

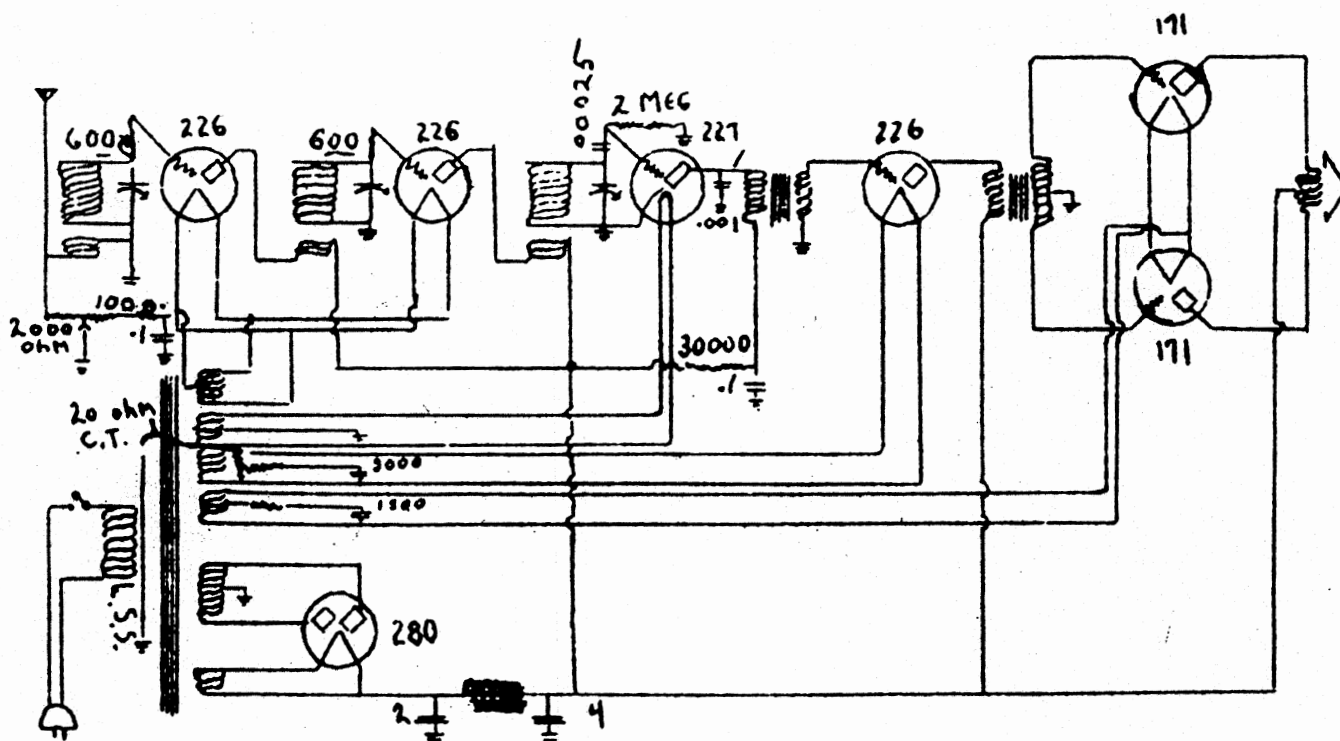
## MODEL 59—JACKSON-BELL RECEIVER

This is a tuned radio frequency circuit, using 26 tubes as radio frequency amplifiers, grid leak detector, using a 27 tube; two stages of audic, transformer coupled; 26 in first stage and two 71's in push-pull in the last stage and a full wave rectifier. Volume is controlled by variable R.F. bias and antenna shunt.

R.F. Filament	1.3	Volts
R.F. Plate	200	"
R.F. Bias	19	"
Detector Plate	60	"
Detector Filament	2	"
First Audio Plate	200	"
First Audio Bias	15	"
First Audio Filament	1½	"
Push-Pull Plate	175	"
Push-Pull Bias	45	"
Push-Pull Filament	4.3	"

All measurements taken with volume control at maximum.

LEVEL SPRING



LATE 1929

## JACKSON BELL, Ltd.

W3XAL — Boundbrook, N. Y.  
W2XE — Long Island, N. Y.  
FC310 — Saigon-Indo, China

### BAND No. 3

100 Meters  
Airplane Phones  
120-175 Meters  
Police Calls

### TROUBLES

Be sure broadcast receiver is set to 840 KC or thereabouts.

Check tubes. A slightly flat 27 tube may refuse to oscillate on short wave.

Check continuity from short-wave 24 controlled grid to ground on all short wave bands. Also 27 short-wave oscillator grid to ground on all bands.

Check 24 plate screen voltage. No plate voltage indicates an open plate choke. If the screen voltage is the same as plate voltage it indicates a 27 tube is not oscillating or drawing plate current.

To check the 27 oscillator tube set dial at approximately 35 meter reading the 24 screen voltage and touching the grid winding of the oscillator with the finger. The screen voltage should rise approximately 20 volts.

Check coupling condenser from plate to antenna lead to broadcast set.

Check all connections on wave switch selector by continuity.

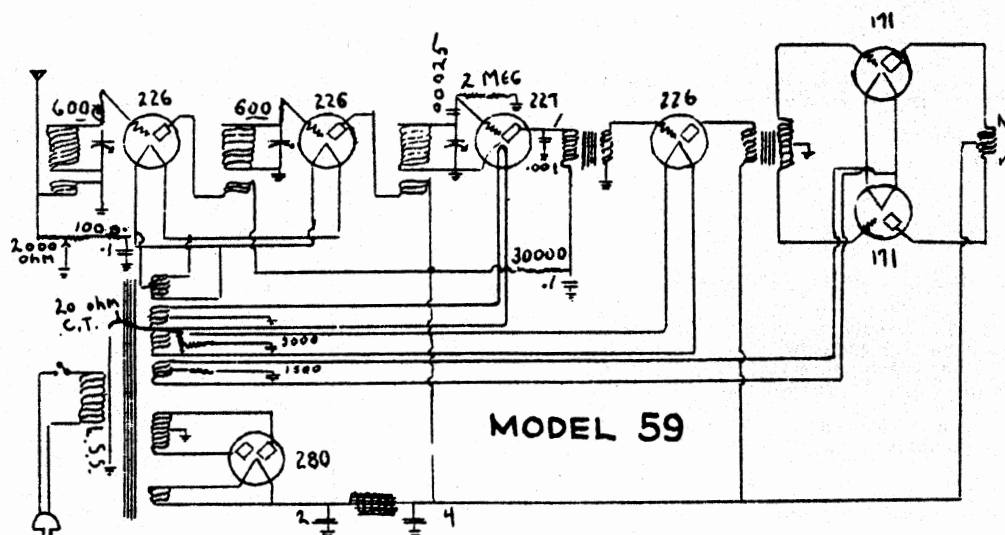
### ALIGNMENT

In aligning short-wave converter the coils are designed at practically no plate bending is necessary.

Place set in operating position and with scale on dial at first position (200 to 300) set external oscillator at 1710 KC and adjust oscillator trimmer on variable (oscillator trimmer is the second section from front of set), to correspond with this setting on dial. Next adjust front trimmer to resonant to maximum out-put.

You will find that setting short-wave at this point will make the dial line up on all scales.

In tuning short-wave converter be sure and turn tuning control slowly as stations are extremely sharp.



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VOLUME

