

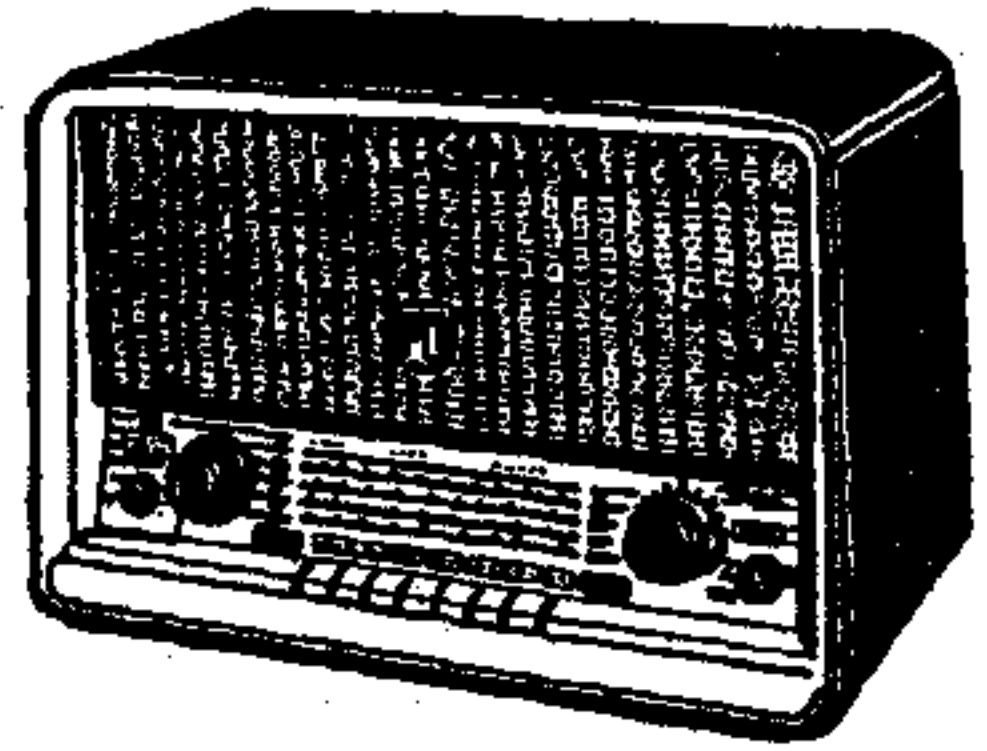
# PHILIPS

v. Historie v/d Radio

ARCHIEF  
DOCUMENTATIEDIENST  
NVHR

# Service

## RADIO B6CA65A



Year of release 1957

For A. C. Mains Supply

### Waveranges

M. W. : 185 - 580 m (1622 - 517 Kc/s)  
 S. W. 4 : 59 - 187 m ( 5.1 - 1.6 Mc/s)  
 S. W. 3 : 25 - 60 m ( 12 - 5 Mc/s)  
 S. W. 2 : 16.75 - 25.64 m ( 17.9 - 11.7 Mc/s)  
 S. W. 1 : 11.4 - 16.94 m ( 26.2 - 17.7 Mc/s)

### Controls (Left to right):

Bass  
 Volume  
 Press Buttons : on/off with muting switch—PU—  
 MW—SW4—SW3—SW2—SW1  
 Ferroceptor Orientation with switch  
 Tuning  
 Treble

### Valves and Dial Lamps

B1 : EF 89                      B6 : UL 41  
 B2 : ECH 81                    B7 : EZ 80  
 B3 : EBF 80                    B8 : EM 80  
 B4 : EBC 81                    L1 : 8024N-91  
 B5 : EL 84                      L2 :

### Mains Voltages

110, 180, 205 and 230V - 50 c/s

### Consumption

62 watts approx. at 230V

### Loudspeakers

AD 3700 A and AD 3500 AM—(Z—800Ω)

### Built in Aerials

A loop aerial is used in short wave ranges. This gets disconnected when using an outdoor aerial. When Ferroceptor Orientation is controlled in MW wave the outdoor aerial gets disconnected.

### TRIMMING THE RECEIVER :-

#### General

Set the volume control to maximum and tone control to minimum treble position. Connect an output meter to the extension loudspeaker socket. Work with lowest possible signal level.

