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La SALLE
MODELS LA101, LA101-A



MODEL LA-101-A

La SALLE
MODELS LA101, LA101-A

TRADE NAME	LaSalle Models LA-101, LA-101-A
MANUFACTURER	Biggs Electronics, Inc., 1328 Pulaski Street, Peru, Illinois
TYPE SET	AC-Battery Operated 10 Tube 5 Channel Transmitter-Receiver
POWER SUPPLY	105 - 125 Volts AC (or) 6 Volt Storage Battery (or) 12 Volt Storage Battery
RATING	57 Watts, .56 Amp. @117 Volts AC (Receive); 75 Watts, .7 Amp. @117 Volts AC (Transmit) 3.8 Amp. @12.6 Volts DC (Receive); 6.2 Amp. @12.6 Volts (Transmit)
TUNING RANGE	Any 5 of Citizens Band Channels 1 thru 22

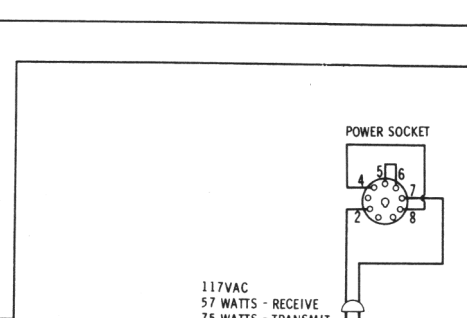
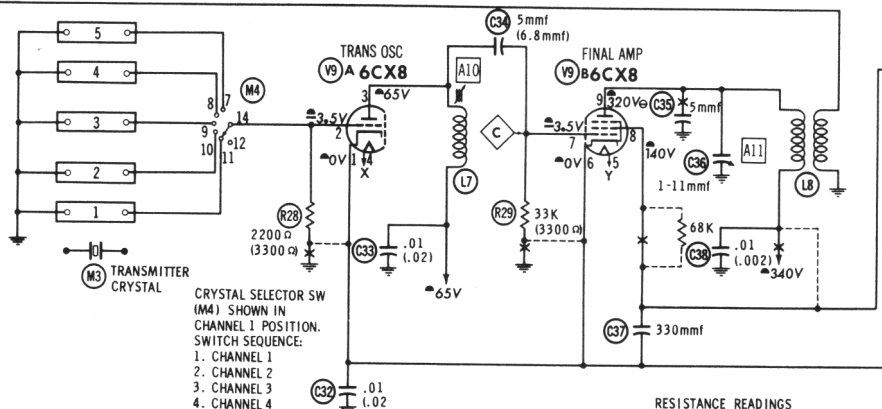
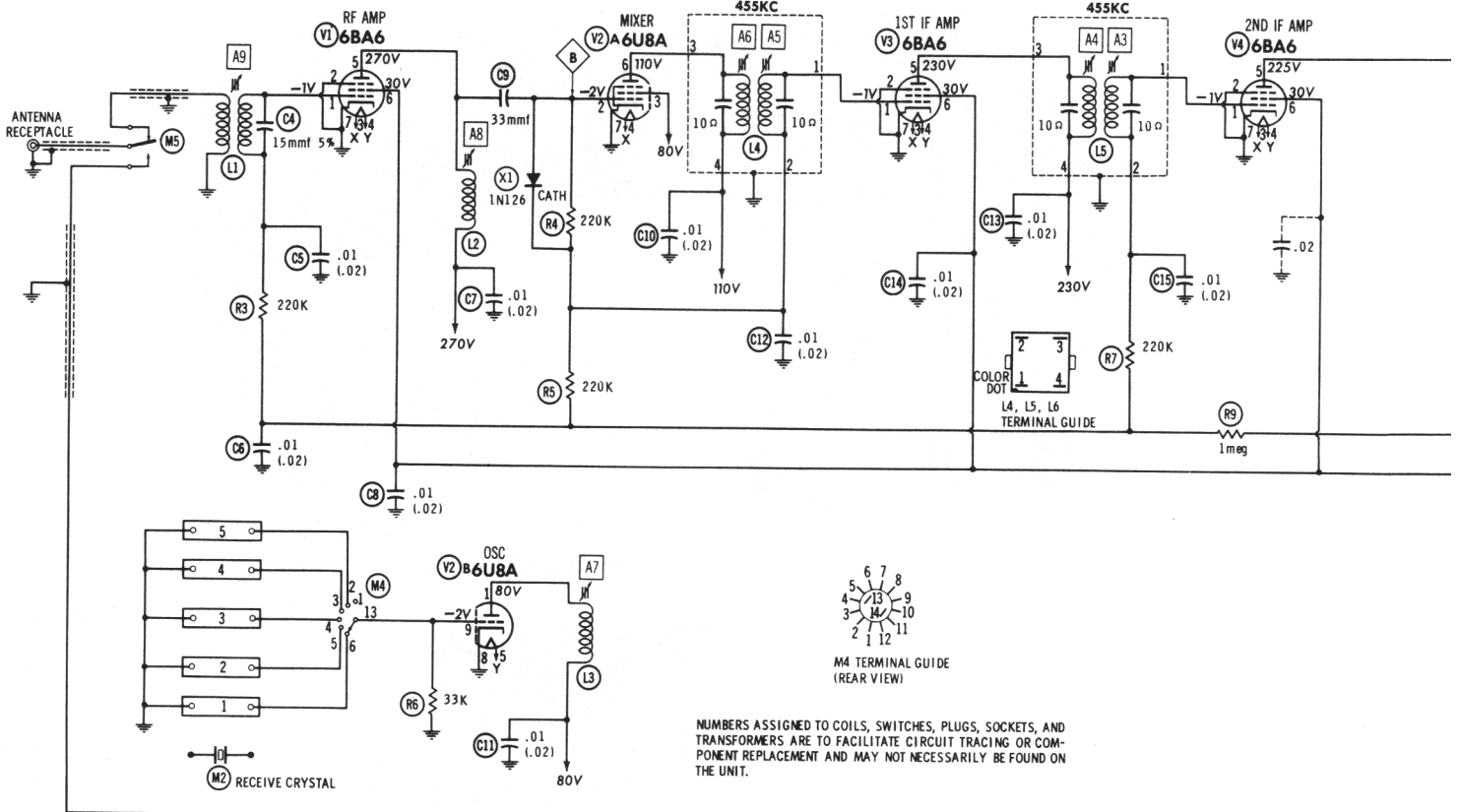
NOTICE
ONLY THOSE PERSONS PROPERLY LICENSED ARE PERMITTED TO MAKE REPAIRS OR ADJUSTMENTS WHICH MAY RESULT IN ILLEGAL OPERATION. (REFER TO FCC RULES & REGULATIONS PART 19, SUBPART D, SECTION 19.71)

