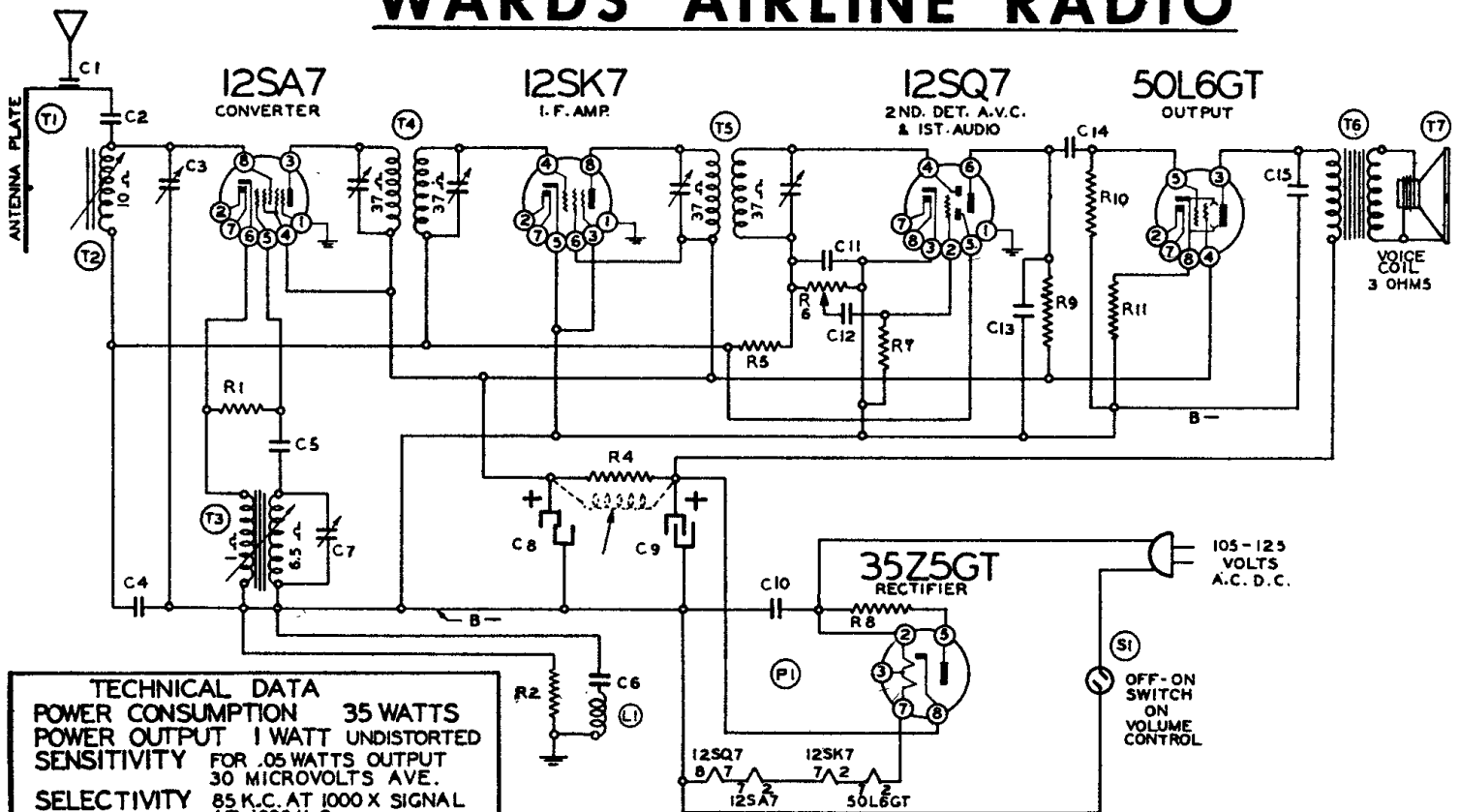


# WARDS AIRLINE RADIO



**TECHNICAL DATA**  
**POWER CONSUMPTION** 35 WATTS  
**POWER OUTPUT** 1 WATT UNDISTORTED  
**SENSITIVITY** FOR .05 WATTS OUTPUT  
 30 MICROVOLTS AVE.  
**SELECTIVITY** 85 K.C. AT 1000 X SIGNAL  
 AT 1000 K.C.  
**TUNING RANGE** 535 TO 1720 K.C.  
**INTERMEDIATE FREQUENCY** 455 K.C.

