

## CR70 Field Test

### Equipment Needed:

**CR70 UNIVERSAL ADAPTER.**  
**DVM.**

### Setting Up the CR70 for the Field Test:

Connect the **UNIVERSAL ADAPTER** to the CR70. Set the CR70 controls to the following positions: **F1 to 1, F2 to 2, K to 3, G1 to 4, G2 to 5, gun select to R/B&W, and CRT to Video.** Connect a **DC VOLTMETER** to the **UNIVERSAL ADAPTER** with the **POSITIVE** lead to the **G1** lead, and the **GROUND** lead to the **K** lead.

### Remove G1 Short:

Set the **FUNCTION SWITCH** to **REMOVE G1 SHORT**. Press the **REJUV** button. The external **DVM** should read greater than **350 Vdc**.

(common fixes: CR 101, 102, 103, 104 and C101, 102, 103, 104, 105)

### Rejuv:

Set the **FUNCTION SWITCH** to **REJUV**. Press the **REJUV** button. The external **DVM** should read greater than **350Vdc**.

### Auto Restore:

Set the **FUNCTION SWITCH** to **AUTO RESTORE** and the external **DVM** to **DC CURRENT**. Press the **REJUV** button. The CR70 should cycle on and off 3 times. When on, the external **CURRENT METER** should read between **80 and 120 mA DC**.

(common fixes:TR101 and L101 and IC105, 106, or cold solder on restore switch)

### Manual Restore:

Set the **FUNCTION SWITCH** to **MANUAL 1 RESTORE**. Press the **REJUV** button. The external **CURRENT METER** should read between **80 and 120 mA DC** with no cycling. Set the **FUNCTION SWITCH** to **MANUAL 2 RESTORE**. Press the **REJUV** button. The **EXTERNAL CURRENT METER** should read greater than **150 mA DC**.

### Bias Voltages:

Set the **FUNCTION SWITCH** to **CUTOFF**. Set external **DVM** to **DC VOLTS**. As you **SWITCH** through the different **BIAS VOLTAGES** you should read them on the **DVM**. (-68, -52, -36, and -20).

### Cutoff:

Move the **POSITIVE** lead of the **DVM** to the **G2** lead. When the **CUTOFF** control is adjusted, look for a voltage swing of **20 to 400 Vdc**.

(common fixes: R211 and CR101-104 and C101-105 and CR203-208)

### Filament Volts:

Move the **GROUND** lead of the **DVM** to the **F1** lead and the **POSITIVE** lead of the **DVM** to the **F2** lead. You should be able to read the filament voltage on the **DVM**. The reading will depend on what the filament volts are set to on the CR70. **NOTE: IF YOU CR70 IS A RUN 16 OR LOWER, YOU FILAMENT VOLTAGE WILL BE AN AC VOLTAGE.**

(common fixes: IC 201 and TR203-205)