

## BLACK AND WHITE TRACKING

The purpose of this procedure is to adjust the biases applied to the picture tube to obtain good black and white picture reproduction at all brightness levels while, at the same time achieving maximum useable brightness. Proper RF AGC control adjustment have been verified prior to performing this procedure.

1. With antenna connected to the receiver, tune in picture on a strong received channel. Depress Auto Knob to OFF position. Rotate the color control to maximum CCW position and misadjust the tuning control so that the receiver will not produce a color picture while the following adjustment are being performed.
2. Rotate the red and blue drive control fully CW and then back CCW center of their rotation ranges.
3. Rotate the green, red and blue bias controls to the full CCW end of their rotation.
4. Set normal-service switch to service position. Adjust the voltage of test point (collector of green output transistor on CRT PCB) to DC 90-95V with brightness control. Voltage measurement should be measured with oscilloscope.
5. Rotate the screen control to the full CCW end of its rotation. Then, rotate it CW until a dim line of one pronounced color (green, red or blue) is obtained.
6. The other two color bias controls must be rotated CW until a dim white line is obtained.
7. Set normal-service switch to normal position.
8. If required, touch-up adjustment of the red and blue drive controls to produce a uniform monochrome picture.
9. Rotate the brightness and contrast controls fully CCW.
10. Rotate the brightness control CW until a dim raster is obtained.
11. If the screen does not display good white uniformity, step 2 through 10 this procedure must be repeated.

(CW: clock wise CCW: counter clock wise)