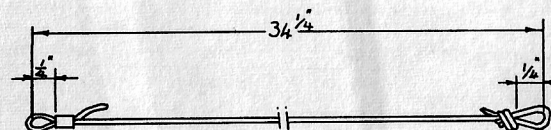
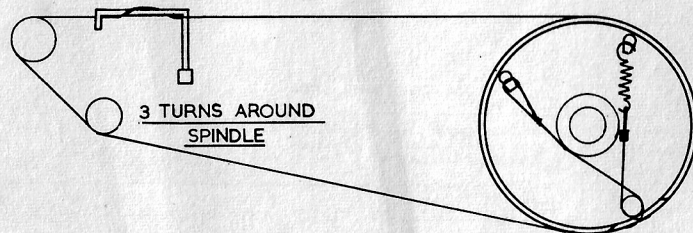


MECHANICAL PARTS LIST

Description		Code No.
Aerial and earth plug	Red	978/1x4AF
	Black	978/1x4AA
Battery holder plate assembly, positive end		A3.146.59
Compression spring for battery holder, negative end, 2x		A3.146.56
Cabinet		A3.156.80
Cabinet bottom plate (battery hatch)		A3.157.70
Cabinet back plate assembly		A3.146.75
Dial pointer		A3.146.72
Dial drive drum		P4.095.22/799
Dial drive pulley		P4.120.09/111
Dial cord tension spring		A3.647.14
Dial cord — 34 3/4" with 1/4" loops		
Dial scale		EN.852.97
Knob — on-off switch		P5.412.06/423
Knob — volume		P5.260.85/423
Knob — tuning		P5.260.84/423
Grub screw for knob		A3.324.16
Leaf spring — tuning capacitor to dial drum		A3.146.66
Screw for dial scale mounting, 2x		A3.812.92
Socket, aerial and earth, 2x		A3.821.27
Spring — dial drum retaining to cabinet		A3.147.03
Spring — tuning knob retaining		A8.818.38
Switch plate (fixed) for on-off switch		A3.146.70
Switch plate (moving) for on-off switch		A3.146.69



DRIVE CORD ASSEMBLY A3 147 66

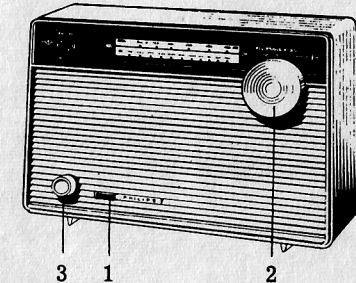
CORD K415 JB/1

BRASS TUBE WE49722

PHILIPS Service NOTES



Service release
December 1962



Model BOZ17T

PHILETTE TRANSISTOR CORDLESS MANTEL BROADCAST RADIO

Battery voltage.....	9 v. (6x950 Eveready cells)
Battery consumption.....	15mA (no signal)
Tuning range.....	517 - 1622 kc/s
Intermediate frequency.....	455 kc/s
Cabinet.....	Plastic mantel
Output.....	350mW
Loudspeaker.....	AD 2400 HZ (25 ohms)
Dimensions.....	11 3/16" x 7 1/16" x 4 9/16"

SEMI-CONDUCTOR FUNCTIONS

No.	Type	Function	No.	Type	Function
Transistor TR1	AF117	Frequency conv.	Transistor TR5	OC74	Class B power output
" TR2	AF117	IF amplifier	" TR6	OC74	
" TR3	AF117	IF amplifier	Diode X1	OA79	Limiting diode
" TR4	OC71	Audio driver	" X2	OA95	Demodulator and A. V. C. (in 3rd IFT can)

CONTROLS

1 Battery on-off switch 2 Tuning 3 Volume

REMOVAL OF PRINTED BOARD FROM CABINET

Remove battery compartment cover and remove batteries. Remove cabinet back—one screw.

Turn dial cursor to extreme low frequency position. Unsolder the copper shielding plate against the I.F. transformers from the cabinet mounted shield plate. Unsolder—three leads from the volume control potentiometer, one lead from the on/off switch and one lead from the speaker. Unclip the rod aerial assembly from its mounting bracket

Remove the four screws mounting the printed board to the cabinet. Lift out the board and the rod aerial assembly together.

When replacing the board, first put the tuning capacitor into full mesh position and the dial cursor to the extreme low frequency end of the dial scale to ensure correct coupling of the tuning capacitor to the dial drum.

Adjustment of Collector Current of TR5 and TR6	Insert millimeter across bridges located at measuring points A & B		Volts supply	Collector current TR5 TR6	Adjust with	Condition
Unsolder points a, b, c on printed board. (See printed board layout sheet)	TR5	b	9 v.	4mA=59° F 5mA=68° F 6mA=77° F 8mA=86° F	R20	No signal
	TR6	a			R18	
Before commencing alignment of the IF transformers screw out all cores except L15-L16 then proceed as follows:-						
ALIGNMENT	FREQUENCY	TRIM	OUTPUT	POINT ON DIAL		
Intermediate frequency circuits	455 kc/s via 33000pF to base TR2	L15 - L11-12 L13-14	Maximum	Tuning condenser open		
	455 kc/s via 33000pF to base TR1	L7 - L8 L9 - L10	Maximum	Tuning condenser open		
RF circuits broadcast	512 kc/s	L4 - L6 osc. L2 - L3 aer.	Maximum	Tuning condenser closed		
	1635 kc/s	C6 osc. C5 aer.	Maximum	Tuning condenser open		
Repeat the RF circuit alignment procedure as above.						

L																				
C	2	1	24	5233																
B	1			2			3		23					4	8		14	5	11	15

