

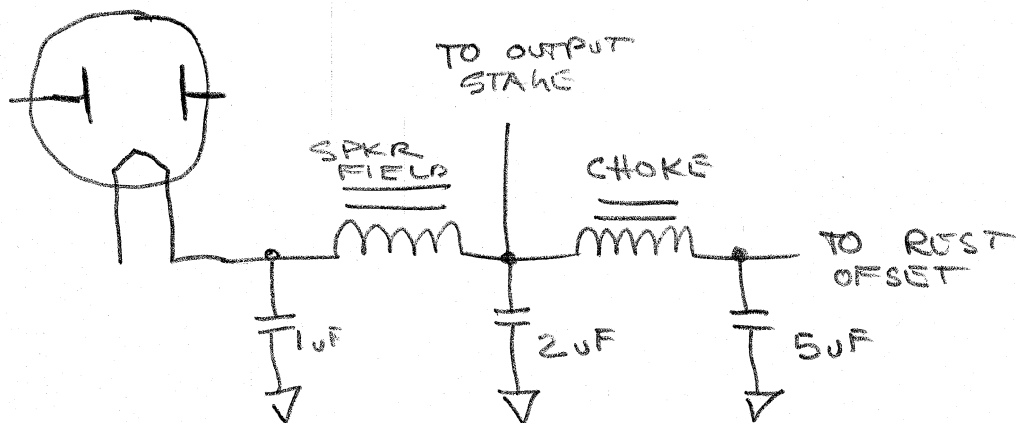
SEVERAL VERSIONS / VARIATIONS
DEPENDING ON HOW YOU COUNT!

* TWO DIFFERENT COIL SETS
OLD → NEW

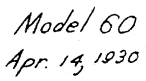
* REDUCED VALUE OF FIRST
GRID RESISTOR

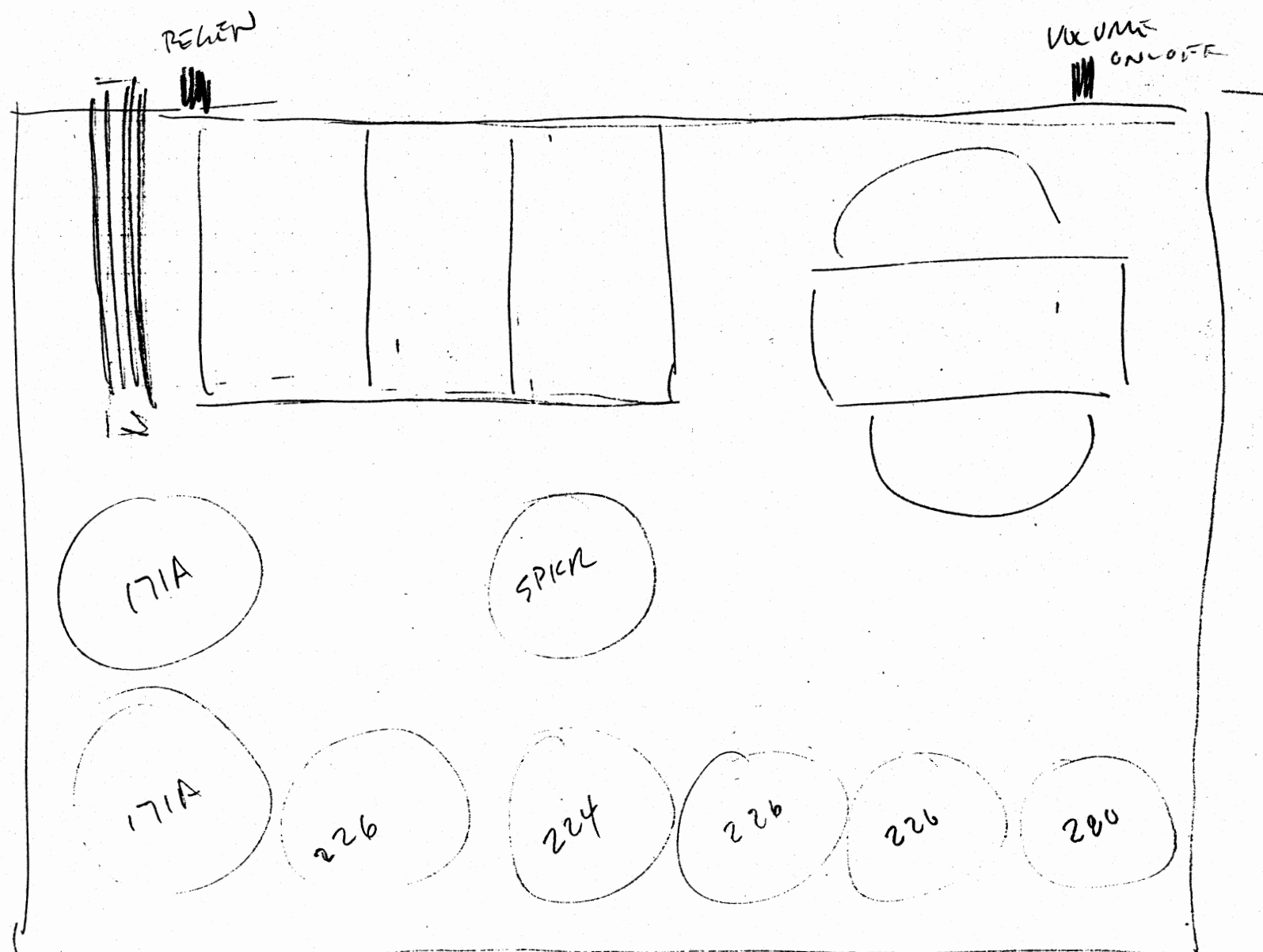
(THE ABOVE CHANGES PRESUMABLY
TO IMPROVE SENSITIVITY)

