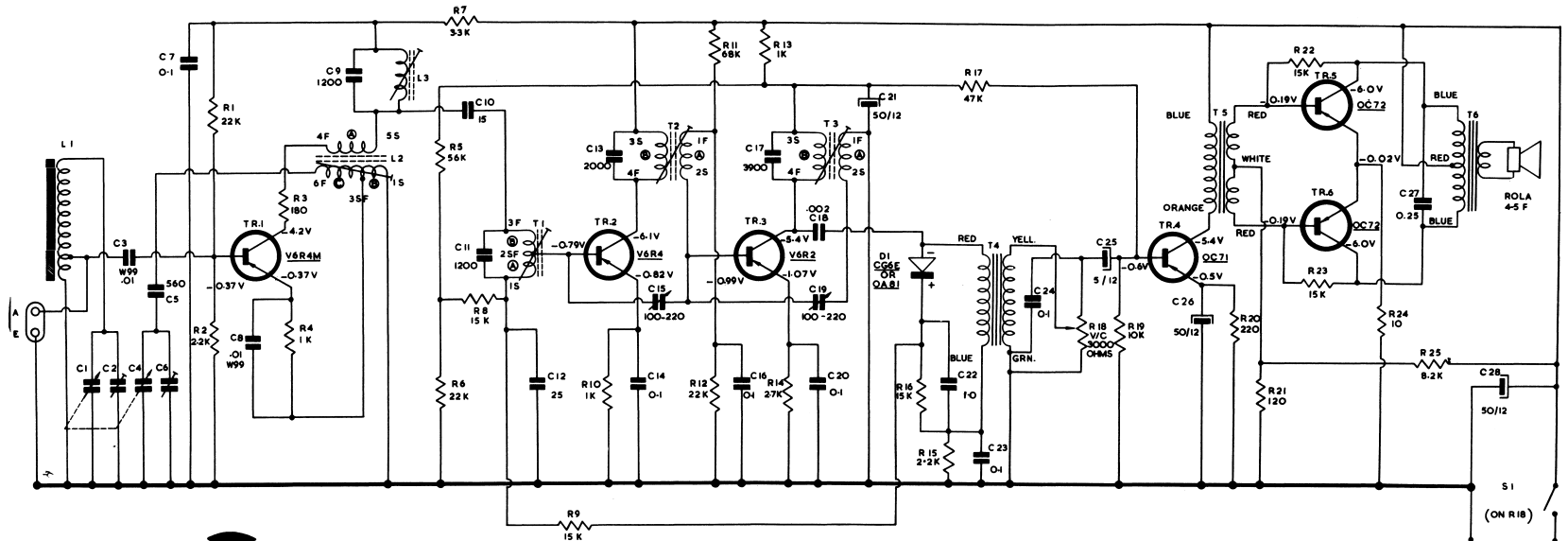


# TRANSISTOR PORTABLE MODEL P 123 BQ



**TRANSISTOR**

### TRIMMING PROCEDURE

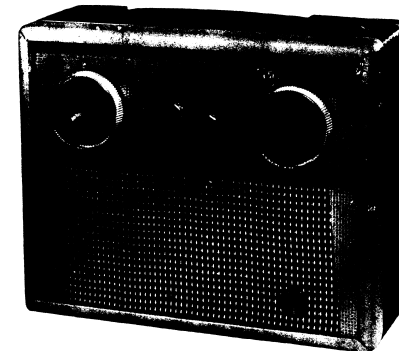
Apply signal as below	Set receiver to	Adjust in order for maximum output
(1) 325 Kcs, capacitor input junction of loop tap and C3.	L.F. end of band (i.e. Gang fully meshed).	Cores of T3, T2, T1 and L3. Repeat for max.
(2) As No. 1 but 600 Kcs, series generator feed — capacitor input and 400 ohm resistor.	Set dial to 600 Kcs.	Core of L2.
(3) As No. 2 but 1500 Kcs.	Set dial to 1500 Kcs.	Trimmer C6.
(4) Repeat 2 and 3 until calibration is correct.		
(5) Replace receiver in case, connect output of generator to loop of wire and place loop about 1 foot from one end of ferrite rod antenna.		
(6) 600 Kcs from generator to loop.	Set dial to 600 Kcs.	L1 on ferrite rod.
(7) 1500 Kcs from generator to loop.	Set dial to 1500 Kcs.	Trimmer C2.
(8) Repeat 6 and 7 then seal L1 in position on the ferrite rod.		

NOTE:

ALL RESISTANCE VALUES IN OHMS UNLESS INDICATED



KEY TO TRANSISTORS



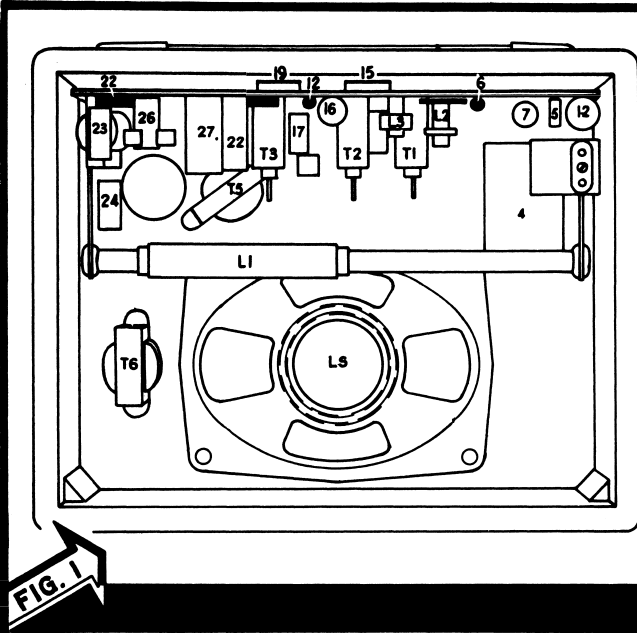


FIG. 1

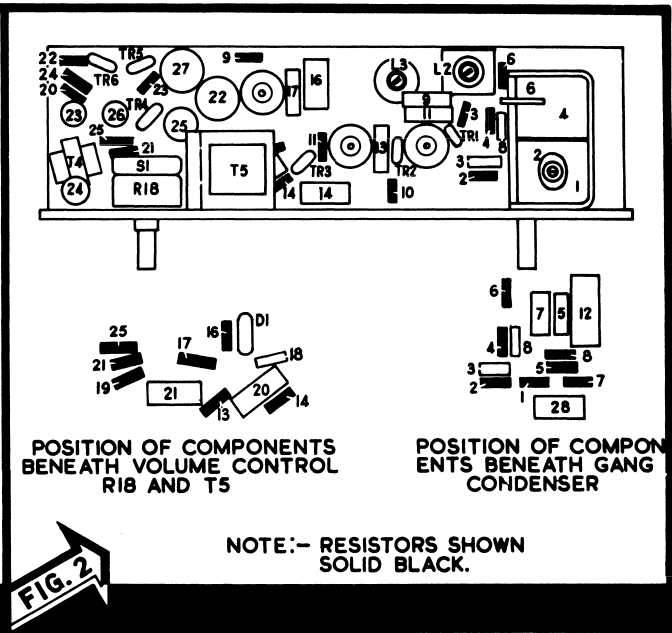


FIG. 2

P123BQ

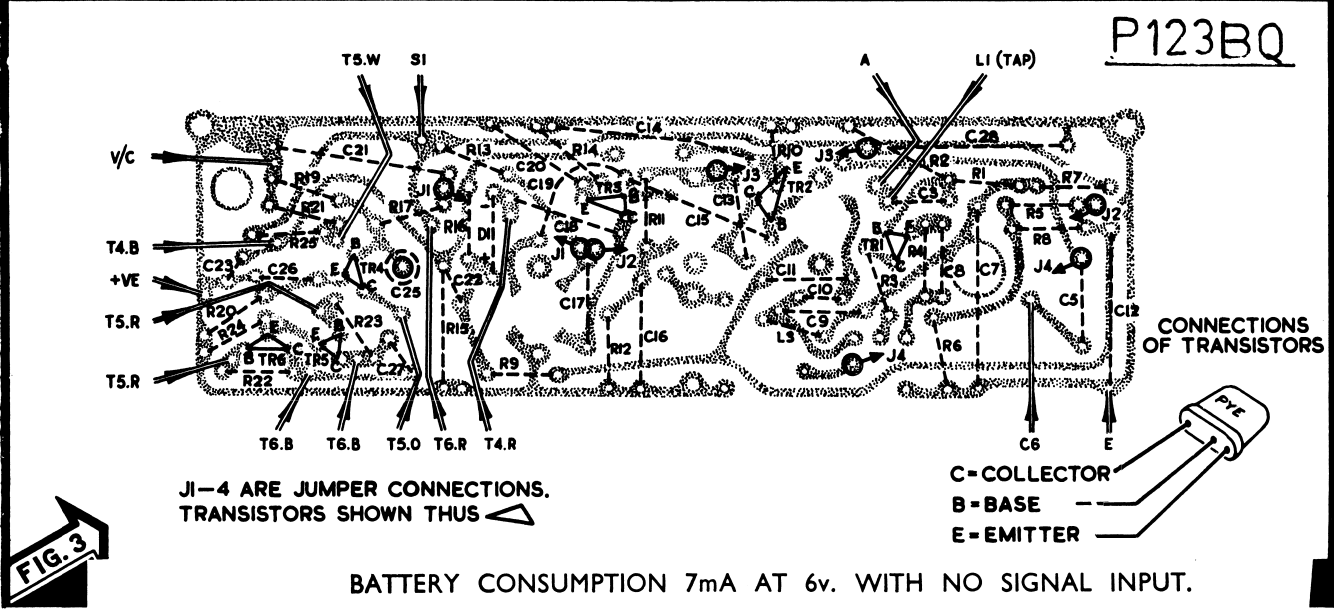


FIG. 3

### CIRCUIT ANALYSIS

Code	Transistor Function	Type	Ref. No.	Ec	Ic	Eb	Ee	Transistor Alternatives			
								R.C.A.	G.T.C.	Mullard	Ediswan
TR1	Frequency Changer	V6/R4M	865208	-4.20	0.5mA	-0.37	-0.37	2N219	G7761R	OC45	XA102
TR2	1st I.F. Amplifier	V6/R4	865206	-6.00	0.7mA	-0.79	-0.82	2N218	G7760R	OC45	XA101
TR3	2nd I.F. Amplifier	V6/R2	865200	-5.45	0.45mA	-0.99	-1.07	2N218	G7759R	OC45	XA101
TR4	A.F. Amplifier ..	V10/50B	865006	-5.45	1.9mA	-0.60	-0.5	2N217		OC71	
TR5	Output .. ..	V10/30A	865004	-6.00	1.2mA	-0.19	-0.022	2N270		OC72	
TR6	Output .. ..	V10/30A	865004	-6.00	1.2mA	-0.19	-0.022	2N270		OC72	

Note: All measurements taken with no signal input. Gang fully meshed.  
 Measurements taken with an Avometer Model 8 instrument which has a resistance of 20,000 ohms per volt.