

**LECTERNETTE MODEL L-21
AMPLIFIER SCHEMATIC**

COMPONENTS PARTS LIST

RESISTORS 1/2 WATT

R 1	270 OHM
R 2	10K OHM
R 3	100K OHM
R 4	22K OHM
R 5	10K OHM Mic.
R 6	10K OHM
R 7	50K OHM Phono
R 8	100K OHM
R 9	6.8K OHM
R 10	3.3K OHM
R 11	50K OHM Treble
R 12	10K OHM Bass
R 13	470 OHM
R 14	270K OHM
R 15	100K OHM
R 16	68 OHM
R 17	10 OHM Var.*
R 18	270 OHM
R 19	1K OHM
R 20	3.3K OHM**
R 21	68 OHM
R 22	470 OHM
R 23	120 OHM
R 24	6.8K OHM
R 25	400 OHM Var.

SWITCHES

SW1	Auxiliary Mic.
SW2	Master Mic.

SW3 Power On-Off
SW4 Reading Lamp

TRANSISTORS

TR1	GA2570 Pre-amp.
TR2	GA2570 Pre-amp.
TR3	GA2570 Pre-amp.
TR4	T13028 Driver
TR5	T13028 Output
TR6	T13028 Output
TR7	T13028 D.C. Unit

TRANSFORMERS

T1	AM 1424 Driver
T2	AM 1396 Audio Output
T3	AM 1423A A.C. Power

INPUT JACKS

J1	Master Mic.
J2	Auxiliary Mic.
J3	Auxiliary Mic.
J4	Phono
J5	Recorder

CAPACITORS IN MFD.

C 1	.005-200V
C 2	2-6V
C 3	.25-200V
C 4	2-6V
C 5	2-6V

C 6	25-6V
C 7	.25-200V
C 8	.005-200V
C 9	.05-200V
C 10	.25-200V
C 11	.05-200V
C 12	100-15V
C 13	100-25V
C 14	100-15V
C 15	400-25V
C 16	100-25V
C 17	400-25V
C 18	400-25V

MISCELLANEOUS

C1	AC Rectifier
C2	AC Rectifier
D3	12V-400MW ZENER
M1	0-15 D.C. Volt Meter
SKT1	Speaker Outlet
SKT2	Speaker Outlet
SKT3	115-V A.C. Outlet
SKT4	115-V A.C. Receptacle
F1	3/4 AMP Fuse
B1	F4BW 6V
B2	F4BW 6V
TC1	Thermister
LP1	40W Lumiline Lamp
SC500	Microphone, Complete
S1	8" 8 OHM Cone Speaker

SERVICING INFORMATION

Transistor	Collector	Base	Emitter	Transistor	Collector	Base	Emitter
TR1	3.2	0.3	0	TR4	5.8	0.2	0
TR2	4.5	0.3	0	TR5	12	0.18	0
TR3	12	0.5	0.2	TR6	12	0.18	0

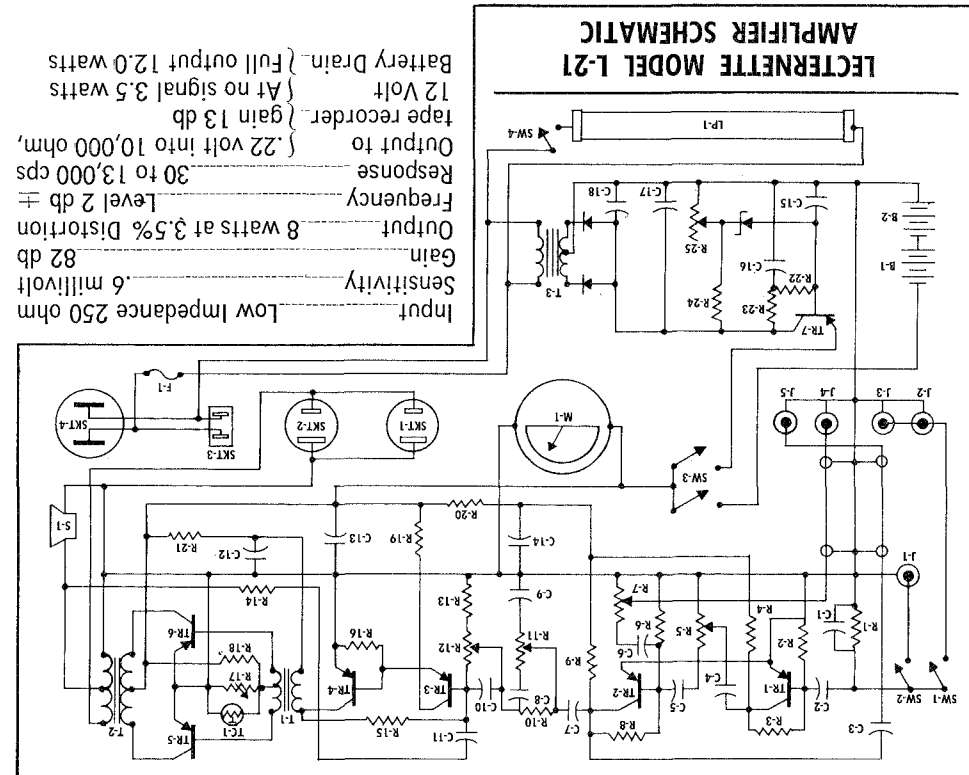
D.C. VOLTAGE READINGS TO CHASSIS (+) WITH NO SIGNAL.

