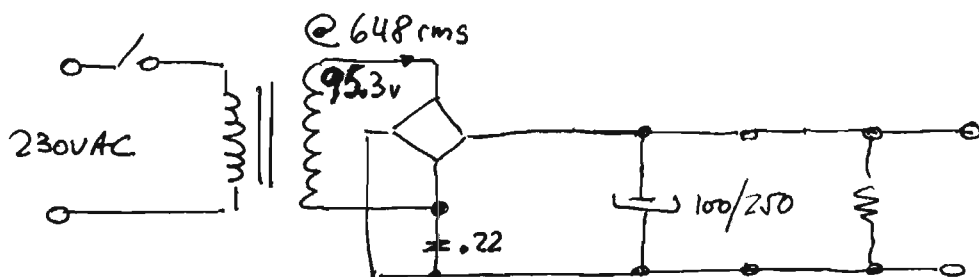
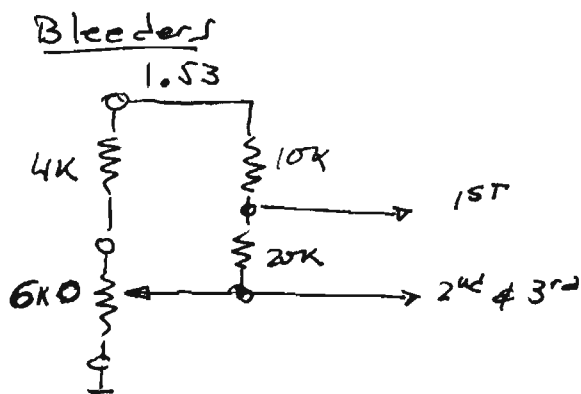
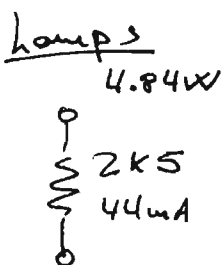
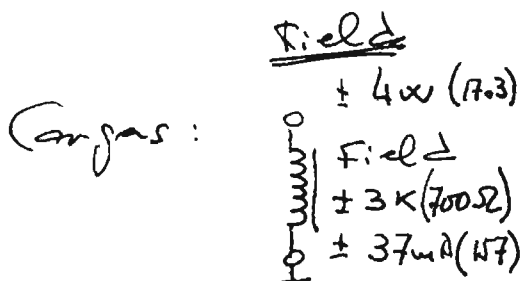


FA para Atwater Kent 61

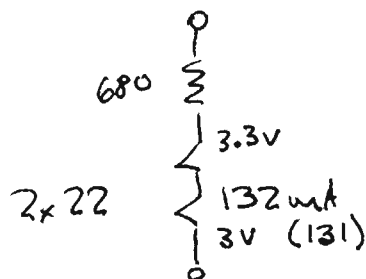


SIN CAMPO ALTA VOZ

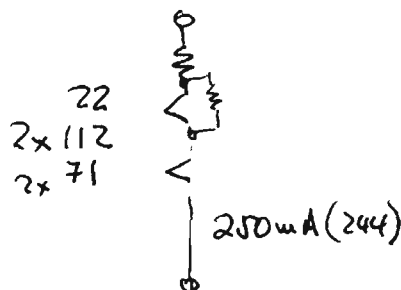
110V? @ 364mA
 $110 \times 0.364 = 40.04 \text{ W}$



