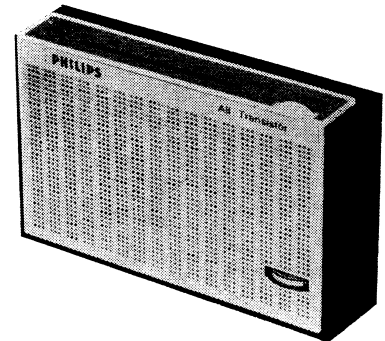


PHILIPS *Service* notes



MODEL LIWZ33T

SPECIFICATIONS

Tuning range	.....	.....	.....	.....	.....	525-1622 kc/s.
Intermediate frequency	.....	.....	.....	.....	.....	452.5 kc/s.
Batteries	.....	.....	.....	.....	.....	4 x type 1015 (4 x 1.5V).
Battery consumption	.....	.....	.....	.....	.....	12 mA (no signal).

REMOVAL OF PRINTED BOARD

The case back retaining screw is located within the battery compartment. Removal of this screw enables the back to be lifted off. Then remove the two board mounting screws and lift the board as a complete assembly away from the case to the extent of the speaker leads.

Refitting is a reversal of the above procedure but care should be taken to reposition the battery contacts when replacing the case lid.

ALIGNMENT

The locations of trimming points in the receiver are shown in an inset on the circuit drawing.

I.F. Alignment

Fully open the tuning capacitor and put the volume control at maximum. Using a 470K capacitor as dummy—

- Apply 452.5 kc/s to base TR3 and peak core of L10/11.
- Apply 451.4 kc/s to base TR2 and peak core of L8/9.
- Apply 450.6 kc/s to base TR1 and peak core of L6/7.

R.F. Alignment

Using a 470K capacitor as dummy, inject at base of TR1—

- With tuning capacitor fully closed, at 515 kc/s peak core of L4/5,
 - With tuning capacitor fully open, at 1630 kc/s peak C27.
- Repeat these adjustments.

Using a single turn around the aerial slab as coupling and rocking the tuning during adjustment—

- Apply 525 kc/s and peak position L1/2.
- Apply 1300 kc/s and peak C28.

August, 1966

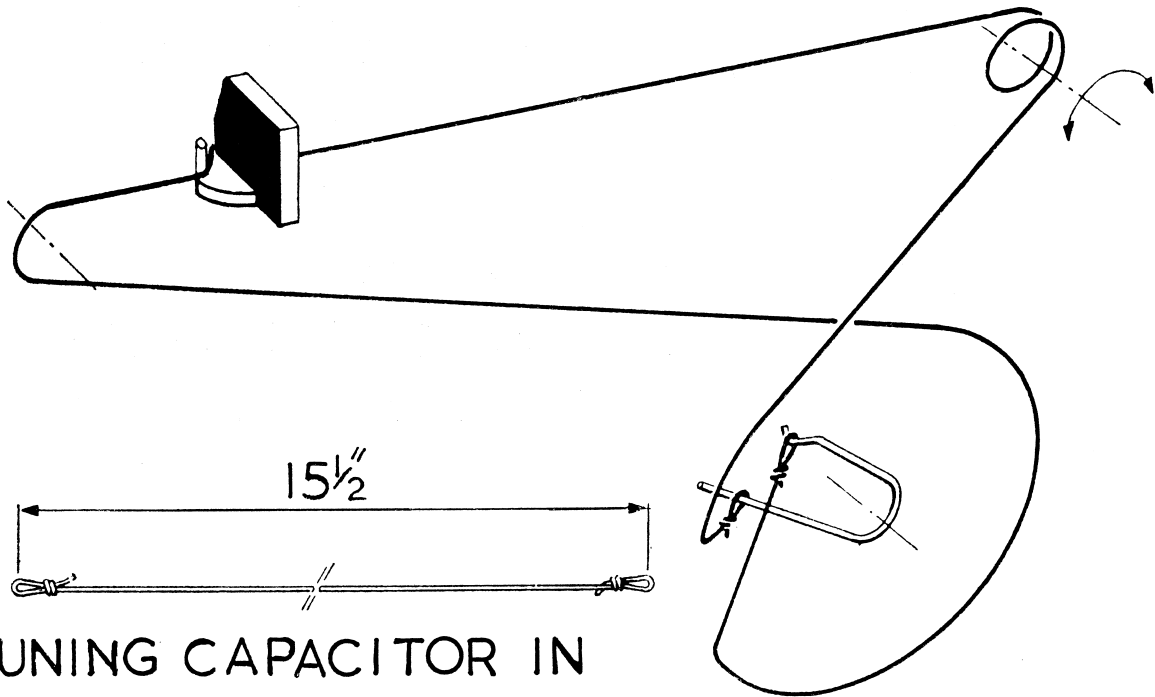
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LIWZ33T

