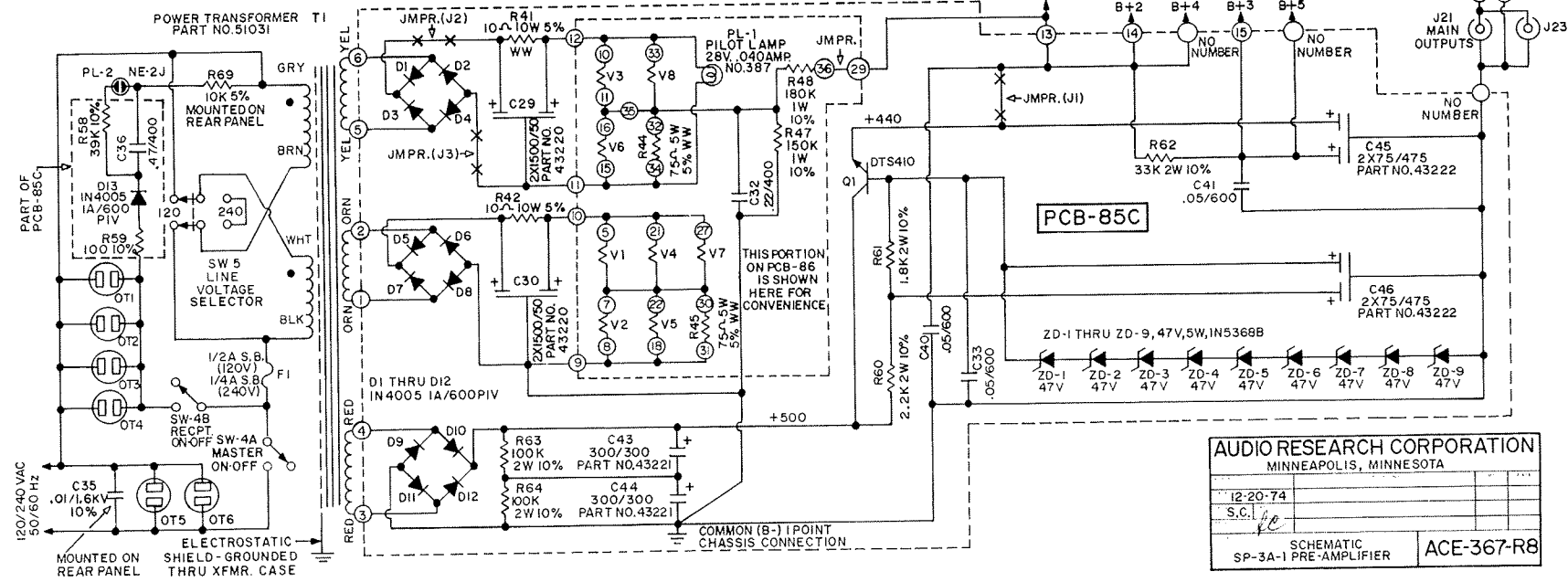


ALL RESISTORS 1/2 W EXCEPT AS NOTED.



## SP-3A-1 PARTS LIST

Schematic Reference	Part Number	Description			
<b>RESISTORS</b>					
R1	41809	Composition	51K	5%	½W
R2, 16, 17, 65, 66, 69	41800	Composition	10K	5%	½W
R3, 6, 21, 25, 36	42200	Metal Film	2.21K	1%	½W
R4, 8, 22, 26, 35, 68	42213	Metal Film	301K	1%	½W
R5, 18, 23, 31	41812	Composition	470K	5%	½W
R7	41805	Composition	2.2M	5%	½W
R9, 10, 27, 38	42207	Metal Film	100K	1%	½W
R11	41405	Composition	2.2M	10%	½W
R12, 15, 29	41821	Composition	470 Ohm	5%	½W
R19	41814	Composition	1.8K	5%	½W
R30	41808	Composition	22K	5%	½W
R33, 37	42205	Metal Film	49.9K	1%	½W
R34	41807	Composition	100K	5%	½W
R41, 42	42005	Wire Wound	10 Ohm	5%	10W
R44, 45	42019	Wire Wound	75 Ohm	5%	5W
R47	41215	Composition	150K	10%	1W
R48	41208	Composition	180K	10%	1W
R58	41421	Composition	39K	10%	½W
R59	41415	Composition	100 Ohm	10%	½W
R60	41016	Composition	2.2K	10%	2W
R61	41013	Composition	1.8K	10%	2W
R62	41015	Composition	33K	10%	2W
R63, 64	41006	Composition	100K	10%	2W
R67	42202	Metal Film	4.99K	1%	½W

