

- b. Connect the high side of the RF output test lead from TVG-2 through a .01 Mfd. condenser to the grid of the converter tube (Point "A" on Figure 8.) Connect the low side of the RF Output Test Lead to ground.
 - c. Connect the high side of the CRO Vertical Input Test Lead to the high side of the Video Detector Load Resistor (Point "B" on Figure 8) through a 10K ohm resistor. Connect the low side of the CRO Vertical Input Test Lead to ground. (A VTVM may be used in place of the CRO if desired.)
 - d. Set Sweep Generator Switch to OFF position.
 - e. Set Marker Generator Switch to variable position.
 - f. Set Marker generator Range Switch to Band "B".
 - g. Set Marker Dial to 19.75 MC position (Trap frequency.)
 - h. Set Modulation Switch to "ON" position.
 - i. Adjust Attenuator Ratio Switch and Marker Output Control of the TVG-2 along with the Vertical Attenuator and gain control of the CRO to give approximately a 2" Vertical deflection on the CRO.
 - j. Adjust the CRO Horizontal gain control to give the desired horizontal deflection.
 - k. Adjust the slug of the trap winding of the 3rd IF transformer (Point 1 on Figure 8) to give a minimum vertical deflection on the CRO (or a minimum voltage deflection on the VTVM if used in place of the scope). If the output goes to zero readjust the TVG-2 output controls to again give a 2" deflection and readjust the slug to give a minimum deflection.
 - l. Change Marker Dial to 21.25 megacycles and adjust the slug of the Trap winding of the converter stage (Point 2 on Figure 8) to give a minimum vertical deflection on the scope.
 - m. Leaving dial settings the same adjust the slug of the Trap winding of the 4th IF Transformer (Point 3 on Figure 8) to give a minimum vertical deflection on the Scope.
 - n. Change Marker Dial to 27.25 megacycles and adjust the slug of the Trap winding of the 2nd IF Transformer (Point 4 on Figure 8) to give a minimum vertical deflection on the Scope.
3. Alignment of Video IF Transformers.
- a. Using the same procedure as above except changing the frequencies of the Marker Generator to 21.8 megacycles adjust the slug of converter stage (Point 5 on Figure 8) to give maximum Vertical deflection on the scope.
 - b. Change Marker dial to 25.3 megacycles and adjust the slug of the 2nd IF transformer (Point 6 on Figure 8) to give maximum Vertical deflection on the scope. Reduce output of TVG-2 if pattern becomes too large.
 - c. Change Marker dial to 22.3 megacycles and adjust the slug of the 3rd IF transformer (Point 7 on Figure 8) to give maximum Vertical deflection.
 - d. Change Marker dial to 25.2 megacycles and adjust the slug of the 4th IF transformer (Point 8 on Figure 8) to give maximum Vertical deflection.