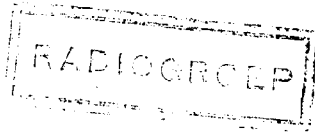


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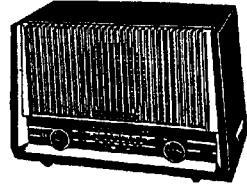
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# PHILIPS

## SERVICE NOTES

for the Receiver

### B2CA99U



1961

For AC and DC Mains Supply

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#### Wave ranges

MW : 185 - 580 m (1620 - 517 Kc/s)

SW : 16.75 - 63.2 m ( 18 - 4.75 Mc/s)

IF. : 452 Kc/s

#### Mains voltage

230 volts

#### Controls

From Left to Right

Mains switch and volume control

(Pull the knob to switch on the set)

Tuning control

Wave range switch

#### Consumption

50W Approx. at

230 volts 50 c/s

#### Loudspeaker

AD 3500 X (Z=5 ohms)

#### Valves

B1 : UCH 81

B2 : UBF 89

B3+B'3: UCL 82

B4 : UY 85

#### Dimensions

Length : 308 mm

Depth : 150 mm

Height : 204 mm

#### Bandwidth

The IF bandwidth 1:10 measured from the grid of B1 is about 12 Kc/s.

The overall bandwidth measured from the antenna socket is 10.5 Kc/s at 1000 Kc/s.

## B2CA99U

### TRIMMING THE RECEIVER

#### General

Set the volume control to maximum. Connect an output meter across the loudspeaker terminals through a trimming transformer. Work with the lowest possible signal level.

Two trimming points are provided on the dial. Before trimming RF coils check the setting of the pointer which should be against extreme left mark (Mark No. 1) with tuning condenser at minimum capacity position.

When trimming IF, keep the receiver on medium wave band and tuning condenser in minimum capacity position.

Unscrew the IF cores out as far as possible to begin with. Apply a signal of 452 Kc/s to the grid (g1) of valve B1 through a capacity of 33000 pF and successively trim S12, S11, S9 S10 and S11 for maximum output.

When trimming RF circuits, apply signal to antenna socket via a dummy aerial and follow the procedure as given below:

#### TRIMMING TABLE

Wave range Switch to	Pointer on trimming mark	Apply modulated signal frequency of	Trim for maximum output
SW	2	5.02 Mc/s	S6, S2
	1	18 Mc/s	C12, C4
MW	2	550 Kc/s	S8, S4
	1	1622 Kc/s	C13, C5

## B2CA99U

### LIST OF PARTS

When ordering, please quote the CODE NUMBER, DESCRIPTION of the part and TYPE NUMBER of the set.

Description		Code No.	Part No.	Code No.
Back plate . . . . .		CR 249 41	C13	907/6E-25E
Band switch . . . . .		CR 181 00		
Cabinet . . . . .		CR 000 62	C14 C15	AC 5306/32+32
Dial . . . . .		CR 217 60	C16	C296AG/A47A
Disc—M . . . . .		A3 577 03	C17	904/100E
Disc—S . . . . .		A3 577 04	C18	904/10K
Knob (volume+tuning) 2x . . . . .		CR 510 56	C19	904/4K7
Lever knob . . . . .		P4 380 92/801	C20	904/10K
Pointer . . . . .		A3 762 18	R1	B1 634 85
Spring for Lever knob . . . . .		A3 650 50	R2	
Tuning spindle . . . . .		CR 426 37	R3	902/39K
Part No.	Code No.	Part No.	Code No.	
S1	CR 110 06	C3	C296AA/A22K	R4
S2				R5
S3	A3 125 35	C4	907/6E-25E	R6
S4				R7
S5	CR 120 07	C5	907/6E-25E	R8
S6				R9
S7	CR 110 05	C6	904/33E	R10
S8				R11
S9	CR 120 06	C7	49 001 61	R12
S10		C8		R13
S11	CR 120 06	C9	904/10K	R14
S12				
S13	CR 151 27	C10	904/470E	
S14				
S15	AD 3500X	C11	904/220E	
C1	904/1K	C12	907/1.5E-12.5E	
C2	904/56E			

TRIMMING DATA

SW — 19 Mc/s (c12, c4) — 5.02 Mc/s (s5, s2).  
 MW — 1622 Kc/s (c13, c5) — 550 Kc/s (s3, s4).

