

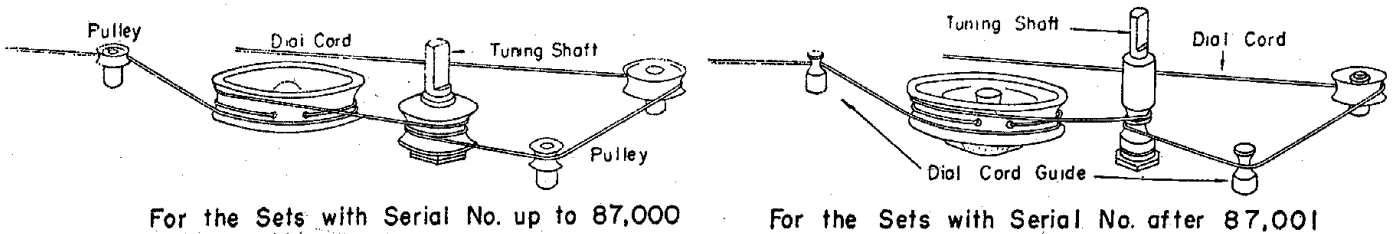
**General Description:** Nine-transistor (plus diode) portable receiver with telescopic aerial. Battery, 6 volts. Tuning meter.

**Wavebands:** M.W. 535-1605 kc/s. S.W.1. 3-9 Mc/s. S.W.2. 9-24 Mc/s.

**Alignment:** I.F. 455 kc/s. (IFTs). M.W. 520 kc/s. (OC<sub>0</sub>); 1680 kc/s. (C<sub>2-4</sub>); 620 kc/s. (RFT<sub>0</sub>, AC<sub>0</sub>); 1400 kc/s. (C<sub>2-1</sub>, C<sub>3-1</sub>). S.W.1. 2.85 Mc/s. (OC<sub>1</sub>); 9.6 Mc/s. (C<sub>2-5</sub>). 3.5 Mc/s. (RFT<sub>1</sub>, AC<sub>1</sub>); 9.6 Mc/s. (C<sub>2-2</sub>, C<sub>3-2</sub>). S.W.2. 8.8 Mc/s. (OC<sub>2</sub>); 24.8 Mc/s. (C<sub>2-6</sub>); 9.5 Mc/s. (RFT<sub>2</sub>, AC<sub>2</sub>); 24.8 Mc/s. (C<sub>2-3</sub>, C<sub>3-3</sub>).

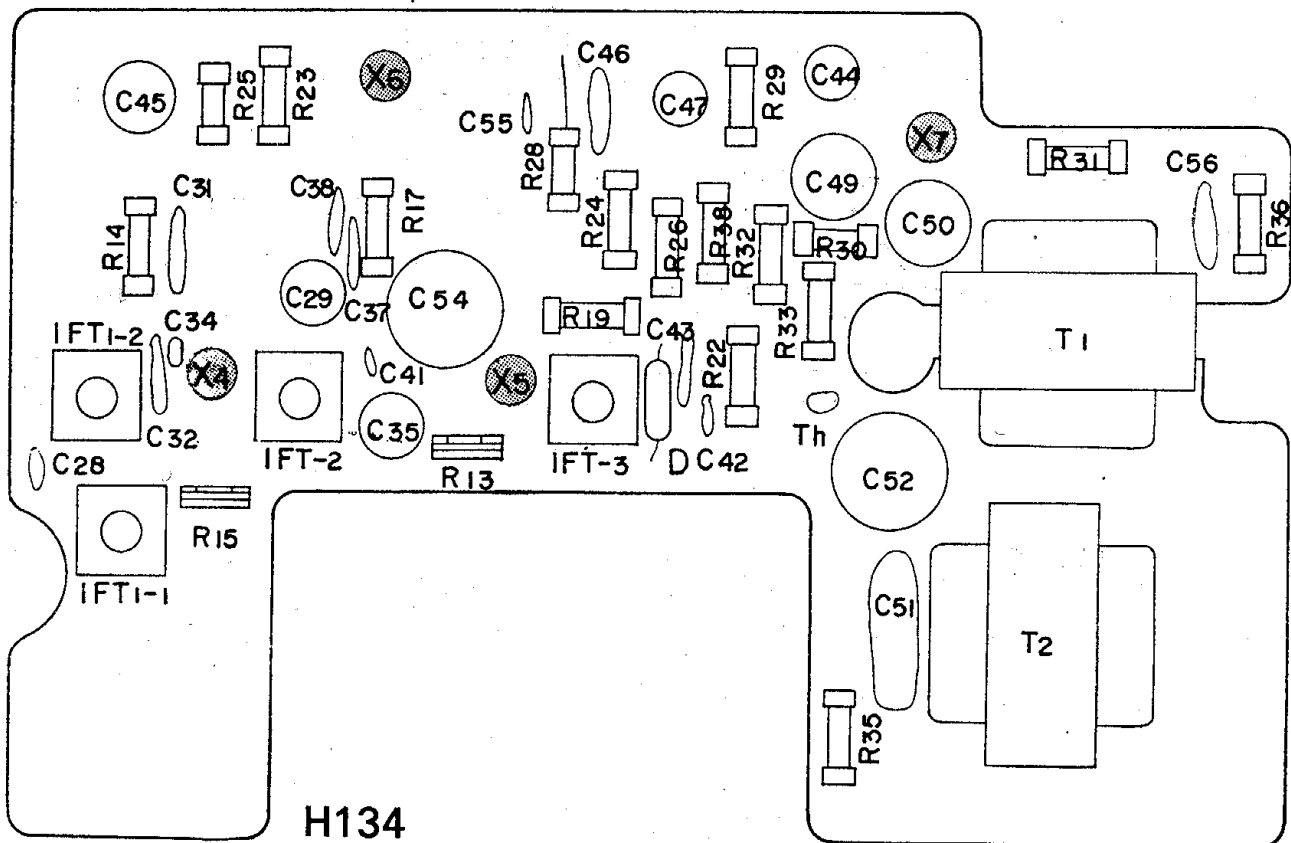
**Transistors:** (X<sub>1</sub>, X<sub>2</sub> and X<sub>3</sub>) 2SA70; (X<sub>4</sub> and X<sub>5</sub>) 2SC76; (X<sub>6</sub>) 2SD64; (X<sub>7</sub>) 2SD65; (X<sub>8</sub> and X<sub>9</sub>) 2SB52.