MECHANICAL PARTS LIST

Description	Code No.	DESCRIPTION	CODE No.
Aerial slab support	4822.198.00188	Dial cord, 15½" required	MK.839.12
Battery connector assy. (+ and — take off)	4822.492.50405	Dial cursor assy.	4822.198.00187
Battery connector assy. (phone end)	4822.198.00199	Dial cord spring	4822.198.00185
Battery slide assy.	4822.423.40113	Dial drum	4822.198.00184
Carrying case	CR.575.055	Dial scale (see scale bracket and knob assy.)	
Case back assy.	4822.421.10001	Knob—tuning	4822.198.00179
Case front assy.	4822.420.10062	Knob—volume (see R11)	
Dial background	4822.198.00186	Phone/speaker switch	4822.198.00201
		Scale bracket and knob assy.	3113.108.07320



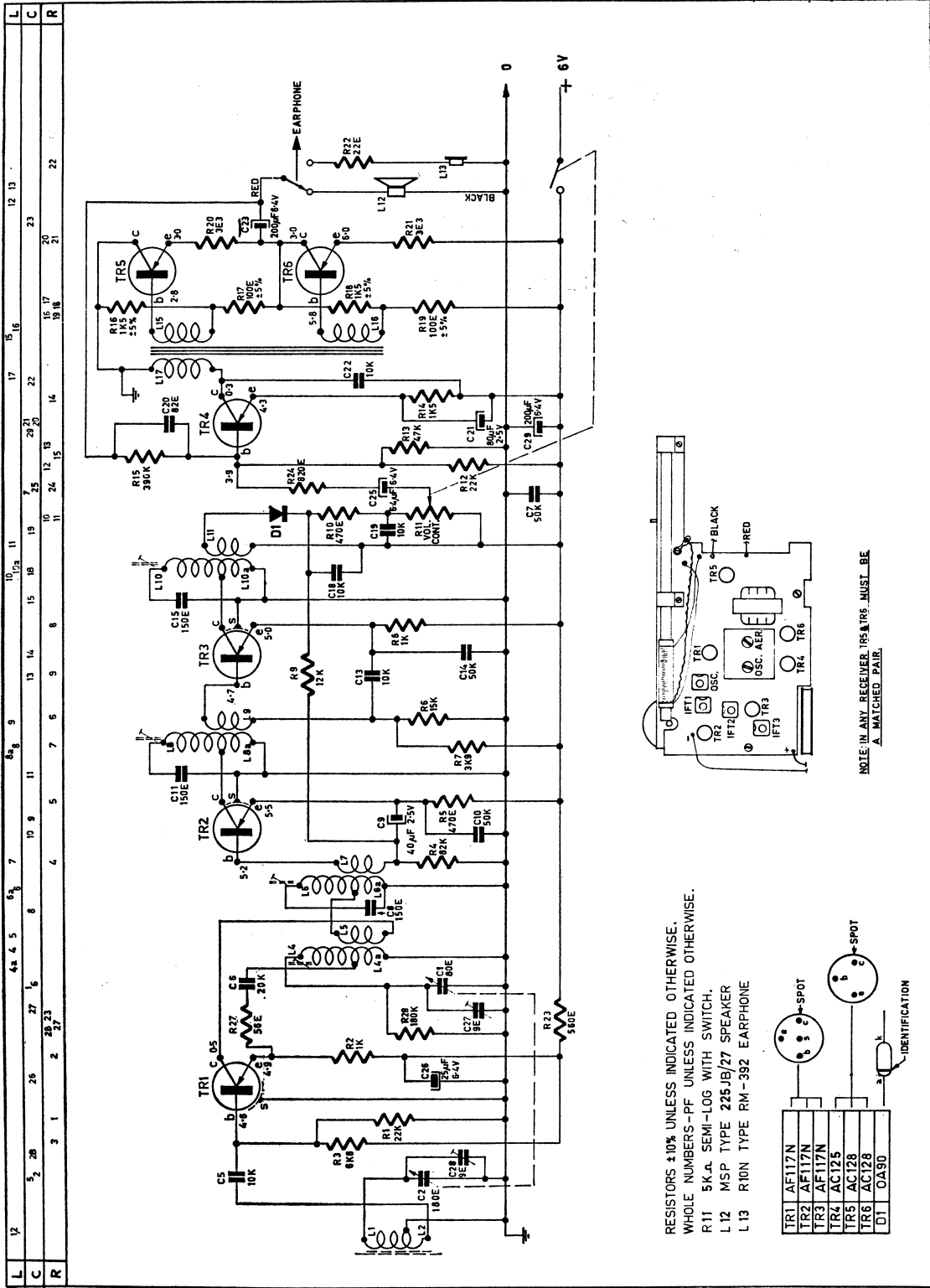
TUNING CAPACITOR IN
CLOSED POSITION

ELECTRICAL PARTS LIST

LIWZ33T

CAPACITORS				RESISTORS				INDUCTORS				
C. No.	Description	V.W.	Tol ±%	Type or Code No.	R. No.	Description	W.	Tol ±%	Type or Code No.	L. No.	Description	Code No.
1, 2, 27, 28 }	Tuning capacitor + trimmers	—	—	49.002.48	1	22K cracked carbon	10	10	B8.031.04NB/A22K	1, 2	Slab aerial assy.	4822.158.60175
5	10K flat foil	250	20	C.280.AE/P10K	2	1K cracked carbon	10	10	B8.031.04NB/A1K	4, 5	Oscillator coil	A3.192.55
6	22K flat foil	250	20	C.280.AE/P22K	3	6K8 cracked carbon	10	10	B8.031.04NB/A6K8	6, 7	1st I.F. transformer	4822.198.00193
7	47K flat foil	250	20	C.280.AE/P47K	4	82K cracked carbon	10	10	B8.031.04NB/A82K	8, 9	2nd I.F. transformer	4822.198.00193
8	Part of 1st I.F.T.				5	470E cracked carbon	10	10	B8.031.04NB/A470E	10, 11	3rd I.F. transformer	4822.198.00194
9	40M electrolytic	2.5	—	C.426.AR/A40	6	15K cracked carbon	10	10	B8.031.04NB/A15K	12	Speaker, MSP 53340/2.25JB/27	CZ.161.025
10	47K flat foil	250	20	C.280.AE/P47K	7	3K9 cracked carbon	10	10	B8.031.04NB/A3K9	13	Earphone	CZ.165.252
