

The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation, such as, type of equipment used for measuring, handling and placement of probes, the accuracy of alignment, etc., that an absolute reading is impractical. AVC is made inoperative and 3-volt battery bias substituted for measurement.

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Nine voltage maintained at 117 volts for voltage readings.
5. Normal tolerance on component values makes possible a variation of 10% in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

PHOTOFACT* Folder

CLEARSONIC
MODEL 5C66



CLEARSONIC MODEL 5C66

| | | | | | | |
|--|--|--|--------------------------|--------------------------|---------------|---|
| TRADE NAME | | Clearsonic, Model 5C66 | | | | |
| MANUFACTURER | | U.S. Television Mfg. Co., 3 West 61st St., New York, N.Y. | | | | |
| TYPE SET | | AC-DC Operated Superheterodyne Receiver with Self Contained Loop Antenna | | | | |
| TUBES (FIVE) | | Types, 12SA7GT Converter, 12SK7GT IF Amp., 12SQ7GT Det.-AVC-AF, 50L6GT Power Output, 35Z5GT Rectifier. | | | | |
| POWER SUPPLY | | 110-120 Volts AC-DC | | RATING | | |
| TUNING RANGE—BROADCAST | | 535-1620KC | | .250 Amp. @ 117 Volts AC | | |
| ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT | | | | | | |
| To set pointer, turn tuning capacitor fully closed and set pointer parallel with base of dial. Use isolation transformer if available. If not, connect a capacitor in series with low side of signal generator and B-. Volume control at maximum position. Output of signal generator should be no higher than necessary to obtain output reading. Use an insulated alignment screwdriver for adjusting. | | | | | | |
| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | RADIO DIAL SETTING | OUTPUT METER | ADJUST | REMARKS |
| .1 MFD. | High side to Pin 8 (grid) 12SA7. Low side to B-. | 455KC | High freq. end of dial. | Across voice coil | A1,A2, A3,A4. | Adjust for maximum output. If isolation transformer is not used, reduce dummy antenna to .001 MFD to reduce hum modulation. |
| 200MMFD | High side to ext. ant. lead. Low side to ext. gnd. lead. | 1600KC | 1600KC | " | A5 | Adjust for maximum output. |
| 200MMFD | " | 1400KC | Tune for maximum output. | " | A6 | " " " " |
| 200MMFD | " | 600KC | 600KC | " | A7 | Remove dial to get access to slug adjustment. Rock tuning control and adjust for maximum output. Repeat last three steps. |

HOWARD W. SAMS & CO., INC.

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Indianapolis Indiana

CLEARSONIC
MODEL 5C66

PARTS LIST AND DESCRIPTIONS
 TUBES (SYLVANIA or Equivalent)

| ITEM No. | USE | REPLACEMENT DATA | | RMA BASE TYPE | INSTALLATION NOTES |
|----------|--------------|------------------------|----------------------|---------------|--------------------|
| | | US TELEVISION PART No. | STANDARD REPLACEMENT | | |
| 1 | Converter | 125A70T | 125A70T | 8AD | |
| 2 | IF Amp. | 125K70T | 125K70T | 8N | |
| 3 | Det.-AVC-AF | 125C70T | 125C70T | 9Q | |
| 4 | Power Output | 50L60T | 50L60T | 7AC | |
| 5 | Rectifier | 35Z50T | 35Z50T | 6AD | |

CAPACITORS

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

| ITEM No. | RATING | CAP. | VOLT | REPLACEMENT DATA | | | | IDENTIFICATION CODES AND INSTALLATION NOTES |
|----------|--------|------|------|-------------------|------------------|---------------------------|------------------|---|
| | | | | US TELE. PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SOLAR PART No. |
| 6 | 40 | 150 | 150 | PA-4300-1 | FRS150-40 | BR4015 | TC48 | W-40-150 |
| 7 | 10 | 150 | 150 | PA-4300-1 | FRS150-40 | BR4015 | TC48 | W-40-150 |
| 8 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 9 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 10 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 11 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 12 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 13 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 14 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 15 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 16 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 17 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 18 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 19 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 20 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 21 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 22 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 23 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 24 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 25 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 26 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 27 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 28 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 29 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 30 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 31 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 32 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 33 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 34 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 35 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 36 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 37 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 38 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 39 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 40 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 41 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 42 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 43 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 44 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |
| 45 | 10 | 150 | 150 | PA-4300-5 | FRS150-10 | BR1215 | TC42 | W-10-150 |

