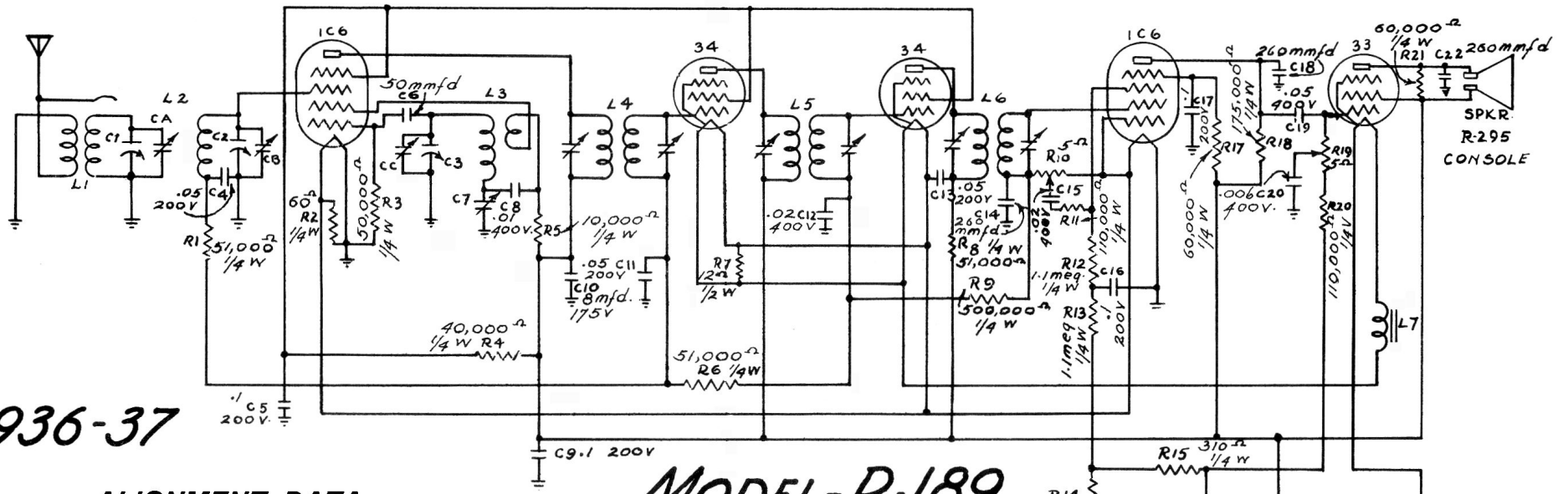
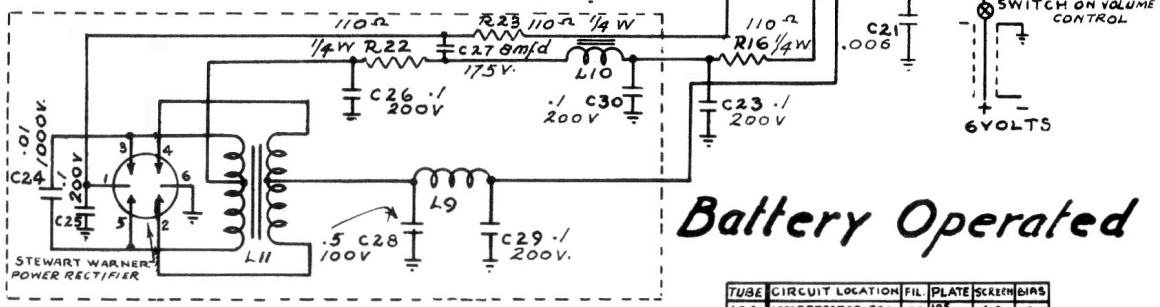



# 1936-37

# MODEL-R-189




## ALIGNMENT DATA

**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 1C6 first detector and ground Make sure that there is a condenser (approximately .02mfd) 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 gang condenser set about 1400 K.C.

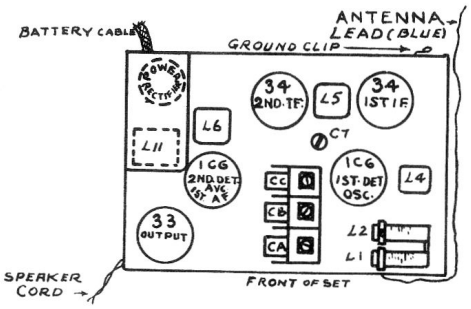
(d) Transfer the oscillator leads to the antenna and ground and tune it to 1400 K.C. Set the dial on the receiver to 1400 K.C. and adjust Cc, Cb and Ca in that order for maximum output. Keep the input from the oscillator as low as possible as before.

(e) Adjust the receiver and oscillator in tune at 550 K.C. and align $C_7$ for maximum output, rocking the tuning condenser back and forth slightly while aligning.

(f) If an appreciable change in $C_7$ was necessary operation (d) should be repeated.

RECTIFIER SOCKET (BOTTOM VIEW)

# IF-370 Kc.




# Battery Operated

| TUBE | CIRCUIT LOCATION | FIL. | PLATE | SCREEN | BIAS |
|---|---|---|---|---|---|
| 1C6 | 1ST. DETECTOR OSC. | 1.92 | 105 OSC. 78 | 40 | -1.92‡‡ |
| 34 | 1ST. I F | 1.92 | 105 | 40 | -1.92‡‡ |
| 34 | 2ND. I.F. | 1.92 | 97 | 40 | -1.92‡‡ |
| 1C6 | 2ND. DET.-AVC-1ST. AUDIO | 1.92 | 45 | 25 | -1.4‡ |
| 33 | OUTPUT | 1.92 | 102 | 105 | -10.5* |

MEASURED WITH A 1000 OHMS PER VOLT METER FROM TUBE SOCKET TO GROUND EXCEPT,–

‡‡ Measured From (–) Fil. to ground

‡ Measured Across R14

* Measured From (–) to Junction of R15 & R20

Drain from 6 Volt Battery = .98 Amp.

# DATA SHEET

# STEWART-WARNER-36

COURTESY- ALEMITE CORP. LTD.