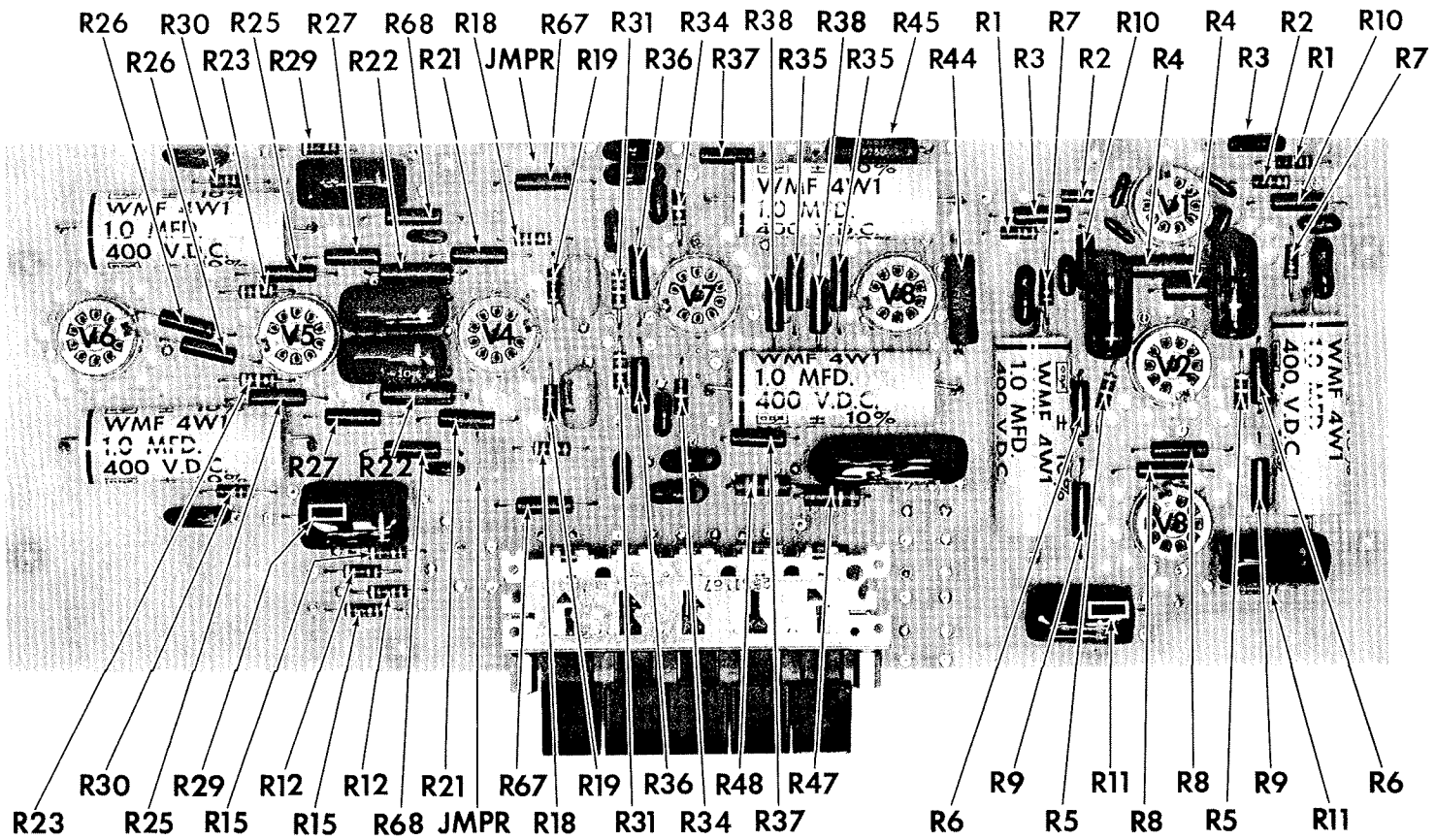
Numbers not used: R13, 14, 20, 24, 28, 32, 39, 40, 43, 46, 49, 50, 51, 52, 53, 54, 55, 56, 57