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana



The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of LY782

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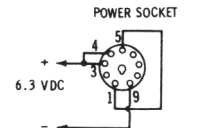
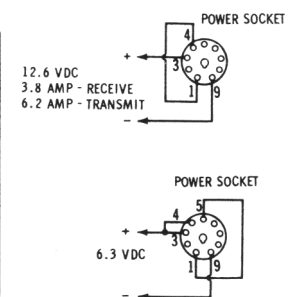
RESISTANCE READINGS

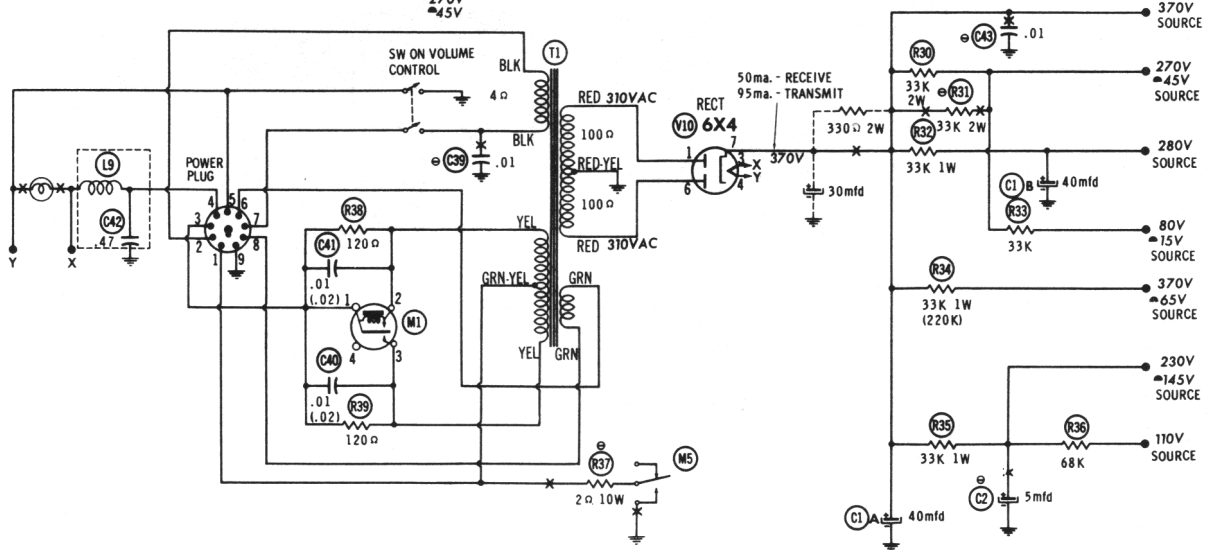
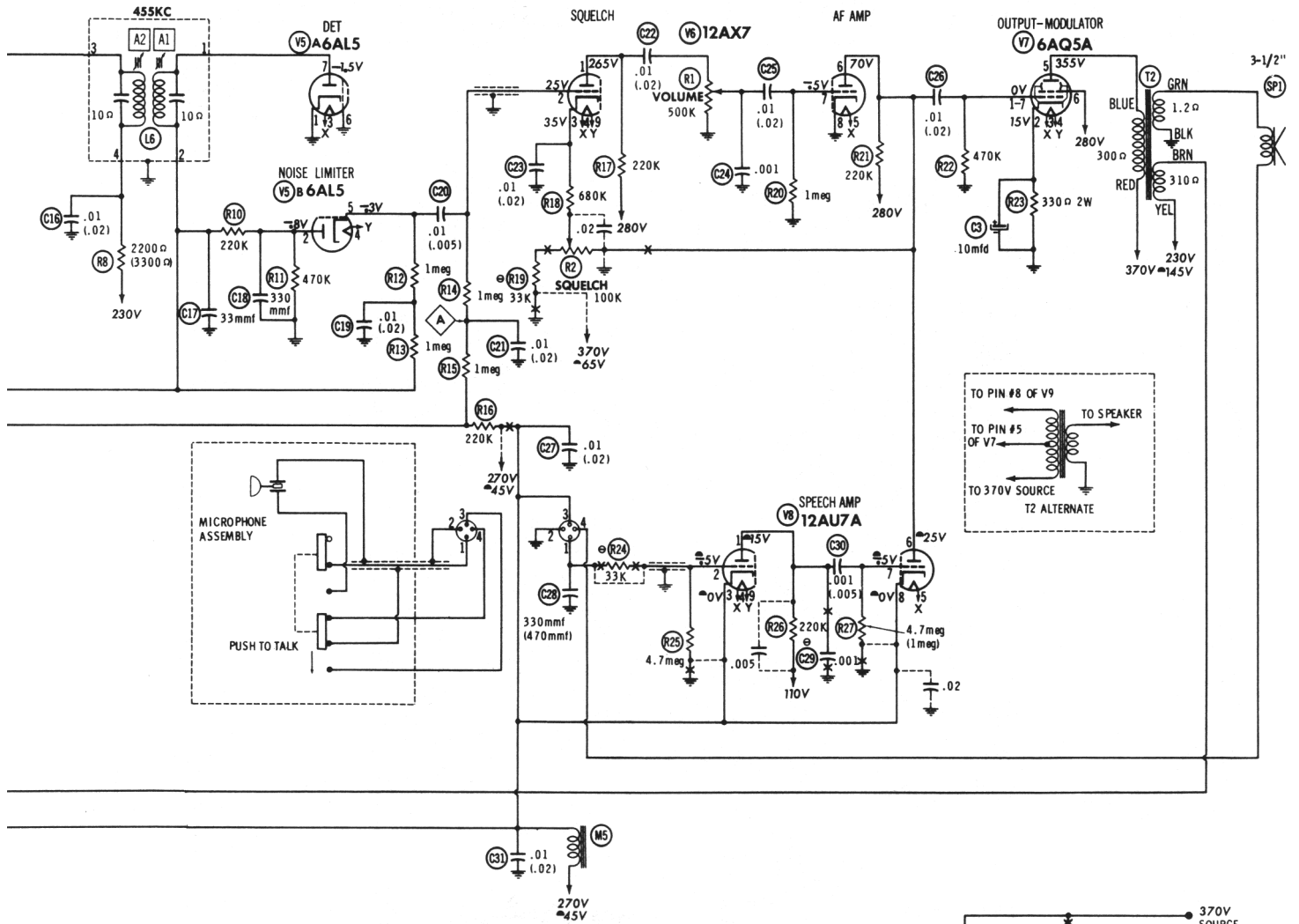
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6BA6	1.9meg	0Ω	FIL	FIL	†15K	†235K	0Ω		
V2	6U8A	†48K	2.1meg	†48K	FIL	FIL	†100K	0Ω	0Ω	33K
V3	6BA6	1.9meg	0Ω	FIL	FIL	†33K	†235K	0Ω		
V4	6BA6	1.9meg	0Ω	FIL	FIL	†36K	†235K	0Ω		
V5	6AL5	0Ω	470K	FIL	FIL	2.7meg	0Ω	690K		
V6	12AX7	†250K	†2.2meg	750K	FIL	FIL	†250K	1meg	0Ω	0Ω
V7	6AQ5A	470K	330Ω	FIL	FIL	†300Ω	†33K	470K		
V8	12AU7A	†320K	4.7meg	†19K	FIL	FIL	†250K	4.7meg	†19K	FIL
V9	6CX8	†19K	2200Ω	†33K	FIL	FIL	†19K	33K	†33K	†0Ω
V10	6X4	†100Ω	TP	FIL	FIL	TP	†100Ω	†		

