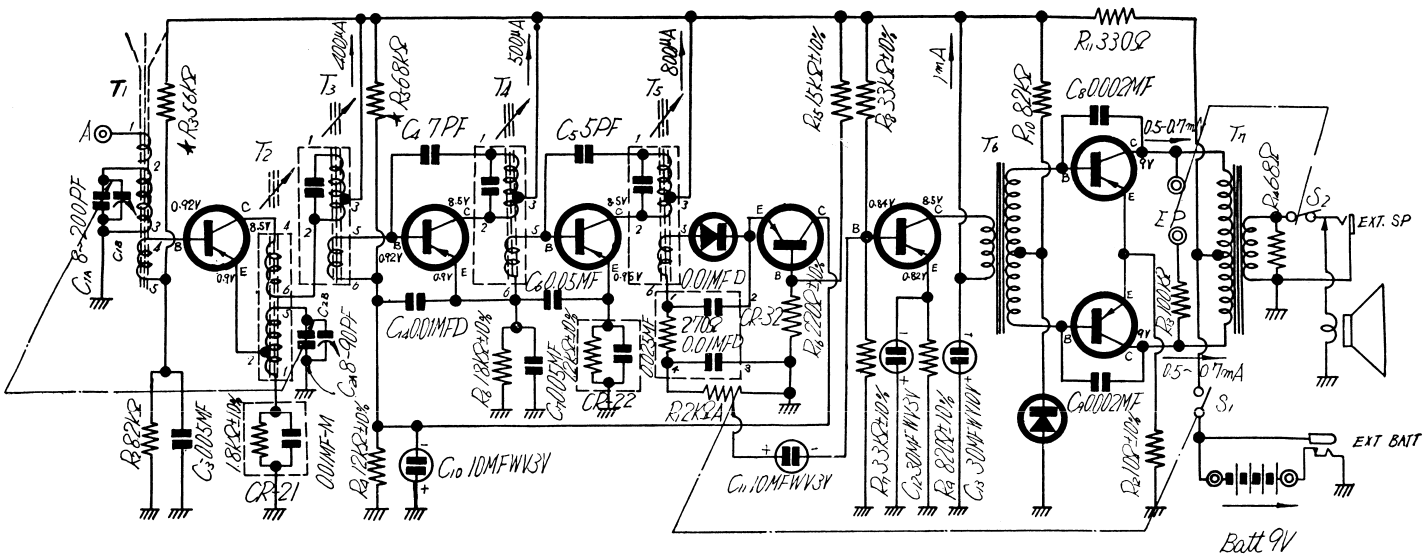
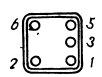
TR-1	TR-2	TR-3	TR-4	TR-5	TR-6 & TR-7
MC101	OC45	OC45	OC71	OC71	2OC72
CONV	1ST IF AMP	2ND IF AMP	A.G.C. AMP	AF AMP	POWER OUTPUT



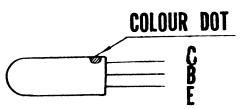
T1
FERRITE ROD ANTENNA COIL

T2
OSC COIL

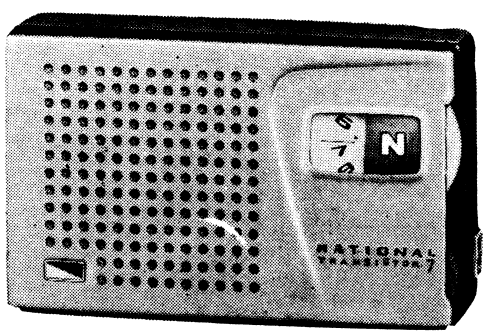


T3 T4 & T5
T3
IF TRANS
(BOTTOM VIEW)

