

PARTS LIST AND DESCRIPTIONS (Continued)

CONTROLS

ITEM No.	REPLACEMENT DATA				INSTALLATION NOTES
	RATING RESISTANCE	WATTS	LAFAYETTE PART No.	MALLORY PART No.	
R1A	500K	1/2	AB-60		Volume, FM Volume, AM
R2A	500K	1/2	AK-29		

SIGNAL DIODES

ITEM No.	REPLACEMENT DATA				NOTES
	ORIG. TYPE	LAFAYETTE PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	
M1	CA-79			IN60	AM Detector (Digital)

MISCELLANEOUS

ITEM No.	PART NAME	LAFAYETTE PART No.	NOTES
M2	Tuning Cap		FM, 3 Gang AM, 3 Gang (Ant. 45-500mmf, RF 38-490mmf, Osc. 29-225mmf) Function Selector, (Rotary Type) Power Off-On FM AM
M3	Tuning Cap.		
M4	Switch		
M5	Switch		
M6	Meter		
M7	Meter		

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors
Power Cord	8534 (Stranded) Available in Ten Colors 1725-K (7 1/2 Ft. Length) 1725-L (7 1/2 Ft. Length)

RESISTORS

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

ITEM No.	RATING	REPLACEMENT DATA		REMARKS	RATING	REPLACEMENT DATA		REMARKS
		IRC PART No.	WORKMAN TV PART No.			IRC PART No.	WORKMAN TV PART No.	
R3	680				100K			
R4	1000				100K			
R5	2000				50K			
R6	10K				100K			
R7	1000				100K			
R8	470K				100K			
R9	500				100K			
R10	500				100K			
R11	500				100K			
R12	500				100K			
R13	500				100K			
R14	50K				100K			
R15	50K				100K			
R16	15K				100K			
R17	15K				100K			
R18	50K				100K			
R19	10K				100K			

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA		NOTES
		LAFAYETTE PART No.	WORKMAN TV PART No.	
L1	RF Choke (1uh)			
L2	RF Choke (3uh)			
L3	FM RF			
L4	FM RF			
L5	FM Mixer Grid			
L6	FM Osc.			
L7	RF Choke (3uh)			
L8	1st FM IF			
L9	2nd FM IF			
L10	3rd FM IF			
L11	Limiter			
L12	Discriminator			
L13	Loopstick			
L14	AM RF			
L15	AM Osc.			
L16	1st AM IF			
L17	2nd AM IF			
L18	F.L. Choke (1.5uh)			

TRANSFORMER (POWER)

ITEM No.	REPLACEMENT DATA				NOTES
	RATING	LAFAYETTE PART No.	WORKMAN TV PART No.	THORNTON PART No.	
T1	117V@ .37A TAP @ .060A 4A @ 100V DC (Not Used)				

