RADIO SERVICE BULLETIN

Issue No. 136

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Subject : Model TR 7180.

SPECIFICATION OF S.T.C. MODEL TR7180 ALL TRANSISTOR PORTABLE RECEIVER

DESCRIPTION:

A battery operated seven transistor portable broadcast receiver, incorporating :

1. High output low distortion audio amplifier with two feed-back loops.
2. Temperature compensated Class "B" push pull output stage.
3. All stages temperature stabilised.
4. Heavy duty 5" loudspeaker, Rola Model 5F.
5. Primary & secondary automatic gain control systems.
6. Two stages of IF amplification with four tuned circuits.
7. Ferrite rod aerial.
8. External aerial connections provided for both long and short aerials.
9. Circular tuning dial with interchangeable state dial cards.
10. Continuously variable tone controls.

TUNING RANGE:

530 – 1620 kc/s.

INTERMEDIATE FREQUENCY:

455 kc/s.

TRANSISTOR & DIODE COMPLEMENT:

X_1 High gain, Converter, type 2N252
X_2 High gain, I.F. Amplifier type 2N308
X_3 High gain, I.F. Amplifier type 2N308 and 2N309
X_4 Low level, high gain audio amplifier type TS14.
X_5 Medium level, medium gain audio amplifier type TS13
X_6 High level, high gain push pull amplifier type 2N270 or 2N185
X_7 High level, high gain push pull amplifier type 2N270 or 2N185
D_1 A.V.C. diode type GD4
D_2 Detector and A.V.C. diode type GD4

POWER SUPPLY:

9 volt type 276P radio battery

LOUD SPEAKER:

5 inch permanent magnet type Rola 5F, with 300 ohms C.T. to 3.5 ohms transformer.

CIRCUIT VOLTAGES & CURRENTS:

Refer Circuit Diagram