SILVERTONE MODELS 7138, 7140, 7140 (Ch. 528.46300, 528.46301)

MODEL 7140 (Ch. 528.46301)

TRADE NAME: Silvertone

MODELS: 7138, 7140, 7142

SUPPLIER: Sears, Roebuck & Co., P.O. Box 45, Chicago, Illinois

TYPE SET: Color Television Receiver

TUNER: Twenty-ohm

POWER SUPPLY: 110-120 Volt AC, 60 Cycle

TUNING RANGE: Channel 2 thru 13 VHF, Channel 14 thru 82 UHF, Channel 9 thru 11 VHF

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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 guarantee of the availability or quality of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturer of the SAMS

DATE 2-58 • SET 388 • FOLDER 1
## RESISTANCE MEASUREMENTS

<table>
<thead>
<tr>
<th>RESISTANCE</th>
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<tbody>
<tr>
<td>V1</td>
<td>400k ohm</td>
</tr>
<tr>
<td>V2</td>
<td>11K ohm</td>
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<tr>
<td>V3</td>
<td>47K ohm</td>
</tr>
<tr>
<td>V4</td>
<td>47K ohm</td>
</tr>
<tr>
<td>V5</td>
<td>47K ohm</td>
</tr>
<tr>
<td>V6</td>
<td>1K ohm</td>
</tr>
<tr>
<td>V7</td>
<td>1 OHM</td>
</tr>
<tr>
<td>V8</td>
<td>10K ohm</td>
</tr>
<tr>
<td>V9</td>
<td>220K ohm</td>
</tr>
<tr>
<td>V10</td>
<td>1M ohm</td>
</tr>
</tbody>
</table>

The values listed are in ohms (Ω).
MICROSCOPIC ADJUSTMENTS

HORIZONTAL-JEEP CIRCUIT ADJUSTMENTS

Before making the adjustment, make sure that the line voltage applied to the television set is normal. Before making the adjustment, be sure that the pictures are not being displayed horizontally. If the pictures are being displayed horizontally, adjust the horizontal output circuit. Then adjust the line voltage as normal. When the pictures are being displayed horizontally, be sure that the horizontal output circuit is properly adjusted. If the pictures are being displayed horizontally, adjust the horizontal output circuit. Then adjust the line voltage as normal.

STEP 1. Adjust the horizontal phase of line voltage to the center of the screen. (Refer to the instructions for the horizontal phase adjustment.)

STEP 2. Adjust the horizontal output circuit to the center of the screen. (Refer to the instructions for the horizontal output circuit adjustment.)

STEP 3. Adjust the horizontal phase of line voltage to the center of the screen. (Refer to the instructions for the horizontal phase adjustment.)

STEP 4. Adjust the horizontal output circuit to the center of the screen. (Refer to the instructions for the horizontal output circuit adjustment.)

STEP 5. Adjust the horizontal phase of line voltage to the center of the screen. (Refer to the instructions for the horizontal phase adjustment.)

STEP 6. Adjust the horizontal output circuit to the center of the screen. (Refer to the instructions for the horizontal output circuit adjustment.)

STEP 7. Adjust the horizontal phase of line voltage to the center of the screen. (Refer to the instructions for the horizontal phase adjustment.)

STEP 8. Adjust the horizontal output circuit to the center of the screen. (Refer to the instructions for the horizontal output circuit adjustment.)

STEP 9. Adjust the horizontal phase of line voltage to the center of the screen. (Refer to the instructions for the horizontal phase adjustment.)

STEP 10. Adjust the horizontal output circuit to the center of the screen. (Refer to the instructions for the horizontal output circuit adjustment.)

STEP 11. Adjust the horizontal phase of line voltage to the center of the screen. (Refer to the instructions for the horizontal phase adjustment.)

STEP 12. Adjust the horizontal output circuit to the center of the screen. (Refer to the instructions for the horizontal output circuit adjustment.)

STEP 13. Adjust the horizontal phase of line voltage to the center of the screen. (Refer to the instructions for the horizontal phase adjustment.)

STEP 14. Adjust the horizontal output circuit to the center of the screen. (Refer to the instructions for the horizontal output circuit adjustment.)

STEP 15. Adjust the horizontal phase of line voltage to the center of the screen. (Refer to the instructions for the horizontal phase adjustment.)

STEP 16. Adjust the horizontal output circuit to the center of the screen. (Refer to the instructions for the horizontal output circuit adjustment.)

STEP 17. Adjust the horizontal phase of line voltage to the center of the screen. (Refer to the instructions for the horizontal phase adjustment.)

STEP 18. Adjust the horizontal output circuit to the center of the screen. (Refer to the instructions for the horizontal output circuit adjustment.)

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STEP 27. Adjust the horizontal phase of line voltage to the center of the screen. (Refer to the instructions for the horizontal phase adjustment.)

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STEP 31. Adjust the horizontal phase of line voltage to the center of the screen. (Refer to the instructions for the horizontal phase adjustment.)

