

MODEL 160-L, Entertainer

## INTRODUCTION

The installation of the Trans-Vue Model 160-L consists of two units, (namely the remote tuner and the deflection chassis), and its antenna installation should be made under the supervision of a qualified serviceman.

### THE ANTENNA

Use an antenna with a balanced 300 ohm impedance. Instructions for installing the antenna should be included with that unit. However, it is well to remember: Television signals, unlike standard radio broadcast signals, travel only in a straight line. Consequently, obstacles such as tall buildings, hills, bridge structures, and even the curvature of the earth (if the transmitting and receiving antennas are far enough apart) hinder the reception of good, strong signals. Therefore, it is advisable to erect the receiving antenna as high as possible. If it is higher than any other surrounding objects connect the antenna mast through a heavy conductor to a ground rod to reduce the lightning hazard.

### POWER

The set should be operated from a 105-125 volt source, alternating current, 50-60 cycles. The Deflection Chassis derives its A. C. supply through the long cord which connects it to the rear of the Remote Tuner where there are four A. C. outlets. One or more deflection units can be used with one Remote Tuner, and all sets will be simultaneously turned off with the On-Off switch on the Remote Tuner (see fig. 1).

### CONTROLS

The controls on the Deflection Unit have been properly pre-set at the factory, however due to rough or improper handling in shipping they may need slight re-adjustment. Although these controls have been intended primarily for the serviceman, it would be well to have him acquaint you with them. This is best done with the help of page 4, "Test Patterns".

## INSTALLATION

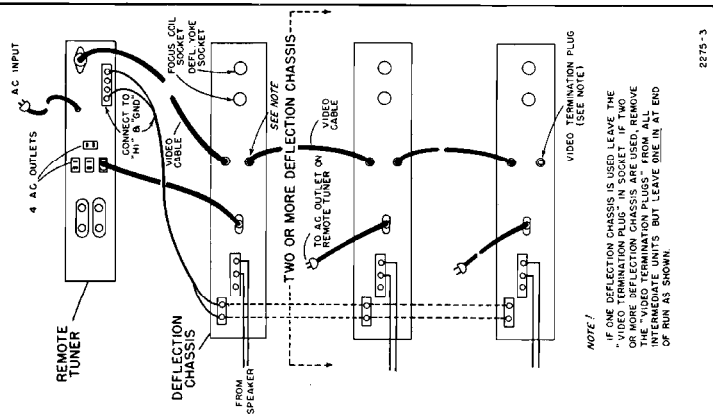
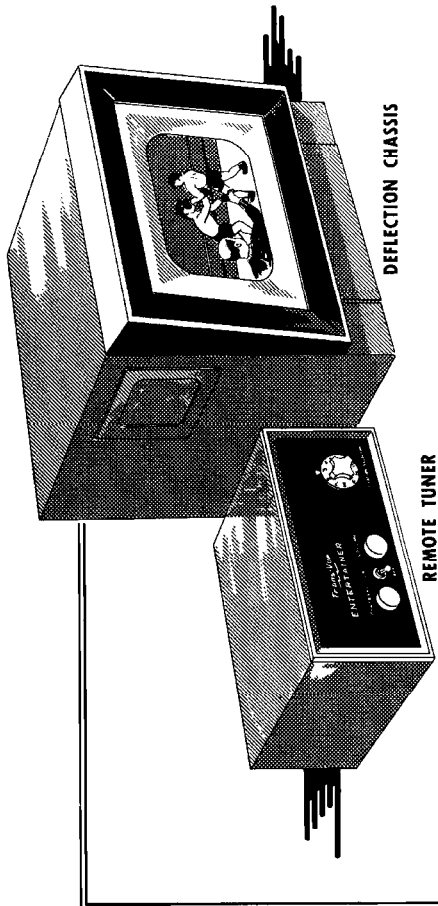


Fig. 1. Connecting the remote tuner to one or more deflection chassis.

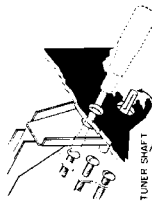


## ADJUSTMENT OF STATION SELECTOR

The station selector of your television set has been partially pre-set at the factory, but readjustment of the settings may have to be made at the time of the initial installation. This should be done by the serviceman.

If at a later time a new station comes on the air, or if the receiver is moved to a locality where other stations can be received, adjust the station selector in the following manner.

1. Turn the set on. Allow the set to warm up for 20 minutes.
2. Turn the contrast control approximately two-thirds of the way toward its full clockwise position.
3. Turn the volume control approximately to its mid-position.
4. Set the station selector knob to the desired channel.
5. Grasp the station selector knob around its edge and, while rocking it slightly, pull it off its shaft. It may be necessary to slide a cloth, such as a handkerchief, behind the knob to pull it away from the cabinet.
6. Insert a screwdriver into the hole near the station selector knob shaft (see illustration). Turn the screw



proper picture consult your serviceman.

