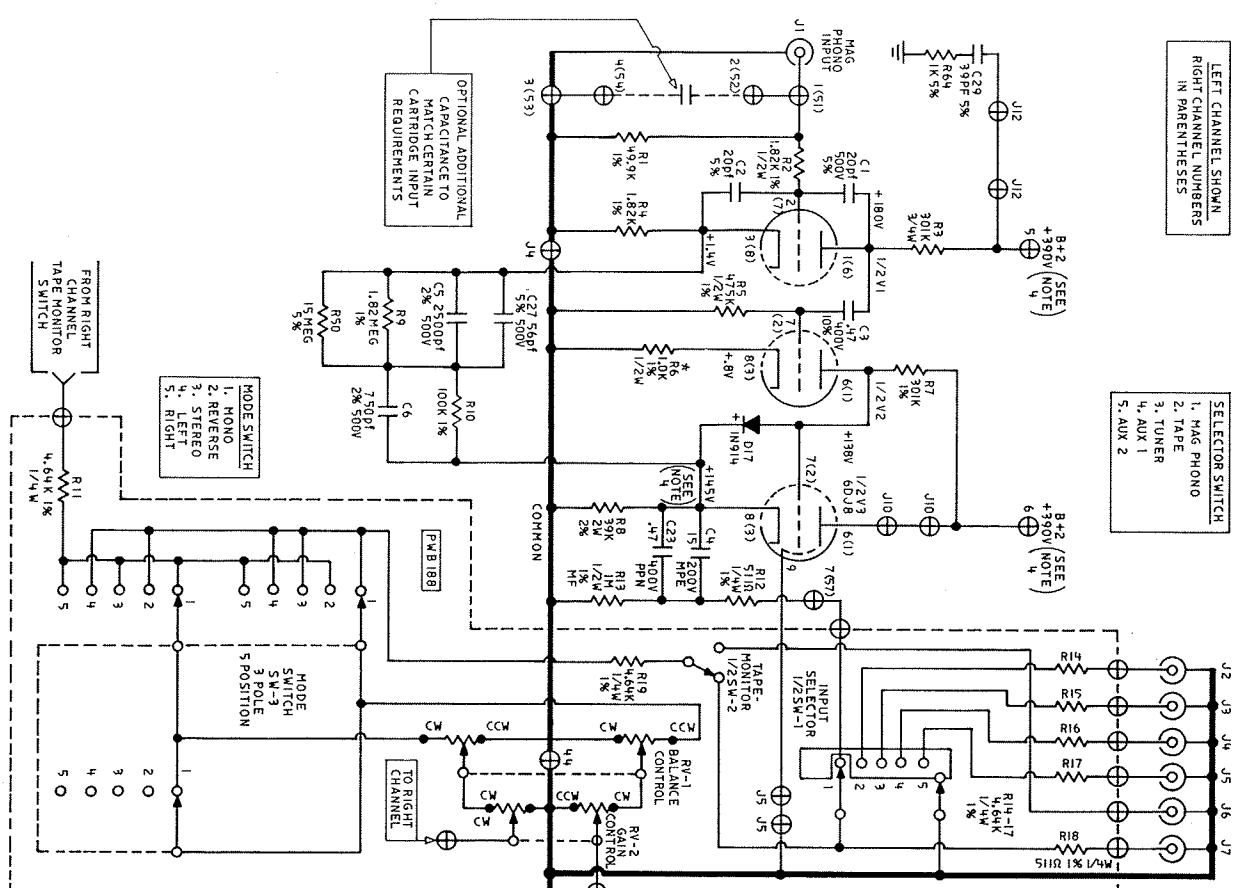
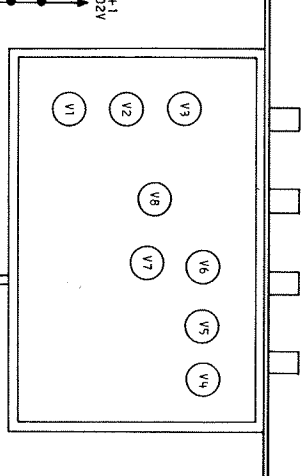