Before trimming the R.F. circuits check the setting of the pointer which should be against extreme left mark (2) with tuning condenser at minimum capacity position.

#### IF alignment

Switch on the set to MW with tuning capacitor at minimum capacity. Unscrew the cores of the IF coils as far as possible. Apply a signal of 452 Kc/s via a capacitor of 33,000 pF to g1 of B2 and trim successively the coils S31/30, S28/29 and S30 for maximum output.

For RF circuits proceed trimming at points 1 and 2 starting with MW as given in the trimming data—see diagram. Apply signal to antenna socket via a dummy aerial for M.W. and to g1 of B1 via a capacitor of 33,000 pF for SW4, 3, 2 and 1. Again apply signal to antenna socket via a dummy aerial for SW3 and SW1.

#### NOTE :-

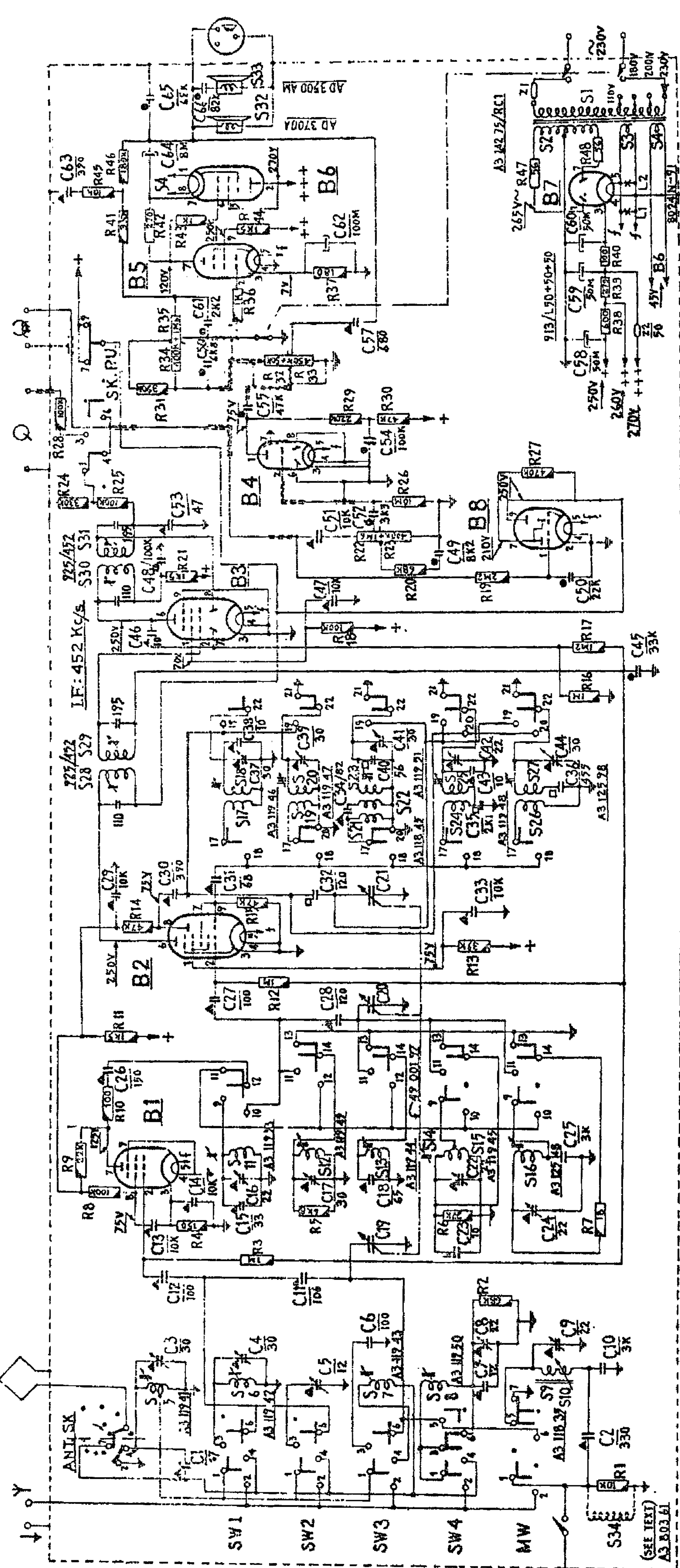
Signals are applied to two points (x-y), about 10 cms apart, on the front side of the chassis. The coupling provided by the heavy current flowing through the chassis is sufficient to enable one to trim the R.F. circuits with the loop in the circuit.