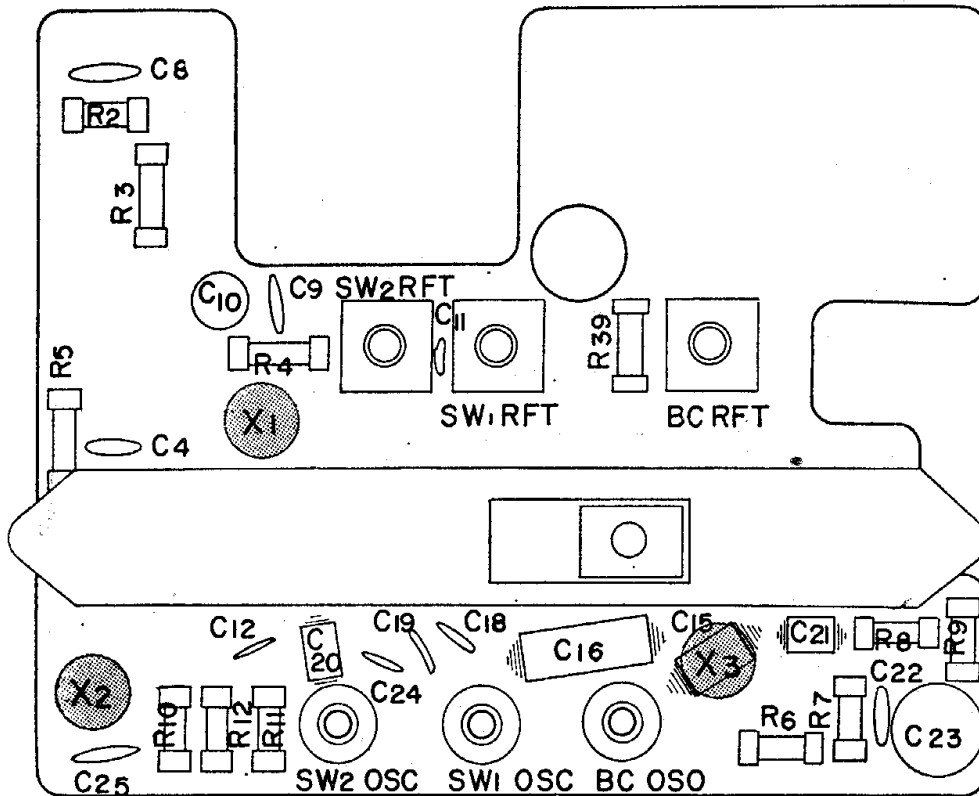
**Diode and Thermistor:** (D) IT<sub>23</sub>G; (Th) CS-47.



