ASSEMBLY INSTRUCTIONS

FOR THE

TRIO "SIGNAMAX" PRESELECTOR,

(TYPE SM-1)

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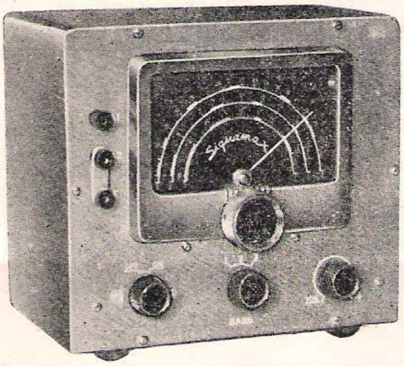
THE TRIO SIGNAMAX PRESELECTOR, TYPE SM-1



I. GENERAL

Attention amateurs, short wave listeners and commercial station operators! We proudly present an attractive, low-cost and easily constructed "Signamax" preselector. When used with your present communications receiver, you'll receive a better quality signal, with much less bothersome set noise and interference. This unit can be cut in or out, instantaneously, without changing wires or waiting for tube warm-up.

The coverage is from 3.5–30 MC, in three bands—3.5–7.5 MC; 7.0—15.0 MC; 14.0–30.0 MC. Front panel controls include: ON-OFF switch; GAIN; BAND CHANGE; and a VERNIER TYPE DIAL. The main set provides the power.

II. ASSEMBLY & WIRING

The main r.f. coil section and variable capacitor, the ON-OFF switch and the GAIN control are factory mounted. Check against Figs. 1, 2, 3, 4 and 5 regarding the placement of additional parts. Fig. 4A illustrates the method used to ground the tuning capacitor to the chassis. The ON-OFF switch wiring is showh in Fig. 4B. A complete schematic will be found in Fig. 7.

Check wiring carefully. If desirous, mount a 4-contact tube socket on your receiver and tap the supply voltage to it. If not, run leads from the receiver and connect these to the proper pins of the preselector power cable. Turn the set ON, and observe the lighted tubes.

III. ALIGNMENT

Set up the equipment, as shown in Fig. 6. Turn power on and allow sufficient time for warm-up. Assuming that the communications receiver is aligned correctly, proceed as follows:

R. F. ALIGNMENT OF SM-1 PRESELECTOR

Band	Step	Freq.	Set S. G.	Set RX	Set Preselector	1st R. F. Adj.	2nd R. F. Adj.	Note
1	1	4.0 MC	4.0 MC	4.0 MC	4.0 MC	Iron Core	Iron Core	Adjust steps 1 & 2 until both ends of the band track
2	2	7.0 MC	7.0 MC	7.0 MC	7.0 MC	Trimmer	Trimmer	
2	3	7.5 MC	7.5 MC	7.5 MC	7.5 MC	Iron Core	Iron Core	Adjust 3 & 4 as 1 & 2
	4	14.0 MC	14.0 MC	14.0 MC	14.0 MC	Trimmer	Trimmer	
3	5	16.0 MC	16.0 MC	16.0 MC	16.0 MC	Iron Core	Iron Core	Adjust 5 & 6 as 1 & 2
	6	28.0 MC	28.0 MC	28.0 MC	28.0 MC	Trimmer	Trimmer	

IV. OPERATION

Connect the power cord from the preselector to the receiver. If an inverted L antenna is being used, connect this lead to A_1 on the front panel. A_2 and E should be jumpered and a ground wire attached here. The output of the preselector is connected thus—1 to the Antenna Post on the Receiver and 2 and 3 (which are jumpered in this case) to the ground post on the receiver.

However, if a doublet is employed, remove the jumpers between A_2 and E and 2 and 3 on the preselector. Connect doublet between A_1 and A_2, and ground E. The output (1 & 2) is connected to the receiver doublet terminals, and the ground (3) to the ground post.

Select the desired frequency and track the preselector with the receiver. Rock till the signal is clear. Govern the amplification of the preselector by the GAIN control. To transfer the antenna to the receiver, simply turn the preselector ON-OFF control to OFF.

NOTE : Whenever the communications set is on, filament voltage is applied to the preselector. Only the B+ is broken by the ON-OFF switch.

