

Circuit Symbol	Item	Value
C1	Capacitor	0.1Uf
C2	Capacitor	0.1Uf
C3	Capacitor	680Pf
C4	Capacitor	100Uf
C5	Capacitor	0.25Uf
C6	Capacitor	22Pf
C7	Capacitor	150Pf
C8	Capacitor	0.047Uf
C9	Capacitor	0.047Uf
C10	Capacitor	0.25Uf
C11	Capacitor	0.25Uf
C12	Capacitor	0.47Uf
C13	Capacitor	0.47Uf
C14	Capacitor	680Pf
C15	Capacitor	100Uf
C16	Capacitor	0.25Uf
C17	Capacitor	150Pf
C18	Capacitor	0.047Uf
C19	Capacitor	0.047Uf
C20	Capacitor	0.25Uf
C21	Capacitor	0.25Uf
C22	Capacitor	0.47Uf
C23	Capacitor	0.47Uf
C24	Capacitor	0.01Uf
C25	Capacitor	0.01Uf
C26	Capacitor	150Uf
C27	Capacitor	150Uf
C28	Capacitor	0.47Uf
C29A/B/C	Capacitor	80/35/15Uf
C30	Capacitor	10Uf
C31	Capacitor	22Pf
D1/SR1	Silicon Rectifier	1N2863
D2/SR2	Silicon Rectifier	1N2863
D3/SR3	Selenium Rectifier	
F1	Fuse	2A Slo Blo
F2	Fuse	
L5	Choke	30 Ohms
R1	Potentiometer	250K

R2	Potentiometer	250K
R3	Resistor	1M
R4	Resistor	22K
R5	Resistor	1.8K 5% Matched to 1%
R6	Resistor	3.3K
R7	Resistor	68 5% Matched to 1%
R8	Resistor	100K
R9	Resistor	2.2M
R10	Resistor	18K
R11	Resistor	27K 5%
R12	Resistor	30K 5%
R13	Resistor	2.2M
R14	Resistor	2.2M
R15	Resistor	220K
R16	Resistor	220K
R17	Resistor	4.7K
R18	Resistor	22K 5% Matched Pair 1 %
R19	Resistor	22K 5% Matched Pair 1 %
R20	Resistor	56K
R21	Resistor	100K
R22	Resistor	100K
R23	Resistor	56K
R24	Not Used	N/A
R25	Not Used	N/A
R26	Resistor	1.8K 5% Matched to 1%
R27	Resistor	3.3K
R28	Resistor	68 5% Matched to 1%
R29	Resistor	100K
R30	Resistor	2.2M
R31	Resistor	18K
R32	Resistor	27K 5%
R33	Resistor	30K 5%
R34	Resistor	2.2M
R35	Resistor	2.2M
R36	Resistor	220K
R37	Resistor	220K
R38	Resistor	4.7K
R39	Resistor	22K 5% Matched Pair 1 %
R40	Resistor	22K 5% Matched Pair 1 %
R41	Resistor	56K
R42	Resistor	100K
R43	Resistor	100K
R44	Resistor	56K
R45	Thermistor	25<

R46	Resistor	30K 5%
R47	Resistor	33k
R48	Resistor	100K
R49	Not Used	N/A
R50	Resistor	82K
R51	Resistor	22K 5%
R52	Resistor	470
R53	Resistor	470
R54	Resistor	470
R55	Resistor	470
R56	Resistor	68
R57	Resistor	68
R58	Resistor	68
R59	Resistor	68
S1		
T1	Output Transformer	Unity Coupled OT
T2	Output Transformer	Unity Coupled OT
T3	Power Transformer	M-221
V1	12AX7/ECC83	
V2	12AU7/ECC82	
V3	12BH7	
V4	12AU7/ECC82	
V5	12BH7	
V6	7591/7591A/6GM5	
V7	7591/7591A/6GM6	
V8	7591/7591A/6GM7	
V9	7591/7591A/6GM8	

