

RCA VICTOR

Battery Personal Receiver

MODELS 8B41, 8B42, 8B43

Chassis No. RC-1069, RC-1069A, RC-1069B

Alignment Procedure

Output Meter.—Connect meter from top lug of TB5 (plate of 3S4) to ground. Turn volume control to maximum position.

Test-Oscillator.—For all alignment operations, connect the low side of the test-oscillator to the receiver chassis, and keep the oscillator output as low as possible to avoid a-v-c action.

Alignment Shield.—It is necessary to use a shield during oscillator alignment.

Fig. 3 shows the modifications necessary to convert the center strip portion of a case into a convenient shield to be used as a substitute for the regular case center strip during oscillator alignment.

If a substitute case is not available, a shield may be improvised using a sheet of aluminum (DO NOT USE STEEL) to approximate the shielding effect of the case on the 1R5 tube, tuning condenser and oscillator coil.

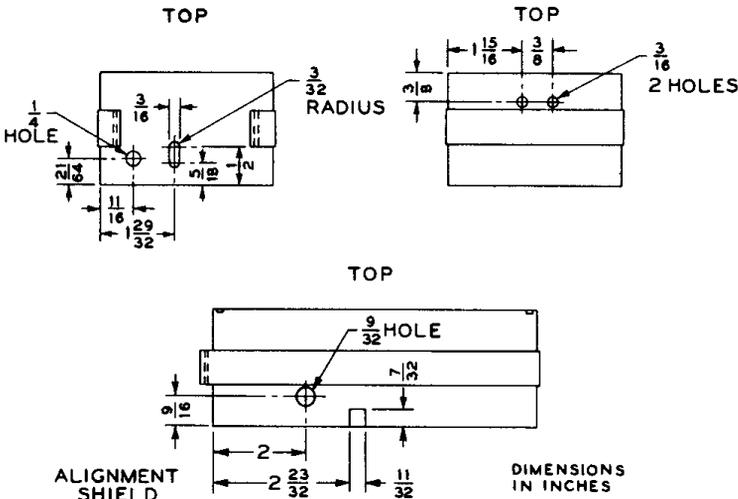
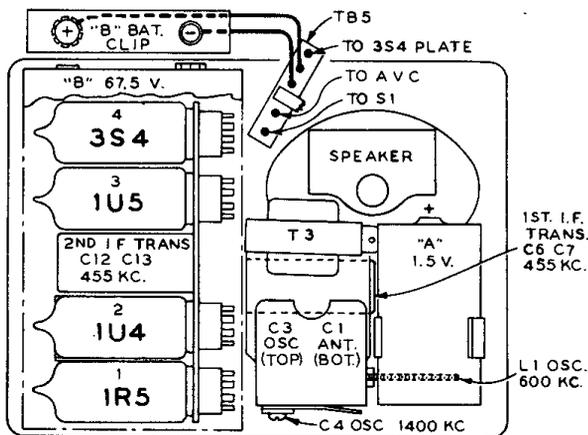


Fig. 3—Alignment Shield

Steps	Connect the high side of test osc. to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output—
1				C12, C13 2nd I-F trans.
2	Connection lug of C1 located on rear of gang in series with .01 mf.	455 kc	Quiet point near 1,600 kc	C6, C7 1st I-F trans.
3	Repeat steps 1 and 2			
4		1,400 kc	14 Rock gang	C4 (osc.) †
5	*Antenna coupling loop	600 kc	60 Rock gang	L1 (osc.) †
6	Repeat steps 4 and 5			

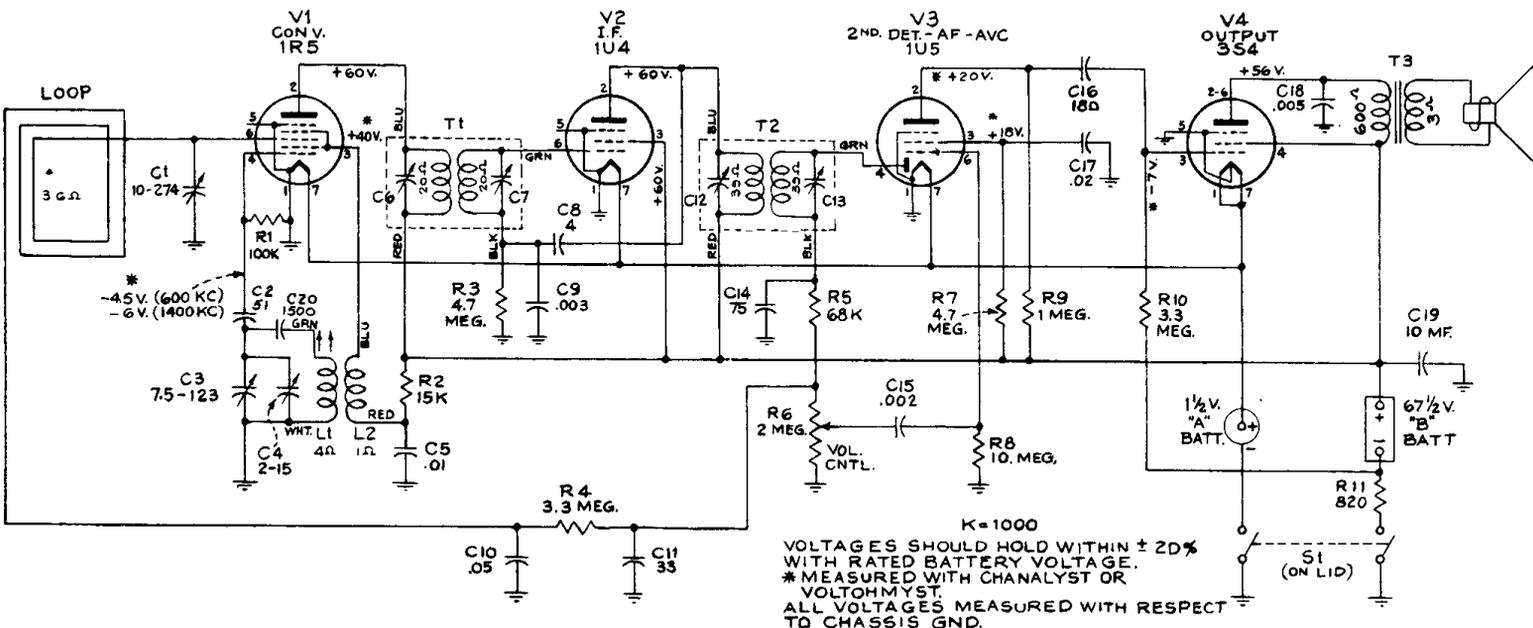
* Steps 4 and 5 require a coupling loop from the signal generator to feed a signal into the receiver loop located in the lid. This loop should be loosely coupled to the receiver loop antenna so as not to disturb the receiver loop inductance.

† ALIGNMENT SHIELD MUST BE USED. (See text.)



A rubber band should be placed around each tube for cushioning.

Fig. 5—Tube and Trimmer Locations



K=1000
VOLTAGES SHOULD HOLD WITHIN ± 20% WITH RATED BATTERY VOLTAGE.
* MEASURED WITH CHANALYST OR VOLTHMYST.
ALL VOLTAGES MEASURED WITH RESPECT TO CHASSIS GND.