PARTS LIST FOR THE TRIO SM-1 PRESELECTOR

Q'ty	Description
1	KP-3 R.F. Coil Assembly
1	180 MMF 2 gang variable capacitor
1	Chassis
1	Front Panel
1	Case
1	Dial Assembly (Signamax)
3	Knobs
1	10K 1W Potentiometer
1	4P 2-position Rotary Switch
3	Binding Posts
2	7-pin miniature sockets
2	6BA6 tubes
1	4-pin tube plug
5	.01/600V Capacitors
2	100pF Mica capacitors
2	500K ohm ¼W
1	10K ohm 1W
1	1K ohm 1W
1	1K ohm ¼W
1	400 ohm ¼W
12 ft.	Wire
	Hardware

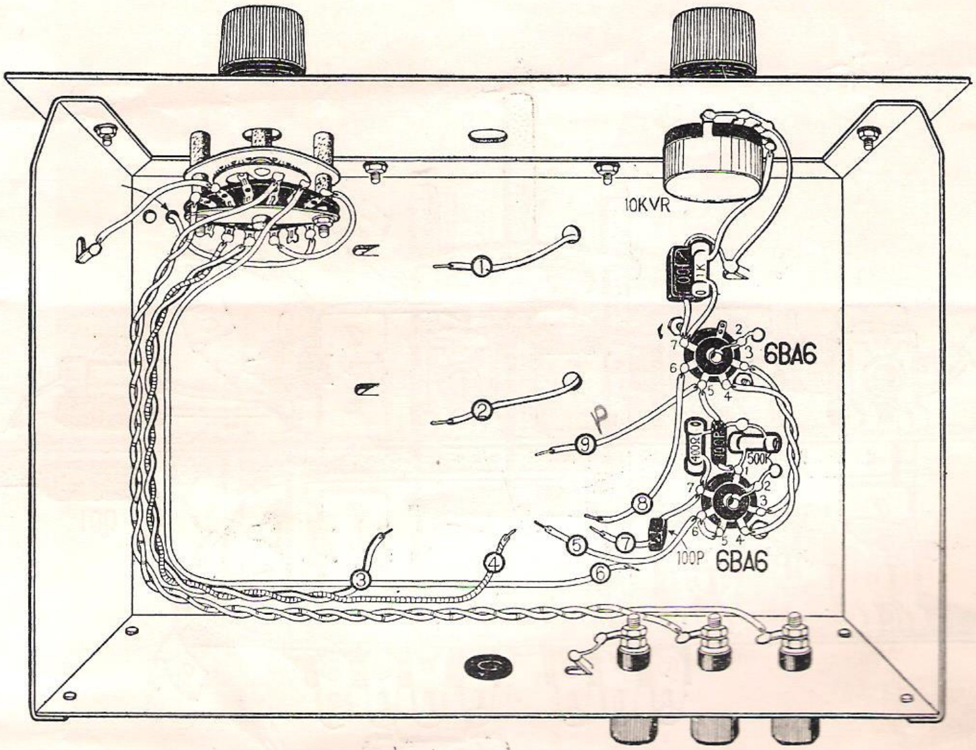


Fig. 1 Lead dress and mounting of components

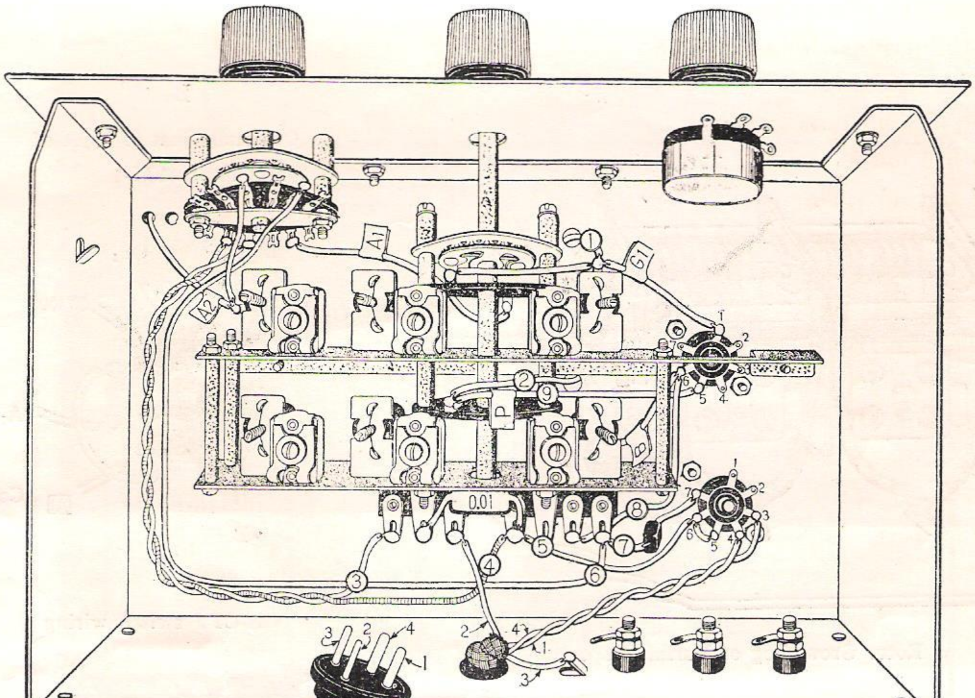


Fig. 2 Connections of R.F. Coil Unit and Power Cord

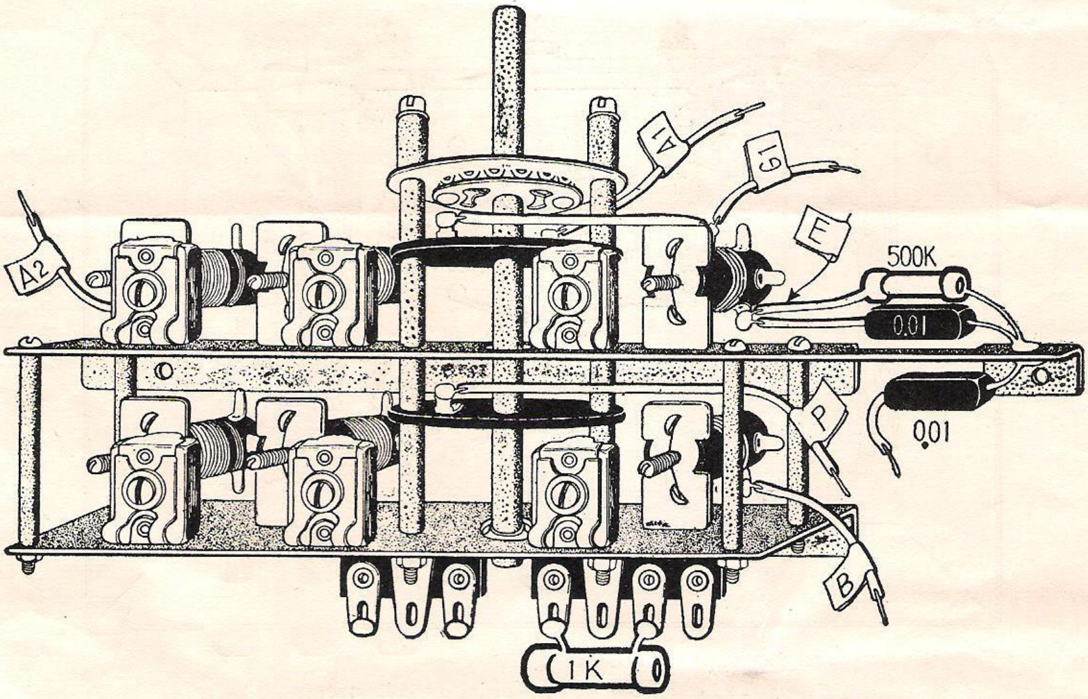
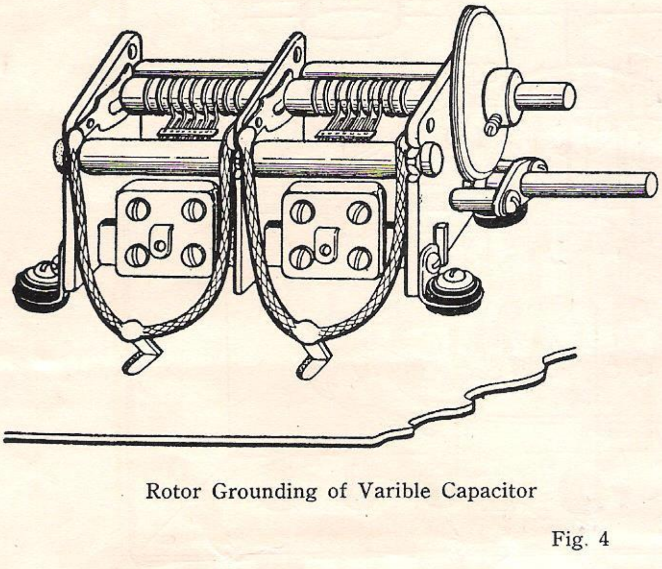


