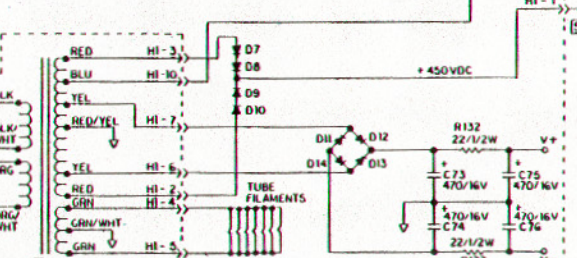
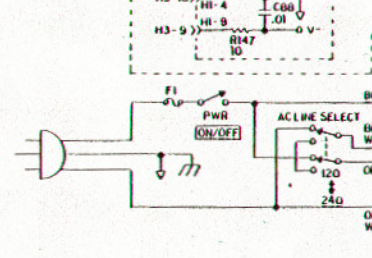


- UNLESS OTHERWISE NOTED:
- ALL CAPACITORS IN MICROFARADS
  - ALL RESISTORS IN OHMS, 1/AW
  - Q1 THROUGH Q6 ARE J174
  - V1, V2, V3 ARE 12AX7A
  - V4, V5, V6, V7 ARE 6L6CC
  - A1, A2, A4 AND A5 ARE 4558 TYPES
  - A3 IS 5532 TYPE
  - A6 IS 4049 TYPE
  - FOR GOWATT MODEL OLEETE V4 V7, R109, R112, R113 RI16
  - FOR GOWATT MODEL ONLY: T1 POWER TRANSFORMER IS P150 T2 OUTPUT TRANSFORMER IS 10C1016
  - D6, D7, D8, D9 DIO ARE CR100 D11, D12, D13 D14 ARE IN4003
  - SELECT R127 FOR IDLE CURRENT OF 100mA (50mA FOR X-60B)
  - CAUTION! HIGH VOLTAGE IS USED IN THIS UNIT

MODEL NO. PWR	F (Hz)	X	RA(K)	RB(K)	RC(K)	RD(K)	CA(Ω)	CB(X)	OPAMP
3K	75	24K	24K	47K	5.6K	.0022	.0022	A4(A)	
1.5K	150	5.6K	5.6K	12K	5.6K	.022	.022	A3(A)	
500	500	15K	15K	33K	5.6K	.022	.022	A3(B)	
150	15	33K	33K	7.5K	5.6K	.22	.22	A4(B)	
75	3	9.1K	9.1K	10K	4.7K	.22	.22	A4(A)	

MODEL NO. PWR	F (Hz)	X	RA(K)	RB(K)	RC(K)	RD(K)	CA(X)	CB(X)	OPAMP
75	75	9.1K	9.1K	10K	4.7K	.22	.22	A2(A)	
150	150	3.3K	3.3K	7.5K	5.6K	.22	.22	A3(A)	
500	500	15K	15K	33K	5.6K	.022	.022	A3(B)	
1.5K	15	5.6K	5.6K	12K	5.6K	.022	.022	A4(B)	
3K	3	24K	24K	47K	5.6K	.0022	.0022	A4(A)	



SYMBOL	FIRST	LAST
A	A1	A6
C	C1	C38
C	C5	C95
D	D1	D14
P	P1	P8
Q	Q1	Q10
R	R1	R61
R	R15	R161
V	V1	V7

**CARVIN** 1555 INDUSTRIAL AVENUE  
FREMONT, CA 94535  
818 747-1710

**X-AMP**  
MODELS: X-60B, X-100 B  
XV-112, XV-212  
(PCB 1010 C)

DRAWN: *Shawn Murphy* DATE: 23 MAY 04  
APPROVED: *John H. Murphy* DATE: 23 MAY 04  
DRAWING NUMBER: 2028 B