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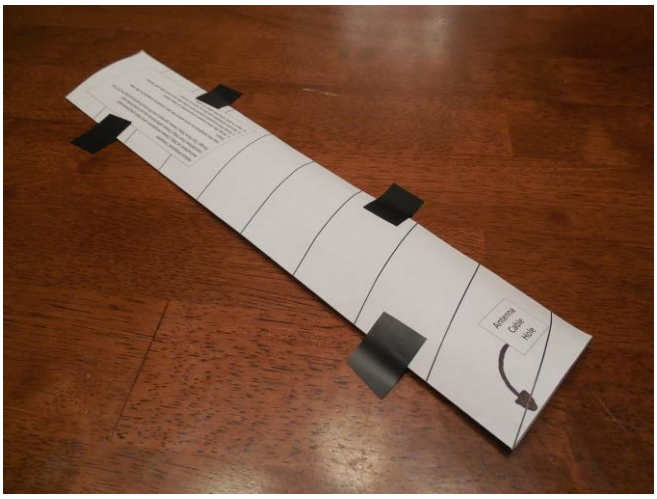
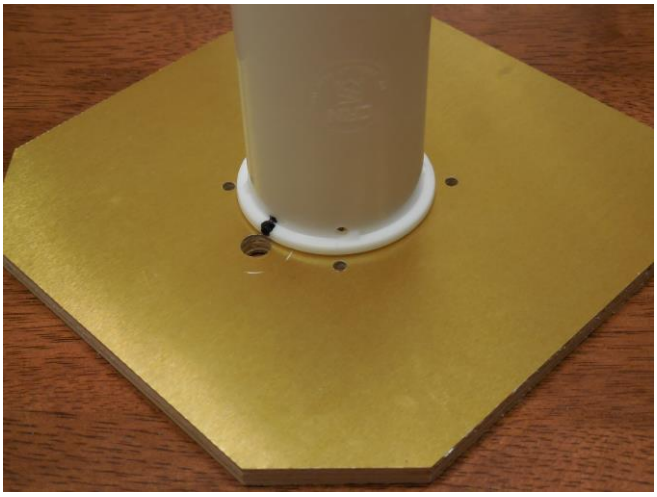
| The kit includes the following items:<br><br>- 1 long length of PCV tube<br>- 1 small length of PCV tube (not pictured)<br>- 1 Wooden base with a metal face<br>- 1 Antenna wire with RP-SMA connectors<br>- 1 Length of copper wire<br>- 1 Small copper rectangle<br>- 4 Zip ties |  |
| Take the paper wire guide and place a few sections of tape on the sides. |  |
| Align the tube so that the small holes line up with the holes on the bard.<br><br>Put a mark on the tube to indicate the location of the antenna hole. |  |

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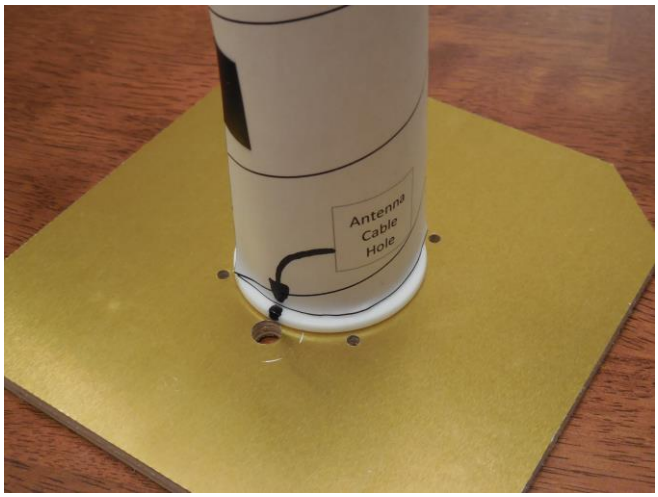
| Place the paper guide on the tube and align the antenna cable hole mark with the mark you made on the tube. |  |
| Use a marker to place a dot along both sides of the paper guide on the lines.<br><br>Remove the paper guide when you are finished. |  |
| Strip the outer casing off of the copper wire. |  |

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| Wrap the copper wire around the small tube in order to achieve a tight coil. |  |
| Align the copper wire along the dots you placed on the tube in a previous step. Use small pieces of tape to keep the wire in place. |  |
| After the wire is aligned with all the dots, wrap tape around the wire to secure it to the tube. |  |