Fig. 3 The R.F. Coil Assembly

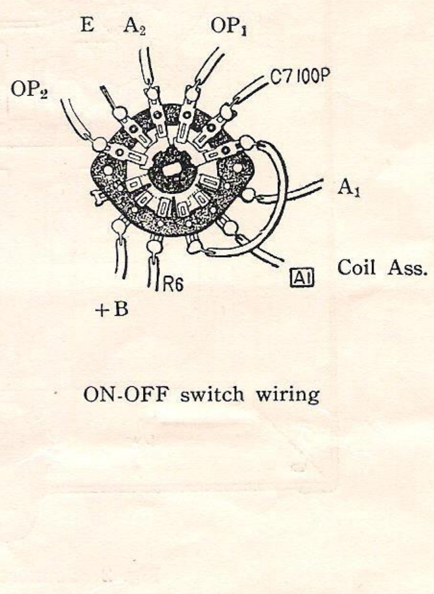
A



Rotor Grounding of Varible Capacitor

B

Originally just to right of parts list re SM-1



ON-OFF switch wiring

Fig. 4

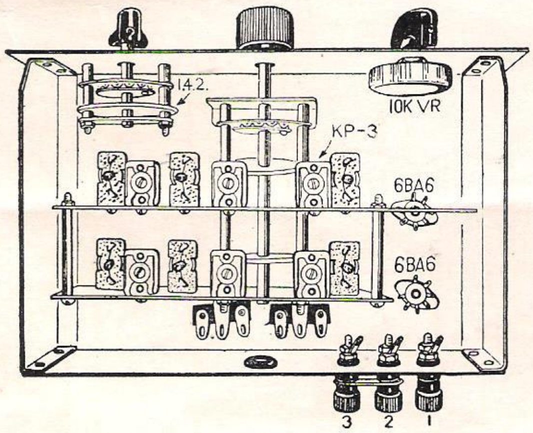


Fig. 5 General Layout

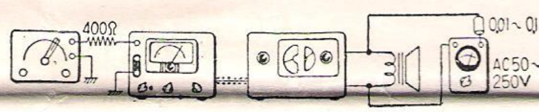


Fig. 6 Alignment Set-up

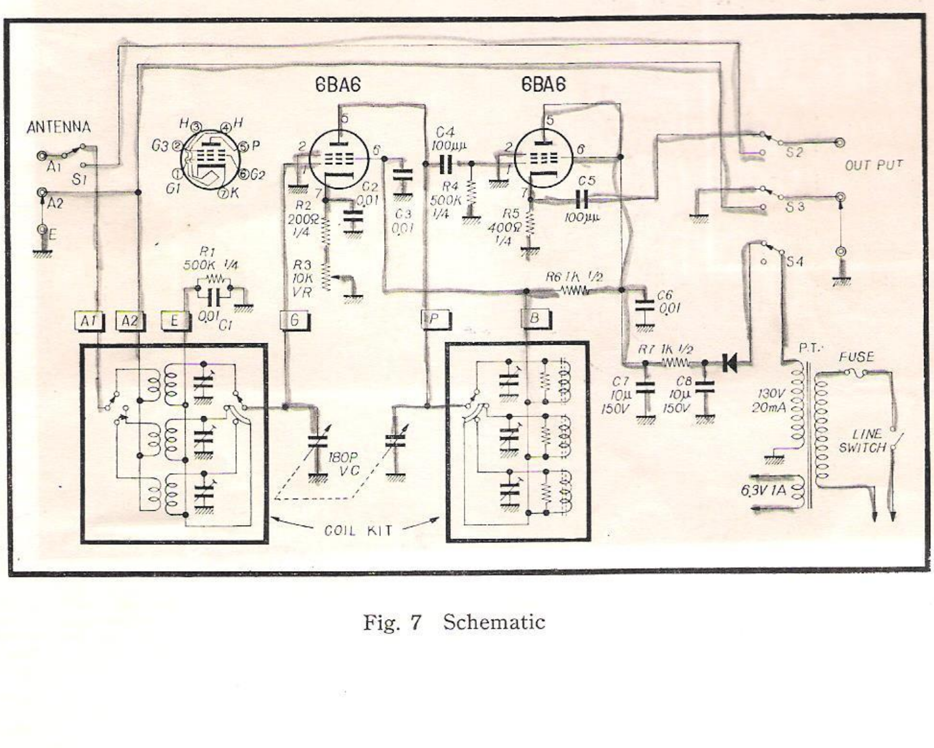
