PHOTOFACT* Folder
*TRADE MARK

# ADMIRAL MODELS C322C2, 3, 16, 17, 26, 27, CA322C16, 17, 26, 27, CS322C2, 3, 16, 17, 26, 27, LC322C36, 37, 39, LCS322C36, 37, 39 (Ch. 29AZ1, 29SZ1, B, 29Z1, B)

## DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove 4 push-on type knobs from the front .

2. Remove 10 wood screws and 2 metal screws from the rear cover. Remove the rear cover.

3. Remove 2 metal screws holding the side control panel.

4. Remove speaker leads.

5. Remove 6 chassis bolts from the bottom.

6. Remove the chassis.

PICTURE TUBE REMOVAL

1. Remove the HV lead from the HV rectifier socket.

2. Remove the picture tube socket, blue lateral magnet, purity magnet and the convergence yoke assembly.

3. Remove 2 wing nuts and the yoke.

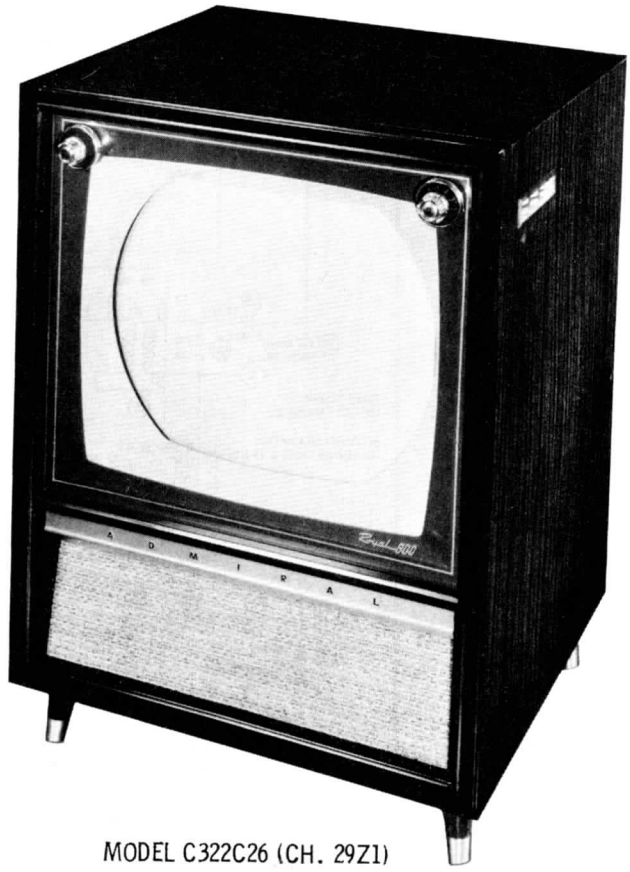
4. Remove 4 hex nuts holding the yoke retainer bracket.

5. Loosen, but do not remove 2 nuts on the sides of the yoke bracket to allow the bracket to tilt upward.

6. Remove the bolt from the tube mounting strap.

7. Remove the picture tube and insulating boots.

8. In replacing boots make certain to replace in correct order.




MODEL C322C26 (CH. 29Z1)

ADMIRAL MODELS C322C2, 3, 16, 17, 26, 27, CA322C16, 17, 26, 27, CS322C2, 3, 16, 17, 26, 27, LC322C36, 37, 39, LCS322C36, 37, 39 (Ch. 29AZ1, 29SZ1, B, 29Z1, B)

| TRADE NAME | Admiral | MODELS | CHASSIS |
|---|---|---|---|
| Chassis Runs 1 thru 17 | | C322C2, C322C3, C322C16, C322C17, C322C26, C322C27 | 29Z1 |
| | | CA322C16, CA322C17, CA322C26, CA322C27 | 29AZ1 |
| | | CS322C2, CS322C3, CS322C16, CS322C17, CS322C26, CS322C27 | 29SZ1 |
| | | LC322C36, LC322C36, LC322C37, LC322C39 | 29Z1B |
| | | LCS322C36, LCS32237, LCS32239 | 29SZ1B |

| | |
|---|---|
| MANUFACTURER | Admiral Corp., 3800 W. Cortland St., Chicago 47, Illinois |
| TYPE SET | Color Television Receiver |
| TUBES | Twenty-nine |
| POWER SUPPLY | 110-120 Volts AC, 60 Cycle RATING 370 Watts, 3.5 Amp. @ 117Volts AC |
| TUNING RANGE | Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier) |

## INDEX

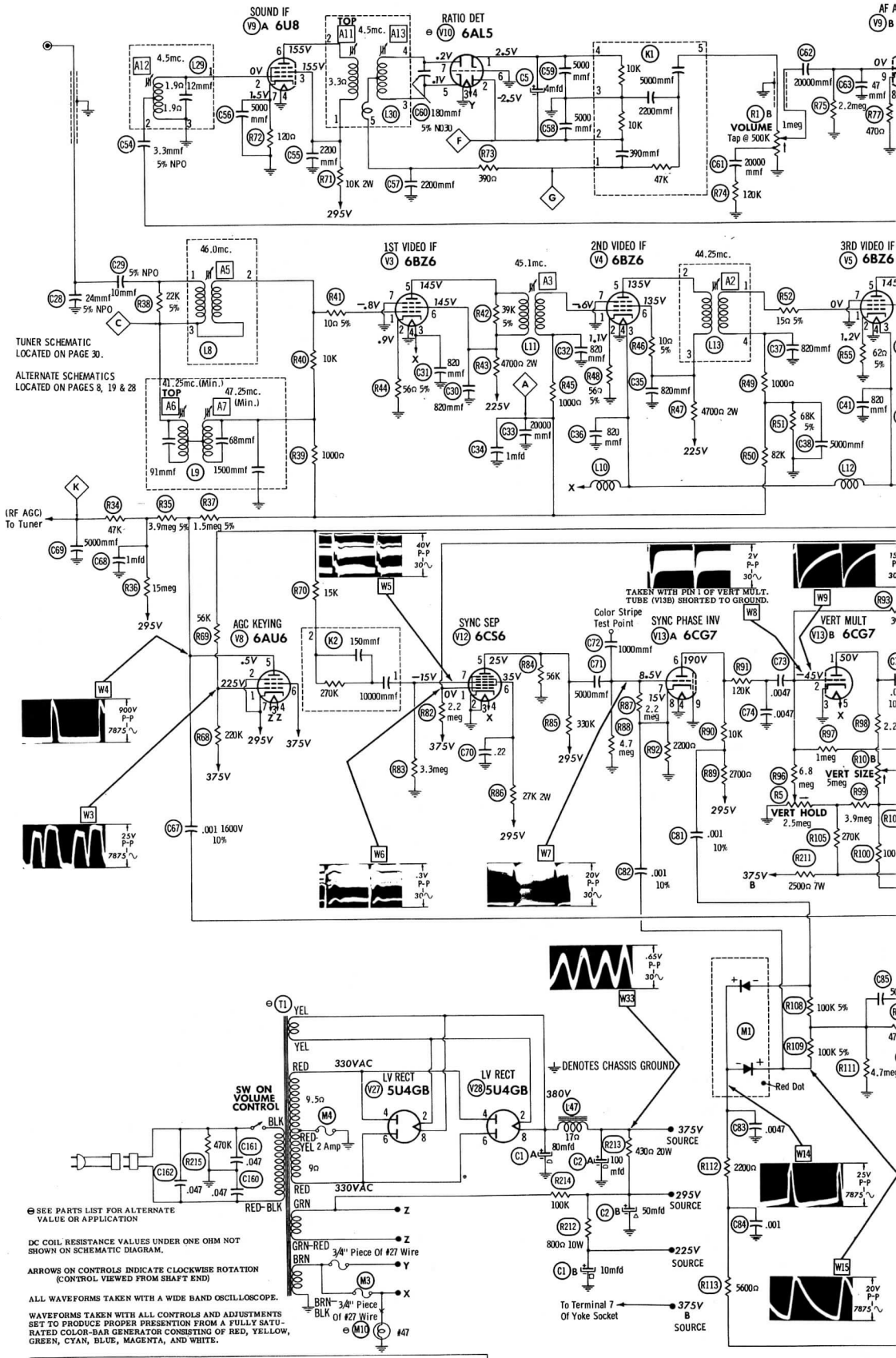


HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

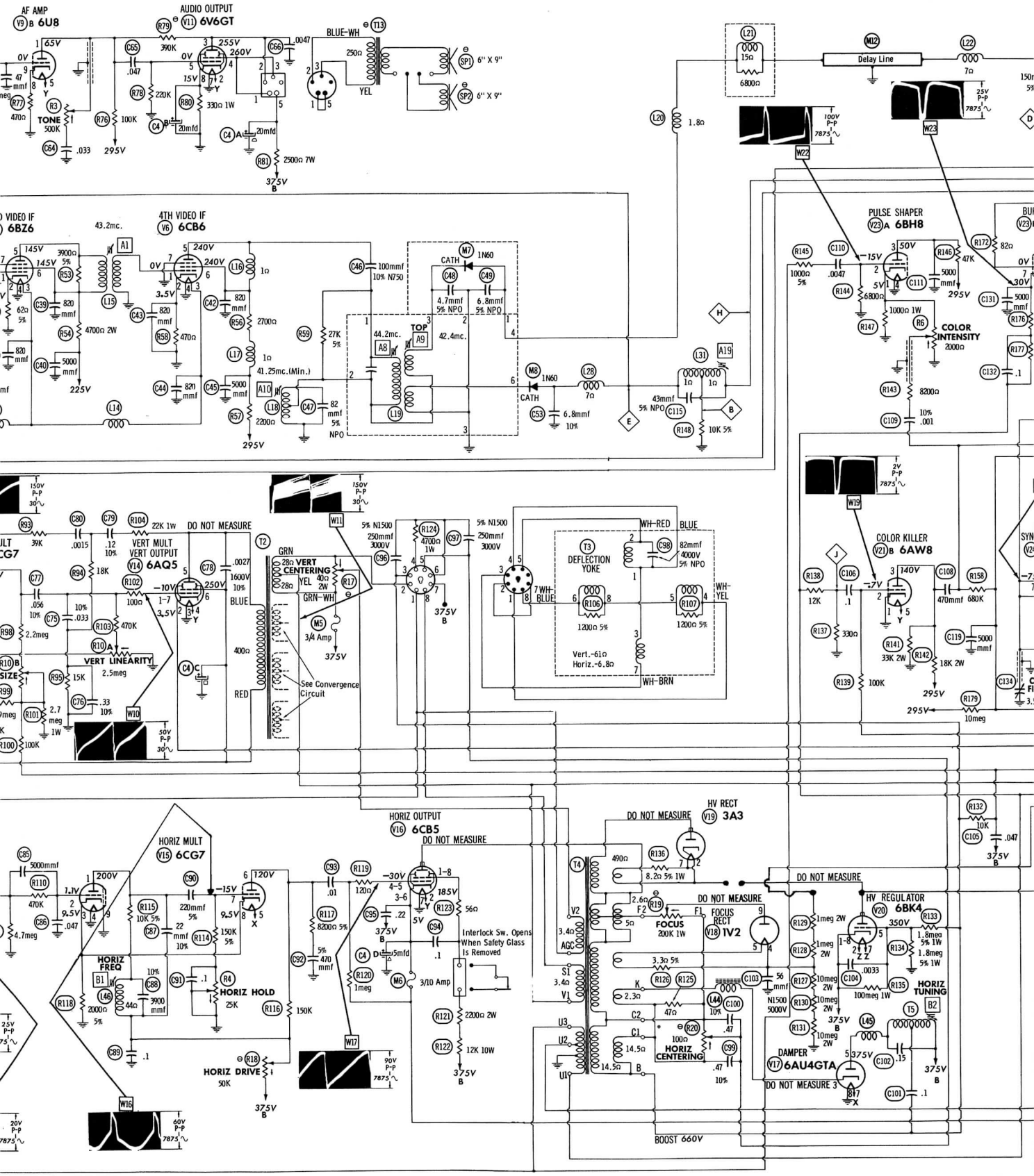


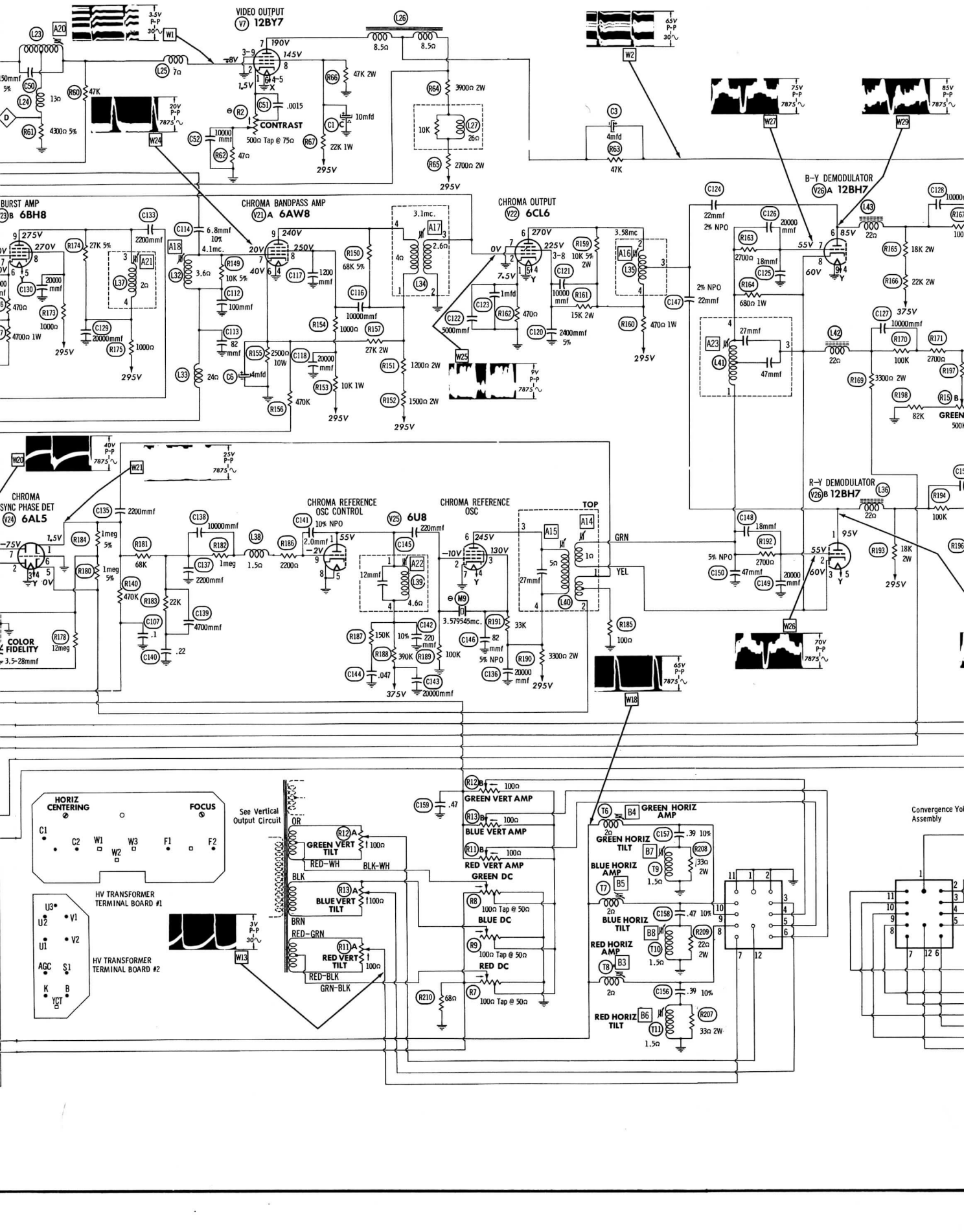


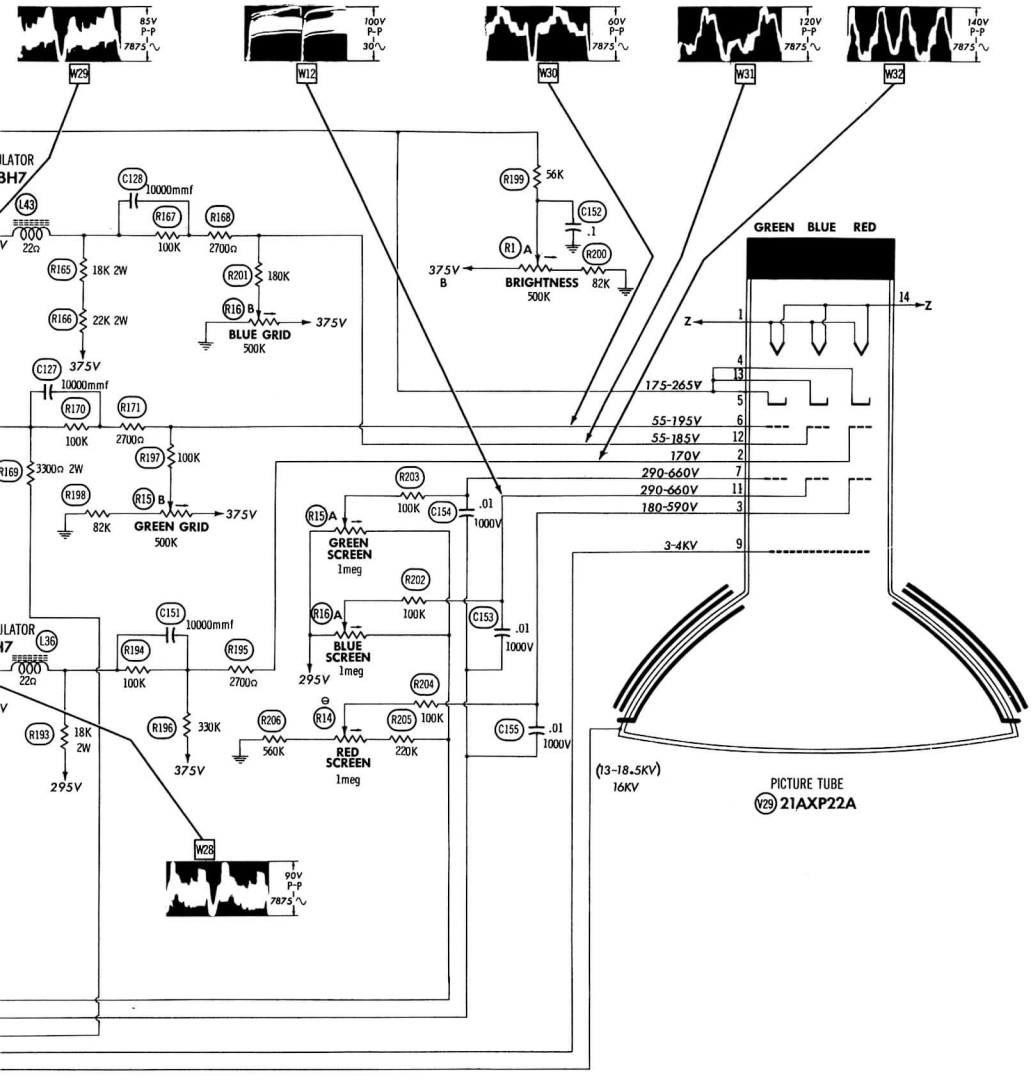
FOLDER 1

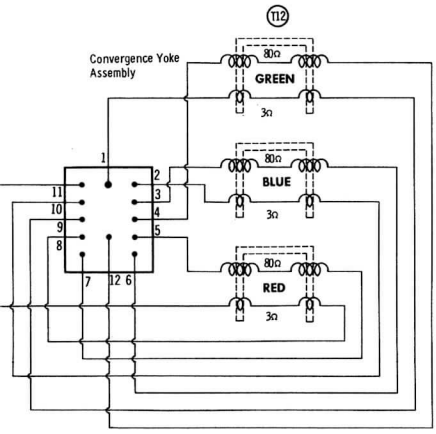



A PHOTOFACT STANDARD NOTATION SCHEMATIC
Howard W. Sams & Co., Inc. 1958


AF AMP
V9B 6U8
AUDIO OUTPUT
V11 6V6GT
BLUE-WH
YEL
6" X 9"
6" X 9"
TONE 500K
Delay Line
4TH VIDEO IF
V6 6CB6
43.2mc.
PULSE SHAPER
V23A 6BH8
COLOR INTENSITY 2000Ω
TOP
42.4mc.
44.2mc.
41.25mc.(Min.)
COLOR KILLER
V21B 6AW8
DEFLECTION YOKE
Vert.-61Ω
Horiz.-6.8Ω
WH-RED
BLUE
WH-YEL
WH-BRN
GRN
YEL
GRN-WH
RED
28Ω VERT CENTERING
See Convergence Circuit
VERT MULT
VERT OUTPUT
V14 6AQ5
VERT LINEARITY
DO NOT MEASURE
HORIZ MULT
V15 6CG7
HORIZ FREQ
HORIZ HOLD 25K
HORIZ DRIVE 50K
HORIZ OUTPUT
V16 6CB5
Interlock Sw. Opens When Safety Glass Is Removed
HV RECT
V19 3A3
FOCUS RECT
V18 1V2
FOCUS 200K 1W
HV REGULATOR
6BK4
HORIZ CENTERING
HORIZ TUNING
DAMPER
V17 6AU4GTA
BOOST 660V

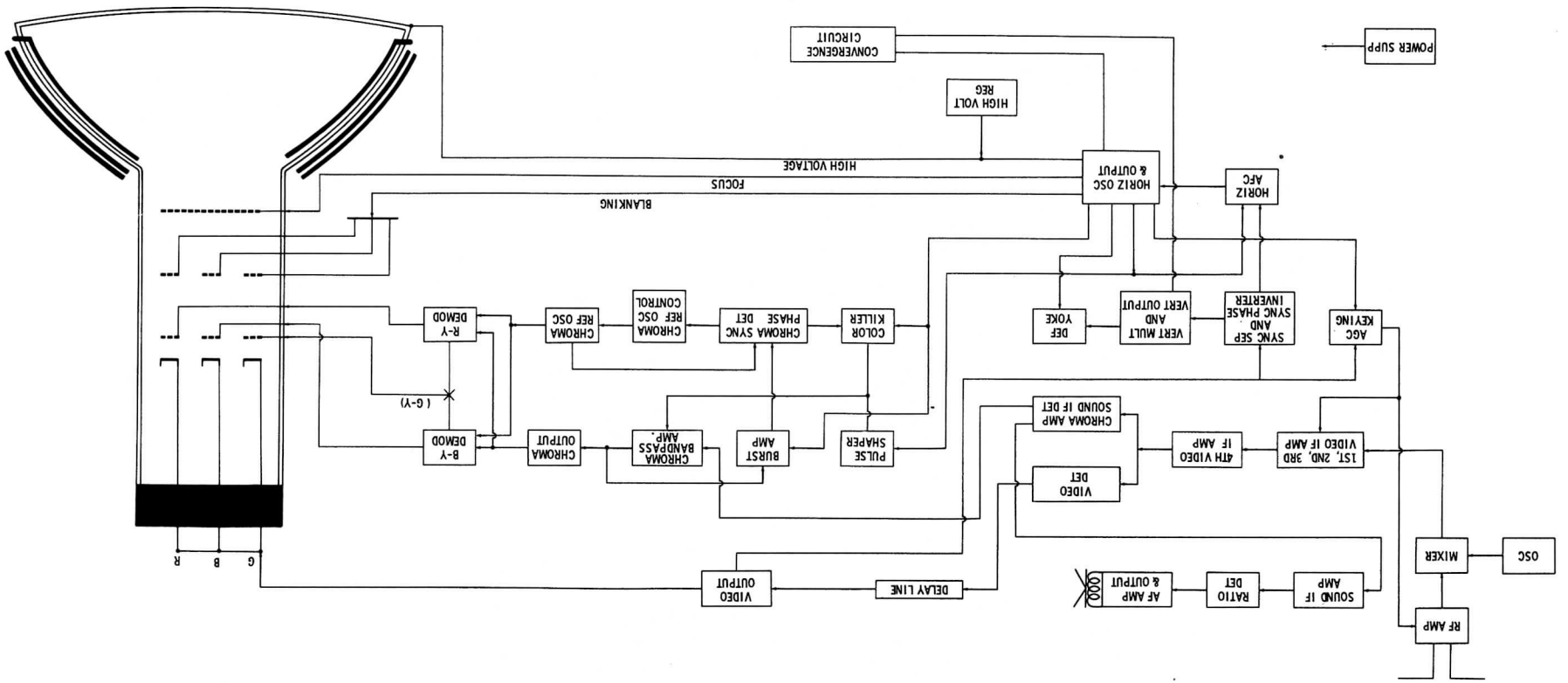

VIDEO OUTPUT
V7 12BY7
CONTRAST
500Ω Tap @ 75Ω
CHROMA BANDPASS AMP
V21A 6AW8
CHROMA OUTPUT
V22 6CL6
BURST AMP
V23B 6BH8
B-Y DEMODULATOR
V26A 12BH7
R-Y DEMODULATOR
V26B 12BH7
CHROMA SYNC PHASE DET
V24 6AL5
CHROMA REFERENCE OSC CONTROL
CHROMA REFERENCE OSC
V25 6U8
COLOR FIDELITY
HORIZ CENTERING
FOCUS
HV TRANSFORMER TERMINAL BOARD #1
HV TRANSFORMER TERMINAL BOARD #2
See Vertical Output Circuit
GREEN VERT TILT
BLUE VERT TILT
RED VERT TILT
GREEN VERT AMP
BLUE VERT AMP
RED VERT AMP
GREEN DC
BLUE DC
RED DC
GREEN HORIZ AMP
GREEN HORIZ TILT
BLUE HORIZ AMP
BLUE HORIZ TILT
RED HORIZ AMP
RED HORIZ TILT
Convergence Yoke Assembly

