

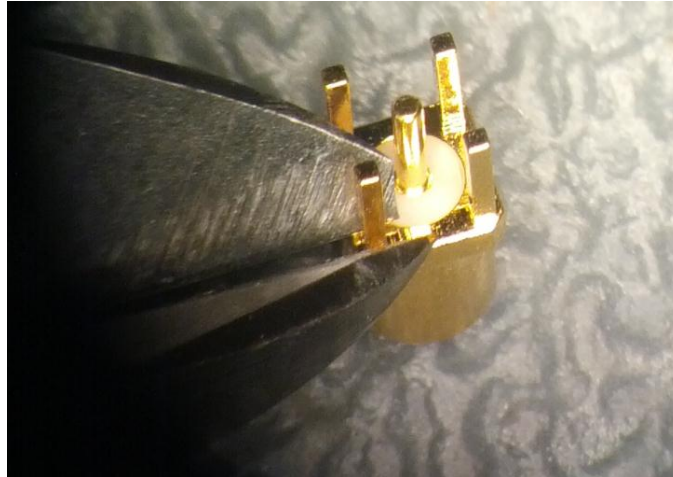
Wheel Antenna PCB - MMCX Connector Installation Procedure

Document Number: WAC-20130303-1

Critical Note: Do NOT get solder in or near the two tiny via holes in the Wheel PCB ground ring area! The tiny holes are a critical part of the antenna design.

Step 1: Snip connector ground leads

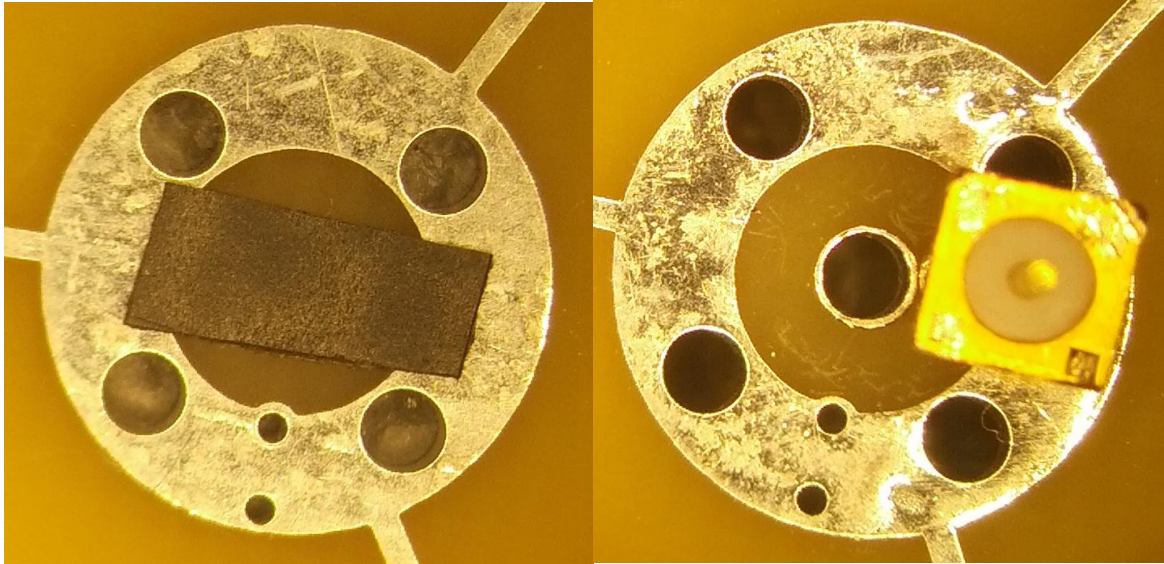
Use a pair of fine tip wire snips to trim off the outer four ground leads. After all four are snipped off, then re-inspect each to ensure they are snipped flush.

**Step 2: Mount connector and solder center pin**

NEW: Add a piece of electrical tape ! See picture

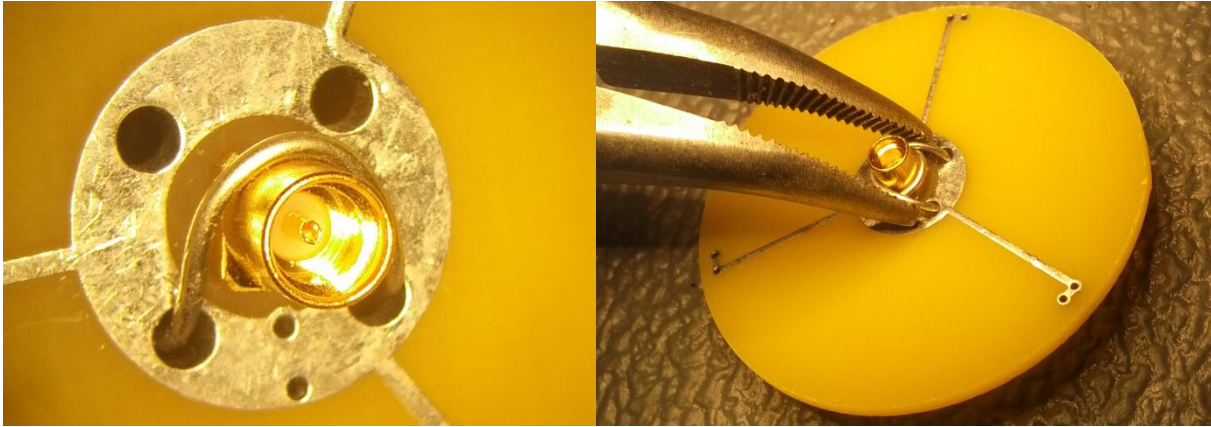
Note: Once the center pin is soldered to the wheel, the connector body will spin to realign it. (Do NOT try to plug in the RF cable yet!)

1. Mount the connector on the side of the PC board as shown. Then turn over and place on a table surface
2. Center the pin in the hole and apply solder. Do NOT favor the pin hole side where the two tiny via holes are located; make sure to keep those two holes free of solder
3. After soldering, spin the connector body to realign as shown. The connector edge must be clear of the two tiny via holes in the ground ring area



Step 3: Lash connector body to the Wheel PCB

1. Using bare solid wire (typically 30ga), lash the connector to the Wheel PCB as shown. Tack solder to hold in place. **Make sure to start the first wire lash on the opposite side from where the two tiny via holes are located**
2. Make a second wire-lash as shown.



Step 4: Solder wire-lashing to the connector body

1. Reapply solder where needed to the wire lashing holes in the Wheel PCB
2. Solder the wire lashing where they cross to the connector body
3. Do NOT get solder in or near the two tiny via holes!