COUPLED
CAPACAITORS & RESISTOR



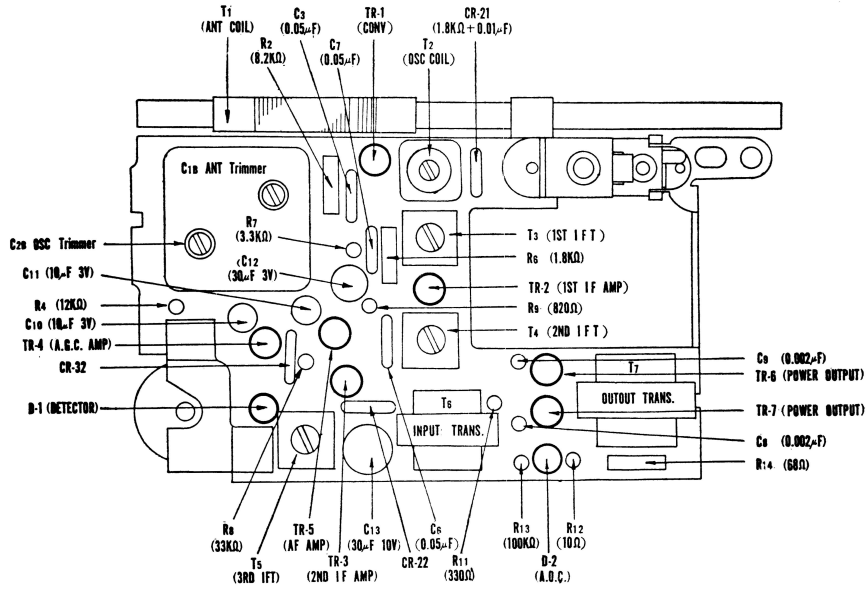
TRANSISTOR

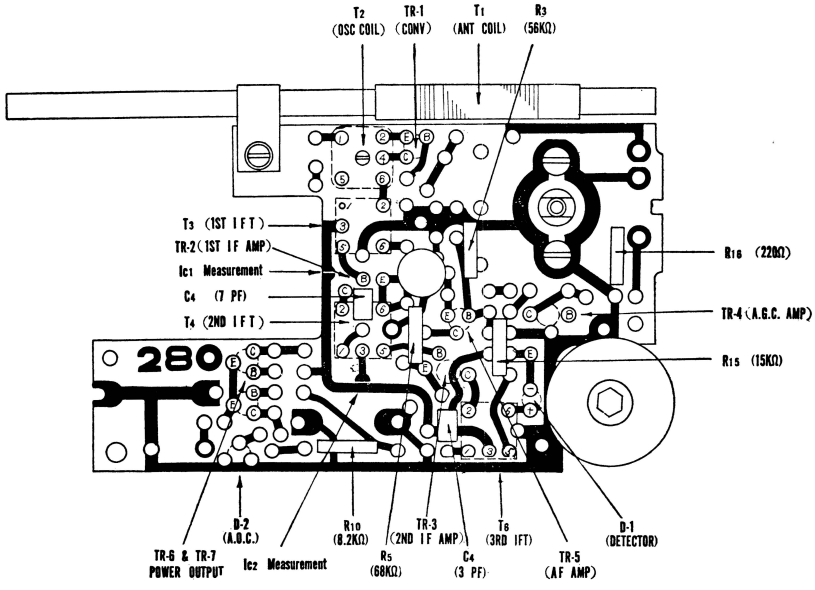


SPECIFICATIONS

Frequency Range:	540～1600Kc/s (556～187.5m)
Intermediate Frequency:	455Kc/s
Sensitivity:	300μV/m/10mW
Power Output:	150mW undistorted 200mW maximum
Battery:	9V (NATIONAL 006P or equivalents)
Speaker:	2½″ PM dynamic speaker Voice coil impedance 10Ω

MAIN PARTS LOCATION & PRINTED CIRCUIT BOARD





ALIGNMENT PROCEDURE

OUTPUT METER ..... Connect Output Meter across speaker voice coil.

OUTPUT LEVEL ..... Attenuate Test Oscillator output always to maintain 0.5 volt on Output Meter to prevent overloading of the receiver.