OK Fil's
 14.5W

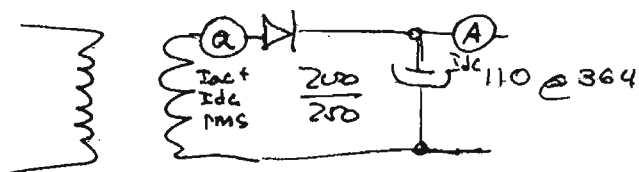


Fil's
 27.5W

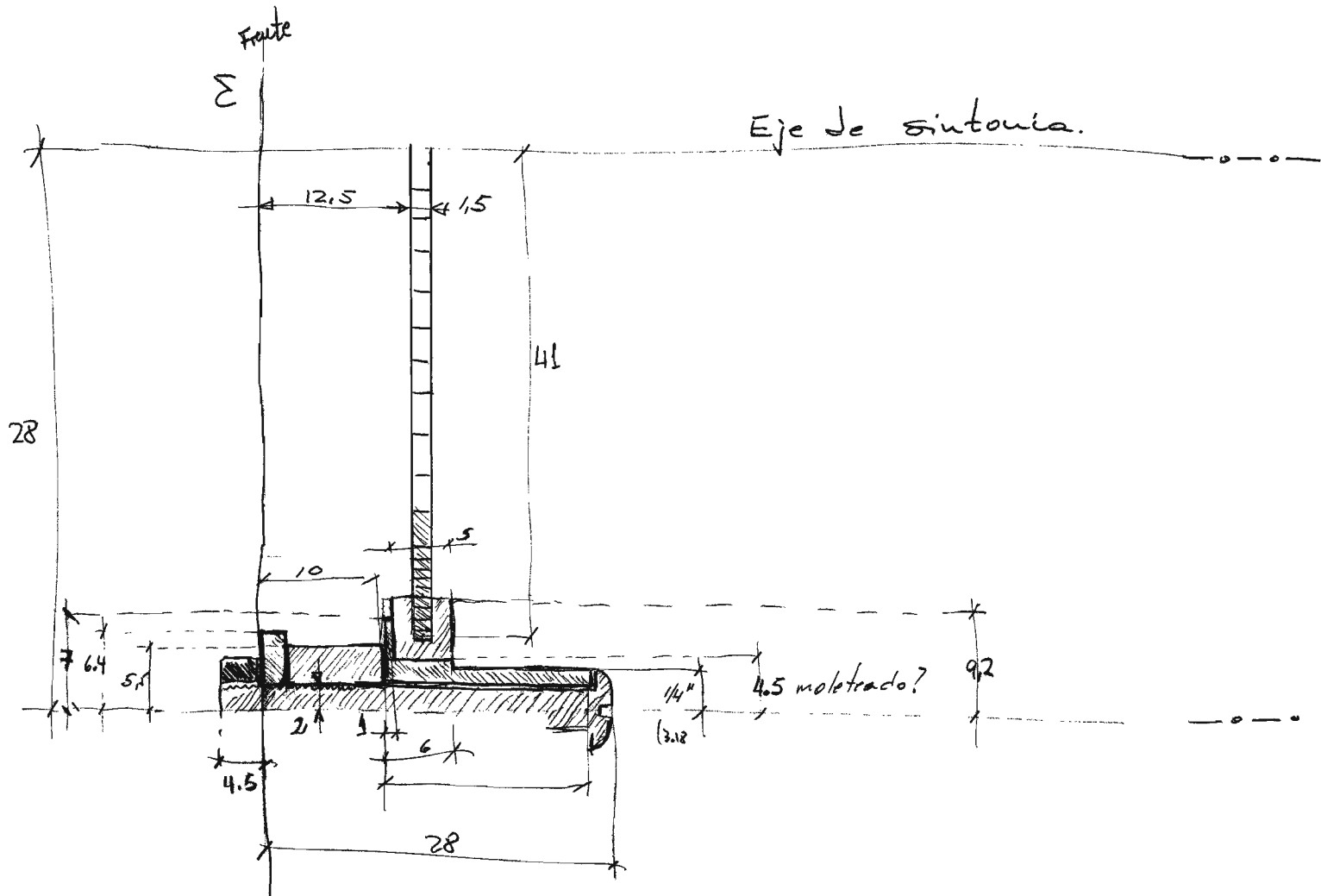


| | | | | |
|--------------------|----------|-------|--------|---------------|
| Sin ALT ni LAMP | @ 110VDC | 14mA | ± 7K R | (entre + & -) |
| Pong 1R+2R | " | 145.4 | ± 754 | en Prio " |
| Pong la otra cable | " | 258 | ± 410 | " " " |