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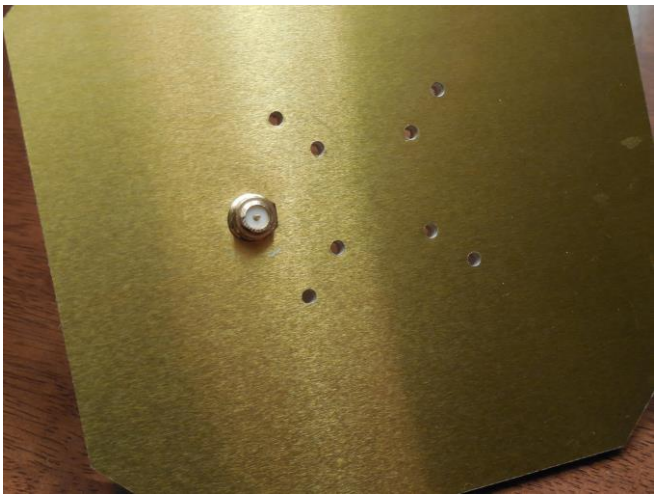
| Pro Tip:<br>Cut small slits in the top section of tape before folding it over. |  |
| Pro Tip:<br>Fold each of the parts over to the inside of the tube. |  |
| Remove the nut from wire. Place the wire through the antenna wire hole on the board and secure it in place with the nut. |  |

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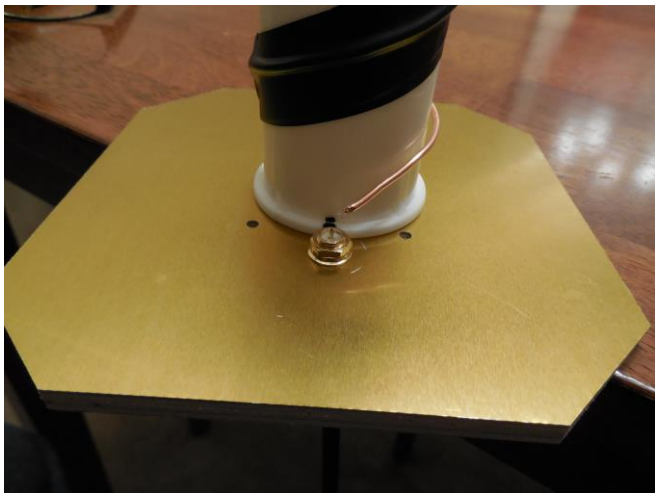
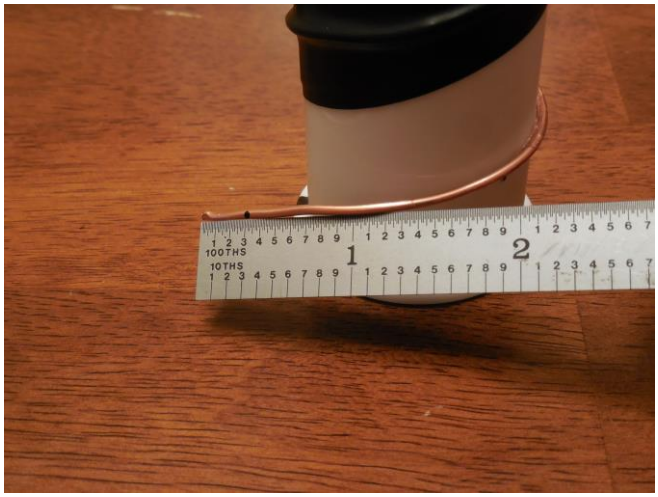
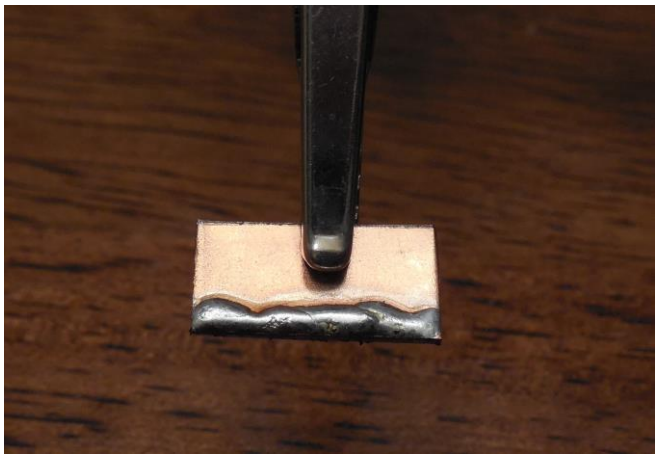
| Place the tube on the board to check the alignment of the copper wire with the antenna wire. You may need to trim the wire slightly. |  |
| Measure 8mm from the end of the wire and make a mark. |  |
| Take the small section of copper and apply solder along one edge. |  |

