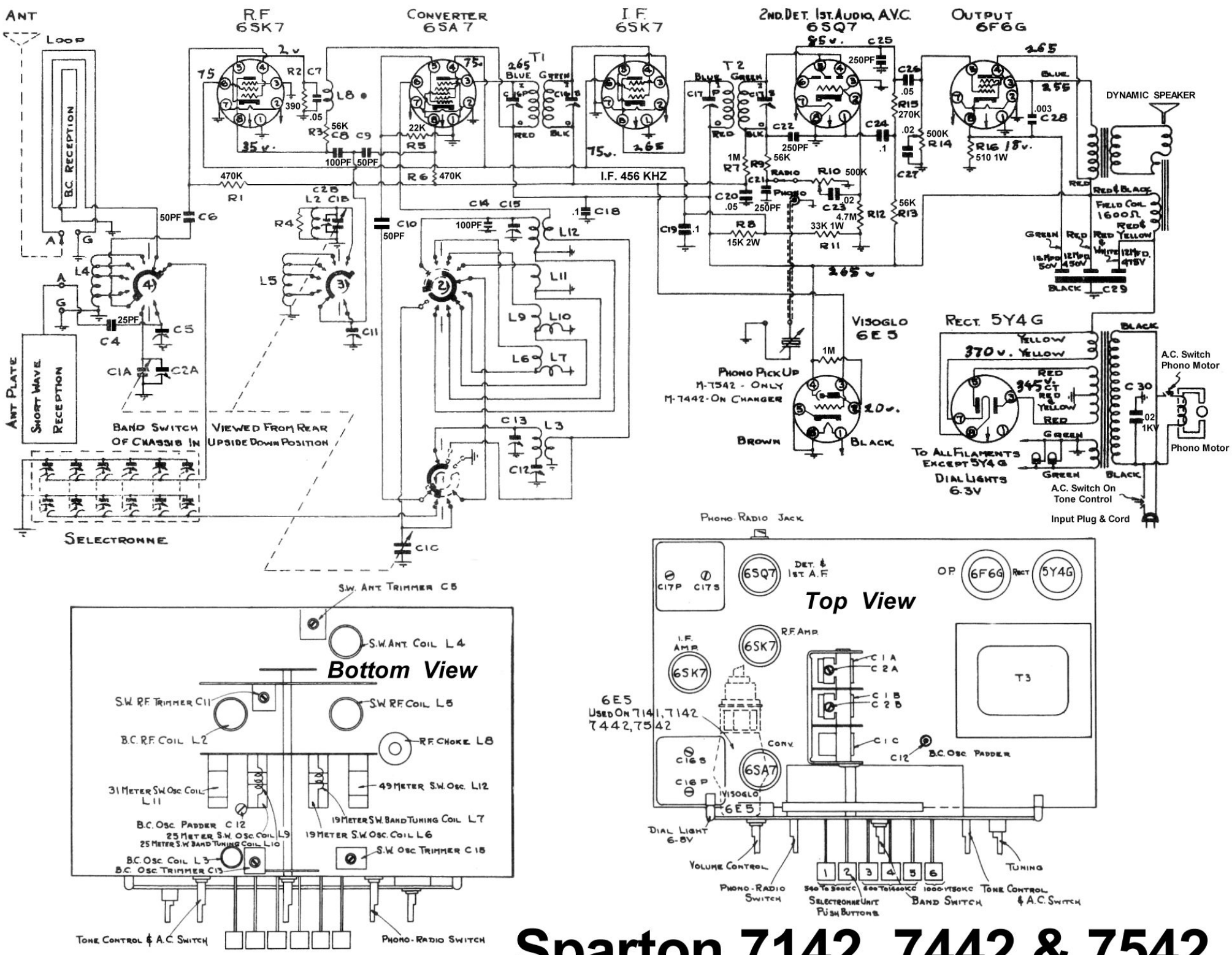

Sparton 7142, 7442 & 7542

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Sparton 7142, 7442 & 7542 Alignment Data

I. F. ALIGNMENT—

Set the service oscillator at 456 K.C. and connect lead to centre stator terminal of gang condenser with band switch on B.C. position adjust I.F. trimmers C16P, C16S, C17P, C17S for maximum reading on an output meter, volume control on full and tone control on high. Pointer set at 1500 K.C. on dial.

B. C. BAND ALIGNMENT—

With plates of gang condenser set full in make sure pointer is at mark at the end of dial scale (550 K.C. end) then turn dial to 1500 K.C. and feed service oscillator (at 1500) to ANT. and GRD. terminals and adjust oscillator condenser C13 to pick up signal, then peak trimmers on gang condenser C2A, C2B for maximum signal output.

With a 600 K.C. signal from service oscillator turn dial to 600 K.C. and adjust padder C12 for maximum signal. Return to 1500 K.C. on dial and readjust C13 to give 1500 and repeak trimmers C2A, C2B.

19-METRE BAND (15 MEGACYCLE)—

Tune set to 15.1 M.C. with band switch on 19M and apply 15.1 M.C. signal to antenna. Signal should come in at this setting. It may be necessary to adjust trimmer C15 to reset the frequency calibration. (NOTE: This osc. trimmer C15 adjusts calibration for all S.W. bands automatically once it is set for 19M band.) Use a 100-ohm dummy antenna to couple test oscillator to antenna terminal on set for S.W. alignment. Now adjust trimmers C5 and C11 for maximum signal output at 15.1 M.C. using the second peak as trimmer screw is turned out (counter-clockwise). It may be necessary to readjust these trimmers slightly on the 49M or other S.W. bands to give an average sensitivity on all bands.

When the 19M band is tuned for maximum signal output the 25. 31 and 49M hands automatically adjusted.

NOTE: On B.C. dial tuning this set operates on 3 gang tuned R.F. stage circuit. On push buttons as 2 gang and R.F. stage. On S.W. as 2 fixed tuned circuits, R.F. stage and variable oscillator.