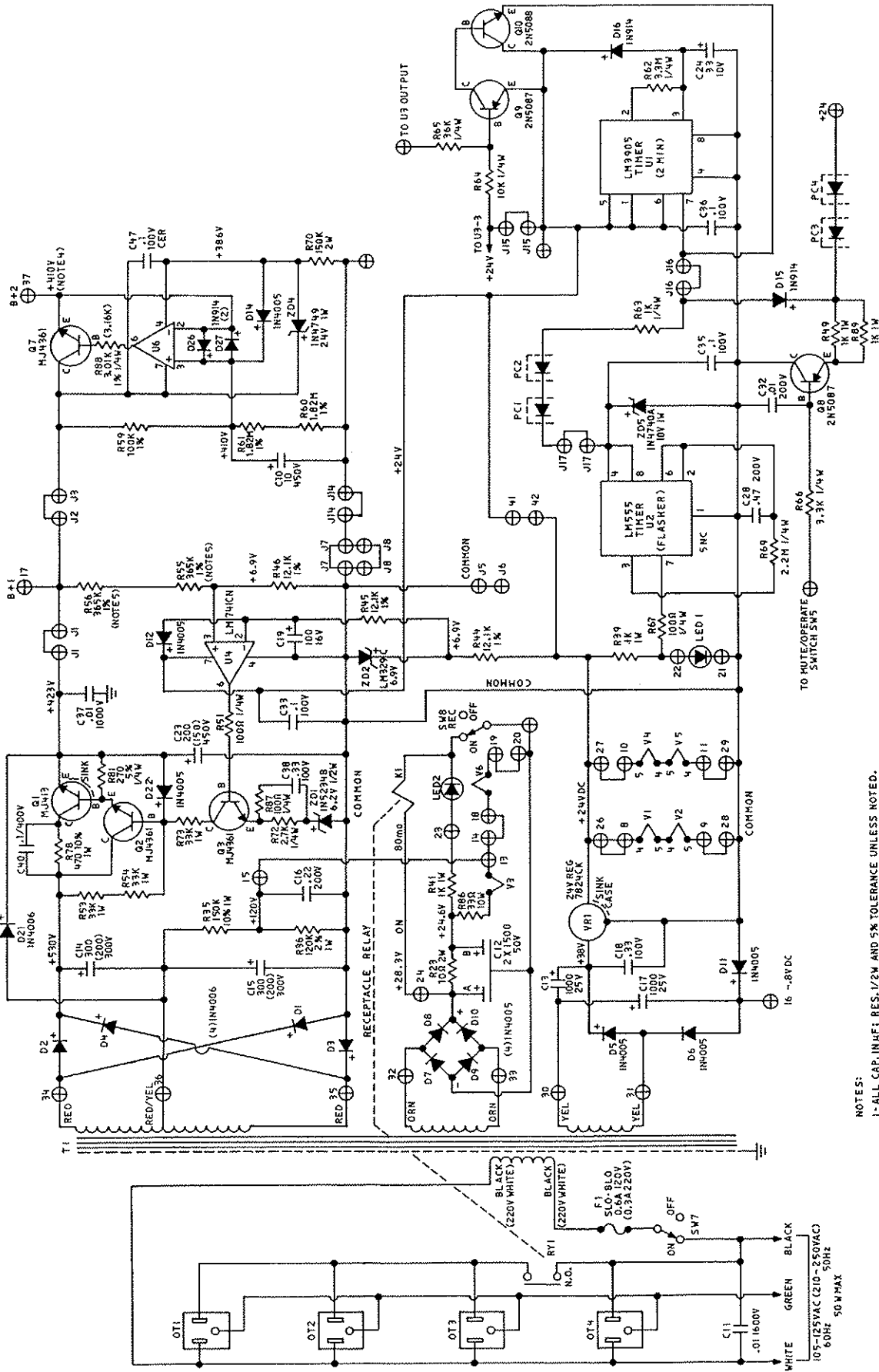


MODEL SP-6C PREAMPLIFIER
SCHEMATIC & PARTS LIST

7/1/81

audio research corporation

6801 SHINGLE CREEK PARKWAY
MINNEAPOLIS, MINNESOTA 55430



- NOTES:
- 1- ALL CAP. IN 471 RES. 1/2W AND 5% TOLERANCE UNLESS NOTED.
 - 2- USE CAUTION WHEN SERVICING HIGH VOLTAGE COMPONENTS. CONTACT WITH STORED ENERGY EVEN WITH POWER OFF COULD BE LETHAL.
 - 3- ALL VOLTAGES AT 120VAC 60Hz LINE.
 - 4- MEASURE DC VOLTAGES THRU 1KΩ ISOLATION RESISTOR TO MINIMIZE CAPACITIVE LOADING EFFECTS.
 - 5- R55 OR R56 MAY BE 348K FOR PROPER B+ WITH SOME ZD2.