## CAPACITORS

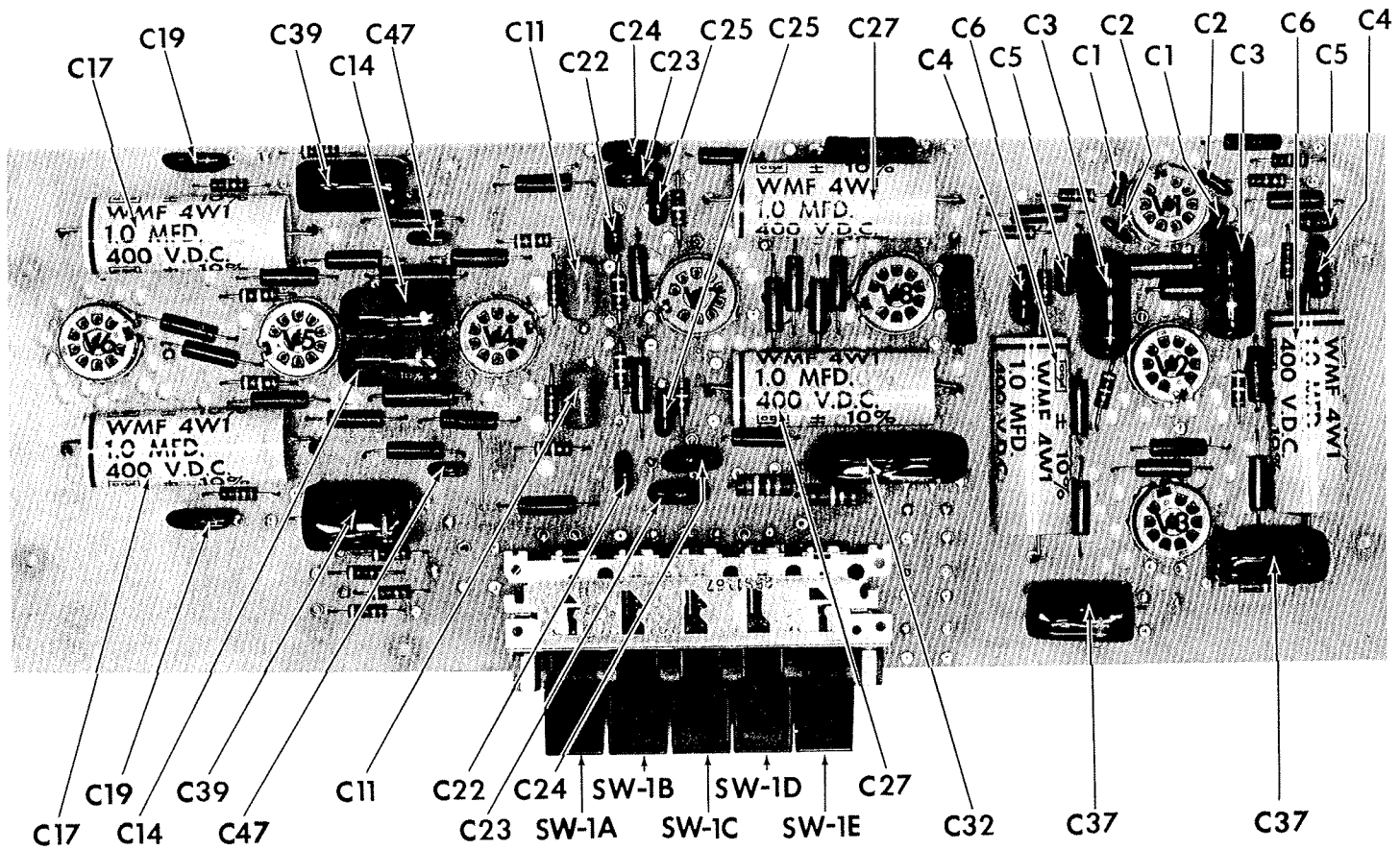
C1, 2	43411	Silver Mica	39pf	500V	5%
C3, 14	43001	Mylar	0.1 MFD	400V	10%
C4	43403	Silver Mica	3000pf	500V	2%
C5	43401	Silver Mica	750pf	300V	2%
C6, 17, 27	43018	Mylar	1.0 MFD	400V	20%
C11	43006	Mylar	0.22 MFD	75V	10%
C19	43017	Mylar	.0047 MFD	100V	10%
C20	43412	Silver Mica	100pf	500V	5%
C22, 25	43406	Silver Mica	500pf	500V	2%
C23, 24 (matched pair)	43023	Mylar	.01 MFD	100V	10%
C29, 30	43220	Electrolytic	2 x 1500 MFD	50V	
C32	43002	Mylar	0.22 MFD	400V	10%
C33, 40, 41	43013	Mylar	.05 MFD	600V	10%
C35	43028	Mylar	.01 MFD	1600V	10%
C36	43029	Mylar	0.47 MFD	400V	10%
C37, 39	43004	Mylar	1.0 MFD	100V	10%
C43, 44	43221	Electrolytic	300 MFD	300V	
C45, 46	43222	Electrolytic	2 x 75 MFD	475V	
C47	43410	Silver Mica	5pf	500V	10%