## RESISTORS

R1 BE130176 20M ohm— $\frac{1}{2}$  w.  
 R2 BE130100 150M ohm— $\frac{1}{2}$  w.  
 R4 BE130279 1M ohm—1 w.  
 R5 BE1304 3 megohm— $\frac{1}{2}$  w.  
 R6 BE101255 500M ohm—Volume  
 control and switch  
 R7 BE130257 5 megohm— $\frac{1}{2}$  w.  
 R8 BE130240 30 ohm— $\frac{1}{2}$  w.  
 R9 BE130100 150M ohm— $\frac{1}{2}$  w.  
 R10 BE13011 250M ohm— $\frac{1}{2}$  w.  
 R11 BE130166 150 ohm— $\frac{1}{2}$  w.

C1 BE131262 .00001 washer condenser  
 (antenna clip on back plate)  
 C2 BE129114 .0003 mica  
 C3 BE124137 Trimmer on antenna coil  
 C4 BE1009 .05 x 200 v.  
 C5 BE12939 .00005 mica  
 C6 BE10091 .15 x 400 v.  
 C7 BE124137 Trimmer on oscillator coil  
 C8 BE11992 20 Mfd. lytic x 150 w.v.  
 C9 BE11992 40 mfd. lytic x 150 w. v.  
 C10 BE10013 .05 x 400 v.  
 C11 BE12912 .00025 mica  
 C12 BE10025 .002 x 600 v.  
 C13 BE1292 .0005 mica  
 C14 BE10011 .01 x 400 v.

## CONDENSERS

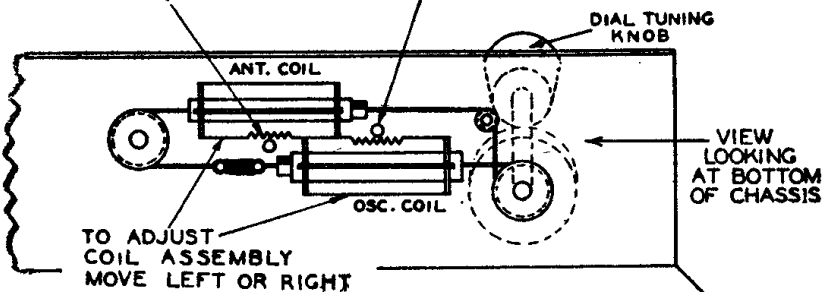
C15 BE10026 .02 x 400 v.

C3 and C7 are in same unit  
 C8 and C9 are in same unit

## PARTS

T1 BE115597-18 Antenna plate (Walnut)  
 or BE115597-9 Antenna plate (Ivory)  
 T2 BE111181 Antenna permeability coil  
 T3 BE110153 Oscillator permeability coil  
 T4 BE108157-H Input I.F. coil—455 kc.  
 T5 BE108157-I Output I.F. coil—455 kc..  
 T6 BE105128 Output transformer  
 T7 BE114199 4" PM speaker  
 or  
 T7 BE114259 4" Electrodynamic speaker  
 S1 Switch on Volume control  
 L1 BE105138 R.F. choke

NOTE "A" THE ANTENNA COIL ASSEMBLY IS MADE SO THAT IT IS MOVABLE LEFT OR RIGHT. WHEN MAKING THE ADJUSTMENT AS GIVEN IN THE ALIGNMENT PROCEDURE MOVE THE COIL ASSEMBLY VERY SLOWLY. IT CAN BE MOVED BY HAND OR BY PIVOTING ONE EDGE OF THE BLADE OF A SCREWDRIVER IN THE HOLE AND ENGAGING THE BLADE IN THE GEAR TEETH OF THE COIL FORM.



## COIL ASSEMBLY VIEW

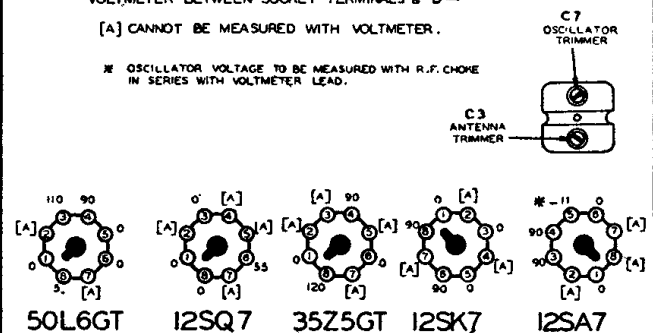
**MODEL 14BR-521A**  
**MODEL 14BR-522A**

## BOTTOM VIEW OF CHASSIS

VOLTAGES MEASURED WITH A HIGH RESISTANCE VOLT-METER BETWEEN SOCKET TERMINALS & B—

[A] CANNOT BE MEASURED WITH VOLT-METER.

\* OSCILLATOR VOLTAGE TO BE MEASURED WITH R.F. CHOKE IN SERIES WITH VOLT-METER LEAD.



REAR OF CHASSIS

VOLTAGE CHART