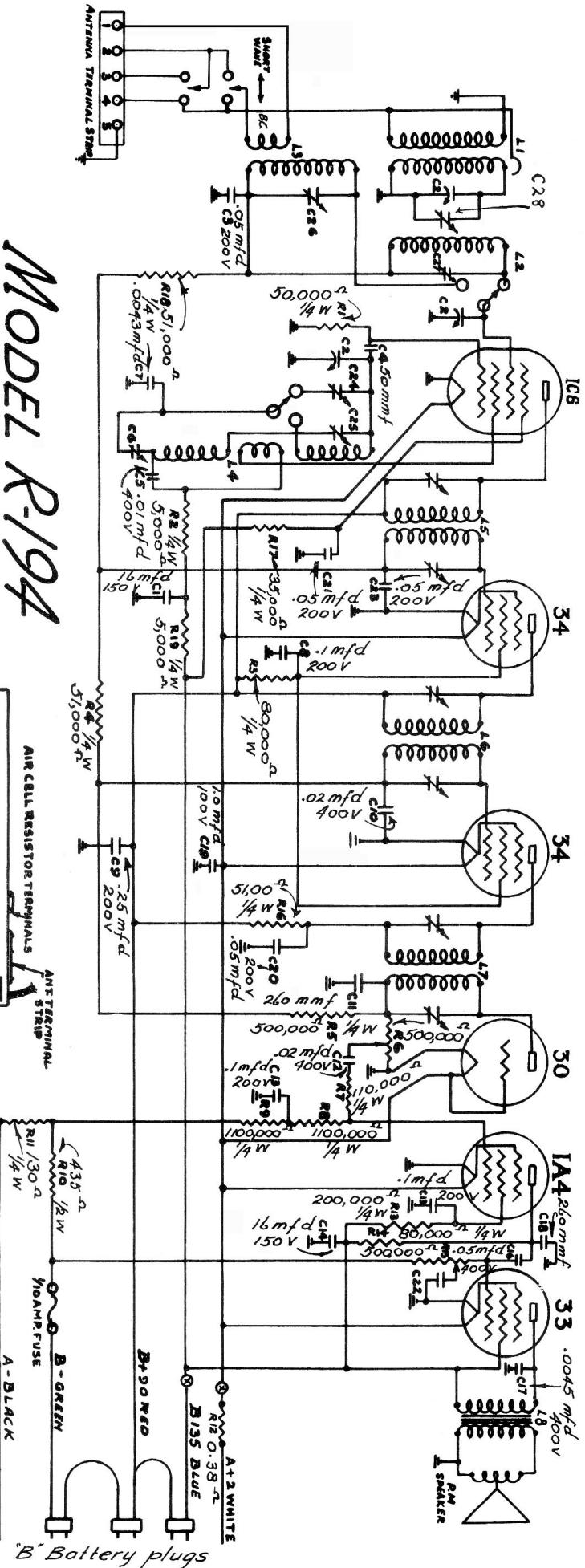


I.F. = 370 Kc.



MODEL R-194

Alignment—The alignment operation can all be performed without removing the chassis from the cabinet.

(a) Connect an output meter to the speaker terminals or between plate and screen of the output tube.

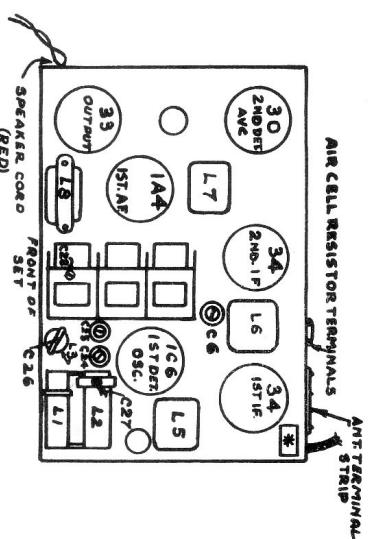
(b) Connect a 370 K.C. oscillator between the grid cap of the IC6 first detector and ground. Make sure that there is a condenser (approximately .02 mfd) in the oscillator leads so that the 1-C-6 grid is not shorted to the ground and the bias upset.

(c) With the volume control full on, align the I.F. stages beginning with the last and working forward, keeping the input signal low enough so that the lowest practical output reading is obtained. Particular care must be taken in aligning the I.F. because these circuits are very selective. If the alignment was very far out repeat the above operation. This alignment should be carried out with the range switch in the "broadcast band" position and the gang condenser set about 1400 K.C.

(d) Transfer the oscillator leads to the antenna and ground and tune it to 1400 K.C. With the range switch in the "broadcast position" set the dial on the receiver to 1400 K.C. and adjust C24, C27 and C28 in that order for maximum output. Keep the input from the oscillator as low as possible as before.

(e) Adjust the receiver and oscillator in tune at 550 K.C. and align C6 for maximum output, rocking the tuning condenser back and forth slightly while aligning.

Battery Operated



1936-37

SHOOT THE AIR CELL TERMINALS ON BACK OF CHASSIS ONLY WHEN AN AIR CELL BATTERY IS USED. IF ONLY TWO B BATTERIES ARE USED, PLACE THE PLUG MARKED "B-13.5" IN THE SOCKET ON THE BACK OF THE CHASSIS.

TUBE	CIRCUIT LOCATION	FIL.	PLATE/SCREEN BIAS
IC6	1ST. DETECTOR OSC.	2	.51000 400
34	1ST. I.F.	2	.61 25 0
34	2ND. I.F.	2	.76 25 0
1A4	1ST. AUDIO	2	.38 31 24
33	OUTPUT	2	.76 82 -85%
30	2ND. DET.	2	- - +2

MEASURED WITH A 1000 OHMS PER VOLT METER.
* MEASURED ACROSS R11.
ALL VOLTAGES MEASURED FROM TUBE SOCKET TO GROUND USING 90 VOLTS OF B BATTERY & ANTENNA SHORTED TO GROUND.
B BATTERY CURRENT = 15 MA WITH 90V & 23 MA WITH 135V.

DATA SHEET

COURTESY - STEWART-WARNER-39
ALEMITE CORP. LTD.