CONTROLS

| ITEM No. | RATING | RESIST. ANCE | WATTS | REPLACEMENT DATA | | | | INSTALLATION NOTES |
|----------|--------|--------------|-------|-------------------|------------------|--------------|--------------------|--------------------------------|
| | | | | US TELE. PART No. | MALLORY PART No. | IRC PART No. | CLAROSTAT PART No. | |
| 21A | 500KQ | 1 | 1 | PA4400-2 | W448 | D12-133 | N-60-2 | Volume Control |
| B | Start | | | Not Req. | Not Req. | A | Not Req. | Attach to 21A per instructions |
| C | Switch | | | Not Req. | Not Req. | 41 | SA-A | |

RESISTORS

| ITEM No. | RATING | RESISTANCE | WATTS | REPLACEMENT DATA | | IDENTIFICATION CODES |
|----------|---------|------------|-------|-------------------|--------------|---|
| | | | | US TELE. PART No. | IRC PART No. | |
| 22 | 20KQ | 1 | 1 | R18-223 | WTS-22K | Red-Blk.-Or. Oscillator Grid |
| 23 | 10 Meg. | 1 | 1 | R18-106 | WTS-10 Meg. | Br.-Blk.-Blue AVC Network-See Note 1 |
| 24 | 2 Meg. | 1 | 1 | R18-225 | WTS-2.2 Meg. | Red-Blk.-Grn. AVC Network |
| 25 | 10 Meg. | 1 | 1 | R18-106 | WTS-10 Meg. | Br.-Blk.-Blue AF Grid |
| 26 | 300KQ | 1 | 1 | R18-334 | WTS-330K | Or.-Blk.-Yl. AF Plate Load |
| 27 | 100KQ | 1 | 1 | R18-104 | WTS-100K | Br.-Blk.-Yl. AF Plate Decoupling |
| 28 | 510KQ | 1 | 1 | R18-514 | WTS-470K | Grn.-Br.-Yl. Output Grid |
| 29 | 150Q | 1 | 1 | R10-151 | WTA-150 | Br.-Grn.-Br. Output Cathode |
| 30 | 2200Q | 1 | 1 | R28-222 | WTA-2200 | Red-Red-Red Filter |
| 31 | 390Q | 1 | 1 | R28-391 | WTA-390 | Br.-White-Br. |
| 32 | 560Q | 1 | 1 | | WTS-560Q | Grn.-Blue-Red Parasitic Suppressor-See Note 1 |
| 33 | 1000Q | 1 | 1 | | WTS-1000 | Br.-Blk.-Red |

Note 1 - Not used in all models

TRANSFORMER (OUTPUT)

| ITEM No. | RATING | REPLACEMENT DATA | | | | INSTALLATION NOTES |
|----------|--------|------------------|---------|------------------------|--------------------|--|
| | | IMPEDANCE | DC RES. | US TELEVISION PART No. | STANCOR PART No. | |
| 34 | 2300Q | 3.4Q | 180Q | .6Q | Part of PC-62000-3 | ward mounting tabs down, file out slots and mount on Original Bracket. |

PARTS LIST AND DESCRIPTIONS (Continued)

SPEAKER

| ITEM No. | RATINGS | REPLACEMENT DATA | | | INSTALLATION NOTES |
|-------------|-----------------------|---------------------------|---|-----------|--------------------|
| | | US TELEVISION PART No. | JENSEN PART No. | | |
| 35 | FIELD PH | VC IPE. 3.48 | ST-107 | | |
| 36 | CONN DIA. 4-13/16" | VC DIA. 1/2" | PC-65000-3 | Mod. PS-Y | |
| | | | NOT READILY REPLACABLE-USE COMPLETE SPEAKER UNIT. | | |

R F COILS

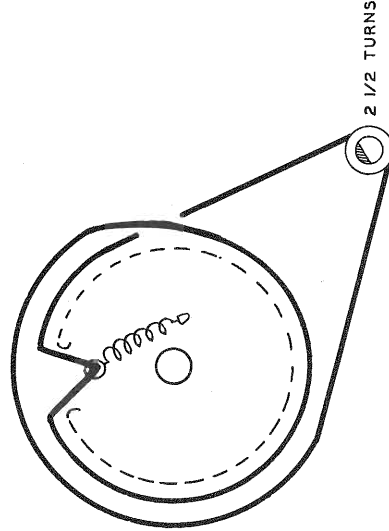
| ITEM No. | USE | DC RES. | | REPLACEMENT DATA | | |
|----------|------------------|---------|------|-------------------|-------------------|--|
| | | PRI | SEC. | US TELE. PART No. | MEISSNER PART No. | |
| 37 | Loop Ant. | 0Ω | 1.5Ω | | | 38 Part of tuning asbly. 39 " " " " 40 " " " " |
| 38 | Ant. Coill | 2Ω | 8Ω | | | |
| 39 | Osc. Coill | 2Ω | 9Ω | | | |
| 40 | Osc. Shunt Coill | | 7.5Ω | | | |
| 41 | Input IF | 16Ω | 16Ω | AB42202 | 16-6658 | |
| 42 | Output IF | 15Ω | 15Ω | AB42203 | 16-6660 | |

