

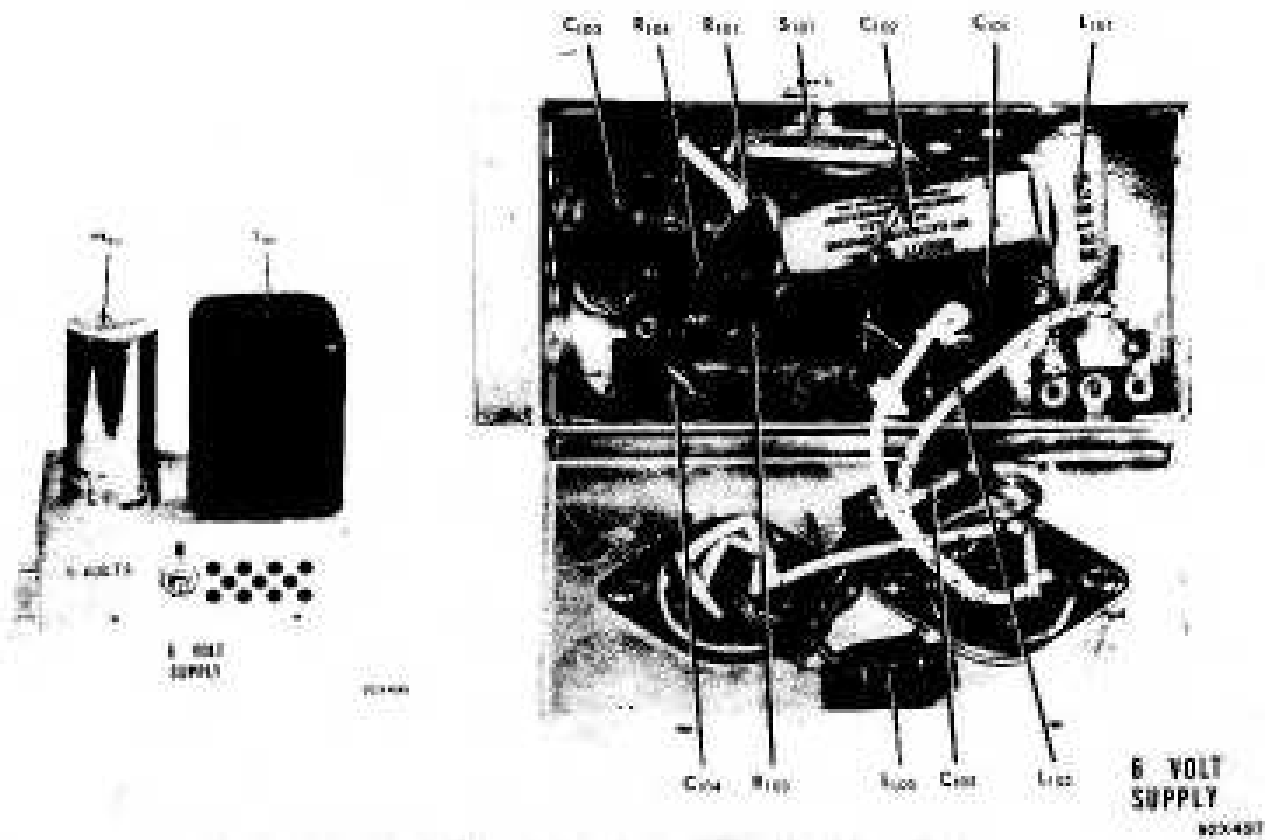


FIG. 6. Component location, 6-volt adapter unit. (927450 & 927497)