7. When the sound is at maximum, the picture will appear on the screen but "sound bars" (dark horizontal bars of varying width) will be seen traveling vertically from bottom to top across the picture. With the screwdriver, turn the station selector screw counter-clockwise only far enough to remove the sound bars from the picture.
8. If after the seven steps above, you cannot receive a proper picture consult your serviceman.

## PICTURE ADJUSTING CONTROLS ON THE DEFLECTION CHASSIS

**Volume**—controls sound at each deflection unit (also see SOUND).

**Deflection Yoke** \* —Provides horizontal and vertical deflection of electron beam.

**Focus Coil** \* —Focuses electron beam on face of picture tube and centers picture on screen.

**Ion Trap** \* —Prevents ions from reaching the picture tube screen.

\* Located on neck of picture tube.

## ANTENNA CONNECTIONS

1. For those who use separate Hi and Low Band antennae, with two lead-in cables, connect the Hi-Band leads to the two top terminals marked Hi-Band, connect the Lo-Band leads to the two bottom terminals marked Lo-Band. See fig. 2, sketch A.
2. For those who use a combined Hi-Lo Band antenna, better known as a "All Wave Antenna" with one lead-in cable, connect as shown in fig. 2, sketch B.
3. In some cases due to location or environment of the receiving antennae, better results can be had by connecting the lead-in as shown in fig. 2, sketch C.
4. An alternate arrangement for those who receive from Hi-Band stations only (Channels 7 thru 13), the All Wave Antenna lead-in may be connected to the two top terminals marked Hi-Band, with no strap or connection to the Lo-Band terminals.
5. Use the arrangement which gives the most satisfactory results.

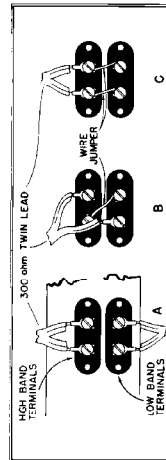


Fig. 2. Alternate antenna connections

21. Center the picture finally with the three focus coil supporting and adjustment screws. Move these one at a time so as to learn the general direction of picture movement with each.
  22. Readjust WIDTH, HEIGHT and V. LINEARITY controls if necessary.
- DO NOT USE FINE HORIZ. HOLD CONTROL FOR CENTERING PURPOSES.**  
 Make final adjustment of FOCUS control.  
 Make final adjustment of ION TRAP.

**NOTE:** As this unit employs a magnetically deflected tube, there will be some centering effects due to the earth's magnetic field. This effect will vary according to the location of the unit geographically and its position with respect to the earth field. If centering requires much tilting of the plane of the focus coil face relative to the tube neck, easier centering may usually be obtained by rotating the picture tube in its mounting so as to require less tilting of the focus coil. This can be done by loosening the wire clamp around the front of the tube. **DO NOT ATTEMPT THIS WITHOUT TURNING OFF THE UNIT AND MOMENTARILY SHORT CIRCUITING THE HIGH VOLTAGE TO GROUND.** After adjustment has been made, tighten the wire clamp. **DO NOT TIGHTEN UNNECESSARILY.** About 3/4" of thread should protrude from the nut.

13. Adjust VERTICAL HOLD control to stop vertical motion, if necessary.
14. Focus picture with the FOCUS control. Try to obtain as uniform a focus as possible across the tube face.  
 (The following steps are best accomplished with a station test pattern.)
15. If picture is not fairly well centered, adjust centering roughly by loosening focus coil supporting bracket wing nut, and move focus coil to center the picture. Readjust FOCUS control for sharpest picture. If shadow appears at picture edge, adjust ion trap.
16. Rotate FINE H. HOLD control quickly from left to right and back again. Picture should go out of sync on both ends of the control range. If not, set control to mid-position and adjust COARSE control. Repeat these operations until picture goes out of sync at both ends of FINE control.
17. Set FINE control so that picture is properly phased. This is where vertical lines in the picture are straight and no folding of the picture is seen at either edge. That is, where the scanning lines are least distinct.
18. Adjust VERTICAL HOLD control for best interlace, that is, where the scanning lines are least distinct.
19. Adjust WIDTH control until picture fills mask opening horizontally.
20. Adjust HEIGHT and VERTICAL LINEARITY controls together to fill mask opening vertically and to achieve best linearity.