DIAL LIGHT

| ITEM No. | BASE TYPE | VOLTS | AMPS. | REPLACEMENT DATA | | INSTALLATION NOTES |
|----------|-----------|-------|-------|------------------|------------------------|--------------------|
| | | | | BEAD COLOR | US TELEVISION PART No. | |
| 43 | Bayonet | 6-8 | 0.15 | BROWN | PA-4100 | TYPE 47 |

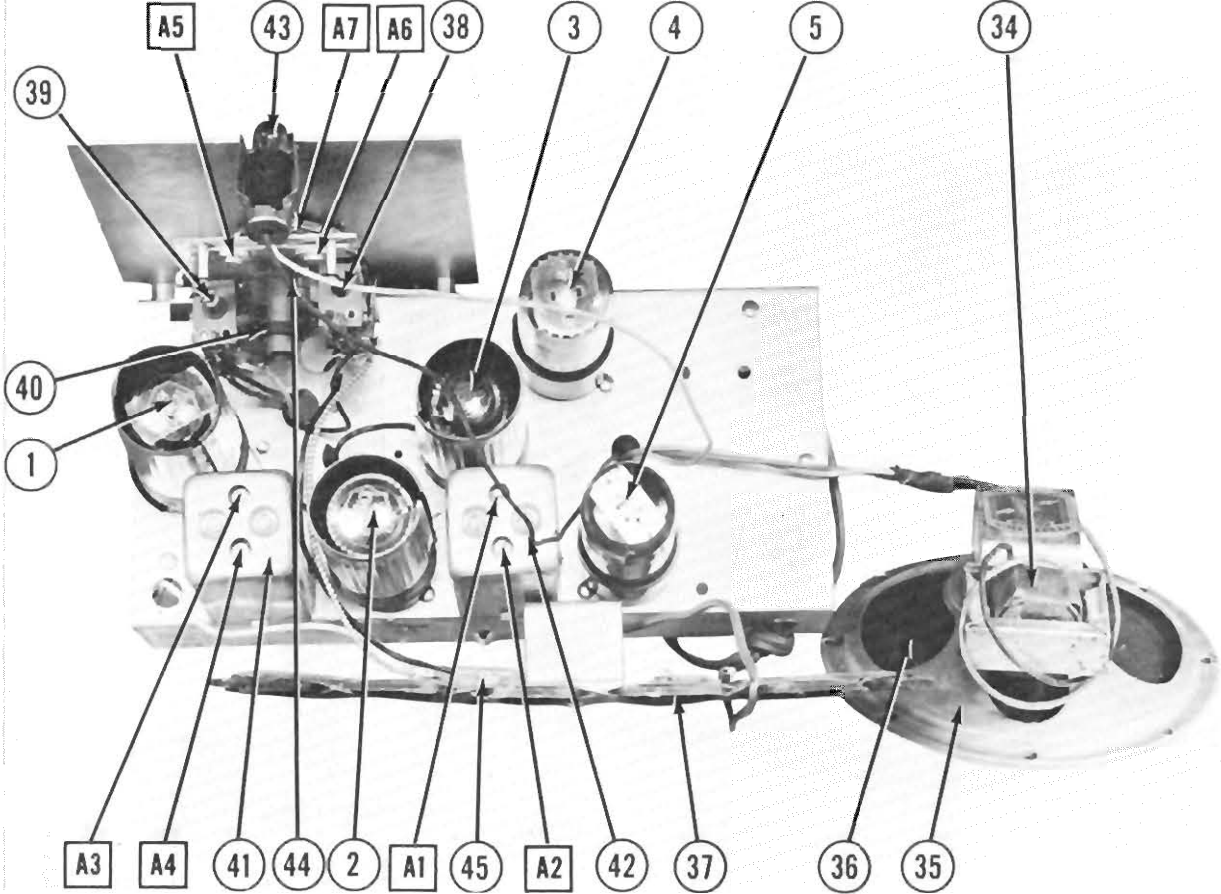
MISCELLANEOUS

| ITEM No. | PART NAME | US TELEVISION PART No. | NOTES |
|----------|--------------|------------------------|-------|
| 44 | Tuner Asbly. | | |



DIAL CORD DRIVE

CHASSIS--TOP VIEW



CHASSIS--BOTTOM VIEW

