

CENTERING

C7

WIDTH
SLEEVE

FOCUS
STRAP

CABINET—REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the set on and tune in a TV station. Adjust the horizontal hold control until the picture synchronizes horizontally. If the picture cannot be

synchronized or the frequency drifts as the set warms up, replace V20 (12AU7A).

PHOTOFACT* Folder



SETCHELL-CARLSON MODELS 571, 572, 573, 5701, -T, 5702, -T, 5703 (Ch. 157 RP)

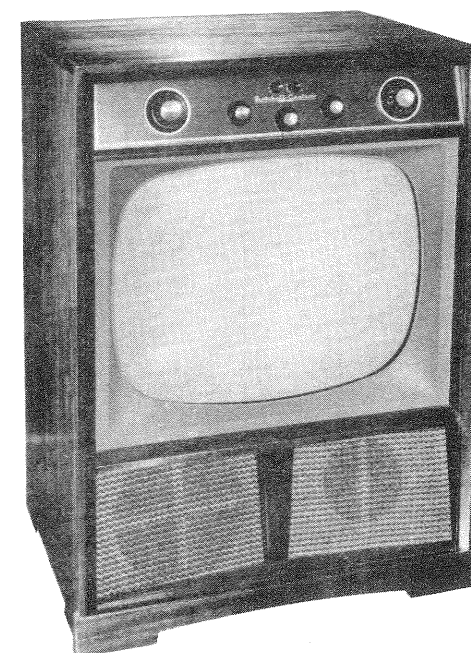
DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove 9 push-on type knobs from the front.
2. Remove 8 wood screws and the rear cover.
3. Remove 2 wood screws and the antenna terminal board.
4. Remove speaker plug, yoke plug, picture tube socket and HV lead.
5. Remove 2 chassis bolts.
6. Remove chassis.
7. Remove 8 speaker nuts and 2 speakers.

PICTURE TUBE REMOVAL

1. Remove safety glass and mask as outlined in "Picture Tube & Safety Glass Cleaning."
2. Remove 4 bolts holding tube clamp to the chassis.
3. Remove picture tube, yoke, etc., from the front of the cabinet.



MODELS

CHASSIS

571, 572, 573, 5701, 5701-T, 5702, 5702-T, 5703 157RP

SERVICING IN THE FIELD

TUNER OSCILLATOR ADJUSTMENTS

Touch-up adjustment of the VHF oscillator is possible by removing the channel selector and fine tuning knobs. Set the fine tuning at the center of its range. The adjustments are accessible, one at a time, as the channel selector is rotated. Adjust for best picture and sound.

PICTURE TUBE SAFETY GLASS CLEANING

Remove 3 wood screws holding wood strip at top of the glass. Remove the strip and safety glass.

SPECIAL ADJUSTMENTS

A. Focus

The focus may be varied by the position of a strap on the base of the picture tube. The strap can be connected between pins 6 and 10, or 6 and 2. Readjust the Ion trap for the best focus consistent with maximum brightness.

B. Width

The width may be varied by means of a brass sleeve located

between the yoke and the picture tube neck. Adjust sleeve in or out of the yoke for a picture SLIGHTLY larger than necessary to fill the screen.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

Adjust the horizontal hold until the picture synchronizes horizontally.

SOUND IF DETECTOR BUZZ ADJUSTMENT

To eliminate sound IF detector buzz, adjust the ratio detector secondary (A18) located on top of chassis.

FUSES

One fuse is used for LV power supply protection. (For location see tube placement chart).

CENTERING

Centering is accomplished mechanically by adjusting the two magnetic rings around the neck of the picture tube. Rotate the two rings around the neck of the tube until the picture is properly centered.

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

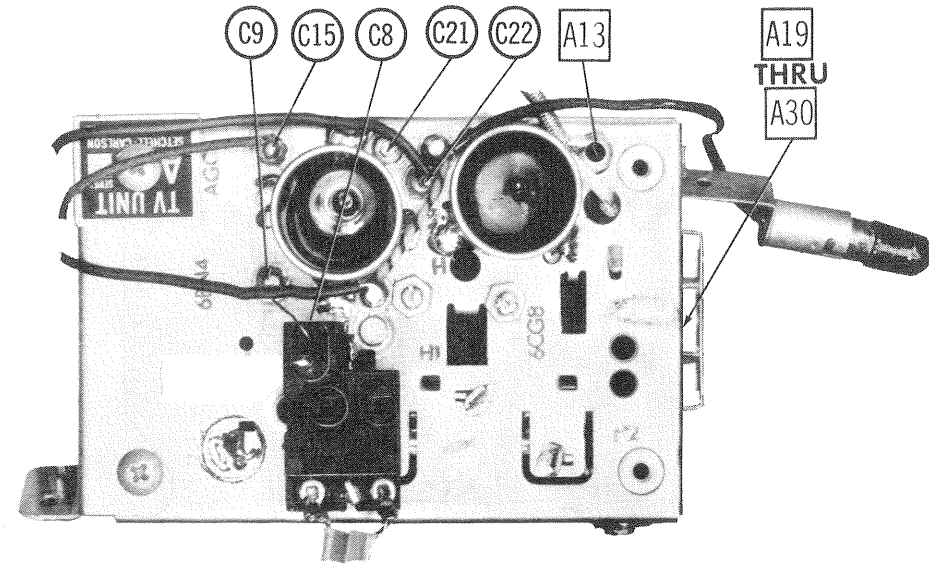
"The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed." "Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. Copyright 1957 by Howard W. Sams & Co., Inc., Indianapolis 5, Indiana, U. S. of America. Copyright under international Copyright Union. All rights reserved under Inter-American Copyright Union (1910) by Howard W. Sams & Co., Inc." Printed in U. S. of America