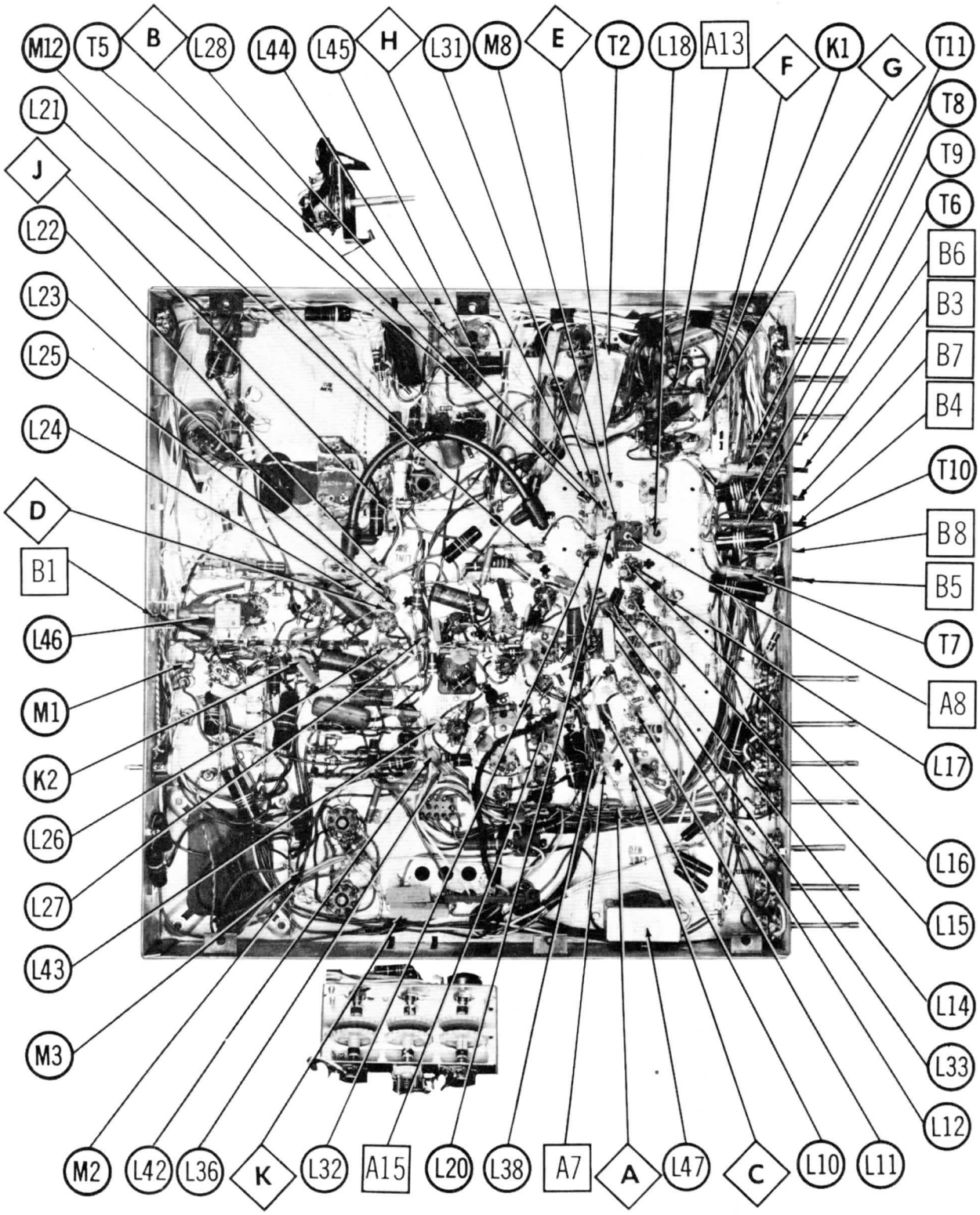


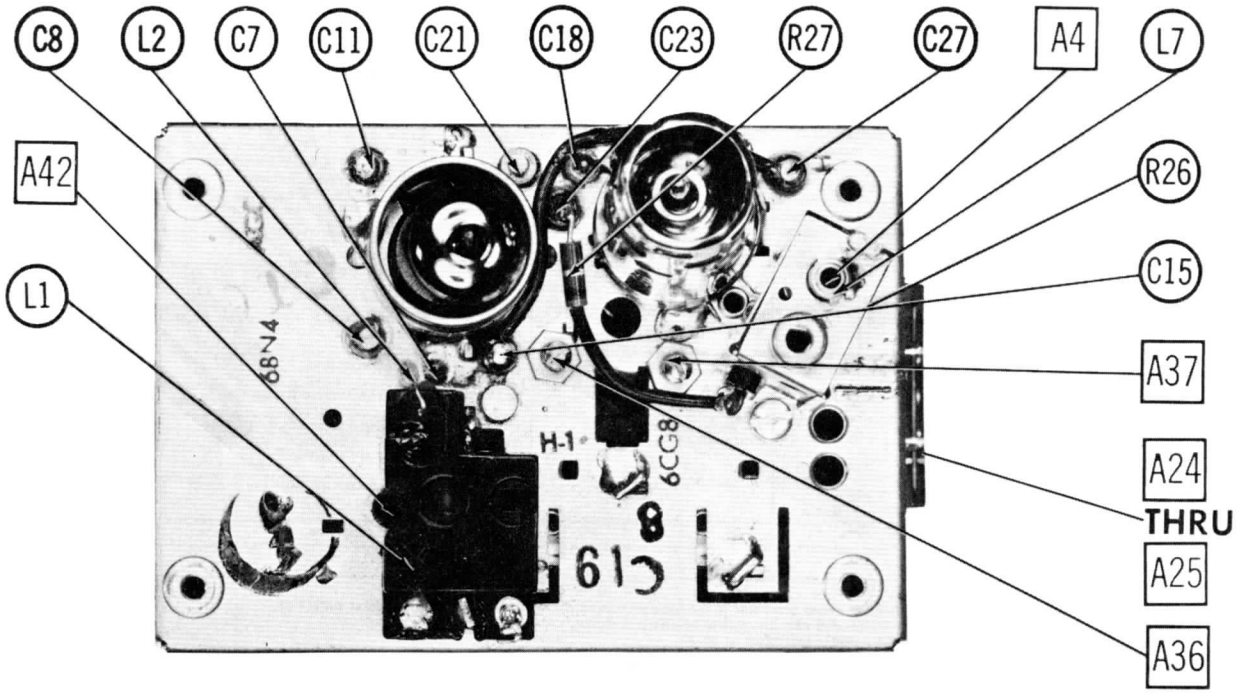

**ADMIRAL MODELS C322C2, 3, 16, 17, 26, 27, CA322C16, 17, 26, 27, CS322C2, 3, 16, 17, 26, 27, LC322C36, 37, 39, LCS322C36, 37, 39 (Ch. 29AZ1, 29SZ1, B, 29Z1, B)**

## BLOCK DIAGRAM

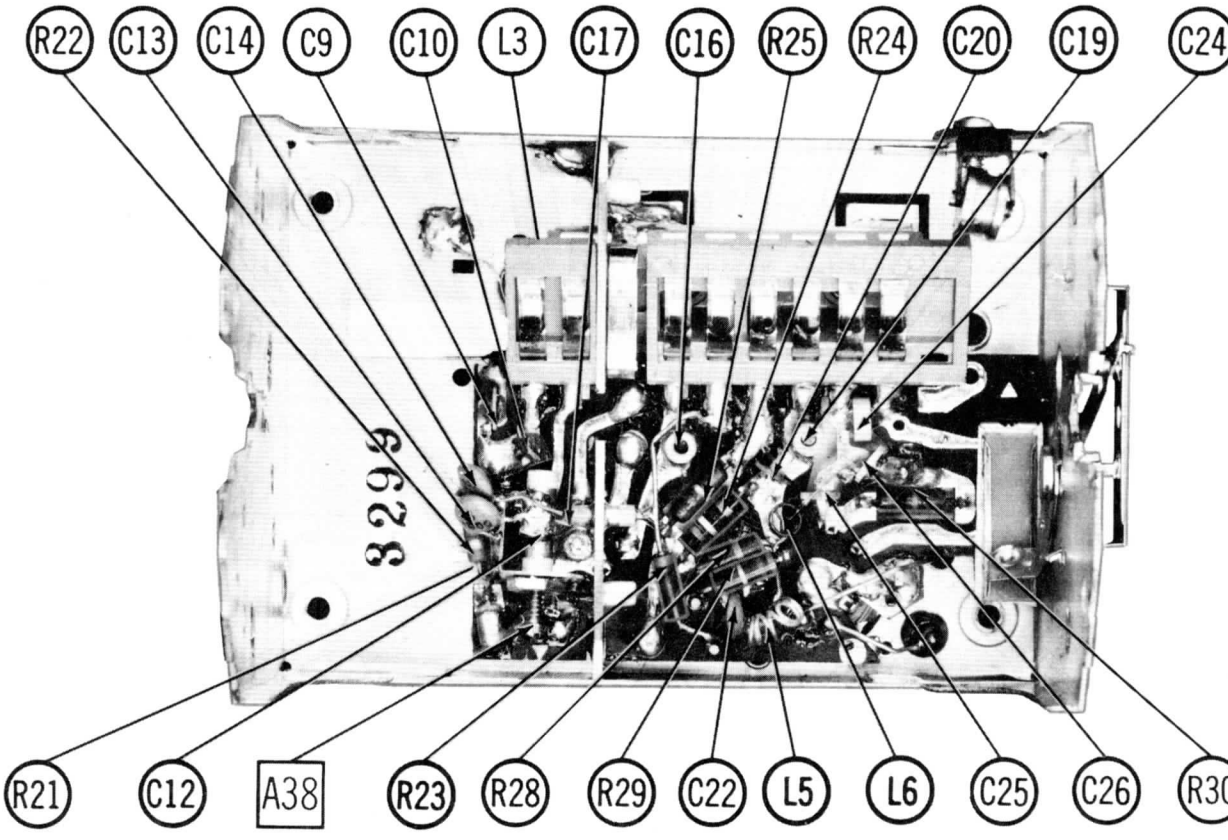





**CHASSIS BOTTOM VIEW-TRANS., INDUCTOR AND ALIGNMENT IDENTIFICATION**




RF TUNER-TOP VIEW




RF TUNER-BOTTOM VIEW

PRE-ALIGNMENT INSTRUCTIONS

Allow a 20 minute warm-up period for the receiver and test equipment.

VIDEO IF ALIGNMENT

Connect the negative lead of 4 volt bias supply to point (A). Positive to chassis.
Use only enough generator output to provide a usable indication on VTVM.

| | DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | CONNECT VTVM | ADJUST | REMARKS |
|---|---|---|---|---|---|---|---|
| 1. | Direct | High side to ungrounded tube shield floating over mixer-osc. tube (V2). Low side to chassis. | 43.2MC | Any non-interfering channel | DC probe thru network (Fig. 1) to point (B). Common to chassis. | A1 | Adjust for maximum deflection. |
| 2. | " | " | 44.25MC | " | " | A2 | " |
| 3. | " | " | 45.1MC | " | " | A3 | " |
| 4. | " | " | 42.4MC | " | " | A4 | Connect a .005MFD capacitor from point (C) to chassis. Adjust A4 for maximum deflection. |
| 5. | " | " | 46.0MC | " | " | A5 | Adjust for maximum deflection. Remove the .005MFD from point (C) and chassis. |
| 6. | " | " | 41.25MC | " | " | A6 | Adjust for MINIMUM deflection. |
| 7. | " | " | 47.25MC | " | " | A7 | Adjust for MINIMUM deflection. Repeat step 6. |
| 8. | " | " | 44.2MC | " | DC probe to point (D). Common to chassis. | A8 | Detune A10 by inserting a piece of iron into the core. Detune A9 by misadjusting its own slug. Adjust A8 for maximum deflection. |
| 9. | " | " | 42.4MC | " | " | A9 | Adjust for maximum deflection. Remove piece of iron from A10. |
| 10. | " | " | 41.25MC | " | " | A10 | Adjust for MINIMUM deflection. |

OVERALL VIDEO IF RESPONSE CHECK

Connect bias as under "Video IF Alignment".
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.
Use only enough generator output to provide a usable indication on scope.

| | DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 11. | Direct | High side to ungrounded tube shield floating over mixer-osc. tube (V2). Low side to chassis | 43.5MC (10MC Swp) | 42.5MC<br>44.75MC<br>45.75MC | Any non-interfering channel | Vert. Amp. thru network (Fig. 1) to point (D). Low side to chassis. | | Check for response similar to Fig. 2 with markers as shown. If necessary, retouch A1 SLIGHTLY for equal peaks. Retouch A3 to place 45.75MC at 50%. |
| 12. | " | " | " | 42.17MC<br>45.75MC | " | Vert. Amp. thru network (Fig. 1) to point (B). | | Check for response similar to Fig. 3. |

SOUND IF ALIGNMENT

A TV station signal is preferred to a signal generator. If a station is used, connect the antenna, set the channel selector to the strongest signal available and tune in a picture. If a signal generator is used, disconnect the antenna and short the antenna terminals together.

| | DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | CONNECT VTVM | ADJUST | REMARKS |
|---|---|---|---|---|---|---|---|
| 13. | Direct | High side to point (E). Low side to chassis. | 4.5MC (Unmod) | Any non-interfering channel | DC probe to point (F). Common to chassis. | A11, A12 | Adjust for maximum deflection. |
| 14. | " | " | " | " | DC probe to point (G). Common to chassis. | A13 | Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. |

SUB-CARRIER ALIGNMENT

Connect a .01MFD capacitor between pin 7 (grid) of the 6AW8 (V21) and chassis.

| | DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | CONNECT VTVM | ADJUST | REMARKS |
|---|---|---|---|---|---|---|---|
| 15. | None | Not used | Not used | Any | DC probe thru 100K to pin 7 (plate) of 6AL5 (V24). Common to chassis. | A14, A15 | Adjust for maximum deflection. Repeat until maximum is obtained. Remove .01MFD capacitor from pin 7 of V21. |

CHROMA ALIGNMENT

Turn the color intensity control (R6) clockwise about 3/4 of its range.
Connect a clip lead from point (J) to chassis.
Connect a clip lead from pin 1 (grid) of the 6CB6 (V6) to chassis.
Detune A19 by turning out about 3 turns.
Connect a .01MFD capacitor from terminal 1 to terminal 3 of L41.

| | DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | CONNECT VTVM | ADJUST | REMARKS |
|---|---|---|---|---|---|---|---|
| 16. | 3300Ω Carbon Resistors | High side to point (H). Low side to chassis. | 3.58MC (Unmod) | Any non-interfering channel | DC probe thru detector (Fig. 4) to pin 1 (plate) of 12BH7 (V26). Common to chassis. | A16 | Adjust for maximum deflection. |
| 17. | " | " | 3.1MC | " | " | A17 | " |
| 18. | " | " | 4.1MC | " | " | A18 | Adjust for maximum deflection. Remove ground from pin 1 of V6. Disconnect signal generator. |
| 19. | None | Not used | Not used | Any black and white station. | " | A19 | Adjust fine tuning for maximum deflection. Adjust A19 for MINIMUM deflection. Remove clip lead between point (J) and chassis. Remove .01MFD capacitor from L41. Remove VTVM and detector. |

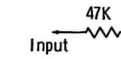



FIG. 1

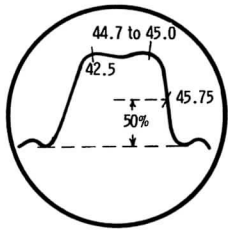
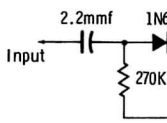



FIG. 2




F

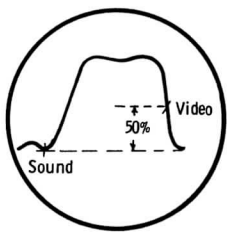



FIG. 5

# ALIGNMENT INSTRUCTIONS

| ADJUST | REMARKS |
|---|---|
| A1 | Adjust for maximum deflection. |
| A2 | " |
| A3 | " |
| A4 | Connect a .005MFD capacitor from point Ⓒ to chassis. Adjust A4 for maximum deflection. |
| A5 | Adjust for maximum deflection. Remove the .005MFD from point Ⓒ and chassis. |
| A6 | Adjust for MINIMUM deflection. |
| A7 | Adjust for MINIMUM deflection. Repeat step 6. |
| A8 | Detune A10 by inserting a piece of iron into the core. Detune A9 by misadjusting its own slug. Adjust A8 for maximum deflection. |
| A9 | Adjust for maximum deflection. Remove piece of iron from A10. |
| A10 | Adjust for MINIMUM deflection. |

put of the oscilloscope for horizontal deflection.
nce, usually 50 ohms.

| NECT OPE | ADJUST | REMARKS |
|---|---|---|
| thru net- 1) to point w side to | | Check for response similar to Fig. 2 with markers as shown. If necessary, retouch A1 SLIGHTLY for equal peaks. Retouch A3 to place 45.75MC at 50%. |
| thru g. 1) to | | Check for response similar to Fig. 3. |

the antenna, set the channel selector to the
nect the antenna and short the antenna terminals

| ADJUST | REMARKS |
|---|---|
| A11, A12 | Adjust for maximum deflection. |
| A13 | Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. |

| ADJUST | REMARKS |
|---|---|
| A14, A15 | Adjust for maximum deflection. Repeat until maximum is obtained. Remove .01MFD capacitor from pin 7 of V21. |

| ADJUST | REMARKS |
|---|---|
| A16 | Adjust for maximum deflection. |
| A17 | " |
| A18 | Adjust for maximum deflection. Remove ground from pin 1 of V6. Disconnect signal generator . |
| A19 | Adjust fine tuning for maximum deflection. Adjust A19 for MINIMUM deflection. Remove clip lead between point Ⓙ and chassis. Remove .01MFD capacitor from L41. Remove VTVM and detector. |

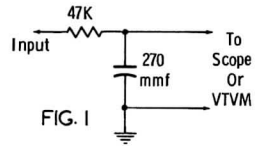


FIG. 1

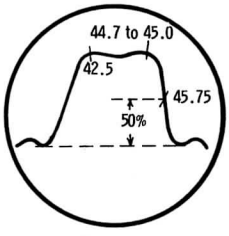


FIG. 2

FIG. 3

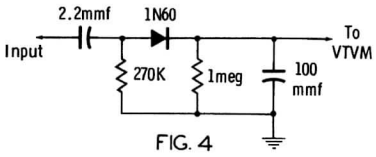


FIG. 4

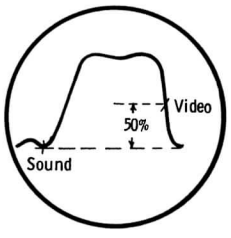


FIG. 5

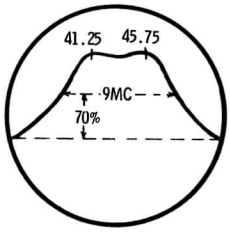


FIG. 6

COLOR SYNC - COLOR PHASE ALIGNMENT

1. Connect a clip lead from point Ⓙ to chassis. Connect a colo
MINIMUM 920KC beat in the picture.
2. Connect the vertical amplifier of the scope to pin 4, 5 or 13 (c
sub-carrier on the color bar scope pattern. The scope gain shou
3. Connect the DC probe of the VTVM to pin 7 (plate) of the 6AL5
volt scale. Adjust A21 for maximum negative voltage. This shou
4. Connect the DC probe of the VTVM to pin 1 (cathode) of the 6A
and the voltage reading on the VTVM is 5 volts negative.
5. Set the color intensity and the contrast controls for low level
6. Set the color bar generator for B-Y output. Connect the verti
side to chassis. Touch-up A16 so that the B-Y output at the R-Y
7. Set the color bar generator for R-Y output. Connect the verti
side to chassis. Adjust A23 so that the R-Y output at the B-Y de
8. Connect the DC probe of the VTVM to pin 3 (plate) of the 6BH8
turn the color intensity control to maximum. The meter should r

VHF OSCILLATOR ALIGNMENT FOR TUNERS #94D131-1, 94D131

Connect the negative lead of a 4 volt bias supply to point Ⓐ .
Connect the negative lead of a 3 volt bias supply to point Ⓚ .
Connect the synchronized sweep voltage from the sweep generator
The sweep generator output lead should be terminated with its ch
Set the fine tuning to the center of its range.
Use only enough sweep generator output to provide a usable patter
Use 10MC sweep unless otherwise noted.

| | DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CH |
|---|---|---|---|---|---|
| 20. | Two 120Ω Carbon Resistors | Across antenna terminals with 120Ω in each lead. | 213MC | 211.25MC<br>215.75MC | 1 |
| | | | 207MC | 205.25MC<br>209.75MC | 1 |
| | | | 201MC | 199.25MC<br>203.75MC | 1 |
| | | | 195MC | 193.25MC<br>197.75MC | 1 |
| | | | 189MC | 187.25MC<br>191.75MC | 9 |
| | | | 183MC | 181.25MC<br>185.75MC | 8 |
| | | | 177MC | 175.25MC<br>179.75MC | 7 |
| | | | 85MC | 83.25MC<br>87.75MC | 6 |
| | | | 79MC | 77.25MC<br>81.75MC | 5 |
| | | | 69MC | 67.25MC<br>71.75MC | 4 |
| | | | 63MC | 61.25MC<br>65.75MC | 3 |
| | | | 57MC | 55.25MC<br>59.75MC | 2 |

VHF OSCILLATOR ALIGNMENT FOR TUNER #94E144-8

Always make adjustments on the lowest channel first, then work u
Turn the set on and allow the receiver to warm-up for 15 minutes.
and set the fine tuning to the center of its range by rotating appro
Using a 1/8" blade non-metallic alignment tool, carefully adjust o
the slug in the direction of best picture until the sound bars just d
them in order of their channel number. NOTE: When two slugs a

VHF RF AND MIXER ALIGNMENT FOR TUNERS #94D131-1 AND 9

Connect bias as under "VHF Oscillator Alignment".
Connect the synchronized sweep voltage from the sweep generator
The sweep generator output lead should be terminated with its ch
Set the fine tuning to the center of its range.
Use only enough sweep generator output to provide a usable patter
Use 10MC sweep unless otherwise noted.
To perform step 22, increase the bias at point Ⓚ to a voltage ju
input signal to maintain 2 volts peak to peak on the scope at point

| | DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHA |
|---|---|---|---|---|---|
| 21. | Two 120Ω Carbon Resistors | Across antenna terminals with 120Ω in each lead. | 195MC | 193.25MC<br>197.75MC | 10 |
| 22. | " | " | " | " | " |
| 23. | " | " | 213MC | 211.25MC<br>215.75MC | 13 |
| | | | 207MC | 205.25MC<br>209.75MC | 12 |
| | | | 201MC | 199.25MC<br>203.75MC | 11 |
| | | | 189MC | 187.25MC<br>191.75MC | 9 |
| | | | 183MC | 181.25MC<br>185.75MC | 8 |
| | | | 177MC | 175.25MC<br>179.75MC | 7 |
| | | | 85MC | 83.25MC<br>87.75MC | 6 |
| | | | 79MC | 77.25MC<br>81.75MC | 5 |
| | | | 69MC | 67.25MC<br>71.75MC | 4 |
| | | | 63MC | 61.25MC<br>65.75MC | 3 |
| | | | 57MC | 55.25MC<br>59.75MC | 2 |

# INSTRUCTIONS

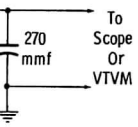




FIG. 3

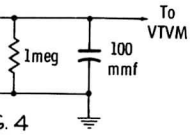



FIG. 4

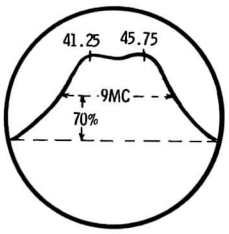



FIG. 6

COLOR SYNC - COLOR PHASE ALIGNMENT

1. Connect a clip lead from point Ⓙ to chassis. Connect a color bar generator to the antenna terminals and adjust the fine tuning for MINIMUM 920KC beat in the picture.
2. Connect the vertical amplifier of the scope to pin 4, 5 or 13 (cathodes) of the picture tube. Adjust A20 (3.58MC trap) for MINIMUM sub-carrier on the color bar scope pattern. The scope gain should be set high for this adjustment.
3. Connect the DC probe of the VTVM to pin 7 (plate) of the 6AL5 (V24). Common to chassis. Set the VTVM to the negative 100 or 150 volt scale. Adjust A21 for maximum negative voltage. This should be between -80 and -100 volts.
4. Connect the DC probe of the VTVM to pin 1 (cathode) of the 6AL5 (V24). Common to chassis. Adjust A22 so that the color is in sync and the voltage reading on the VTVM is 5 volts negative.
5. Set the color intensity and the contrast controls for low level color bars. Set the color fidelity to the center of its range.
6. Set the color bar generator for B-Y output. Connect the vertical amplifier of the scope to pin 2 (red grid) of the picture tube. Low side to chassis. Touch-up A16 so that the B-Y output at the R-Y demodulator is zero as observed on the scope.
7. Set the color bar generator for R-Y output. Connect the vertical amplifier of the scope to pin 12 (blue grid) of the picture tube. Low side to chassis. Adjust A23 so that the R-Y output at the B-Y demodulator output is zero as observed on the scope.
8. Connect the DC probe of the VTVM to pin 3 (plate) of the 6BH8 (V23). Common to chassis. Tune in a black and white station and turn the color intensity control to maximum. The meter should read at least -9 volts.