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 FACTORY AS SHOWN	DESIGN	SCALE	DATE
1	1	1	7-1-81
2	2	2	7-1-81
3	3	3	7-1-81
4	4	4	7-1-81
5	5	5	7-1-81
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9	9	9	7-1-81
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99	99	99	7-1-81
100	100	100	7-1-81

SCHEMATIC
SP-6C POWER SUPPLY & TIMERS
910076-10 A

SP-6C PARTS LIST

SP-6C PARTS LIST

COMPONENT	QUAN.	DESCRIPTION	VALUE	RATING	TOL.	ARC PART NO.
V1,2,4,5	4	ECC83/12AX7A				32000700
V3,6	2	60J8				32001100
D1-4,21	5	1N4006	800V			30502200
D5-12,14,22	10	1N4005	600V			30500400
D15-20,24,25	12	1N914	100V			30500900
ZD1	1	1N52348 Zener	6.2V	1/2W		30502100
ZD2	1	LM329CZ Ref.	6.9V			31000700
ZD4	1	1N4749 Zener	24V	1W		30502500
ZD5	1	1N4740A Zener	10V	1W		30500300
LED1,2	2	LED Green				34300100
Q1	1	MJ413 Transistor				30003601
Q2,7	2	MJ4361 Transistor				30004400
Q3	1	MJ4361 Transistor				30004401
Q8,9	2	2N5087 Transistor				30003000
Q10	1	2N5088 Transistor				30003100
RV1	1	Balance Control	100K	10%		45100525
RV2	1	Gain Control	100K	10%		45100523
VR1	1	MC7824CK Voltage Reg.	24V	1A		31001200
U1	1	LM3905N IC Timer				31000900
U2	1	LM555CN IC Timer				31000800
U3	1	LM339N IC QuadComparator				31001000
U4,6	2	LM741CN IC Op Amp				31000400
PC1-4	4	VTL5C1 Photo Coupler				34400100
TP1-4	4	Trim Pot.	20K	10%		45200412
R1	2	Metal Film	49.9K	1/2W	1%	42499403
R2,21,23	4	Metal Film	1.82K	1/2W	1%	42182303
R3	2	Wirewound	300K	2/10W	1%	43300501
R4	2	Metal Film	2.21K	1/2W	1%	42221303
R5,20,24,29,37	10	Metal Film	475K	1/2W	1%	42475503
R6,25	4	Metal Film	1.2K	1/2W	2%	46120301
R7,22,26	6	Metal Film	301K	3/4W	1%	42301504
R8	2	Metal Film	39K	2W	2%	46390401
R9,60,61	4	Metal Film	1.82Meg	1/2W	1%	42182603
R10,59	3	Metal Film	100K	1/2W	1%	42100503
R11,14-17,19	10	Metal Film	4.64K	1/4W	1%	42464302
R12,18,85	6	Metal Film	511Ω	1/4W	1%	42511202
R13	2	Metal Film	1.0Meg	1/2W	1%	42100603
R27	2	Metal Film	33K	2W	2%	46330401
R30,32	4	Metal Film	1K	1/2W	1%	42100303
R33	1	Carbon	10Ω	2W	5%	41100105
R35	1	Carbon	150K	1W	10%	40150504
R36	1	Metal Film	120K	1W	2%	46120501
R38	1	Carbon	47Ω	1/4W	5%	41470402
R39,41,49,89	4	Carbon	1K	1W	5%	41100304
R40	1	Carbon	15K	1/4W	5%	41150402
R42	1	Carbon	180Ω	1/4W	5%	41180202
R43	1	Carbon	1.8K	1/4W	5%	41180302
R44-46	3	Metal Film	12.1K	1/2W	1%	42121403
R50	2	Carbon	15Meg	1/2W	5%	41150703
R51,67,87	3	Carbon	100Ω	1/4W	5%	41100202
R53,54,73	3	Carbon	33K	1W	5%	41330404
R55,56	2	Metal Film	365K	1/2W	1%	42365503
R62	1	Carbon	3.3Meg	1/4W	5%	41330602