Vac rms 91.6 481 (I_{ac} + I_{dc}) rms



Como exper.
 para calculo
 de X pos



ATWATER KENT RADIO MODEL 61 AND 61-C

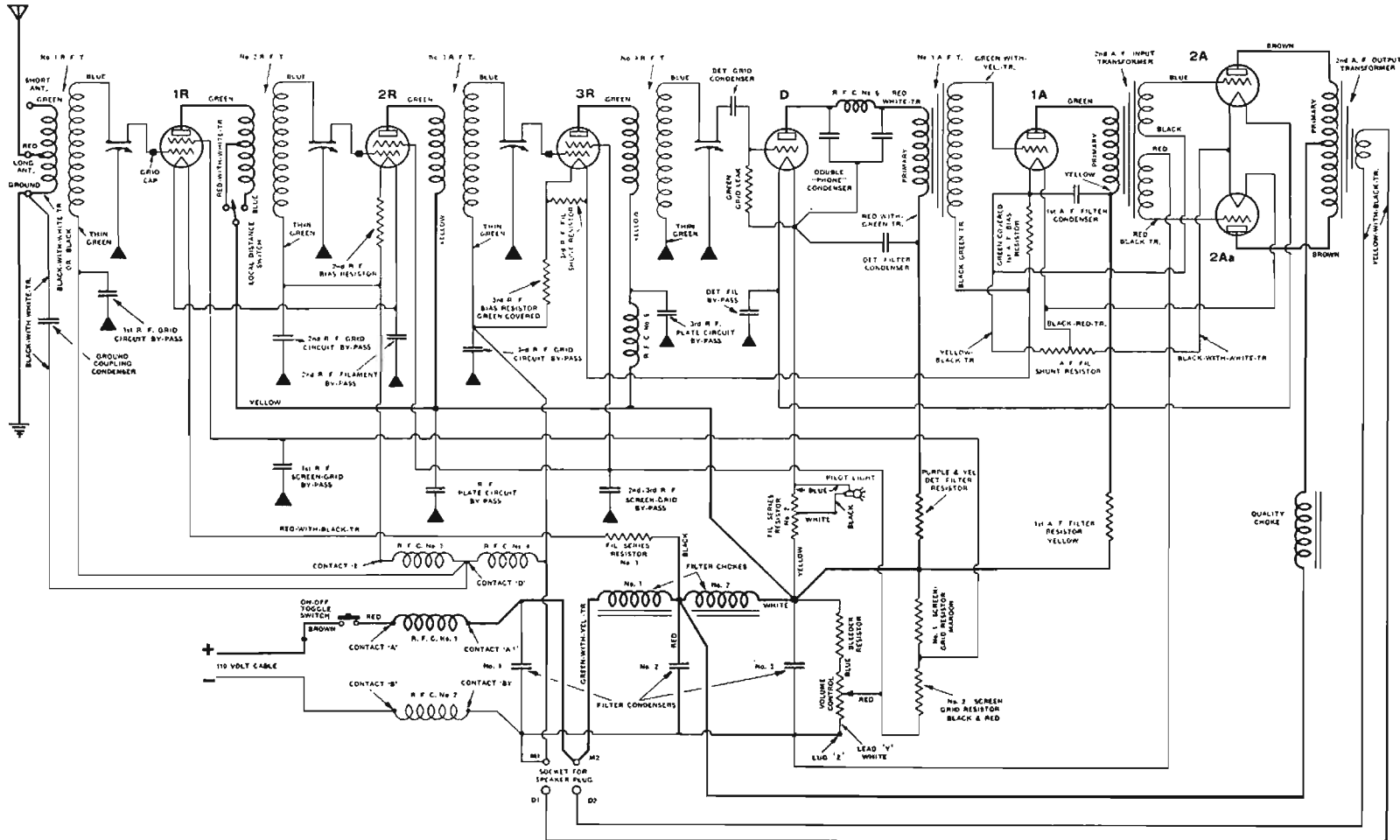


FIG. 140. DIAGRAM OF EARLY MODEL 61 AND 61-C (DIRECT CURRENT).

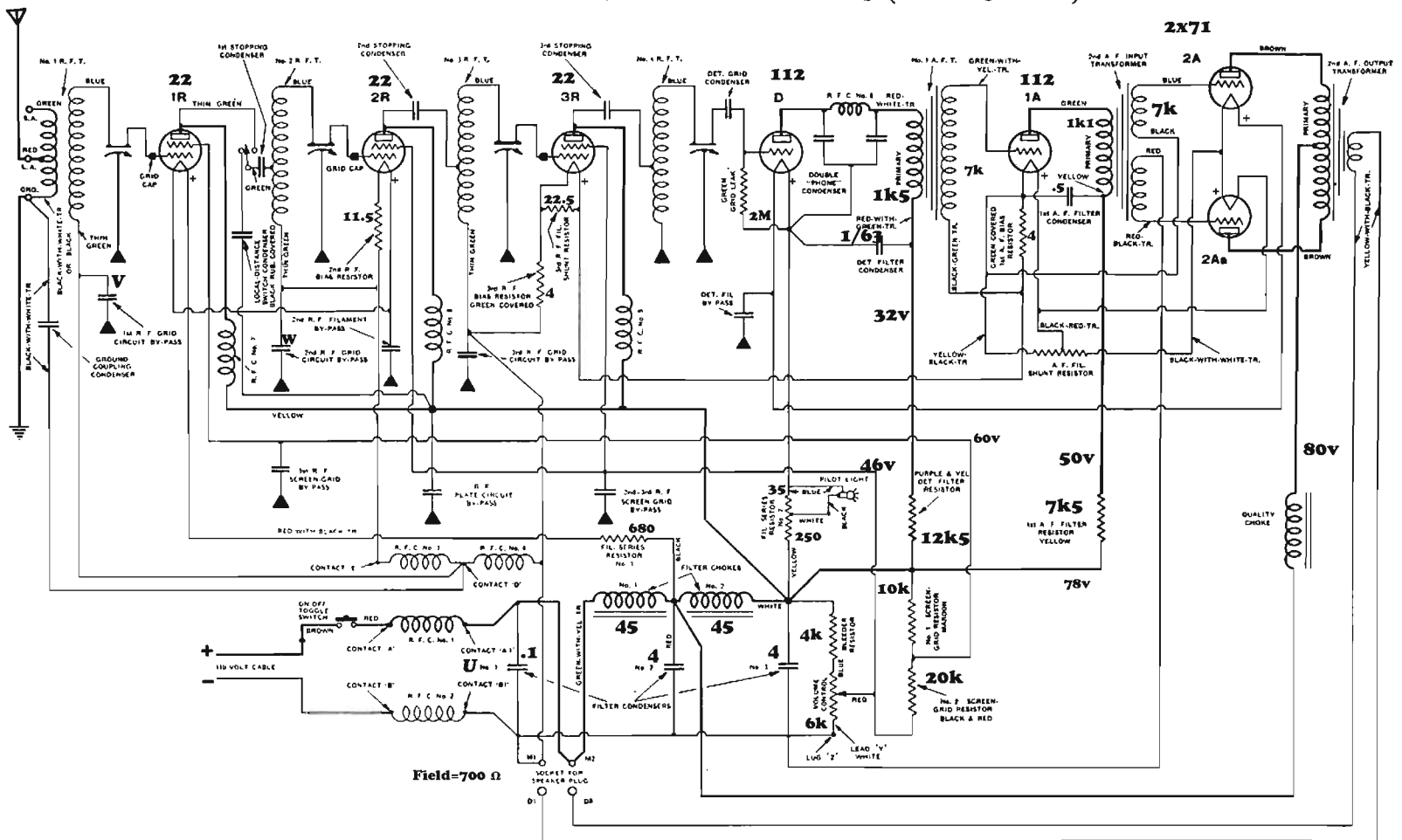
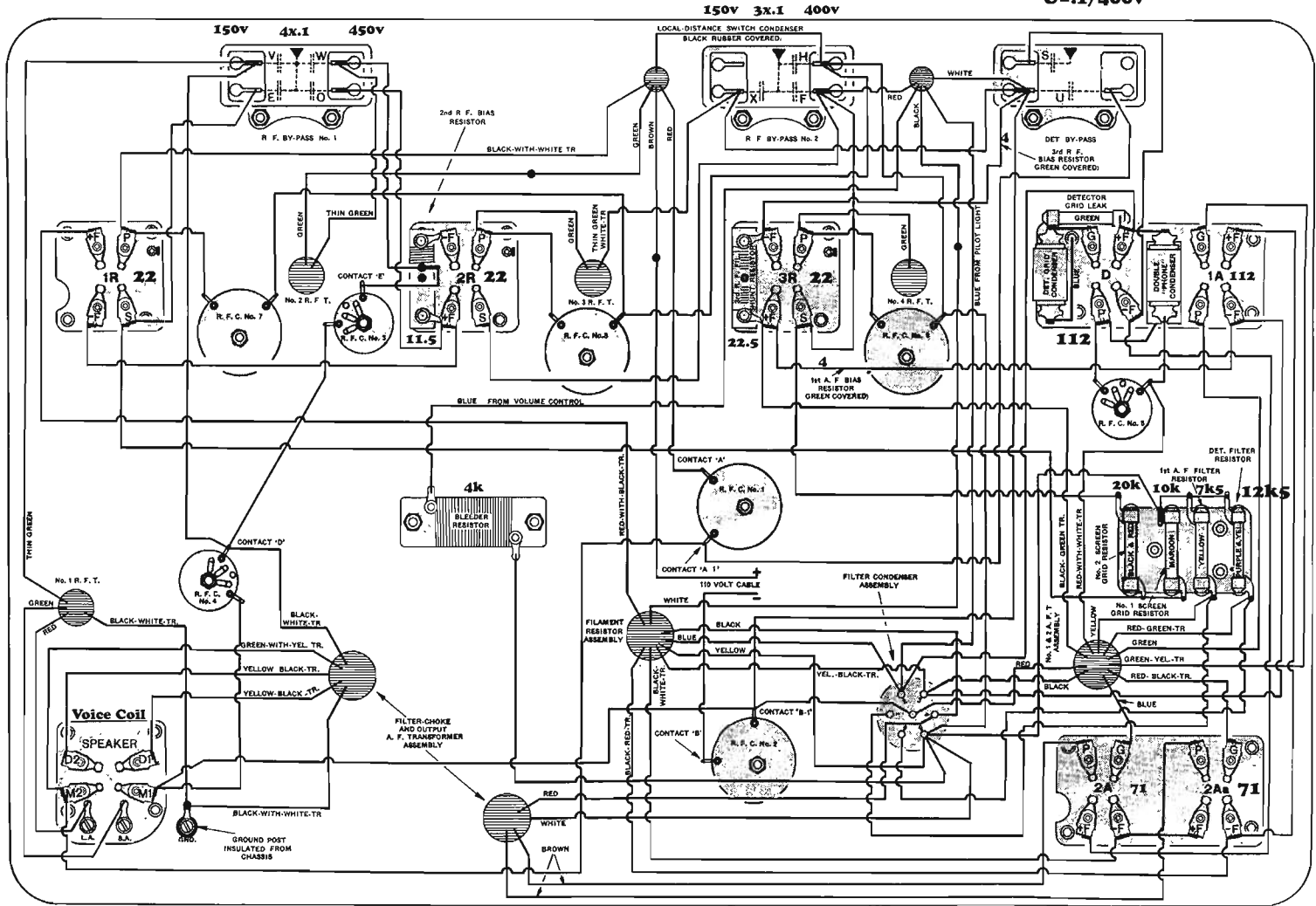