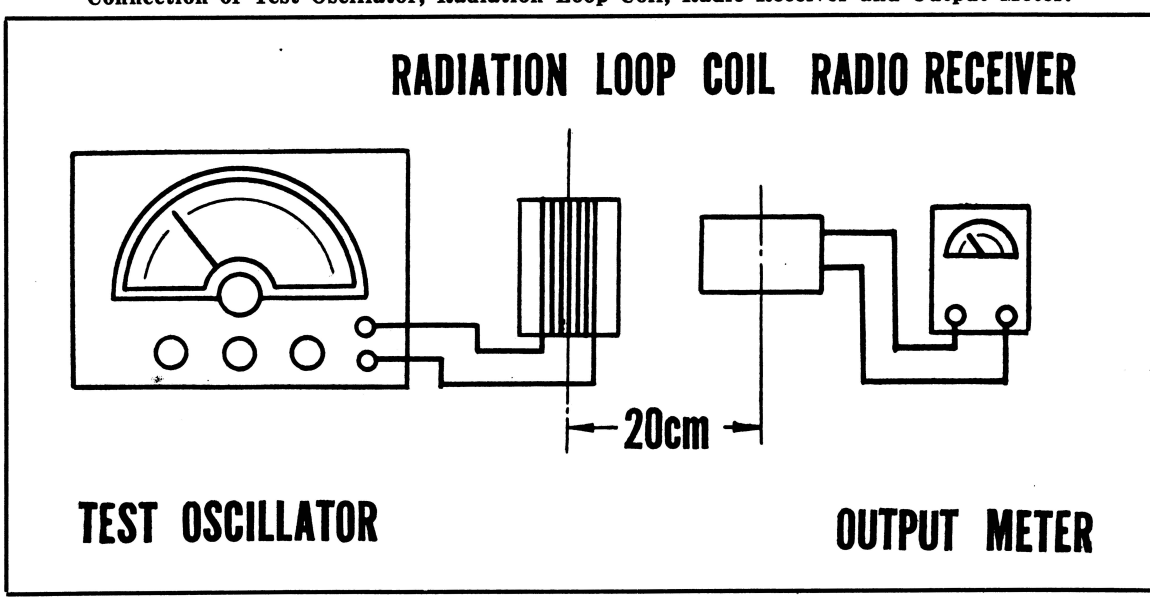
TEST OSCILLATOR ..... Modulate Test Oscillator at 1000c/s and connect the lead wires of Test Oscillator output to Radiation Loop Coil.

RADIO RECEIVER..... Place the radio receiver 20cm away from Radiation Loop Coil. Set volume control to maximum.

RADIATION LOOP COIL... Make up a 20 turn, 15cm diameter bobbin, using 1mm copper wire.

Step	Test Oscillator output	Dial setting	Adjusting to maximum output
1	455 KC	Variable capacitor at maximum capacity	I F transformers (T_3, T_4, T_5)
2	455 KC		Repeat step ①.
3	525 KC		Oscillator coil (T_2)
4	1650 KC	Variable capacitor at minimum capacity	Oscillator trimmer (C_2B)
5	525 KC or 1650 KC	Variable capacitor at max. or min. capacity	Repeat steps ③ and ④.
6	600 KC	600 KC	Antenna coil (T_1)
7	1200 KC	1200 KC	Antenna trimmer (C_1B)
8	600 KC or 1200 KC	600 KC or 1200 KC	Repeat steps ⑥ and ⑦.

Connection of Test Oscillator, Radiation Loop Coil, Radio Receiver and Output Meter.