*No signal current of output stage set at approximately 80 MA by adjusting R17.

**R20 controls gain; may vary 1K to 6.8K.

PRINTED IN U.S.A.

MADE IN U.S.A.



**LECTERNETTE MODEL L-21
AMPLIFIER SCHEMATIC**

Input Low Impedance 250 ohm
Sensitivity 6 millivolt
Gain 82 db
Output 8 watts at 3.5% Distortion
Frequency Level 2 db ±
Response 30 to 13,000 cps
Output to tape recorder .22 volt into 10,000 ohm, gain 13 db
12 Volt At no signal 3.5 watts
Battery Drain Full output 12.0 watts

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D.C. VOLTAGE READINGS TO CHASSIS (+) WITH NO SIGNAL.

Transistor	Collector	Base	Emitter	Transistor	Collector	Base	Emitter
TR1	3.2	0.3	0	TR4	5.8	0.2	0
TR2	4.5	0.3	0	TR5	12	0.18	0
TR3	12	0.5	0.2	TR6	12	0.18	0

SERVICING INFORMATION

SW2	Master Mic.	SW1	Auxiliary Mic.
C 5	2-6V	C 4	2-6V
C 4	2-6V	C 3	.25-200V
C 3	.25-200V	C 2	2-6V
C 2	2-6V	C 1	.005-200V
C 1	.005-200V	R 25	400 OHM Var.
R 25	400 OHM Var.	R 24	6.8K OHM
R 24	6.8K OHM	R 23	120 OHM
R 23	120 OHM	R 22	470 OHM
R 22	470 OHM	R 21	68 OHM
R 21	68 OHM	R 20	3.3K OHM**
R 20	3.3K OHM**	R 19	1K OHM
R 19	1K OHM	R 18	270 OHM
R 18	270 OHM	R 17	10 OHM Var.*
R 17	10 OHM Var.*	R 16	68 OHM
R 16	68 OHM	R 15	100K OHM
R 15	100K OHM	R 14	270K OHM
R 14	270K OHM	R 13	470 OHM
R 13	470 OHM	R 12	10K OHM Bass
R 12	10K OHM Bass	R 11	50K OHM Treble
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R 9	6.8K OHM	R 8	100K OHM
R 8	100K OHM	R 7	50K OHM Phono
R 7	50K OHM Phono	R 6	10K OHM
R 6	10K OHM	R 5	10K OHM Mic.
R 5	10K OHM Mic.	R 4	22K OHM
R 4	22K OHM	R 3	100K OHM
R 3	100K OHM	R 2	10K OHM
R 2	10K OHM	R 1	270 OHM
R 1	270 OHM	SW4	Power On-Off
SW4	Power On-Off	SW3	Reading Lamp
SW3	Reading Lamp	SW2	Master Mic.
SW2	Master Mic.	SW1	Auxiliary Mic.

INPUT JACKS

J1	Master Mic.
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TRANSFORMERS

T1	AM 1424 Driver
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B2	F4BW 6V
TC1	Thermister
LP1	40W Lumiline Lamp
SC500	Microphone, Complete
S1	8" 8 OHM Cone Speaker

SWITCHES

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SW1	Auxiliary Mic.

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