FIG. 141. SCHEMATIC DIAGRAM OF LATER MODEL 61 AND 61-C (DIRECT CURRENT).

Note that R. F. C. No. 5, in diagram of early Model 61 and 61-C above, is omitted from the later Model, and the number (R. F. C. No. 5) is skipped to avoid confusion.

S-3/150V
U=.1/400V



ATWATER KENT RADIO
MODEL 61 AND 61-C (Later Type)

FIG. 145. BOTTOM WIRING OF LATER-TYPE MODEL 61 AND 61-C.

MODEL 61 AND 61-C (Later Type)

Connections of R. F. Coil Group No. 17095

The colors of the leads to the variable condensers are in some cases different from those specified below.

No. 1 R. F. T.

Thin green to by-pass V.
Blue to stator No. 1 V.C.
Thick green to Short-Antenna.
Red to Long-Antenna.
Black-with-white-tr. or plain black, to ground post.

No. 2 R. F. T.

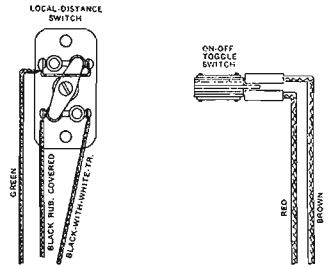
Thin green to by-pass W.
Blue-white-tr. to stator No. 2 V.C.
Thick green to green lead from local-distance switch. (The end of this green lead is stripped of insulation but the strands of wire are NOT soldered.)

No. 3 R. F. T.

