

# P-6xx Grounding Instructions

Essex Electronics has alerted Farpointe Data, Inc. to a potential problem with their metal keypads that are used in the P-600 Rocky Proximity Reader and Keypad and the P-650 Card + PIN Proximity Reader and Keypad. The metal keypad may be susceptible to static discharges, potentially affecting its performance. While we work with Essex to provide a long-term solution, we recommend the following steps be performed to ensure a solid ground is connected between the metal keypad and earth ground.

1. At the upper Reader/Keypad mounting hole, insert a soft metal washer (a #8 Split Ring Washer and a #8 External Lock Washer) between the head of the mounting screw and the body of the Reader/Keypad (see Figure 1).

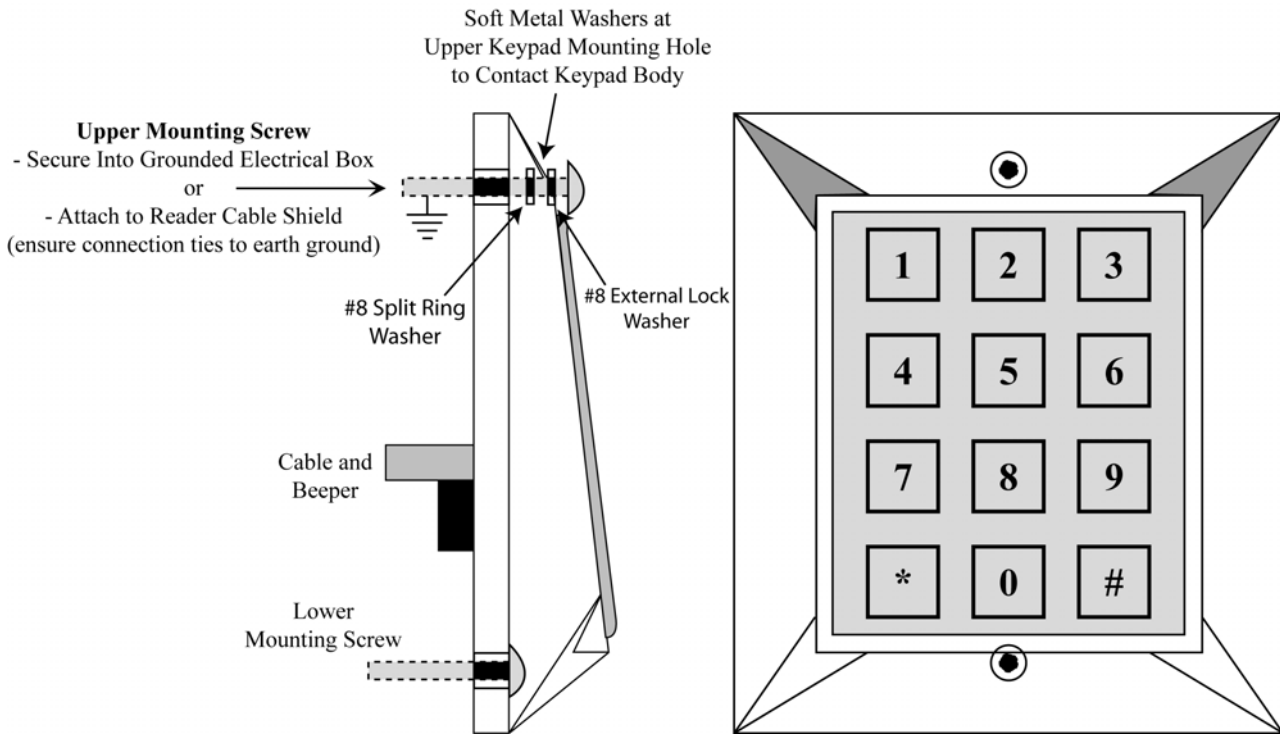
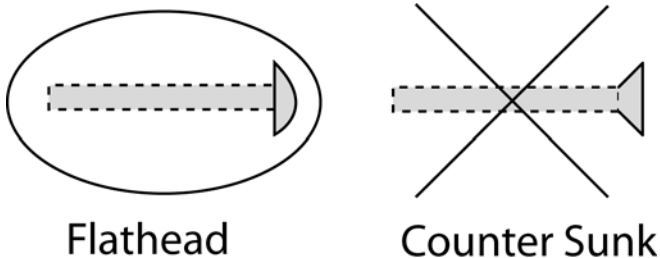


Figure 1: Soft Metal Washer Location

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2. Make sure the external lock washer does not get pushed through the upper hole, but maintains constant contact with the faceplate. Farpointe Data, Inc. recommends using a Flathead screw instead of the Counter Sunk screw for the upper mounting hole as the Counter Sunk screw may push the external washer too far into the mounting hole.



**Figure 2: Correct Screw For Upper Mounting Hole**

3. If the mounting screw is secured into a grounded electrical box, simply tighten the screw and a ground connection is made.

– OR –

If the mounting screw is secured into an ungrounded mounting location, a wire must be attached from the shield of the Reader/Keypad cable to the mounting screw to provide the ground connection.

4. Perform a continuity test between the keypad faceplate and the earth ground.
5. Once the ground connection is made, the Reader/Keypad can be put back into operation.