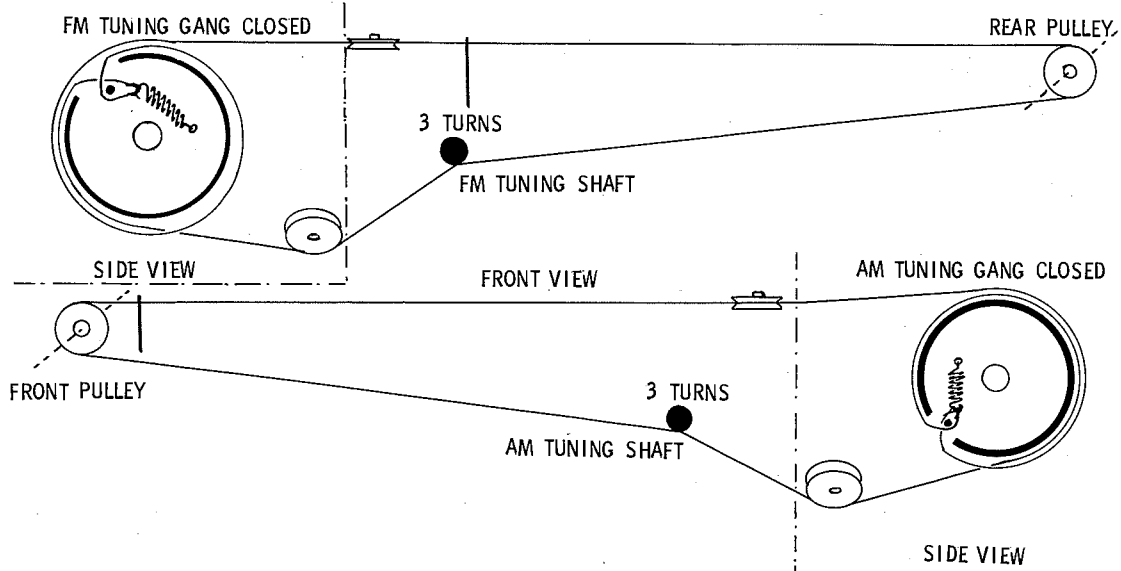


The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of KL468

LAFAYETTE MODEL LT-77

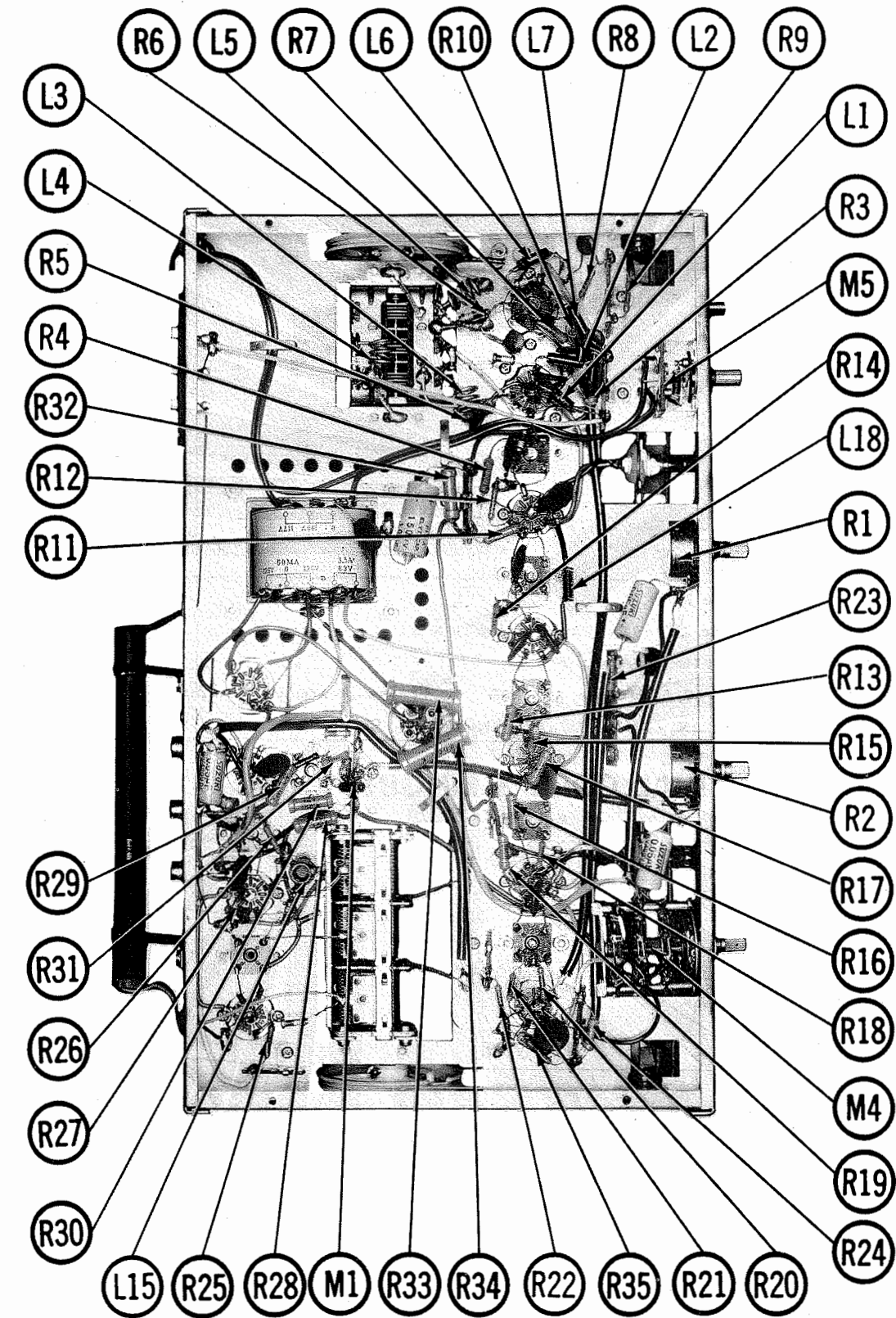
TRADE NAME LaFayette Model LT-77
SUPPLIER LaFayette Radio, 165-08 Liberty Ave., Jamaica 33, N. Y.
TYPE SET AC Operated 11 Tube FM-AM Tuner
POWER SUPPLY 105 - 125 Volts AC, 50-60 Cycles RATING 40 Watts, .37 Amp. @117 Volts AC
TUNING RANGE-BROADCAST 530 - 1650KC FREQ. MOD. 88 - 108MC

DIAL CORD STRINGING



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

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CHASSIS BOTTOM VIEW-RESISTOR, INDUCTOR & MISC. IDENT.