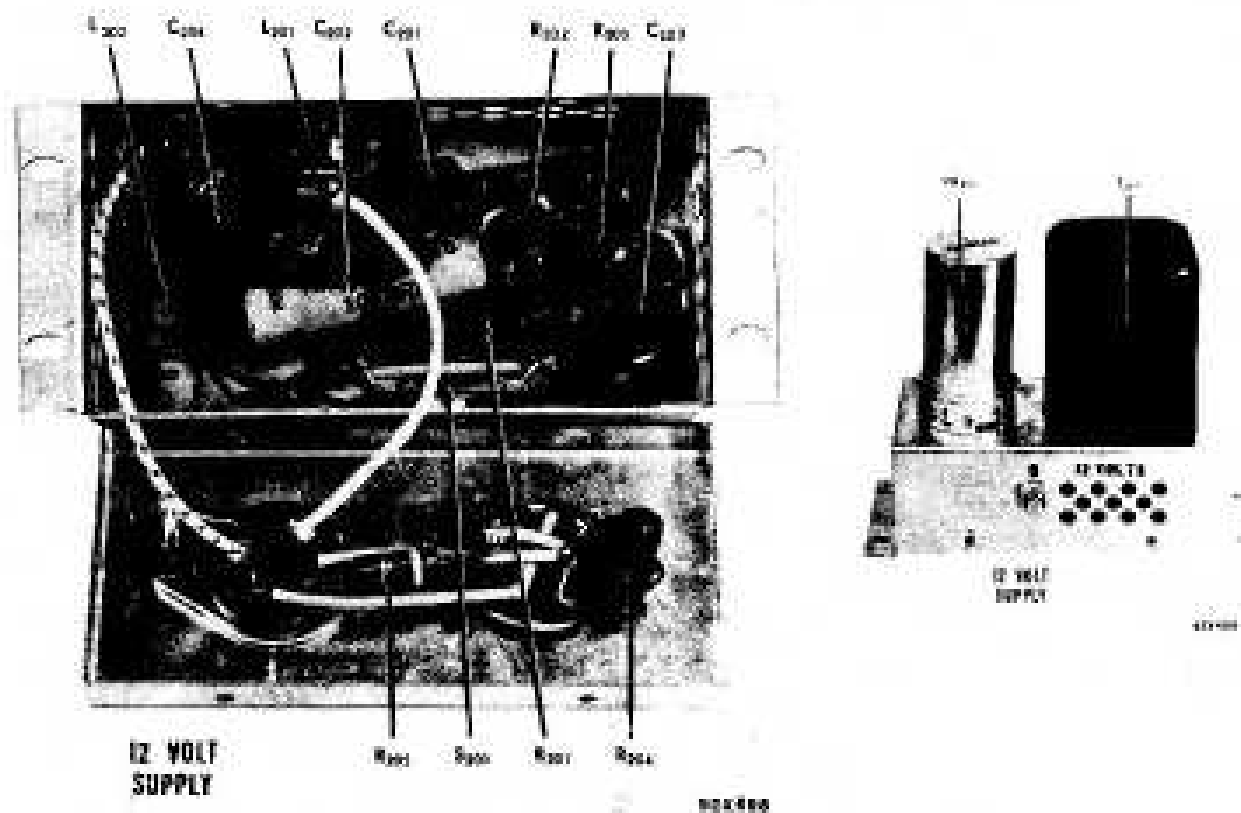


Fig. 7. Component location, 12-volt adapter unit.