Thin green or green-with-white-tr. to by-pass X.
Blue to stator No. 3 V.C.
Thick green to P2R. (The end of this lead is stripped of insulation and the strands of wire are soldered.)

No. 4 R. F. T.

Blue (1") to chassis.
Blue-white-tr. (5") (with lug) to stator No. 4 V.C.
Blue (without lug) from stator No. 4 V.C. to detector grid condenser.
Thick green to P3R.



Condensers in R. F. By-Pass No. 1

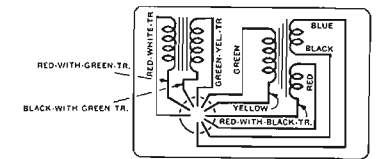
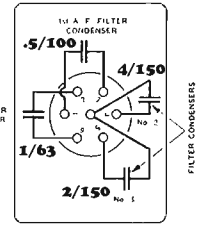
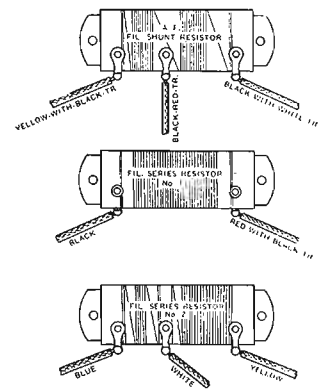
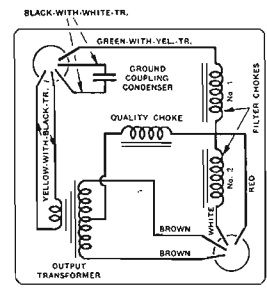
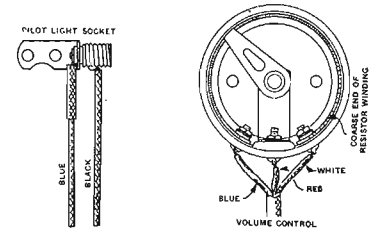
- E—1st-R. F. screen by-pass.
- O—2nd-R. F. filament by-pass.
- V—1st-R. F. grid-circuit by-pass.
- W—2nd-R. F. grid-circuit by-pass.

Condensers in R. F. By-Pass No. 2

- F—2nd-3rd-R. F. screen by-pass.
- H—R. F. plate-circuit by-pass.
- X—3rd-R. F. grid-circuit by-pass.

Condensers in Detector By-Pass

- S—Detector filament by-pass.
- U—Filter condenser No. 1.



FILTER CHOKES & OUTPUT TRANSFORMER ASSEMBLY

FILAMENT RESISTOR ASSEMBLY

100 A F FILTER CONDENSER ASSEMBLY

No. 1 & 2 A. F. T ASSEMBLY

FIG. 144. CONNECTIONS OF UNITS IN LATER-TYPE MODEL 61 AND 61-C.

On some volume controls for Model 61 and 61-C, a white-with-black-tracer lead is used in place of a white lead.
See Page 106 for simplified power-unit circuit of Model 61 and 61-C.

MODEL 61 AND 61-C (Early Type) Connections of R. F. Coil Group No. 16469

No. 1 R. F. T.

Thin green to by-pass V.
Blue to stator No. 1 V. C.
Thick green to Short-Antenna.
Red to Long-Antenna.
Black-white to ground post.

No. 2 R. F. T.

Thin green to by-pass W.
Blue (with lug) to stator No. 2 V. C.
Thick green to P1R.
Thick blue and red-white to leads of corresponding color from local-distance switch.

No. 3 R. F. T.

Thin green to by-pass X.
Thick green to P2R.
Blue to stator No. 3 V. C.
Yellow to by-pass H.

No. 4 R. F. T.

Thin green to chassis.
Thick green to P3R.
Blue (with lug) to stator No. 4 V. C.
Blue to detector grid condenser.
Yellow to R. F. C No. 5.

Condensers in R. F. By-Pass No. 1

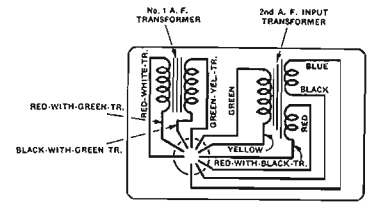
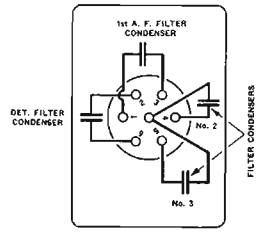
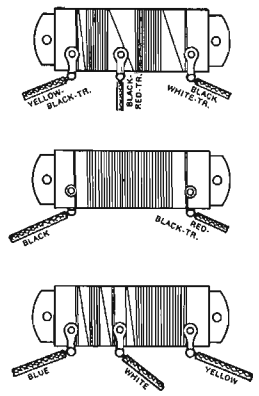
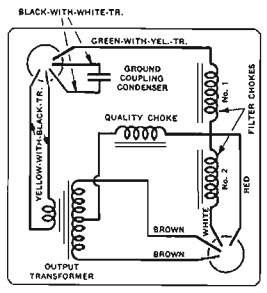
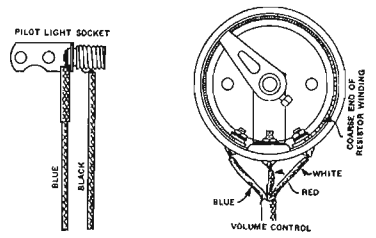
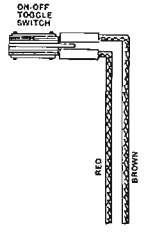
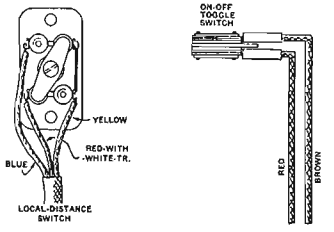
E—1st-R. F. screen by-pass.
O—2nd-R. F. filament by-pass.
V—1st-R. F. grid-circuit by-pass.
W—2nd-R. F. grid-circuit by-pass.

