

# **Quick Install Guide: MS9 Series Monitor Sharpness Mod Kit**

## **Neckboard Modification/Install**

1. Remove the Jumper located at J307.
2. Install the .01uf 250v Ceramic Cap in the footprint for C334.
3. Install the 1K ohm 2 watt resistor in footprint R332. Leave this resistor a bit “highwater” when installed rather than flush with the pcb.
4. Install the Gas Discharge Tube (Spark Gap) in the footprint for SG332.

## **Main Chassis Modification/Install**

These following steps are done to a section of the main chassis located near the flyback in the corner.

1. Install the 2.2K ohm 0805 SMD resistor on footprint R517 (underside).
2. Install the 22K ohm 0805 SMD resistor on footprint R518 (underside).
3. Install the Dual Cathode Switching SMD Diode on footprint D506 (underside).
4. Install the 10uf 250v electrolytic capacitor in footprint C521.

Now we need to determine which revision chassis you have. Look on the bottom of the main chassis pcb on the same edge as where you installed the new components. About half way down the side you will find the pins for a connector labeled CN502 and one pin will be labeled G1. You will find one of two options:

1. If the G1 pin has a trace connecting to nearby J404 then all you need to do is install a jumper in the footprint of J404. This will connect the G1 pin to the created negative voltage circuit we created. Your mod is now complete.
2. If the G1 pin is included in/surrounded by the nearby thick ground trace you will need to physically cut the copper trace around the pin until it is no longer making a connection to the thick ground trace. You can use an exacto knife or a dremel (as I do). Use a multi meter to confirm the pin is isolated by using the continuity test and place one lead on the G1 pin and the other on the nearby ground trace. If there is no continuity then you can do the following step.

After confirming the G1 pin is isolated, use the included wire length and solder one end directly to the G1 pin and the other end to the bottom of the NEGATIVE leg of the cap you installed at C251. The positive leg is labeled with a plus side; solder to the other leg. Your mod is now complete.

**After completing the mod you may need to adjust the brightness and re-calibrate your colors.**

**CONGRATULATIONS!!!**

**Your monitor should have the sharpest image of its' life.**

**If you are unsure of any steps then please stop and ASK US!**