ALL MEASUREMENTS TAKEN IN "RECEIVE" POSITION UNLESS OTHERWISE DESIGNATED. TP TIE POINT
 † MEASURED FROM PIN 7 OF V10. VOLUME CONTROL SET AT MINIMUM, SQUELCH CONTROL SET AT NORMAL OPERATION.

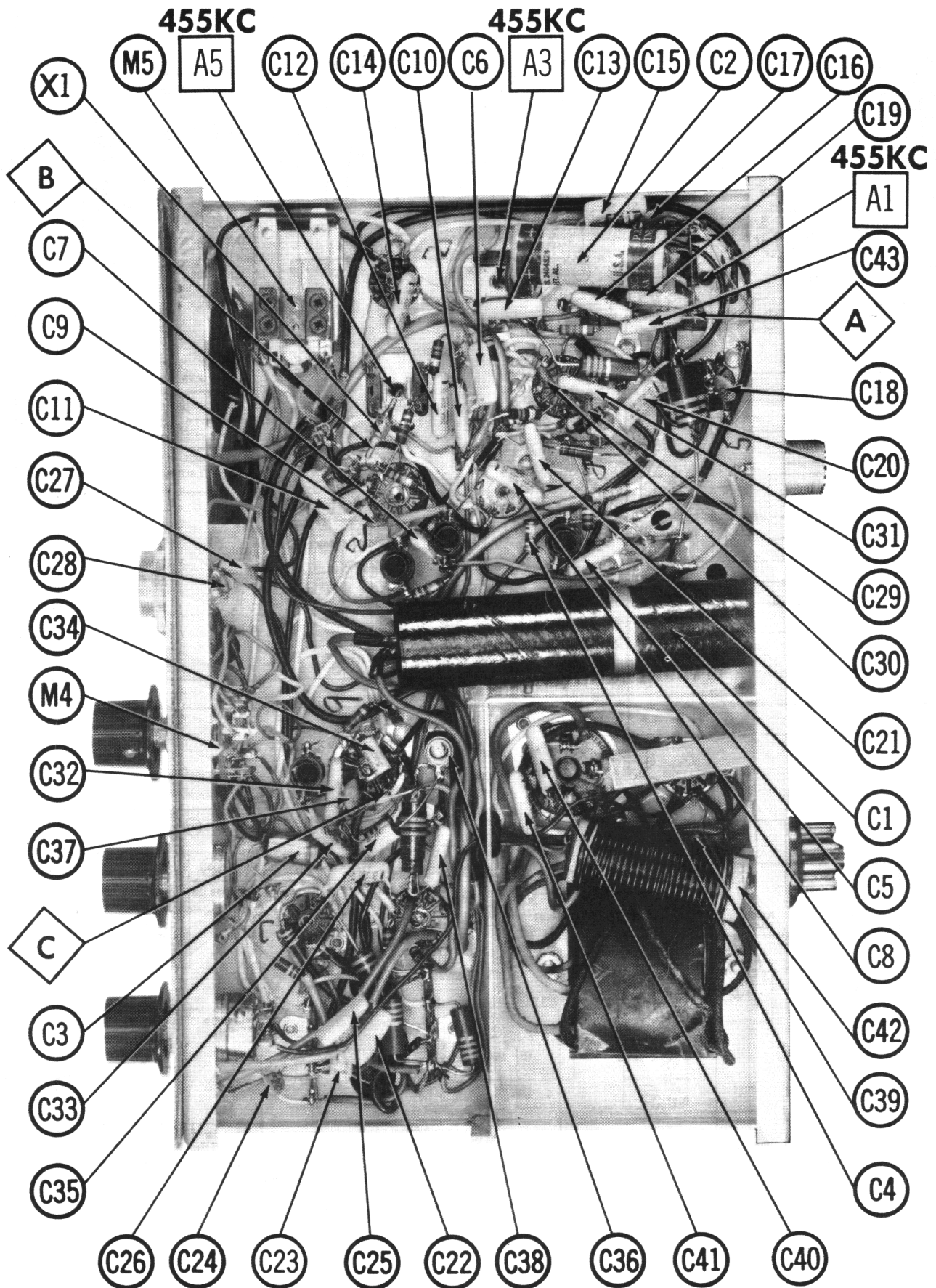
† THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.