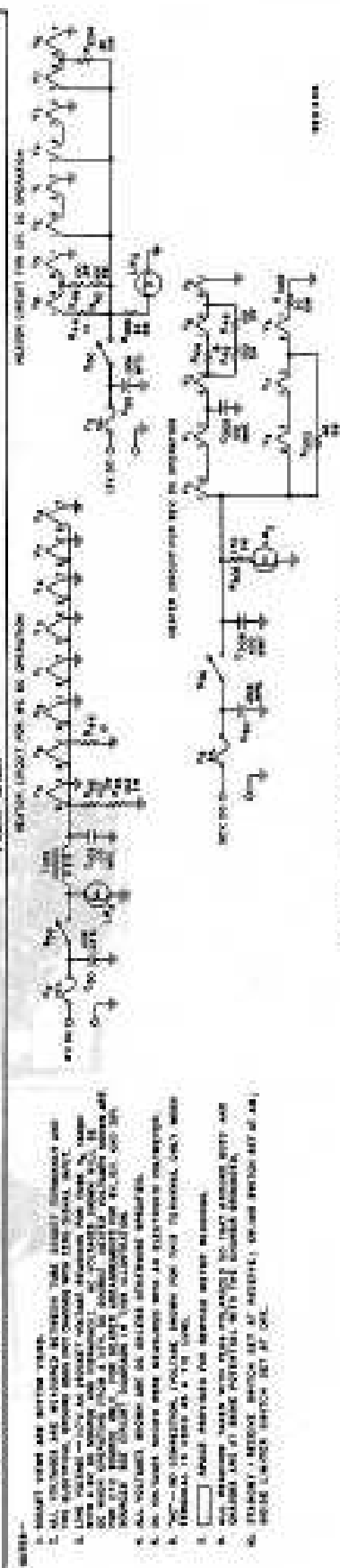
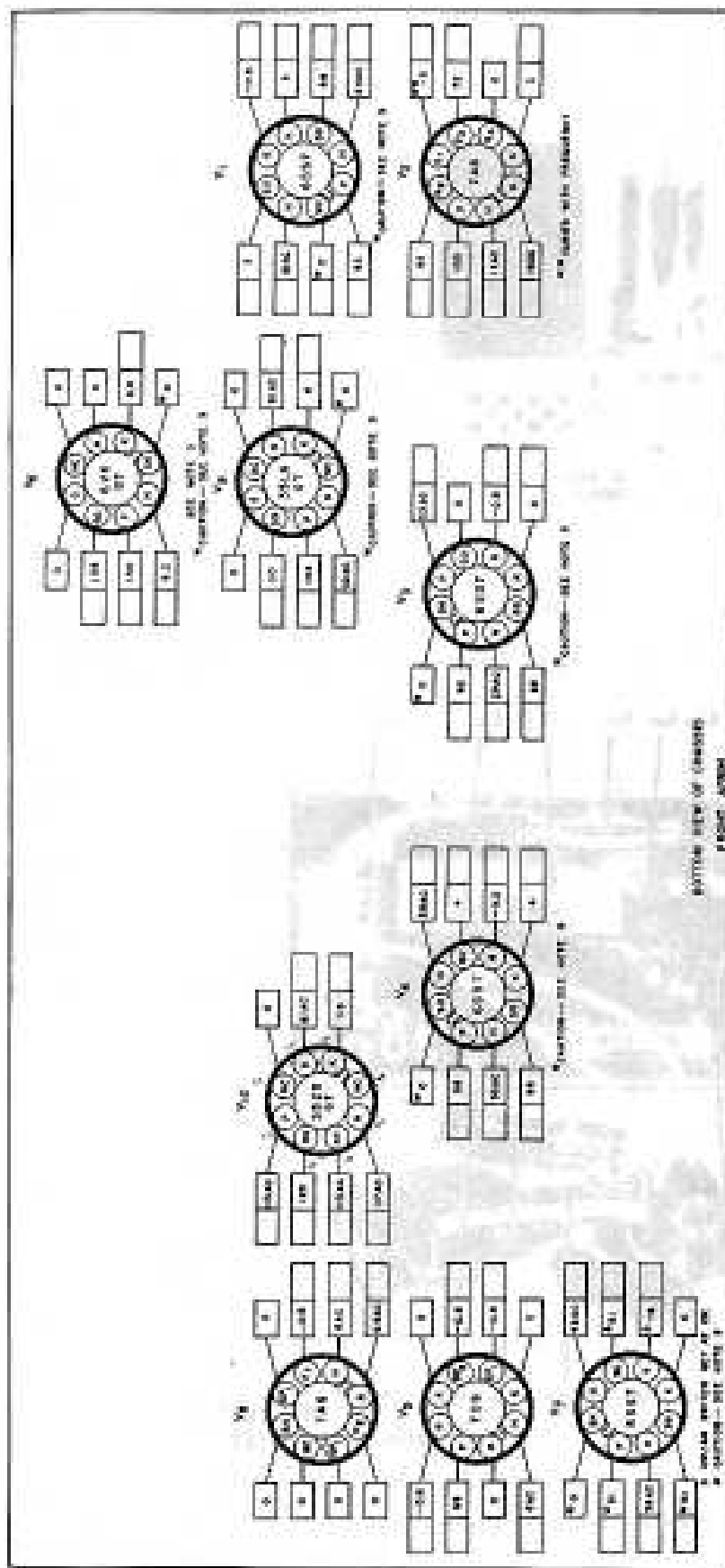


Fig. 1. Tube control voltage divider.