VHF OSCILLATOR ALIGNMENT FOR TUNERS #94D131-1, 94D131-2 AND 94E107-1

Connect the negative lead of a 4 volt bias supply to point Ⓐ. Positive to chassis.
Connect the negative lead of a 3 volt bias supply to point Ⓚ. Positive to chassis.
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.
Set the fine tuning to the center of its range.
Use only enough sweep generator output to provide a usable pattern on scope.
Use 10MC sweep unless otherwise noted.

| | DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 20. | Two 120Ω Carbon Resistors | Across antenna terminals with 120Ω in each lead. | 213MC | 211.25MC 215.75MC | 13 | Vert. Amp. thru decoupling network (Fig. 1) to point Ⓓ. Low side to chassis. | A24 | Adjust to place sound marker in trap notch as in Fig. 5. Video marker should fall at 50%. |
| | | | 207MC | 205.25MC 209.75MC | 12 | | A25 | |
| | | | 201MC | 199.25MC 203.75MC | 11 | | A26 | |
| | | | 195MC | 193.25MC 197.75MC | 10 | | A27 | |
| | | | 189MC | 187.25MC 191.75MC | 9 | | A28 | |
| | | | 183MC | 181.25MC 185.75MC | 8 | | A29 | |
| | | | 177MC | 175.25MC 179.75MC | 7 | | A30 | |
| | | | 85MC | 83.25MC 87.75MC | 6 | | A31 | |
| | | | 79MC | 77.25MC 81.75MC | 5 | | A32 | |
| | | | 69MC | 67.25MC 71.75MC | 4 | | A33 | |
| | | | 63MC | 61.25MC 65.75MC | 3 | | A34 | |
| | | | 57MC | 55.25MC 59.75MC | 2 | | A35 | |

VHF OSCILLATOR ALIGNMENT FOR TUNER #94E144-8

Always make adjustments on the lowest channel first, then work up, in order of channel number to the highest channel.
Turn the set on and allow the receiver to warm-up for 15 minutes. Set the channel selector to the lowest channel operating in the area and set the fine tuning to the center of its range by rotating approximately 2 complete turns in one direction and then back 1/4 turn.
Using a 1/8" blade non-metallic alignment tool, carefully adjust oscillator slug until sound bars just appear in the picture. Then turn the slug in the direction of best picture until the sound bars just disappear. Repeat this procedure for each remaining channel adjusting them in order of their channel number. NOTE: When two slugs are visible from the front of the tuner, adjust the top one.

VHF RF AND MIXER ALIGNMENT FOR TUNERS #94D131-1 AND 94D131-2

Connect bias as under "VHF Oscillator Alignment".
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.
Set the fine tuning to the center of its range.
Use only enough sweep generator output to provide a usable pattern on scope.
Use 10MC sweep unless otherwise noted.
To perform step 22, increase the bias at point Ⓚ to a voltage just before cut-off of the RF tube and at the same time increase sweep input signal to maintain 2 volts peak to peak on the scope at point Ⓑ.

| | DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 21. | Two 120Ω Carbon Resistors | Across antenna terminals with 120Ω in each lead. | 195MC | 193.25MC 197.75MC | 10 | Vert. Amp. thru network (Fig. 1) to point Ⓓ. Low side to chassis. | A36, A37 | Adjust A36 and A37 for response similar to Fig. 5 with markers shown. |
| 22. | " | " | " | " | " | " | A38 | Adjust for flat response. (See Fig. 5). |
| 23. | " | " | 213MC | 211.25MC 215.75MC | 13 | " | | Check for response similar to Fig. 5. If video marker falls below 50% on any channel, make compromise adjustment of A36 and A37 with channel switch set to that channel. Check all other channels to see that they have not been seriously affected. |
| | | | 207MC | 205.25MC 209.75MC | 12 | | | |
| | | | 201MC | 199.25MC 203.75MC | 11 | | | |
| | | | 189MC | 187.25MC 191.75MC | 9 | | | |
| | | | 183MC | 181.25MC 185.75MC | 8 | | | |
| | | | 177MC | 175.25MC 179.75MC | 7 | | | |
| | | | 85MC | 83.25MC 87.75MC | 6 | | | |
| | | | 79MC | 77.25MC 81.75MC | 5 | | | |
| | | | 69MC | 67.25MC 71.75MC | 4 | | | |
| | | | 63MC | 61.25MC 65.75MC | 3 | | | |
| | | | 57MC | 55.25MC 59.75MC | 2 | | | |

# ALIGNMENT INSTRUCTIONS (cont)

VHF RF AND MIXER ALIGNMENT FOR TUNER #94E107-1

Connect bias as under "VHF Oscillator Alignment".
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.
Use only enough sweep generator output to provide a usable pattern on scope.
Use 10MC sweep unless otherwise noted.

| | DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 24. | Two 120Ω Carbon Resistors | Across antenna terminals with 120Ω in each lead. | 195MC | 193.25MC | 10 | Vert. Amp. thru network (Fig. 1) to point Ⓓ. Low side to chassis. | A39, A40, A41 | Adjust A39, A40 and A41 for response similar to Fig. 5 with video marker at 50%. |
| 25. | " | " | 213MC | 211.25MC | 13 | " | | Check for response similar to Fig. 5. If markers fall below 50% on any channel, make compromise adjustments of A39, A40 and A41 with channel switch set to that channel. Check all other channels to see that they have not been seriously affected. |
| | | | 207MC | 205.25MC | 12 | | | |
| | | | 201MC | 199.25MC | 11 | | | |
| | | | 189MC | 187.25MC | 9 | | | |
| | | | 183MC | 181.25MC | 8 | | | |
| | | | 177MC | 175.25MC | 7 | | | |
| | | | 85MC | 83.25MC | 6 | | | |
| | | | 79MC | 77.25MC | 5 | | | |
| | | | 69MC | 67.25MC | 4 | | | |
| | | | 63MC | 61.25MC | 3 | | | |
| | | | 57MC | 55.25MC | 2 | | | |

IF TRAP ALIGNMENT

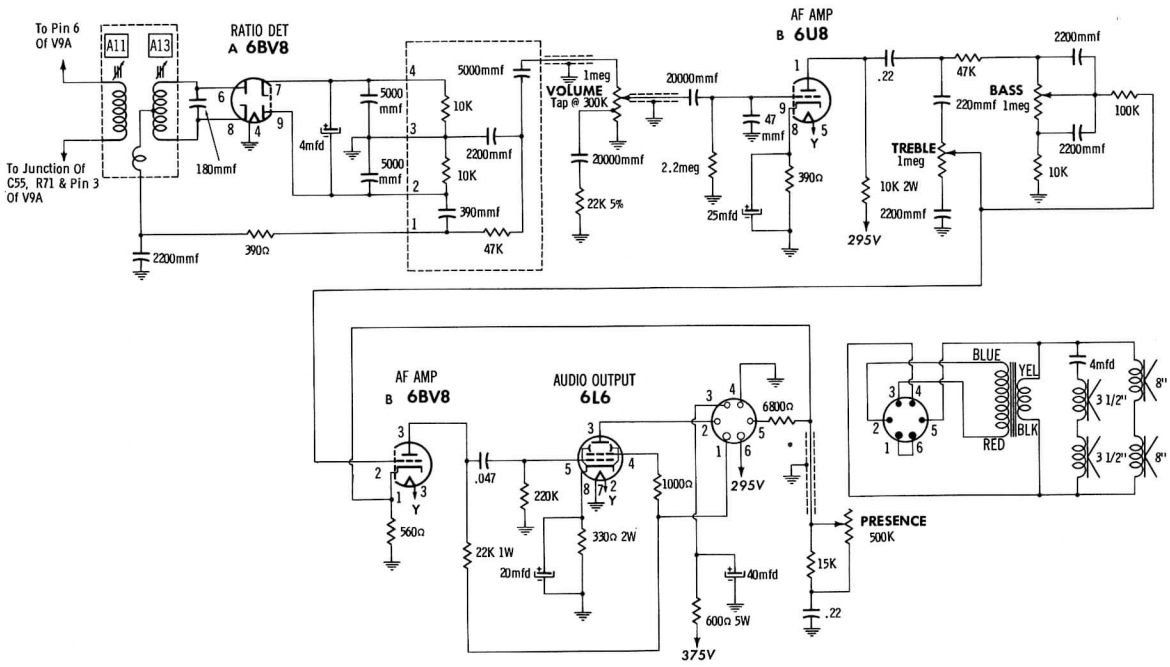
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.
Use only enough sweep generator output to provide a usable pattern on scope.

| | DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 26. | Two 120Ω Carbon Resistors | Across antenna terminals with 120Ω in each lead. | 43.0MC (7MC Swp) | Not used | Any non-interfering channel | Vert. Amp. thru decoupling network (Fig. 1) to point Ⓓ. Low side to chassis. | A42 | Adjust for MINIMUM response on scope. |

UHF IF ALIGNMENT FOR TUNER #94E107-1

Connect the negative lead of a 3 volt bias supply to point Ⓚ. Positive to chassis.
Remove the mixer crystal from the UHF tuner.
Remove the IF input cable from the tuner IF output socket.
If a separate marker generator is used, couple loosely to the high side of the sweep generator output cable.

| | DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 27. | 100Ω Resistor | High side to point Ⓛ. Low side to chassis. | 43.5MC (12MC Swp) | 41.25MC 45.75MC | UHF | Vert. Amp. thru 10K to point Ⓜ. Low side to chassis. | A43 | Check for response curve similar to Fig. 6. If not within tolerance, adjust A43 for maximum gain and symmetry similar to Fig. 6. |
| 28. | " | " | " | " | " | Vert. Amp. thru decoupling network (Fig. 1) to point Ⓓ. Low side to chassis. | | Check for response curve similar to Fig. 5. If necessary, make SLIGHT compromise adjustment of A43 for desired response. |

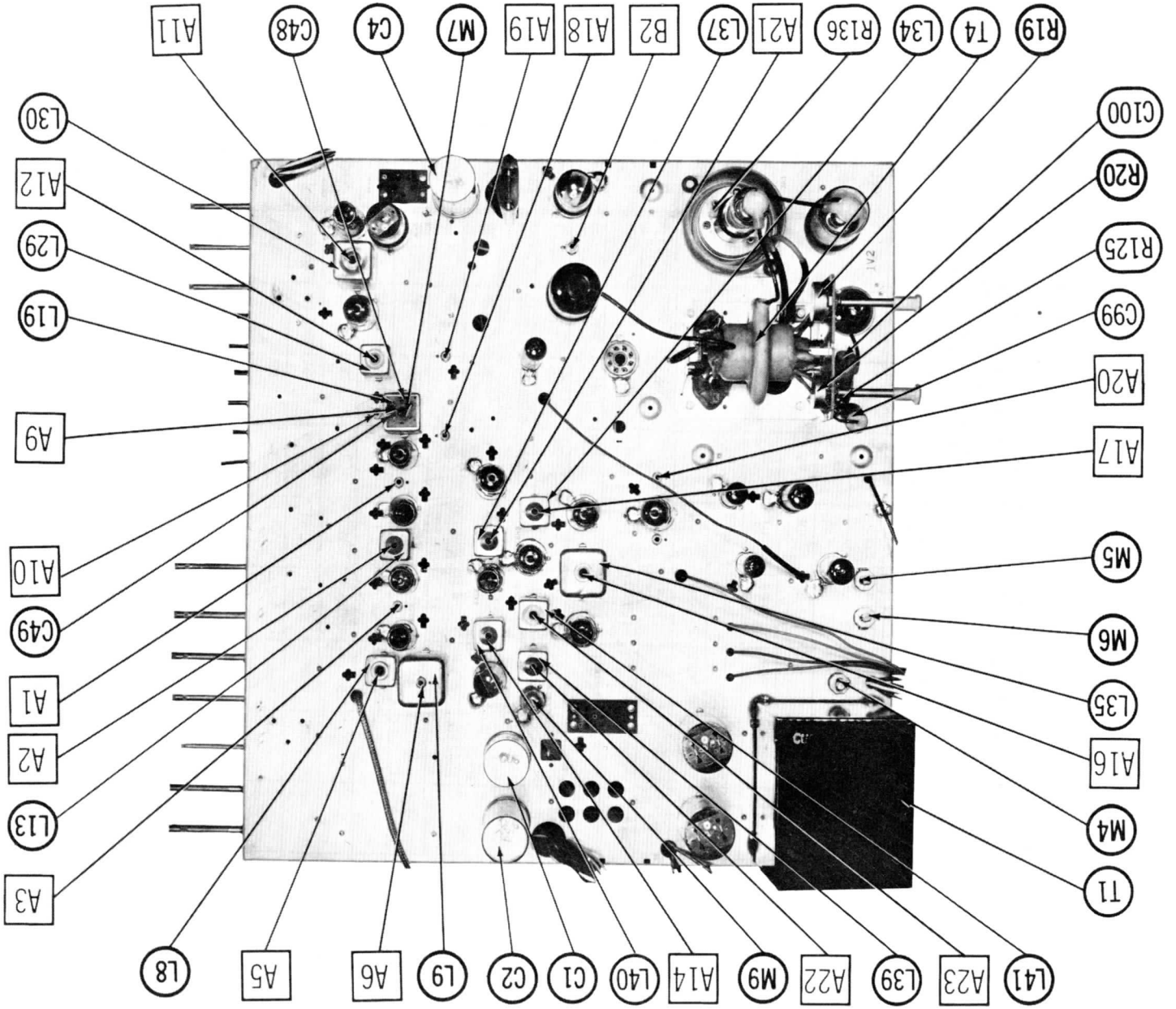



Alternate Audio Circuit Used In Chassis 29Z18

A PHOTOFACT STANDARD NOTATION SCHEMATIC
Howard W. Sams & Co., Inc. 1958

# ALTERNATE SOUND CIRCUIT

CHASSIS TOP VIEW

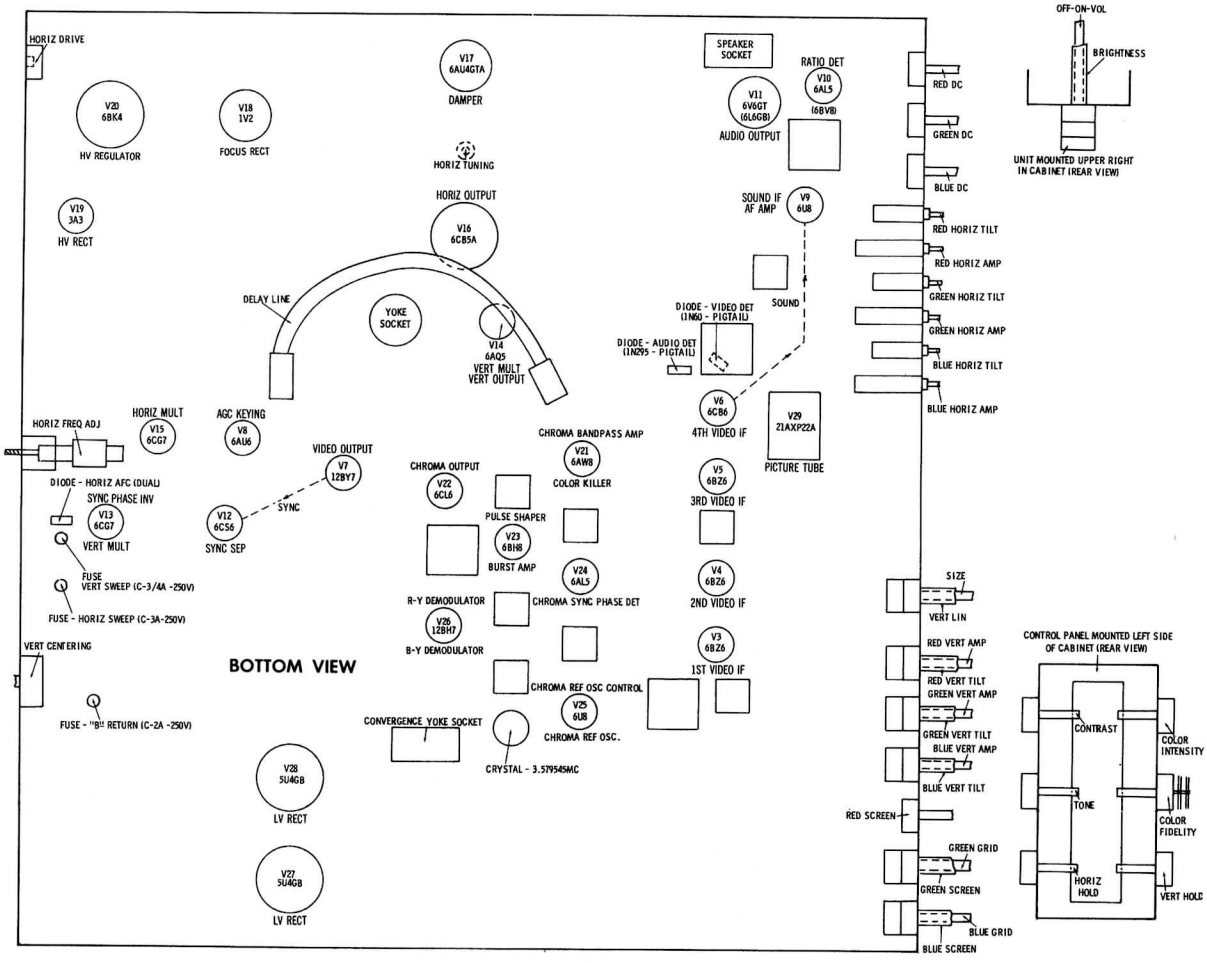


# RESISTANCE MEASUREMENTS

| ITEM | TUBE | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 | Pin 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| V1 | 6BN4 | 0Ω | 4Meg | 0Ω | .1Ω | †7200Ω | 0Ω | 4Meg | | |
| V2 | 6CG8 | 10K | †20K | 0Ω | 0Ω | .1Ω | †13K | †24K | 0Ω | 224K |
| V3 | 6BZ6 | 150K | 56Ω | .1Ω | 0Ω | †5900Ω | †5900Ω | 0Ω | | |
| V4 | 6BZ6 | 150K | 56Ω | .1Ω | 0Ω | †5900Ω | †5900Ω | 0Ω | | |
| V5 | 6BZ6 | 68K | 62Ω | .1Ω | 0Ω | †5900Ω | †5900Ω | 0Ω | | |
| V6 | 6CB6 | .1Ω | 470Ω | .1Ω | 0Ω | †5500Ω | †5500Ω | 0Ω | | |
| V7 | 12BY7 | • 85Ω | 4300Ω | 0Ω | .1Ω | .1Ω | 0Ω | †6500Ω | †17K | 0Ω |
| V8 | 6AU6 | †45K | †450Ω | 120K | 120K | 1.5Meg | †17Ω | †450Ω | | |
| V9 | 6U8 | †100K | 3.8Ω | †10K | 0Ω | .1Ω | †10K | 120Ω | 470Ω | 2.2Meg |
| V10 | 6AL5 | 10K | 10K | .1Ω | 0Ω | INF | 0Ω | INF | | |
| V11 | 6V6GT | NC | .1Ω | ■ 2700Ω | ■ 2500Ω | 220K | NC | 0Ω | 330Ω | |
| V12 | 6CS6 | 5200Ω | 0Ω | 0Ω | .1Ω | †50K | †25K | 3.3Meg | | |
| V13 | 6CG7 | • ‡3.5Meg | • 2.3Meg | 0Ω | 0Ω | .1Ω | †13K | 1.5Meg | 2200Ω | 0Ω |
| V14 | 6AQ5 | • 1.7Meg | 48Ω | 0Ω | .1Ω | ■ 2900Ω | ■ 2500Ω | • 1.7Meg | | |
| V15 | 6CG7 | • ■ 35K | 550K | 2000Ω | 0Ω | .1Ω | • ■ 160K | • 160K | 2000Ω | 0Ω |
| V16 | 6CB5A | ■ 12K | .1Ω | 22Ω | 1Meg | 1Meg | 22Ω | 0Ω | ■ 12K | TOP CAP ‡24Ω |
| V17 | 6AU4GTA | NC | NC | ¶ | NC | ■ 1Ω | NC | .1Ω | 0Ω | |
| V18 | 1V2 | NC | NC | NC | 30Meg | 30Meg | 30Meg | NC | NC | • ‡37K |
| V19 | 3A3 | PINS 1 THRU 8 HAVE INFINITE RESISTANCE | | | | | | | | TOP CAP ‡500Ω |
| V20 | 6BK4 | ¶ | 150K | NC | NC | 1Meg | NC | 150K | NC | TOP CAP INF |
| V21 | 6AW8 | 0Ω | 2.7Meg | †13K | 0Ω | .1Ω | 2300Ω | 1.2Meg | †11K | †3000Ω |
| V22 | 6CL6 | 470Ω | 2.6Ω | †16K | .1Ω | 0Ω | †1000Ω | 0Ω | †16K | NC |
| V23 | 6BH8 | • 550Ω | 6800Ω | †47K | 0Ω | .1Ω | 5200Ω | 90Ω | †1500Ω | †1500Ω |
| V24 | 6AL5 | 2Meg | 1Meg | 0Ω | .1Ω | 100Ω | 0Ω | 1Meg | | |
| V25 | 6U8 | †380K | 100K | †37K | .1Ω | 0Ω | †3700Ω | 0Ω | 0Ω | 4Meg |
| V26 | 12BH7 | †18K | 5800Ω | 3300Ω | .1Ω | .1Ω | †35K | 5800Ω | 3300Ω | 0Ω |
| V27 | 5U4GB | NC | ¶ | NC | 9.5Ω | NC | 9Ω | NC | ¶ | |
| V28 | 5U4GB | NC | ¶ | TP | 9.5Ω | TP | 9Ω | NC | ¶ | |
| V29 | 21AXP22A | 120K | • 100K | • 500K | • †47K | • †47K | • 75K | • 400K | NC | 32Meg |
| V30 | | PIN 10 NC | PIN 11 • 450K | PIN 12 • 80K | PIN 13 • †47K | PIN 14 120K | | | | |

