

CHECK	REF DES	Part Description	Notes
	C1	15000uF 10V Electrolytic Capacitor	
	C2	4700uF 6.3V Electrolytic Capacitor	OMIT FOR 5V TUBES (300B) N.B. + SIDE TO GROUND SILK SCREEN CORRECT ORIENTATION SCHEMATIC INCORRECT ORIENTATION
	C3	4700uF 6.3V Electrolytic Capacitor	
	C4	35-47uF 450V Capacitor	Electrolytic or 375VAC or higher Motor Run Film
	C5	150uF Minimum 450V Capacitor	UPT2W101MHD Nichicon Aluminum Electrolytic and/or 375VAC or higher Parallel Motor Run Film
	C6	100uF 450V Electrolytic Capacitor	UPT2W101MHD Nichicon Aluminum Electrolytic
	C7	100uF 450V Electrolytic Capacitor	UPT2W101MHD Nichicon Aluminum Electrolytic
	C8	4700uF 6.3V Electrolytic Capacitor	
	C9	0.22uF 400V (or higher) Film Coupling Capacitor	AUDIENCE AURICAP
	C10	4700uF 6.3V Electrolytic Capacitor	
	C11	0.22uF 400V (or higher) Film Coupling Capacitor	AUDIENCE AURICAP
	D1	Dual Schottky rectifier	STPS30L30CT
	D2	FRED diode	ISL9R8120P2 Fairchild STEALTH Rectifiers
	D3	FRED diode	ISL9R8120P2 Fairchild STEALTH Rectifiers
	D4	1N5408 diode 1000V	
	D5	1N5408 diode 1000V	
	Q1	High Voltage Mosfet	(1) Fairchild FDPF5N50NZ (2) Toshiba 2SK3565(Q) (3) Toshiba 2SK3563(Q)
	Q2	High Voltage Mosfet	(1) Fairchild FDPF5N50NZ (2) Toshiba 2SK3565(Q) (3) Toshiba 2SK3563(Q)
ALL 1/4W RESISTORS METAL FILM EXCEPT AS NOTED			
	R1	510 ohm 1/4 W resistor	
	R2	510 ohm 1/4 W resistor	
	R3	2.2 ohm 3 W resistor	2.7 ohm with Hammond Transformer
	R4	150 ohm 5W Wirewound	OMIT FOR CHOKE
	R5	270 ohm 2 W resistor	
	R6	10 K ohm 5 W resistor	

	R7	100 K ohm 2 W resistor	
	R8	120 K ohm 1/4 W resistor	DOES NOT REQUIRE PRECISION RESISTOR SHOWN ON SCHEMATIC
	R9	1 K ohm trimmer potentiometer	Mouser 652-3309P-1-102 Bourns Trimmer Resistor
	R10	510 ohm 1/4 W resistor	
	R11	22 K ohm 2 W resistor	
	R12	100 K ohm trimmer potentiometer	Mouser 652-3309P-1-104 Bourns Trimmer Resistor
	R13	120 K ohm 2 W resistor	
	R14	36 K ohm 3 W resistor	
	R15	120 K ohm 1/4 W resistor	DOES NOT REQUIRE PRECISION RESISTOR SHOWN ON SCHEMATIC
	R16	332 ohm 1/4 W resistor 1%	
	R17	1 K ohm 1/4 W resistor	
	R18	10 ohm 1/4 W resistor 1%	
	R19	120 K ohm 1/4 W resistor	DOES NOT REQUIRE PRECISION RESISTOR SHOWN ON SCHEMATIC
	R20	1 K ohm trimmer potentiometer	Mouser 652-3309P-1-102 Bourns Trimmer Resistor
	R21	510 ohm 1/4 W resistor	
	R22	22 K ohm 2 W resistor	
	R23	100 K ohm trimmer potentiometer	Mouser 652-3309P-1-104 Bourns Trimmer Resistor
	R24	120 K ohm 2 W resistor	
	R25	36 K ohm 3 W resistor	
	R26	120 K ohm 1/4 W resistor	DOES NOT REQUIRE PRECISION RESISTOR SHOWN ON SCHEMATIC
	R27	332 ohm 1/4 W resistor 1%	
	R28	1 K ohm 1/4 W resistor	
	R29	10 ohm 1/4 W resistor 1%	
	R30	120 K ohm 2 W resistor	
	R31	1K to 4.7 K ohm 1/4 W resistor	NOT SHOWN ON SCHEMATIC Carbon Composition – Metal Film Subject to Oscillation
	R32	1K to 4.7 K ohm 1/4 W resistor	NOT SHOWN ON SCHEMATIC Carbon Composition – Metal Film Subject to Oscillation
	R33	100 ohm 1/4 W resistor	
	R34	100 ohm 1/4 W resistor	
	R35	255 ohm 1/4 W resistor 1%	OR PARALLEL 510 ohm 1%
	U1	5V Voltage Regulator	Sharp PQ5EV5

	U2	IXCP10M45S CCS IC	
	U3	IXCP10M45S CCS IC	
	V1	8 pin octal PCB socket	Tin/Solder Plate
	V2	9 pin miniature PCB socket	Tin/Solder Plate
	V3	9 pin miniature PCB socket	Tin/Solder Plate
	V4	4 pin Medium (UX4) socket	Tin/Solder Plate
	V5	4 pin Medium (UX4) socket	Tin/Solder Plate
	T1- T2- T3- GND2 C-5	Binding Posts –	Mouser 534-8730 Keystone MINI BINDING POST Essential for board external connections to facilitate disassembly/rework/test. Facilitates external motor run cap connection at C5. Can be permanently soldered after final assembly