LEFT CHANNEL SHOWN
RIGHT CHANNEL NUMBERS
IN PARENTHESES

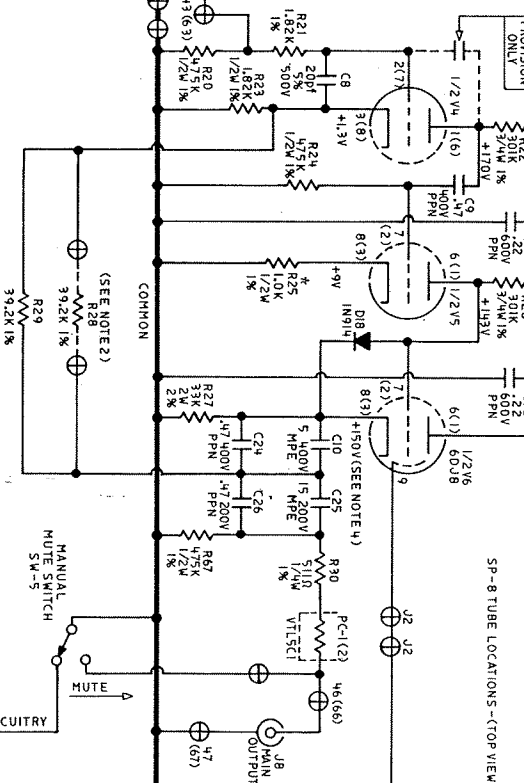
SELECTOR SWITCH
1. MAG PHONO
2. TAPE
3. TUNER
4. AUX 1
5. AUX 2



J2 TAPE
J3 TUNER
J4 AUX 1
J5 AUX 2
J6 MONITOR INPUT
J7 TAPE OUTPUT



SP-8 TUBE LOCATIONS - (TOP VIEW)



NOTE:
1. TUBES: V1,2,4,5, 6D8 (SEE NOTE 2) SELECTED LOW NOISE
V3,6 6D8 DUAL TRIODE
FOR BEST SONIC RESULTS, USE ONLY TUBES
SUPPLIED BY AUDIO RESEARCH CORPORATION.
2. ADD R28 39.2K TO CUT GAIN 6dB.
3. *EFFECTIVE OCT. 81 SONIC IMPROVEMENT: R6, 25.1K WAS 1.5K.
4. MEASURE DC VOLTAGES THRU 1KΩ ISOLATION RESISTOR
TO MINIMIZE CAPACITIVE LOADING EFFECTS.

TO TIMER CIRCUITRY

PROPRIETARY NOTICE
THE INFORMATION CONTAINED HEREIN IS
CONSIDERED PROPRIETARY BY AUDIO RESEARCH
AND IS FURNISHED ON A CONFIDENTIAL
BASIS FOR IDENTIFICATION PURPOSES ONLY.

AUDIO RESEARCH CORPORATION			
MINNEAPOLIS, MINNESOTA			
TOLERANCES	DATE	SCALE	DESIGNED BY
DECIMAL			
FRACTIONAL			
DATE	TITLE	DRAWN BY	CHECKED BY
7-1-81	SP-8 PREAMPLIFIER & SENSORS		
910079-10 A			

TO: BUREAU OF RECORDS (PLEASE PRINT NAME)			
AUDIO RESEARCH CORPORATION MINNEAPOLIS, MINNESOTA			
ORIGINAL	DATE	APPROVED BY	<i>JE</i>
1	PERSONAL	TITLE	SCHEMATIC SP-8 POWER SUPPLY
2	ADMIN.	DATE	7-1-81
		STANDARD NUMBER	910078-10 A

