



○ DENOTES PC-30 EYELETS

WIRING VARIATIONS, INTERNATIONAL TRANSFORMER (OPTION)

VOLTAGE	POWER SWITCH	BR 303	8	10	11	12
100 VAC	1,2	11,13	12	-	-	10
120 VAC	1,2	10,12	13	-	-	11
200 VAC	1	11	12	13	2	10
* 220 VAC	1	10	12	13	2	11
240 VAC	1	10	13	12	2	11

\* EXAMPLE  
 \*\*R317 FOR 200, 220, 240 VAC ONLY

REVISED 7-9-74  
 1-20-76  
**SCHEMATIC DIAGRAM**  
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SCHEMATIC DIAGRAM COMPONENT VALUES

All resistors are 1/4 watt, 5% unless otherwise

									PART #
						R306	10 ohms		
							10% 5 watt		121105
						R307	600 ohms		
							10% 10 watt		120601
		PART #			PART #	R308	850 ohms		
			R209	100 ohms	119101		10% 10 watt		120851
R101	470 ohms	119471	R210	22,000 ohms	119223	R309	110 ohms		119111
R102	1,000 ohms	119102	R211	6,200 ohms		R310	270 ohms		119271
R103	120,000 ohms	119124		5% 1/2 watt film	133622	R311	360 ohms		119361
R104	10,000 ohms	119103	R212	220 ohms	119221	R312	7,500 ohms		119752
R105	470 ohms	119471	R213	130 ohms	119131	R313	7,500 ohms		119752
R106	470 ohms	119471	R214	150 ohms	119151	R314	15,000 ohms		119153
R107	18,000 ohms	119183	R215	100 ohms	119101	R315	12,000 ohms		119123
R108	3,900 ohms	119392	R216	22 ohms	119220	R316	1,000 ohms 1/2 watt		113102
R109	15,000 ohms	119153	R217	1,000 ohms	119102	R317	100,000 ohms 1/2 watt		102104
R110	10,000 ohms	119103	R218	2,200 ohms	119222	R318	3.3 ohms		103030
R111	100,000 ohms	119104	R219	1,000 ohms	119102				
R112	680 ohms	119681	R220	39 ohms	119390				
R113	100,000 ohms	119104	R221	39 ohms	119390	BR301	AC line breaker		
R114	100,000 ohms	119104	R222	2,400 ohms	119242		10A		342700
R115	10,000 ohms	119103	R223	2,400 ohms	119242	BR302	thermal sensor		
R116	10,000 ohms	119103	R224	10 ohms AB	119100		85°C 15A		342001
R117	5,100 ohms	119512	R225	100 ohms	119101	BR303	thermal sensor		
R118	10,000 ohms	119103	R226	100 ohms	119101		85°C 15A		342001
R119	100 ohms	119101	R227	10 ohms AB	119100	BR304	AC line breaker 5A		342701
R120	100 ohms	119101	R228	1,000 ohms					
R121	2,200 ohms	119222		5% 2 watt	110102				
R122	8,200 ohms	119822	R229	750 ohms					
R126	620 ohms	119621		5% 2 watt	110751	C101	4.7mfd 15v 20%		
R127	100 ohms	119101	R230	300 ohms			tantalum		282505
R128	150,000 ohms	119154		5% 1 watt	116301	C102	.01mfd 100v 20%		
R129	150,000 ohms	119154	R231	300 ohms			disc		234103
R130	1,000 ohms	119102		5% 1 watt	116301	C103	.01 mfd 100v 20%		
R131	7,500 ohms	119752	R232	750 ohms			disc		234103
R132	390,000 ohms	119394		5% 2 watt	110751	C104	12 mmfd disc		244120
R133	390,000 ohms	119394	R233	1,000 ohms		C105	10 mfd 15v		281106
R134	1,000 ohms	119102		5% 2 watt	110102	C106	.0082 mfd 100v 5%		
R135	7,500 ohms	119752	R235	47 ohms			mylar		264822
R136	3,300 ohms	119332		5% 1/2 watt AB	103470	C107	.0082 mfd 100v 5%		
R137	3,300 ohms	119332	R236	47 ohms			mylar		264822
R138	47,000 ohms	119473		5% 1/2 watt AB	103470	C108	.47 mfd 100v 10%		
R139	5,600 ohms	119562	R237	47 ohms			mylar		260474
R140	5,600 ohms	119562		5% 1/2 watt AB	103470	C109	.47 mfd 100v 10%		
R141	10,000 ohms	119103	R238	47 ohms			mylar		260474
R142	200 ohms			5% 1/2 watt AB	103470	C110	35 mfd 30v		
	5% 2 watt	110201	R244	6,800 ohms			non-polarized		283366
R143	200,000 ohms	119204		5% 1/2 watt	113682	C111	5 mfd 15v		283505
R144	100,000 ohms	119104	R245	39 ohms	119390	C112	5 mfd 15v		283505
R145	390,000 ohms	119394	R246	39 ohms	119390	C113	500 mfd 3v		281507
R146	2,200 ohms	119222				C114	50 mfd 10v		281506
R147	2,700 ohms	119272				C115	50 mfd 10v		281506
			R301	0.18 ohms		C116	.01 mfd 100v 20%		
				3% 10 watt	120180		disc		234103
R201	1,000 ohms	119102	R302	0.18 ohms		C117	.01 mfd 100v 20%		
R202	22,000 ohms	119223		3% 10 watt	120180		disc		234103
R203	33,000 ohms	119333	R304	1,000 ohms		C118	.47 mfd 100v 5%		260474
R204	33,000 ohms	119333		10% 5 watt	120107	C119	.47 mfd 100v 5%		260474
R205	4,700 ohms	119472	R305	10 ohms		C120	.47 mfd 100v 5%		260474
R206	2,200 ohms	119222		10% 10 watt (part		C121	.01 mfd 100v 20%		
R207	2,200 ohms	119222		of L301 assembly)	453001		disc		234103
R208	100,000 ohms	119104				C122	.01 mfd 100v 20%		
							disc		234103
						C123	.01 mfd 100v 20%		
							disc		234103
						C124	.01 mfd 100v 20%		
							disc		234103