DATE 6-57

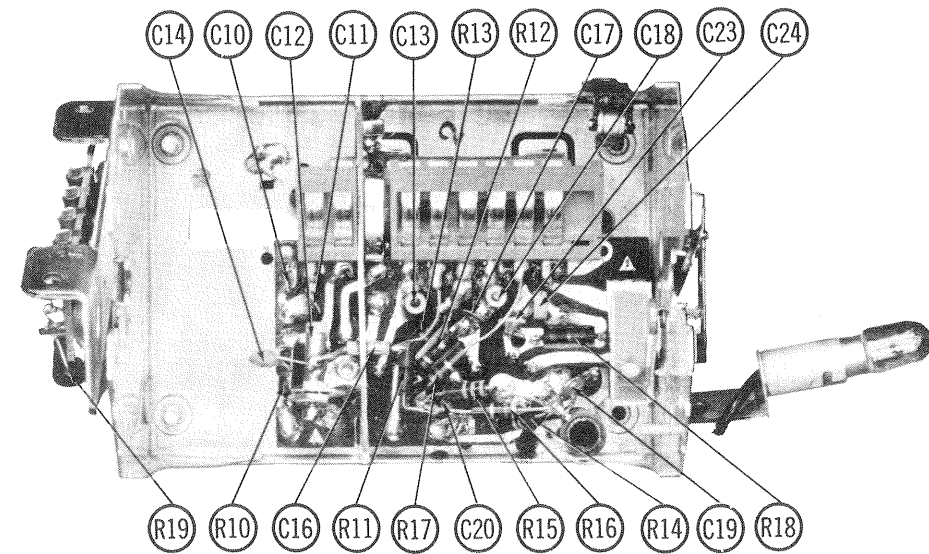
SET 359

FOLDER 15

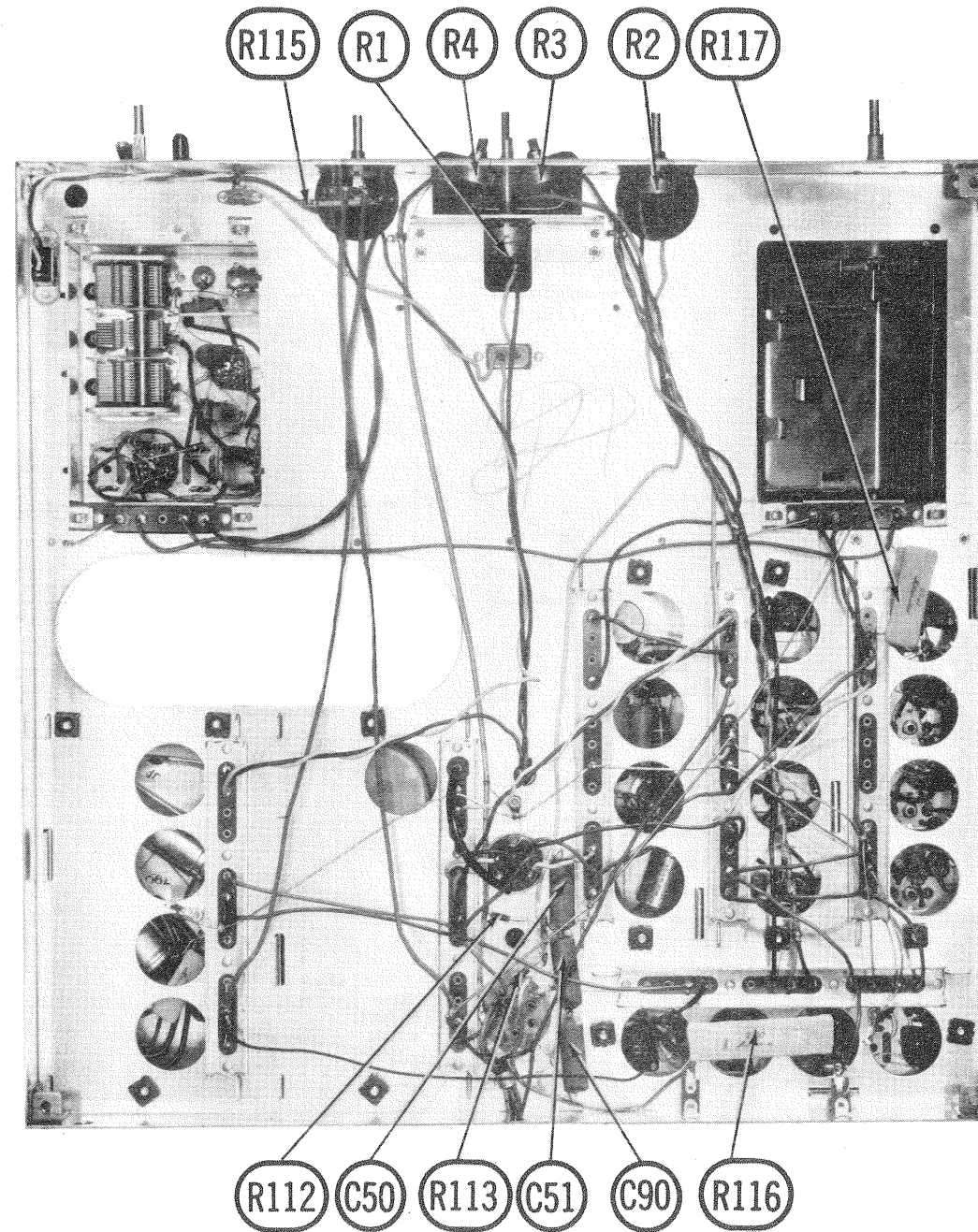
SETCHELL-CARLSON MODELS 571, 572, 573, 5701, -T, 5702, -T, 5703 (Ch. 157 RP)



RF TUNER-TOP VIEW



RF TUNER-BOTTOM VIEW



CHASSIS BOTTOM VIEW

CENT

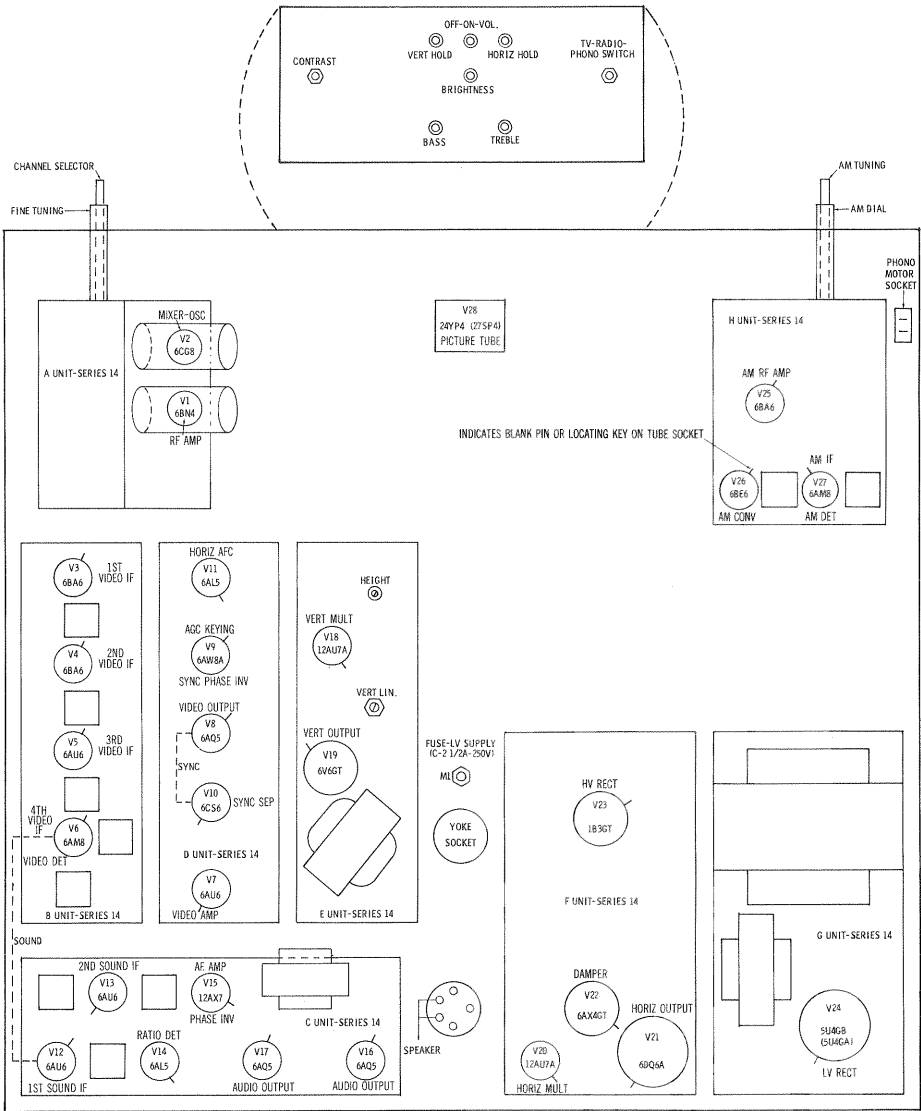
Turn the set on and tune in a
trol until the picture synchro

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 | 1Meg | 0Ω | .1Ω | † 3500Ω | 0Ω | 1Meg | | |
| V2 | 6CG8 | 10K | † 9300Ω | 0Ω | 0Ω | .1Ω | † 7200Ω | † 35K | 0Ω | 224K |
| V3 | 6BA6 | 100K | 1000Ω | 0Ω | .1Ω | † 4200Ω | † 4200Ω | 1000Ω | | |
| V4 | 6BA6 | 100K | 820Ω | 0Ω | .1Ω | † 3800Ω | † 3800Ω | 1000Ω | | |
| V5 | 6AU6 | .1Ω | 180Ω | 0Ω | .1Ω | † 3000Ω | † 3000Ω | 180Ω | | |
| V6 | 6AM8 | 180Ω | .1Ω | † 3000Ω | 0Ω | .1Ω | † 3000Ω | .1Ω | 3000Ω | 180Ω |
| V7 | 6AU6 | 1Meg | 0Ω | 0Ω | .1Ω | † 5500Ω | † 2500Ω | 0Ω | | |
| V8 | 6AQ5 | 1Meg | • 3700Ω | 0Ω | .1Ω | † 3000Ω | † 2500Ω | 1Meg | | |
| V9 | 6AW8A | 5600Ω | 47K | † 8000Ω | .1Ω | 0Ω | † 2500Ω | † 27K | † 22K | 270K |
| V10 | 6CS6 | † 2.2Meg | 0Ω | 0Ω | .1Ω | 35K | † 50K | 2.2Meg | | |
| V11 | 6AL5 | 27K | 27K | .1Ω | 0Ω | 4.8Meg | 0Ω | 4.8Meg | | |
| V12 | 6AU6 | 3.7Ω | 0Ω | 0Ω | .1Ω | † 4000Ω | † 4000Ω | 180Ω | | |
| V13 | 6AU6 | 2Ω | 0Ω | .1Ω | 0Ω | † 3000Ω | † 3000Ω | 180Ω | | |
| V14 | 6AL5 | 1.8Meg | 1.8Meg | 0Ω | .1Ω | 6800Ω | 0Ω | 6800Ω | | |
| V15 | 12AX7 | † 230K | 10Meg | 0Ω | 0Ω | 0Ω | † 230K | 15K | 2200Ω | .1Ω |
| V16 | 6AQ5 | 480K | 330Ω | 0Ω | .1Ω | † 2200Ω | † 12K | 480K | | |
| V17 | 6AQ5 | 470K | 330Ω | 0Ω | .1Ω | † 2200Ω | † 12K | 470K | | |
| V18 | 12AU7 | † 1.8Meg | • 750K | 4700Ω | 0Ω | 0Ω | † 220K | 0Ω | 4700Ω | .1Ω |
| V19 | 6V6GT | TP | .1Ω | † 550Ω | † 230Ω | 4.7Meg | TP | 0Ω | • 800Ω | |
| V20 | 12AU7A | † 100K | • 140K | 820Ω | 0Ω | 0Ω | † 27K | 7Meg | 820Ω | .1Ω |
| V21 | 6DQ6A | TP | .1Ω | NC | † 81K | 2.2Meg | TP | 0Ω | 0Ω | TOP CAP † 13Ω |
| V22 | 6AX4GT | TP | NC | INF | NC | † 26Ω | NC | .1Ω | 0Ω | |
| V23 | 1B3GT | PINS 1 THRU 8 HAVE INFINITE RESISTANCE | | | | | | | | TOP CAP † 223Ω |
| V24 | 6BA6 | 3.5Meg | 0Ω | 0Ω | .1Ω | † 2500Ω | † 20K | 0Ω | | |
| V25 | 6BE6 | 22K | .5Ω | 0Ω | .1Ω | † 2500Ω | † 20K | 2.5Meg | | |
| V26 | 6AM8 | 820Ω | 20Ω | † 20K | 0Ω | .1Ω | † 2500Ω | 0Ω | 360K | 0Ω |
| V27 | 5U4GB | NC | † | NC | 42Ω | NC | 39Ω | TP | † | |
| V28 | 24YP4 | 0Ω | 1Meg | Pin 6 † 26Ω | Pin 10 † 26Ω | Pin 11 • 550K | Pin 12 .1Ω | | | |