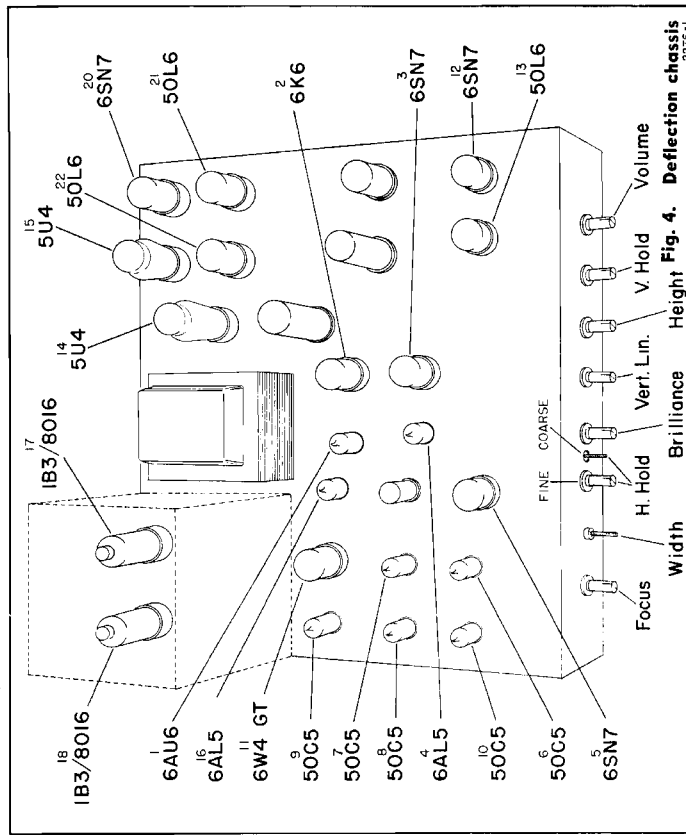


Fig. 4. Deflection chassis

**WARNING!**

**DO NOT PUT YOUR HAND INTO THE REAR OF THE DEFLECTION UNIT UNTIL YOU HAVE READ "DEFLECTION CHASSIS ADJUSTMENT PROCEDURE".**

**SOUND**

tion Unit so that sound from one Unit does not conflict or clash with the sound of the other, thereafter the volume is controlled only at the Remote Tuner. This is called "Phasing of the sound". If sound from two or more units is improperly "Phased" there will be "dead spots" in the room where no sound will be heard, and other spots where sound from one Unit will arrive later than sound from another Unit causing "Clashing".

**DEFLECTION CHASSIS ADJUSTMENT PROCEDURE**

All adjustments are made from the front of the unit, with the exception of ion trap and centering. The following procedure should be followed step by step for best results.

**WARNING!**

**IN MAKING ADJUSTMENTS ON ION TRAP, FOCUS COIL AND YOKE, EXERCISE GREAT CAUTION NOT TO TOUCH THE METAL SHELL OF THE PICTURE TUBE. THIS SHELL IS AT A 2,000 VOLT POTENTIAL. ALSO AVOID TOUCHING THE PORTION OF THE TUBE WHICH LIES BETWEEN THE METAL SHELL AND THE NECK. THIS IS COVERED WITH AN INSULATING COATING, AND SHOULD NOT BE SMEARED BY HAND OR FINGER PRINTS.**

6. Make sure that the deflection yoke is pushed forward on the neck of the tube as far as possible. If not, loosen clamping screw on the side of the yoke bracket and move the yoke forward. Tighten screw partially.
7. Turn on tuner with ON-OFF switch. After set is warmed-up, note if a white raster has appeared on screen.  
 (A mirror is helpful in the following adjustment.) Adjust ion trap for maximum brightness on screen. This is done by gently rotating the ion trap and pushing it forward and back slowly on the tube neck until the best position is found. The best position is that in which the screen is evenly and brightly illuminated and no edges of the raster are shaded or cut-off.
9. Now observe whether the top and bottom edges of the raster are parallel to the edge of the mask or (if the unit has been taken out of its cabinet) to the table. If not, adjust this by rotating the deflection yoke slightly until this condition is obtained. Tighten yoke clamp. Do not squeeze yoke unnecessarily.
10. Reduce the brilliance of the raster with the BRILLIANCE control until light is barely visible.
11. Increase the CONTRAST at the tuner to secure a picture on the screen. Advance this control just enough to give good graduations of black, gray and white.
12. If the picture is out of sync horizontally, adjust the FINE HORIZONTAL HOLD control to stop picture. If this does not work, set FINE control to mid-position and adjust COARSE.

