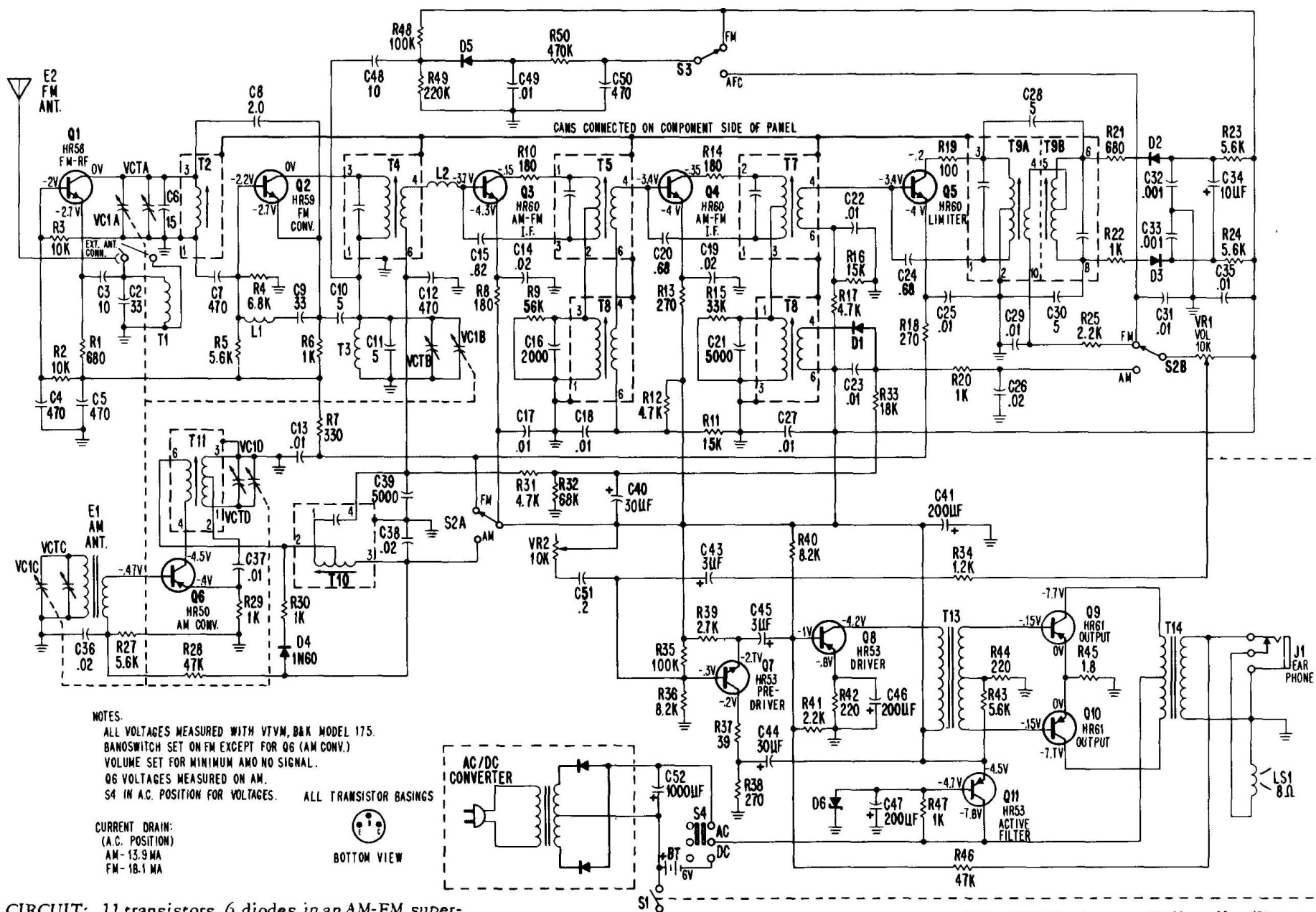


PHILCO

AM/FM RADIO
MODELS ST997 AND ST998

(Continued on next page.)



CIRCUIT: 11 transistors, 6 diodes in an AM-FM super-heterodyne circuit.

FREQUENCY COVERAGE: AM, 520 KHz to 1620 KHz
FM, 88 MHz to 108 MHz

INTERMEDIATE FREQUENCY: AM, 455 KHz
FM, 10.7 MHz

POWER: AC, 117 volts, 60Hz through AC/DC converter, part no. 76-14128-1.

DC, ST998-4 type "D" cells (Eveready types 920 or 1050) in a 6-volt supply.

ST997-4 type "C" cells (Eveready type 1035) in a 6-volt supply

Bottom View—Perma-Circuit Panel—Models ST997 and ST998



SIGNAL GENERATOR			RADIO		
STEP	CONNECTION TO RADIO	DIAL SETTING	DIAL SETTING	SPECIAL INSTRUCTIONS	ADJUST
1	RADIATING LOOP (SEE NOTE 1)	455 KHZ	TUNING GANG FULLY OPEN	ADJUST FOR MAX. OUTPUT IN ORDER GIVEN.	T8, T6 & T10
2	SAME AS STEP 1	1650 KHZ	TUNING GANG FULLY OPEN	ADJUST FOR MAX. OUTPUT.	VCTD AM OSC.
3	SAME AS STEP 1	1400 KHZ	1400 KHZ	ADJUST FOR MAX. OUTPUT.	VCTC ANT. TRIM.
4	SAME AS STEP 1	600 KHZ	600 KHZ	ADJUST FOR MAX. OUTPUT. RDCK TUNING GANG DURING ADJUSTMENT.	T11 AM OSC.

STEP	CONNECTION TO RADIO	DIAL SETTING	DIAL SETTING	SPECIAL INSTRUCTIONS	ADJUST
1	COLLECTOR OF Q1 THRU .01 MF CAPACITOR	10.7 MHZ ±75 KHZ SWEEP	TUNING GANG FULLY OPEN	ADJUST FOR MAXIMUM OUTPUT IN ORDER GIVEN. REDUCE GENERATOR OUTPUT AS NECESS.	T9A, T7, T5 & T4
2	SAME AS STEP 1	10.7 MHZ 30% AM	TUNING GANG FULLY OPEN	ADJUST FOR MINIMUM OUTPUT (A NULL BETWEEN TWO PEAKS)	T9B
3	REPEAT STEPS 1 AND 2 UNTIL NO FURTHER IMPROVEMENT IS OBTAINED.				
4	CONNECT TO ANTENNA TERMINAL THRU 47 OHM RESISTOR	87.5 MHZ ±75 KHZ	TUNING GANG FULLY CLOSED	ADJUST FOR MAX. OUTPUT.	T3 (SEE NOTE "A") FM OSC.
5	SAME AS STEP 4	108.5 MHZ ±75 KHZ	TUNING GANG FULLY OPEN	ADJUST FOR MAX. OUTPUT.	VCTB FM OSC.
6	REPEAT STEPS 4 AND 5 UNTIL NO FURTHER IMPROVEMENT IS OBTAINED.				
7	SAME AS STEP 4	90 MHZ ±75 KHZ	90 MHZ	ADJUST FOR MAX. OUTPUT.	T2
8	SAME AS STEP 4	105 MHZ ±75 KHZ	105 MHZ	ADJUST FOR MAX. OUTPUT.	VCTA