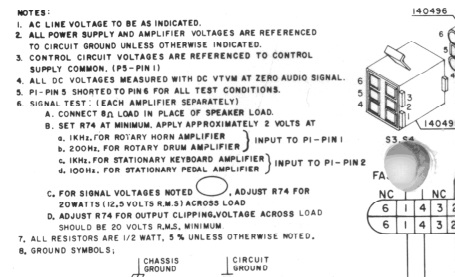


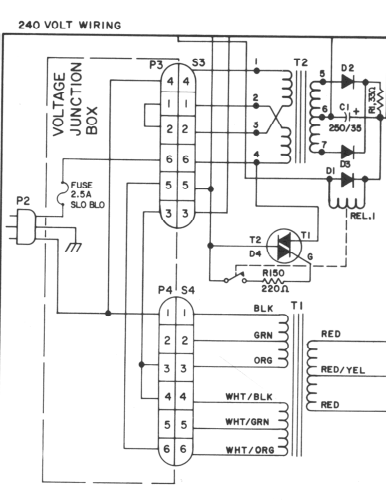
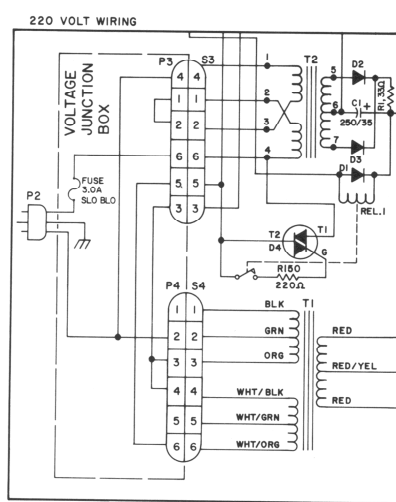
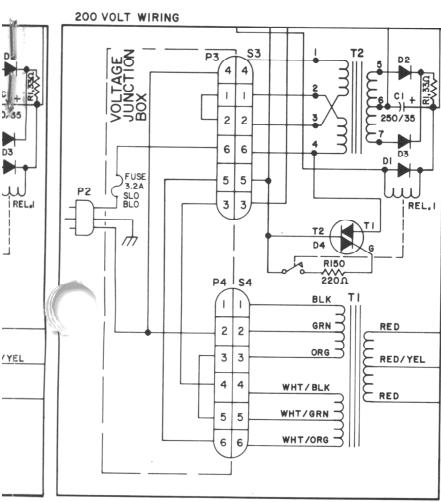
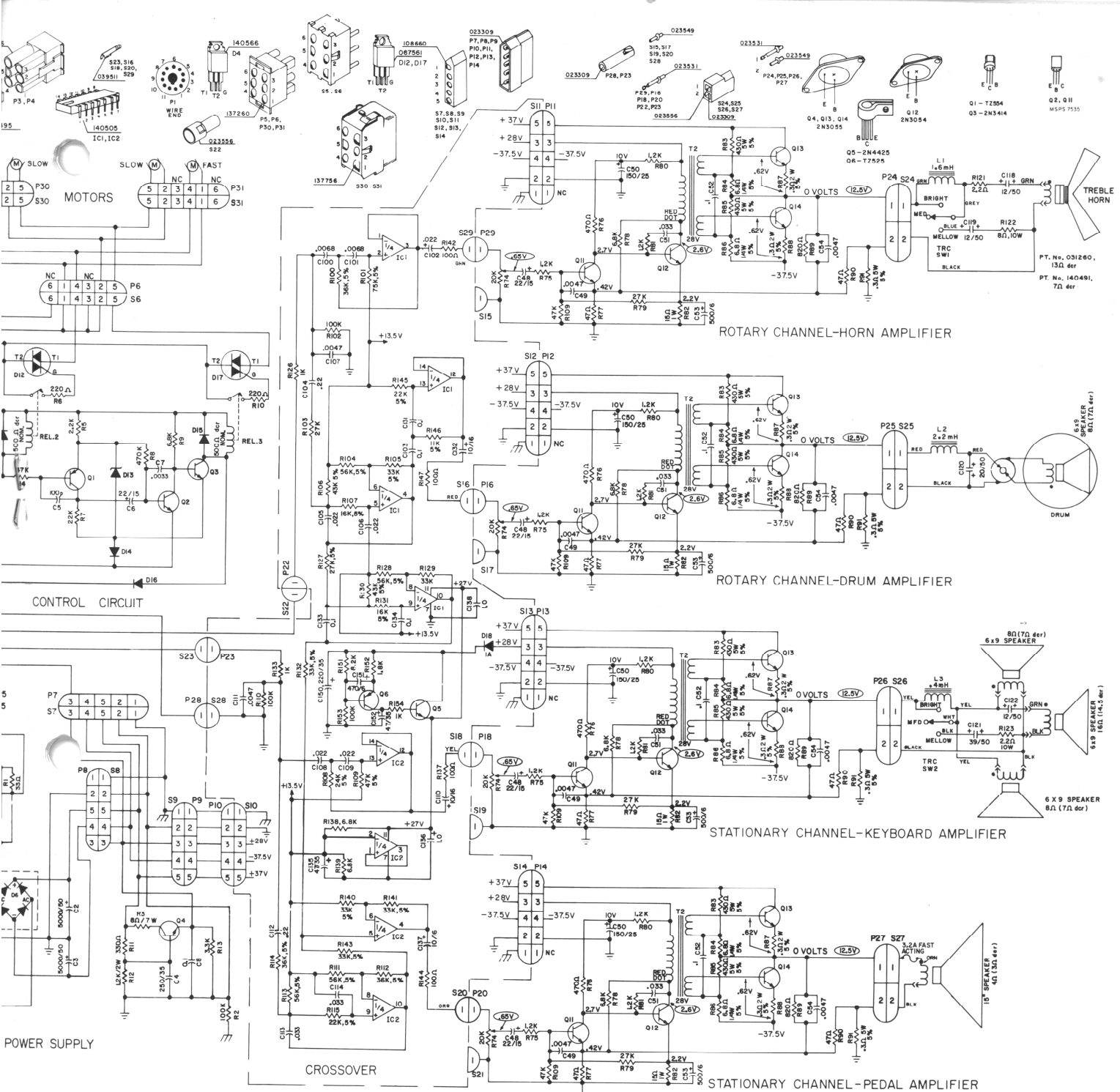
