

7. Set the ATTEN RATIO Switch to the recommended 1K-VIDEO SWEEP position for a linear 30 KC to 5 MC sweep.
8. Set the R.F. OUTPUT Control to the maximum position.
9. Set the SWEEP MC Switch to the sweep width required to show the entire response band of the stage or stages being observed.
10. Turn the Sweep Generator SWEEP Switch to the "ON" position.
11. Set the Sweep Generator RANGE Switch to the "C" Band position.
12. Set the BLANKING-DOUBLE PATTERN Switch to the double pattern position.
13. Turn the Sweep Generator Tuning Dial towards the low frequency end of the dial until a zero beat appears on the oscilloscope. Using the Sweep Generator Tuning Dial set the zero beat in the center of the waveform. This waveform increases in frequency to one-half the SWEEP MC Switch position on either side of the zero beat.
14. Vary the PHASE Control until the pattern coincides as nearly as possible into a single image pattern.
15. Turn R.F. OUTPUT Control to the minimum position.
16. Repeat the above steps a few times for each of the SWEEP MC positions when first learning to use your TVG-2. You will note that the Sweep Generator Dial is marked off in degrees from  $0^{\circ}$  -  $180^{\circ}$ . Tabulate the degree marks at which the Sweep Generator Tuning Dial Indicator is pointing when the zero beat appears in the center of the waveform for each of the SWEEP MC positions.
17. Assuming that you have performed 1 through 14 above, the following steps will in general apply to any test using the Video Sweep.
18. Turn the TVG-2 PWR Switch to the "ON" position.
19. Turn Sweep Generator SWEEP Switch to the "ON" position.
20. Turn Sweep Generator RANGE Switch to the "C" Band.
21. Turn the ATTEN RATIO Switch to the recommended 1K - VIDEO SWEEP position.
22. Turn the R.F. OUTPUT Control to the minimum position.
23. Set the SWEEP MC Switch to the sweep width position required to show the entire response band of the stage or stages being observed.
24. Set the BLANKING-DOUBLE PATTERN Switch to the double pattern position.
25. Set the Sweep Generator Tuning Dial Indicator to the degree marking tabulated in step 16 above, for the particular sweep width selected in Step 21 above.
26. Connect the TVG-2 HORIZONTAL CRO INPUT outlet to the oscilloscope Horizontal Input Terminals. Be sure that the oscilloscope Horizontal Input Control is set to "EXTERNAL #1" so that the 60 cycle sweep from the TVG-2 is used as the horizontal sweep voltage.
27. Connect the R.F. OUTPUT Cable of the TVG-2 to the input of the stage or stages under test. If you wish to use a Video Marker Box (absorption) it may be inserted in series with the R.F. OUTPUT cable at this time.