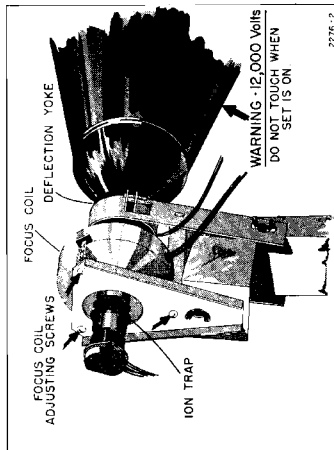


Fig. 3. Picture-tube accessories

1. Make sure that yoke and focus coil plugs and picture tube socket are properly inserted on deflection chassis.
2. On the tuner, rotate channel selector to a station channel which is "on the air".
3. Turn CONTRAST control on tuner to extreme counter-clockwise position, (left).
4. Turn VOLUME control on tuner to counter-clockwise position, (left).
5. Turn BRILLIANCE control on deflection unit to extreme right. Remove perforated metal back on cabinet.



MODEL 160-L, Entertainer

Ref. Symbol	Part No.	Description
R35	C-981-90	220,000 ohms, 1/2 watt, ±10%
R36	C-981-54	300 ohms, 1/2 watt, ±10%
R37	C-981-21	22,000 ohms, 1/2 watt, ±20%
R38	C-982-94	470,000 ohms, 1/2 watt, ±10%
R39	C-982-94, 95, 96, 97	96, 97, 98
R40	C-982-94	98
R41	C-984-43	27 ohms, 2 watts, ±20%
R42	C-981-75	100 ohm control, 1 megohm
R43	C-981-25	100 ohm control, 1 megohm
R44	C-981-75	220,000 ohms, 1/2 watt, ±20%
R45	C-981-75	220,000 ohms, 1/2 watt, ±20%
R46	C-981-75	220,000 ohms, 1/2 watt, ±20%
R47	C-981-85	82 ohms, 1/2 watt, ±10%
R48	C-981-85	82 ohms, 1/2 watt, ±10%
R49	C-982-48	50 ohms, 1 watt, ±10%
R50	C-984-75	2700 ohms, 2 watts, ±10%
R51	C-984-75	2700 ohms, 2 watts, ±10%
R52	C-981-85	82 ohms, 1/2 watt, ±10%
R53	C-981-85	82 ohms, 1/2 watt, ±10%
R54	C-981-85	82 ohms, 1/2 watt, ±10%
R55	C-981-85	82 ohms, 1/2 watt, ±10%
R56	C-981-85	82 ohms, 1/2 watt, ±10%
R57	C-981-85	82 ohms, 1/2 watt, ±10%
R58	C-981-85	82 ohms, 1/2 watt, ±10%
R59	C-981-85	82 ohms, 1/2 watt, ±10%
R60	C-981-85	82 ohms, 1/2 watt, ±10%
R61	C-981-85	82 ohms, 1/2 watt, ±10%
R62	C-981-85	82 ohms, 1/2 watt, ±10%
R63	C-981-85	82 ohms, 1/2 watt, ±10%
R64	C-981-85	82 ohms, 1/2 watt, ±10%
R65	C-981-85	82 ohms, 1/2 watt, ±10%
R66	C-981-85	82 ohms, 1/2 watt, ±10%
R67	C-981-85	82 ohms, 1/2 watt, ±10%
R68	C-981-85	82 ohms, 1/2 watt, ±10%
R69	C-981-85	82 ohms, 1/2 watt, ±10%
R70	C-981-85	82 ohms, 1/2 watt, ±10%
R71	C-981-85	82 ohms, 1/2 watt, ±10%
R72	C-981-85	82 ohms, 1/2 watt, ±10%
R73	C-981-85	82 ohms, 1/2 watt, ±10%
R74	C-981-85	82 ohms, 1/2 watt, ±10%
R75	C-981-85	82 ohms, 1/2 watt, ±10%
R76	C-981-85	82 ohms, 1/2 watt, ±10%
R77	C-981-85	82 ohms, 1/2 watt, ±10%
R78	C-981-85	82 ohms, 1/2 watt, ±10%
R79	C-981-85	82 ohms, 1/2 watt, ±10%
R80	C-981-85	82 ohms, 1/2 watt, ±10%
R81	C-981-85	82 ohms, 1/2 watt, ±10%
R82	C-981-85	82 ohms, 1/2 watt, ±10%
R83	C-981-85	82 ohms, 1/2 watt, ±10%
R84	C-981-85	82 ohms, 1/2 watt, ±10%
R85	C-981-85	82 ohms, 1/2 watt, ±10%
R86	C-981-85	82 ohms, 1/2 watt, ±10%
R87	C-981-85	82 ohms, 1/2 watt, ±10%
R88	C-981-85	82 ohms, 1/2 watt, ±10%
R89	C-981-85	82 ohms, 1/2 watt, ±10%
R90	C-981-85	82 ohms, 1/2 watt, ±10%
R91	C-981-85	82 ohms, 1/2 watt, ±10%
R92	C-981-85	82 ohms, 1/2 watt, ±10%
R93	C-981-85	82 ohms, 1/2 watt, ±10%
R94	C-981-85	82 ohms, 1/2 watt, ±10%
R95	C-981-85	82 ohms, 1/2 watt, ±10%
R96	C-981-85	82 ohms, 1/2 watt, ±10%
R97	C-981-85	82 ohms, 1/2 watt, ±10%
R98	C-981-85	82 ohms, 1/2 watt, ±10%
R99	C-981-85	82 ohms, 1/2 watt, ±10%
R100	C-981-85	82 ohms, 1/2 watt, ±10%