PARTS LIST AND DESCRIPTIONS

TUBES				GENERAL ELECTRIC				RAYTHEON				SYLVANIA			
ITEM No.	RATING	USE	TYPE	ITEM No.	USE	TYPE		ITEM No.	USE	TYPE		ITEM No.	USE	TYPE	
V1	FM RF Amp.-Mixer	6AQ8 (ECC85) *		V7	Discriminator	6AL5		V7	Discriminator	6AL5		V7	Discriminator	6AL5	
V2	FM Osc. - AFC	6AQ8 (ECC85) *		V8	AM RF Amplifier	6BA6		V8	AM RF Amplifier	6BA6		V8	AM RF Amplifier	6BA6	
V3	1st FM IF Amplifier	6BA6		V9	AM Converter	6BE6		V9	AM Converter	6BE6		V9	AM Converter	6BE6	
V4	2nd FM IF Amplifier	6BA6		V10	AM IF Amplifier	6BA6		V10	AM IF Amplifier	6BA6		V10	AM IF Amplifier	6BA6	
V5	1st FM Limiter	6AU6		V11	Rectifier	6X4		V11	Rectifier	6X4		V11	Rectifier	6X4	
V6	2nd FM Limiter	6AU6													

* Alternate

ELECTROLYTIC CAPACITORS

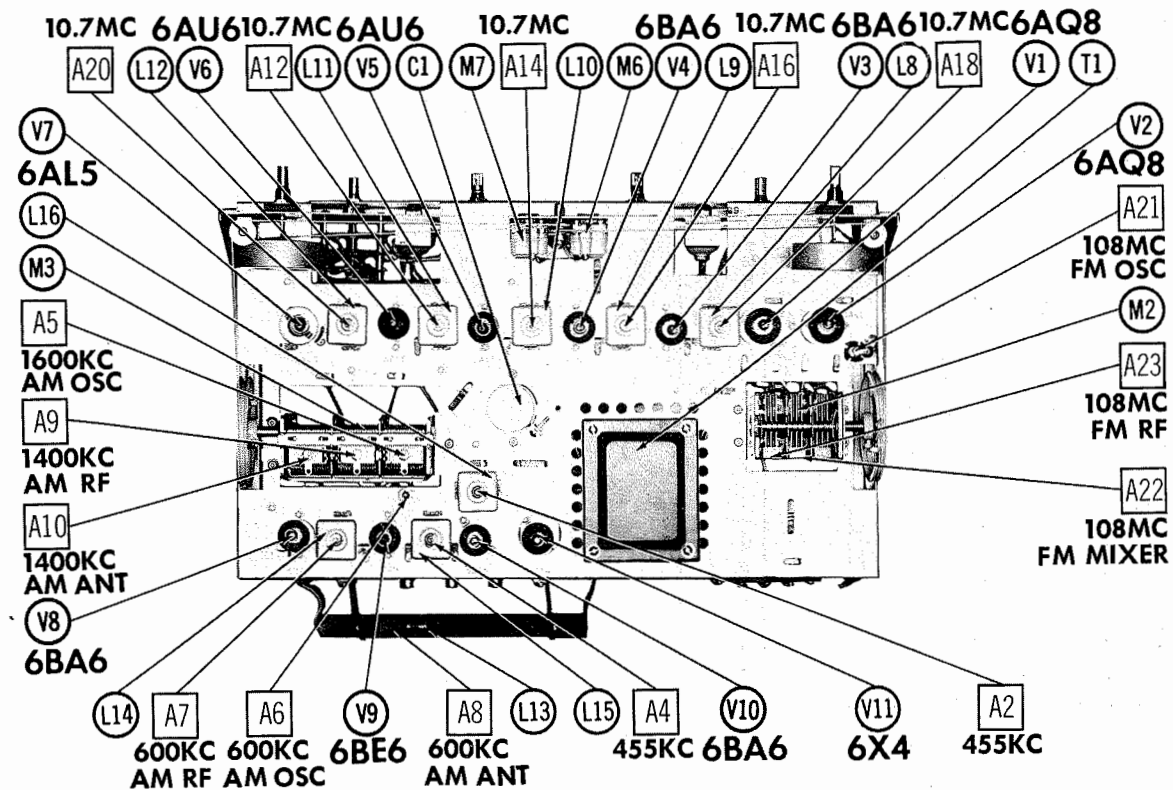
REPLACEMENT DATA				REPLACEMENT DATA			
ITEM No.	RATING	USE	TYPE	ITEM No.	RATING	USE	TYPE
C1A	340 150			C1	340 150		
C1B	340 150			C2	340 150		
C1C	340 150						