*Instability : With volume control at maximum, some times be experienced on M.W. band. This may be eliminated by replacing R1 with S34.*

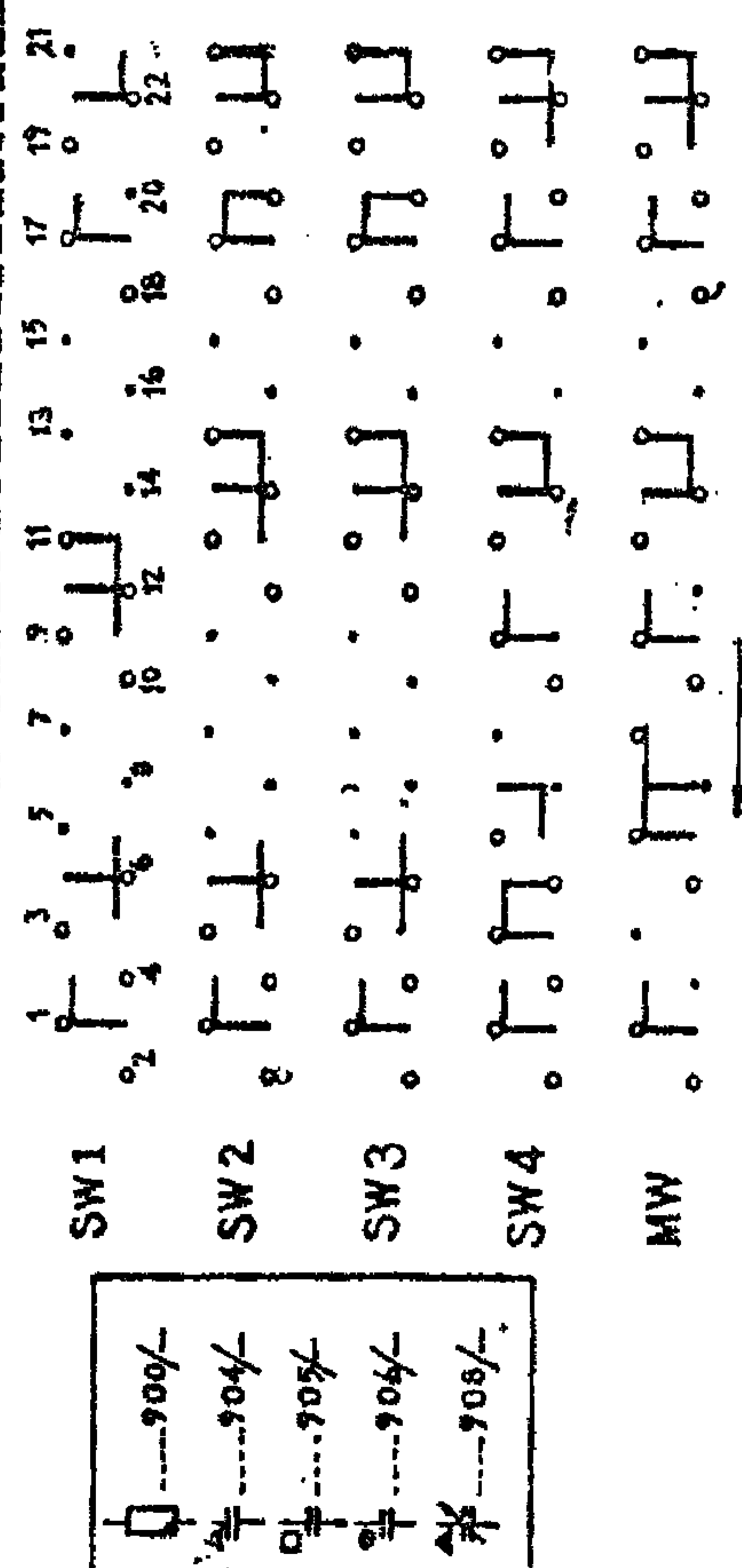
Description	Code No.	Description	Code No.
Back plate . . . . .	A3 258 23	Pointer . . . . .	A3 759 27
Cabinet . . . . .	A3 770 57	Press Keys . . . . .	A3 417 75
Cap for Mains switch . . . . .	P5 280 25/08	Strip—ornamental SWITCH—	A3 765 59
Dial . . . . .	A3 809 14	Ferroceptor . . . . .	A3 186 83
Knob—Tone 2x . . . . .	A3 769 70	Mains . . . . .	A3 182 78
Knob—Big 2x . . . . .	A3 769 44	P.U. . . . .	A3 186 98
Knob—Small . . . . .	A3 769 42	Window—Tuning indicator . . . . .	A3 759 11
Lamp Holder . . . . .	A3 755 19		
Part No.	Code No.	Part No.	Code No.
C6	907/20E—100E	R38	49 379 78
C10	B1 657 67		(2 × in parallel)
C25	B1 657 67	R39	B1 636 35
C62	910/C100	R40	B1 636 25
C64	AC5127 8	R42	B1 636 36
R22	916/G1.400K	R47	B1 636 42
R23		R48	B1 636 42
R32	B1 639 49	Z1	924/T125
R33		Z2	974/50
R34	B1 639 48		
R35			

