

TECHNICAL SERVICE BULLETIN

Component: GS-3-TCA	Serial Numbers: All
Control Number: CC11112019	Date: November, 2019
Subject: GRIDSMART Traditional Camera Grounding Best Practices	

This bulletin provides information related to the proper grounding practices for the GS-3-TCA. Please follow the steps below to ensure the TCA is well grounded and protected against surges and transients.

HYBRID (SMCH) JUNCTION BOX



Ground Meter

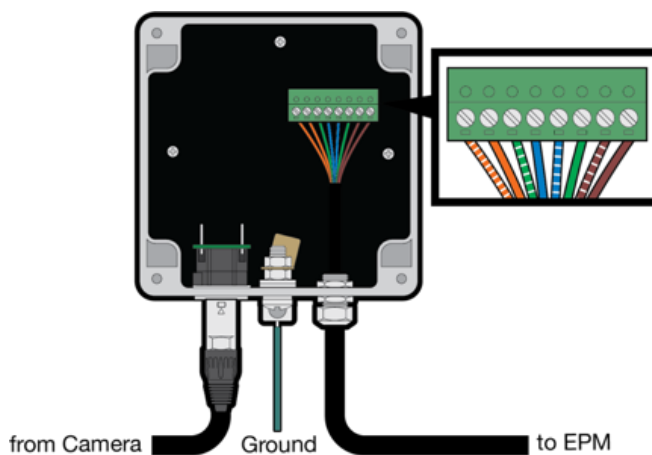


Figure 1

1. Using a ground meter, verify the mounting structure is well grounded by testing the resistance to ground at the ground rod connected to the structure as seen in Figure 1. The resistance to ground should be 25 Ohms or less.
2. Mount the SMCH Junction box to the mounting arm ensuring the cable connections are downward facing.
3. On the right side, feed field CAT5e cable through the metal cable grip.
4. Strip ¼" of insulation from the end of each wire and connect to the terminal block. *Note: The terminal block may be removed by pulling straight out for easier installation.*
5. Reinstall the terminal block on the circuit board. Make sure to line up the pins correctly.
6. Connect the camera to the left side, bottom camera port.

TECHNICAL SERVICE BULLETIN

7. Connect a #10AWG ground wire from the SMCH ground lug seen Figure 1 to the mounting structure. If the structure is powder coated or otherwise does not provide a path to ground, run the #10AWG ground wire from the SMCH ground lug directly to the structure's ground rod.
8. Using an Ohmmeter or Multimeter, verify continuity between the SMCH ground lug and one of the camera enclosure screw heads as seen in Figure 2.



Ohmmeter

ENCLOSURE SCREW HEAD

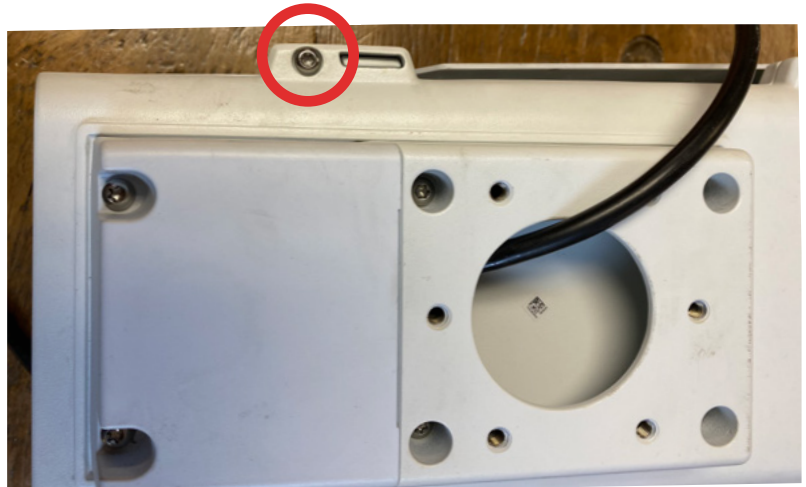


Figure 2

If you have any questions, please contact your local FAE or GRIDSMART Support at 1- 866-652-5347 or Support@GRIDSMART.com.