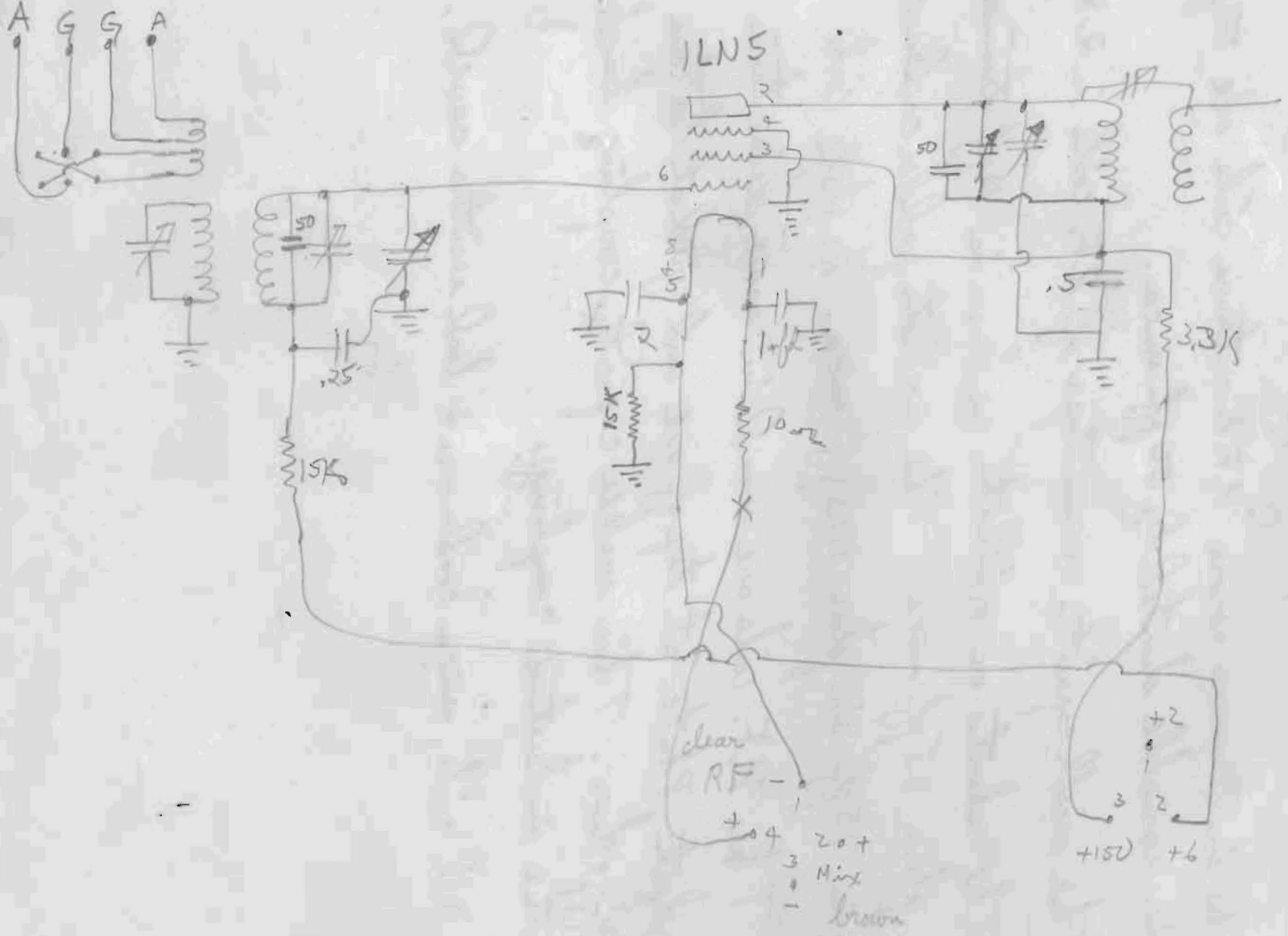
R. F. Amp.

11/4/57



(over)

14 May 62

Took R.F. and oscillator coils out of chassis.

The air trimmers across R.F. & antenna coils are 50 pf air variable shunted by 50 pf mica.

The small capacity across tops of R.F. coils is 2.8 pf.

The shunt on oscillator condenser is 10 pf trimmer plus 85 pf mica. The oscillator padder condenser is 75 pf air plus 103 pf mica. No plate coil.

The R.F. coils are wound in same direction but Plate at top of one and grid at bottom of other. This makes capacity coupling bucks the inductive coupling.

all coils, mica condensers & load resistors saved.