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

REPLACEMENT DATA				REPLACEMENT DATA			
ITEM No.	RATING	REMARKS	TYPE	ITEM No.	RATING	REMARKS	TYPE
C3	2000			C3	2000		
C4	10000			C4	10000		
C5	50 10%			C5	50 10%		
C6	2 5%			C6	2 5%		
C7	2000			C7	2000		
C8	10000			C8	10000		
C9	3-9			C9	3-9		
C10	10 N330 10%			C10	10 N330 10%		
C11	100 10%			C11	100 10%		
C12	2000			C12	2000		
C13	10000			C13	10000		
C14	5 5mmf			C14	5 5mmf		
C15	2000			C15	2000		
C16	10 10%			C16	10 10%		
C17	2000			C17	2000		
C18	10000			C18	10000		
C19	1 10%			C19	1 10%		
C20	10000			C20	10000		
C21	10000			C21	10000		
C22	10000			C22	10000		
C23	50 10%			C23	50 10%		
C24	10000			C24	10000		
C25	50 10%			C25	50 10%		
C26	10000			C26	10000		
C27	100 10%			C27	100 10%		
C28	100 10%			C28	100 10%		
C29	100 10%			C29	100 10%		
C30	100 10%			C30	100 10%		
C31	100 10%			C31	100 10%		
C32	100 10%			C32	100 10%		
C33	100 10%			C33	100 10%		
C34	100 10%			C34	100 10%		
C35	15 10%			C35	15 10%		
C36	10000			C36	10000		
C37	10000			C37	10000		
C38	100 10%			C38	100 10%		
C39	100 10%			C39	100 10%		
C40	10000			C40	10000		

CHASSIS—TOP VIEW



* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use only enough generator output to provide a usable indication.
Suggested Alignment Tools: A1 thru A4, A6, A7, A11 thru A20... GENERAL CEMENT #8721, 8722
WALSCO #2519
A5, A9, A10, A21, A22, A23..... GENERAL CEMENT #5004, 5009, 8195, 8274, 8275, 8607, 8728,
8987, 8988, 8989, 9291
WALSCO #2515, 2520, 2522, 2523, 2531, 2532, 2534, 2537, 2538

AM ALIGNMENT — SELECTOR IN AM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
1.	High side thru .1mfd to pin 7 (grid) of AM Converter. Low side to chassis.	455KC (Unmod.)	(AM) Point of non-interference.	DC probe to point Δ . Common to chassis.	A1, A2, A3, A4	Adjust for maximum deflection.
2.	Loop	1600KC	1600KC	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
3.	"	600KC	600KC	"	A6, A7, A8	"
4.	"	1400KC	1400KC Signal.	"	A9, A10	Adjust for maximum deflection.

FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM — SELECTOR IN FM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
5.	High side thru .001mfd to pin 7 (grid) of FM Mixer. Low side to chassis.	10.7MC (Unmod.)	(FM) Point of non-interference.	DC probe to point Δ . Common to chassis.	A11, A12, A13, A14, A15, A16, A17, A18	Adjust for maximum deflection.
6.	"	"	"	DC probe thru lmeq to point Δ . Common to chassis.	A19	"
7.	"	"	"	DC probe to point Δ . Common to chassis.	A20	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE — SELECTOR IN FM POSITION

Use frequency modulated signal with 60v modulation and 450KC sweep. Use 120v sawtooth voltage in scope for horizontal deflection.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
5.	High side thru .001mfd to pin 7 (grid) of FM Mixer. Low side to chassis.	10.7MC (450KC Swp.)	(FM) Point of non-interference.	Vert. amp. to point Δ . Low side to chassis.	A11, A12, A13, A14, A15, A16, A17, A18	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown.
6.	"	"	"	Vert. amp. thru 47K to point Δ . Low side to chassis.	A19	"
7.	"	"	"	Vert. amp. to point Δ . Low side to chassis.	A20	Adjust to place marker at the center of crossover lines similar to Fig. 2. SLIGHTLY retouch A19 for maximum amplitude and straightness of cross-over lines.