**LOW AND HIGH BAND TRACKING ALIGNMENT PROCEDURE**  
**Visually set trimmers (high band and low band).** (See Figure 7, sketch A.)

**High band tracking alignment procedure:**

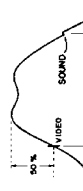
1. After low band has been tracked, switch tuner to top of its stroke on high band.
2. Readjust the sweep generator so that the response curve appears on the screen. (Approx. channel 13.1 R58 curve appears on the screen.)
3. Adjust all cores so that they just begin to affect picture on scope. (Approx. channel 13.)
4. Adjust core plate by channel 13 station selector screw so that all core enter coils an additional 1/8".
5. Turn channel 13 picture carrier marker on and adjust high band oscillator C26 trimmer so channel R76 13 picture carrier marker beats with 26.75 Mc. I.F. R70 marker.
6. Adjust high band primary C7, and secondary trimmer C14 so response is maximum and flat, and the appears 50% down edge of response.
7. Switch to each of the other channels on the high band and check the symmetry of the response curve for each switch position. (The sweep generator will have to be reset for each channel.) Use trimmers C7 and C14 to affect a compromise which will give the best response curve across the band. (See step 8 of the low band alignment.)
8. Switch to channel 7, apply a 175.25 megacycle signal, and note the position of the marker on the response curve. If the marker can be moved to the 50% point by adjustment of the channel 7 station selector screw (with the screw still at least one turn in from its maximum "out" position), the alignment of the high band has been properly completed.