Mixer

11/4/57

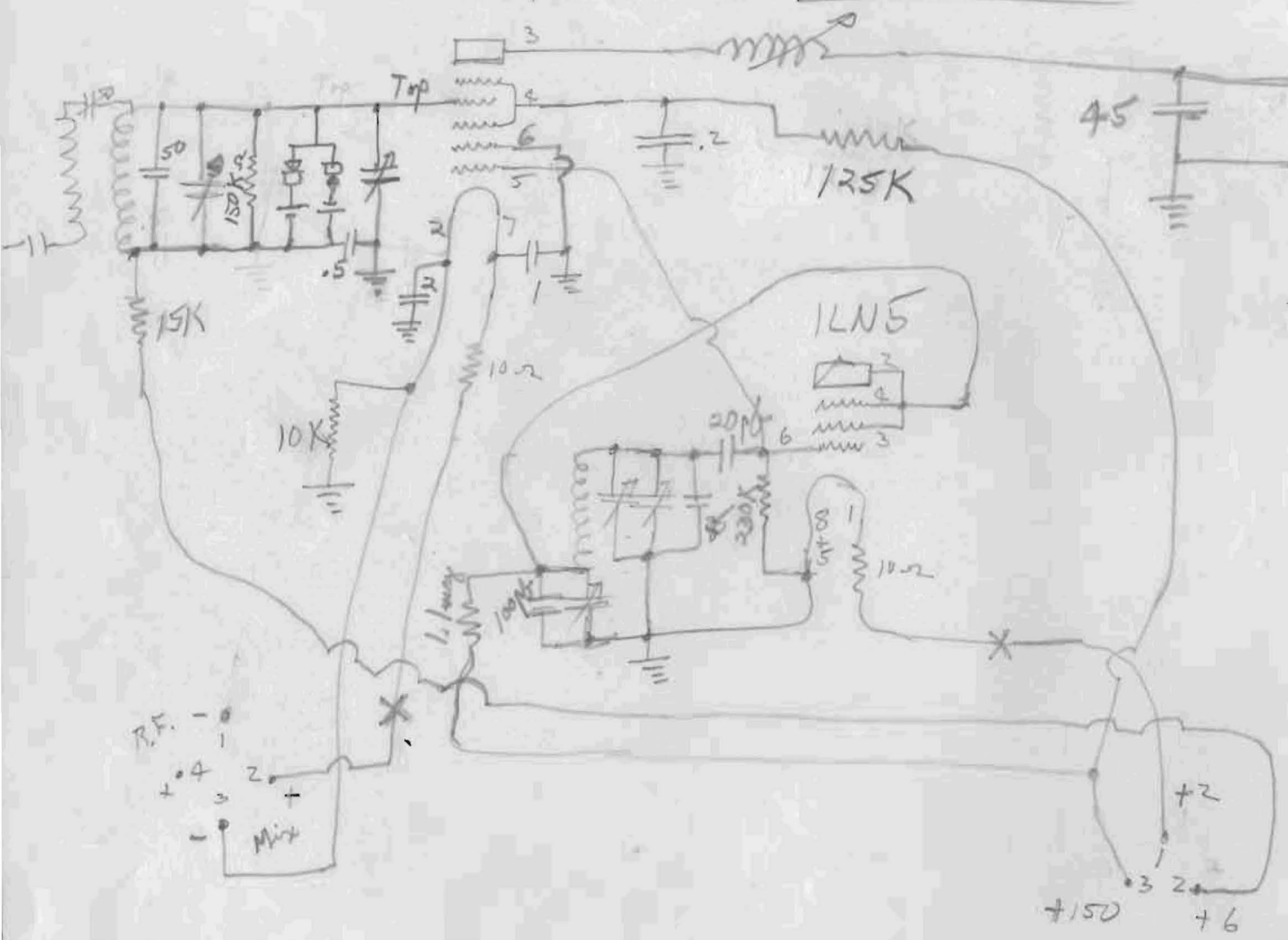


Plate = Blue-white
Grid = Green white
Screen = Orange white
Fil (-) = Purple white
Fil (+) = Brown white
Gnd = black white
150 V B+ = Red
6 V B+ = green

19/5/62

140 KC antenna primary $3\frac{11}{16}$" long, $2\frac{1}{4}$" dia, 311 turns

$\ell/d = 1.64$, $n = 311$, $L/d = 1150$ $L = 2590\,\mu h$.

End of coil $2\frac{1}{16}$" inside the outer face of al. box.

Desired inductance $1850\,\mu h$.

$\frac{2590}{1850} = 1.40$ times due to effect of shield can.