DIAL DRIVE

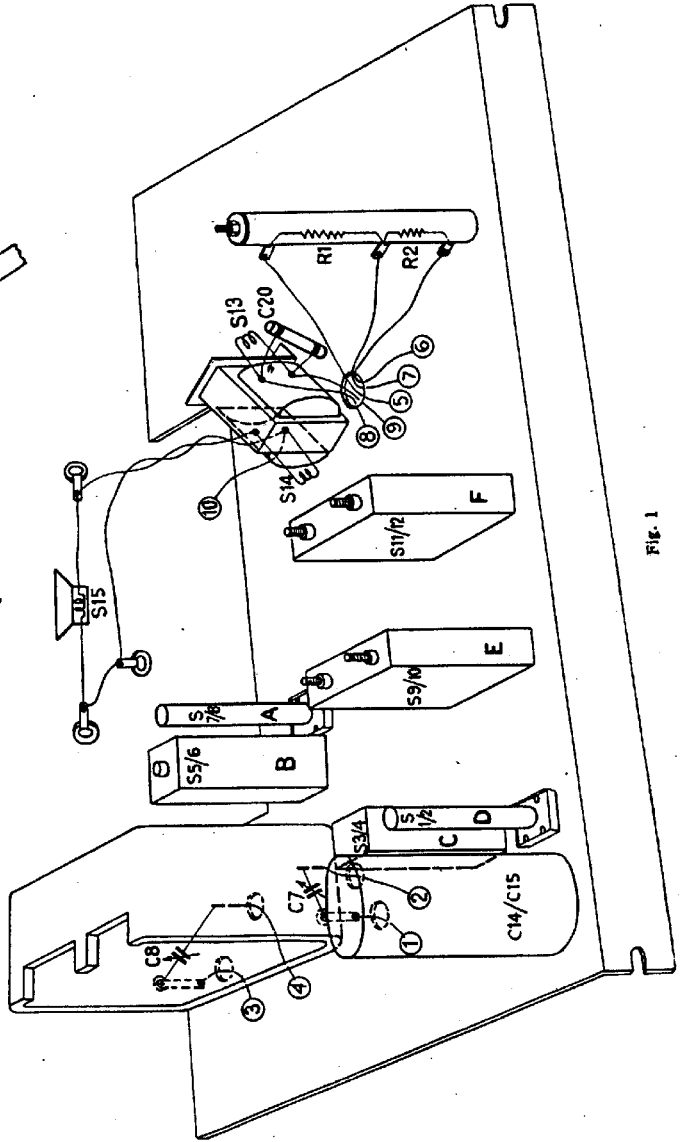
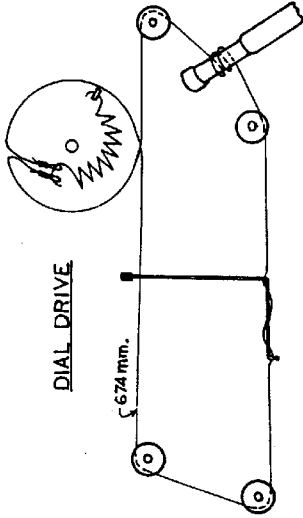