PART #			PART #			PART #		
C125	200 mfd 3v	281207	D108	silicon diode		P201	1,000 ohms trimpot	190103
C126	470 mfd 12v	283507		1N4148	543148	P202	1,000 ohms trimpot	190103
C201	5 mfd 15v tantalum	282505	D109	silicon diode				
C202	.1mfd 100v 20%			1N4148	543148			
	disc	224104	D110	silicon diode		P301	100,000 ohms	
C203	.1mfd 100v 20%			1N4148	543148		1/2 watt linear	142104
	disc	224104	D111	silicon diode				
C204	50 mfd 10v			1N4148	543148			
	non-polarized	282506	D112	silicon diode 1A 200prv				
C205	180 mmf 100v 10%	224181		1N4003	544012	PL301	neon lamp	521021
C206	.47 mfd 100v 5%	260474	D201	silicon diode		PL302	neon lamp	521021
				1N4148	543148	PL303	#53 lamp	526053
C207	320 mfd 6v	281327	D202	silicon diode				
C208	47 mmfd 100v 10%			1N4148	543148			
	disc	224470	D203	silicon diode		Q101	transistor EN3962	562962
C209	.1 mfd 100v 20%			1N4148	543148	Q102	transistor SE4010	572010
	disc	224104	D204	silicon diode		Q104	thyristor 2N5061	574061
C210	.001 mfd 100v 10%			1N4148	543148	Q105	transistor FT4356	562356
	disc	240102	D205	zener diode		Q106	transistor 2N4889	562889
C211	82 mmfd 100v 10%			14v .4w 5%	540014			
	disc	224820	D206	silicon diode				
C212	.001 mfd 100v 10%			1N4148	543148	Q201	transistor 2N4889	562889
	disc	240102	D207	silicon diode		Q202	transistor 2N4889	562889
C213	200 mfd 15v	283207		1N4148	543148	Q203	transistor 2N4889	562889
C214	200 mfd 15v	283207	D208	silicon diode		Q204	transistor 2N3440	572440
C215	.001 mfd 100v 10%			1N4148	543148	Q205	transistor 2N3440	572440
	disc	240102	D209	silicon diode		Q206	transistor 2N3440	572440
C217	.001 mfd 100v 10%			1N4148	543148	Q207	transistor 2N5415	562415
	disc	240102	D301	silicon diode		Q208	transistor BC308B	567070
C218	180 mmfd 100v 10%	224181		1A 200prv	544012	Q209	transistor SE6020A	577021
C219	.022 mfd 100v 10%	264223	D302	silicon diode		Q210	transistor SE6020A	577021
C220	.022 mfd 100v 10%	264223		1A 200prv	544012	Q211	transistor BC308B	567070
			D304	zener diode		Q212	transistor TIP41C	577041
				13v lw 5%	540113	Q213	transistor TIP41C	577041
			D305	zener diode		Q214	transistor TIP42C	567042
				13v lw 5%	540113	Q215	transistor TIP42C	567042
C301	.1mfd 100v 20%							
	disc	224104	DB301	silicon diode bridge		Q301	transistor 2N5630	57U04
C302	500 mfd 15v	281508		25A	544504	Q302	transistor 2N5630	571104
C303	500 mfd 15v	281508				Q303	transistor 2N6030	561356
C304	10,000 mfd 80v	284109				Q304	transistor 2N6030	561356
C305	.1 mfd 100v 20%							
	disc	224104	F301	fuse 5A 3AG	342006			
C306	10,000 mfd 80v	284109	F302	fuse 6A 8AG	342025			
C307	.1mfd 100v 20%		F303	fuse 6A 8AG	342025	RY301	relay DPST	
	disc	224104					15A 48v coil	539248
C308	.1mfd 100v 20%							
	disc	224104	IC101	IC NE5558	587458			
C309	.01 mfd 1000v disc	228103	IC102	IC LM301AH	587709			
			IC103	IC LM301AH	587709	S101	switch 8PDT dual	338000
			L301	choke assembly				
D101	silicon diode			(wound on R305)	453001	S301	switch DPTT	
	1N4148	543148					rotary 15A	333241
D102	silicon diode					S302	switch DP5T rotary	333025
	1N4148	543148	M301	meter, dB, 3 1/2"	508028	S303	switch DP4T rotary	333020
D103	dual silicon diode							
	BZ102	546361						
D104	silicon diode		P101	470 ohms trimpot	140471			
	1N4148	543148				T301	power transformer	464026
D105	silicon diode					T302	power transformer,	
	1N4148	543148					international model	464030
D106	silicon diode							
	1N4148	543148						
D107	silicon diode							
	1N4148	543148						