

- n. If you are not using a Marker Box, set the Marker Generator Tuning Dial on the 2nd harmonic of 3.58 MC, namely 7.16 MC. The 7.16 MC will beat with the Video Sweep to produce a pip at the 3.58 MC point on the response curve. This method can be used as a check on the accuracy of a Video Marker Box if so desired.
- o. Turn the MARKER OUTPUT Control up until a pip appears on the waveform.
- p. Adjust the 3.58 MC trap, (Point 5 of Figure 7) for a response as shown in Figure 2.
- q. Disconnect the diode probe from the Luminance Amplifier and connect it to the grid (Point 6 of Figure 7) of the "Q" demodulator. This is the Bandpass amplifier check and a properly aligned set should have a response as shown in Figure 3.
- r. If you are not using a Marker Box set the Marker Generator Tuning Dial to the 4.5 MC or 4.1 MC to check these two points of Figure 3. To obtain the 3.58 MC, 2.5 and 2 MC pips, set the Marker Generator Tuning Dial to the 2nd harmonic of the above values, namely 7.16 MC, 5 MC, and 4 MC. This method can be used as a check on the accuracy of the Marker Box if desired.
- s. Turn the MARKER OUTPUT Control up until a pip appears on the waveform.
- t. Adjust the Bandpass Transformer (Point 7 of Figure 7) and the Bandpass Coil (Point 8 of Figure 7) for the response as shown in Figure 3.
- u. Disconnect all gear from the set under test. Turn the TVG-2 PWR Switch to the "OFF" position.

3. "I" and "Q" or "R-Y" and "B-Y" Channel Response Checks.

NOTE: Although these circuits are not adjustable their proper overall operation can be quickly checked by observing their responses. The following procedure although for a set using "I" and "Q" transmission, will in general apply to a set using "R-Y" and "B-Y" transmission.

- a. Perform steps a. through l. of Section 1, above, entitled Black and White Video Amplifier Alignment and Check with the exception of Step i. where the SWEEP MC Switch should be set to the 3 MC position.
- b. Set the Sweep Generator Tuning Dial to the degree marking associated with the 3 MC SWEEP MC position. See the instructions under OPERATION Section B. Obtaining Video Sweep, Steps 1 through 14.
- c. Connect the R.F. OUTPUT Cable to the grid (Point 9 of Figure 7) of the "I" demodulator. If you wish to use a Video Marker Box it may be inserted in series with the R.F. OUTPUT cable at this time. (Use a .5 Mfd isolation condenser when connecting to a point which has a D.C. voltage). A Video Marker Box is recommended for Color T.V. work when checking the "I" and "Q" channels or "R-Y" and "B-Y" channel responses. The procedure for marking the response curve as discussed in Section 2, Color Video, Luminance and Bandpass Amplifier Alignment, Steps n and r is not applicable for checking the .5 MC, 1 MC, and 1.5 MC points of the "I" and "Q" waveforms.
- d. Connect the cathode (Point 10 of Figure 7) of the I Phase "Splitter", through a diode probe to the Vertical input of the oscilloscope.