Fig. 1

S:							F	E A		
C:	9	18,19		17			16	3,13,10,12	11	
R:	10,6		12	11,14,13		9	7	B		5

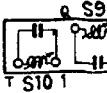
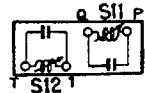
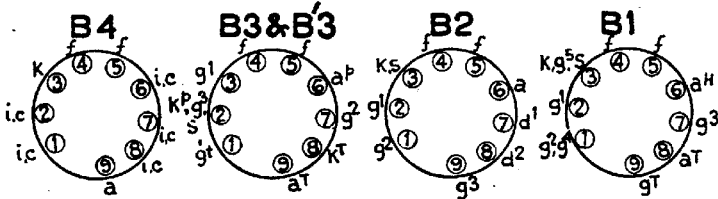
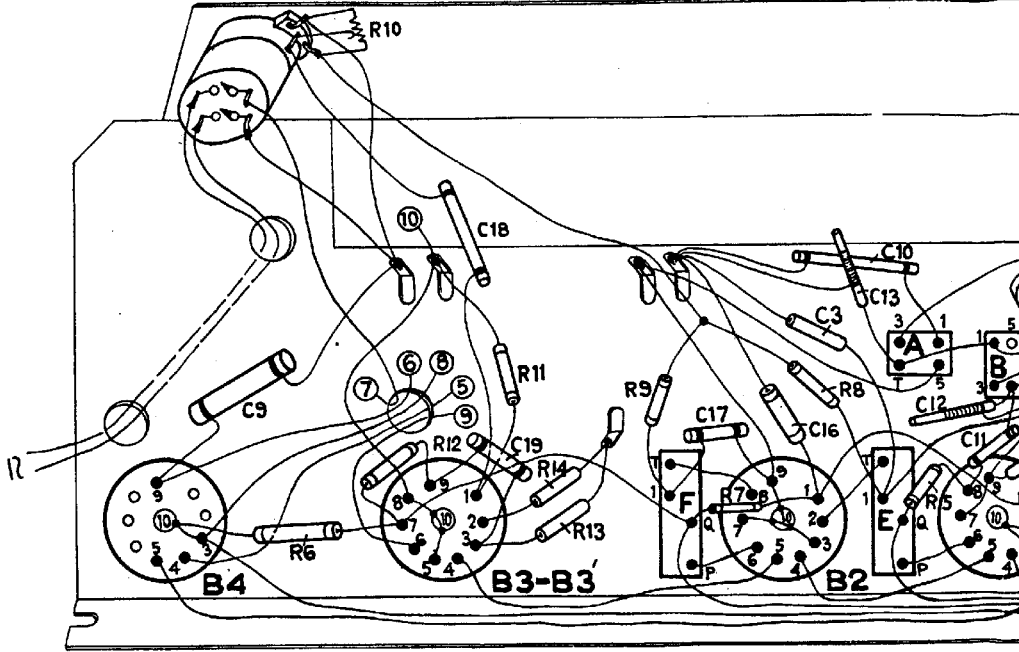