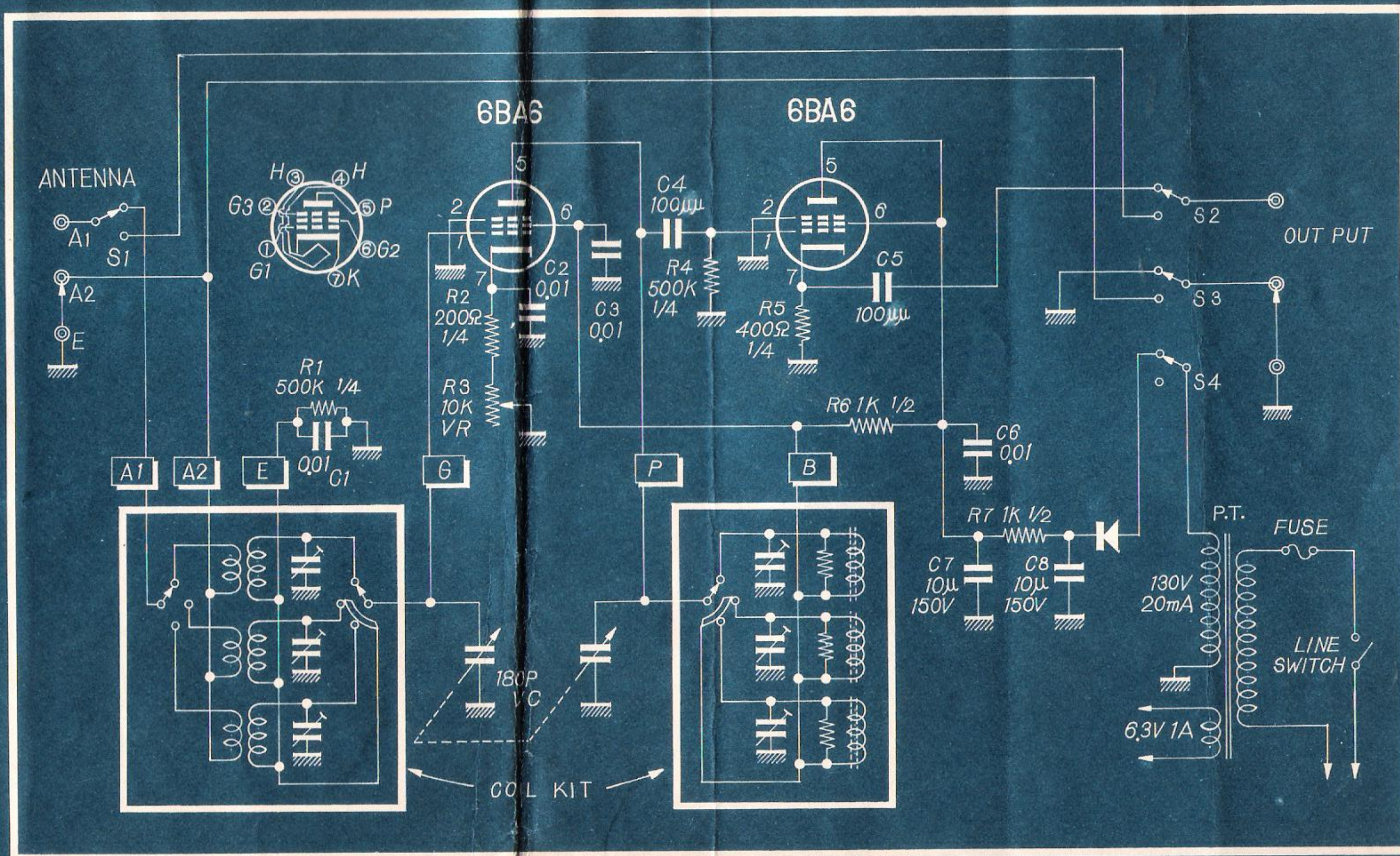


Fig. 7 Schematic


6BA6
6BA6
ANTENNA
A1
S1
A2
E
H3 4H
G3 2 5P
1 6G2
G1 7K
C4 100μμ
R4 500K 1/4
C2 0.01
C3 0.01
R2 200Ω 1/4
R3 10K VR
R5 400Ω 1/4
C5 100μμ
R1 500K 1/4
0.01 C1
S2
OUT PUT
S3
S4
R6 1K 1/2
C6 0.01
A1
A2
E
G
P
B
R7 1K 1/2
C7 10μ 150V
C8 10μ 150V
P.T.
FUSE
130V 20mA
LINE SWITCH
6.3V 1A
180P VC
COIL KIT