- TAKEN IN "TRANSMIT" POSITION.
 - SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
 - 1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
 - 2. Socket connections are shown as bottom views.
 - 3. Measured values are from socket pin to common ground.
 - 4. Line voltage maintained at 117 volts for voltage readings.
 - 5. Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
 - 6. Volume control at maximum, no signal applied for voltage measurements.
- A PHOTOFAC STANDARD NOTATION SCHEMATIC
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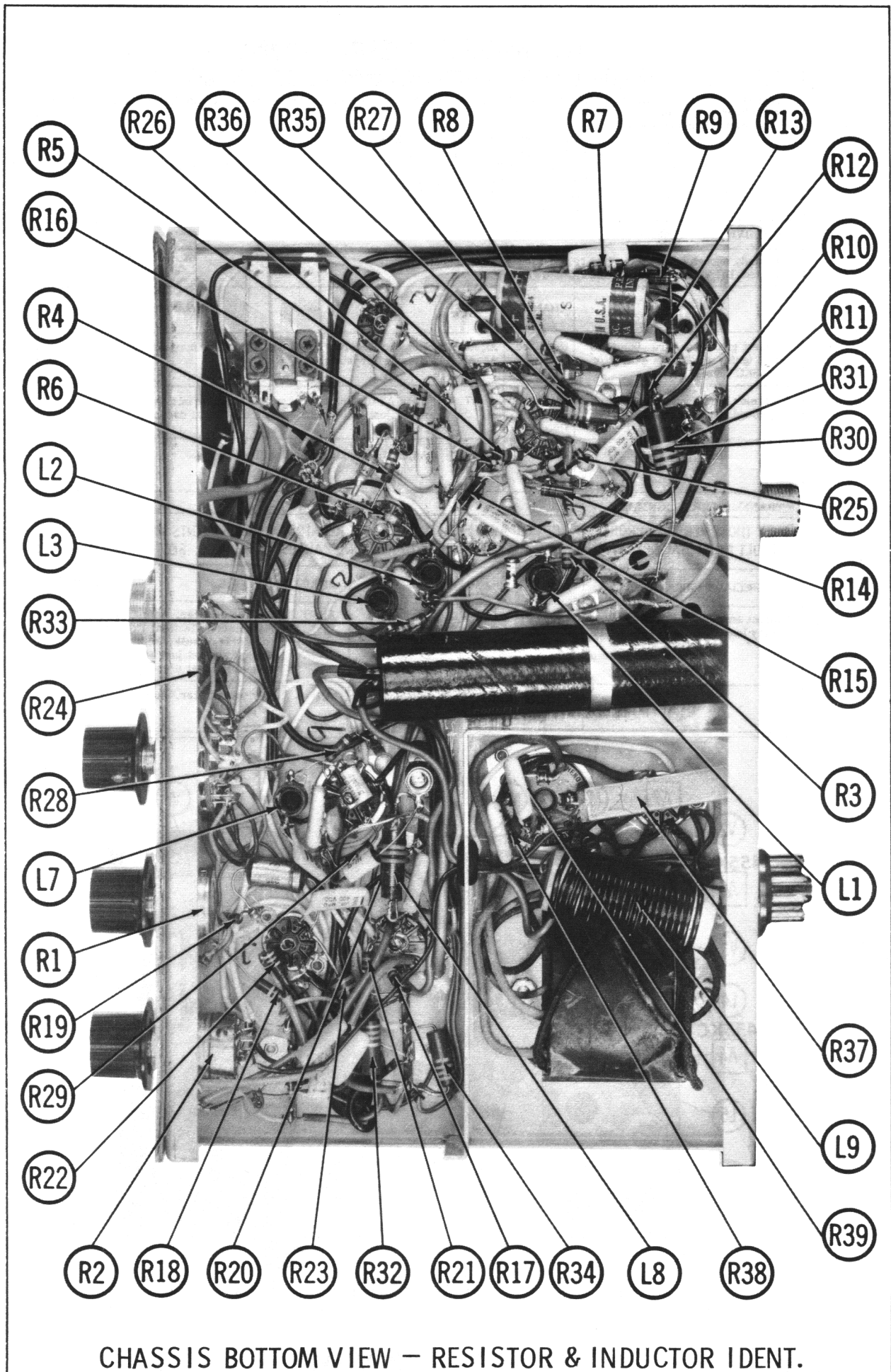