Ref. Symbol	Part No.	Description
C3	A-8G-13962	.005 mf, ceramic
C4	C-8G-16045	220 mf, ±20%, ceramic
C5	C-8G-13201	1000 mf, ceramic
C6	C-8G-17203	12 mf, ±10%, ceramic
C7	C-8G-15142	Trimmer capacitor
C8	A-8G-12495-7	.5 mf, ceramic
C9	A-8G-12495-3	1.5 mf, ceramic
C10	C-8G-11893	4 mf, ±1/4 mf, ceramic
C11	C-8G-11891	51 mf, ±5%, ceramic
C12	C-8G-12495-4	22 mf, ceramic
C13	C-8G-15274	7.5 mf, ±1/2 mf, ceramic
C14	C-8G-13201	1000 mf, ceramic
C15	C-8G-13201	1000 mf, ceramic
C16	C-8G-13201	1000 mf, ceramic
C17	C-8G-13201	1000 mf, ceramic
C18	C-8G-13201	1000 mf, ceramic
C19	C-8G-13201	1000 mf, ceramic
C20	C-8G-13201	1000 mf, ceramic
C21	C-8G-13201	1000 mf, ceramic
C22	C-8G-13201	1000 mf, ceramic
C23	C-8G-13201	1000 mf, ceramic
C24	C-8G-13201	1000 mf, ceramic
C25	C-8G-13201	1000 mf, ceramic
C26	C-8G-13201	1000 mf, ceramic
C27	C-8G-13201	1000 mf, ceramic
C28	C-8G-13201	1000 mf, ceramic
C29	C-8G-13201	1000 mf, ceramic
C30	C-8G-13201	1000 mf, ceramic
C31	C-8G-13201	1000 mf, ceramic
C32	C-8G-13201	1000 mf, ceramic
C33	C-8G-13201	1000 mf, ceramic
C34	C-8G-13201	1000 mf, ceramic
C35	C-8G-13201	1000 mf, ceramic
C36	C-8G-13201	1000 mf, ceramic
C37	C-8G-13201	1000 mf, ceramic
C38	C-8G-13201	1000 mf, ceramic
C39	C-8G-13201	1000 mf, ceramic
C40	C-8G-13201	1000 mf, ceramic
C41	C-8G-13201	1000 mf, ceramic
C42	C-8G-13201	1000 mf, ceramic
C43	C-8G-13201	1000 mf, ceramic
C44	C-8G-13201	1000 mf, ceramic
C45	C-8G-13201	1000 mf, ceramic
C46	C-8G-13201	1000 mf, ceramic
C47	C-8G-13201	1000 mf, ceramic
C48	C-8G-13201	1000 mf, ceramic
C49	C-8G-13201	1000 mf, ceramic
C50	C-8G-13201	1000 mf, ceramic
C51	C-8G-13201	1000 mf, ceramic
C52	C-8G-13201	1000 mf, ceramic
C53	C-8G-13201	1000 mf, ceramic
C54	C-8G-13201	1000 mf, ceramic
C55	C-8G-13201	1000 mf, ceramic
C56	C-8G-13201	1000 mf, ceramic
C57	C-8G-13201	1000 mf, ceramic
C58	C-8G-13201	1000 mf, ceramic
C59	C-8G-13201	1000 mf, ceramic
C60	C-8G-13201	1000 mf, ceramic
C61	C-8G-13201	1000 mf, ceramic
C62	C-8G-13201	1000 mf, ceramic
C63	C-8G-13201	1000 mf, ceramic
C64	C-8G-13201	1000 mf, ceramic
C65	C-8G-13201	1000 mf, ceramic
C66	C-8G-13201	1000 mf, ceramic
C67	C-8G-13201	1000 mf, ceramic
C68	C-8G-13201	1000 mf, ceramic
C69	C-8G-13201	1000 mf, ceramic
C70	C-8G-13201	1000 mf, ceramic
C71	C-8G-13201	1000 mf, ceramic
C72	C-8G-13201	1000 mf, ceramic
C73	C-8G-13201	1000 mf, ceramic
C74	C-8G-13201	1000 mf, ceramic
C75	C-8G-13201	1000 mf, ceramic
C76	C-8G-13201	1000 mf, ceramic
C77	C-8G-13201	1000 mf, ceramic
C78	C-8G-13201	1000 mf, ceramic
C79	C-8G-13201	1000 mf, ceramic
C80	C-8G-13201	1000 mf, ceramic
C81	C-8G-13201	1000 mf, ceramic
C82	C-8G-13201	1000 mf, ceramic
C83	C-8G-13201	1000 mf, ceramic
C84	C-8G-13201	1000 mf, ceramic
C85	C-8G-13201	1000 mf, ceramic
C86	C-8G-13201	1000 mf, ceramic
C87	C-8G-13201	1000 mf, ceramic
C88	C-8G-13201	1000 mf, ceramic
C89	C-8G-13201	1000 mf, ceramic
C90	C-8G-13201	1000 mf, ceramic
C91	C-8G-13201	1000 mf, ceramic
C92	C-8G-13201	1000 mf, ceramic
C93	C-8G-13201	1000 mf, ceramic
C94	C-8G-13201	1000 mf, ceramic
C95	C-8G-13201	1000 mf, ceramic
C96	C-8G-13201	1000 mf, ceramic
C97	C-8G-13201	1000 mf, ceramic
C98	C-8G-13201	1000 mf, ceramic
C99	C-8G-13201	1000 mf, ceramic
C100	C-8G-13201	1000 mf, ceramic

**LOW BAND TRACKING ALIGNMENT PROCEDURE**  
**Visually set trimmers (high band and low band).** (See Figure 7, sketch A.)

**Low band tracking alignment procedure:**

1. Set tuner to top of stroke on low band.
2. Connect an oscilloscope across diode load R38, (contrast control), as shown in figure 5.
3. Connect a sweep generator to the antenna terminals and adjust the generator until a response curve (may vary somewhat from figure 4 at bottom of this page) appears on the oscilloscope screen. The generator should have a balanced output; if it does not, connect it as shown in figure 6.
4. Adjust all cores so they just begin to affect picture on scope (approx. channel 6).
5. Adjust core plate by channel 6 station selector screw so that all core enter coils an additional 3/16".
6. Turn channel 6 picture carrier marker on and adjust low band oscillator trimmer C29, so channel 6 picture carrier marker beats with 26.75 Mc I.F. marker.
7. Adjust low band primary C8, and secondary trimmer C16 so response is maximum and flat, and the appears 50% down edge of response.
8. Switch to each of the other channels on the low band and check the symmetry of the response curve for each switch position. (The sweep generator will have to be reset for each channel.) Use trimmers C8 and C16 to effect a compromise which will give the best overall response across the band. The important thing is that deviations from a flat top be kept to a minimum. This may mean that the response for some channels will have to be improved at the expense of others.
9. Switch to channel 2, apply a 55.25 megacycle signal, and note the position of the marker on the response curve. If the marker can be moved to the 50% point by adjustment of the channel 2 station selector screw (with the screw still at least 2 turns in from its maximum "out" position), the alignment of the low band has been properly completed.



