

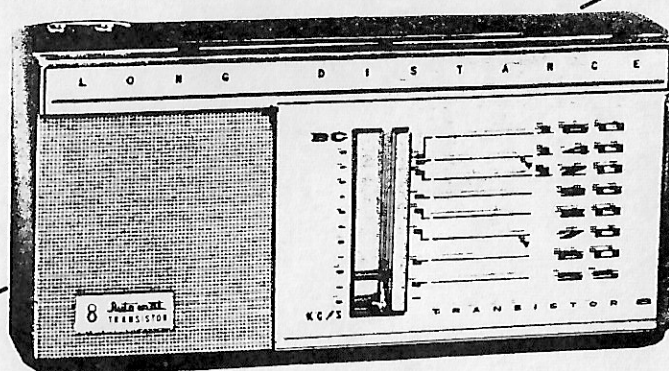
Autochat

MODEL 8C•025

ALL-TRANSISTOR

PORTABLE

RADIO



MODEL
8C•025

SPECIFICATIONS.

TYPE.

8 Transistor, 1 Diode.

FREQUENCY COVERAGE.

500 - 1600 Kc/s.

INTERMEDIATE FREQUENCY.

450 Kc/s.

DIODE.

1N60 Detector.

SPEAKER.

2½" P.M. 7 ohm.

TRANSISTORS.

- | | | |
|---|-------|-----------------------------------|
| 1 | 2SA72 | R.F. Amplifier |
| 1 | 2SA52 | Oscillator & Frequency Converter. |
| 1 | 2SA49 | 1st IF Amplifier |
| 1 | 2SA53 | 2nd IF Amplifier |
| 1 | 2SB54 | 1st AF Amplifier |
| 1 | 2SB54 | 2nd AF Amplifier |
| 2 | 2SB56 | Power Amplifier |

OUTPUT.

180 MW

THERMISTOR.

- 1 M8601 Thermal compensator

BATTERIES.

- 4 - 1½ V. Penlight Cells.

ALIGNMENT PROCEDURE.

GENERAL.

Allow the test equipment to warm up for fifteen minutes before starting the alignment procedure.

OUTPUT METER.

Connect the output meter (a 1000-ohm-per-volt, a-c voltmeter, or an oscilloscope) across the voice coil terminals.

SIGNAL GENERATOR.

Use an AM r-f signal generator. Connect the ground lead to chassis, and connect the output as insicated in the alignment chart.

OUTPUT LEVEL.

For all Alignment Procedure, connect the low side of the test oscillator with the circuit board and keep oscillator output as low as possible to avoid AGC.

CONTROLS.

Set the volume control to maximum. Set the tuning control as indicated in the alignment chart. During alignment of the radio, the batteries should be in the same position with respect to the chassis and the loop antenna as they normally are in the cabinet.

| STEP | CONNECT HIGH SIDE of SIG. GEN. TO | SIG.GEN. OUTPUT. | POINTER SETTING. | ADJUST FOR MAX. OUTPUT. |
|------|---|----------------------|----------------------------|-------------------------------------|
| 1. | High side thru 0.1 capacitor to antenna lug (CV1) on tuning gang. | 450 Kc | Tuning gang fully open. | T 3 T 2 T 1 |
| 2. | Short wire placed near antenna for Radiated Signal. | 530 Kc | Tuning gang fully open. | L 3 |
| 3. | | 1650 Kc | Tuning gang fully . | CV 3 |
| 4. | | Repeat step 2 and 3. | | |
| 5. | | 600 Kc | 600 Kc | RF Coil L 2 ANT Coil L 1 |
| 6. | | 1400 Kc | 1400 Kc | RF Trimmer CV 2 ANT Trimmer CV 1 |
| 7. | | Repeat step 5 and 6. | | |