La SALLE
MODELS LA101, LA101-A



CHASSIS BOTTOM VIEW - ALIGNMENT, CAPACITOR & MISC. IDENT.



CHASSIS BOTTOM VIEW - RESISTOR & INDUCTOR IDENT.

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Best results will be obtained when adjusting A9 and A11 if the antenna normally used is connected and the unit is as nearly in the cabinet as possible.

Suggested Alignment Tools:

- A1 thru A6..... GENERAL CEMENT #8282, 8606, 8606-L, 9091
WALSCO #2526, 2541, 2542, 2543, 2544
- A7, A8, A9..... GENERAL CEMENT #5000, 5003, 5066, 8271, 8272, 8276, 8277, 8290, 8609, 8722, 9150, 9298
WALSCO #2515, 2516, 2518, 2519, 2525, 2541
- A10, A11..... GENERAL CEMENT #5003, 8271, 8275, 8276, 8609, 8721, 8722, 9150, 9298
WALSCO #2516, 2518, 2519

RECEIVER ALIGNMENT

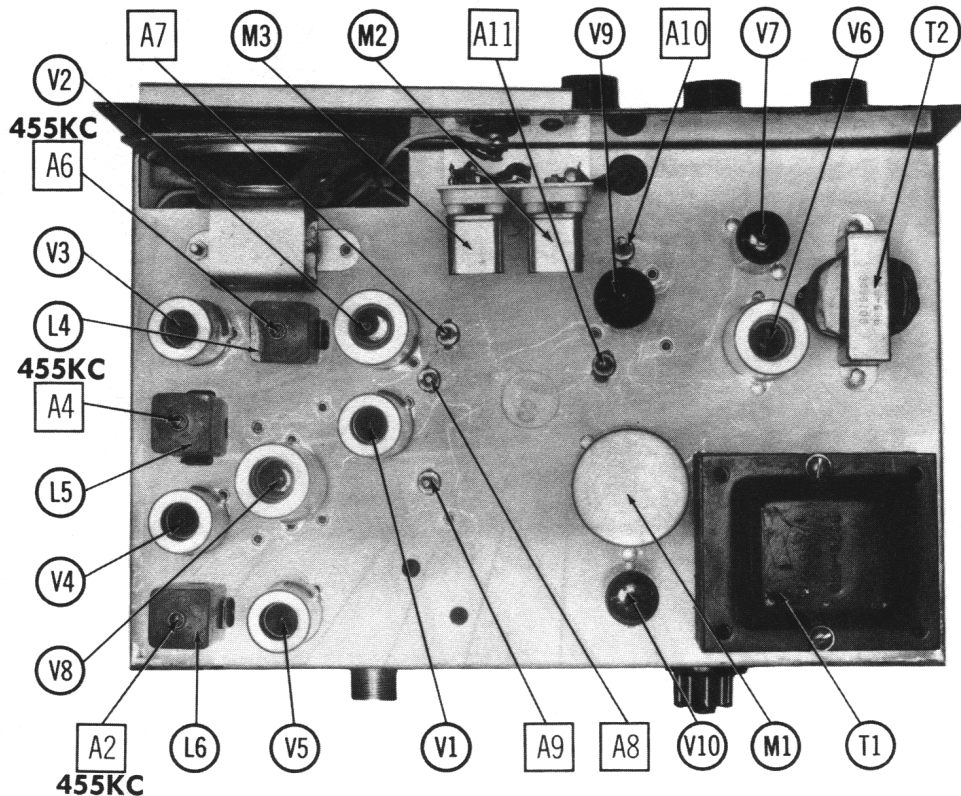
Use only enough generator output to provide a usable indication. Connect DC VTVM between Point \diamond and ground.

	SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
1.	Connect generator thru .05mfd to Pin 2 (grid) of V2. Set generator to 455KC (unmod.).	Not Used	A1, A2, A3, A4, A5, A6	Remove Receiver crystals. Adjust for maximum deflection. Reinsert crystals.
2.	High side to antenna input, common to ground. Tune to channel Freq.	Highest Channel Used.	A7	Rock A7 to each side of peak. Not rate of dropoff and set to point just below peak on side of gradual dropoff.
3.	"	Center Channel Freq.	A8, A9	Adjust for maximum deflection.

TRANSMITTER ALIGNMENT

ONLY THOSE PERSONS PROPERLY LICENSED ARE PERMITTED TO MAKE REPAIRS OR ADJUSTMENTS WHICH MAY RESULT IN ILLEGAL OPERATION. (REFER TO FCC RULES & REGULATIONS PART 19, SUBPART D, SECTION 19.71)

	SPECIAL INSTRUCTIONS	INDICATOR	ADJUST	REMARKS
1.	Connect antenna, RF Wattmeter or dummy load to antenna receptacle.	DC VTVM between Point \diamond and ground.	A10	Key transmitter. Adjust A10 for maximum deflection. Rock A10 to each side of peak. Note rate of dropoff and set just below peak on side of gradual dropoff.
2.	"	RF Wattmeter or field strength meter.	A11	Key transmitter. Adjust for maximum output.



CHASSIS—TOP VIEW

PARTS LIST AND DESCRIPTIONS

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Shielded Antenna Lead	Use BELDEN No. 8214 Lowest Loss (RG-8/U Type) 8237 Low Loss (RG-8/U) 8240 (Solid) Miniature (RG-58/U) 8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No. 8497 3 Conductor- 1 Shielded for Press-to-Talk (Neoprene) 8496 3 Conductor- 1 Shielded for Press-to-Talk (Vinyl)
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets
Bonding Strap	Use BELDEN No. 8661 (3/8 In.)

TUBES

AMPEREX			GENERAL ELECTRIC			RAYTHEON			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	RF Amplifier	6BA6	V6	Squelch-AF Amp.	12AX7						
V2	Mixer-Osc.	6U8A	V7	Output-Modulator	6AQ5A						
V3	1st IF Amplifier	6BA6	V8	Speech Amp.	12AU7A						
V4	2nd IF Amplifier	6BA6	V9	Transmit Osc. -Final	6CX8						
V5	Det. -Noise Limiter	6AL5	V10	Rectifier	6X4						

* Alternate.

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	CURRENT RATING (Measured)	ORIGINAL Part or Type No.	RECTIFIERS		DIODES	NOTES
			RCA PART No.	SARKES TARZIAN PART No.	RAYTHEON PART No.	
X1		1N126			1N126	Overload

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		La Salle PART No.	REPLACEMENT DATA					
	CAP.	VOLT.		AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1A	40	450	Note 1	PRS2420	BBRD4445	QT2-8	TCD78	TDLD-31	TVA-2740
B	40	450				QT1-4	TC70		
C2	5	450				MT1-5	TC22	MLV10-25	TE-1204
C3	10	25		PTT82	NLW10-25				

Note 1. Not used in some versions.