Fig. 2

F

E

		F		E	A	B	C, D
18, 19	17	16	3, 13, 10, 12	11			5, 1, 6, 2, 4, 15, 14
6	12	11, 14, 13	9	7	8	5	4, 3

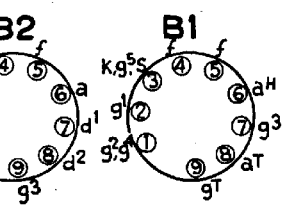
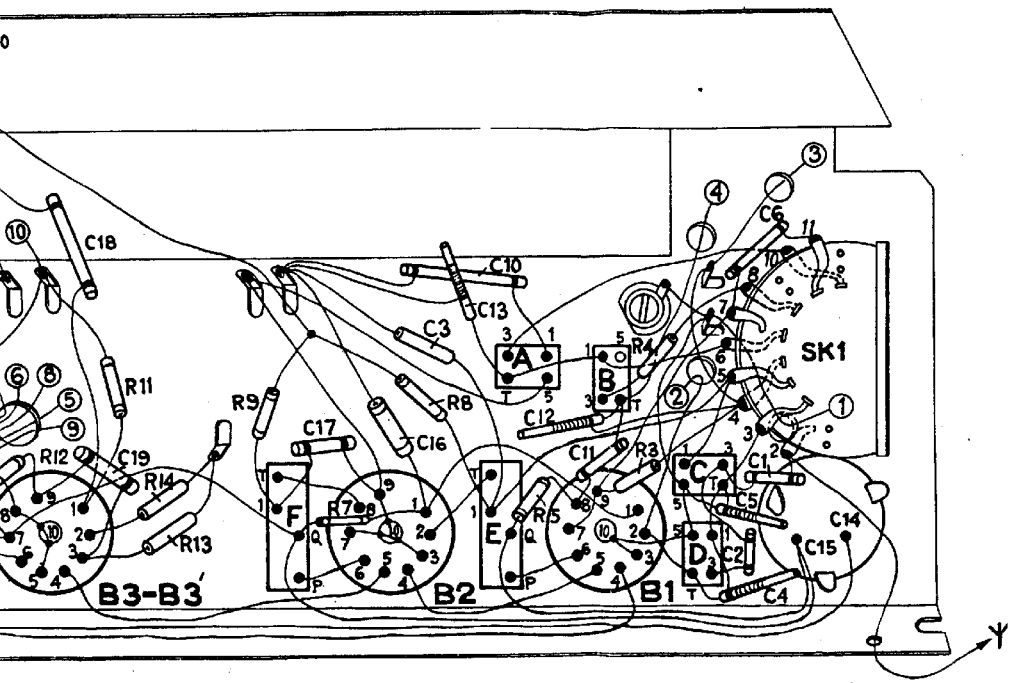
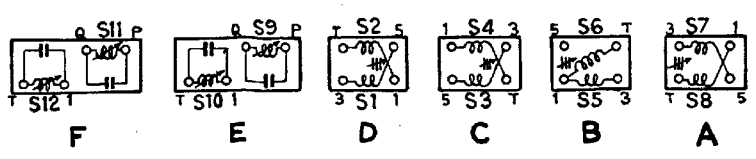
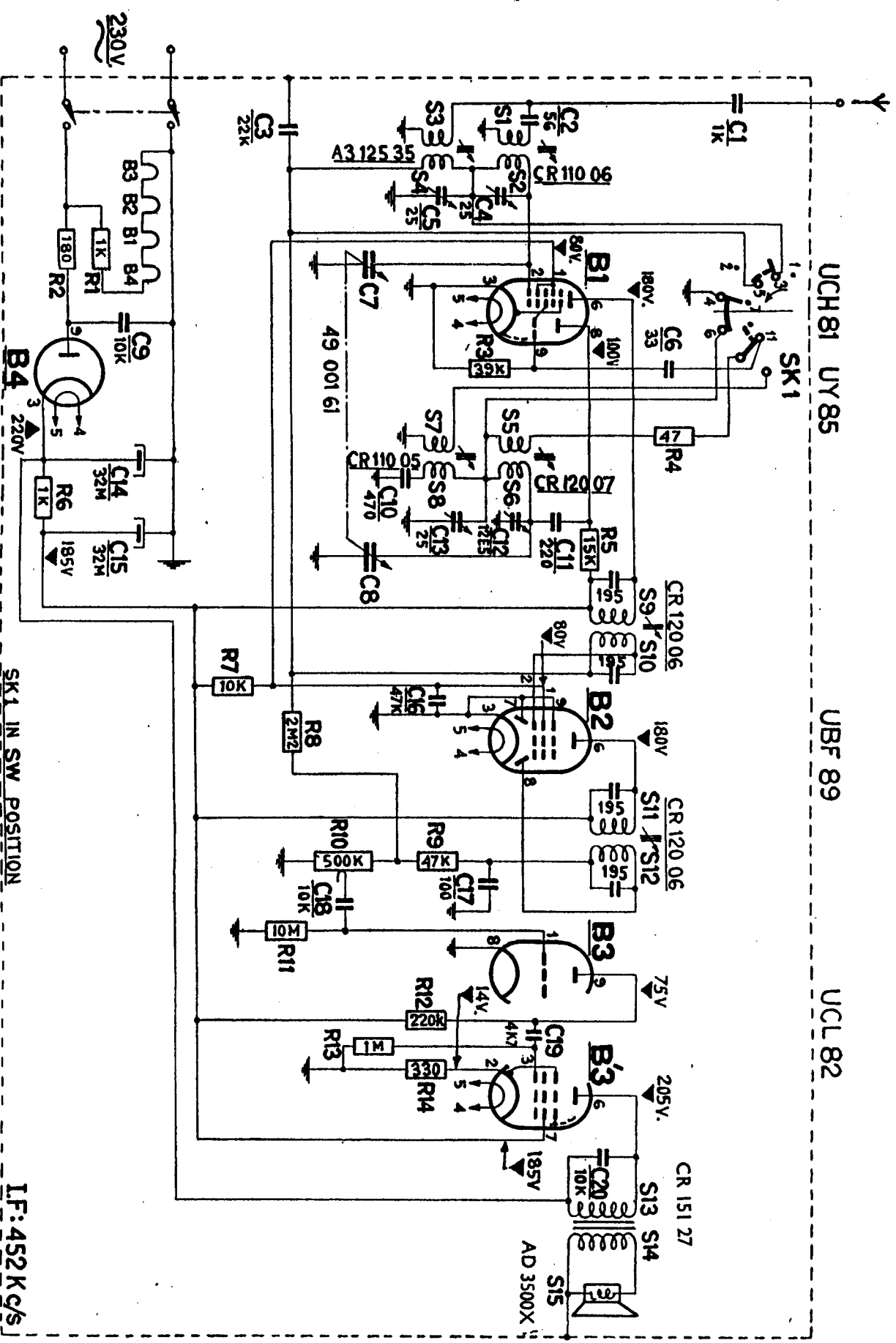


Fig. 2





UCH81 UY85

UBF 89

UCL 82

SK1 IN SW POSITION

LF: 452 K c/s

Fig. 3

B2CA99U