* ALTERNATE POWER SUPPLY
WITH ADDITIONAL CHOKES &
THREE CAPACITORS



MODEL 60
Schematics





JB 60

VOLTAGE AND CURRENT VALUES - MODEL 60 RECEIVERS

The following values are correct with 1000 ohm speaker field and 110 volts A.C. on the line, or 125 volts on the line when power transformer is thus connected. With volume control at half way position the following voltages should be indicated from ground:

To 280 filaments, 240 volts
To low side of choke, 180 "
To detector screen grid, 26 to 32 volts
To 171 filaments, 30 volts
To R.F. Filaments, 10 to 15 volts

As volume control is rotated from maximum to minimum

The following values of plate current should be read within 20%:

R.F. .00025 to .005 amperes as volume control is rotated
from minimum to maximum.
Detector 80 to 100 micro amperes.
First audio .002 amperes.
Second audio .017 to .020 amperes.

CONTINUITY TESTS:

The following resistance values should be observed when making continuity tests without removing the chassis from the cabinet:

R.F. Grid to ground, 800 ohms.
R.F. Plate to ground, 25000 "
R.F. Filament to ground, 1100 to 3200 ohms
as volume control is shifted from maximum to minimum
Detector grid to ground, 1 ohm
Detector screen grid to ground, 3000 "
Detector cathode to ground, 20000 "
Detector filament to ground, 0
First audio grid to ground, 2 meg
First audio filament to ground, 5000 ohms
First audio plate to ground, 45000 "
Second audio grid to ground, 1500 "
Second audio filament to ground, 750 "
Second audio plate to ground, 25000 "

COILS:

Effective immediately, specifications of the radio frequency transformers used in the Model 60 receiver are changed to the following:-

Primaries, 16 turns
Secondaries, 81 "
Circuit inductance,240 microhenries

The overall gain throughout the radio frequency amplifier with the new coils is approximately 300% greater than with the old ones. The substantial increase of sensitivity should, therefore, be observed.

When orders for replacement coils are filled they will always be in complete sets of three and of new type.

GRID SUPPRESSORS

Service notes and circuit print of this receiver show 2 - 800 ohm grid suppressors. The grid suppressor of the first radio frequency stage has been reduced to 500 ohms. The second one remains 800.

FILTER SYSTEM:

Specifications of this receiver call for 2 - 8 microfarad electrolytic condensers in the filter. At times when the factory has been unable to obtain these electrolytic condensers it has been necessary to substitute paper condensers and an additional filter choke. The value of the units in the paper condenser block is as follows:

When the block is fastened in the chassis and the chassis is viewed in an inverted position, the bottom terminal is five microfarads, the center terminal one microfarad and the top terminal two microfarads. Only a limited number of these have been installed and regular production will continue to contain the electrolytic condensers.

VARIOUS VERSIONS