Ref. Symbol	Part No.	Description
C40	C-8G-12198	47 mf, ±10%, ceramic
C41	B-8C-17567	Electrolytic, 200 mf x 200 volts
C42	A-8C-11495	Electrolytic, 20 mf x 150 volts
C43	A-8G-17179	H.V. 500 v.c. I.F. 20,000 volts
C44	A-8G-17221	H.V. 500 mf, 10,000 volts
C45	A-8G-17221	H.V. 500 mf, 10,000 volts
C46	A-8G-17221	H.V. 500 mf, 10,000 volts
C47	A-8G-17221	H.V. 500 mf, 10,000 volts
C48	A-8G-17221	H.V. 500 mf, 10,000 volts
C49	A-8G-17221	H.V. 500 mf, 10,000 volts
C50	A-8G-17221	H.V. 500 mf, 10,000 volts
C51	A-8G-17221	H.V. 500 mf, 10,000 volts
C52	A-8G-17221	H.V. 500 mf, 10,000 volts
C53	A-8G-17221	H.V. 500 mf, 10,000 volts
C54	A-8G-17221	H.V. 500 mf, 10,000 volts
C55	A-8G-17221	H.V. 500 mf, 10,000 volts
C56	A-8G-17221	H.V. 500 mf, 10,000 volts
C57	A-8G-17221	H.V. 500 mf, 10,000 volts
C58	A-8G-17221	H.V. 500 mf, 10,000 volts
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C61	A-8G-17221	H.V. 500 mf, 10,000 volts
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C64	A-8G-17221	H.V. 500 mf, 10,000 volts
C65	A-8G-17221	H.V. 500 mf, 10,000 volts
C66	A-8G-17221	H.V. 500 mf, 10,000 volts
C67	A-8G-17221	H.V. 500 mf, 10,000 volts
C68	A-8G-17221	H.V. 500 mf, 10,000 volts
C69	A-8G-17221	H.V. 500 mf, 10,000 volts
C70	A-8G-17221	H.V. 500 mf, 10,000 volts
C71	A-8G-17221	H.V. 500 mf, 10,000 volts
C72	A-8G-17221	H.V. 500 mf, 10,000 volts
C73	A-8G-17221	H.V. 500 mf, 10,000 volts
C74	A-8G-17221	H.V. 500 mf, 10,000 volts
C75	A-8G-17221	H.V. 500 mf, 10,000 volts
C76	A-8G-17221	H.V. 500 mf, 10,000 volts
C77	A-8G-17221	H.V. 500 mf, 10,000 volts
C78	A-8G-17221	H.V. 500 mf, 10,000 volts
C79	A-8G-17221	H.V. 500 mf, 10,000 volts
C80	A-8G-17221	H.V. 500 mf, 10,000 volts
C81	A-8G-17221	H.V. 500 mf, 10,000 volts
C82	A-8G-17221	H.V. 500 mf, 10,000 volts
C83	A-8G-17221	H.V. 500 mf, 10,000 volts
C84	A-8G-17221	H.V. 500 mf, 10,000 volts
C85	A-8G-17221	H.V. 500 mf, 10,000 volts
C86	A-8G-17221	H.V. 500 mf, 10,000 volts
C87	A-8G-17221	H.V. 500 mf, 10,000 volts
C88	A-8G-17221	H.V. 500 mf, 10,000 volts
C89	A-8G-17221	H.V. 500 mf, 10,000 volts
C90	A-8G-17221	H.V. 500 mf, 10,000 volts
C91	A-8G-17221	H.V. 500 mf, 10,000 volts
C92	A-8G-17221	H.V. 500 mf, 10,000 volts
C93	A-8G-17221	H.V. 500 mf, 10,000 volts
C94	A-8G-17221	H.V. 500 mf, 10,000 volts
C95	A-8G-17221	H.V. 500 mf, 10,000 volts
C96	A-8G-17221	H.V. 500 mf, 10,000 volts
C97	A-8G-17221	H.V. 500 mf, 10,000 volts
C98	A-8G-17221	H.V. 500 mf, 10,000 volts
C99	A-8G-17221	H.V. 500 mf, 10,000 volts
C100	A-8G-17221	H.V. 500 mf, 10,000 volts