Single & double card documentations on thick card are available separately at 0-50 and Rs.1/- respectively.

"For efficient and quality service, use original spare parts, available with all Philips Dealers"

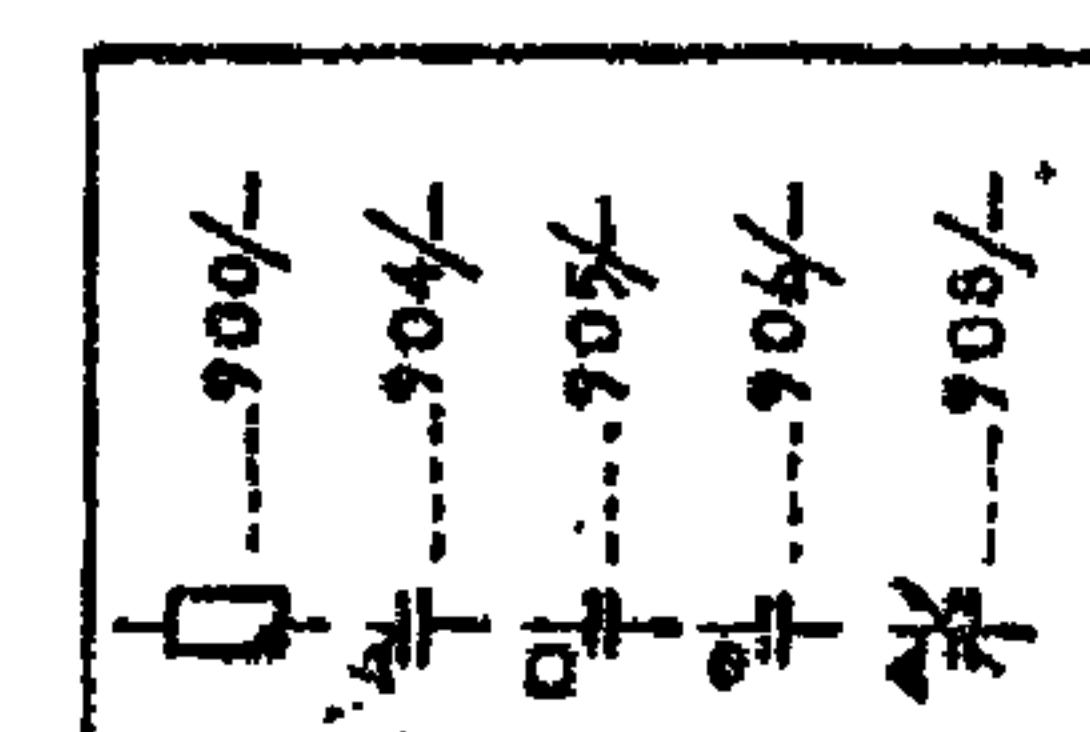


1. COMPONENTS UNDERLINED SHOULD BE TRIMMED WITH SIGNAL FED AT ANT. SOCKET.
2. COMPONENTS UNDERSCRIBED X-Y SHOULD BE TRIMMED WITH SIGNAL FED AT TWO POINTS ON THE CHASSIS 10 CM. APART.
3. ALL OTHER COMPONENTS ARE TRIMMED WITH SIGNAL FED TO GRID OF B1.