MARYLAND ORGAN SERVICE
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410.737.4717
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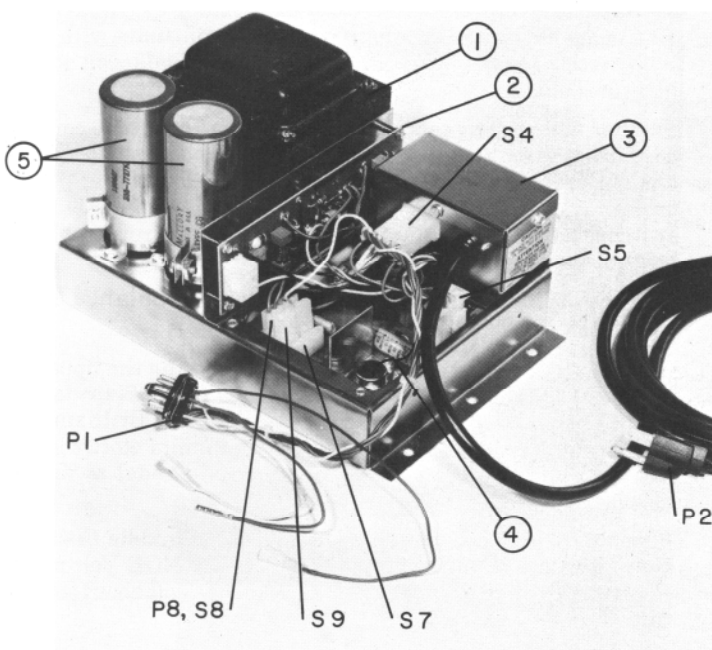