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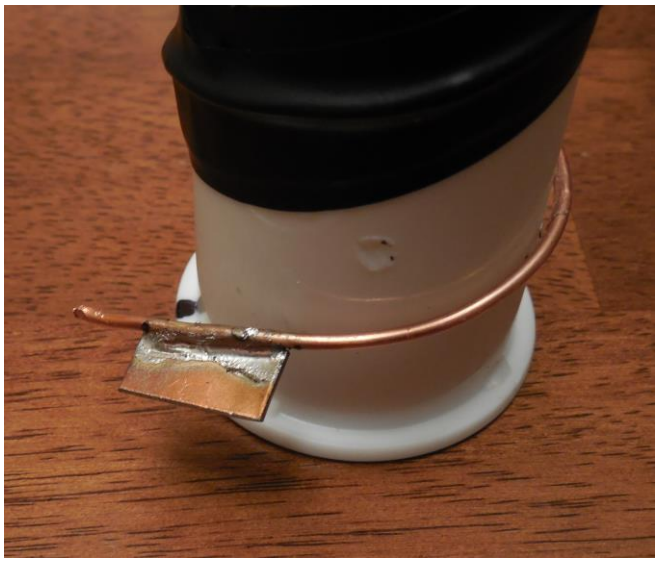
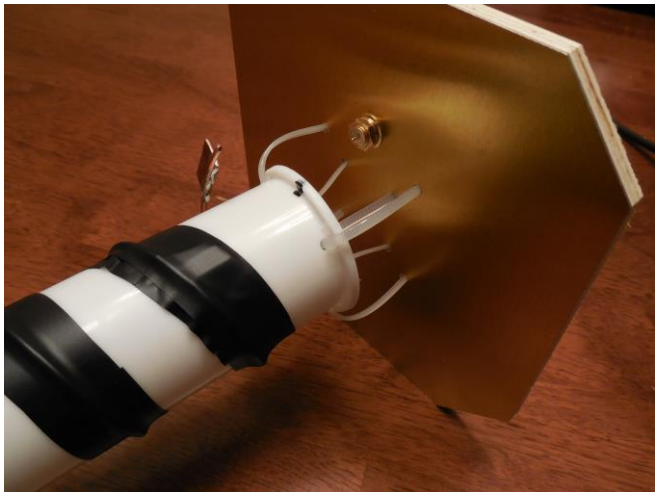
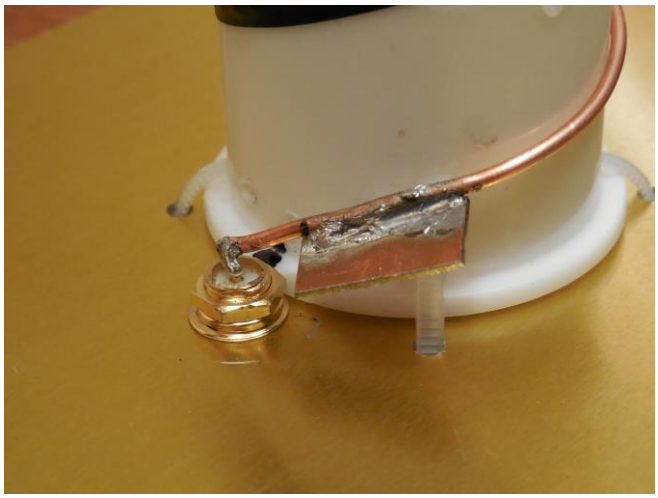
| Align the section of copper with the mark on the tube. Solder the two together. |  |
| Run the four zip ties through the holes on the board and the tube to secure them together. |  |
| Solder the copper wire to the middle section of the antenna wire. Be sure to not solder to the outside ring. |  |