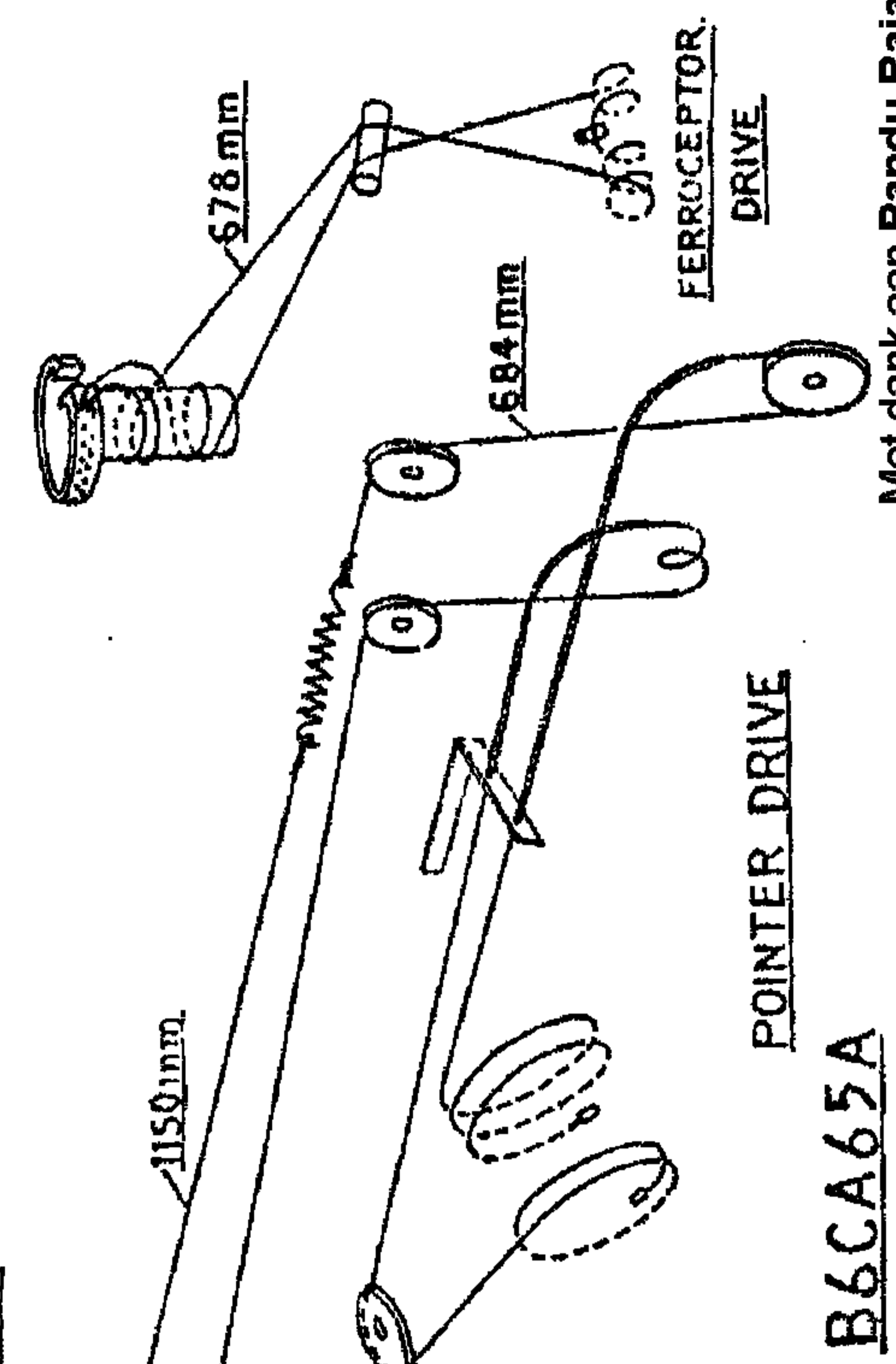


TRIMMING DATA

MW	1630 Kc/s	(C44, C24, C9)	550 Kc/s	(S27, S16, S9-S10)
SW4	5-15 Mc/s	(C42, C22, C8)	1-72 Mc/s	(S25, S14-S15, S8)
SW3	12-1 Mc/s	(C41)	5-26 Mc/s	(S23, S13, S7)
SW2	18 Mc/s	(C39, C17, X-Y)	11-75 Mc/s	(S20, S12)
SW1	26-4 Mc/s	(C37, C16, X-Y)	17-8 Mc/s	(S18, S11, S6)
SW3			5-26 Mc/s	(S5)
SW1	26-4 Mc/s	(C3)		

