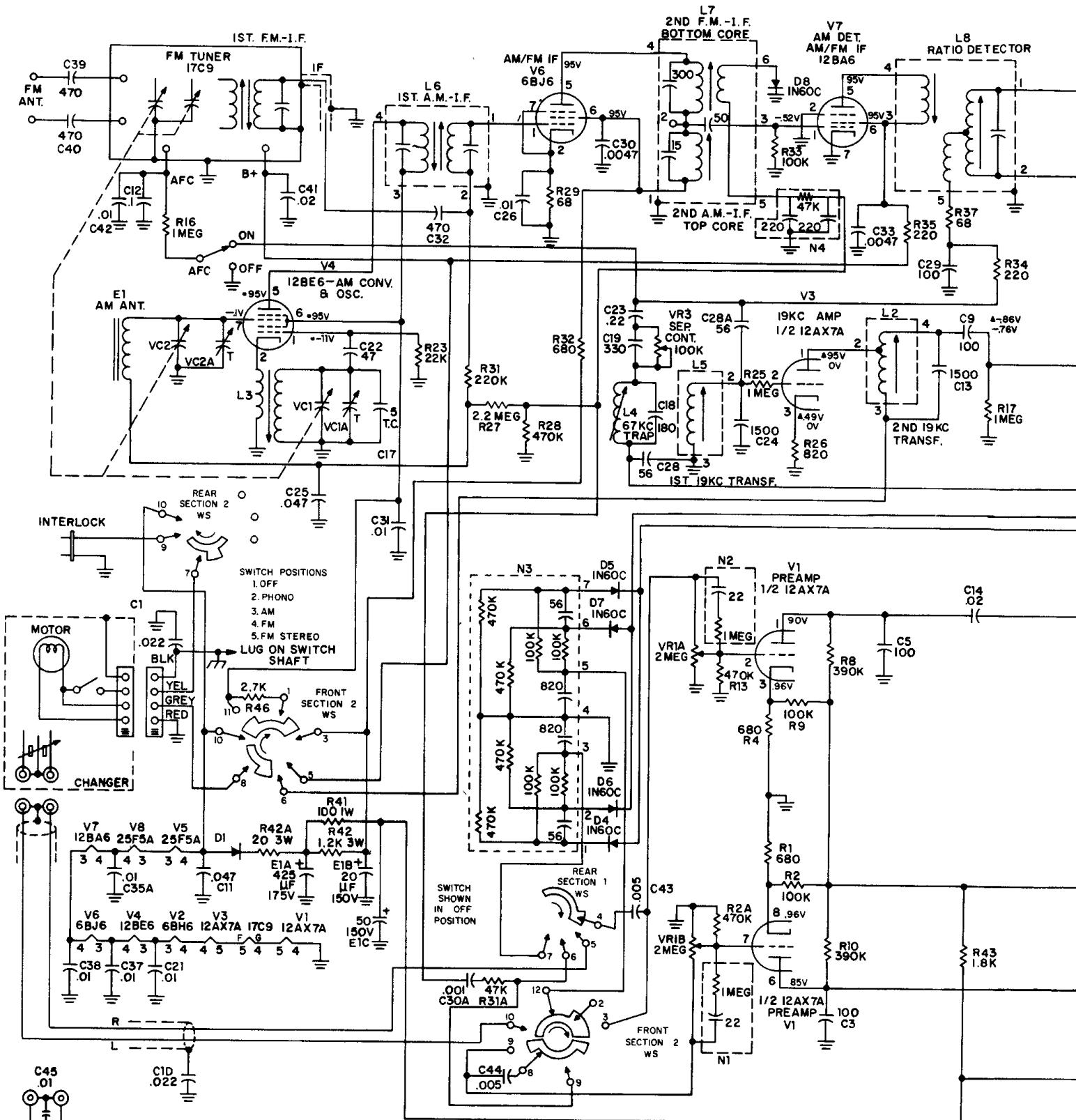


PHILCO

MODELS M-1001, M-1620, M-1662, M-1663, M-1664, & M-1700 AMPLIFIER & TUNER

Also Model M-1701 is like M-1663



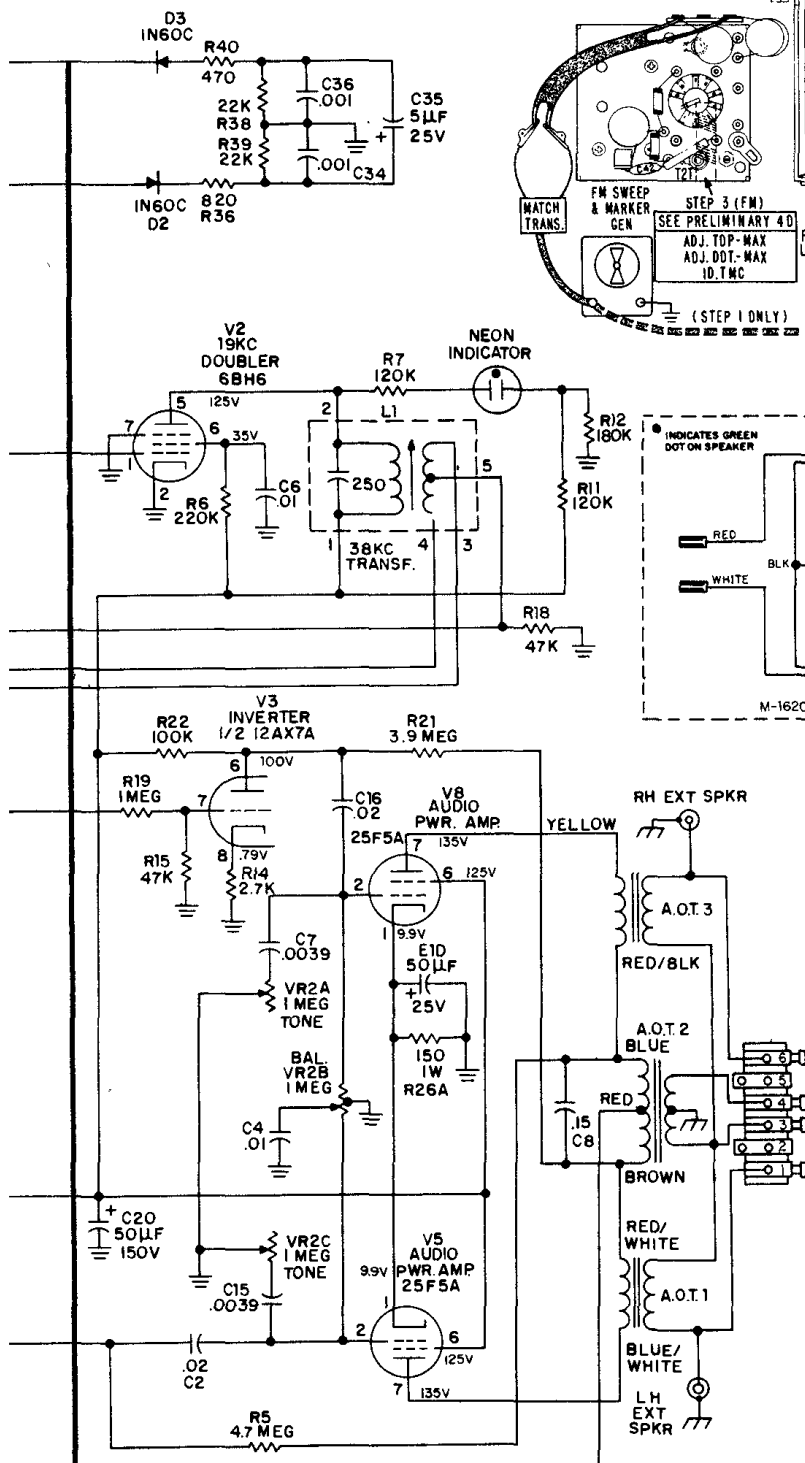
AMPLIFIER AND TUNER PANEL REMOVAL MODELS M-1001, M-1620, M-1662, M-1663, M-1664

1. Unsolder all wires holding perma-circuit panel in chassis.
2. Remove two nuts securing function switch and loudness control front dial panel.
3. Remove three screws securing rear chassis piece and remove piece.
4. Remove five screws securing panel to chassis.
5. Pull panel back and away from chassis.