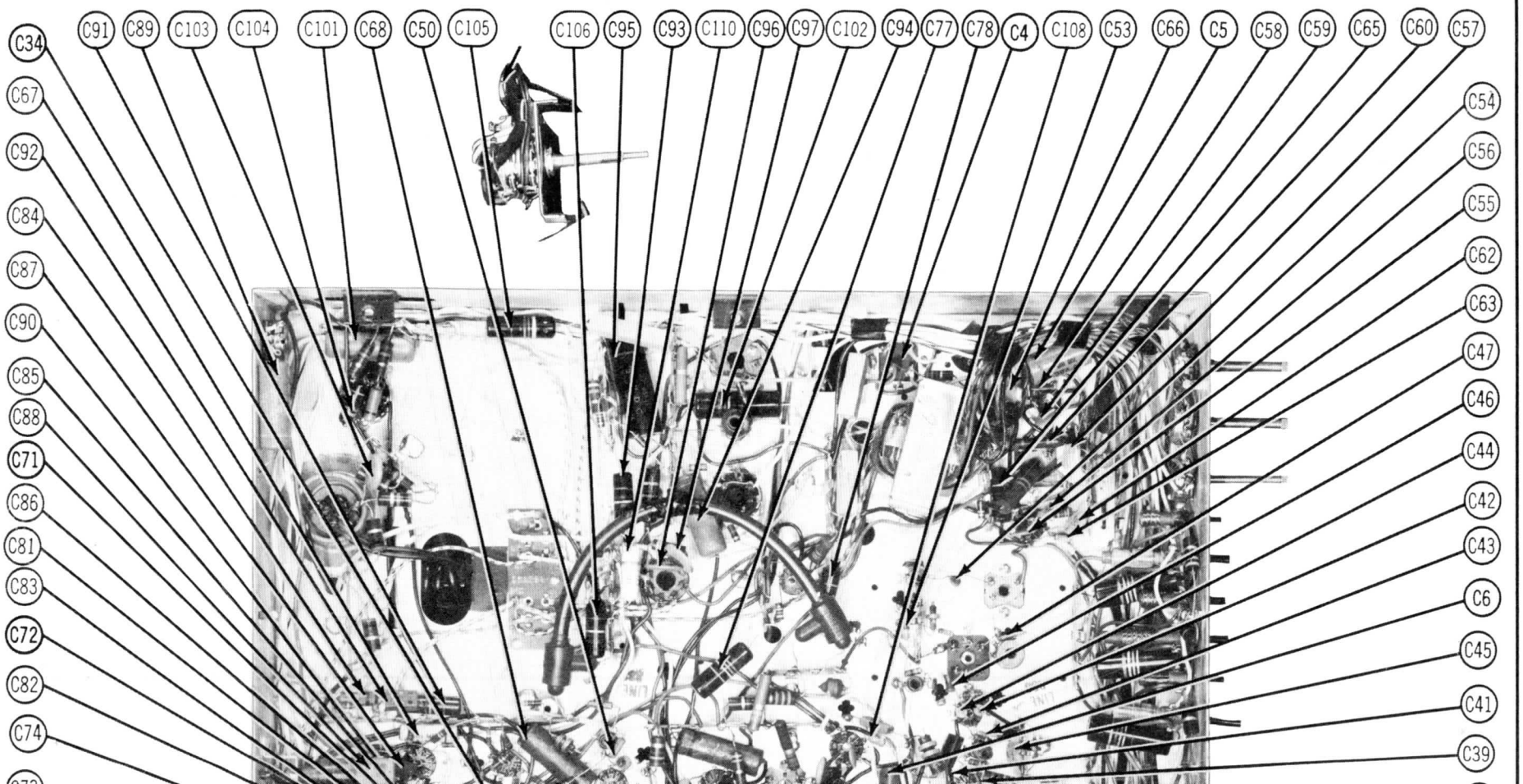
- • THIS READING WILL VARY. CONTROL SET FOR NORMAL OPERATION
- † MEASURED FROM PIN 8 OF V28.
- ‡ MEASURED FROM PIN 3 OF V17.
- ■ MEASURED FROM PIN 7 OF YOKE SOCKET.
- ¶ THIS READING CAN VARY GREATLY, (10K MINIMUM), DUE TO THE CONDITION OF THE ELECTROLYTIC CAPACITOR CONNECTED IN THE ASSOCIATED CIRCUIT.
- NC NO CONNECTION .
- TP TIE POINT.

# TUBE PLACEMENT CHART




ADMIRAL MODELS C322C2, 3, 16, 17, 26, 27, CA322C16, 17, 26, 27, CS322C2, 3, 16, 17, 26, 27, LC322C36, 37, 39, LCS322C36, 37, 39 (Ch. 29AZ1, 29SZ1, B, 29Z1, B)

FOLDER 1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C77
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C4
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C74
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C62
C63
C47
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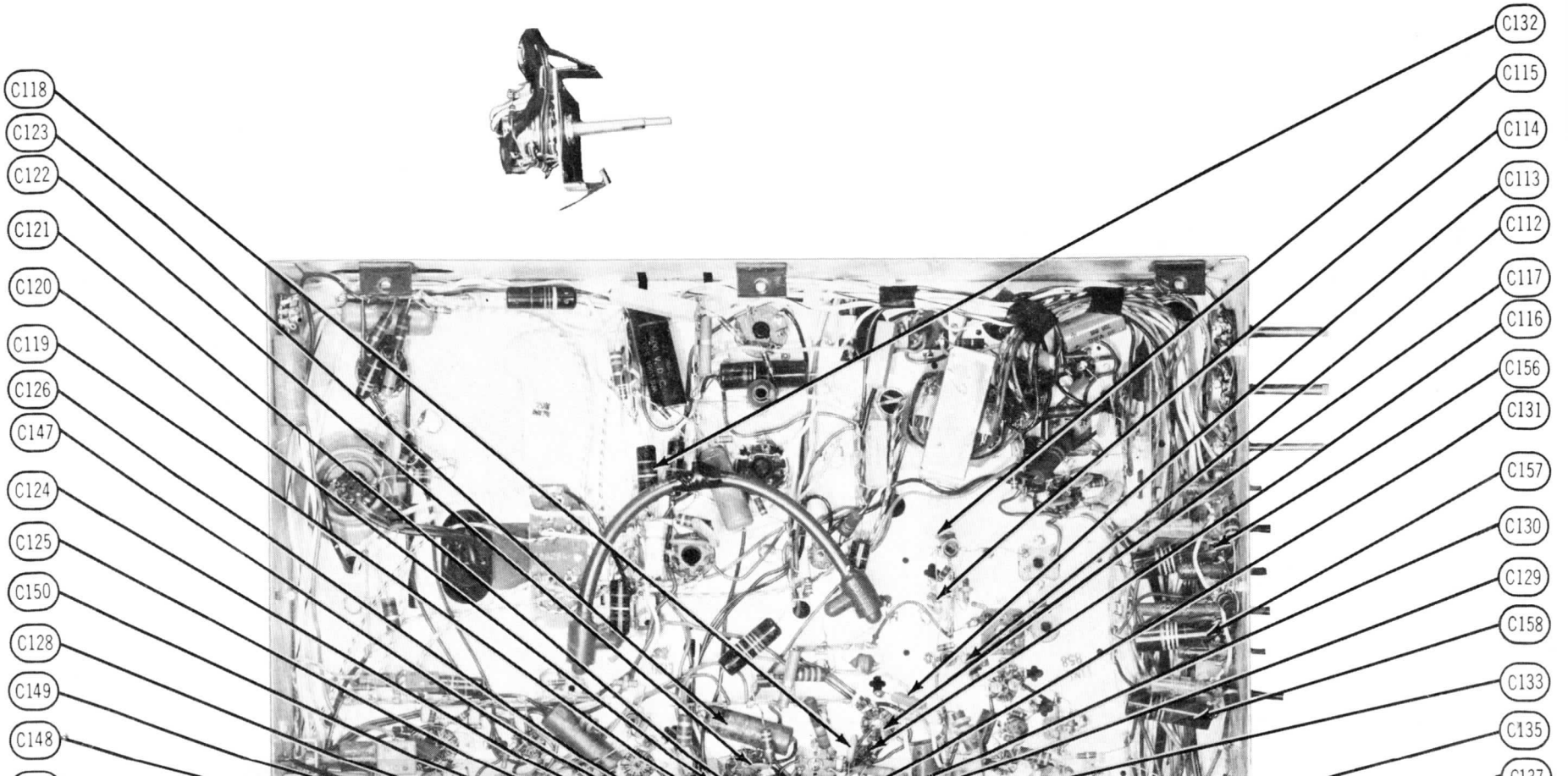
C43
C6
C45
C41
C39

CHASSIS BOTTOM VIEW — CAPACITOR IDENTIFICATION (C1 THRU C111)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C113
C112
C117
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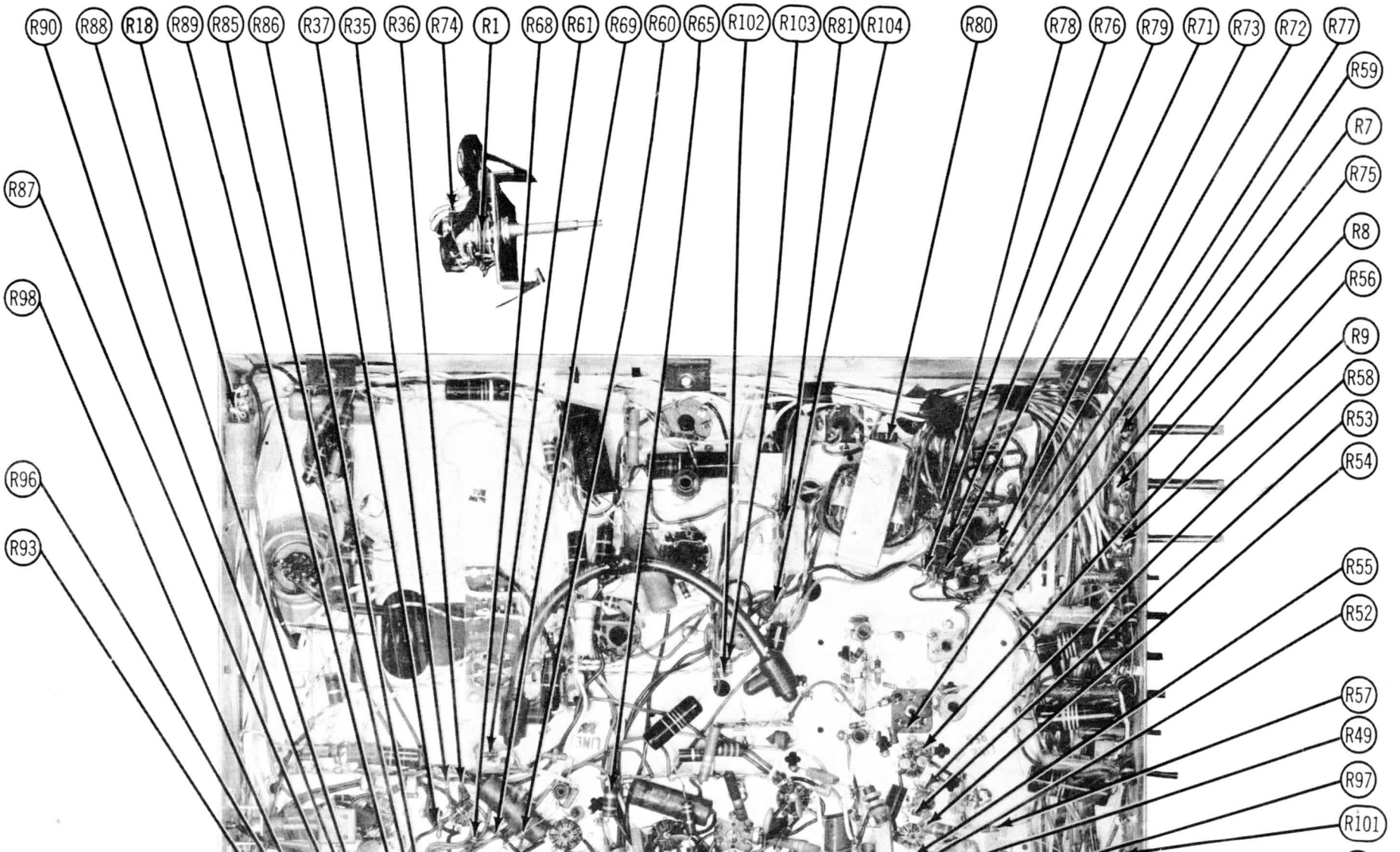
CHASSIS BOTTOM VIEW — CAPACITOR IDENTIFICATION (C112 THRU C160)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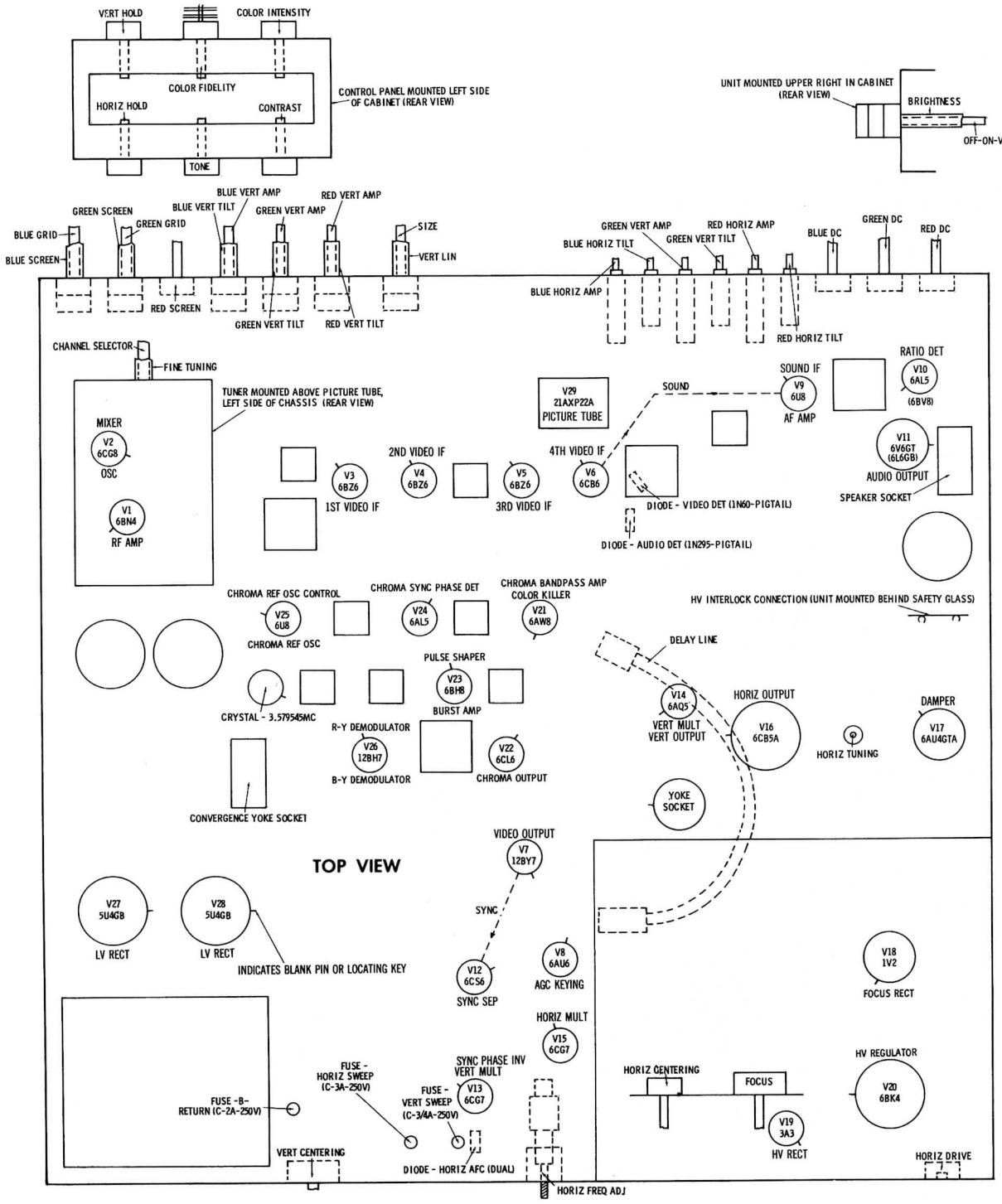
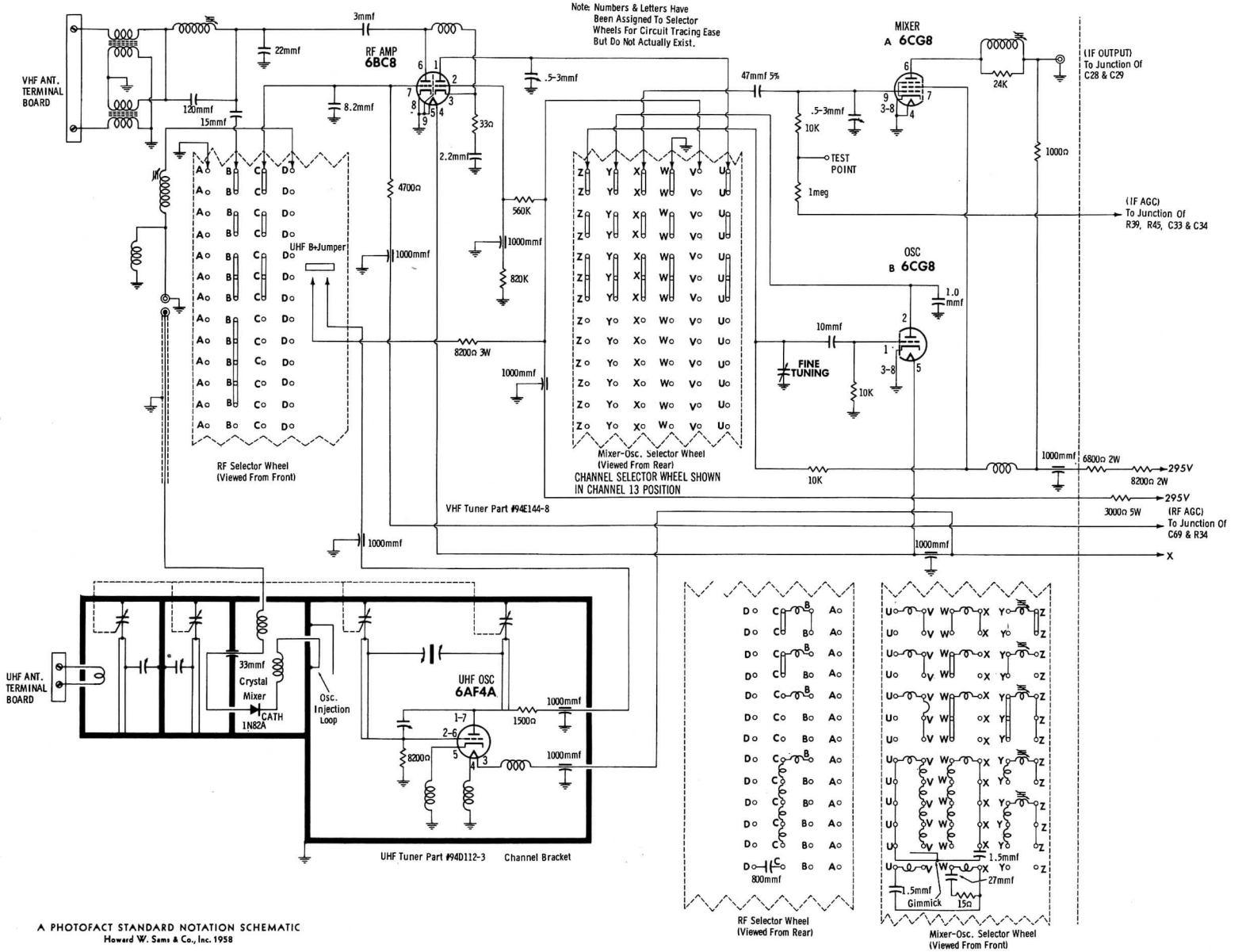
R93

CHASSIS BOTTOM VIEW — RESISTOR IDENTIFICATION (R1 THRU R105)



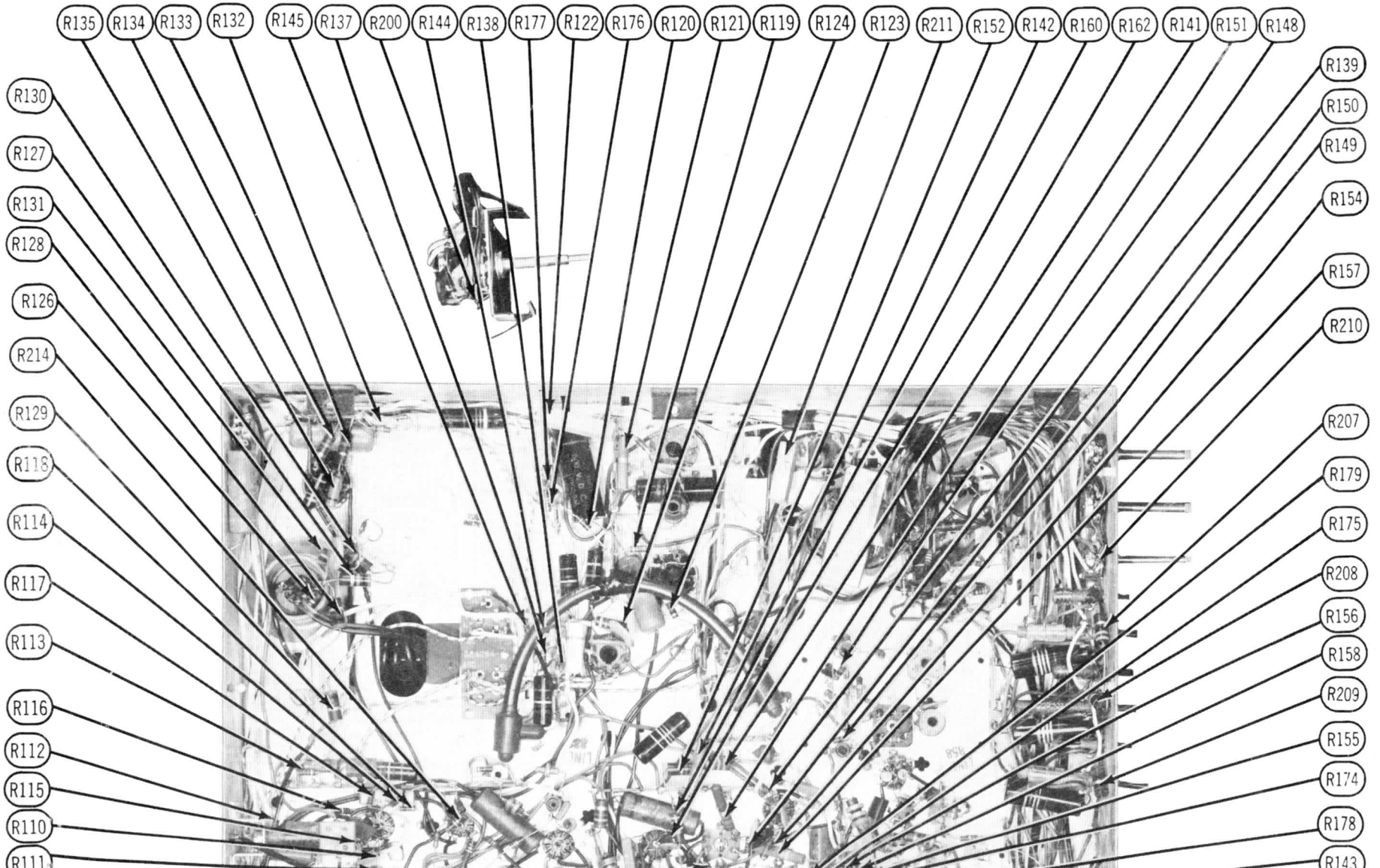

# TUBE PLACEMENT CHART




A PHOTOFACT STANDARD NOTATION SCHEMATIC
Howard W. Sams & Co., Inc. 1958

## ALTERNATE TUNER SCHEMATIC

**ADMIRAL MODELS C3222C2, 3, 16, 17, 26, 27, CA3222C16, 17, 26, 27, CS3222C2, 3, 16, 17, 26, 27, LC3222C36, 37, 39, LCS3222C36, 37, 39 (Ch. 29AZ1, 29SZ1, B, 29Z1, B)**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R175
R208
R156
R158
R209
R155
R174
R178
R143

CHASSIS BOTTOM VIEW — RESISTOR IDENTIFICATION (R108 THRU R215)

# MISCELLANEOUS ADJUSTMENTS

## HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the set on and tune in a TV station, preferably with a test pattern.