Numbers not used: C7, 8, 9, 10, 12, 13, 15, 16, 18, 21, 26, 28, 31, 34, 38, 42

Schematic Reference	Part Number	Description
<b>DIODES</b>		
D1 thru D13	33006	1N4005
ZD-1 thru ZD-9	33003	1N5368B
		1A/600PIV
		47V
		5W
<b>TUBES</b>		
V1 thru V8	32003	ECC83/12AX7A
		Note: V1 and V4 should be premium quality tubes such as Mullard, Telefunken or Amperex
<b>POTENTIOMETERS</b>		
RV1	45016	250K Special Taper (dual section)
RV2	45015	500K Logarithmic Taper (dual section)
RV3, 4, 5	45017	500K Linear Taper (dual section)
<b>SWITCHES</b>		
SW1	63016	5 Station Push Button
SW2	63013	5 Position Input Selector
SW3	63009	5 Position Mode Selector
SW4	63017	2 Station Push Button
SW5	63018	Slide Switch (Line Voltage)
<b>TRANSISTOR</b>		
Q1	35004	DTS-410 (Delco)
<b>FUSE</b>		
F1	34011	For 120V, 1/2 amp. MDL or 3AG Slo-Blo
	34014	For 240V, 1/4 amp. MDL or 3AG Slo-Blo
<b>TRANSFORMER</b>		
T1	51031	120/240V 50/60 Hz Primary
<b>PILOT LIGHTS</b>		
PL-1 Assy.	34008	Lamp assembly (without lamp)
	34013	Lens, Green
	34009	Lamp for PL-1; 28V., .040 amp., #387
PL-2 Assy.	34008	Lamp assembly (without lamp)
	34015	Lens, Red
	34012	Lamp for PL-2; Ne-2J Neon



PCB-86 LAYOUT (Resistors)



PCB-86 LAYOUT (Capacitors)