(USED ON MODELS
M-1620 & M-1700.
C10 OMITTED ON
THESE MODELS)

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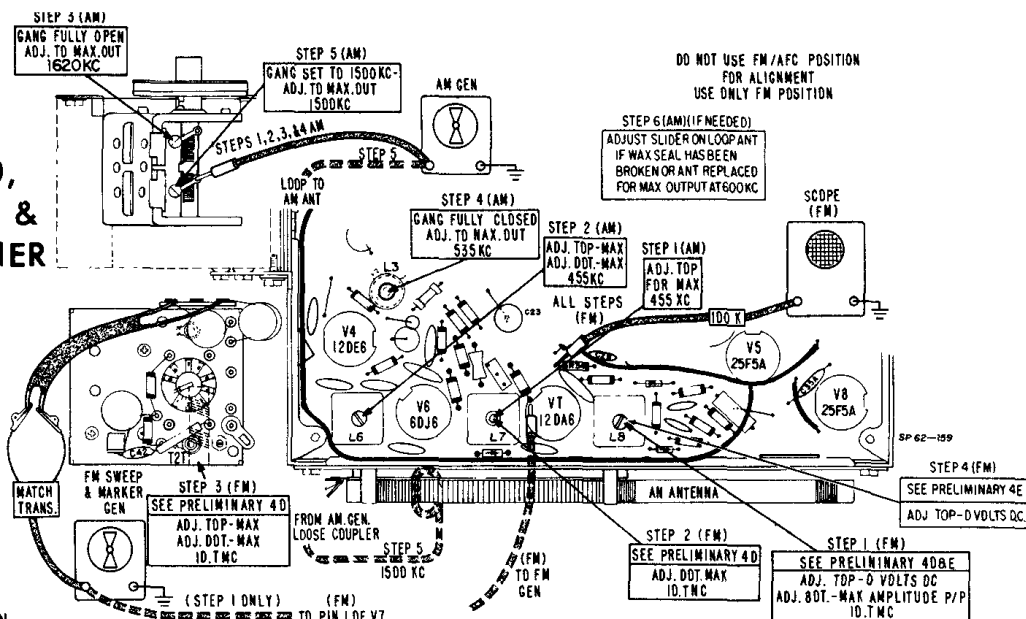
MODELS M-1001, M-1620, M-1662, M-1663, M-1664, & M-1700 AMPLIFIER & TUNER



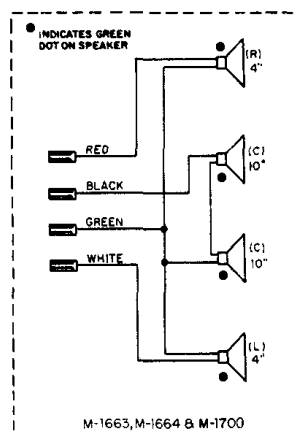
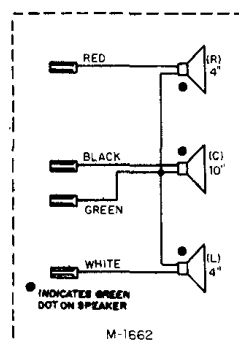
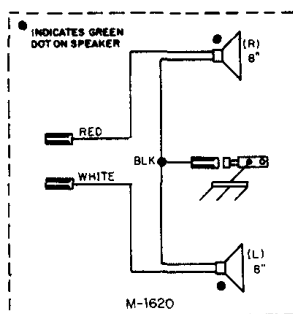
ALL VOLTAGES TAKEN WITH "PRECISION" VTVM MODEL
"88" ALL CONTROLS SET AT MINIMUM, SELECTOR SWITCH
SET TO PHONO POSITION UNLESS OTHERWISE NOTED.
• VOLTAGES TAKEN IN AM POSITION.
• VOLTAGES TAKEN IN FM STEREO POSITION.

Circuit for M-1001 differs in some details.