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STEP 48. Adjust the horizontal output circuit to the center of the screen. (Refer to the instructions for the horizontal output circuit adjustment.)

STEP 49. Adjust the horizontal phase of line voltage to the center of the screen. (Refer to the instructions for the horizontal phase adjustment.)

STEP 50. Adjust the horizontal output circuit to the center of the screen. (Refer to the instructions for the horizontal output circuit adjustment.)

STEP 51. Adjust the horizontal phase of line voltage to the center of the screen. (Refer to the instructions for the horizontal phase adjustment.)
ALIGNMENT INSTRUCTIONS

The high voltage lead should be securely taped and lead wrap from the chassis. Allow a cold weather warming period for the receiver and test equipment.

VIDEO IF ALIGNMENT
Connect the synchronizer output from the camera generator to the horizontal input of the oscilloscope for horizontal alignment. The camera generator output should be connected with the appropriate capacitors, variable to balance. Use only enough camera generator output to provide a stable pattern on scope.

SILVERTONE MODELS 7142, 7143, 7145, 7146

1. High side to pin 2 (ground) of 84 BMIC. Low side to chassis.
2. High side to pin 2 (ground) of 84 BMIC. Low side to chassis.
3. High side to ungrounded channel (red). Low side to chassis.
4. High side to ungrounded channel (red). Low side to chassis.
5. High side to pin 2 (ground) of 84 BMIC. Low side to chassis.

CROSA AFPC ALIGNMENT

When extremely small signals are being measured, the output stages of the camera may be damaged. Ensure that the camera output is not excessively high.

1. Adjust A4 and A3 for MINIMUM output on the scope. Zero volts to pin 7 of 7142 or 13 of 7143.
2. Adjust A4 and A3 for minimum output on the scope. Zero volts to pin 7 of 7142 or 13 of 7143.
3. Adjust A4 and A3 for minimum output on the scope. Zero volts to pin 7 of 7142 or 13 of 7143.
4. Adjust A4 and A3 for minimum output on the scope. Zero volts to pin 7 of 7142 or 13 of 7143.
5. Adjust A4 and A3 for minimum output on the scope. Zero volts to pin 7 of 7142 or 13 of 7143.

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5. High side to pin 2 (ground) of 84 BMIC. Low side to chassis.
CABINET—REAR VIEW

DISASSEMBLY INSTRUCTIONS

1. Remove 8 pull-out type knobs from the cabinet.
2. Remove 4 screws securing the side extensions. Remove the extensions and their 5 pull-out type knobs.
3. Remove 7 screws along the bottom edge of the rear cover. Remove 3 wood screws along the top and sides of the rear cover. Pull the cover out of the cabinet and slide it up to remove.
4. Remove 6 wood screws from the trim strip at the top edge of the cabinet glass. Remove the trim strip. The holding glass is secured to the top and held up by the hinges.
5. Remove 3 bolts from the AC transformer switch at the top edge of the cabinet glass.
6. Remove speaker knobs.
7. Remove 8 chassis bolts from the bottom.
8. Remove the chassis.
### Parts List and Descriptions (Continued)

#### Speaker

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Type</th>
<th>Use</th>
<th>Notes</th>
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<tbody>
<tr>
<td>EF1</td>
<td>P’-P</td>
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<td>6-30</td>
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#### Coils (BF-IF)

<table>
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<tr>
<th>Part No.</th>
<th>Type</th>
<th>Use</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF1</td>
<td>Audio Tt.</td>
<td>1500-L-2</td>
<td>Chassis</td>
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#### Replacement Data

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<tr>
<td>LF1</td>
<td>Audio Tt.</td>
<td>1500-L-2</td>
<td>Chassis</td>
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</table>

#### Transformer (Horiz., Osc.)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Type</th>
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<th>Notes</th>
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<td>DC Res.</td>
<td>1500</td>
<td>150000</td>
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#### Electrolytic Capacitors

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<th>Part No.</th>
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<tr>
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<td>F250</td>
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<tr>
<td>C2</td>
<td>300</td>
<td>F250</td>
<td>15-75-7</td>
</tr>
<tr>
<td>C3</td>
<td>300</td>
<td>F250</td>
<td>15-75-7</td>
</tr>
<tr>
<td>C4</td>
<td>300</td>
<td>F250</td>
<td>15-75-7</td>
</tr>
<tr>
<td>C5</td>
<td>300</td>
<td>F250</td>
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</tr>
<tr>
<td>C6</td>
<td>300</td>
<td>F250</td>
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</table>

#### Fixed Capacitors

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<tr>
<td>C1</td>
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<td>F250</td>
<td>15-75-7</td>
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<tr>
<td>C2</td>
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<td>F250</td>
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</tr>
<tr>
<td>C3</td>
<td>300</td>
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### Parts List and Descriptions (Continued)

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<th>DESCRIPTION</th>
<th>QUANTITY</th>
<th>NOTES</th>
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Note: This page appears to be a continuation of a parts list, but the table and diagram are not fully visible or legible due to the orientation and quality of the image.