† MEASURED FROM PIN 8 OF V27.
† MEASURED FROM PIN 3 OF V22.
THIS READING WILL VARY, CONTROL SET FOR NORMAL OPERATION.
† 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

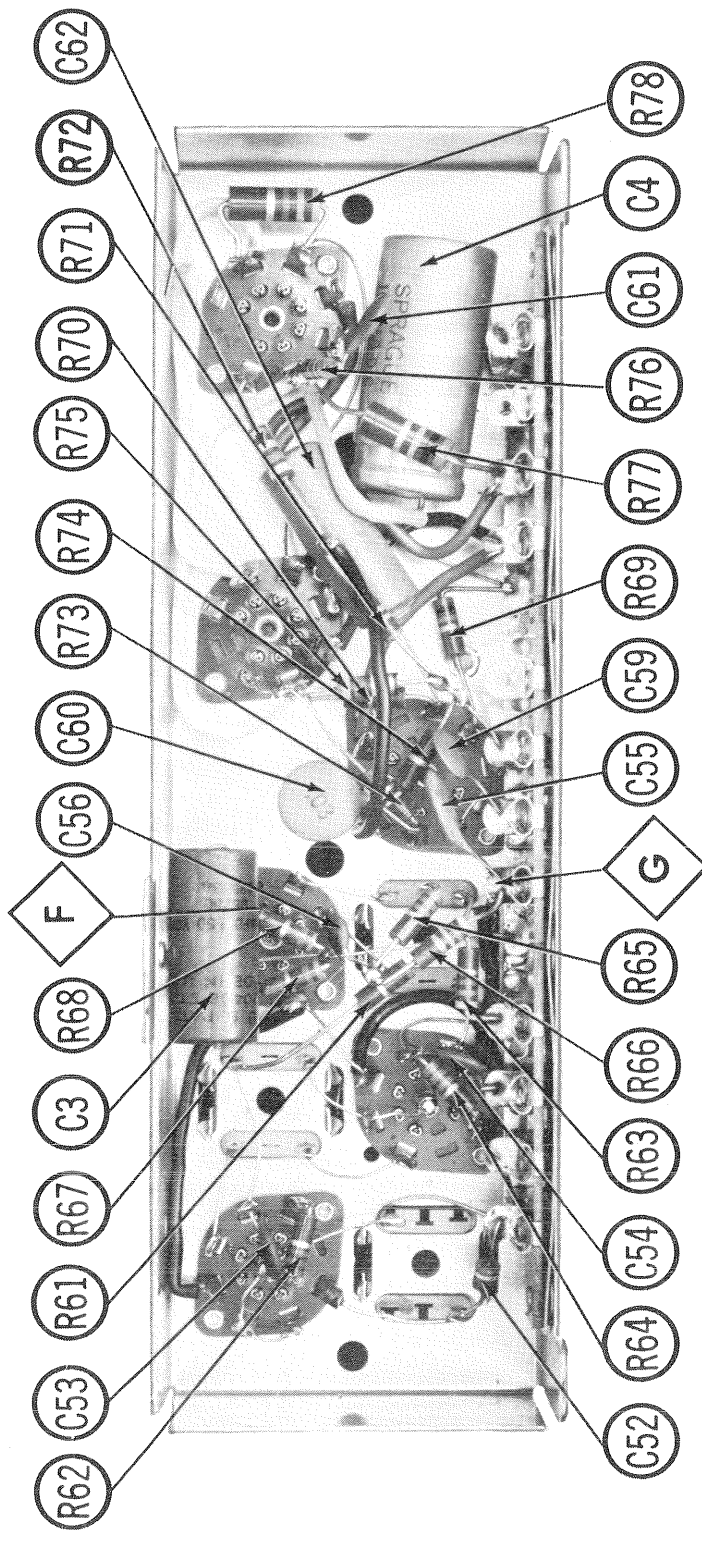


TUBE FAILURE CHECK CHART

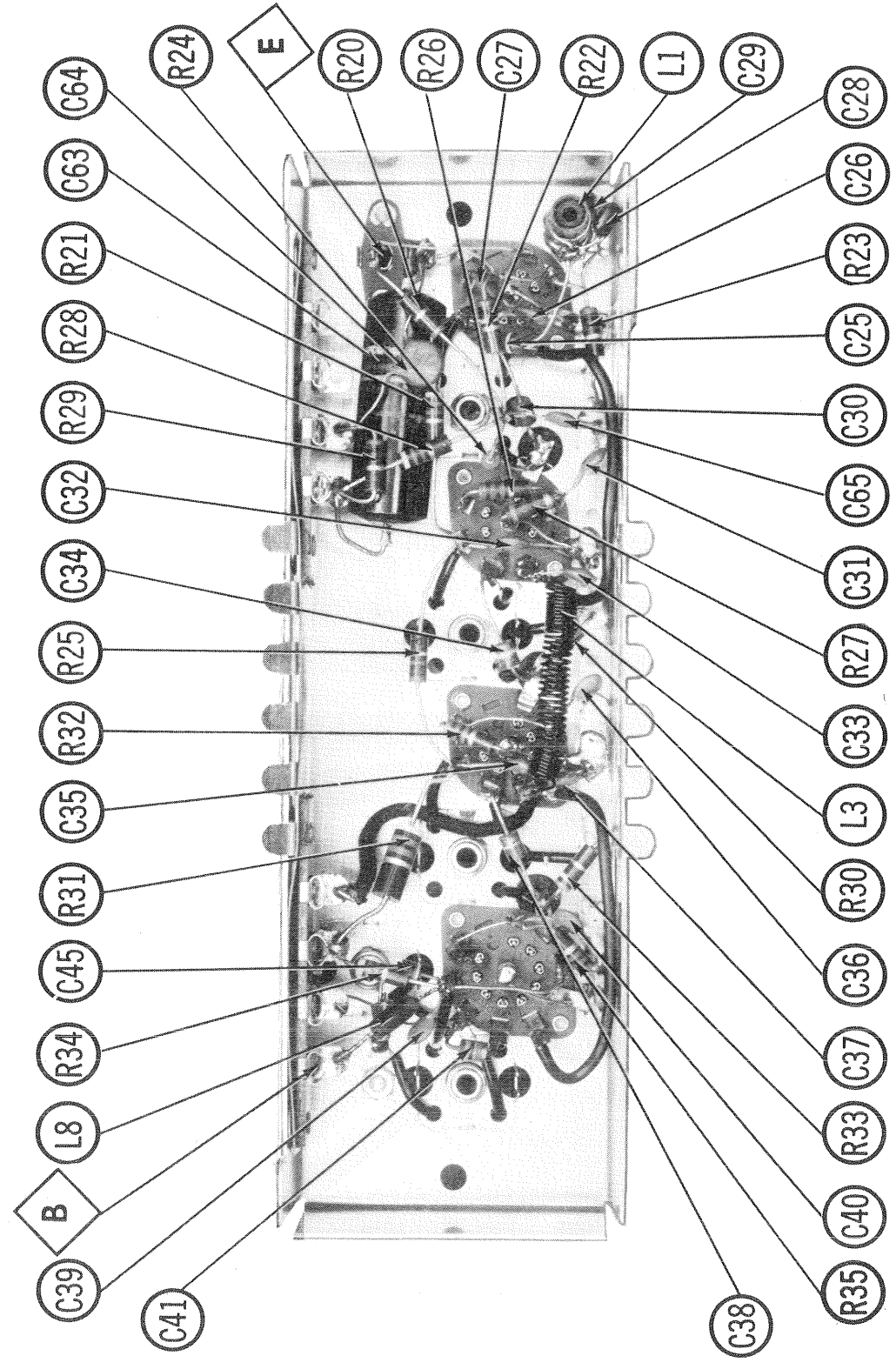
The following chart lists tubes whose failures are most likely to produce the indicated symptoms. Refer to tube placement chart for location and type of tube.