(Continued on page 120)



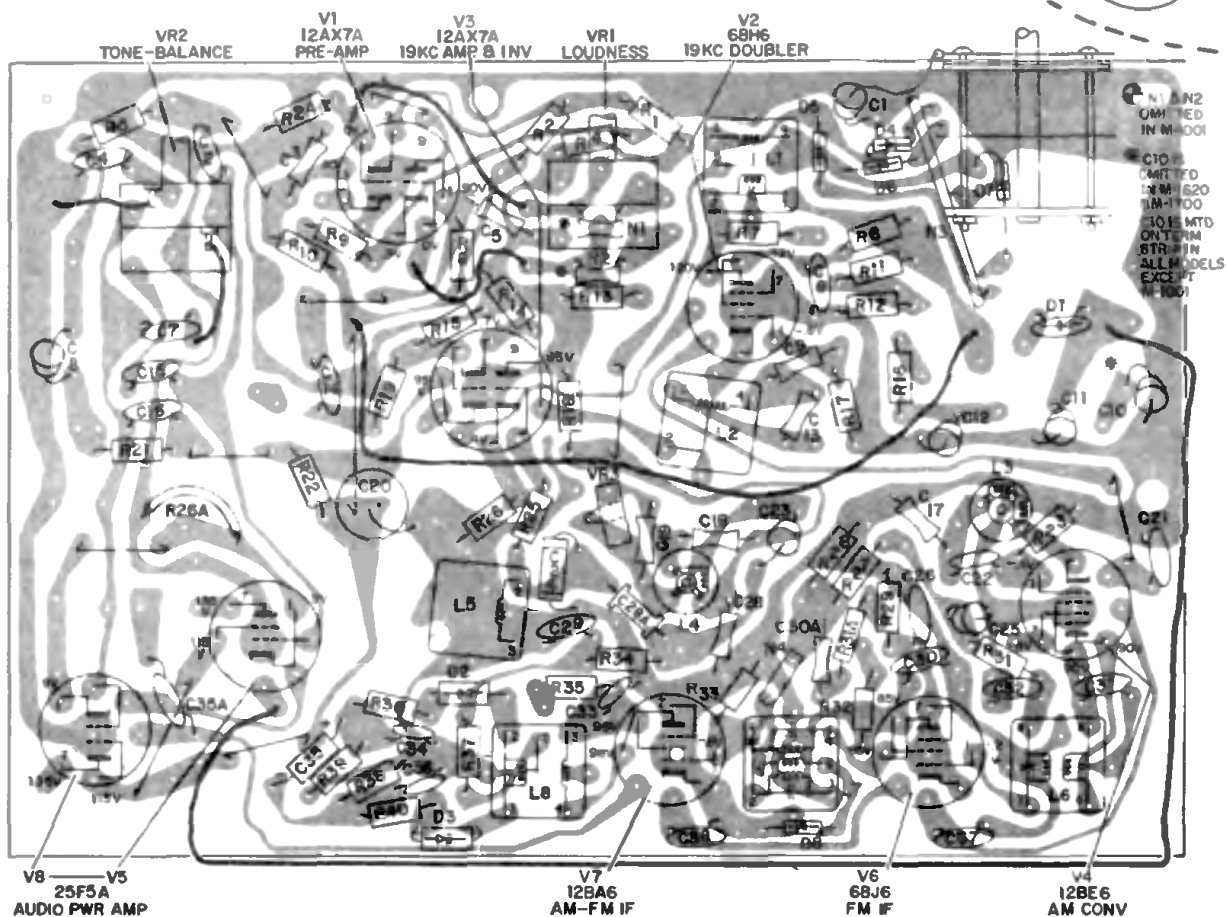
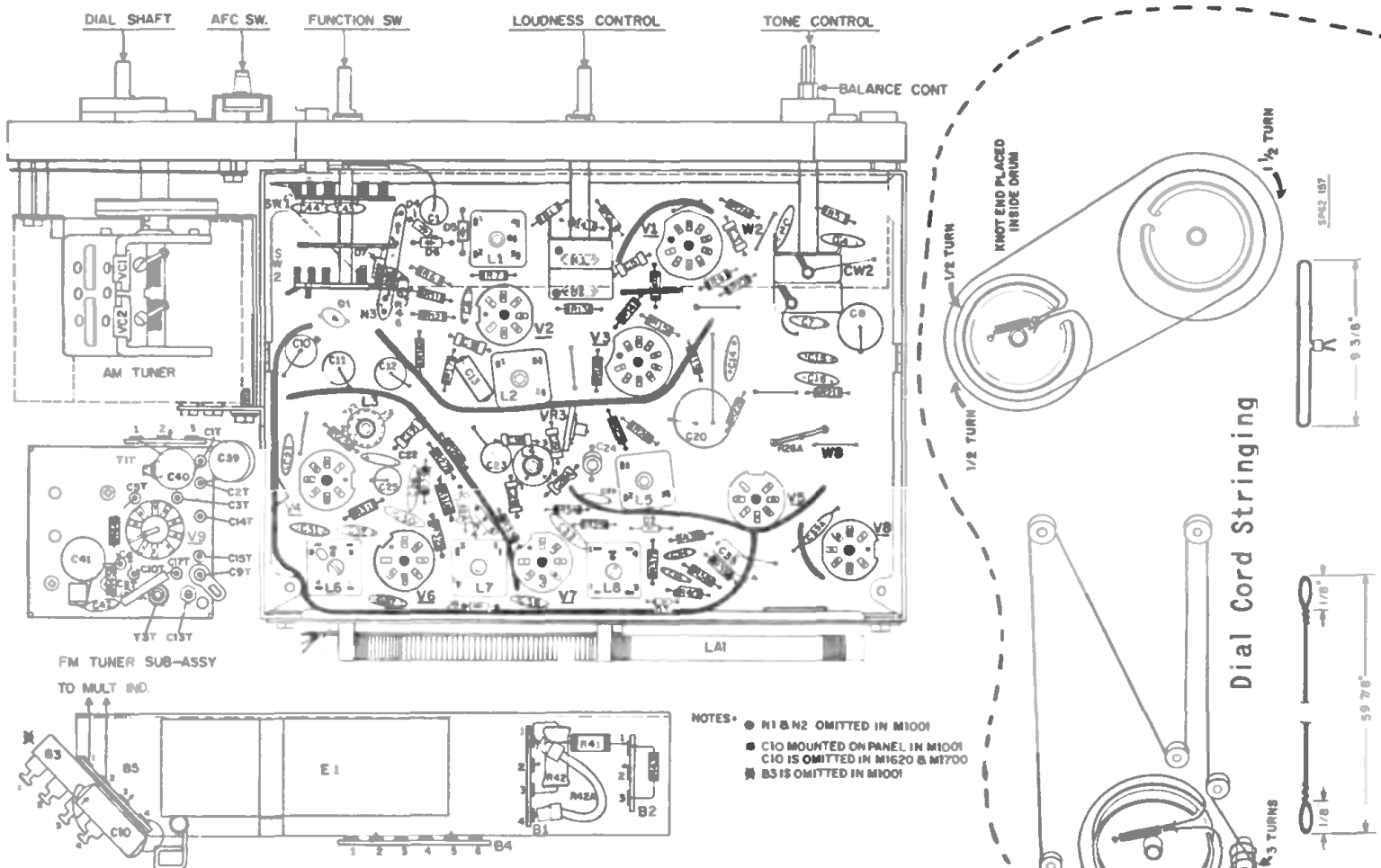
Alignment Procedure Chart



PRELIMINARY ALIGNMENT INFORMATION

1. Connect amplifier through isolation transformer to eliminate dangerous shock hazard.
2. Allow receiver and test equipment 15 minutes to warm up and stabilize.
3. For AM Alignment -
 - A. Connect VTVM across one external speaker jack.
 - B. Use 30% modulation on generator for AM alignment.
 - C. Proceed with alignment steps as illustrated in alignment chart.
4. For FM Alignment -
 - A. Connect FM generator, through a 72 ohm to 300 ohm matching network, to antenna terminals.
 - B. Use ± 120 KC sweep deviation for FM alignment.
 - C. Keep generator output as low as possible throughout FM alignment procedure.
 - D. Adjust top and bottom core of T2T, bottom core of L7 and bottom core of L8 for a symmetrical maximum amplitude "S" curve with 10.7 mc marker in the middle. Curve must be obtained in T2T with tuning slugs nearest to end of coil form.
 - E. Add VTVM across scope connections to adjust only the top of L8.
 - F. Proceed with alignment steps as illustrated in alignment chart.

PHILCO Models M-1001, M-1620, M-1662, M-1663, M-1664, M-1700



Bottom Perma-Circuit View Parts Location