SP-8 PARTS LIST

COMPONENT	QUAN.	DESCRIPTION	VALUE	RATING	TOL.	PART NO.
V1,2,4,5	4	EC683AR				32001300
V3,6	2	6DJB				32001100
V7	1	12BH7A				32001200
V8	1	12AT7				32000900
D1-4	4	1N4006	1A	800V		30502200
D5-8,12,19	6	1M4005	1A	600V		30500400
D9,10,11,14,16	7	1N914		100V		30500900
20,21						
ZD1-8	8	1N4756A Zener	47V	1W		30503200
ZD10,14	2	1N5359A Zener	24V	5W		30503500
ZD11	1	1M3290Z Zener Ref.	6.9V			31000700
ZD12	1	1M4740A Zener	10V	1W		30500300
ZD15,16	2	1N5374A Zener	75V	5W		30502900
ZD17	1	Z20 Zener	20V	1W		30503700
LED1,2	2	LED Green				34300100
Q2,3,4	3	2N5088 Trans	NPN			30003100
Q5	1	2N5087 Trans	NPN			30003000
Q6	1	D40K1 Trans	Dar-1 NPN			30005200
Q7	1	T1P41 Trans				30005000
Q12, 13	4	2N5462 FET	P-Chan			30005900
RV1	1	Balance Control	100K	LinTaper	10%	45100525
RV2	1	Gain Control	100K	LogTaper	10%	45100528
VR1	1	MC7824CK	24V	1A		31001200
U1,2	2	TL071CP Op Amp				31001900
U3	1	LM555CN Timer				31000800
PC1,2	2	VLT55C1 Photocoupler				34400100
R1	2	Metal Film	49.9K	1/2W	1%	42999403
R2	2	Metal Film	2.37K	1/4W	1%	42237302
R3,7,22,26	8	Metal Film	1.82K	1/2W	1%	42182303
R4,23	4	Wirewound	300K	0.2W	1%	43300501
R5,20,24,29	8	Wirewound	1.8K	1W	1%	43182300
R6,25	2	Metal Film	475K	1/2	1%	42475503
R8	4	Wirewound	1.5K	2W	1%	43150302
R9,47,59,63	5	Metal Film	40K	5W	3%	43400400
R10,60	3	Metal Film	1.82Meg	1/2W	1%	42182603
R11,14-17,19	10	Metal Film	100K	1/2W	1%	42100503
R12,18,62,85	7	Metal Film	4.64K	1/4W	1%	42464302
R13	2	Metal Film	511	1/4W	1%	42511202
R21	2	Metal Film	1Meg	1/2W	1%	42100603
R27	2	Wirewound	1.82K	1/2W	1%	42182303
R28	2	Metal Film	2.70K	2W	1%	43270301
R31,32	2	Carbon	6.98K	1/2W	1%	42698303
R33,35-38	5	Carbon	270K	2W	10%	40270505
R39	1	Carbon	100	1/2W	10%	40100203
R40	1	Carbon	150K	1/2W	5%	41150503
R41	1	Carbon	270K	1W	5%	41270504
R42,44	2	Carbon	100K	1/4W	5%	41100502
R43	1	Wirewound	220K	1/4W	5%	41220502
R46	1	Metal Film	10	5W	5%	43100104
R48	1	Carbon	4.99K	1/2W	1%	42499303
R49	1	Carbon	470K	1/4W	5%	41470502
R50	2	Carbon	27K	1/4W	5%	41270402
R51	1	Metal Film	15Meg	1/2W	5%	41150703
R52	1	Metal Film	332K	1/2W	1%	42332503
R53-55	3	Carbon	348K	1/2W	1%	42348503
			10K	1/4W	5%	41100402

SP-8 PARTS LIST

COMPONENT	QUAN.	DESCRIPTION	VALUE	RATING	TOL.	PART NO.
R56	1	Wirewound (Fil. Film)	300	2W	5%	43300200
R57,58	2	Carbon	1K	1W	5%	41100304
R61	1	Wirewound	100K	7W	5%	43100500
R65	1	Carbon	2.2Meg	1/4W	5%	41220602
R66	1	Metal Film	150K	2W	2%	46150500
R67	1	Wirewound	1.0	2W	5%	43100002
R68	1	Metal Film	12-1K	1/2W	1%	42121403
R70,71,86,87	6	Metal Film	1K	1/4W	1%	42100302
R72,73,88,89	6	Metal Film	1K	1/2W	1%	42100302
R83	2	Wirewound	33K	5W	1%	43330400
C1	2	Polystyrene	56PF	630V	2.5%	53560102
C2,8	4	Polystyrene	20PF	630V	5%	53200101
C3,18,28	4	Polystyrene	20PF	630V	5%	53200101
C4,10	4	Polystyrene	2uF	450V	10%	53200602
C5	2	Polystyrene	10uF	250V	10%	53100700
C6	2	Polystyrene	2200PF	160V	2.5%	53220202
C7,20,21,23	9	Polystyrene	750PF	160V	2.5%	53150200
C9	2	Polystyrene	.22uF	100V	10%	53220506
C11	1	Polystyrene	.47uF	450V	10%	53470509
C12,35	2	Electrolytic	.01uF	160V	10%	53100403
C13	1	Polystyrene	1000uF	40V		50100904
C14,15	2	Electrolytic	.0027uF	200V	10%	53270301
C16	1	Electrolytic	100uF	450V		50100802
C17,31,40-43,45	12	Polystyrene	.015uF	150V	5%	53150404
C22	1	Tantalum	10uF	150V	10%	51130700
C27	2	Polystyrene	33uF	10V	2.5%	53330200
C34	1	Polystyrene	1000PF	630V	5%	53100301
F1	1	Fuse, S10-B10	0.6A	250V		34500220
T1	1	Transformer	0.3A	250V		34500120
OT1-4	4	Transformer		120V		60000402
SW1	1	AC Receptacle		100V		60000403
SW2	1	Input Selector Sw.		240V		23201300
SW3	1	Tape Monitor Sw.				24000100
SW5	1	Mode Switch	2Pole	Gold		24100400
SW6	1	Mute-Operate Sw.	3Pole	Sposition		24000700
SW8	1	On-Off Switch	DPDT	Gold		24100900
RV1	1	Receptacle Sw.	DPDT	Silver		24100700
J1-J16	16	Relay 24V	SPST	N.O.		24100600
		Phono Jack				23201000

NOTE: Resistor values are in "ohms" except "K" = x 1,000; "Meg" = x 1,000,000