- POWER SUPPLY FAILURE**
No raster, no sound - Fuse (M1), V27
- LOSS OF PICTURE OR SOUND**
No pic, no sound, has raster - V3, V4, V5, V6, V9
No pic, no sound, has snow - V1, V2, V3
No pic, has sound, has raster - V7, V8, V28
Has pic, no sound - V12, V13, V14, V15, V16, V17
Overloaded picture - V9
- SYNC FAILURE**
No vert. sync - V10, V9
No horiz. sync - V10, V9, V11
No vert. or horiz. sync - V10, V9
- SWEEP FAILURE**
No raster, has sound - V20, V21, V22, V23, V28
No vertical deflection - V18, V19
Poor vert. linearity or foldover - V18, V19
Poor horiz. linearity or foldover - V11, V20, V21, V22
Narrow picture - V20, V21, V22, V27
Vert. off freq. - V18
Horiz. off freq. - V11, V20

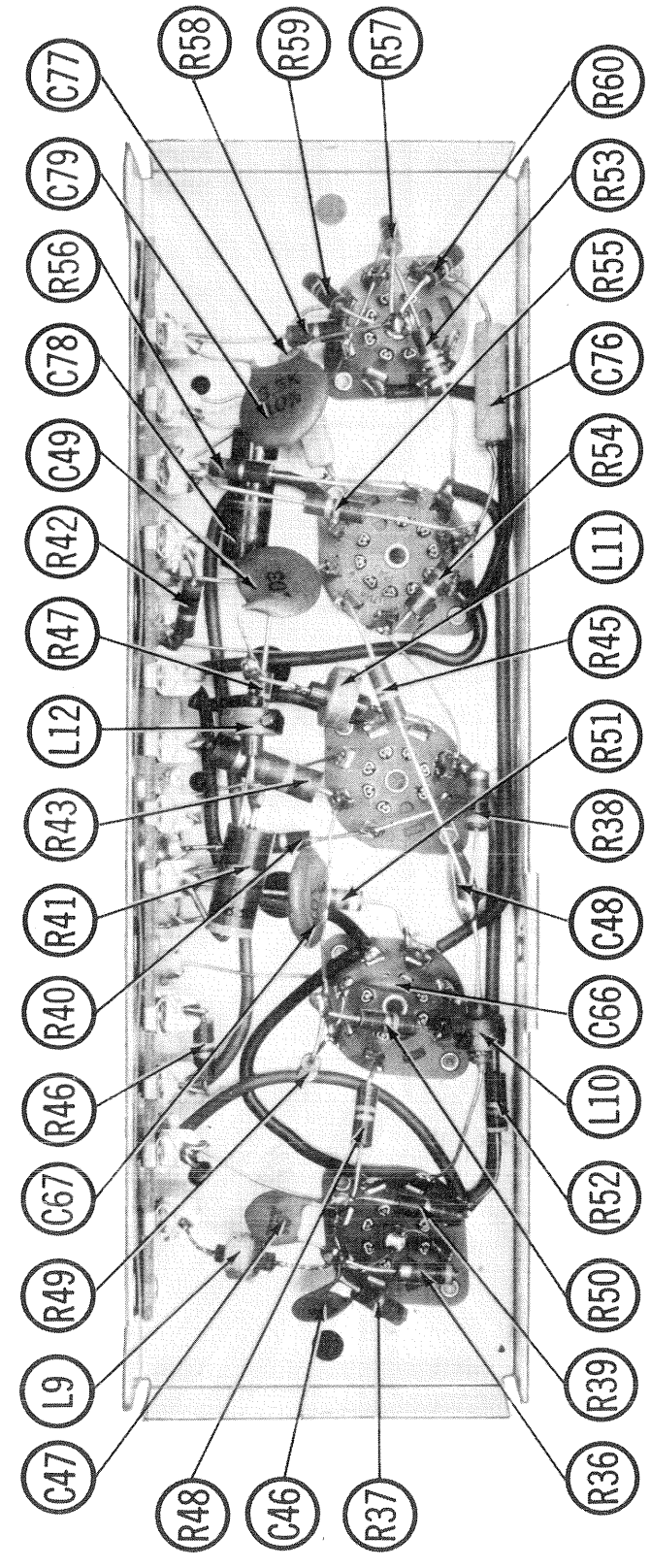
SETCHELL-CARLSON MODELS 571, 572, 573,
5701, -T, 5702, -T, 5703 (Ch. 157 RP)



SOUND SUB ASSEMBLY

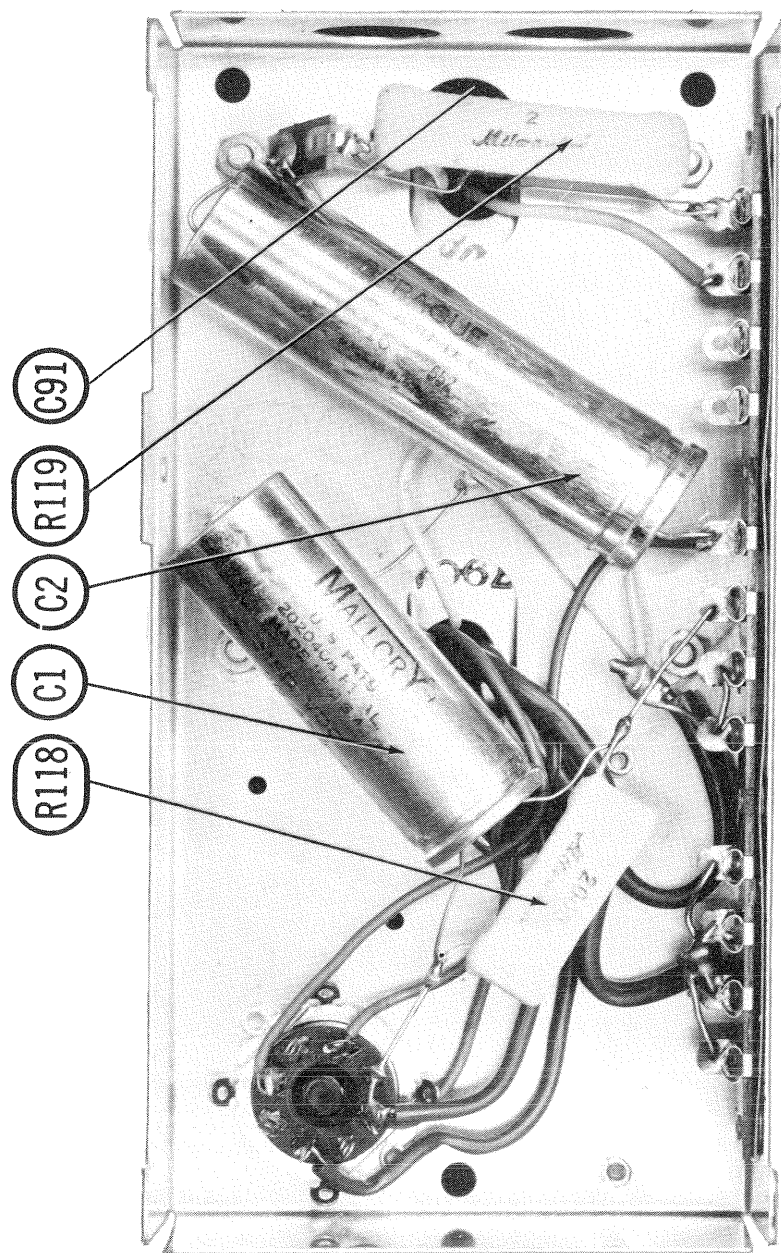


VIDEO IF SUB ASSEMBLY

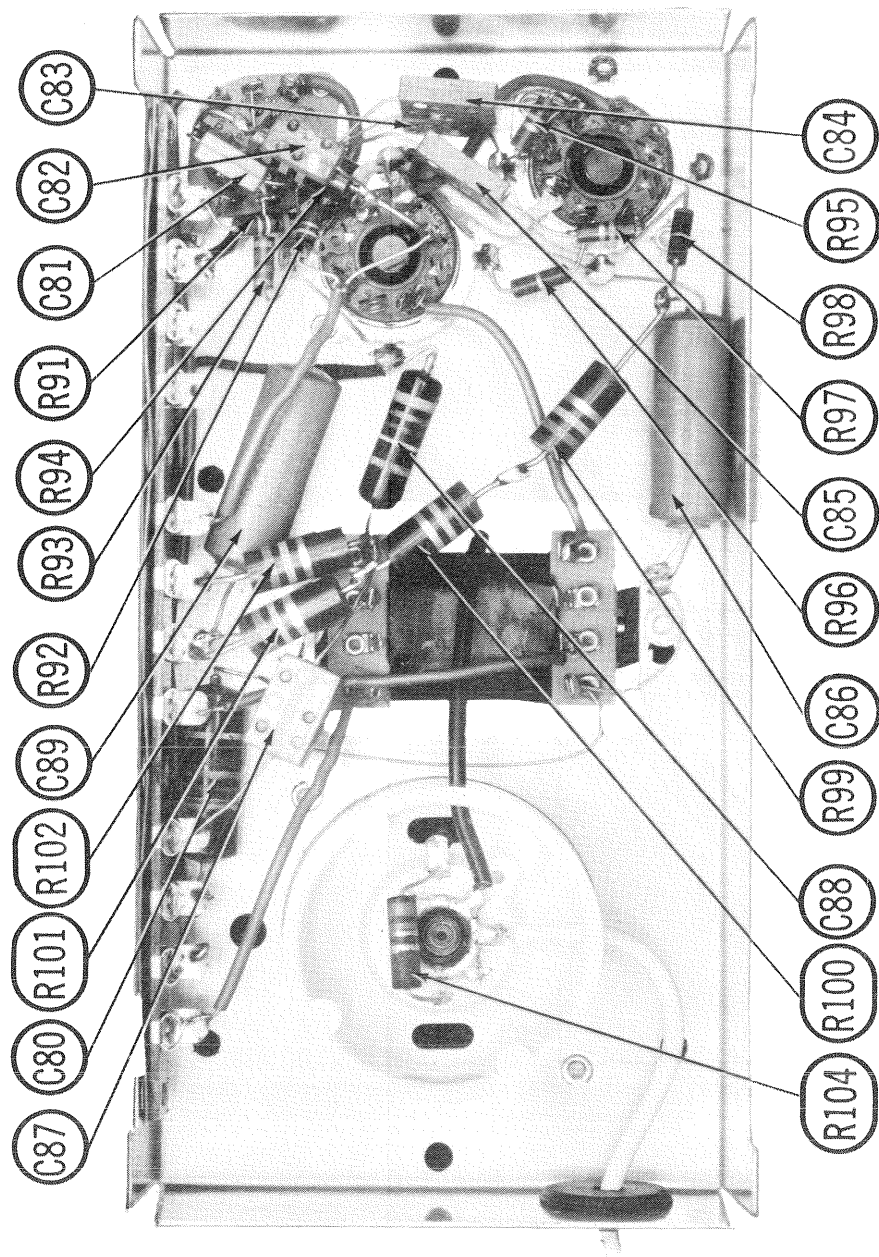


VIDEO OUTPUT, AGC, SYNC, AFC SUB ASSEMBLY
5701, -1, 5702, -1, 5703 (Ch. 157 RP)