Set the horizontal hold control to the center of its range. Adjust the horizontal frequency slug (B1) until the picture synchronizes horizontally.

Turn the horizontal drive control (R18) clockwise until drive line(s) appear, then back until line(s) just disappear. If no drive lines appear, set fully clockwise.

The horizontal tuning adjustment of the color set is much more important than for black and white receivers. While misadjustment of the horizontal tuning may not be noticable in the picture, it can result in damage to the horizontal output tube or associated components. For this reason, the tuning is set at the factory and need not be readjusted unless the horizontal output tube, horizontal tuning coil or other associated components have been replaced. In such case the following procedure for adjusting the tuning is recommended.

1. Remove fuse (M6) from its holder.
2. Connect a 0-500 milliammeter across the fuse holder with the positive terminal to the top cap.
3. Tune in a black and white picture. Adjust the brightness, contrast, focus and vertical controls for normal operation.
4. Adjust the horizontal tuning slug (B2) for MINIMUM current reading. Repeat adjustment of the drive control as outlined above.
5. Adjust the horizontal centering control (R20) to center the picture.
6. Make sure that the line voltage is maintained at 117 volts.
7. Set the contrast and brightness controls are fully counter clockwise (beam cut-off).
8. Connect a 0-1 DC milliammeter in series with the cathode (pin 1) of the regulator tube (6BK4, V20). A test jumper is provided for meter insertion. CAUTION: Meter is at B+ potential. Be sure to isolate from chassis.
9. Readjust B2 in the direction of less inductance, (slug moving outward from coil) until the cathode current of the horizontal output tube is approximately 200 milliamperes. Do not exceed 210 milliamperes. The high voltage should range between 18.5 and 21.5KV with regulator current of 750 to 1000 microamperes. Optimum setting is 200 milliamperes output tube current with 20KV high voltage and regulator current of 950 microamperes.

Remove the test equipment and replace test jumper wire and fuse.

## COLOR STRIPE TEST

The test point located on the rear apron of the chassis is for the purpose of checking color reception in those areas where color stripes are transmitted during black and white transmission. To make color stripe test, proceed as follows:

1. Tune in a black and white station transmitting a color stripe.
2. Connect a clip lead from the color stripe test point to chassis. The picture will shift to the left and permit viewing of the color stripe on the right side.
3. If necessary, readjust the fine tuning, with the color intensity control set near maximum. Stripes should appear in color. If not, the receiver is not reproducing color.
4. To check color intensity, vary the color fidelity throughout its range. At some settings the color stripe should appear yellowish green, if not, receiver will not reproduce correct colors.
5. If the color stripe appears to contain colored bars, which keep changing colors, the receiver is not in "Color Sync". See "Color Sync Alignment".

## COLOR PURITY ADJUSTMENTS

| STEP | ADJUST | REMARKS |
|---|---|---|
| 1. | Contrast Control | MINIMUM contrast. |
| 2. | Brightness Control | Near maximum. |
| 3. | Green and blue screens | MINIMUM. |
| 4. | Green and blue grids | MINIMUM. |
| 5. | Red screen | Bright red raster. |
| 6. | Rim magnets | Best purity around raster edges. |
| 7. | If entire raster appears red, proceed with steps 21 and 27. If the entire raster cannot be made pure red, continue with step 8. | |
| 8. | Rim magnets | MINIMUM. (Pull all the way out.) |
| 9. | Red, green and blue horizontal convergence amplitude slugs (B3, B4 and B5). | Adjustment screw extending 3/8" outward from each coil form. |
| 10. | Red, green and blue horizontal convergence tilt slugs (B6, B7 and B8). | Adjustment screw extending 3/8" outward from each coil form. |
| 11. | Red, green and blue vertical amplitude (R11B, R12B and R13B). | Fully counter clockwise. |
| 12. | Red, green and blue vertical tilt (R11A, R12A and R13A). | Center of rotation. |
| 13. | Purity Magnet Rings | Colored tabs together. |
| 14. | Connect a white dot generator to the receiver. | |
| 15. | Contrast control | Fully clockwise. |

## COLOR PURITY ADJUSTMENTS (CON'T)

| | | |
|---|---|---|
| 16. | Red, green and blue screens. | Fully counter clockwise. |
| 17. | Green and blue grids | Fully counter clockwise. |
| 18. | Brightness Control | Until the raster is just extinguished. |
| 19. | Red, green and blue screens and the blue green grids. | For small equal dots. If necessary, readjust focus. |
| 20. | Red, green and blue DC, and blue lateral magnet. | Small white dots at the center of the screen. |
| 21. | Alternately check the purity of the red,green and blue fields by turning the appropriate grid and screen controls and repeating step 6 for each field if necessary. | |
| 22. | If color impurity exists, set controls for a red raster and continue with step 23. | |
| 23. | Loosen the wing bolt on each side of the yoke. | |
| 24. | Purity magnet rings. | Spread the tabs apart and rotate the entire purity magnet assembly for purest overall red field. If necessary, repeat until best purity is obtained. |
| 25. | Deflection yoke. | Move back and forth to locate point of purest red field. If necessary, repeat steps 24 and 25. |
| 26. | Rim magnets | Adjust by pushing in or pulling out and rotating for best edge purity. It may be necessary to compromise. |
| 27. | Repeat step 21. Tighten the wing bolts securing the yoke after the individual red, green and blue fields appear pure without further adjustment of step 6. | |

## CONVERGENCE ADJUSTMENTS

| STEP | ADJUST | REMARKS |
|---|---|---|
| 1. | Perform steps 14 thru 19 under "Color Purity Adjustments". | |
| 2. | Check the dot convergence. If the convergence appears to need only touch-up adjustments, disregard steps 3 thru 6. | |
| 3. | Red, green and blue vertical tilt controls. | Set to the center of rotation. |
| 4. | Red, green and blue vertical amplitude controls. | Set fully counter clockwise. |
| 5. | Red, green and blue horizontal tilt slugs. | Adjust so that the screw extends 3/8" from the coil form end. |
| 6. | Red, green and blue horizontal amplitude slugs. | Adjust so that the screw extends 3/8" from the coil form end. |
| 7. | Red, green and blue DC; and blue lateral magnets. | Adjust for white dots in the central area of the raster. |
| 8. | Switch generator to vertical line pattern. | |
| 9. | Green and blue grids; red, green and blue screens. | Adjust for equal intensity vertical white line pattern. |
| 10. | Red and green vertical amplitude; and red and green vertical tilt. | Adjust for straight red and green vertical lines (using blue lines as reference). Repeat until correct results are obtained. |
| 11. | Red and green DC | Converge red and green vertical lines over blue lines at the center of the screen. If necessary, repeat step 10. |
| 12. | Blue vertical tilt and blue vertical amplitude | Switch to horizontal line pattern. Adjust blue lines so that they are equally spaced or coincident with red and green horizontal lines from top to bottom at center of the screen. If necessary, repeat step 11. |
| 13. | Switch to vertical line pattern. The red, green and blue vertical lines at center of screen should be converged forming a white line. If not, repeat steps 10 and 11. | |
| 14. | Switch to horizontal line pattern. The red, green and blue horizontal lines should coincide at the center of the screen. If not, repeat step 12. | |
| 15. | Blue horizontal amplitude and blue horizontal tilt. | Turn fully counter clockwise. |
| 16. | Blue horizontal amplitude. | Adjust clockwise for downward bow of blue horizontal line SLIGHTLY to the right of the center. |
| 17. | Blue horizontal tilt. | Adjust clockwise to make blue center horizontal line as straight as possible. |
| 18. | Red, green and blue DC | Adjust for convergence at center of the screen. |

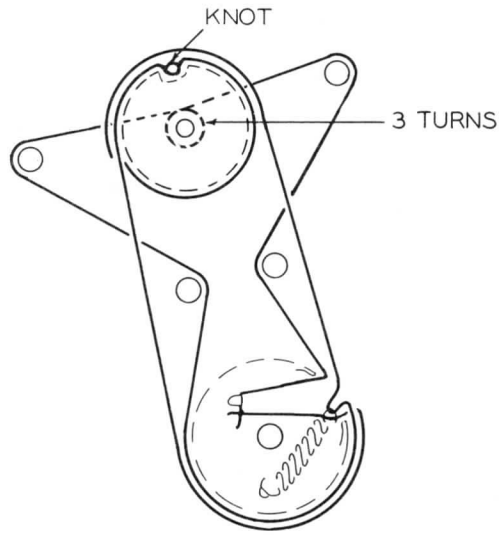
# MISCELLANEOUS ADJUSTMENTS (cont.)

CONVERGENCE ADJUSTMENTS (Con't)

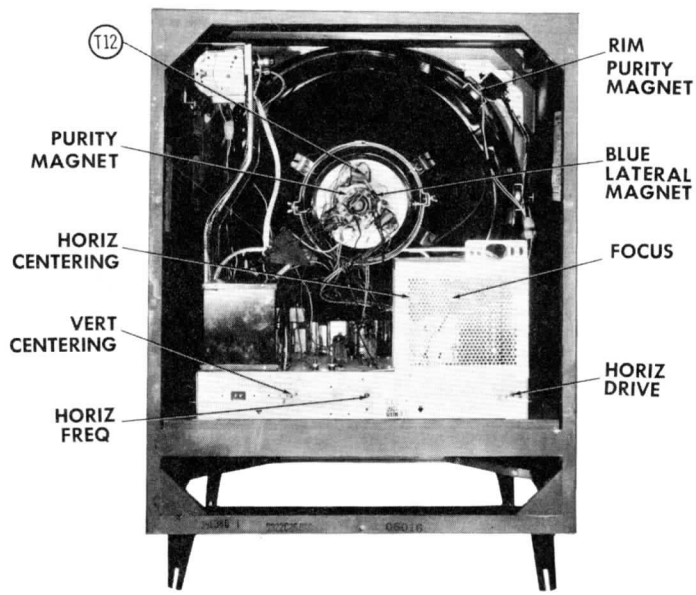
| | |
|---|---|
| 19. | Repeat steps 15 thru 18 for red and green horizontal lines. NOTE: The bow of the red and green horizontal lines will be SLIGHTLY upward to the right of the center of the screen. |
| 20. | Switch generator to the dot pattern. Observe the overall convergence of the dot pattern. Touch-up the adjustments for clearly defined white dots at the center area of the screen |

BLACK AND WHITE TRACKING ADJUSTMENT

| STEP | ADJUST | REMARKS |
|---|---|---|
| 1. | Contrast control. | Fully counter clockwise. |
| 2. | Green and blue grids. | Fully counter clockwise. |
| 3. | Red, green and blue screens. | One-third from fully counter clockwise. |
| 4. | Brightness control. | Fully clockwise, then counter clockwise until raster is just extinguished. |
| 5. | Green grid. | Fully clockwise, then counter clockwise until raster is just extinguished. |
| 6. | Blue grid. | Fully clockwise, then counter clockwise until raster is just extinguished. |
| 7. | Tune in a black and white signal and check color of picture. The picture should remain black and white throughout the usable range of the contrast and brightness controls. If the picture appears greenish, perform steps 8 and 10. If the picture appears bluish, perform steps 9 and 11. If the picture appears reddish, perform step 12. If the picture still is not black and white, repeat the entire procedure. | |
| 8. | Green screen. | Turn very SLIGHTLY clockwise. |
| 9. | Blue screen | Turn very SLIGHTLY clockwise. |
| 10. | Green grid. | Very SLIGHTLY counter clockwise until the picture is black and white. |
| 11. | Blue grid . | Very SLIGHTLY counter clockwise until the picture is black and white. |
| 12. | Red screen. | Very SLIGHTLY counter clockwise until the picture is black and white. |




## UHF DRIVE CORD STRINGING




## CABINET—REAR VIEW

# PARTS LIST AND DESCRIPTIONS

## TUBES ( GENERAL ELECTRIC, SYLVANIA)

| ITEM No. | USE | TYPE | NOTES |
|---|---|---|---|
| V1 | RF Amplifier | 6BN4 | |
| V2 | Mixer-Oscillator | 6CG8 | |
| V3 | 1st. Video IF Amp. | 6BZ6 | |
| V4 | 2nd. Video IF Amp. | 6BZ6 | |
| V5 | 3rd. Video IF Amp. | 6BZ6 | |
| V6 | 4th. Video IF Amp. | 6CB6 | |
| V7 | Video Output | 12BY7 | |
| V8 | AGC Keying | 6AU6 | |
| V9 | Sound IF Amp. -AF Amp. | 6U8 | |
| V10 | Ratio Det. | 6AL5 | Note 1 |
| V11 | Audio Output | 6V6GT | Note 2 |
| V12 | Sync Sep. | 6CS6 | |
| V13 | Sync Amp. -Vert. Mult. | 6CG7 | |
| V14 | Vert. Mult. -Vert. Output | 6AQ5 | |
| V15 | Horiz. Mult. | 6CG7 | |
| V16 | Horiz. Output | 6CB5A | |

| ITEM No. | USE | TYPE | NOTES |
|---|---|---|---|
| V17 | Damper | 6AU4GTA | |
| V18 | Focus Rectifier | 1V2 | |
| V19 | HV Rectifier | 3A3 | |
| V20 | HVRegulator | 6BK4 | |
| V21 | 1st. Chroma Bandpass Amp. -Color Killer | 6AW8 | |
| V22 | Chroma Output | 6CL6 | |
| V23 | Pulse Shaper- Burst Amp. | 6BH8 | |
| V24 | Chroma Sync Phase Det. | 6AL5 | |
| V25 | Chroma Ref. Osc. Control-Chroma Ref. Osc. | 6U8 | |
| V26 | R-Y Demodulator - B-Y Demodulator | 12BH7 | |
| V27 | LV Rectifier | 5U4GB | |
| V28 | LV Rectifier | 5U4GB | |

Note 1. Chassis 29Z1B, 29SZ1B use a 6BV8 in this application.
Note 2. Chassis 29Z1B, 29SZ1B use a 6L6GB in this application.

## PICTURE TUBE

| ITEM No. | REPLACEMENT DATA | | | NOTES |
|---|---|---|---|---|
| | ADMIRAL PART No. | GENERAL ELECTRIC PART No. | SYLVANIA PART No. | |
| V29 | 21AXP22A | 21AXP22A | 21AXP22A | |

## ELECTROLYTIC CAPACITORS

| ITEM No. | RATING | | REPLACEMENT DATA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | CAP. | VOLT. | ADMIRAL PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | PYRAMID PART No. | SANGAMO PART No. | SPRAGUE PART No. |
| C1A | ▰80 | 450 | 67D15-137 | AFH4-18-10 | D0179 | FP450 | TMQ-122 | Q-067<br>MT-3512 | R2467* |
| B | ■10 | 350 | | | | | | | |
| C | ▲10 | 450 | | | | | | | |
| C2A | ▰100 | 450 | 67D15-136 | AFH2-64-25 | B0483<br>BR1045 | FP247<br>TC72 | TMS-61<br>TD-50-450 | S-285<br>MT-4550 | R2468 * |
| B | ▲50 | 450 | | | | | | | |
| C3 | 4 | 150 | 67A4-2 | PRS150V4 | BBR4-150 | TC40 | TD-4-150 | MT-1504 | TVA-1303 |
| C4A | ▰20 | 450 | 67D15-138 | AFH4-75 | | FP345.3<br>TC70 | | Q-380<br>MT-4504 | R2469 * |
| B | 20 | 25 | | | | | | | |
| C | ■50 | 350 | | | | | | | |
| D | ▲5 | 450 | | | | | | | |
| C5 | 4 | 50 | 67A4-9 | PRS150V4 | BBR4-50 | TC30 | TD-4-50 | MT-0504 | TVA-1303 |
| C6 | 4 | 150 | 67A4-2 | PRS150V4 | BBR4-150 | TC40 | TD-4-150 | MT-1504 | TVA-1303 |

* Non-catalog item.

## FIXED CAPACITORS

**Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.**

| ITEM No. | RATING | | REPLACEMENT DATA | | | | | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| | CAP. | VOLT | ADMIRAL PART No. | AEROVOX PART No. | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | ERIE PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| C7 | 120 | | 94D131-79 | NPO-SI 120 | D6-121 | L10T12 | ED-120 | | 5TCC-T12 | 10% |
| C8 | 30 | | 94D131-80 | | | | | | | 5% |
| C9 | 28 | | 94D131-81 | | | | | | | 10% |
| C10 | 12 | | 94D131-95 | | | | | | | 10% |
| C11 | 1000 | | 94D131-82 | EF-001 | MFT-1u00 | | | | 503C-D1 | |
| C12 | 1-4.5 | | 94D131-83 | | 829-6 | | 532-B | | | |
| C13 | 5 | | 94D131-84 | | | | | | | N900 |
| C14 | 1000 | | 94D131-85 | BPD-001 | DD-102 | BYA6D1 | ED-1000 | DC521 | 5HK-D1 | |
| C15 | 1000 | | 94D131-82 | EF-001 | MFT-1000 | | | | 503C-D1 | |
| C16 | 1-4.5 | | 94D131-83 | | 829-6 | | 532-B | | | |
| C17 | 1000 | | 94D131-82 | EF-001 | MFT-1000 | | | | 503C-D1 | |
| C18 | 1000 | | 94D131-82 | EF-001 | MFT-1000 | | | | 503C-D1 | |
| C19 | 1-4.5 | | 94D131-83 | | 829-6 | | 532-B | | | |
| C20 | 47 | | 94D131-87 | | | | | | | 10% |
| C21 | 30 | | 94D131-88 | | | | | | | 20% |
| C22 | 1000 | | 94D131-89 | | | | | | | N750 |
| C23 | 1000 | | 94D131-90 | EF-001 | MFT-1000 | | | | 503C-D1 | |
| C24 | 2.0 | | 94D131-93 | | | | | | | 5% N550 |
| C25 | 6.8 | | 94D131-92 | | | | | | | 10% N330 |
| C26 | 3.0 | | 94D131-91 | | | | | | | 10% NPO |
| C27 | 1000 | | 94D131-82 | EF-001 | MFT-1000 | | | | 503C-D1 | |
| C28 | 24 | | 65D6-112 | | TCZ-24 | CTA6Q24C | TCO-24 | | | 5% NPO |
| C29 | 10 | | 65D6-115 | NPO-SI 10 | TCZ-10 | CTA6Q1C | TCO-10 | ZT-541 | 5TCC-Q1 | 5% NPO |
| C30 | 820 | | 65D10-91 | SI 820 | DD-821 | L10T82 | ED-820 | | 5GA-T82 | |
| C31 | 820 | | 65D10-91 | SI 820 | DD-821 | L10T82 | ED-820 | | 5GA-T82 | |
| C32 | 820 | | 65D10-91 | SI 820 | DD-821 | L10T82 | ED-820 | | 5GA-T82 | |
| C33 | 20000 | | 65D10-28 | BPD-02 | DD-203 | BYB6S2 | ED-02 | | 5HK-S2 | |
| C34 | 1.0 | 100 | 64A10-3 | P288N-1.0 | | CUB2W1 | | GEM-21 | 2TM-M1 | |
| C35 | 820 | | 65D10-91 | SI 820 | DD-821 | L10T82 | ED-820 | | 5GA-T82 | |
| C36 | 820 | | 65D10-91 | SI 820 | DD-821 | L10T82 | ED-820 | | 5GA-T82 | |
| C37 | 820 | | 65D10-91 | SI 820 | DD-821 | L10T82 | ED-820 | | 5GA-T82 | |
| C38 | 5000 | | 65D10-5 | BPD-005 | DD-502 | BYA10D5 | ED-005 | DC525 | 5HK-D5 | |
| C39 | 820 | | 65D10-91 | SI 820 | DD-821 | L10T82 | ED-820 | | 5GA-T82 | |
| C40 | 5000 | | 65D10-5 | BPD-005 | DD-502 | BYA10D5 | ED-005 | DC525 | 5HK-D5 | |
| C41 | 820 | | 65D10-91 | SI 820 | DD-821 | L10T82 | ED-820 | | 5GA-T82 | |
| C42 | 820 | | 65D10-91 | SI 820 | DD-821 | L10T82 | ED-820 | | 5GA-T82 | |
| C43 | 820 | | 65D10-91 | SI 820 | DD-821 | L10T82 | ED-820 | | 5GA-T82 | |
| C44 | 820 | | 65D10-91 | SI 820 | DD-821 | L10T82 | ED-820 | | 5GA-T82 | |
| C45 | 5000 | | 65D10-5 | BPD-005 | DD-502 | BYB10D5 | ED-005 | DC525 | 5HK-D5 | |
| C46 | 100 | | 65D6-19 | N750-SI 100 | TCN-100 | CTA6T1U | TC7-100 | NT-531 | 5TCU-T1 | 10% N750 |
| C47 | 82 | | 65D10-98 | | TCZ-82 | C10Q82C | TCO-82 | | | 5% NPO |
| C48 | 4.7 | | 65D10-101 | NPO-SI 4.7 | TCZ-4R7 | C10V47C | TCO-4.7 | ZT-5547 | 5TCCB-V47 | 5% NPO |
| C49 | 6.8 | | 65D10-102 | NPO-SI 6.8 | TCZ-6R8 | C10V68C | TCO-6.8 | ZT-5568 | 5TCCB-V68 | 5% NPO |
| C50 | 150 | | 65B20-151 | 1469-00015 | | 22R5T15 | | | MS-315 | 5% |
| C51 | .0015 | 600 | 64B8-18 | BPD-0015 | D6-152 | CUB6D15 | GP-1500 | GEM-6215 | 6TM-D15 | |
| C52 | 10000 | | 65D10-3 | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C53 | 6.8 | | 65D6-82 | NPO-SI 6.8 | TCZ-6R8 | C10V68C | TCO-6.8 | ZT-5568 | 5TCCB-V68 | 10% |
| C54 | 3.3 | | 65D6-89 | NPO-SI 3.3 | TCZ-3R3 | C10V33C | TCO-3.3 | ZT-5533 | 5TCCB-V33 | 5% NPO |
| C55 | 2200 | | 65D10-89 | BPD-0022 | DD-222 | BYA10D22 | ED-0022 | UC-5222 | 5GA-D22 | |