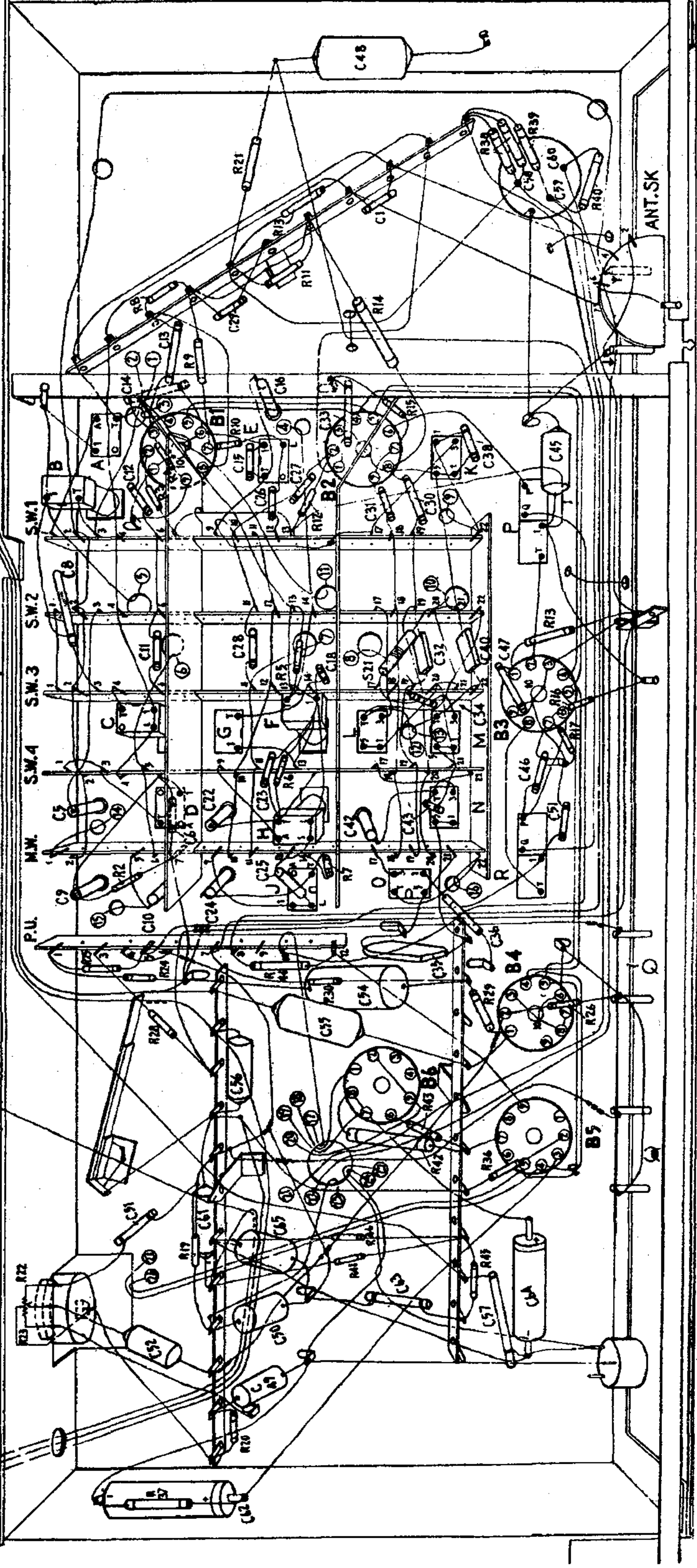


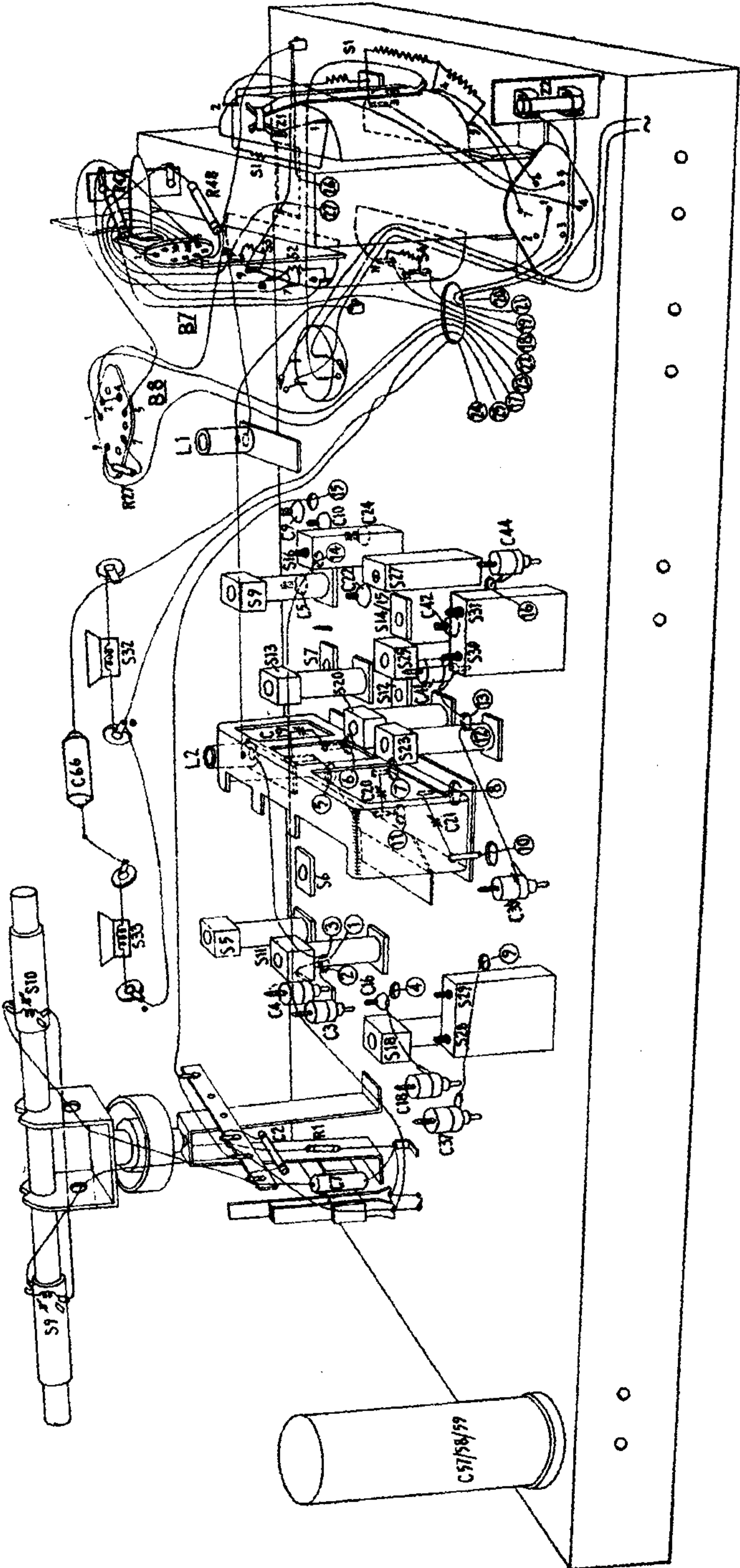
(SEE TEXT)  
A3 B03.61



POINTER DRIVE  
FERRORECEPTOR DRIVE  
B6CA65A  
Met dank aan Pandu Rajar

S:	O.J.K.	N.M.D.	M.L.F.G.C. 21	P.B.K.A.E.
C:	42	49	52, 57, 59, 63, 64	51, 61, 69
RE:	31	34, 37, 38	70	23, 22, 41, 49, 46, 19
	56	75	54	35, 36
	28, 29, 26, 30, 24, 25, 44	2	7	6, 17, 16
	36, 47, 43			6, 47, 45, 51, 52, 73, 46
	34, 47, 16			34, 47, 16
	11, 28, 32, 40			8
	31, 30, 14, 12, 27, 15, 36, 35			14, 16
	13			9
	21			13
	40, 38, 39			32
	48			1
	58, 59, 60			1





TOP VIEW

B6CA65A