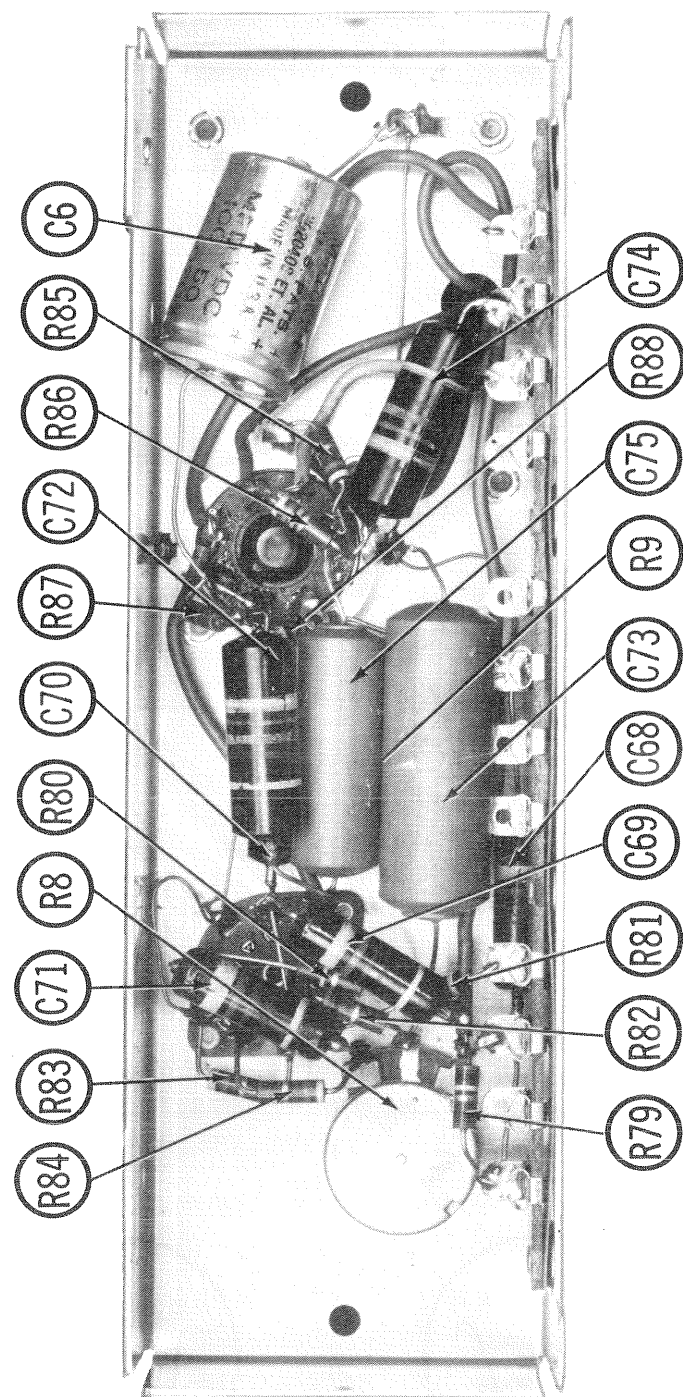
SETCHELL-CARLSON MODELS 571, 572, 573,



POWER SUPPLY SUB ASSEMBLY











HORIZONTAL SUB ASSEMBLY




VERTICAL SUB ASSEMBLY
 SETCHELL-CARLSON MODELS 571, 572, 573,
 5701, -1, 5702, -1, 5703 (Ch. 157 RP)

ALIGNMENT INSTRUCTIONS

| ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT | | | | | | |
|--|--|---------------------------|----------------------------|------------------------------|---|-------------------|
| The high voltage lead should be securely taped and kept away from the chassis. | | | | | | |
| VIDEO IF ALIGNMENT | | | | | | |
| Remove the mixer-osc. tube (V2) to reduce the possibility of erroneous indication. Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. | | | | | | |
| DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST |
| 1. Direct | High side to point  . Low side to chassis. | 44.0MC (10MC Swp) | 41.25MC 45.75MC 47.25MC | Any non-interfering channel. | Vert. amp. thru 10K to point  . Low side to chassis. | A1, A2, A3, A4 |
| 2. " | High side to point  . Low side to chassis. | " | " | " | " | A5, A6 |
| 3. " | High side to point  . Low side to chassis. | " | " | " | " | A7, A8 |
| 4. " | High side to point  . Low side to chassis. | " | " | " | " | A9, A10, A11, A12 |
| 5. " | Replace V3 in its socket. High side to a thin insulated metal strip inserted between mixer-oscillator tube (V2) and tube shield. | " | " | " | " | A13 |
| Adjust for response curve similar to Fig.1. Adjust A1 and A2 to shape curve and position 45.75MC marker. A3 is adjusted to place 47.25MC marker in trap notch. A4 is adjusted to place 41.25MC marker in its trap notch. | | | | | | |
| Adjust for response curve similar to Fig. 2. | | | | | | |
| " | | | | | | |
| Adjust A9 and A10 for response similar to Fig. 2. Adjust A11 to place 41.25MC marker in trap notch. Adjust A12 to place 47.25MC marker in trap notch. | | | | | | |
| Adjust for maximum symmetrical response as shown in Fig. 2. If necessary, retouch A1, A2 and A5 thru A10 for proper response similar to Fig.2. | | | | | | |

| SOUND IF ALIGNMENT | | | | | | |
|--------------------|---|----------------------------|------------------------------|--|--------------------|---|
| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | CONNECT VTVM | ADJUST | REMARKS |
| 6. .01MFD | High side to point  . Low side to chassis. | 4.5MC | Any non-interfering channel. | DC probe to point  . Common to chassis. | A14, A15, A16, A17 | Detune A18 by turning counter clockwise SLIGHTLY. Adjust A14, A15, A16 and A17 for maximum deflection. Use only enough generator output to provide usable indication on VTVM. |
| 7. " | " | " | " | DC probe to point  . Common to chassis. | A18 | Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. |

| 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 control to the center of its range. Use only enough sweep generator output to provide usable pattern on scope. | | | | | | |
| DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST |
| 8. Two 120Ω carbon resistors | Across antenna terminals with 120Ω in each lead. | 213MC (10MC Swp) | 211.25MC | 13 | Vert. amp. thru 47K to point  . Low side to chassis. | A19 |
| | | 207MC (10MC Swp) | 205.25MC | 12 | | A20 |
| | | 201MC (10MC Swp) | 199.25MC | 11 | | A21 |
| | | 195MC (10MC Swp) | 193.25MC | 10 | | A22 |
| | | 189MC (10MC Swp) | 187.25MC | 9 | | A23 |
| | | 183MC (10MC Swp) | 181.25MC | 8 | | A24 |
| | | 177MC (10MC Swp) | 175.25MC | 7 | | A25 |
| | | 171MC (10MC Swp) | 169.25MC | 6 | | A26 |
| | | 165MC (10MC Swp) | 163.25MC | 5 | | A27 |
| | | 159MC (10MC Swp) | 157.25MC | 4 | | A28 |
| | | 153MC (10MC Swp) | 151.25MC | 3 | | A29 |
| | | 147MC (10MC Swp) | 145.25MC | 2 | | A30 |
| | | 141MC (10MC Swp) | 139.25MC | | | |
| | | 135MC (10MC Swp) | 133.25MC | | | |
| | | 129MC (10MC Swp) | 127.25MC | | | |
| | | 123MC (10MC Swp) | 121.25MC | | | |
| | | 117MC (10MC Swp) | 115.25MC | | | |
| | | 111MC (10MC Swp) | 109.25MC | | | |
| | | 105MC (10MC Swp) | 103.25MC | | | |
| | | 99MC (10MC Swp) | 97.25MC | | | |