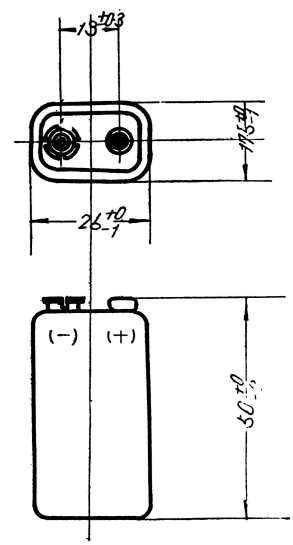
BATTERY

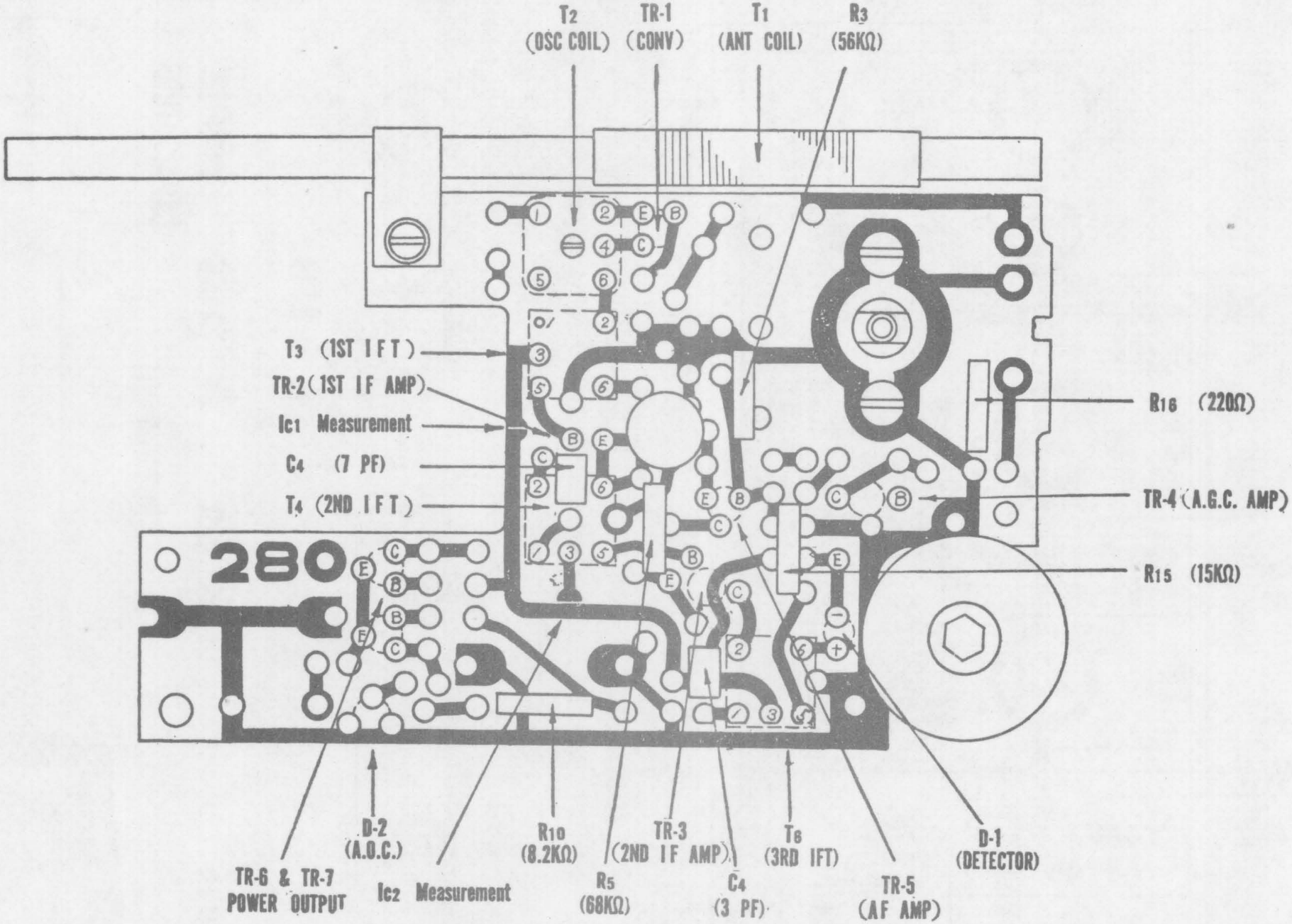
NATIONAL Dry Cell 006P

Voltage: 9V
Dimensions: Sketch shows maximum dimensions with tolerances as indicated.

Terminal: Snap type
Weight: 30 gs.

or any other batteries of the same dimensions and voltages.




T2 (OSC COIL)
TR-1 (CONV)
T1 (ANT COIL)
R3 (56KΩ)
T3 (1ST IFT)
TR-2 (1ST IF AMP)
Ic1 Measurement
C4 (7 PF)
T4 (2ND IFT)
R16 (220Ω)
TR-4 (A.G.C. AMP)
R15 (15KΩ)
280
D-2 (A.O.C.)
TR-6 & TR-7 POWER OUTPUT
Ic2 Measurement
R10 (8.2KΩ)
R5 (68KΩ)
TR-3 (2ND IF AMP)
C4 (3 PF)
T6 (3RD IFT)
TR-5 (AF AMP)
D-1 (DETECTOR)