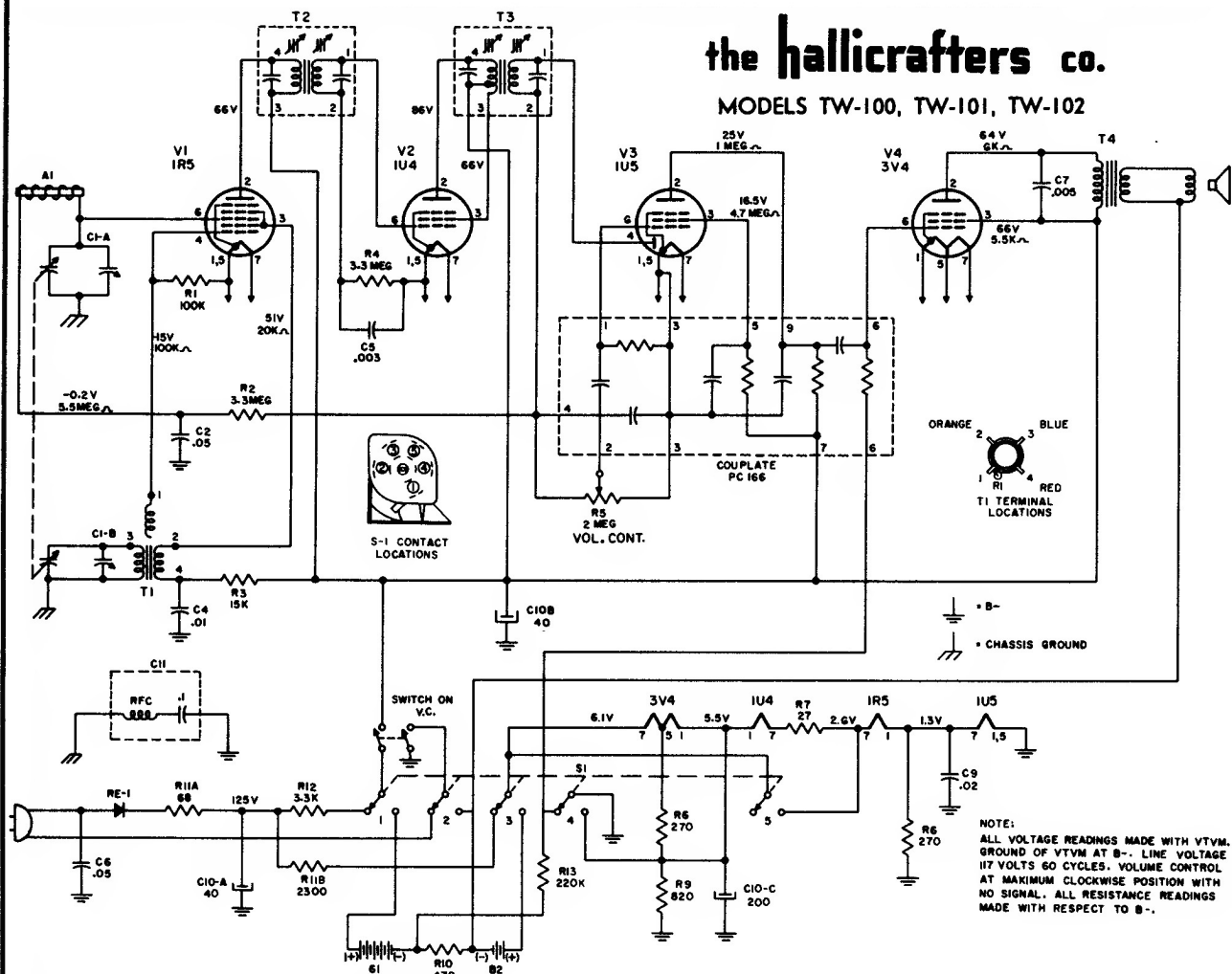


the hallicrafters co.

MODELS TW-100, TW-101, TW-102



GENERAL ALIGNMENT PROCEDURE

1. Connect a low voltage A.C. voltmeter across the speaker voice coil.
2. Connect signal generator through a .05 mfd. capacitor to pin 6 of V-1, mixer/oscillator tube. (1R5) Connect generator ground lead to the B- line.
3. Rotate volume control to extreme clockwise position. (Maximum volume setting).
4. Adjust generator for 455 kc. output, amplitude modulated 30% at 400 cycles. Maintain output reading on meter constant at 0.4 volts by varying signal generator output.
5. Using a non-metallic adjustment tool, adjust primary and secondary of second I-F transformer (T-3) for maximum output.
6. Adjust primary and secondary of first I-F transformer (T-2) for maximum output.
7. Remove signal generator from pin 6 of V-1, and loosely couple generator output to ferrite stick antenna. (Wind a short length of insulated hookup wire loosely around the antenna coil several times, and connect generator output to one end of this wire). Generator ground lead remains connected to B- line.
8. Set generator to 1640 kc., 30% modulation at 400 cycles. Set receiver station selector to high end of band. (Tuning condenser fully open).

9. Adjust C-1B for maximum output.

10. Set generator to 1500 kc., 30% modulation at 400 cycles. Adjust station selector to 1500 kc.
11. Adjust C-1A for maximum output.
12. Set generator to 1000 kc. 30% modulation at 400 cycles. Adjust station selector to 1000 kc. Bring a piece of powdered iron (such as a coil slug) near the antenna loop stick until an indication is noted on the output meter. Repeat with a piece of brass. If the receiver output changes slightly, the receiver is tracking properly.
13. Repeat step 12 at 600 kc.