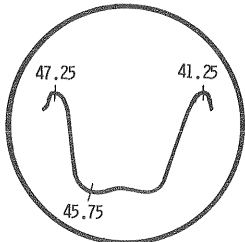


FIG.1

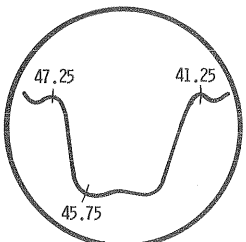


FIG. 2

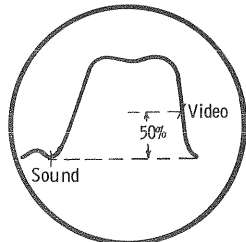
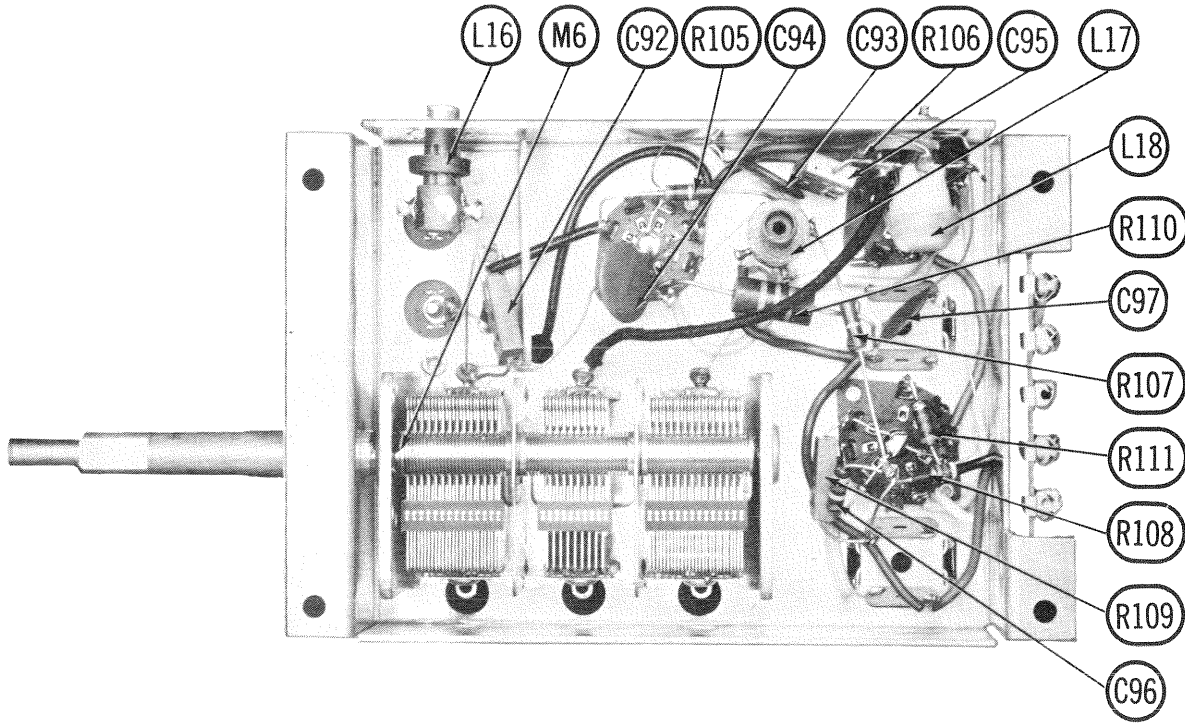


FIG. 3

ALIGNMENT INSTRUCTIONS (cont)

| RF AND MIXER ALIGNMENT | | | | | | |
|---|---|----------------------------|------------------|-------------------------|--------------------|--------------------|
| This portion of the receiver has been properly aligned at the factory and is very stable. Alignment of this portion should not be required in the field. | | | | | | |
| RADIO ALIGNMENT | | | | | | |
| To set pointer, turn tuning capacitor fully closed and set pointer to last reference mark at low frequency end of dial. Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting. | | | | | | |
| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | BAND SWITCH POS. | RADIO DIAL SETTING | OUTPUT METER | ADJUST |
| 9. .01MFD | High side to pin 7 (grid) of 6BE6 (V25). Low side to chassis. | 456KC (400v Mod) | Radio | Tuning gang fully open. | Across voice coll. | A31, A32, A33, A34 |
| 10. " | " | 1700KC | " | " | " | A35 |
| 11. " | Loop | 1400KC | " | Tune to 1400KC signal. | " | A36, A37, A38 |
| Adjust for maximum deflection. | | | | | | |
| " | | | | | | |
| Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output. | | | | | | |



SETCHELL-CARLSON MODELS 571, 572, 573,
5701, -1, 5702, -1, 5703 (Ch. 157 Rp)

RADIO SUB ASSEMBLY

COILS (cont)

* Parallel with 10K resistor.
 Δ Parallel with 22K resistor.

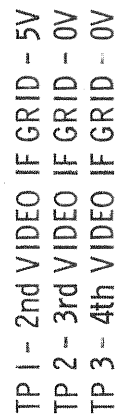
FILTER CHOKE

① Drill one new mounting hole.

FUSES

MISCELLANEOUS

Models 571, 572, 573
21" Models
27" Models
Large radio tuning, contrast
Med. On-off Volume, contrast
Tone
Radio Dial Rim
Channel Selector
Fine Tuning



**SETCHELL-CARLSON MODELS 571, 572, 573,
5701, -T, 5702, -T, 5703 (Ch. 157 RP)
NEW TOP SISSCHD**

TUBES (GENERAL ELECTRIC, SYLVANIA)

| ITEM No. | USE | TYPE | NOTES | ITEM No. | USE | TYPE | NOTES |
|----------|----------------------------|-------|-------|----------|---------------------|--------|--------|
| V1 | RF Amplifier | 6BN4 | | V14 | Ratio Det. | 6AL5 | |
| V2 | Mixer-Oscillator | 6CG8 | | V15 | AF Amp. Phase Inv. | 12AX7 | |
| V3 | 1st. Video IF Amp. | 6BA6 | | V16 | Audio Output | 6AQ5 | |
| V4 | 2nd. Video IF Amp. | 6BA6 | | V17 | Audio Output | 6AQ5 | |
| V5 | 3rd. Video IF Amp. | 6AU6 | | V18 | Vert. Mult. | 12AU7 | |
| V6 | 4th. Video IF Amp. | | | V19 | Vert. Output | 6V6GT | |
| | Video Det. | 6AM8 | | V20 | Horiz. Mult. | 12AU7A | |
| V7 | Video Amp. | 6AU6 | | V21 | Horiz. Output | 6DQ6A | |
| V8 | Video Output | 6AQ5 | | V22 | Damper | 6AX4GT | |
| V9 | AGC Keying-Sync Phase Inv. | 6AW8A | | V23 | HV Rectifier | 1B3GT | |
| V10 | Sync Sep. | 6CS8 | | V24 | AM RF Amp. | 6BA6 | |
| V11 | Horiz. AFC | 6AL5 | | V25 | AM Converter | 6AM8 | |
| V12 | 1st. Sound IF Amp. | 6AU6 | | V26 | AM IF Amp. -AM Det. | 6AM8 | |
| V13 | 2nd. Sound IF Amp. | 6AU6 | | V27 | LV Rectifier | 5U4GB | Note 1 |

Note 1. Some models may use 5U4GA in this application.

PICTURE TUBE

| ITEM No. | REPLACEMENT DATA | REPLACEMENT DATA | REPLACEMENT DATA | REPLACEMENT DATA | NOTES |
|----------|---------------------------|------------------|---------------------------|------------------------------|--------------------------------------|
| ITEM No. | Setchell-Carlson PART No. | CBS PART No. | GENERAL ELECTRIC PART No. | SYLVANIA PART No. | |
| V28 | 24YP4 | 24YP4 ② | 24YP4 ② | 24YP4 ① 24DP4A ① 24DP4 | ① Silver screen "85" ② Aluminized |
| | 27SP4 | | 27SP4 | | |

ELECTROLYTIC CAPACITORS

| RATING | | | REPLACEMENT DATA | | | | | | |
|----------|------|-------|------------------------------|---------------------|----------------------------------|---------------------|---------------------|----------------------|---------------------|
| ITEM No. | CAP. | VOLT. | Setchell-Carlson PART No. | AEROVOX PART No. | CORNELL- DUBILIER PART No. | MALLORY PART No. | PYRAMID PART No. | SANGAMO PART No. | SPRAGUE PART No. |
| C1A | 20 | 450 | C-112 | PRS450V2020 | BBRD2245 | TCD75 | TDLD-28 | FMD-4520 | TVA-2730 |
| C2 | 20 | 450 | C-113 | PRS450V80 | BR8045 | TC80 | TD-80-450 | MT-4560 | TVA-1716 |
| C3 | 5 | 150 | | PRS150V4 | BBR4-150 | TC40 | TD-4-150 | FM-1504 | TVA-1403 |
| C4 | 10 | 450 | | PRS450V10 | BR1045 | TC72 | TD-10-450 | FM-4510 | TVA-1705 |
| C5 | 10 | 450 | | PRS450V10 | BR1045 | TC72 | TD-10-450 | FMA-1705 | TVA-1705 |
| C6 | 100 | 50 | C-118 ① | PRS50V100 | BR1005 | TC3501 | TD-100-50 | MTH-5010 | TVA-1310 |
| C7 | 50 | 10 | | NP-PRS10V NP50V | BBR100-15 BBR100-15 | TC2501 TC250V | | MTH-1210 MTH-1210 | R-2223 * |