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## TUNING MECHANISM

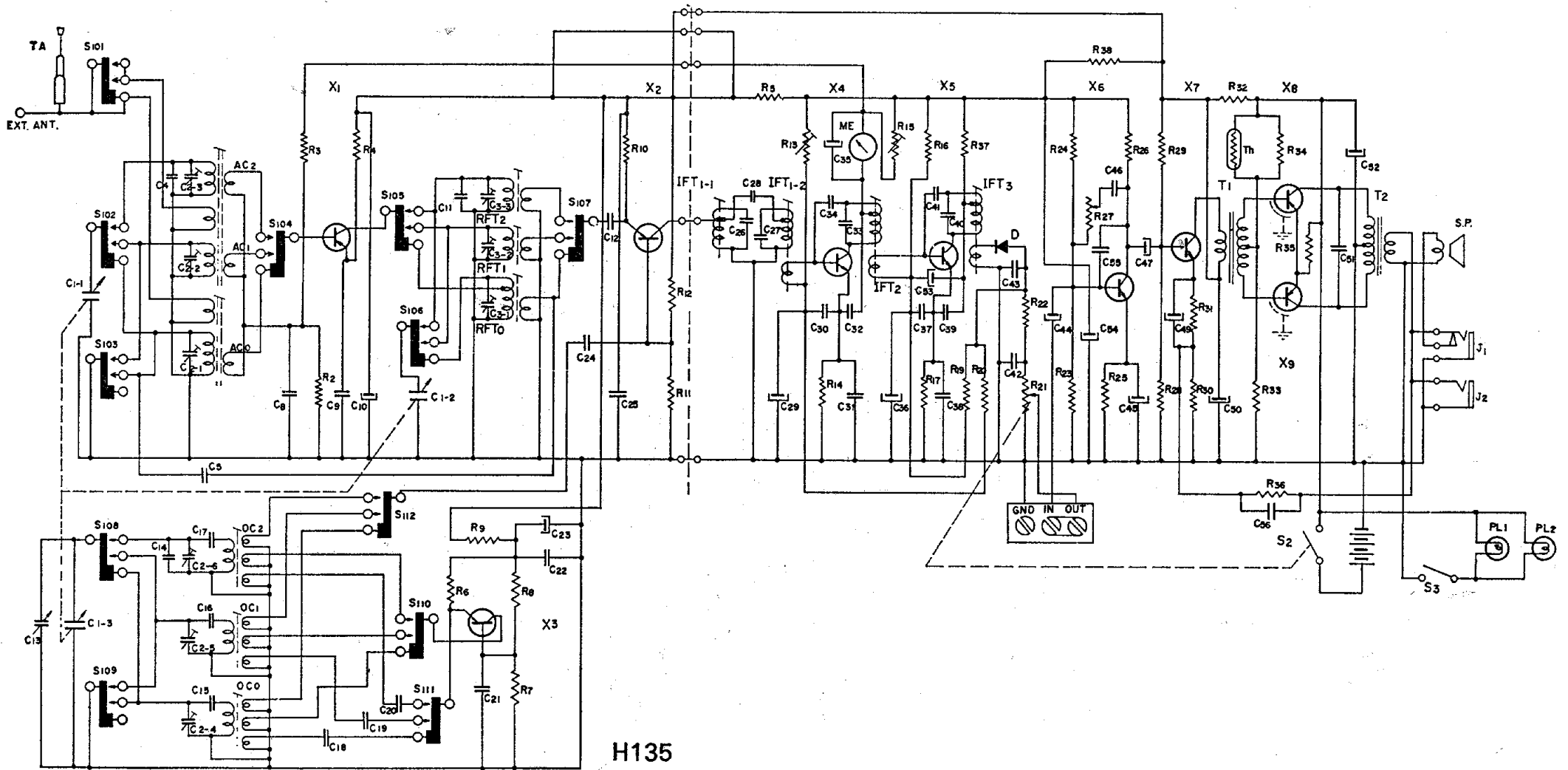




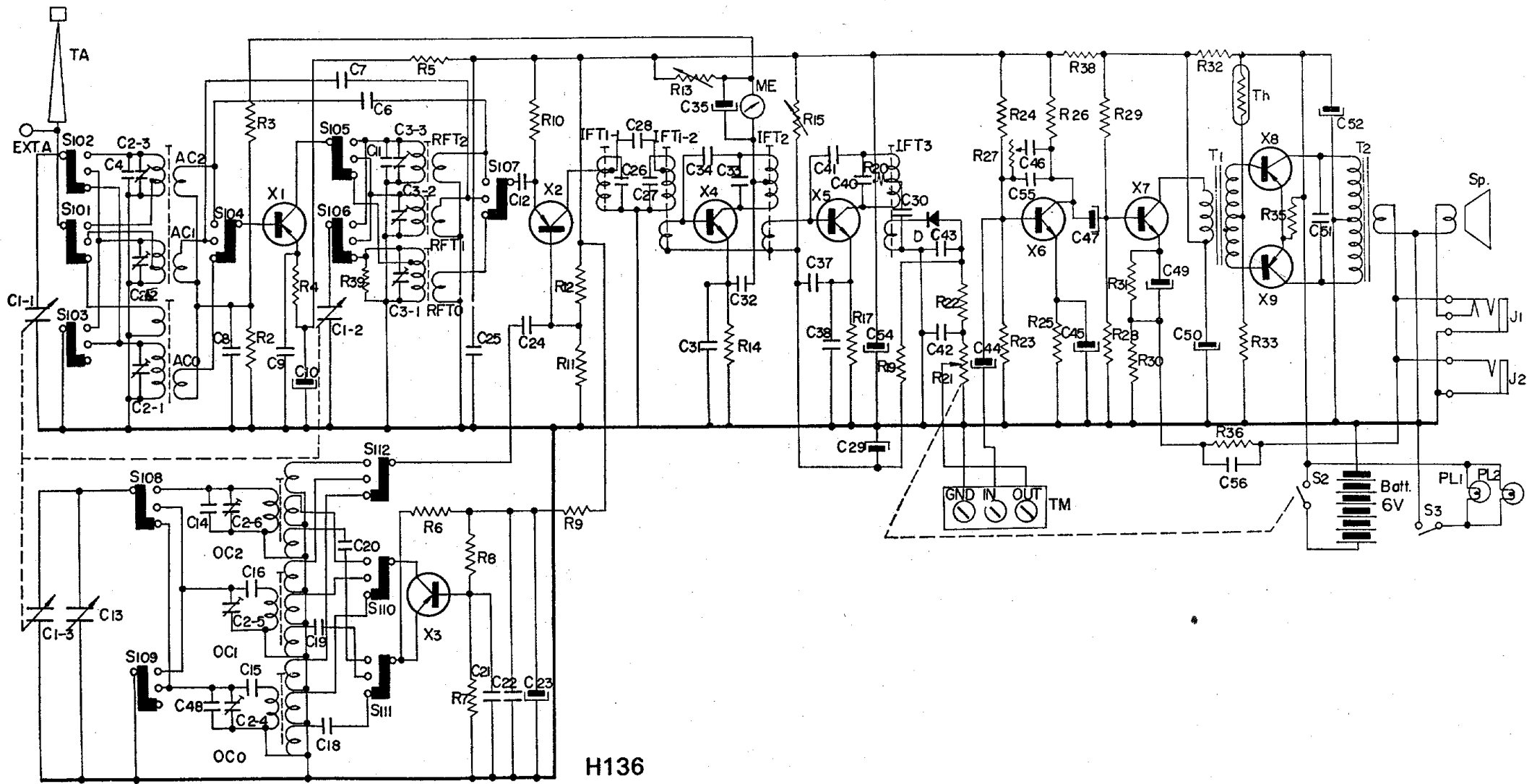
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COMPONENT LOCATIONS—R.F. SECTION

**Dismantling:** Remove all control knobs from the front panel by pulling straight out. Unscrew the two large screws holding the back cover. The entire back cover comes off including the telescopic antenna assembly. Pull off the telescopic antenna pin connector from the pin located on the R.F. circuit board. Remove 5 hex. nuts to separate the chassis assembly from the cabinet. Unsolder the earphone leads (orange and black) going to right side bottom of the I.F.-A.F. circuit board. Remove two heat sink screws. Remove two screws holding the I.F.-A.F. circuit board. The I.F.-A.F. circuit board can now be turned over for repairs on the printed side. The I.F.-A.F. circuit board can be removed completely by unsoldering leads going down from it to other points. There are two unfastened lugs on the top of the board holding it to the chassis. To do repairs on the R.F. circuit board remove three screws and unsolder the yellow and the black wire going to the tuning capacitor and the tinned copper wire to the fine tuning capacitor if further separation is desired.



CIRCUIT DIAGRAM—UP TO SERIAL NO. 87000



CIRCUIT DIAGRAM—AFTER SERIAL NO. 87001