Condensers in R. F. By-Pass No. 2

F—2nd-3rd-R. F. screen by-pass.
H—1st-2nd-R. F. plate-circuit by-pass.
X—3rd-R. F. grid-circuit by-pass.
Z—3rd-R. F. plate-circuit by-pass.

Condensers in Detector By-Pass

S—Detector filament by-pass.
U—Filter condenser No. 1.



92 FILTER CHOKES & OUTPUT TRANSFORMER ASSEMBLY

FILAMENT RESISTOR ASSEMBLY

FILTER CONDENSER ASSEMBLY

No. 1 & 2 A. F. T. ASSEMBLY

FIG. 142. CONNECTIONS OF UNITS IN EARLY-TYPE MODEL 61 AND 61-C.

TUBULAR FIXED CONDENSERS

(By Part Numbers)

| Part No. | Value | Type† | Volts | Code No. printed on label or code†† |
|----------|----------------------------|-------|-------|-------------------------------------|
| 24509 | .01 & .01 | IND. | 200 | 31190 |
| 26550 | .5 | NI | 200 | 219 |
| 26660 | .1 | NI | 200 | 213 |
| 26820 | .05 | NI | 200 | 208 |
| 27234 | .5 | IND. | 200 | 26550 |
| 27434 | .008, .03 | IND. | 450 | 416 |
| 27519 | .008, .02 | IND. | 450 | 417 |
| 27630 | .01 | IND. | 200 | 203 |
| 28040 | .005 | IND. | 200 | 201 |
| 28130 | .005 | IND. | 450 | 408 |
| 29030 | .02 | NI | 450 | 206 |
| 29130 | .03 | NI | 200 | 210 |
| 29990 | .005 | IND. | 450 | 418 |
| 29910 | .015 | NI | 450 | 404 |
| 30940* | .250 MMF | IND. | 450 | 31620 |
| 30250 | .025 | NI | 450 | 411 |
| 30670 | .250 MMF | IND. | 450 | 31620 |
| 31140 | .250 MMF Double | IND. | 450 | 31630 |
| 31150 | .3 | NI | 100 | 104 |
| 31160 | .05 | NI | 100 | 101 |
| 31190 | .01 & .01 | IND. | 200 | 220 |
| 31330 | .250 MMF Double | IND. | 450 | 31630 |
| 31510 | .5 | NI | 100 | 102 |
| 31520 | .2 | NI | 100 | 103 |
| 31530 | .1 | NI | 100 | 105 |
| 31540 | .001 | IND. | 450 | 31640 |
| 31890 | .05, .05, .5 | IND. | 100 | 31920 |
| 31910 | .1, .1, .2 | IND. | 100 | 31930 |
| 31920 | .05, .05, .5 | IND. | 100 | 31920 |
| 31930 | .1, .1, .2 | IND. | 100 | 31930 |
| 32350 | .05, .05, .2 | IND. | 200 | 32390 |
| 32360 | .05, .05, .05 | IND. | 200 | 32410 |
| 32370 | .0022 | IND. | 450 | 31660 |
| 32390 | .05, .05, .2 | IND. | 200 | 32390 |
| 32410 | .05, .05, .05 | IND. | 200 | 32410 |
| 32420 | .0022 | IND. | 450 | 31660 |
| 32750 | .2, .1 | IND. | 100 | 106 |
| 32760 | .2, .1 | IND. | 100 | 31750 |
| 32810 | .01 | NI | 450 | 409 |
| 33620 | .250 MMF | IND. | 450 | 401 |
| 33630 | .250 MMF Double | IND. | 450 | 403 |
| 33640 | .001 | IND. | 450 | 403 |
| 33660 | .0022 | IND. | 450 | 408 |
| 34620 | .05 & .250 MMF | IND. | 200 | 221 |
| 35420 | .08 | NI | 200 | 212 |
| 35760 | .003 | IND. | 450 | 410 |
| 35780 | .2, .1, .05, .05, .05, .3 | IND. | 100 | 31750 |
| 35790 | .2, .1, .05, .05, .05, .03 | IND. | 100 | 407 |
| 35930 | .25 | NI | 200 | 215 |
| 36400 | .02 | IND. | 200 | 205 |
| 36410 | .1, .1, .05 | IND. | 100 | 109 |
| 36450 | .05, .05, .005, .005 | IND. | 200 | 223 |
| 36490 | .05 | NI | 450 | 412 |
| 36650 | .0015 | IND. | 450 | 404 |
| 36660 | .0025 | IND. | 450 | 404 |
| 36670 | .007 | IND. | 200 | 202 |
| 36680 | .015 | IND. | 200 | 202 |
| 36690 | .04 | NI | 200 | 207 |
| 36710 | .055 | NI | 200 | 209 |
| 36720 | .065 | NI | 200 | 211 |
| 36730 | .07 | NI | 200 | 211 |
| 36740 | .2 | NI | 200 | 216 |
| 36750 | .27 | NI | 200 | 217 |
| 36760 | .3 | NI | 200 | 218 |
| 36770 | .4 | NI | 200 | 218 |
| 38160 | .03, .015, .008 | IND. | 450 | 415 |
| 38200 | .001, .004, .008 | IND. | 450 | 419 |
| 39650 | .004, .003 | IND. | 450 | 416 |