① Non-polarized unit.
† Connect negative leads together.
* 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 | Setchell-Carlson PART No. | AEROVOX PART No. | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | ERIE PART No. | MALLORY PART No. | | SPRAGUE PART No. |
| C8 | 120 | | | BPD-00012 | DD-121 | LI0T12 | ED-120 | UC-5312 | 5GA-T12 | N900 |
| C9 | 30 | | | | | | | | | |
| C10 | 28 | | | | | | | | | |
| C11 | 12 | | | | | | | | | |
| C12 | 1-4.5 | | | | 829-6 | | 532-B | | | |
| C13 | 1-4.5 | | | | 829-6 | | 532-B | | | |
| C14 | 5 | | | | | | | | | |
| C15 | 1000 | | | EF-001 | MFT-1000 | | | | 503C-D1 | |
| C16 | 47 | | | | | | | | | |
| C17 | 47 | | | | | | | | | |
| C18 | 1-4.5 | | | | 829-6 | | 532-B | | | |
| C19 | 470 | | | BPD-00047 | DD-471 | BYA10T47 | ED-470 | UC-5347 | 5GA-T47 | |
| C20 | 1000 | | | | | | | | | |
| C21 | 30 | | | | | | | | | |
| C22 | 1000 | | | EF-001 | MFT-1000 | | | | 503C-D1 | |
| C23 | 6.8 | | | | | | | | | |
| C24 | 6.8 | | | | | | | | | |
| C25 | 1.5 | | | | | | | | | |
| C26 | 1000 | | | NP0-SI 1 | TCZ-1R5 | C10V15C | TCO-1.5 | ZT-5575 | 5TCCB-V15 ② | |
| C27 | 1000 | | | BPD-001 | DD-102 | BYA6D1 | ED-1000 | DC521 | 5HK-D1 | |
| C28 | 70 | | | BPD-000068 | DD-680 | BYA6D1 | ED-1000 | DC521 | 5HK-D1 | |
| C29 | 56 | | | 1469-000056 | DD-560 | 22R5Q67 | | | MS-47 | |
| C30 | 1.2 | | | NP0-SI 1 | TCZ-1 | 22R5Q66 | | | MS-456 | |
| C31 | 1000 | | | BPD-001 | DD-102 | BYA6D1 | TCO-1 | | 5TCCB-V12 | |
| C32 | 1000 | | | BPD-001 | DD-102 | BYA6D1 | ED-1000 | DC521 | 5HK-D1 | |
| C33 | 1000 | | | BPD-001 | DD-102 | BYA6D1 | ED-1000 | DC521 | 5HK-D1 | |
| C34 | 1.2 | | | NP0-SI 1 | TCZ-1 | | TCO-1 | | 5HK-D1 | |
| C35 | 1000 | | | BPD-001 | DD-102 | BYA6D1 | ED-1000 | DC521 | 5TCCB-V12 | |
| C36 | 1000 | | | BPD-001 | DD-102 | BYA6D1 | ED-1000 | DC521 | 5HK-D1 | |
| C37 | 1000 | | | BPD-001 | DD-102 | BYA6D1 | ED-1000 | DC521 | 5HK-D1 | |
| C38 | 1.2 | | | BPD-001 | DD-102 | BYA6D1 | ED-1000 | DC521 | 5HK-D1 | |
| C39 | 1000 | | | NP0-SI 1 | TCZ-1 | | TCO-1 | | 5TCCB-V12 | |
| C40 | 1000 | | | BPD-001 | DD-102 | BYA6D1 | ED-1000 | DC521 | 5HK-D1 | |
| C41 | .33 | | | BPD-001 | DD-102 | BYA6D1 | ED-1000 | DC521 | 5HK-D1 | |
| C42 | 2.2 | | | | | | | | | |
| C43 | 56 | | | NP0-SI 2.2 | TCZ-2R2 | C10V22C | TCO-2.2 | | 5TCCB-V22 ③ | |
| C44 | 56 | | | 1469-000056 | DD-560 | 22R5Q66 | | | MS-456 | |
| C45 | 10 | | | 1469-000056 | DD-560 | 22R5Q66 | | | MS-456 | |
| C46 | 10000 | | | NP0-SI 10 | DD-100 | LI0Q1 | | | | |
| C47 | 10000 | | | BPD-01 | DD-103 | BYA6S1 | ED-10 | UC-541 | 5GA-Q1 | |
| C48 | 30000 | | | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C49 | 30000 | | | BPD-03 | DF-303 | BYB6S3 | ED-01 | DC511 | 5HK-S3 | |
| C50 | .1 | 400 | | BPD-03 | DF-303 | BYB6S3 | | | 5HK-S3 | |
| C51 | .1 | 400 | | P488N-1 | DF-104 | CUB4P1 | | GEM-401 | 4TM-P1 | |
| C52 | 6.8 | | | P488N-1 | DF-104 | CUB4P1 | | GEM-401 | 4TM-P1 | |
| C53 | 10000 | | | NP0-SI 6.8 | TCZ-6R6 | C10V66 | TCO-6.8 | ZT-5568 | 5TCCB-V68 | |
| C54 | 10000 | | | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C55 | 2700 | | | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C56 | 1000 | | | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C57 | .0047 | 400 | | BPD-0025 | D6-272 | BYA0T27 | ED-0027 | UC-5227 | 5HK-D25 | |
| C58 | 680 | | | BPD-001 | DD-102 | BYA6D1 | ED-1000 | DC521 | 5HK-D1 | |
| C59 | 10000 | | | BPD-0047 | DD-472 | CUB4D47 | ED-0047 | GEM-4247 | 4TM-D47 | |
| C60 | 30000 | | | 1464-00068 | DD-681 | 1R5T68 | | | MS-368 | |
| C61 | 10000 | | | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C62 | .047 | 400 | | EPD-03 | DF-303 | BYB6S3 | | | 5HK-S3 | |
| C63 | .47 | 400 | | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C64 | 10000 | | | BPD-05 | DF-503 | CUB4S47 | | GEM-4147 | 4TM-S47 | |
| C65 | 1000 | | | P488N-47 | CUB4P47 | | | GEM-4047 | 4TM-P47 | |
| C66 | 1000 | | | BPD-01 | DD-103 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C67 | 3500 | | | BPD-001 | DD-102 | BYA6D1 | ED-1000 | DC521 | 5HK-D1 | |
| C68 | .0047 | 400 | | BPD-001 | DD-102 | BYA6S1 | ED-01 | DC511 | 5HK-S1 | |
| C69 | .0047 | 400 | | BPD-0033 | D6-352 | BYA10D33 | ED-0033 | UC-5235 | 5HK-D33 | |
| C70 | .01 | 400 | | BPD-0047 | DD-472 | CUB4D47 | ED-0047 | GEM-4247 | 4TM-D47 | |
| | | | | BPD-0047 | DD-472 | CUB4D47 | ED-0047 | GEM-4247 | 4TM-D47 | |
| | | | | BPD-01 | DD-103 | CUB4S41 | ED-01 | GEM-411 | 4TM-S1 | |

PARTS LIST AND DESCRIPTIONS
CAPACITORS (cont)

| | | | REPLACEMENT DATA | | | | | | | NOTES |
|----------|--------|------|---------------------------|------------------|--------------------|---------------------------|---------------|------------------|------------------|-------|
| ITEM No. | RATING | | Setchell-Carlson PART No. | AEROVOX PART No. | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | ERIE PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| C71 | .0047 | 400 | | BPD-0047 | DD-472 | CUB4D47 | ED-0047 | GEM-4247 | 4TM-D47 | |
| C72 | .047 | 400 | | BPD-05 | DF-503 | CUB4S47 | | GEM-4147 | 4TM-S47 | |
| C73 | .22 | 400 | | P488N-22 | | CUB4P22 | | GEM-4022 | 4TM-P22 | |
| C74 | .1 | 400 | | P488N-1 | DF-104 | CUB4P1 | | GEM-401 | 4TM-P1 | |
| C75 | .047 | 400 | | BPD-05 | DF-503 | CUB4S47 | | GEM-4147 | 4TM-S47 | |
| C76 | .910 | | | 1464-00091 | | 1R5T91 | | | MS-391 | 10% ⑦ |
| C77 | .910 | | | 1464-00091 | | 1R5T91 | | | MS-391 | 10% ⑦ |
| C78 | .01 | 400 | | BPD-01 | DD-103 | CUB4S1 | ED-01 | GEM-411 | 4TM-S1 | |
| C79 | 3500 | | | BPD-0033 | DD-332 | BYA10D33 | ED-0033 | UC-5233 | 5HK-D33 | ⑧ |
| C80 | .047 | 400 | | BPD-05 | DF-503 | BYA10T47 | | GEM-4147 | 4TM-S47 | |
| C81 | .270 | | | 1469-00027 | | 5R5T27 | | | MS-327 | 5% |
| C82 | .56 | | | 1469-000056 | | 22R5Q56 | | | MS-456 | 10% |
| C83 | .270 | | | 1469-00027 | | 5R5T27 | | | MS-327 | 5% |
| C84 | .680 | | | 1464-00068 | | 5R5T68 | | | MS-368 | 10% ⑧ |
| C85 | .680 | | | 1464-00068 | | 5R5T68 | | | MS-368 | 10% ⑨ |
| C86 | .1 | 400 | | P488N-1 | DF-104 | CUB4P1 | | GEM-401 | 4TM-P1 | |
| C87 | .680 | 1000 | | HVD-15-680 | DD30-681 | BYA10T68 | HDI5-680 | DC30368 | 10HKB-T68 | ⑩ |
| C88 | .0033 | 400 | | BPD-0033 | D6-332 | CUB4D33 | ED-0033 | GEM-4233 | 4TM-D33 | ⑪ |
| C89 | .1 | 400 | | P488N-1 | DF-104 | CUB4P1 | | GEM-401 | 4TM-P1 | |
| C90 | .1 | 400 | | P488N-1 | DF-104 | CUB4P1 | | GEM-401 | 4TM-P1 | |
| C91 | 30000 | | | BPD-03 | DF-303 | BYB6S3 | | | 5HK-S3 | ⑫ |
| C92 | 100 | | | 1469-0001 | | 22R5T1 | | MC235 | MS-31 | 10% |
| C93 | 30000 | | | BPD-03 | DF-303 | BYB6S1 | | | 5HK-S3 | ⑬ |
| C94 | 30000 | | | BPD-03 | DF-303 | BYB6S3 | | | 5HK-S3 | |
| C95 | 100 | | | 1469-0001 | | 22R5T1 | | MC235 | MS-31 | 10% |
| C96 | 250 | | | 1469-00025 | | 22R5T25 | | | MS-325 | 10% |
| C97 | 30000 | | | BPD-03 | DF-303 | BYB6S3 | | | 5HK-S3 | |