Rating	Type(s)	Original MFG/Name
200V	Paper Foil Oil	Bumble Bee
200V	Paper Foil Oil	Bumble Bee
500V	Ceramic Disc	
3V	Electrolytic Axial	
400V	Silver Mica	Dog Bone
500V	Ceramic Disc	
500V	Ceramic Disc	
600V	Paper Foil Oil	Black Beauty 160P
600V	Paper Foil Oil	Black Beauty 160P
600V	Silver Mica	Dog Bone
600V	Silver Mica	Dog Bone
100V	Silver Mica	Dog Bone
100V	Silver Mica	Dog Bone
500V	Ceramic Disc	
3V	Electrolytic Axial	
400V	Silver Mica	Dog Bone
500V	Ceramic Disc	
600V	Paper Foil Oil	Black Beauty 160P
600V	Paper Foil Oil	Black Beauty 160P
600V	Silver Mica	Dog Bone
600V	Silver Mica	Dog Bone
100V	Silver Mica	Dog Bone
100V	Silver Mica	Dog Bone
600V	Paper Foil Oil	Bumble Bee
600V	Paper Foil Oil	Bumble Bee
250V	Electrolytic Twist Lock	CDE
250V	Electrolytic Twist Lock	CDE
200V	Silver Mica	Dog Bone
500/500/450V	Electrolytic Twist Lock	CDE
50V	Electrolytic Axial	CDE
500V	Ceramic Disc	
500V 0.75A	Top Hat	RCA
500V 0.75A	Top Hat	RCA
250V	3AG	Bussman
125V	3AG	
200ma		McIntosh L126-103A
1/2W	Wire Wound	

1/2W	Wire Wound	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
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1/2W	Carbon Composition	
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1/2W	Carbon Composition	
1W	Carbon Composition	
1W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
N/A	N/A	
N/A	N/A	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1W	Carbon Composition	
1/2W	Carbon Composition	
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1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1W	Carbon Composition	
1W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
2A	Metal Oxide	CL 80

1/2W	Carbon Composition	
1/2W	Carbon Composition	
1W	Carbon Composition	
N/A	N/A	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	
1/2W	Carbon Composition	7591 Screen Supply
1/2W	Carbon Composition	7591 Screen Supply
1/2W	Carbon Composition	7591 Screen Supply
1/2W	Carbon Composition	7591 Screen Supply
	M-220A	
	M-220B	
	M-221	
	Twin Triode Tube	
	Twin Triode Tube	
	Twin Triode Tube	
	Twin Triode Tube	
	Twin Triode Tube	
	Power Pentode Tube	
	Power Pentode Tube	
	Power Pentode Tube	
	Power Pentode Tube	

Notes	To Replace?
Amp Input Cap	Yes
Amp Input Cap	Yes
HF Stability	<b>Yes</b>
12AX7 Cathode Bypass	Yes
HF Stability	<b>Yes</b>
HF Stability	<b>Yes</b>
Driver Coupling Cap	Yes
Driver Coupling Cap	Yes
	<b>Yes</b>
12AX7 Cathode Bypass	Yes
HF Stability	<b>Yes</b>
Driver Coupling Cap	Yes
Driver Coupling Cap	Yes
Power Supply Noise Suppression	Yes
Power Supply Noise Suppression	Yes
Power Supply Voltage Doubler	Yes
Power Supply Voltage Doubler	Yes
Power Supply Filter Cap	Yes
Bias Supply	Yes
HF Stability	<b>Yes</b>
Power Supply Rectifier	Yes
Power Supply Rectifier	Yes
Bias Supply Rectifier	Yes





	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

On Hand?	To Order?	On Order?
.1Uf SANGAMO Paper Foil Oil	No	No
.1Uf SANGAMO Paper Foil Oil	No	No
100Uf 6.3V NICHICON	No	No
0.047 Uf 630V VISHAY Film	No	No
0.047 Uf 630V VISHAY Film	No	No
100Uf 6.3V NICHICON	No	No
0.047 Uf 630V VISHAY Film		
0.047 Uf 630V VISHAY Film		
No	Yes	Yes
No	Yes	Yes
250Uf 250v Authenticap	No	No
250Uf 250v Authenticap	No	No
C-EC80-40-30-20 525/525/525/525V	No	No
No	No	No
1N4007	No	No
1N4007	No	No
1N4007	No	No

22K 5% CC	No	No
	Yes	Yes
	Yes	Yes
22K 5% CC	No	No
	Yes	Yes
	Yes	Yes
No	Yes	Yes

No	Yes	Yes
No	Yes	Yes
No	Yes	Yes
No	Yes	Yes
No	Yes	Yes
Yes	No	No
Yes	No	No
Yes	No	No
Yes	No	No
Yes	No	No
Yes	No	No
Yes	No	No
Yes	No	No
Yes	No	No
Yes	No	No