STEERING PARTS LIST

[illegible]

ABSTRACT

M-1.24	1 megaplate walt, carthur	PC100AF1100
M-2.5	775 plates walt, carthur	PC100AF1200
M-3	Fluorator, variable 20,000 plates	31000.2
M-3.24.33	47,000 plates walt, carthur	PC100AF1400
M-8	1000 plates walt, carthur	PC100AF1500
M-3.24.33.35	1000 plates walt, carthur	PC100AF1600
M-8	1500 plates walt, carthur	PC100AF1700
M-10.15.15.15	600,000 plates walt, carthur	PC100AF1800
M-10.14	2300 plates walt, carthur	PC100AF1900
M-14	700 plates walt, carthur	PC100AF2000
M-10	450 plates walt, carthur	PC100AF2100
M-17.17.17	8 megaplate walt, carthur	PC100AF2200
M-10.44	100 plates walt, carthur	PC100AF2300
M-21	10 megaplates walt, carthur	PC100AF2400
M-21	1 megaplate, 100 plates, 100,000 counts	31000.3
M-34	15,000 plates walt, carthur	PC100AF2500
M-35.37	300,000 plates walt, carthur	PC100AF2600
M-20.15	475,000 plates walt, carthur	PC100AF2700
M-21.2.2.19	150 plates walt, carthur	PC100AF2800
M-10.19	300,000 plates walt, carthur	PC100AF2900
M-35	160,000 plates walt, carthur	PC100AF3000
M-31	950 plates walt, carthur	PC100AF3100
M-12	100 plates walt, carthur	PC100AF3200
M-41	2000 plates walt, carthur	PC100AF3300
M-41	15 plates walt, carthur	PC100AF3400
M-44	15 plates walt, carthur	PC100AF3500
M-45.48	100 plates walt, carthur	PC100AF3600
M-46	150,000 plates walt, carthur	PC100AF3700
M-47	30,000 plates walt, carthur	PC100AF3800
M-171	5000 plates walt, carthur	PC100AF3900
M-190.191	300 plates walt, carthur	PC100AF4000
M-191	4700 plates walt, carthur	PC100AF4100
M-190.191	210 plates walt, carthur	PC100AF4200
M-190	20 counts walt, carthur	PC100AF4300
M-205	10 plates walt, carthur	PC100AF4400
M-191	1000 plates walt, carthur	PC100AF4500
M-190	40 counts walt, carthur	PC100AF4600
M-190.191	1000 plates walt, carthur	PC100AF4700
M-205	150 plates walt, carthur	PC100AF4800
M-206	30 plates walt, carthur	PC100AF4900

MANAGEMENT AND CONTROL

T-1	Transformer, antenna stage, band 1	3103004
T-2	Transformer, antenna stage, band 1	3203005
T-3	Transformer, antenna stage, band 2	3303006
T-4	Transformer, antenna stage, band 1	3403007
T-5	Transformer, antenna stage, bands 1 & 2	3503008
T-6	Transformer, antenna stage, band 1	3603009
T-7	Transformer, antenna stage, band 2	3703010
T-8	Transformer, antenna stage, band 2	3803011
T-9	Transformer, antenna stage, band 2	3903012
T-10	Transformer, antenna stage, band 2	4003013
T-11	Transformer, antenna stage, band 2	4103014
T-12	Transformer, antenna stage, bands 1 & 2	4203015
T-13	Transformer, antenna stage, bands 1 & 2	4303016
T-14	Transformer, antenna stage, bands 1 & 2	4403017

SERVICE PARTS LIST

[illegible]

