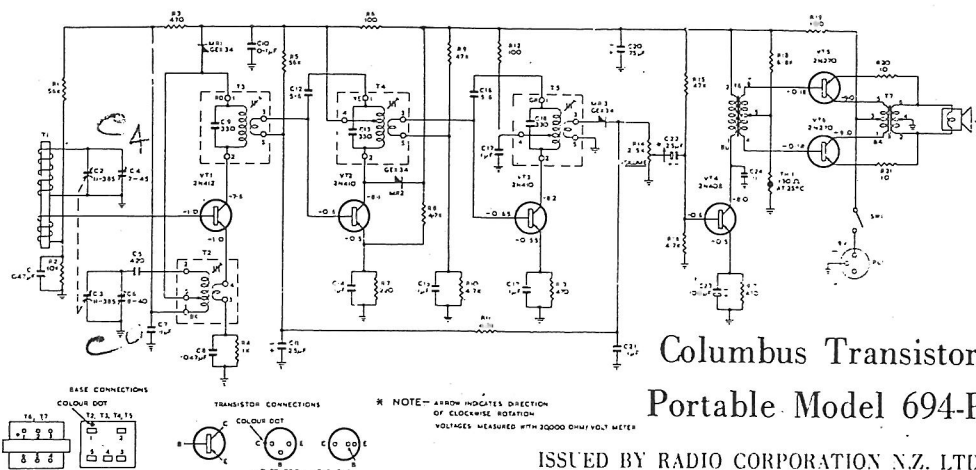
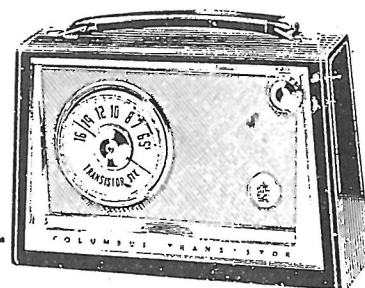


TECHNICAL INFORMATION AND SERVICE DATA



Columbus Transistor
Portable Model 694-P

ISSUED BY RADIO CORPORATION N.Z. LTD.

GENERAL DESCRIPTION

Model 694-P is a compact, lightweight battery operated portable containing six transistors and three crystal diodes. It is a superheterodyne receiver designed for the reception of the Medium Wave Band.

Features of its design include:

Ferrite Rod Aerial; high gain I.F. transformers, Autodyne converter; feedback on the output stage; high sensitivity 4in. permanent magnet speaker; and printed circuit, giving compact size.

ELECTRICAL AND MECHANICAL SPECIFICATIONS

Frequency Range 540-1600 Kc/s.
(555-187.5 Metres)

Intermediate Frequency 455 Kc/s.

Battery Complement 9 volt Battery Type 2364

Battery Consumption For zero audio output = 11 mA

Transistor Complement:

A.W.V. 2N412	Converter
A.W.V. 2N410	1st I.F. Amplifier
A.W.V. 2N410	2nd I.F. Amplifier
A.W.V. 2N408	Driver
A.W.V. 2N270	Output
A.W.V. 2N270	Output

Three GEX34 crystal diodes are also used as (1) Audio Detector and A.V.C., (2) Converter Clamp, and (3) Overload Diode.

Loudspeaker:

4" permanent magnet No. 21594.

V.C. Impedance, 16 ohms at 400 c.p.s.

Undistorted Power Output 300 mW

Controls:

Tuning Control — front left-hand of cabinet.

On/off Volume Control — right-hand end of cabinet.

Dimensions:

Height, 6½"; Width, 8½"; Depth, 3".

Weight with battery, 3 pounds.

Chassis Removal:

Remove the volume and tuning control knobs. The former is a push on fit and the latter is attached to the gang spindle by a locking screw through the gold trim in the centre of the control.

Unscrew the two captive screws holding the back lid closed.

Remove the two screws at the base of the cabinet and the two screws at the handle pivots.

The chassis is now free to slide from the cabinet.

Chassis installation is the reverse of the above, making sure that the cardboard packer is correctly placed towards the front of the cabinet under the chassis before replacing the bottom screws.

When replacing the tuning control the following procedure should be adopted:

Make sure the gang is at its maximum clockwise position. Replace the tuning knob with the red line horizontal, then the small metal washer, taking care to locate the two small holes in the washer over the small pegs protruding from the nylon centre bush. Replace the gold trim and tighten up the locking screw. The position of the pointer may then be checked.

Switch the receiver on and tune to some known station. The pointer should fall across the centre of this station marking. If it does not, loosen the centre locking screw while holding the tuning knob firmly, then position the pointer correctly across the centre of the station marking and finally tighten the locking screw again holding the tuning knob firmly in position.

694P