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C4	15 5%				22R5Q15	CM-20C-150		
C5	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C6	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C7	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C8	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C9	33		BPD-33	DD-330	LI0Q33	CCD-330	GP433	5GA-Q33
C10	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C11	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C12	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C13	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C14	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C15	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C16	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C17	33		BPD-33	DD-330	LI0Q33	CCD-330	GP433	5GA-Q33
C18	330		BPD-330	DD-331	LI0T33	CCD-331	GP333	5GA-T33
C19	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C20	.01	(.005) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C21	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C22	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C23	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C24	.001		BPD-001	DD-102	LI0D1	CCD-102	GP210	5GA-D10
C25	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C26	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C27	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C28	330	(470) †	BPD-330	DD-331	LI0T33	CCD-331	GP333	5GA-T33
C29	.001	Note 1	BPD-101	DD-102	LI0D1	CCD-102	GP210	5GA-D10
C30	.001	(.005) †	BPD-001	DD-102	LI0D1	CCD-102	GP210	5GA-D10
C31	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C32	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C33	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C34	5	(6.8) †	ADM-15-050		22R5V5	VCM-20-050		
C35	5	Note 1	ADM-15-050		22R5V5	VCM-20-050		
C36	1-11							
C37	330		BPD-330	DD-331	LI0T33	CCD-331	GP333	5GA-T33
C38	.01	(.002) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C39	.01	Note 1	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C40	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C41	.01	(.02) †	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10
C42	.47		P688N-47		PM-6P47	6DP-6-474	GEM-6047	6TP-P47
C43	.01	Note 1	P488N-01	D6-103	PM-4S1	4DP-1-103	GEM-411	4TM-S10

Note 1. Not used in some versions.
† Alternate Value

CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA					
			LaSalle PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R1	Volume & Switch	500K	(W7270)	AB-60, KR-1, AK-9 or (F2-500K, KR-1, SU204)	A47-500K, SWE-12, RS-3		(BU2, CF25, SS5, GC) *	U48, US-26, or (UA55A, U941, SL2500)
R2	Squelch	100K	(W7269)	B-40, or (AB-40, AK-9)	A47-100K-S, RS-3			U41 or (UA15A, SL2500)

* "SNAPTROL".

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R3	220K				R22	470K			
R4	220K				R23	330Ω 2W			
R5	220K				R24	33K			Note 1
R6	33K				R25	4.7meg			
R7	220K				R26	220K			
R8	2200Ω			(3300Ω) †	R27	4.7meg			(1meg) †
R9	1meg				R28	2200Ω			(3300Ω) †
R10	220K				R29	33K			(3300Ω) †
R11	470K				R30	33K 2W			
R12	1meg				R31	33K 2W			Note 1
R13	1meg				R32	33K 1W			
R14	1meg				R33	33K			
R15	1meg				R34	33K 1W			(220K) †
R16	220K				R35	33K 1W			
R17	220K				R36	68K			
R18	680K				R37	2Ω 10W	10W-9Q-2	PW10-2	Note 1
R19	33K			Note 1	R38	120Ω			
R20	1meg				R39	120Ω			
R21	220K								

Note 1. Not used in some versions.
† Alternate Value.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		LaSalle PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman PART No.	
L1	Receive Ant.						
L2	Receive RF		TV-118 ①	6171A ①	RTC-8609 ①	T216A	①Enlarge Mounting Hole
L3	Receive Osc.		TV-118 ①	6171A ①	RTC-8609 ①	T216A	
L4	1st IF		BC-352	12-C9	RTC-8636	T612	
L5	2nd IF		BC-353	12-C10	RTC-8637	T613	
L6	3rd IF		BC-353	12-C10	RTC-8637	T613	
L7	Trans. Osc.		TV-118 ①	6171A ①	RTC-8609 ①	T216A	
L8	Final						
L9	Hash Choke						

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	LaSalle PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117V @ .56A (.72A)* 12.6V @ 3.8A (6.2A)* SEC. 3 6.3V @ 4.2A	620VCT (.050A (.095A)*	11V @ 1.7A (2.7A)*						* Transmit

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	LaSalle PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	6000Ω	3-4Ω						

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	LaSalle PART No.	QUAM PART No.	
SP1	3 1/2"	PM	3-4Ω		3A07	

VIBRATOR

ITEM No.	TYPE	INPUT VOLTS	FRE-QUENCY	REPLACEMENT DATA				NOTES
				LaSalle PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	RADIART PART No.	
M1	Interrupter	6V			5301	1601	5301	

MISCELLANEOUS

ITEM No.	PART NAME	LaSalle PART No.	NOTES
M2	Crystal		Receive Specify Channel and Frequency Desired Transmit Channel Selector Receive - Transmit
M3	Crystal		
M4	Switch		
M5	Relay		