WITNESS

5-1	Dried, crushed, uncracked, containing no stems	600-610
5-1.5	Dried, crushed, uncracked, no stems or stems containing	60-610
5-2	Cracked, lumpy, or cracked	60-610-1
5-3	Cracked, lumpy, or cracked, TO 10	60-610-2
5-4	Cracked, lumpy, or cracked, TO 10, 10-15	60-610-3
5-5	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20	60-610-4
5-6	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25	60-610-5
5-7	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30	60-610-6
5-8	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35	60-610-7
5-9	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40	60-610-8
5-10	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45	60-610-9
5-11	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50	60-610-10
5-12	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55	60-610-11
5-13	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60	60-610-12
5-14	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65	60-610-13
5-15	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70	60-610-14
5-16	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75	60-610-15
5-17	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80	60-610-16
5-18	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85	60-610-17
5-19	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90	60-610-18
5-20	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95	60-610-19
5-21	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100	60-610-20
5-22	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105	60-610-21
5-23	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110	60-610-22
5-24	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115	60-610-23
5-25	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120	60-610-24
5-26	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125	60-610-25
5-27	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130	60-610-26
5-28	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135	60-610-27
5-29	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140	60-610-28
5-30	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145	60-610-29
5-31	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150	60-610-30
5-32	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155	60-610-31
5-33	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160	60-610-32
5-34	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165	60-610-33
5-35	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170	60-610-34
5-36	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175	60-610-35
5-37	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180	60-610-36
5-38	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185	60-610-37
5-39	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190	60-610-38
5-40	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195	60-610-39
5-41	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195, 195-200	60-610-40
5-42	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195, 195-200, 200-205	60-610-41
5-43	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195, 195-200, 200-205, 205-210	60-610-42
5-44	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195, 195-200, 200-205, 205-210, 210-215	60-610-43
5-45	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195, 195-200, 200-205, 205-210, 210-215, 215-220	60-610-44
5-46	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195, 195-200, 200-205, 205-210, 210-215, 215-220, 220-225	60-610-45
5-47	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195, 195-200, 200-205, 205-210, 210-215, 215-220, 220-225, 225-230	60-610-46
5-48	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195, 195-200, 200-205, 205-210, 210-215, 215-220, 220-225, 225-230, 230-235	60-610-47
5-49	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195, 195-200, 200-205, 205-210, 210-215, 215-220, 220-225, 225-230, 230-235, 235-240	60-610-48
5-50	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195, 195-200, 200-205, 205-210, 210-215, 215-220, 220-225, 225-230, 230-235, 235-240, 240-245	60-610-49
5-51	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195, 195-200, 200-205, 205-210, 210-215, 215-220, 220-225, 225-230, 230-235, 235-240, 240-245, 245-250	60-610-50
5-52	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195, 195-200, 200-205, 205-210, 210-215, 215-220, 220-225, 225-230, 230-235, 235-240, 240-245, 245-250, 250-255	60-610-51
5-53	Cracked, lumpy, or cracked, TO 10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180, 180-185, 185-190, 190-195, 195-200, 200-205, 205-210, 210-215, 215-220, 220-225, 225-230, 230-235, 235-240, 240-245, 245-250, 25	

TURBIDIMETER AND FLAMES

Y-1, Y-2	Type: 6807, p-n-p gtr, 300 mW, 100 kHz, comp. and RF driver stages	400.0007
Y-3	Type: T88, mini p-n-p	400.1418
Y-5	Type: T88, detector & 1st audio amp.	400.1418
Y-6	Type: 5A 6GT, audio power amp. 15, 12.5 V, operation	400.67 6077
Y-8	Type: T88, ABL	400.1418
Y-9	Type: 6A 6GT, audio-power amp. 100 W, d.c. 60-amp	400.14 6077
Y-18	Type: 6A 6GT, rectifier	400.03 6077
6A 6GT	Same as Y-9 - 6A 6GT - 67 (Chinese brand)	100.0254

PLUG AND LOCATE

[illegible]

NOTES AND REFERENCES

[illegible]

	RAM board	822779
	Ram controller	9C001-1
	Control, disk controller	228449
	Window, glass	228798
	Baffle, speaker	443232
	Speaker assembly	826858
	Cr. sl. speaker	7C335-1
	Radio controls, hand-held	100454-1
	Book, TRNG.	144947
	Book, SCHEMATIC VOLUME	156856
	Book, TONE	152543
	Book, ZEPHYR CONTROL	154956
PL-2	Power cable, 115 V. AC, 10' operation	8703880
PL-3	Power cable, 5 V. operation	8703881
PL-4	Power cable, 12 V. operation	8703881-2
PL-5	Power cable, 12 V. operation	8703881-3
SL181	Stimulator unit, 5V. operation	276143
SL229	Stimulator unit, 12 V. operation	276144
VS0-301	Stimulator unit, 20 V. operation	276145