② Some versions use a 1.2MMF in this application.
③ Some versions use a 1.5MMF in this application.
④ Some versions use a 470MMF in this application.
⑤ Some versions use an .03MFD in this application.
⑥ Some versions use a 2700MMF in this application.
⑦ Some versions use a 1000MMF in this application.
⑧ Some versions use a 910MMF in this application.
⑨ Some versions use 3000MMF in this application.
⑩ Some versions use an .047MFD in this application.
⑪ Some versions use an .003MFD in this application.
⑫ Not used in some versions.

CONTROLS

| ITEM No. | RATING | REPLACEMENT DATA | REPLACEMENT DATA | REPLACEMENT DATA | REPLACEMENT DATA | REPLACEMENT DATA | REPLACEMENT DATA | INSTALLATION NOTES |
|----------|------------|------------------|---------------------------|---------------------------|------------------|------------------|------------------|--------------------|
| ITEM No. | RESISTANCE | WATTS | Setchell-Carlson PART No. | CORNELL-DUBILIER PART No. | ERIC PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| R1A | 2Meg | 1/2 | V-806 | B-76 | A47-2Meg-Z | Q13-139 | U55 | Volume |
| B | Shaft | | | Not Req. | FS-3 | Not Req. | Not Req. | |
| C | Switch | | | KB-1 | SWE-12 | 76-1 | US-26 | |
| R2A | 4000Ω | 1/2 | V-805 | AB-12 | Q17-114 | Not Req. | | Contrast |
| B | Shaft | | | AK-3 | Q17-114 | Not Req. | | |
| R3A | 2.5Meg | 1/2 | V-803 | BX-83 | A47-2.5Meg-S | Q11-239 | SU-565 | Vert. Hold |
| B | Shaft | | | Not Req. | FKS-1/4 | SQ | Not Req. | |
| R4A | 100K | 1/2 | V-802 | EX-40 | A47-100K-S | Q11-128 | SU-41 | Horiz. Hold |
| B | Shaft | | | Not Req. | FKS-1/4 | SQ | Not Req. | |
| R5A | 2.5Meg | 1/2 | V-803 | BX-83 | A47-2.5Meg-S | Q11-239 | SU-565 | Brightness |
| B | Shaft | | | Not Req. | FKS-1/4 | SQ | Not Req. | |
| R6A | 500K | 1/2 | V-804 | AB-60 | A47-500K-Z | Q13-133 | U48 | Treble |
| B | Shaft | | | AK-1 | FKS-1/4 | SQ | Not Req. | |
| R7A | 2.5Meg | 1/2 | V-803 | BX-83 | A47-2.5Meg-S | Q11-239 | SU-565 | Bass |
| B | Shaft | | | Not Req. | FKS-1/4 | SQ | Not Req. | |
| R8A | 2Meg | 1/2 | V-803 | EX-40 | A47-2Meg-S | Q11-139 | SU-56 | Height |
| B | Shaft | | | Not Req. | FKS-1/4 | SQ | Not Req. | |
| R9A | 3000Ω | 1/2 | V-801 | AB-8 | A47-3000-S | Q11-112 | SU-8 | Vert. Lin. |
| B | Shaft | | | AK-1 | FKS-1/4 | RQ | Not Req. | |

RESISTORS

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

| ITEM No. | RATING | | REPLACEMENT DATA | | NOTES | | | | | | |
|----------|----------|------|------------------|----------|-------------|-------|--------|----------|------------|------------|--|
| | OHMS | WATT | Setchell-Carlson | IRC | | | | | | | |
| | | | PART No. | PART No. | | | | | | | |
| R10 | 4700Ω | 2 | | BTS-4700 | | R49 | 2.2Meg | | BTS-2.2Meg | | |
| R11 | 1000Ω | | | BTS-1000 | | R50 | 22K | | BTS-22K | | |
| R12 | 3900Ω | | | BTS-3900 | | R51 | 470K | | BTS-470K | | |
| R13 | 220K | | | BTS-220K | | R52 | 47K | | BTS-47K | | |
| R14 | 22K | | | BTS-22K | | R53 | 47K | | BTS-47K | | |
| R15 | 33K | | | BTS-33K | | R54 | 5600Ω | | BTS-5600 | | |
| R16 | 4700Ω | | | BTS-4700 | | R55 | 22K | | BTS-22K | | |
| R17 | 6800Ω | | | BTS-6800 | | R56 | 5600Ω | | BTS-5600 | | |
| R18 | 10K | | | BTS-10K | | R57 | 4.7Meg | | | | |
| R19 | 3900Ω | | | BTB-3900 | | R58 | 2.2Meg | | | | |
| R20 | 1200Ω | 2 | | | R59 | 100K | | | | | |
| R21 | 470Ω | | | BTS-470 | | R60 | 100K | | | | |
| R22 | 100K | | | | Note 1 | R61 | 1200Ω | | BTS-1200 | | |
| R23 | 1000Ω | | | BTS-1000 | Note 2 | R62 | 180Ω | | BTS-180 | | |
| R24 | 4700Ω | | | | | R63 | 470Ω | | BTS-470 | | |
| R25 | 820Ω | | | BTS-820 | | R64 | 180Ω | | BTS-180 | | |
| R26 | 180Ω | | | BTS-180 | Note 2 | R65 | 180Ω | | BTS-180 | | |
| R27 | 820Ω | | | BTS-820 | Note 1 | R66 | 47K | | BTS-47K | | |
| R28 | 470Ω | | | | | R67 | 6800Ω | | BTS-6800 | | |
| R29 | 1Meg | | | BTS-1Meg | Note 3 | R68 | 6800Ω | | BTS-6800 | | |
| R30 | 3900Ω | 1 | | BTS-3900 | | R69 | 10Meg | | BTS-10Meg | | |
| R31 | 470Ω | | | ETA-470 | | R70 | 220K | | BTS-220K | | |
| R32 | 180Ω | | | BTS-180 | | R71 | 15K | | BTS-15K | | |
| R33 | 3900Ω | | | BTS-3900 | | R72 | 470K | | BTS-470K | | |
| R34 | 470Ω | | | BTS-470 | | R73 | 220K | | BTS-220K | | |
| R35 | 180Ω | | | BTS-180 | | R74 | 2200Ω | | BTS-2200 | | |
| R36 | 3000Ω 5% | | 2 | | | R75 | 470K | | BTS-470K | | |
| R37 | 1Meg | | | | | | R76 | 3900Ω | | BTS-3900 | |
| R38 | 3000Ω 5% | | | | BTS-3000 5% | | R77 | 10K | 1 | ETA-10K | |
| R39 | 2.2Meg | | | | BTS-2.2Meg | | R78 | 330Ω | 1 | ETA-330 | |
| R40 | 1Meg | | | BTS-1Meg | | R79 | 100K | | BTS-100K | | |
| R41 | 3000Ω 5% | | | BTB-3000 | Note 4 | R80 | 220K | | BTS-220K | | |
| R42 | 1Meg | 1 | | | BTS-1Meg | | R81 | 470K | | BTS-470K | |
| R43 | 270Ω | | | | ETA-270 | | R82 | 1Meg | | BTS-1Meg | |
| R44 | 100K | | | | BTS-100K | | R83 | 4700Ω | | BTS-4700 | |
| R45 | 22K | | | | BTS-22K | | R84 | 4.7Meg | | BTS-4.7Meg | |
| R46 | 220K | | | BTS-220K | | R85 | 4.7Meg | | BTS-4.7Meg | | |
| R47 | 22K | | | BTS-22K | | R86 | 47K | | BTS-47K | | |
| R48 | 22K | | BTS-22K | | R87 | 8200Ω | | BTS-8200 | | | |
| | | | | | R88 | 470Ω | | BTS-470 | | | |