11	Part of 2nd I.F.T.				8	1K cracked carbon	10	10	B8.031.04NB/A1K	15, 16, 17	Driver transformer	4822.198.00195
13	10K ceramic plate	30	+100—20	C.331.AA/R10K	9	12K cracked carbon	10	10	B8.031.04NB/A12K			
14	47K flat foil	250	20	C.280.AE/P47K	10	470E cracked carbon	10	10	B8.031.04NB/A470E			
15	Part of 3rd I.F.T.				11	5K carbon potentiometer semi-log (volume) with SPST switch (on/off) and control knob			4822.101.90022			
18	10K ceramic plate	30	+100—20	C.331.AA/R10K	12	22K cracked carbon	10	10	B8.031.04NB/A22K			
19	10K ceramic plate	30	+100—20	C.331.AA/R10K	13	47K cracked carbon	10	10	B8.031.04NB/A47K			
20	82E ceramic, N750	500	10	C.304.GH/A82E	14	1K5 cracked carbon	10	10	B8.031.04NB/A1K5			
21	80M electrolytic	2.5	—	C.426.AR/A80	15	390K cracked carbon	10	10	B8.031.04NB/A390K			
22	10K ceramic plate	30	+100—20	C.331.AA/R10K	16	1K5 cracked carbon	5	5	B8.031.04NB/B1K5			
23	200M electrolytic	6.4	—	C.426.AR/C200	17	100E cracked carbon	5	5	B8.031.04NB/B100E			
25	6M4 electrolytic	6.4	—	C.426.AS/C6.4	18	1K5 cracked carbon	5	5	B8.031.04NB/B1K5			
26	25M electrolytic	6.4	—	C.426.AR/C25	19	100E cracked carbon	5	5	B8.031.04NB/B100E			
27, 28 See Cl, 2					20	3E3 cracked carbon	10	10	B8.031.04NB/A3E3			
29	200M electrolytic	6.4	—	C.426.AR/C200	21	3E3 cracked carbon	10	10	B8.031.04NB/A3E3			
					22	22E cracked carbon	10	10	B8.031.04NB/A22E			
					23	560E cracked carbon	10	10	B8.031.04NB/A560E			
					24	820E cracked carbon	10	10	B8.031.04NB/A820E			
					27	56E cracked carbon	10	10	B8.031.04NB/A56E			
					28	180K cracked carbon	10	10	B8.031.04NB/A180K			

LIWZ33T



L	V2	10, 23	11	12	13	14	15	16	17	18	19	20	21	22	23
C	5, 26	25	27	28	29	30	31	32	33	34	35	36	37	38	39
R	3	1	2	28, 29, 30	31	32	33	34	35	36	37	38	39	40	41