An 11-conductor cable (part of the console connector kit) carries the various signals and voltages to input plug P1 as described here.

Pin No.	Function
1	Rotary channel audio input (flute/tibia.)
2	Stationary channel audio input (pedal/bass).
3	NC
4	Audio ground. Common to all channels.
5	Control supply common.
6	Control circuit common. When circuit to pin 5 is completed the cabinet circuits are turned on.
7	Fast motor control (Circuit completed through pin 5.)
8	Slow motor control (Circuit completed through pin 5.)
9	NC
10	NC
11	B+ out (28 volts)







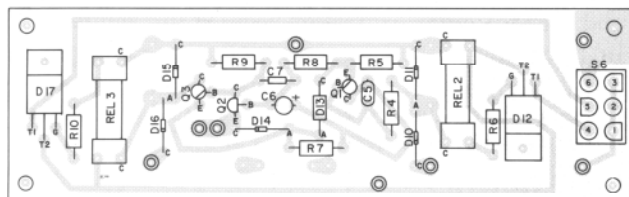
POWER SUPPLY (120V version) 141661

Item	Description	Part No.
	Includes:	
	Power Supply Assembly	140521
2	Motor Control Assembly	138580
3	Power Cord Adapter 120V	140528

(Note: The complete Power Supply consists of the Power Supply Assembly — 140521, Motor Control Assembly — 138580 and a Power Cord Adapter — see Item 3. When ordering other voltages list all assemblies needed.)

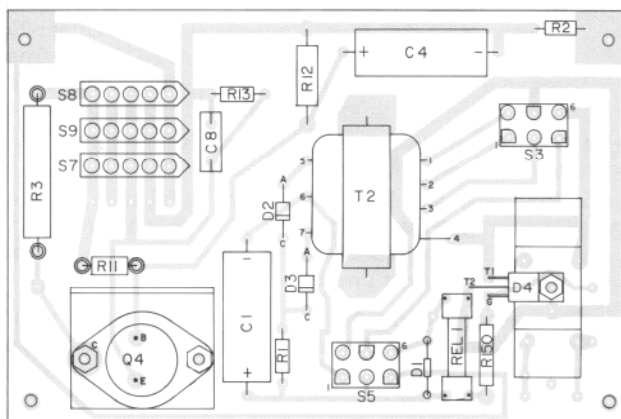
Item	Description	Part No.
1	Transformer Assembly, power, multi-voltage (T1)	140523
2	Motor Control Assembly	138580
	Includes:	
	Circuit Board Assembly (137325)	
	Cable & Plug Assembly (138582)	
3	Power Cord Adapter	
	100V	140586
	120V	140528
	200V	140587
	220V	140584
	240V	140585
	240V Australia	140588
	220V Scandinavia	140655
4	Power Supply Circuit Board Assembly	140522
5	Capacitor, electrolytic, 500mfd 50VDC (C2, C3)	138627
	Rectifier, bridge (mounted beneath) D6	140449

CONTROL CIRCUIT BOARD ASSEMBLY (138580)



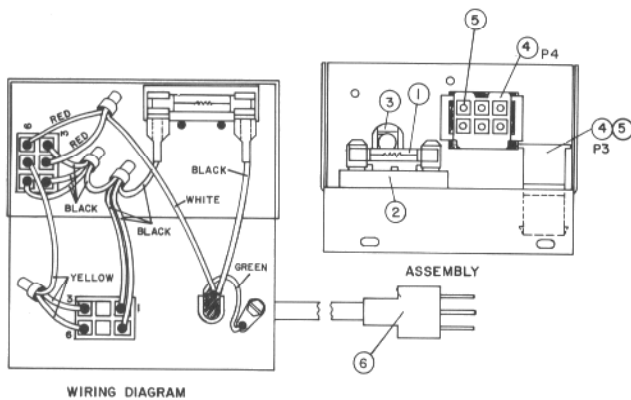
Item	Description	Part No.
C5	Capacitor, disc, 100pF, 1000V	028027
C6	Capacitor, tantalum, 22mfd, 15V	062638
C7	Capacitor, disc, 3300pF, 100V	067546
D10, D11	Diode, silicon, 1-amp	021154
D12	Triac, silicon, 8-amp, 400PIV	067561
D13	Diode, Zener, 6.7V	118870
D14	Diode, silicon, 500mW, 30 PIV	041616
D15, D16	Diode, silicon, 1-amp	021154
D17	Triac, silicon, 8-amp, 400 PIV	067561
Q1	Transistor, PNP, TZ554	033589
Q2	Transistor, NPN, MSPS4382	026237
Q3	Transistor, NPN, 2N3414	030254
R4	Resistor, 47K, 1/2W, 5%	063677
R5	Resistor, 2.2K, 1/2W, 5%	137758
R6	Resistor, 220-ohm, 1/2W, 5%	028381
R7	Resistor, 22K, 1/2W, 5%	028365
R8	Resistor, 470K, 1/2W, 5%	018002
R9	Resistor, 6.8K, 1/2W, 5%	016501
R10	Resistor, 220-ohm, 1/2W, 5%	028381
REL 2,3	Relay, reed & coil, 375V breakdown	137454
S6	Housing, socket, AMP universal, 6-circuit, natural (white)	137258