* Condensers designated as inductive (IND.) are constructed in such a way that the current must pass through one or more turns of the thin-film foil in order to reach the ends of the plates. Such condensers have a slight inductive react and are primarily used as low frequency bypass where the effect of this slight inductance is negligible.
† Condensers designated as non-inductive (NI) are constructed in such a way that the current reaches the entire area of the plates without having to pass through any turns of the plate. Non-inductive condensers are used as high-frequency bypass.


TUBULAR FIXED CONDENSERS

(By Code Numbers)

| Code No. printed on label or code†† | Part No. | Value | Type† | Volts |
|-------------------------------------|----------|----------------------------|-------|-------|
| 101 | 31160 | .05 | NI | 100 |
| 102 | 31530 | .1 | NI | 100 |
| 103 | 31520 | .2 | NI | 100 |
| 104 | 31150 | .3 | NI | 100 |
| 105 | 31510 | .5 | NI | 100 |
| 106 | 32750 | .2, .1 | IND. | 100 |
| 107 | 32410 | .05, .05, .05 | IND. | 100 |
| 108 | 35790 | .2, .1, .05, .05, .05, .03 | IND. | 100 |
| 109 | 36440 | .1, .1, .05 | IND. | 100 |
| 110 | 31920 | .05, .05, .5 | IND. | 100 |
| 111 | 31930 | .1, .1, .2 | IND. | 100 |
| 201 | 28040 | .005 | IND. | 200 |
| 202 | 36670 | .007 | IND. | 200 |
| 203 | 27630 | .01 | IND. | 200 |
| 204 | 30680 | .015 | IND. | 200 |
| 205 | 36620 | .05 | IND. | 200 |
| 206 | 29530 | .03 | NI | 200 |
| 207 | 36690 | .04 | NI | 200 |
| 208 | 26820 | .05 | NI | 200 |
| 209 | 36710 | .055 | NI | 200 |
| 210 | 36720 | .065 | NI | 200 |
| 211 | 36730 | .07 | NI | 200 |
| 212 | 35420 | .08 | NI | 200 |
| 213 | 26660 | .1 | NI | 200 |
| 214 | 36740 | .2 | NI | 200 |
| 215 | 35930 | .25 | NI | 200 |
| 216 | 36750 | .27 | NI | 200 |
| 217 | 36760 | .3 | NI | 200 |
| 218 | 36770 | .4 | NI | 200 |
| 219 | 26550 | .5 | NI | 200 |
| 220 | 31190 | .01, .01 | IND. | 200 |
| 221 | 34820 | .05, .250 MMF | IND. | 200 |
| 222 | 32390 | .05, .05, .2 | IND. | 200 |
| 223 | 36450 | .05, .05, .005, .005 | IND. | 200 |
| 224 | 27234 | .5 | NI | 200 |
| 401 | 33620 | .250 MMF | IND. | 450 |
| 402 | 28130 | .0005 | IND. | 450 |
| 403 | 33640 | .001 | IND. | 450 |
| 404 | 35650 | .0015 | IND. | 450 |
| 405 | 33660 | .0022 | IND. | 450 |
| 406 | 35650 | .0025 | IND. | 450 |
| 407 | 35760 | .003 | IND. | 450 |
| 408 | 29990 | .005 | IND. | 450 |
| 409 | 32810 | .01 | IND. | 450 |
| 410 | 29030 | .02 | NI | 450 |
| 411 | 30250 | .025 | NI | 450 |
| 412 | 36490 | .05 | NI | 450 |
| 413 | 33430 | .250 MMF Double | IND. | 450 |
| 414 | 29910 | .015 | IND. | 450 |
| 415 | 38160 | .03, .015, .008 | IND. | 450 |
| 416 | 38200 | .001, .004, .008 | IND. | 450 |
| 417 | 27434 | .004, .03 | IND. | 450 |
| 418 | 27619 | .008, .02 | IND. | 450 |
| 419 | 39650 | .004, .001 | IND. | 450 |

* In models where No. 30240 is used as a diode coupling condenser and mounted inside an F. transformer assembly, use No. 31670 (small size) for replacement. The No. 33620 condenser, which normally appears on No. 30240, is too large for mounting inside the F. transformer shield.