## CAPACITORS (cont)

| ITEM No. | RATING CAP. | RATING VOLT | REPLACEMENT DATA ADMIRAL PART No. | AEROVOX PART No. | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | ERIE PART No. | MALLORY PART No. | SPRAGUE PART No. | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| C56 | 5000 | | 65D10-5 | BPD-005 | DD-502 | BYA10D5 | ED-005 | DC525 | 5HK-D5 | |
| C57 | 2200 | | 65D10-89 | BPD-0022 | DD-222 | BYA10D22 | ED-0022 | UC-5222 | 5GA-D22 | |
| C58 | 5000 | | 65D10-5 | BPD-005 | DD-502 | BYA10D5 | ED-005 | DC525 | 5HK-D5 | |
| C59 | 5000 | | 65D10-5 | BPD-005 | DD-502 | BYA10D5 | ED-005 | DC525 | 5HK-D5 | |
| C60 | 180 | | 65D10-52 | | | | | | | 5% N030 |
| C61 | 20000 | | 65D10-28 | BPD-02 | DD-203 | BYB6S2 | ED-02 | | 5HK-S2 | |
| C62 | 20000 | | 65D10-28 | BPD-02 | DD-203 | BYB6S2 | ED-02 | | 5HK-S2 | |
| C63 | 47 | | 65D10-80 | BPD-000047 | DD-470 | L10Q47 | ED-47 | | 5GA-Q47 | |
| C64 | .033 | 400 | 64B8-29 | BPD-03 | DF-303 | CUB6S33 | | GEM-6133 | 6TM-S33 | |
| C65 | .047 | 400 | 64B8-28 | BPD-05 | DF-503 | CUB4S47 | | GEM-4147 | 4TM-S47 | |
| C66 | .0047 | 600 | 64B8-15 | BPD-0047 | DD-472 | CUB6D47 | GP-4700 | GEM-6247 | 6TM-D47 | |
| C67 | .001 | 1600 | 64B2-28 | | | | | | | 10% |
| C68 | 1.0 | 100 | 64A10-3 | P288N-1.0 | | CUB2W1 | | GEM-21 | 2TM-M1 | |
| C69 | 5000 | | 65D10-5 | BPD-005 | DD-502 | BYA10D5 | ED-005 | DC525 | 5HK-D5 | |
| C70 | .22 | 600 | 64B8-5 | P688N-22 | | CUB6P22 | | GEM-6022 | 6TM-P22 | |
| C71 | 5000 | | 65D10-5 | BPD-005 | DD-502 | BYA10D5 | ED-005 | DC525 | 5HK-D5 | |
| C72 | 1000 | | 64B8-19 | BPD-001 | DD-102 | BYA6D1 | ED-001 | DC521 | 5HK-D1 | |
| C73 | .0047 | 600 | 64B8-15 | BPD-0047 | DD-472 | CUB6D47 | GP-4700 | GEM-6247 | 6TM-D47 | |
| C74 | .0047 | 600 | 64B8-15 | BPD-0047 | DD-472 | CUB6D47 | GP-4700 | GEM-6247 | 6TM-D47 | |
| C75 | .033 | 600 | 64B22-10 | | | | | | | 10% |
| C76 | .33 | 200 | 64B22-36 | | | | | GEM-2033 | | 10% |
| C77 | .056 | 400 | 64B22-44 | | | | | | | 10% |
| C78 | .0027 | 1600 | 64B2-37 | | | | | | | 10% |
| C79 | .12 | 600 | 64B22-43 | | | | | | | 10% |
| C80 | .0015 | 600 | 64B8-18 | BPD-0015 | DD-152 | CUB6D15 | GP-1500 | GEM-6215 | 6TM-D15 | |
| C81 | .001 | 400 | 64B2-24 | | | | | | | 10% |
| C82 | .001 | 400 | 64B2-24 | | | | | | | 10% |
| C83 | .0047 | 600 | 64B8-15 | BPD-0047 | DD-472 | CUB6D47 | GP-4700 | GEM-6247 | 6TM-D47 | |
| C84 | .001 | 600 | 64B8-19 | BPD-001 | DD-102 | CUB6D1 | GP-1000 | GEM-621 | 6TM-D1 | |
| C85 | 5000 | | 65D10-5 | BPD-005 | DD-502 | BYA10D5 | ED-005 | DC525 | 5HK-D5 | |
| C86 | .047 | 200 | 64B8-41 | BPD-05 | DF-503 | CUB2S47 | | GEM-4147 | 2TM-S47 | |
| C87 | 22 | | 65B21-220 | 1469-000022 | D6-220 | 22R5Q22 | | | MS-422 | 10% |
| C88 | 3900 | | 65B21-392 | 1464-0039 | | 1R5D39 | | | MS-239 | 10% |
| C89 | .1 | 600 | 64B8-7 | P688N-1 | DF-104 | CUB6P1 | | GEM-601 | 6TM-P1 | |
| C90 | 220 | | 65B20-221 | 1469-00022 | | 22R5T22 | | | MS-322 | 5% |
| C91 | .1 | 200 | 64B8-39 | P288N-1 | DF-104 | CUB2P1 | | GEM-201 | 2TM-P1 | |
| C92 | 470 | | 65B20-471 | 1464-00047 | | 5R5T47 | | | MS-347 | 5% |
| C93 | .01 | 600 | 64B8-13 | BPD-01 | DD-103 | CUB6S1 | GP-10000 | GEM-611 | 6TM-S1 | |
| C94 | .1 | 600 | 64B8-7 | P688N-1 | DF-104 | CUB6P1 | | GEM-601 | 6TM-P1 | |
| C95 | .22 | 600 | 64B8-5 | P688N-22 | | CUB6P22 | | GEM-6022 | 6TM-P22 | |
| C96 | 250 | 3000 | 65D10-114 | | | | | | | 5% N1500 |
| C97 | 250 | 3000 | 65D10-114 | | | | | | | 5% N1500 |
| C98 | 82 | 4000 | 65D10-98 | | | | | | | 5% NPO |
| C99 | .47 | 200 | 64B22-35 | | | | | GEM-2047 | | 10% |
| C100 | .47 | 200 | 64B22-35 | | | | | GEM-2047 | | 10% |
| C101 | .1 | 600 | 64B8-7 | P688N-1 | DF-104 | CUB6P1 | | GEM-601 | 6TM-P1 | |
| C102 | .15 | 400 | 64B8-25 | P488N-15 | | CUB6P15 | | GEM-4015 | 4TM-P15 | |
| C103 | 56 | 5000 | 65D10-126 | | | | | | | N1500 |
| C104 | .0033 | 600 | 64C25-17 | BPD-0033 | DD-332 | CUB6D33 | GP-3300 | GEM-6233 | 6TM-D33 | |
| C105 | .047 | 600 | 64B8-9 | BPD-05 | DF-503 | CUB6S47 | | GEM-6147 | 6TM-S47 | |
| C106 | .1 | 600 | 64B8-7 | P688N-1 | DF-104 | CUB6P1 | | GEM-601 | 6TM-P1 | |
| C107 | .1 | 600 | 64B8-7 | P688N-1 | DF-104 | CUB6P1 | | GEM-601 | 6TM-P1 | |
| C108 | 470 | | 65D10-70 | SI 470 | D6-471 | LT6T47 | GP-470 | UC-5347 | 5GA-T47 | |
| C109 | .001 | 400 | 64A2-24 | | | | | | | 10% |
| C110 | .0047 | 600 | 64B8-15 | BPD-0047 | DD-472 | CUB6D47 | GP-4700 | GEM-6247 | 6TM-D47 | |
| C111 | 5000 | | 65D10-5 | BPD-005 | DD-502 | BYA10D5 | ED-005 | DC525 | 5HK-D5 | |
| C112 | 100 | | | BPD-0001 | DD-101 | L10T1 | ED-100 | UC-531 | 5GA-T1 | |
| C113 | 82 | | | 1468-000082 | | 5W5Q82 | | | 1FM-482 | |
| C114 | 6.8 | | 65D6-82 | NPO-SI 6.8 | TCZ-6R8 | CTA6V68C | TCO-6.8 | ZT-5568 | 5TCCB-V68 | 10% |
| C115 | 43 | | 65D10-95 | | | | | | | 5% NPO |
| C116 | 10000 | | 65D10-3 | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C117 | 1200 | | | | DD-122 | L10D12 | ED-0012 | UC-5212 | 5GA-D12 | |
| C118 | 20000 | | 65D10-28 | BPD-02 | DD-203 | BYB6S2 | ED-02 | | 5HK-S2 | |
| C119 | 5000 | | 64B8-15 | BPD-005 | DD-502 | BYA10D5 | ED-005 | DC525 | 5HK-D5 | |
| C120 | 2400 | | 65B20-242 | 1464-0024 | | 1R5D24 | | | MS-224 | 5% |
| C121 | 10000 | | 65D10-3 | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C122 | 5000 | | 65D10-5 | BPD-005 | DD-502 | BYA10D5 | ED-005 | DC525 | 5HK-D5 | |
| C123 | 1.0 | 100 | 64A10-3 | P288N-1.0 | DF-104 | CUB2W1 | | GEM-21 | 2TM-M1 | |
| C124 | 22 | | 65D6-30 | | TCZ-22 | | | | | 2% NPO |
| C125 | 18 | | 65D10-104 | SI 18 | DD-180 | L10Q18 | ED-18 | UC-5418 | 5GA-Q18 | |
| C126 | 20000 | | 65D10-28 | BPD-02 | DD-203 | BYB6S2 | ED-02 | | 5HK-S2 | |
| C127 | 10000 | | 65D10-3 | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C128 | 10000 | | 65D10-3 | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C129 | 20000 | | 65D10-28 | BPD-02 | DD-203 | BYB6S2 | ED-02 | | 5HK-S2 | |
| C130 | 20000 | | 65D10-28 | BPD-02 | DD-203 | BYB6S2 | ED-02 | | 5HK-S2 | |
| C131 | 5000 | | 65D10-5 | BPD-005 | DD-502 | BYA10D5 | ED-005 | DC525 | 5HK-D5 | |
| C132 | .1 | 200 | 64B8-39 | P288N-1 | DF-104 | CUB2P1 | | GEM-201 | 2TM-P1 | |
| C133 | 2200 | | 65D10-89 | BPD-0022 | DD-222 | BYA10D22 | ED-0022 | UC-5222 | 5GA-D22 | |
| C134 | 3.5-28 | | 66B40-5 | | | | | | | |
| C135 | 2200 | | 65D10-89 | BPD-0022 | DD-222 | BYA10D22 | ED-0022 | UC-5222 | 5GA-D22 | |
| C136 | 20000 | | 65D10-28 | BPD-02 | DD-203 | BYB6S2 | ED-02 | | 5HK-S2 | |
| C137 | 2200 | | 65D10-89 | BPD-0022 | DD-222 | BYA10D22 | ED-0022 | UC-5222 | 5GA-D22 | |
| C138 | 10000 | | 65D10-3 | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C139 | 4700 | | 64B8-15 | BPD-0047 | DD-472 | BYA10D47 | ED-0047 | UC-5247 | 5HK-D47 | |
| C140 | .22 | 400 | 64B8-24 | P488N-22 | | CUB4P22 | | GEM-4022 | 4TM-P22 | |
| C141 | 2.0 | | 65D6-58 | | | | | | | 10% NPO |
| C142 | 220 | | 65B21-221 | | D6-221 | | ED-220 | | | 10% |
| C143 | 20000 | | 65D10-28 | BPD-02 | DD-202 | BYB6S2 | ED-02 | | 5HK-S2 | |
| C144 | .047 | 400 | 64B8-28 | BPD-05 | DF-503 | CUB4S47 | | GEM-4147 | 4TM-S47 | ♦ |
| C145 | 220 | | 65D10-83 | BPD-00022 | DD-221 | L10T22 | ED-220 | UC-5322 | 5GA-T22 | |
| C146 | 82 | | 65D10-98 | | TCZ-82 | C10Q82C | TCO-82 | | | 5% NPO |
| C147 | 22 | | 65D6-30 | | TCZ-22 | | | | | 2% NPO |
| C148 | 18 | | 65D10-104 | | DD-180 | L10Q18 | ED-18 | UC-5418 | 5GA-Q18 | |
| C149 | 20000 | | 65D10-28 | BPD-02 | DD-203 | BYB6S2 | ED-02 | | 5HK-S2 | |
| C150 | 47 | | 65D6-84 | NPO-SI 47 | TCZ-47 | C10Q47C | TCO-47 | | 5TCC-Q47 | 5% NPO |
| C151 | 10000 | | 65D10-3 | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C152 | .1 | 600 | 64B8-7 | P688N-1 | DF-104 | CUB6P1 | | GEM-601 | 6TM-P1 | |
| C153 | .01 | 1000 | 64B2-13 | P1088N-01 | DD-103 | CUB10S1 | | GEM-1011 | 10TM-S1 | |
| C154 | .01 | 1000 | 64B2-13 | P1088N-01 | DD-103 | CUB10S1 | | GEM-1011 | 10TM-S1 | |
| C155 | .01 | 1000 | 64B2-13 | P1088N-01 | DD-103 | CUB10S1 | | GEM-1011 | 10TM-S1 | |
| C156 | .39 | 200 | 64B22-42 | | | | | | | 10% |
| C157 | .39 | 200 | 64B22-42 | | | | | | | 10% |
| C158 | 47 | 200 | 64B22-35 | | | | | GEM-2047 | | 10% |
| C159 | .47 | 200 | 64B22-35 | P288N-47 | | CUB2P47 | | GEM-2047 | 2TM-P47 | |
| C160 | .047 | 600 | 64B8-9 | BPD-05 | DF-503 | CUB6S47 | | GEM-6147 | 6TM-S47 | |
| C161 | .047 | 600 | 64B8-9 | BPD-05 | DF-503 | CUB6S47 | | GEM-6147 | 6TM-S47 | |
| C162 | .047 | 600 | 64B2-36 | BPD-05 | DF-503 | CUB6S47 | | GEM-6147 | 6TM-S47 | |

| ITEM No. | RATING RESISTANCE | RATING WATTS | REPLACEM ADMIRAL PART No. | CENTRALAB PART No. | CLAR PART |
|---|---|---|---|---|---|
| R1A | 500K | 1/2 | 75B11-31 | F1-40 | |
| B | 1Meg | 1/2 | | R2-56 | |
| C | Switch | | | KB-1 | |
| R2A | 500Ω | 1/2 | 75D13-74 | B-4 | A47- |
| B | Shaft | | | Not Req. | KSS- |
| R3A | 500K | 1/2 | 75D13-73 | B-59 | A47- |
| B | Shaft | | | Not Req. | KSS- |
| R4A | 25K | 1/2 | 75D13-72 | B-26 | A47- |
| B | Shaft | | | Not Req. | KSS- |
| R5A | 2.5Meg | 1/2 | 75D13-80 | B-83 | A47- |
| B | Shaft | | | Not Req. | KSS- |
| R6A | 2000Ω | 1/2 | 75D13-70 | B-6 | A47- |
| B | Shaft | | | Not Req. | KSS- |
| R7 | 100Ω | 1/2 | 75C35-4 | | |
| R8 | 100Ω | 1/2 | 75C35-4 | | |
| R9 | 100Ω | 1/2 | 75C35-4 | | |
| R10A | 2.5Meg | 1/2 | 75C35-3 | F1-76 | |
| B | 5Meg | 1/2 | | R2-83 | |
| R11A | 100Ω | 1/2 | 75C35-2 | | |
| B | 100Ω | 1/2 | | | |
| R12A | 100Ω | 1/2 | 75C35-2 | | |
| B | 100Ω | 1/2 | | | |
| R13A | 100Ω | 1/2 | 75C35-2 | | |
| B | 100Ω | 1/2 | | | |
| R14A | 1Meg | 1/2 | 75C20-50 | B-69 | A47-1 |
| B | Shaft | | | Not Req. | KSS-3 |
| R15A | 1Meg | 1/2 | 75B17-19 | F1-51 | |
| B | 500K | 1/2 | | R2-40 | |
| R16A | 1Meg | 1/2 | 75B17-19 | F1-51 | |
| B | 500K | 1/2 | | R2-40 | |
| R17A | 40Ω | 2 (WW) | 75C20-49 | WW-400 | A43-4 |
| B | Shaft | | | Not Req. | KSS-3 |
| R18A | 50K | 1/2 | 75C20-34 | AB-31 | A47-5 |
| B | Shaft | | | AK-1 | FKS-1 |
| R19 | 200K | 1 | 75B33-1 | | |
| R20 | 100Ω | 1/2 | 75B33-2 | | |

♦ Concentrikit Equivalent K-4 Kit, Base Elements and Sh

Note 1. Alternate part #75C13-74 may be used in some ver
Note 2. Alternate part #75D20-50 may be used in some ve
Note 3. Alternate part #75D20-49 may be used in some ve
Note 4. Alternate part #75D20-34 may be used in some ve
Note 5. Alternate part #75C33-1 may be used in some ver
Note 6. Alternate part #75C33-2 may be used in some ver

## RES

All wattages 1/2 watt, or

| ITEM No. | RATING OHMS | RATING WATT | ADMIRAL PART No. | NOTES |
|---|---|---|---|---|
| R21 | 4700Ω | | 60B8-472 | |
| R22 | 2200Ω | | 60B8-222 | |
| R23 | 1000Ω | | 60B8-102 | |
| R24 | 3900Ω | | 60B8-392 | |
| R25 | 220K | | 60B8-224 | |
| R26 | 15K | | 60B8-153 | |
| R27 | 1000Ω | | 60B8-102 | |
| R28 | 10K | | 60B8-103 | |
| R29 | 6800Ω | | 60B8-682 | |
| R30 | 10K | | 60B8-103 | |
| R31 | 5000Ω | 5 | 61A17-9 | |
| R32 | 6800Ω | 2 | 60B20-682 | |
| R33 | 5600Ω | 2 | 60B20-562 | |
| R34 | 47K | | 60B8-473 | |
| R35 | 3.9Meg 5% | | 60B7-395 | |
| R36 | 15Meg | | 60B8-156 | |
| R37 | 1.5Meg 5% | | 60B7-155 | |
| R38 | 22K 5% | | 60B7-223 | |
| R39 | 1000Ω | | 60B8-102 | |
| R40 | 10K | | 60B8-103 | |
| R41 | 10Ω 5% | | 60B7-100 | |
| R42 | 39K 5% | | 60B7-393 | |
| R43 | 4700Ω | 2 | 60B20-472 | |
| R44 | 56Ω 5% | | 60B7-560 | |
| R45 | 1000Ω | | 60B8-102 | |
| R46 | 10Ω 5% | | 60B7-100 | |
| R47 | 4700Ω | 2 | 60B20-472 | |
| R48 | 56Ω 5% | | 60B7-560 | |
| R49 | 1000Ω | | 60B8-102 | |
| R50 | 82K | | 60B8-820 | |
| R51 | 68K 5% | | 60B7-683 | |
| R52 | 15Ω 5% | | 60B7-150 | |
| R53 | 3900Ω 5% | | 60B7-392 | |
| R54 | 4700Ω | 2 | 60B20-472 | |
| R55 | 62Ω 5% | | 60B7-620 | |
| R56 | 2700Ω | | 60B8-272 | |
| R57 | 2200Ω | | 60B8-222 | |
| R58 | 470Ω | | 60B8-471 | |
| R59 | 27K 5% | | 60B7-273 | |
| R60 | 47K | | 60B8-473 | |
| R61 | 4300Ω 5% | | 60B7-432 | |
| R62 | 47Ω | | 60B8-470 | |
| R63 | 47K | | 60B8-473 | |
| R64 | 3900Ω | 2 | 60B20-392 | |
| R65 | 2700Ω | 2 | 60B20-272 | |
| R66 | 47K | 2 | 60B20-473 | |
| R67 | 22K | 1 | 60B14-223 | |
| R68 | 220K | | 60B8-224 | |
| R69 | 56K | | 60B8-563 | |
| R70 | 15K | | 60B8-153 | |
| R71 | 10K | 2 | 60B20-103 | |
| R72 | 120Ω | | 60B8-121 | |
| R73 | 390Ω | | 60B8-391 | |
| R74 | 120K | | 60B8-124 | |
| R75 | 2.2Meg | | 60B8-225 | |
| R76 | 100K | | 60B8-104 | |
| R77 | 470Ω | | 60B8-471 | |
| R78 | 220K | | 60B8-224 | |
| R79 | 390K | | 60B8-394 | |

# PARTS LIST AND DESCRIPTIONS (Continued)

## CONTROLS

| ITEM No. | RATING | | REPLACEMENT DATA | | | | | INSTALLATION NOTES |
|---|---|---|---|---|---|---|---|---|
| | RESISTANCE | WATTS | ADMIRAL PART No. | CENTRALAB PART No. | CLAROSTAT PART No. | IRC PART No. | MALLORY PART No. | |
| R1A | 500K | 1/2 | 75B11-31 | F1-40 | | | UE1478-S | Brightness |
| B | 1Meg | 1/2 | | R2-56 | | •QJ-1063 | Not Req. | Volume-Tap ⓐ 500K |
| C | Switch | | | KB-1 | | | Not Req. | |
| R2A | 500Ω | 1/2 | 75D13-74 | B-4 | A47-500-S | Q11-103 | U2 | Contrast Tap ⓐ 75Ω - Note 1 |
| B | Shaft | | | Not Req. | KSS-3 | Not Req. | Not Req. | |
| R3A | 500K | 1/2 | 75D13-73 | B-59 | A47-500K-S | Q11-133 | U50 | Tone |
| B | Shaft | | | Not Req. | KSS-3 | Not Req. | Not Req. | |
| R4A | 25K | 1/2 | 75D13-72 | B-26 | A47-25K-S | Q11-120 | U29 | Horiz. Hold |
| B | Shaft | | | Not Req. | KSS-3 | Not Req. | Not Req. | |
| R5A | 2.5Meg | 1/2 | 75D13-80 | B-83 | A47-2.5Meg-S | Q11-239 | U255 | Vert. Hold |
| B | Shaft | | | Not Req. | KSS-3 | Not Req. | Not Req. | |
| R6A | 2000Ω | 1/2 | 75D13-70 | B-6 | A47-2000-S | Q11-110 | U6 | Color Intensity |
| B | Shaft | | | Not Req. | KSS-3 | Not Req. | Not Req. | |
| R7 | 100Ω | 1/2 | 75C35-4 | | | | | Red DC - Tap ⓐ 50Ω |
| R8 | 100Ω | 1/2 | 75C35-4 | | | | | Green DC - Tap ⓐ 50Ω |
| R9 | 100Ω | 1/2 | 75C35-4 | | | | | Blue DC - Tap ⓐ 50Ω |
| R10A | 2.5Meg | 1/2 | 75C35-3 | F1-76 | | | UE3002 | Vert. Lin. |
| B | 5Meg | 1/2 | | R2-83 | | | Not Req. | Vert. Size |
| R11A | 100Ω | 1/2 | 75C35-2 | | | | UE91 | Red Vert. Tilt |
| B | 100Ω | 1/2 | | | | | Not Req. | Red Vert. Amp. |
| R12A | 100Ω | 1/2 | 75C35-2 | | | | UE91 | Green Vert. Tilt |
| B | 100Ω | 1/2 | | | | | Not Req. | Green Vert. Amp. |
| R13A | 100Ω | 1/2 | 75C35-2 | | | | UE91 | Blue Vert. Tilt |
| B | 100Ω | 1/2 | | | | | Not Req. | Blue Vert. Amp. |
| R14A | 1Meg | 1/2 | 75C20-50 | B-69 | A47-1Meg-S | Q11-137 | TA16L | Red Screen - Note 2 |
| B | Shaft | | | Not Req. | KSS-3 | Not Req. | Not Req. | |
| R15A | 1Meg | 1/2 | 75B17-19 | F1-51 | | | UE1703 | Green Screen |
| B | 500K | 1/2 | | R2-40 | | | Not Req. | Green Grid |
| R16A | 1Meg | 1/2 | 75B17-19 | F1-51 | | | UE1703 | Blue Screen |
| B | 500K | 1/2 | | R2-40 | | | Not Req. | Blue Grid |
| R17A | 40Ω | 2 (WW) | 75C20-49 | WW-400 | A43-40 | WPS40 | R50L | Vert. Centering - Note 3 |
| B | Shaft | | | Not Req. | KSS-3 | Not Req. | Not Req. | |
| R18A | 50K | 1/2 | 75C20-34 | AB-31 | A47-50K-S | B11-123 | TA54L | Horiz. Drive - Note 4 |
| B | Shaft | | | AK-1 | FKS-1/4 | TM1-Kit | Not Req. | |
| R19 | 200K | 1 | 75B33-1 | | | | | Focus - Note 5 |
| R20 | 100Ω | 1/2 | 75B33-2 | | | | | Horiz. Centering - Note 6 |