POWER SUPPLY CIRCUIT BOARD ASSEMBLY (141448)



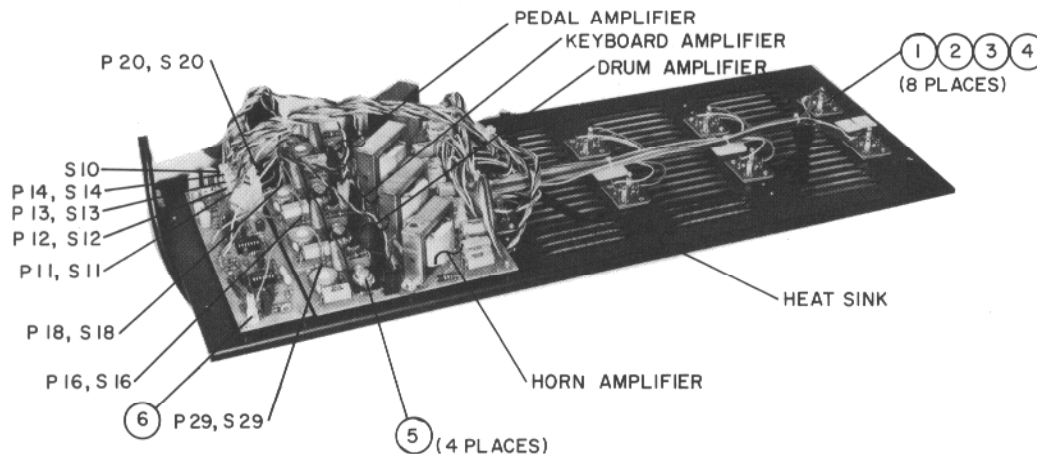
Item	Description	Part No.
	Circuit Board, Etched	140459
T2	Transformer, control	140414
Rel 1	Relay Coil and Switch, 1kV	137456
D4	Triac	067561
Q4	Transistor, 2N3055	023762
D2, D3	Diode, 100 PIV, 1A	021154
D1	Diode, 30PIV 500mW	041616
C1, C4	Capacitor, electrolytic, 250MF, 35V	065086
C8	Capacitor, poly, 0.1MF 200V	022251
R1	Resistor, CF 33ohm, .5W, 5%	137344
R150	Resistor, 220-ohm, 1W	139942
R2	Resistor, 100K .5W, 5%	137765
R13	Resistor, 3.3K, .5W, 5%	024141
R11	Resistor, 330-ohm, .5W, 5% F.P.	141453
R12	Resistor, 1.2K, 2W	137974
R3	Resistor, ww, 8-ohm, 7W, 10%	141432
S3	Housing, Socket, 6CKT, Modified	040514
S5	Housing, Socket, 6CKT, AMP UNIV.	137258
S7	Housing, Socket, 5CKT	106970
S8	Housing, Socket, 5CKT	106970
S9	Housing, Socket, 5CKT	106970

TYPICAL POWER CORD ADAPTER



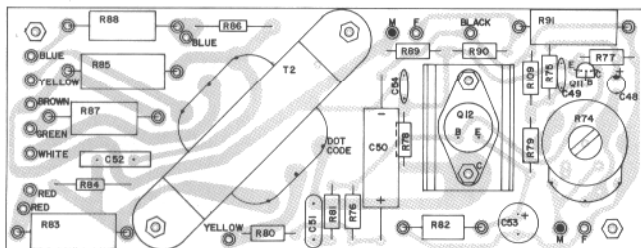
Item	Description	Part No.
1	Fuse	140508
2	Fuseholder, clip type	140490
3	Bushing, strain relief, 6P3-4	037986
4	Housing, plug, Molex, 6-circuit (P3, P4)	140495
5	Contact, insert, Molex, female	023556
6	Cable Assembly, 117VAC (used on 100V, 120V)	039636
	Cable Assembly, 250 VAC (used on 200V, 220V, 240V)	129950
	Cable Assembly, 240 VAC (used on Australian 240V)	129960