**DEFLECTION CHASSIS**

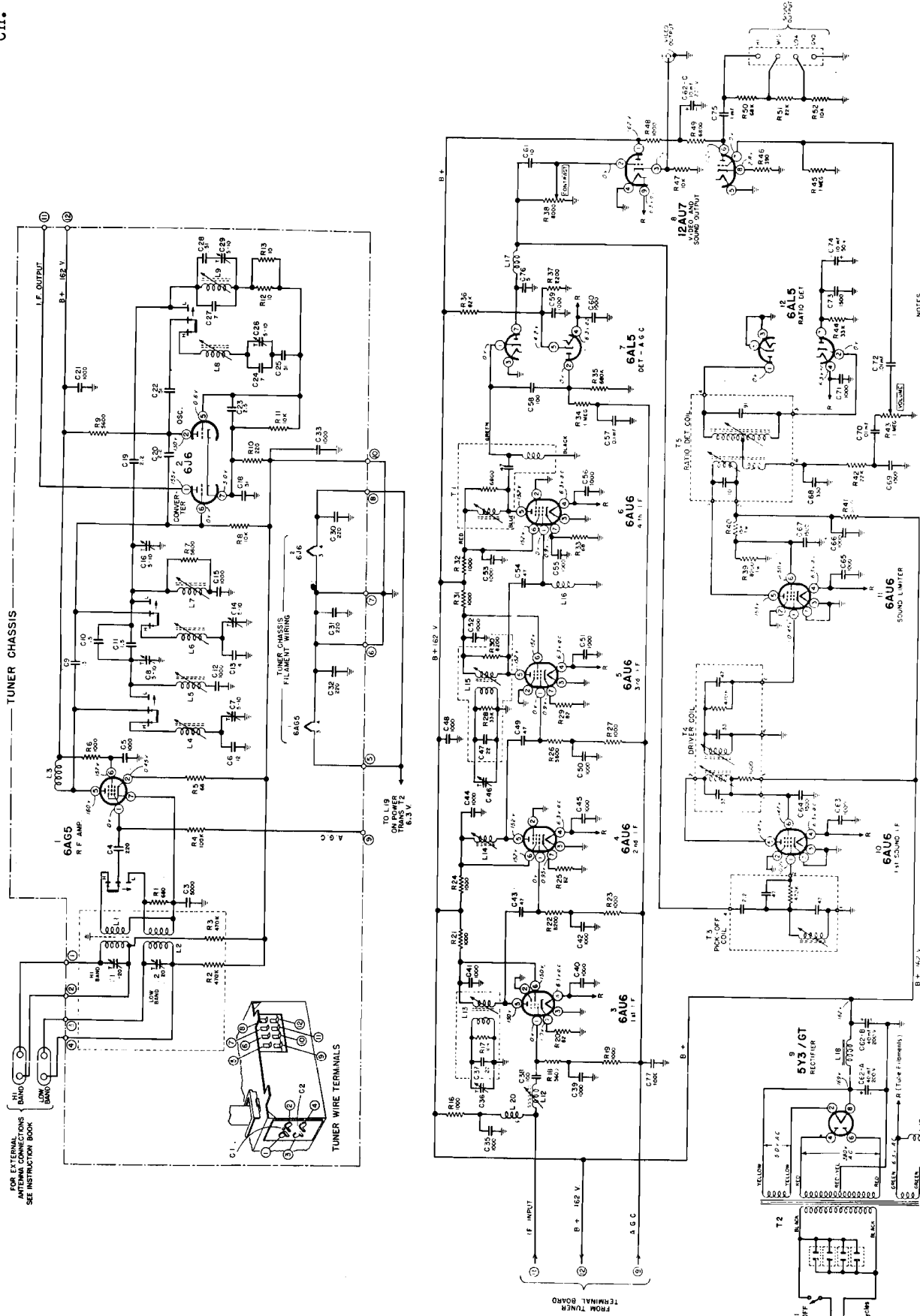
**Capacitors**

Ref. Symbol	Part No.	Description
C1,3,5,20	C-8D-17240	5 mf, 200 volts ±30% —10%, min.
C2, A,B,C,D	B-8C-17570	Electrolytic, 20 mf x 200 volts, 250 mf x 25 volts, 10 mf x 350 volts, .005 mf x 200 volts, ±50% —25%, paper, miniature
C4,28,29,30,36	C-8D-17785	1000 mf, 500 volts, ±10%, mica



MODEL 160-L,  
Ch. 16AXD22

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NOTES:  
VOLTAGE READINGS TAKEN WITH A 5000 OHM-PER-VOLT  
VOLT METER BETWEEN POINTS SHOWN AND CHASSIS  
LINE VOLTAGE 117 V. A.C.  
CAPACITOR VALUES SHOWN IN "MFD" UNLESS  
OTHERWISE SHOWN

Fig. 9. Schematic diagram of Remote Tuner, Chassis Model No. 12AX21.  
(with voltage readings at tube sockets.)

Doc No 2275