SEARS, ROEBUCK & CO.

MODELS 2461,2761
Ch.101.643

WIRING DIAGRAM FOR SILVERTONE CHASSIS 101.643

FEB.10,1941

IF PEAK 455 KC

TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS.
VOLTAGE READINGS SHOWN AT SOCKET PRONGS ARE TO
CHASSIS, AND ARE TAKEN WITH NO SIGNAL; WAVE SWITCH
IN BROADCAST POSITION. WHERE NO READING IS GIVEN THE
VOLTAGE IS ZERO OR TOO LOW TO READ.

+ - PART OF T1
* - PART OF T2
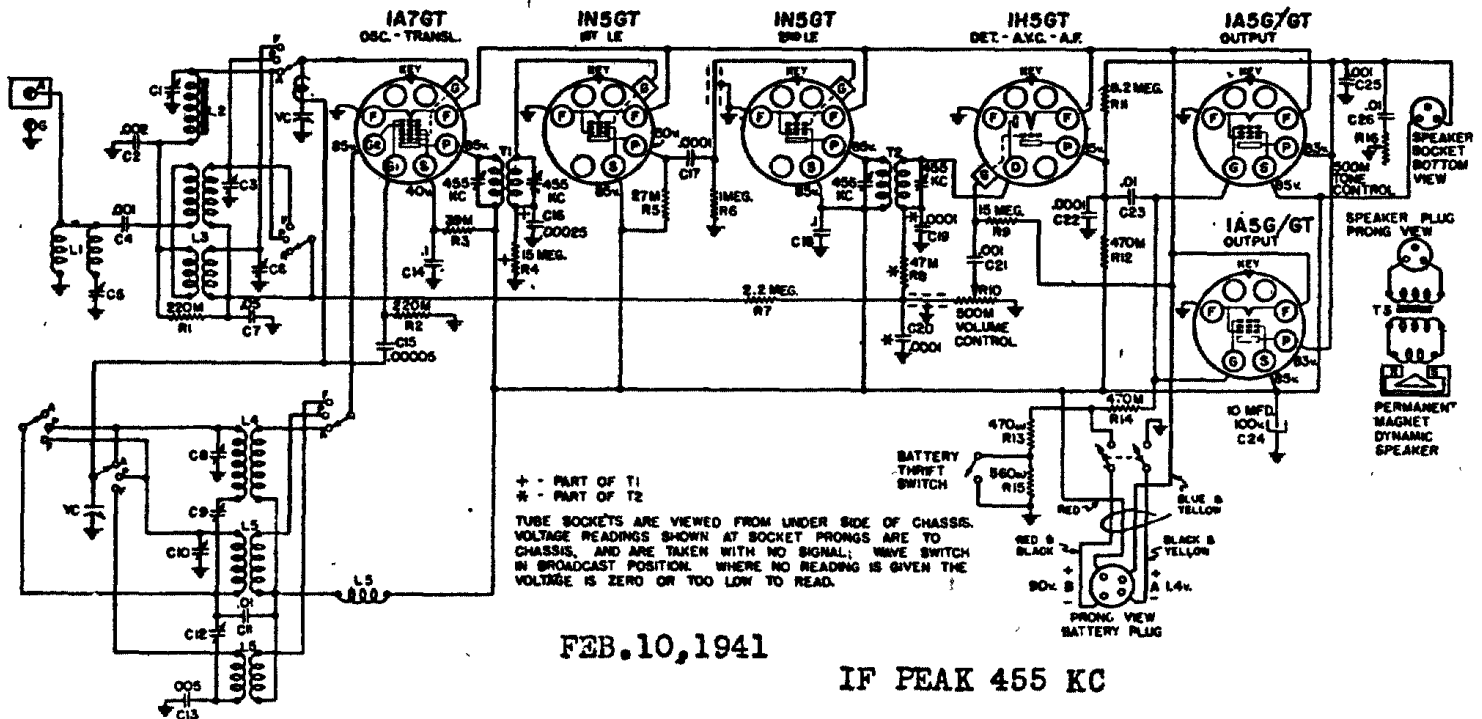
ALIGNMENT PROCEDURE

PRELIMINARY:

Output meter connection . . . . Across loudspeaker voice coil
Output meter reading to indicate 50 milliwatts .0.36 volts
Approximate microvolts input for 50 milliwatts output . . . . See chart below
Generator ground lead connection . . . . Receiver chassis
Dummy antenna value to be in series with generator output . . . . .See chart below
Connection of generator output lead . . . . See chart below
Generator modulation . . . . 30%, 400 cycles
Position of Volume Control . . . . Fully clockwise
Position of Tone Control . . . . HI
Position of Dial Pointer with variable fully closed . . . . .On mark past 540 kc
Position of Battery Thrift Switch . . . . .Right

WAVE BAND SWITCH POSITION	POSITION OF VARIABLE	GENERATOR FREQUENCY	DUMMY ANTENNA	GENERATOR CONNECTION	TRIMMERS ADJUSTED (IN ORDER SHOWN)	TRIMMER FUNCTION	APPROXIMATE MICROVOLTS
"AM"	Closed	455 kc	.1 mfd.	1A7G Grid	T3,T1	IF	75
"AM"	600 kc	455 kc*	.0002 mfd.	Ant. Term.	C5*	Wave Trap	--
"AM"	Fully open	1725 kc	.0002 mfd.	Ant. Term.	C8	Oscillator	--
"AM"	1400 kc	1400 kc	.0002 mfd.	Ant. Term.	C1	Translator	15
"AM"	600 kc(rock)	600 kc	.0002 mfd.	Ant. Term.	C9	Padder	15
"POL"	4.5 mc	4.5 mc	400 ohms	Ant. Term.	C10,C3	Osc,Transl.	15
"FOR"	15 mc(rock)	15 mc	400 ohms	Ant. Term.	C6	Translator	10

IMPORTANT ALIGNMENT NOTES

* The generator should be adjusted for high output. The trimmer should be adjusted for minimum output meter reading instead of the usual maximum reading. If the frequency of an interfering station around 455 kc is known, the generator should be adjusted to the frequency of that station instead of to 455 kc.

Where indicated by the word, "Rock", the variable should be rocked back and forth a degree or two while making the adjustment.

The alignment procedure should be repeated stage by stage, in the original order, for greatest accuracy. Always keep the output from the test oscillator at its lowest possible value to make the AVC action of the receiver ineffective.