AMPLIFIER (140804)

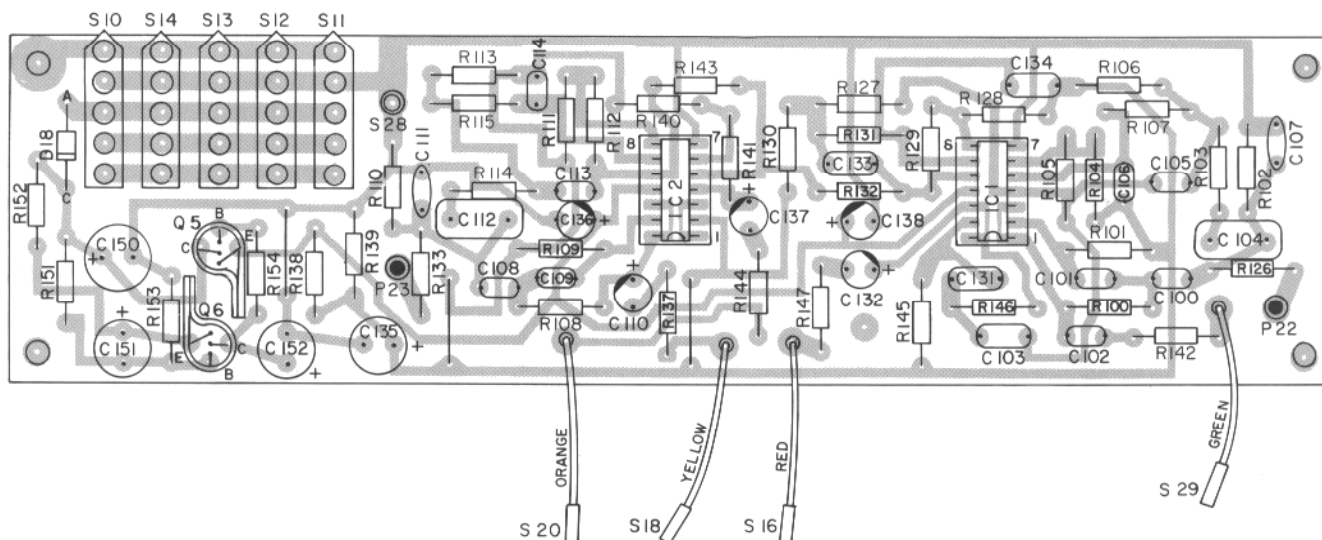


Item	Description	Part No.	Item	Description	Part No.
1	Transistor, 2N3055 (Q13, Q14) (4 each)	023762	4	Cover, transistor	023580
2	Washer, insulating, transistor	023176	5	Circuit Assembly, driver (includes cable assembly 045781 and circuit board assembly 140561)	140562
3	Socket, Transistor	023168	6	Circuit Assembly, crossover (includes circuit board assembly 140806)	140805

CIRCUIT BOARD ASSEMBLY (140562) for PEDAL, KEYBOARD, DRUM and HORN AMPLIFIERS



Item	Description	Part No.	Item	Description	Part No.
C48	Capacitor, tantalum, 22mfd, 15V (white dot is +)	062638	Q11	Transistor, MSPS 7535	026237
C49, C54	Capacitor, disc, 4700pF, 100VDC	028431	Q12	Transistor, 2N3054	023754
C50	Capacitor, electrolytic, 150mfd, 25VDC	031294	R74	Potentiometer, 20K	037648
C51	Capacitor, mylar, .033mfd, 100VDC	028654	R75, R80, R81	Resistor, 1.2K, 1/2W, 5%	018036
C52	Capacitor, polyester, 0.1mfd, 200VDC	022251	R76	Resistor, 470-ohm, 1/2W, 5%	028068
C53	Capacitor, electrolytic, 500mfd, 6VDC	055483	R77, R90	Resistor, 47-ohm, 1/2W, 5%	016311
			R78	Resistor, 6.8K, 1/2W, 5%	016501
			R79	Resistor, 27K, 1/2W, 5%	021535
			R82	Resistor, 15-ohm, 1W 5% N.F.	141455
			R83, R85	Resistor, wire-wound, 430-ohm, 5W, 5%	023648
			R84, R86	Resistor, 6.8-ohm, 1/4W, 5% N.F.	141454
			R87, R88	Resistor, wire-wound, 0.3-ohm, 2W, 5%	141451
			R91	Resistor, wire-wound, 0.3-ohm, 5W, 5%	023218
			R89	Resistor, 820-ohm, 1/2W, 5%	028373
			R109	Resistor, 47K, 1/2W, 5%	063677
			T2	Transformer, driver (Early models may have driver transformers #023770 or #023788. Use transformer #140560 when replacing.)	140560
				Circuit Board, Etched	022848