FM RF ALIGNMENT — SELECTOR IN FM POSITION

Coils not containing adjustable cores are adjusted by expanding or compressing coil turns.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
8.	High side thru 270 Ω to FM antenna terminal. Low side to chassis.	108MC (Unmod.)	(FM) 108MC	DC probe to point Δ . Common to chassis.	A21, A22, A23	Adjust for maximum deflection.
9.	"	88MC	88MC	"	L5, L4, L3	"

10.7MC

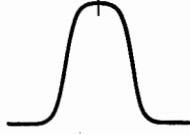


FIG. 1

10.7MC

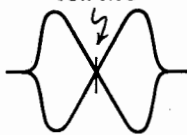
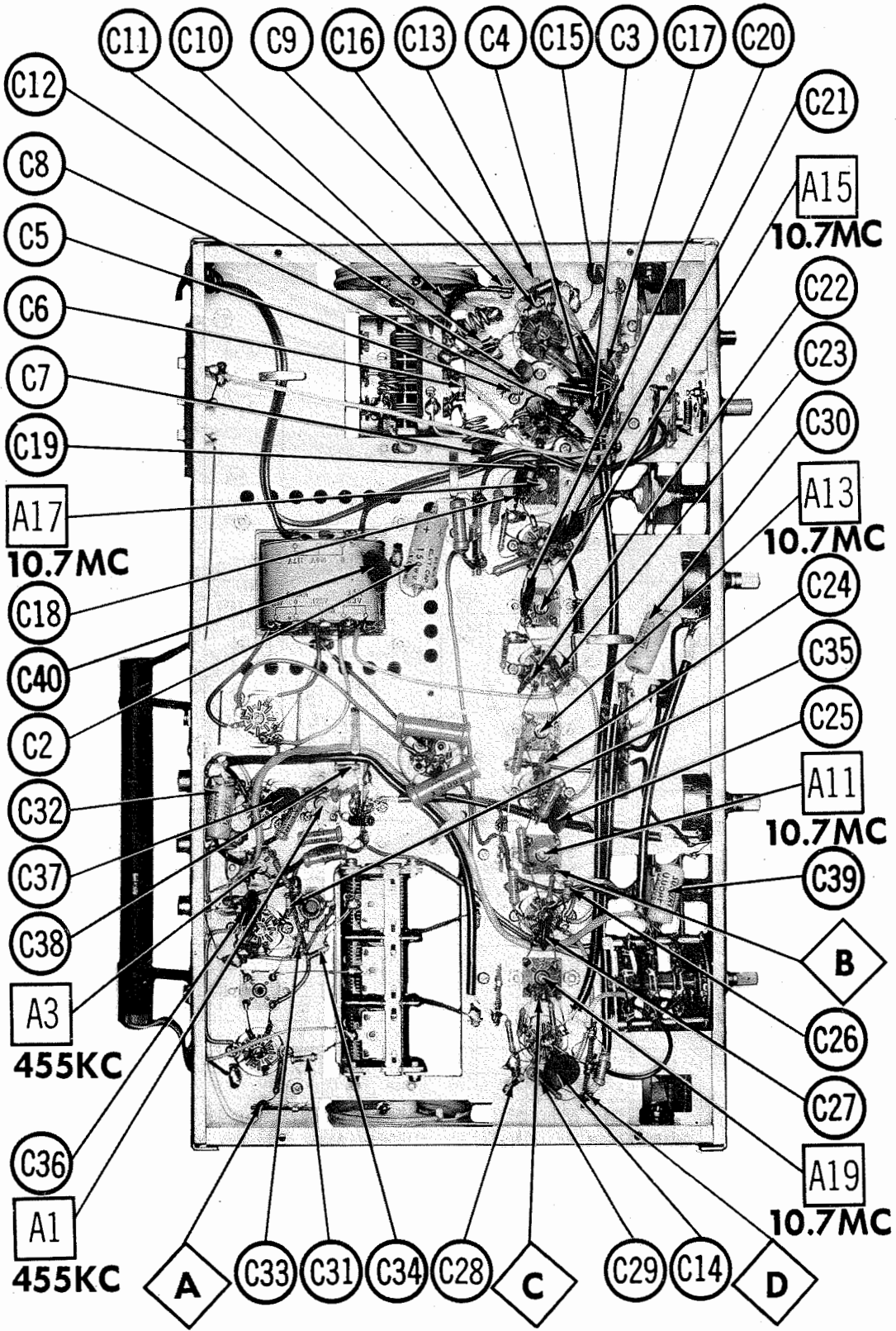


FIG. 2



CHASSIS BOTTOM VIEW-ALIGNMENT & CAPACITOR IDENT.