• Concentrikit Equivalent K-4 Kit, Base Elements and Shafts B11-133, P1-123(Panel) B19-137X, R2-212 (Rear) 76-1 (Switch)

Note 1. Alternate part #75C13-74 may be used in some versions.
Note 2. Alternate part #75D20-50 may be used in some versions.
Note 3. Alternate part #75D20-49 may be used in some versions.
Note 4. Alternate part #75D20-34 may be used in some versions.
Note 5. Alternate part #75C33-1 may be used in some versions.
Note 6. Alternate part #75C33-2 may be used in some versions.

| ITEM No. | RATING | | ADMIRAL PART No. |
|---|---|---|---|
| | OHMS | WATT | |
| R139 | 100K | | 60B8-104 |
| R140 | 470K | | 60B8-474 |
| R141 | 33K | 2 | 60B20-333 |
| R142 | 18K | 2 | 60B20-183 |
| R143 | 8200Ω | | 60B8-822 |
| R144 | 6800Ω | | 60B8-682 |
| R145 | 1000Ω 5% | | 60B7-102 |
| R146 | 47K | | 60B8-473 |
| R147 | 1000Ω | 1 | 60B8-102 |
| R148 | 10K 5% | | 60B7-103 |
| R149 | 10K 5% | | 60B7-103 |
| R150 | 68K 5% | | 60B7-683 |
| R151 | 1200Ω | 2 | 60B20-122 |
| R152 | 1500Ω | 2 | 60B20-152 |
| R153 | 10K | 1 | 60B14-103 |
| R154 | 1000Ω | | 60B8-102 |
| R155 | 2500Ω | 10 | 60B20-8 |
| R156 | 470K | | 60B8-474 |
| R157 | 27K | 2 | 60B20-273 |
| R158 | 680K | | |
| R159 | 10K 5% | 2 | 60B19-103 |
| R160 | 470Ω | 1 | 60B14-471 |
| R161 | 15K | 2 | 60B20-153 |
| R162 | 470Ω | | 60B8-471 |
| R163 | 2700Ω | | 60B8-272 |
| R164 | 680Ω | 1 | 60B14-681 |
| R165 | 18K | 2 | 60B20-183 |
| R166 | 22K | 2 | 60B20-223 |
| R167 | 100K | | 60B8-104 |
| R168 | 2700Ω | | 60B8-272 |
| R169 | 3300Ω | 2 | 60B20-332 |
| R170 | 100K | | 60B8-104 |
| R171 | 2700Ω | | 60B8-272 |
| R172 | 82Ω | | 60B8-820 |
| R173 | 1000Ω | | 60B8-102 |
| R174 | 27K 5% | | 60B7-273 |
| R175 | 1000Ω | | 60B8-102 |
| R176 | 470Ω | | 60B8-471 |
| R177 | 4700Ω | 1 | 60B14-472 |

| ITEM No. | RATING | | |
|---|---|---|---|
| | PRI. | SEC. 1 | SEC. 2 |
| T1 | 117V ⓐ3.5A | 680VCT .460A | 5V ⓐ 6A |

① Alternate part #80C57-1 used

## RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

| ITEM No. | RATING | | ADMIRAL PART No. | NOTES |
|---|---|---|---|---|
| | OHMS | WATT | | |
| R21 | 4700Ω | | 60B8-472 | |
| R22 | 2200Ω | | 60B8-222 | |
| R23 | 1000Ω | | 60B8-102 | |
| R24 | 3900Ω | | 60B8-392 | |
| R25 | 220K | | 60B8-224 | |
| R26 | 15K | | 60B8-153 | |
| R27 | 1000Ω | | 60B8-102 | |
| R28 | 10K | | 60B8-103 | |
| R29 | 6800Ω | | 60B8-682 | |
| R30 | 10K | | 60B8-103 | |
| R31 | 5000Ω | 5 | 61A17-9 | |
| R32 | 6800Ω | 2 | 60B20-682 | |
| R33 | 5600Ω | 2 | 60B20-562 | |
| R34 | 47K | | 60B8-473 | |
| R35 | 3.9Meg 5% | | 60B7-395 | |
| R36 | 15Meg | | 60B8-156 | |
| R37 | 1.5Meg 5% | | 60B7-155 | |
| R38 | 22K 5% | | 60B7-223 | |
| R39 | 1000Ω | | 60B8-102 | |
| R40 | 10K | | 60B8-103 | |
| R41 | 10Ω 5% | | 60B7-100 | |
| R42 | 39K 5% | | 60B7-393 | |
| R43 | 4700Ω | 2 | 60B20-472 | |
| R44 | 56Ω 5% | | 60B7-560 | |
| R45 | 1000Ω | | 60B8-102 | |
| R46 | 10Ω 5% | | 60B7-100 | |
| R47 | 4700Ω | 2 | 60B20-472 | |
| R48 | 56Ω 5% | | 60B7-560 | |
| R49 | 1000Ω | | 60B8-102 | |
| R50 | 82K | | 60B8-820 | |
| R51 | 68K 5% | | 60B7-683 | |
| R52 | 15Ω 5% | | 60B7-150 | |
| R53 | 3900Ω 5% | | 60B7-392 | |
| R54 | 4700Ω | 2 | 60B20-472 | |
| R55 | 62Ω 5% | | 60B7-620 | |
| R56 | 2700Ω | | 60B8-272 | |
| R57 | 2200Ω | | 60B8-222 | |
| R58 | 470Ω | | 60B8-471 | |
| R59 | 27K 5% | | 60B7-273 | |
| R60 | 47K | | 60B8-473 | |
| R61 | 4300Ω 5% | | 60B7-432 | |
| R62 | 47Ω | | 60B8-470 | |
| R63 | 47K | | 60B8-473 | |
| R64 | 3900Ω | 2 | 60B20-392 | |
| R65 | 2700Ω | 2 | 60B20-272 | |
| R66 | 47K | 2 | 60B20-473 | |
| R67 | 22K | 1 | 60B14-223 | |
| R68 | 220K | | 60B8-224 | |
| R69 | 56K | | 60B8-563 | |
| R70 | 15K | | 60B8-153 | |
| R71 | 10K | 2 | 60B20-103 | |
| R72 | 120Ω | | 60B8-121 | |
| R73 | 390Ω | | 60B8-391 | |
| R74 | 120K | | 60B8-124 | |
| R75 | 2.2Meg | | 60B8-225 | |
| R76 | 100K | | 60B8-104 | |
| R77 | 470Ω | | 60B8-471 | |
| R78 | 220K | | 60B8-224 | |
| R79 | 390K | | 60B8-394 | |

| ITEM No. | RATING | | ADMIRAL PART No. | NOTES |
|---|---|---|---|---|
| | OHMS | WATT | | |
| R80 | 330Ω | 1 | 60B14-331 | |
| R81 | 2500Ω | 7 | 61B20-6 | |
| R82 | 2.2Meg | | 60B8-225 | |
| R83 | 3.3Meg | | 60B8-335 | |
| R84 | 56K | | 60B8-563 | |
| R85 | 330K | | 60B8-334 | |
| R86 | 27K | 2 | 60B20-273 | |
| R87 | 2.2Meg | | 60B8-225 | |
| R88 | 4.7Meg | | 60B8-475 | |
| R89 | 2700Ω | | 60B8-272 | |
| R90 | 10K | | 60B8-103 | |
| R91 | 120K | | 60B8-124 | |
| R92 | 2200Ω | | 60B8-222 | |
| R93 | 39K | | 60B8-393 | |
| R94 | 18K | | 60B8-183 | |
| R95 | 15K | | 60B8-153 | |
| R96 | 6.8Meg | | 60B8-685 | |
| R97 | 1Meg | | 60B8-105 | |
| R98 | 2.2Meg | | 60B8-225 | |
| R99 | 3.9Meg | | 60B8-395 | |
| R100 | 100K | | 60B8-104 | |
| R101 | 2.7Meg | 1 | 60B14-275 | |
| R102 | 100Ω | | 60B8-101 | |
| R103 | 470K | | 60B8-474 | |
| R104 | 22K | 1 | 60B14-223 | |
| R105 | 270K | | 60B8-274 | |
| R106 | 1200Ω 5% | | 60B7-122 | |
| R107 | 1200Ω 5% | | 60B7-122 | |
| R108 | 100K 5% | | 60B7-104 | |
| R109 | 100K 5% | | 60B7-104 | |
| R110 | 470K | | 60B8-474 | |
| R111 | 4.7Meg | | 60B8-475 | |
| R112 | 2200Ω | | 60B8-222 | |
| R113 | 5600Ω | | 60B8-562 | |
| R114 | 150K 5% | | 60B7-154 | |
| R115 | 10K 5% | | 60B7-103 | |
| R116 | 150K | | 60B8-154 | |
| R117 | 8200Ω 5% | | 60B7-822 | |
| R118 | 2000Ω 5% | | 60B7-202 | |
| R119 | 120Ω | | 60B8-121 | |
| R120 | 1Meg | | 60B8-105 | |
| R121 | 2200Ω | 2 | | |
| R122 | 12K | 10 | 61B20-3 | |
| R123 | 56Ω | | 60B8-560 | |
| R124 | 4700Ω | 1 | 60B14-472 | |
| R125 | 47Ω | | 60B8-470 | |
| R126 | 3.3Ω 5% | | 60B28-10 | |
| R127 | 10Meg | 2 | 60B20-106 | |
| R128 | 1Meg | 2 | 60B20-105 | |
| R129 | 1Meg | 2 | 60B20-105 | |
| R130 | 10Meg | 2 | 60B20-106 | |
| R131 | 10Meg | 2 | 60B20-106 | |
| R132 | 10K | | 60B8-103 | |
| R133 | 1.8Meg 5% | 1 | 60B13-185 | |
| R134 | 1.8Meg 5% | 1 | 60B13-185 | |
| R135 | 100Meg | 1 | 60B15-107 | |
| R136 | 8.2Ω 5% | 1 | 60B28-62 | |
| R137 | 330Ω | | 60B8-331 | |
| R138 | 12K | | 60B8-123 | |

| ITEM No. | USE | ADMIRAL PART |
|---|---|---|
| T2 | Vert. Output | 79C7 |
| T3A | Yoke-Horiz. (11.8MH) | 94D13 |
| B | Vert. (116MH) | |
| T4 | Horiz. Output | 79D6 |
| T5 | Horiz. Tuning Coil (.17-1MH) | 94B11 |
| T6 | Green Horiz. Conv. Amp. Coil (.3-1.8MH) | 94B13 |
| T7 | Blue Horiz. Conv. Amp. Coil (.3-1.8MH) | 94B13 |
| T8 | Red Horiz. Conv. Amp. Coil (.3-1.8MH) | 94B13 |
| T9 | Green Horiz. Conv. Tilt Coil (.13-.4MH) | 94B13 |
| T10 | Blue Horiz. Conv. Tilt Coil (.13-.4MH) | 94B13 |
| T11 | Red Horiz. Conv. Tilt Coil (.13-.4MH) | 94B13 |
| T12 | Conv. Yoke Assembly | 94B13 |

① Use red and blue terminals.
② Enlarge mounting hole.

| ITEM No. | IMPEDANCE | | ADMIRAL PART No. |
|---|---|---|---|
| | PRI. | SEC. | |
| T13 | 4800Ω | 6-8Ω | 79B66-7 ① |

| ITEM No. | TYPE | | |
|---|---|---|---|
| | SIZE | FIELD | V. C. IMP. |
| SP1 | 6" x 9" | PM | 3-4Ω |
| SP2 | 6" x 9" | PM | 3-4Ω |
| | 8" | PM | |
| | 8" | PM | |
| | 8" | PM | |
| | 8" | PM | |
| | 8" | PM | |
| | 3½" | PM | |
| | 3½" | PM | |

# CRIPTIONS (Continued)

## RCLS

| DATA AT | IRC PART No. | MALLORY PART No. | INSTALLATION NOTES |
|---|---|---|---|
| | | UE1478-S | Brightness |
| | ♦QJ-1063 | Not Req. | Volume-Tap ⓐ 500K |
| | | Not Req. | |
| S | Q11-103 | U2 | Contrast Tap ⓐ 75Ω - Note 1 |
| | Not Req. | Not Req. | |
| -S | Q11-133 | U50 | Tone |
| | Not Req. | Not Req. | |
| S | Q11-120 | U29 | Horiz. Hold |
| | Not Req. | Not Req. | |
| eg | Q11-239 | U255 | Vert. Hold |
| S | | | |
| | Not Req. | Not Req. | |
| -S | Q11-110 | U6 | Color Intensity |
| | Not Req. | Not Req. | |
| | | | Red DC - Tap ⓐ 50Ω |
| | | | Green DC - Tap ⓐ 50Ω |
| | | | Blue DC - Tap ⓐ 50Ω |
| | | UE3002 | Vert. Lin. |
| | | Not Req. | Vert. Size |
| | | UE91 | Red Vert. Tilt |
| | | Not Req. | Red Vert. Amp. |
| | | UE91 | Green Vert. Tilt |
| | | Not Req. | Green Vert. Amp. |
| | | UE91 | Blue Vert. Tilt |
| | | Not Req. | Blue Vert. Amp. |
| -S | Q11-137 | TA16L | Red Screen - Note 2 |
| | Not Req. | Not Req. | |
| | | UE1703 | Green Screen |
| | | Not Req. | Green Grid |
| | | UE1703 | Blue Screen |
| | | Not Req. | Blue Grid |
| | WPS40 | R50L | Vert. Centering - Note 3 |
| | Not Req. | Not Req. | |
| | B11-123 | TA54L | Horiz. Drive - Note 4 |
| | TM1-Kit | Not Req. | |
| | | | Focus - Note 5 |
| | | | Horiz. Centering - Note 6 |

B11-133, P1-123 (Panel)
819-137X, R2-212 (Rear)
76-1 (Switch)
s.
s.
s.
s.
.

## ORS

unless otherwise listed.

| ITEM No. | RATING OHMS | RATING WATT | ADMIRAL PART No. | NOTES |
|---|---|---|---|---|
| R80 | 330Ω | 1 | 60B14-331 | |
| R81 | 2500Ω | 7 | 61B20-6 | |
| R82 | 2.2Meg | | 60B8-225 | |
| R83 | 3.3Meg | | 60B8-335 | |
| R84 | 56K | | 60B8-563 | |
| R85 | 330K | | 60B8-334 | |
| R86 | 27K | 2 | 60B20-273 | |
| R87 | 2.2Meg | | 60B8-225 | |
| R88 | 4.7Meg | | 60B8-475 | |
| R89 | 2700Ω | | 60B8-272 | |
| R90 | 10K | | 60B8-103 | |
| R91 | 120K | | 60B8-124 | |
| R92 | 2200Ω | | 60B8-222 | |
| R93 | 39K | | 60B8-393 | |
| R94 | 18K | | 60B8-183 | |
| R95 | 15K | | 60B8-153 | |
| R96 | 6.8Meg | | 60B8-685 | |
| R97 | 1Meg | | 60B8-105 | |
| R98 | 2.2Meg | | 60B8-225 | |
| R99 | 3.9Meg | | 60B8-395 | |
| R100 | 100K | | 60B8-104 | |
| R101 | 2.7Meg | 1 | 60B14-275 | |
| R102 | 100Ω | | 60B8-101 | |
| R103 | 470K | | 60B8-474 | |
| R104 | 22K | 1 | 60B14-223 | |
| R105 | 270K | | 60B8-274 | |
| R106 | 1200Ω 5% | | 60B7-122 | |
| R107 | 1200Ω 5% | | 60B7-122 | |
| R108 | 100K 5% | | 60B7-104 | |
| R109 | 100K 5% | | 60B7-104 | |
| R110 | 470K | | 60B8-474 | |
| R111 | 4.7Meg | | 60B8-475 | |
| R112 | 2200Ω | | 60B8-222 | |
| R113 | 5600Ω | | 60B8-562 | |
| R114 | 150K 5% | | 60B7-154 | |
| R115 | 10K 5% | | 60B7-103 | |
| R116 | 150K | | 60B8-154 | |
| R117 | 8200Ω 5% | | 60B7-822 | |
| R118 | 2000Ω 5% | | 60B7-202 | |
| R119 | 120Ω | | 60B8-121 | |
| R120 | 1Meg | | 60B8-105 | |
| R121 | 2200Ω | 2 | | |
| R122 | 12K | 10 | 61B20-3 | |
| R123 | 56Ω | | 60B8-560 | |
| R124 | 4700Ω | 1 | 60B14-472 | |
| R125 | 47Ω | | 60B8-470 | |
| R126 | 3.3Ω 5% | | 60B28-10 | |
| R127 | 10Meg | 2 | 60B20-106 | |
| R128 | 1Meg | 2 | 60B20-105 | |
| R129 | 1Meg | 2 | 60B20-105 | |
| R130 | 10Meg | 2 | 60B20-106 | |
| R131 | 10Meg | 2 | 60B20-106 | |
| R132 | 10K | | 60B8-103 | |
| R133 | 1.8Meg 5% | 1 | 60B13-185 | |
| R134 | 1.8Meg 5% | 1 | 60B13-185 | |
| R135 | 100Meg | 1 | 60B15-107 | |
| R136 | 8.2Ω 5% | 1 | 60B28-62 | |
| R137 | 330Ω | | 60B8-331 | |
| R138 | 12K | | 60B8-123 | |

## RESISTORS (cont)

| ITEM No. | RATING OHMS | RATING WATT | ADMIRAL PART No. | NOTES |
|---|---|---|---|---|
| R139 | 100K | | 60B8-104 | |
| R140 | 470K | | 60B8-474 | |
| R141 | 33K | 2 | 60B20-333 | |
| R142 | 18K | 2 | 60B20-183 | |
| R143 | 8200Ω | | 60B8-822 | |
| R144 | 6800Ω | | 60B8-682 | |
| R145 | 1000Ω 5% | | 60B7-102 | |
| R146 | 47K | | 60B8-473 | |
| R147 | 1000Ω | 1 | 60B8-102 | |
| R148 | 10K 5% | | 60B7-103 | |
| R149 | 10K 5% | | 60B7-103 | |
| R150 | 68K 5% | | 60B7-683 | |
| R151 | 1200Ω | 2 | 60B20-122 | |
| R152 | 1500Ω | 2 | 60B20-152 | |
| R153 | 10K | 1 | 60B14-103 | |
| R154 | 1000Ω | | 60B8-102 | |
| R155 | 2500Ω | 10 | 60B20-8 | |
| R156 | 470K | | 60B8-474 | |
| R157 | 27K | 2 | 60B20-273 | |
| R158 | 680K | | | |
| R159 | 10K 5% | 2 | 60B19-103 | |
| R160 | 470Ω | 1 | 60B14-471 | |
| R161 | 15K | 2 | 60B20-153 | |
| R162 | 470Ω | | 60B8-471 | |
| R163 | 2700Ω | | 60B8-272 | |
| R164 | 680Ω | 1 | 60B14-681 | |
| R165 | 18K | 2 | 60B20-183 | |
| R166 | 22K | 2 | 60B20-223 | |
| R167 | 100K | | 60B8-104 | |
| R168 | 2700Ω | | 60B8-272 | |
| R169 | 3300Ω | 2 | 60B20-332 | |
| R170 | 100K | | 60B8-104 | |
| R171 | 2700Ω | | 60B8-272 | |
| R172 | 82Ω | | 60B8-820 | |
| R173 | 1000Ω | | 60B8-102 | |
| R174 | 27K 5% | | 60B7-273 | |
| R175 | 1000Ω | | 60B8-102 | |
| R176 | 470Ω | | 60B8-471 | |
| R177 | 4700Ω | 1 | 60B14-472 | |

| ITEM No. | RATING OHMS | RATING WATT | ADMIRAL PART No. | NOTES |
|---|---|---|---|---|
| R178 | 12Meg | | 60B8-126 | |
| R179 | 10Meg | | 60B8-106 | |
| R180 | 1Meg 5% | | 60B7-105 | |
| R181 | 68K | | 60B8-683 | |
| R182 | 1Meg | | 60B8-105 | |
| R183 | 22K | | 60B8-223 | |
| R184 | 1Meg 5% | | 60B7-105 | |
| R185 | 100Ω | | 60B8-101 | |
| R186 | 2200Ω | | 60B8-222 | |
| R187 | 150K | | 60B8-154 | |
| R188 | 390K | | 60B8-394 | |
| R189 | 100K | | 60B8-104 | |
| R190 | 3300Ω | 2 | 60B20-332 | |
| R191 | 33K | | 60B8-333 | |
| R192 | 2700Ω | | 60B8-272 | |
| R193 | 18K | 2 | 60B20-183 | |
| R194 | 100K | | 60B8-104 | |
| R195 | 2700Ω | | 60B8-272 | |
| R196 | 330K | | 60B8-334 | |
| R197 | 100K | | 60B8-104 | |
| R198 | 82K | | 60B8-823 | |
| R199 | 56K | | 60B8-563 | |
| R200 | 82K | | 60B8-823 | |
| R201 | 180K | | 60B8-184 | |
| R202 | 100K | | 60B8-104 | |
| R203 | 100K | | 60B8-104 | |
| R204 | 100K | | 60B8-104 | |
| R205 | 220K | | 60B8-224 | |
| R206 | 560K | | 60B8-564 | |
| R207 | 33Ω | 2 | 60B20-330 | |
| R208 | 33Ω | 2 | 60B20-330 | |
| R209 | 22Ω | 2 | 60B20-220 | |
| R210 | 68Ω | | 60B8-680 | |
| R211 | 2500Ω | 7 | 61B20-6 | |
| R212 | 800Ω | 10 | 61B20-7 | |
| R213 | 430Ω | 20 | 61A1-42 | |
| R214 | 100K | | 60B8-104 | |
| R215 | 470K | | 60B8-474 | |

## TRANSFORMER (POWER)

| ITEM No. | RATING PRI. | RATING SEC. 1 | RATING SEC. 2 | RATING SEC. 3 | REPLACEMENT DATA ADMIRAL PART No. | Halldorson PART No. | Merit PART No. | Stancor PART No. | Thordarson PART No. | Triad PART No. |
|---|---|---|---|---|---|---|---|---|---|---|
| T1 | 117V ⓐ3.5A | 680VCT .460A | 5V ⓐ 6A | 6.3V ⓐ12.2A<br>SEC. 4<br>6.3V ⓐ 2.2A | 80C53-1 ① | | | | | |

① Alternate part #80C57-1 used in Chassis stamped Run 18 and higher.