SMALL BUTTERFLY CONDENSERS
(500 Volts)
(Illustration is full size)



| Part No. | Color | Angle Between Lugs | Rated Capacity |
|----------|-------|--------------------|----------------|
| 25661 | Green | 180° | 8 MMF |
| 34460 | Blk* | 77° | 10 MMF |
| 34470 | Red | 123° | 14 MMF |
| 36220 | Blue | 123° | 7 MMF |
| 36240 | Blk* | 123° | 7 MMF |
| 38280 | Gray | 123° | 4 MMF |

1/3, 1/2, 1, and 2 WATT TUBULAR RESISTORS

(When replacing a tubular resistor, use a resistor of the same value and size)



These four illustrations are full size.

| RESISTANCE IN OHMS | IDENTIFYING COLOR | 1/3 WATT SIZE | 1/2 WATT SIZE | 1 WATT SIZE | 2 WATT SIZE |
|--------------------|------------------------|---------------|---------------|-------------|-------------|
| 155 | Blue Gray and Yellow | 41330 | --- | --- | --- |
| 200 | Blue, Yellow and Red | --- | 37690 | --- | --- |
| 300 | Maroon and Blue | --- | 37530 | --- | 31490 |
| 425 | Blue, Yellow and Green | --- | 37540 | --- | --- |
| 500 | Blue, Red and Green | --- | --- | 32010 | --- |
| 1,100 | Black, Red and Blue | 39790 | --- | --- | --- |
| 1,500 | Black and Green | 31490 | --- | --- | --- |
| 2,000 | Blue | 37710 | --- | --- | --- |
| 2,500 | Gray, Red and Green | 33250 | --- | --- | --- |
| 3,300 | Green and Red | 39130 | --- | --- | --- |
| 4,000 | Green and Blue | 30380 | 26410 | 19346 | --- |
| 5,000 | Blue and Yellow | --- | --- | 18049 | --- |
| 6,000 | Purple | 36430 | 28050 | --- | --- |
| 7,500 | Yellow | --- | --- | 20151 | 28770 |
| 10,000 | Maroon | --- | --- | 15545 | --- |
| 12,500 | Purple and Yellow | 30320 | 20950 | 15941 | 27210 |
| 15,000 | Gray and Yellow | --- | 20950 | 22211 | 27220 |
| 20,000 | Gray and Green | --- | --- | 21784 | --- |
| 20,000 | Black and Red | 30390 | 23120 | 15891 | 28030 |
| 30,000 | Gray | 31840 | 20970 | 15285 | 29710 |
| 40,000 | White | --- | 26160 | 16724 | 28750 |
| 50,000 | Black, Yellow and Red | 30390 | --- | 22497 | 34340 |
| 65,000 | Black | 31580 | 21040 | 15592 | --- |
| 100,000 | Red and Blue | 30340 | 20980 | 16282 | 28760 |
| 150,000 | Black and Yellow | --- | --- | 28864 | --- |
| 250,000 | Red and Yellow | 31970 | 20920 | 19381 | --- |
| 500,000 | Black and Purple | 30350 | 20930 | 19649 | --- |
| 800,000 | Red and Gray | --- | 23130 | 20223 | --- |
| 900,000 | Green and Yellow | --- | --- | 23170 | --- |
| 1,000,000 | Blue and Gray | 30360 | 21050 | --- | --- |
| 2,000,000 | Green | 30370 | 20940 | 15892 | --- |

PARTS NUMBERS OF KNOBS

| Model No. | Vol. Control knob | Station Selector dial or tuning knob | Tone control knob | Frequency switch knob | Silencing switch knob | Model No. | Vol. Control knob | Station Selector dial or tuning knob | Tone control knob | Frequency switch knob | Silencing switch knob |
|-----------|-------------------|--------------------------------------|-------------------|-----------------------|-----------------------|-----------|-------------------|--------------------------------------|-------------------|-----------------------|-----------------------|
| 112 | 27728† | 27728† | 27494‡ | 27358§ | 26571‡ | 325 | 27496‡ | { 24278* 1 27498† | 27495§ | 26569§ | --- |
| 145 | 27496‡ | { 24278* † 27498† | 27495§ | 26569§ | --- | 447 | 27728† | 27728† | 27494‡ | 27358§ | 26571‡ |
| 206 | 27496‡ | { 24278* † 27498† | 27495§ | 26569§ | --- | 511 | 26569§ | 26569§ | 27495‡ | 27358§ | 26571‡ |
| 318 | 27728† | 27728† | 27494‡ | 27358§ | 26571‡ | 559 | 27728† | 27728† | 27494‡ | 27358§ | 26571‡ |
| | | | | | | 825 | 27493‡ | 27493‡ | 26571‡ | 26571‡ | --- |
| | | | | | | 944 | 27493‡ | 27493‡ | --- | --- | --- |

CABINET PARTS FOR CONSOLE SETS

| | | |
|-------|---------------|-----|
| 23925 | Wing nut | --- |
| 21142 | Washer | --- |
| 27704 | Clamp (small) | --- |
| 25742 | Clamp (large) | --- |
| 25746 | Clamp bolt | --- |

COMPACT CABINET AND SCREEN NUMBERS

| Model Number | Cabinet With Screen | Cabinet With Screen | Screen |
|--------------|---------------------|---------------------|--------|
| 135 | 2 | 28831 | 27908 |
| 145 | 2 | 28839 | 27905 |
| 206 | 2 | 28834 | 27908 |
| 206-D | 2 | 28834 | 27908 |
| 447 | 2 | 28026 | 27904 |
| 465-Q | --- | --- | 27907 |
| 705-Q | --- | --- | 28829 |
| 826 | --- | --- | 28796 |
| 944 | --- | 28773† | 28922 |

* No. 24278 single knob (front). † No. 27498 single knob (back). ‡ No. 28114 knob spring. § No. 28115 knob spring. ¶ No. 015 Ohm.