ELECTRONIC CROSSOVER BOARD ASSEMBLY (140805)

Item	Description	Part No.	Item	Description	Part No.
Capacitors					
C100,C101	mylar, .0068mfd, 10%	140451	R111	56K, ½W, 5%	137766
C102	mylar, .022mfd, 5%	137751	R112	36K, ½W, 5%	140548
C103	mylar, 0.1mfd, 10%	140504	R113	56K, ½W, 5%	137766
C104	mylar, 0.22mfd, 10%	140366	R114	36K, ½W, 5%	140548
C105,C106	mylar, .022mfd, 5%	137751	R115	22K, ½W, 5%	028365
C108			R126	1K, ½W, 5%	018044
C109	mylar, .022mfd, 5%	137751	R127	27K, ½W, 5%	021535
C110	tantalum, 10mfd, 16V	041707	R128	56K, ½W, 5%	137766
C111,C107	disc, .0047mfd, 100V, 20%	028431	R129	33K, ½W, 5%	137767
C112	mylar, 0.22mfd, 10%	140366	R130	43K, ½W, 5%	140549
C113	mylar, .033mfd, 10%	140450	R131	16K, ½W, 5%	140546
C114	mylar, .033mfd, 10%	140450	R132	33K, ½W, 5%	137767
C131	mylar, 0.1mfd, 10%	140504	R133	1K, ½W, 5%	018044
C132	tantalum, 10mfd, 16V	041707	R137	100-ohm, ½W, 5%	137762
C133,C134	mylar, 0.1mfd, 10%	140504	R138,R139	6.8K, ½W, 5%	016501
C135	electrolytic, 47mfd, 35V	140826	R140	33K, ½W, 5%	137767
C136	tantalum, 1mfd, 35V	067538	R141	33K, ½W, 5%	137767
C137	tantalum, 10mfd, 16V	041707	R142	100-ohm, ½W, 5%	137762
C138	tantalum, 1mfd, 35V	067538	R143	33K, ½W, 5%	137767
C150	electrolytic, 220mfd, 35V	140827	R144	100-ohm, ½W, 5%	137762
C151	electrolytic, 500mfd, 6V	055483	R145	22K, ½W, 5%	028365
	(alternate value 470mfd, 6V)		R146	11K, ½W, 5%	140544
C152	electrolytic, 47mfd, 35V	140826	R147	100-ohm, ½W, 5%	137762
D18	DIODE, 1 amp, 100PIV	021154	R151	8.2K, ½W, 5%	131220
IC1, IC2	INTEGRATED CIRCUIT, TL075CN	140505	R152	1.8K, ½W, 5%	049676
			R153	100K, ½W, 5%	137765
			R154	1K, ½W, 5%	018044
Resistors					
R100	36K ½W, 5%	140548	Q5	PNP, 2N4425	033563
R101	75K, ½W, 5%	140550	Q6	PNP, TZ554	033589
R102	100K, ½W, 5%	137765		Circuit Board, Etched	140807
R103	27K, ½W, 5%	021535		Connectors	
R104	56K, ½W, 5%	137766	S10,S11,S12		
R105	33K, ½W, 5%	137767	S13,S14	Housing, Socket, 5CKT	106970
R106	43K, ½W, 5%	140549	(not shown)	Contact, Socket Insert, Female	108660
R107	16K, ½W, 5%	140546	S28	Contact, Female, PCB	023549
R108	24K, ½W, 5%	140547	P22	Contact, Male, PCB	023531
R109	47K, ½W, 5%	063677	P23	Contact, Male, PCB	023531
R110	100K, ½W, 5%	137765			