## TRANSFORMERS (SWEEP CIRCUITS)

| ITEM No. | USE | REPLACEMENT DATA ADMIRAL PART No. | Halldorson PART No. | Merit PART No. | Ram PART No. | Stancor PART No. | Thordarson PART No. | Triad PART No. | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| T2 | Vert. Output | 79C72-1 | | | | | | | |
| T3A<br>B | Yoke-Horiz. (11.8MH)<br>Vert. (116MH) | 94D132-1 | | | | | | | |
| T4 | Horiz. Output | 79D69-2 | | | | | | | |
| T5 | Horiz. Tuning Coil (.17-1MH) | 94B114-3 | | | | | | | |
| T6 | Green Horiz. Conv. Amp. Coil (.3-1.8MH) | 94B133-2 | RF803 | MWC-10① | 206R1 | WC-7 | WC-23 ② | WLC-8A | |
| T7 | Blue Horiz. Conv. Amp. Coil (.3-1.8MH) | 94B133-2 | RF803 | MWC-10 ① | 206R1 | WC-7 | WC-23 ② | WLC-8A | |
| T8 | Red Horiz. Conv. Amp. Coil (.3-1.8MH) | 94B133-2 | RF803 | MWC-10 ① | 206R1 | WC-7 | WC-23 ② | WLC-8A | |
| T9 | Green Horiz. Conv. Tilt Coil (.13-.4MH) | 94B133-1 | RF801 | MWC-8 | 201R4 | WC-4 | WC-15 | WLC-4 | |
| T10 | Blue Horiz. Conv. Tilt Coil (.13-.4MH) | 94B133-1 | RF801 | MWC-8 | 201R4 | WC-4 | WC-15 | WLC-4 | |
| T11 | Red Horiz. Conv. Tilt Coil (.13-.4MH) | 94B133-1 | RF801 | MWC-8 | 201R4 | WC-4 | WC-15 | WLC-4 | |
| T12 | Conv. Yoke Assembly | 94B134-1 | | | | | | | |

① Use red and blue terminals.
② Enlarge mounting hole.

## TRANSFORMER (AUDIO OUTPUT)

| ITEM No. | IMPEDANCE PRI. | IMPEDANCE SEC. | REPLACEMENT DATA ADMIRAL PART No. | Halldorson PART No. | Merit PART No. | Stancor PART No. | Thordarson PART No. | Triad PART No. | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| T13 | 4800Ω | 6-8Ω | 79B66-7 ① | Z1109 | A-2902② | A-3870 ③ | 22S58 | S-55X | ① Alternate part #79B66-9. Used in Ch. 29Z1B, 29SZ1B.<br>② Drill one new mounting hole.<br>③ Tape center tap on primary. |

## SPEAKER

| ITEM No. | TYPE SIZE | TYPE FIELD | TYPE V. C. IMP. | REPLACEMENT DATA ADMIRAL PART No. | QUAM PART No. | NOTES |
|---|---|---|---|---|---|---|
| SP1 | 6"x 9" | PM | 3-4Ω | 78C107-5①②③ | 69A2 ① | ① Connect in series and phase. |
| SP2 | 6" x 9" | PM | 3-4Ω | 78C107-4①② | 69A2 ① | ② Used in Models C322C26, 27, CS322C26, 27 |
| | 8" | PM | | 78D119-4 ④ | | ③ Includes T13 |
| | 8" | PM | | 78D118-6 ⑤ | | ④ Used in Models C322C2, 3, CS322C2, 3 |
| | 8" | PM | | 78D118-5 ⑤③ | | ⑤ Used in Models C322C16, 17, CS322C16, 17 |
| | 8" | PM | | 78D127-2 ⑥ | | ⑥ Used in Models LC322C36, 37, LCS322C36, 37, LC322C39, LCS322C39 |
| | 8" | PM | | 78D127-1 ⑥③ | | ⑦ Includes leads. |
| | 3½" | PM | | 78B91-4 ⑥⑦ | | ⑧ Includes lugs. |
| | 3½" | PM | | 78B91-5 ⑥⑧ | | |

# PARTS LIST AND DESCRIPTIONS (Continued)

## COILS (RF-IF)

| ITEM No. | USE | ADMIRAL PART No. | NOTES |
|---|---|---|---|
| L1 | Ant. Trans. | 94D131-68 | Complete Assy. |
| L2 | IF Trap | 94D131-64 | |
| L3 | IF Trap | 94D131-51 | |
| L4A | Ant., RF, Mixer Grid & Osc. Coils | 94D131-52 | Channel 2 |
| B | " | 94D131-53 | Channel 3 |
| C | " | 94D131-54 | Channel 4 |
| D | " | 94D131-55 | Channel 5 |
| E | " | 94D131-56 | Channel 6 |
| F | " | 94D131-57 | Channel 7 |

| ITEM No. | USE | ADMIRAL PART No. | NOTES |
|---|---|---|---|
| L4G | Ant., RF, Mixer Grid & Osc. Coils | 94D131-58 | Channel 8 |
| H | " | 94D131-59 | Channel 9 |
| I | " | 94D131-60 | Channel 10 |
| J | " | 94D131-61 | Channel 11 |
| K | " | 94D131-62 | Channel 12 |
| L | " | 94D131-63 | Channel 13 |
| L5 | Mixer Screen Coil | 94D131-65 | |
| L6 | RF Choke | 94D131-67 | |
| L7 | Mixer Plate Coil | 94D131-66 | |

| ITEM No. | USE | REPLACEMENT DATA ADMIRAL PART No. | MEISSNER PART No. | MERIT PART No. | MILLER PART No. | NOTES |
|---|---|---|---|---|---|---|
| L8 | 1st. Video IF | 72D161-1 | | | | |
| L9A | 41.25MC Trap | 72B164-1 | | | | |
| B | 47.25MC Trap | | | | | |
| L10 | Fil. Choke | 73A2-5 | 19-3001 | TV-189 | 6175 | .6 Microhenry |
| L11 | 2nd. Video IF | 72D111-40 | 17-4523 | TV-130 | 6219 | |
| L12 | Fil. Choke | 73A2-5 | 19-3001 | TV-189 | 6175 | .6 Microhenry |
| L13 | 3rd. Video IF | 72B154-1 | | | | |
| L14 | Fil. Choke | 73A2-5 | 19-3001 | TV-189 | 6175 | .6 Microhenry |
| L15 | 4th. Video IF | 72D111-39 | 17-4522 | TV-130 | 6219 | |
| L16 | RF Choke | 73B24-3 | 19-6022 | TV-192 | 6152 | 20 Microhenries |
| L17 | RF Choke | 73B24-3 | 19-6022 | TV-192 | 6152 | 20 Microhenries |
| L18 | 41.25MC Trap | 72B166-1 | | | | |
| L19 | 5th. Video IF | 72B159 | | | | Includes Det. Assy. |
| L20 | Resonant Choke | 73B24-1 | | | | 43.5MC, 7.7 Microhenries |
| L21 | Series Peaking | 73B25-5 | 19-4400 * | TV-190 * | 6134 * | 380 Microhenries, wound on 6800Ω resistor |
| L22 | Series Peaking Coil | 73B5-31 | 19-3125 | TV-195 | 6153 | 130 Microhenries |
| L23 | 3.58MC Trap | 72D165-5 | | | | |
| L24 | Shunt Peaking Coil | | 19-3300 | TV-185 | 6130 | 280 Microhenries |
| L25 | Series Peaking Coil | 73B5-27 | 19-3125 | TV-195 | 6112 | 113 Microhenries |
| L26 | Video Amp. Plate Coil | 72B167-1 | | | | |
| L27 | Shunt Peaking Coil | 73B25-7 | | TV-207 ▲ | 6156 ▲ | 850 Microhenries, wound on 10K resistor |
| L28 | Series Peaking Coil | 73B5-27 | | | 6112 | 113 Microhenries |
| L29 | Sound IF | 72B157-1 | | | | |
| L30 | Ratio Det. | 72C68-2 | 17-1033 ♦ | TV-110 ♦ | 1468 ♦ | |
| L31 | 4.5MC Trap | 72D165-2 | | TV-119 | 1470 | |
| L32 | Chroma Grid Coil | 72D165-7 | | | | |
| L33 | Resonant Choke | 73B24-6 | | TV-205 | | 6MC, 625 Microhenries |
| L34 | Chroma Plate Trans. | 72B155-1 | | | | |
| L35 | Chroma Plate Coil | 72B163-1 | | | | |
| L36 | Resonant Choke | 73B24-5 | | | | 3.58MC, 1205 Microhenries |
| L37 | Burst Amp. Plate Coil | 72B181-1 | | | | |
| L38 | Series Peaking Coil | | 19-3036 | TV-180 | 6176 | 39 Microhenries |
| L39 | Chroma Ref. Osc. Control Plate Coil | 72B156-1 | | | | |
| L40 | Demodulator Driver Trans. | 72B178-1 | | | | |
| L41 | Phase Shift Coil | 72B158-1 | | | | |
| L42 | Resonant Choke | 73B24-5 | | | | 3.58MC, 1205 Microhenries |
| L43 | Resonant Choke | 73B24-5 | | | | 3.58MC, 1205 Microhenries |
| L44 | RF Choke | 73B33-1 | 19-1005 | BC-566 | 4622 | 12 Microhenries |
| L45 | RF Choke | 73B33-1 | 19-1005 | BC-566 | 4622 | 12 Microhenries |

♦ Remove C-60 shunting secondary winding.
* Parallel with 6800Ω resistor.
▲ Parallel with 10K resistor.

## TRANSFORMER (HORIZ. OSC.)

| ITEM No. | DC RES. PRI. | DC RES. SEC. | REPLACEMENT DATA ADMIRAL PART No. | Meissner PART No. | Merit PART No. | Miller PART No. | Ram PART No. | Thordarson PART No. | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| L46 | 44Ω | | 94C17-12 | 19-1576 | TV-163 | 6210 | H-102 | HS-5 | 24.5 - 50 Millihenries |

## FILTER CHOKE

| ITEM No. | RATINGS TOTAL DIRECT CURRENT | RATINGS D. C. RESISTANCE | RATINGS INDUCTANCE (0 CURRENT 1000 ∿) | REPLACEMENT DATA ADMIRAL PART No. | Halldorson PART No. | Merit PART No. | Stancor PART No. | Thordarson PART No. | Triad PART No. |
|---|---|---|---|---|---|---|---|---|---|
| L47 | .460A | 17Ω | .6 HY. | 74B18-20 | | | | | C-40X |

## COMPONENT COMBINATIONS

| ITEM No. | USE | DESCRIPTION | ADMIRAL PART No. | REPLACEMENT DATA |
|---|---|---|---|---|
| K1 | Sound Couplate | 390MMF, 2200MMF, 5000 MMF, 47K, 10K, 10K | 63C 6-15 | Centralab PC-304 |
| K2 | Sync Couplate | 150MMF, 10000MMF, 270K | 63C 6-8 | Centralab PC-184<br>Sprague 101C11 |

## RECTIFIERS

| ITEM No. | RATING CURRENT (Measured) | REPLACEMENT DATA ADMIRAL PART No. | FEDERAL PART No. | GENERAL ELECTRIC PART No. | INTERNATIONAL PART No. | SARKES TARZIAN PART No. | NOTES |
|---|---|---|---|---|---|---|---|
| M1 | | 93A5-2 ① | 1215 ①② | | 1T1 ①② | | ① Selenium Type<br>② 2 Required |

# PARTS LIST AND DESCRIPTIONS (Continued)

## FUSES

| ITEM No. | TYPE | RATING | REPLACEMENT DATA | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | ADMIRAL PART No. | | LITTELFUSE PART No. | | BUSS PART No. | |
| | | | FUSE | HOLDER | FUSE | HOLDER | FUSE | HOLDER |
| M2 | 3/4" No. 27 Wire | | | | | | | |
| M3 | 3/4" No. 27 Wire | | | | | | | |
| M4 | C | 2A 250V | 84A13-14 | 84A12-6 | 332002. (C2A250V) | 364006 | C2 | HC 1 3/4 to 2 1/2 |
| M5 | C | 3/4A 250V | 84A13-9 | 84A12-2 | 332.750 (C 3/4A 250V) | 346003 | C 3/4 | HC 1/2 to 3/4 |
| M6 | C | 3/10A 250V | 84A13-6 | 84A12-4 | 332.300 (C 3/10A 250V) | 346001 | C 3/10 | HC 0 to 3/10 |

## CRYSTAL DIODES

| ITEM No. | ORIG. TYPE | REPLACEMENT DATA | | | NOTES |
|---|---|---|---|---|---|
| | | ADMIRAL PART No. | CBS PART No. | SYLVANIA PART No. | |
| M7 | 1N60 | 93A8 | 1N60 | 1N60 | Video Detector (Pigtail) |
| M8 | 1N295 | 93A8 | 1N60 | 1N60 | Sound & Chroma Detector (Pigtail) |

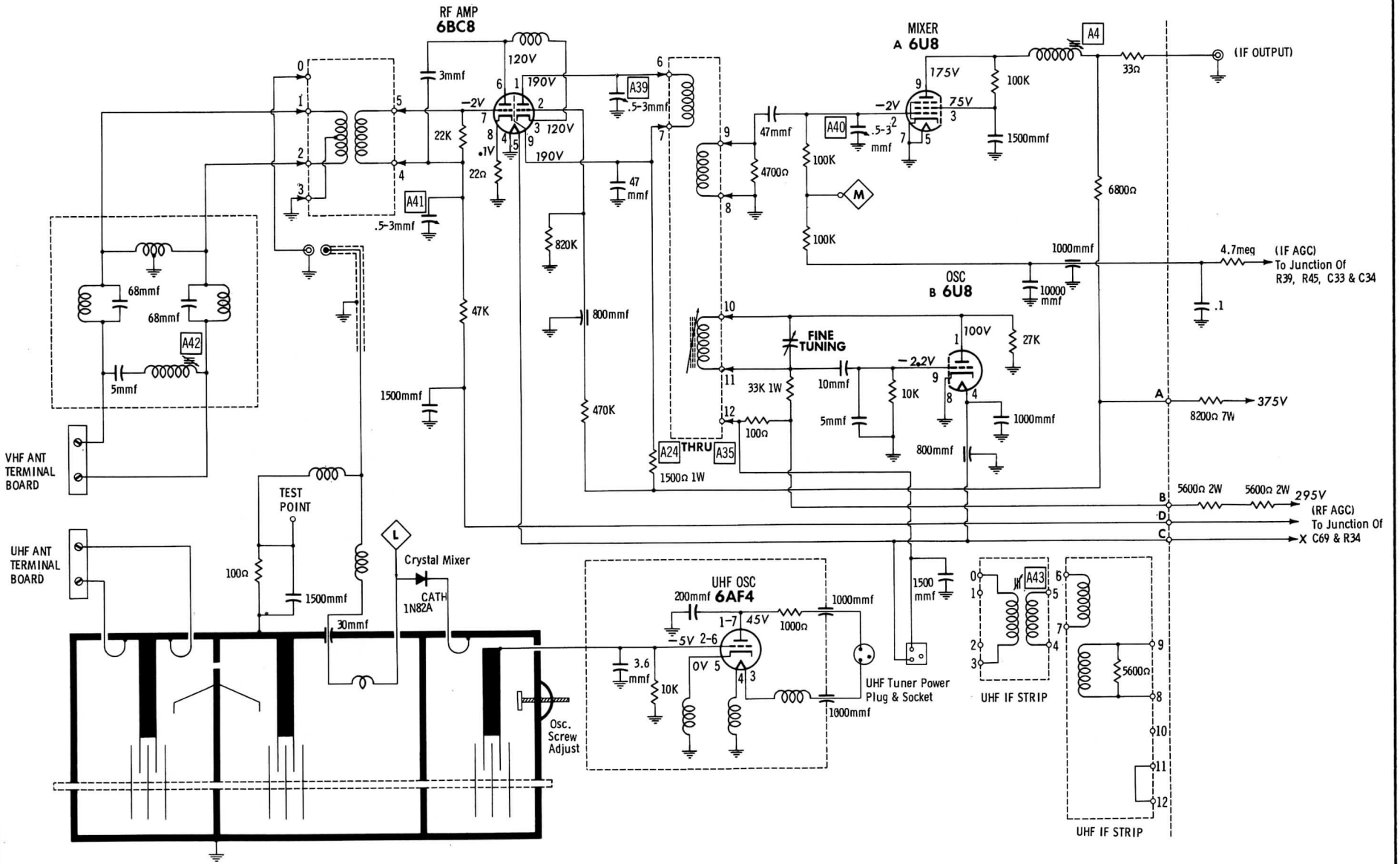
## MISCELLANEOUS

| ITEM No. | PART NAME | ADMIRAL PART No. | NOTES |
|---|---|---|---|
| M9 | Crystal | 93B3-4 | 3.579545MC Oscillator (Plug-in) |
| | Crystal | 93B3-3 | 3.579545MC Oscillator (Pigtail) |
| M10 | Pilot Light | 81A1-12 | Type #47 - Not used in Table Models |
| M11 | Tuner | 94D131-2 | VHF - Used in Chassis stamped Run 17 or higher |
| | Tuner | 94D131-1 | VHF - Used in Chassis stamped Run 1 thru Run 16 |
| | Tuner | 94D107-1 | UHF/VHF - Used in Chassis stamped Run 1 thru Run 17 |
| | Tuner | 94E107-1 | UHF/VHF - Used in Chassis stamped Run 18 or higher |
| | Tuner | 94E144-8 | VHF - Used in Chassis 29AZ1, Run 21 |
| | Tuner | 94D112-3 | UHF - Used in Chassis 29AZ1, Run 21 |
| M12 | Delay Line | 72B168-1 | |
| M13 | Magnet | 94A104 | Purity |
| M14 | Magnet | 94A136 | Blue Beam Lateral |
| M15 | Magnet | 94B135 | Rim (6 used) |

## CABINETS & CABINET PARTS

**(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)**

| NAME | PART NO. | DESCRIPTION |
|---|---|---|
| Safety Glass | 21C86-2 | |
| Mask | 23E237-3 | Models C322C26, CS322C26 |
| Mask | 23E237-7 | Models C322C2, CS322C2 |
| Mask | 23E237-8 | Models C322C3, CS322C3 |
| Mask | 23E237-5 | Models C322C16, CS322C16, LC322C36, LCS322C36 |
| Mask | 23E237-6 | Models C322C17, CS322C17, LC322C37, 39, LCS322C37, 39 |
| Mask | 23E237-4 | Models C322C27, CS322C27 |
| Knob | 33D199-22 | VHF Channel Selector - Models C322C16, 26, CS322C16, 26, LC322C36, LCS322C36 |
| Knob | 33D199-16 | VHF Channel Selector - Models C322C2, CS322C2 |
| Knob | 33D199-1 | VHF Channel Selector - Models C322C3, CS322C3 |
| Knob | 33D199-10 | VHF Channel Selector - Models C322C17, 27, CS322C17, 27, LC322C37, 39, LCS322C37, 39 |
| Knob | 33D199-24 | UHF/VHF Channel Selector - Models C322C16, 26, CS322C16, 26, LC322C36, LCS322C36 |
| Knob | 33D199-18 | UHF/VHF Channel Selector - Models C322C2, CS322C2 |
| Knob | 33D199-3 | UHF/VHF Channel Selector - Models C322C3, CS322C3 |
| Knob | 33D199-12 | UHF/VHF Channel Selector - Models C322C17, 27, CS322C17, 27, LC322C37, 39, LCS322C37, 39 |
| Knob | 33D165-138 | Vernier - All VHF Models |
| Knob | A5332 | Spin Tuning - All UHF/VHF Models) |
| Knob | 33D199-9 | UHF Channel Indicator |
| Knob | 33D199-23 | On-off-volume - Models C322C16, 26, CS322C16, 26, LC322C36, LC322C36 |
| Knob | 33D199-17 | On-off-volume - Models C322C2, CS322C2 |
| Knob | 33D199-2 | On-off-volume - Models C322C3, CS322C3 |
| Knob | 33D199-11 | On-off-volume - Models C322C17, 27, CS322C17, 27, LC322C37, 39, LCS322C37, 39 |
| Knob | 33D165-139 | Contrast |
| Knob | 33C81-19 | Bass & Treble - Models LC322C36, 37, 39, LCS322C36, 37, 39 |
| Cabinet | 35E386-1 | Models C322C26, CS322C26 |
| Cabinet | 35E384-3 | Models C322C2, CS322C2 |
| Cabinet | 35E384-1 | Models C322C16, CS322C16 |
| Cabinet | 35E388-1 | Models LC322C36, LCS322C36 |
| Cabinet | 35E384-4 | Models C322C3, CS322C3 |
| Cabinet | 35E384-2 | Models C322C17, CS322C17 |
| Cabinet | 35E386-2 | Models C322C27, CS322C27 |
| Cabinet | 35E388-2 | Models LC322C37, LCS322C37 |
| Cabinet | 35E388-3 | Models LC322C39, LCS322C39 |

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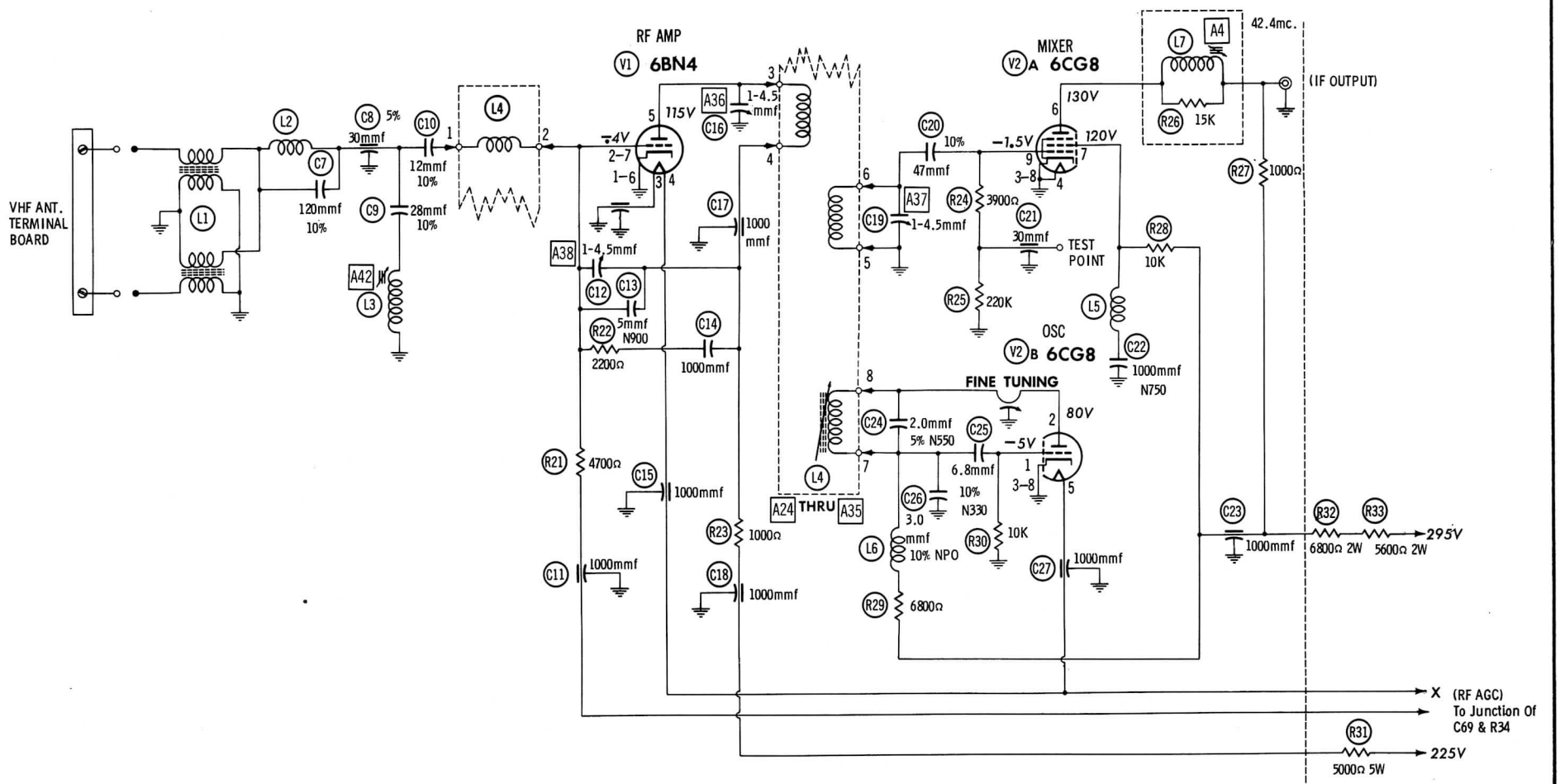
UHF-VHF Tuner Part #94E107-1

# ALTERNATE TUNER SCHEMATIC

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VHF Tuner Part #94D131-1, -2.

## TUNER SCHEMATIC