

Garmin nüvi 2797 Modification Instructions

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Thank you for purchasing this product! We hope it brings you many years of reliable service.

We want to acknowledge the work **Greg Rice** did to facilitate this design. If you ever run into him, please relay our gratitude.

Here's what you'll need to perform this modification:

1. Size T6, Torx bit
2. 2 each, approximately 1 mm thick, plastic edged tool (I used guitar picks)
3. Wire cutter
4. Wire stripper
5. Super glue
6. 2" x 1/2" (approx) tape; any kind.
7. Low wattage (15W) soldering iron and rosin core solder
5. Heat gun (or butane lighter)
6. 5/16" drill bit (Step-up style *Unibit* preferred)
7. Center punch
8. Sharp edged tool (X-acto knife or equivalent)

If you will be mounting the nüvi into a ram mount enclosure, you will also need:

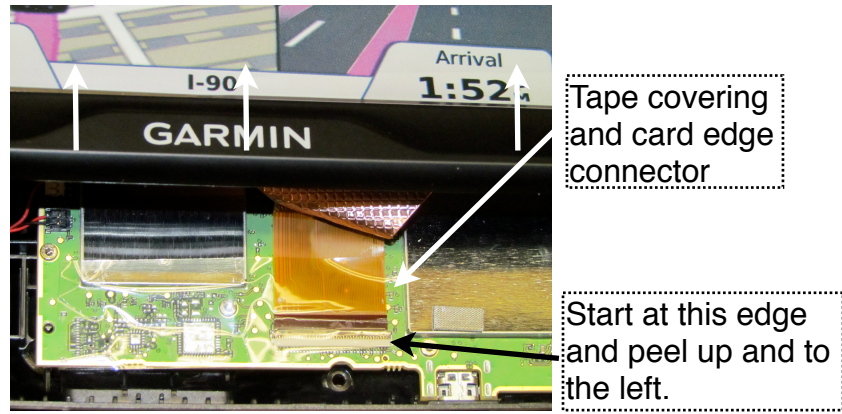
1. 1/2" drill bit

Do not perform this modification if you are color-blind.

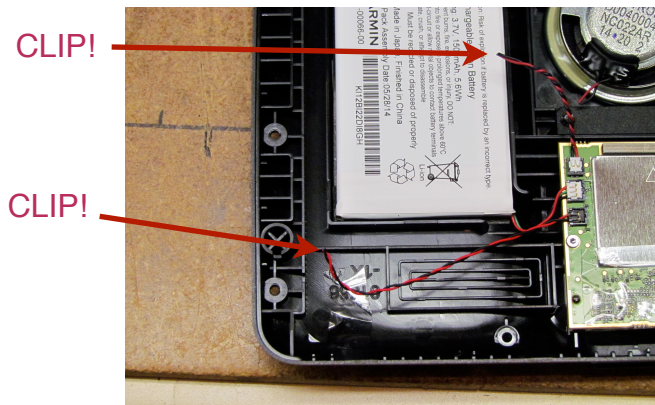
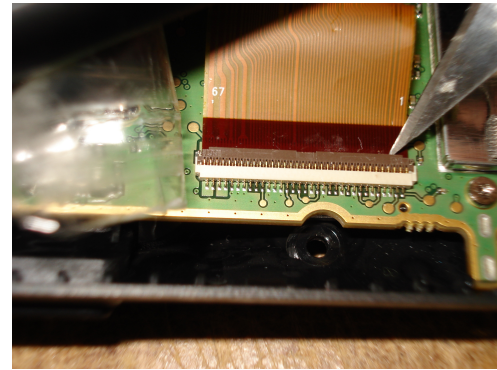
Ready? Here we go...

1. Using the T6 Torx bit, remove the dozen or so screws that attach the back and front halves.
2. Using the 1 mm plastic edged tool, begin unsnapping the bottom and top halves. Start at the middle of the bottom of the case. When you get the first 1 mm edge between the case halves, leave it in place and use the second plastic edged tool to crack the case a few inches to the right. Leave it in place, and use the first tool to crack the case a few inches to the right of the previous one. Continue doing this until you have the case halves separated. **DO NOT PULL THEM APART!**

3. Turn the nüvi over and gently scoot the top half upward so that the ribbon cable that attaches the screen (mounted to the top half) to the circuit board (bottom half) card edge connector is visible. Notice that the ribbon cable is covered with clear plastic tape.

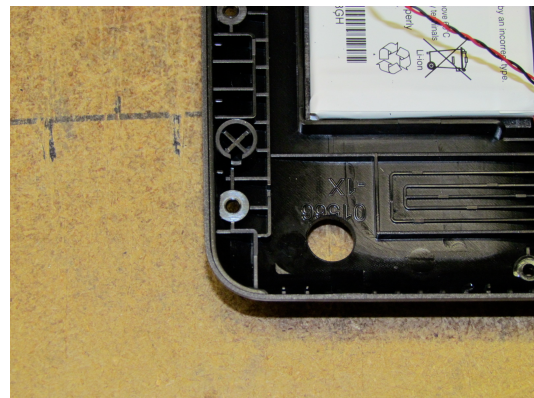


4. Gently peel back the plastic tape and lift the ribbon cable connector's brown latch. Slide the ribbon cable forward and away from the connector and the display will be free from the circuit board. Set the top half aside.

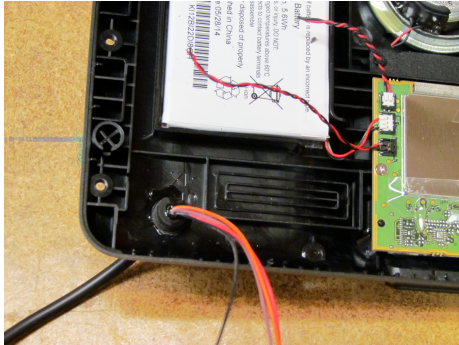
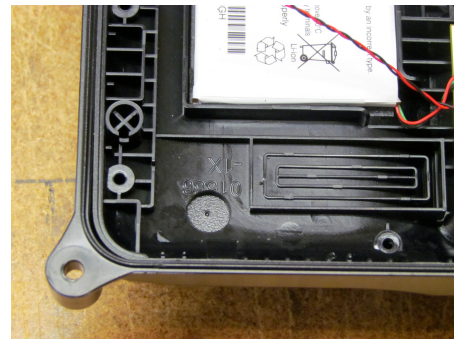


5. Locate the microphone and speaker leads. Each pair is a twisted pair of black and red wires.
6. Clip both pairs about **midway** from their terminating device (i.e. speaker and mic). Don't worry about voiding the warranty; that happened when you opened the chassis.

7. Use a center punch to mark the back half of the chassis and at the approximate location shown.
8. Use your 5/16" drill bit to make a hole for the Kennedy pigtail grommet



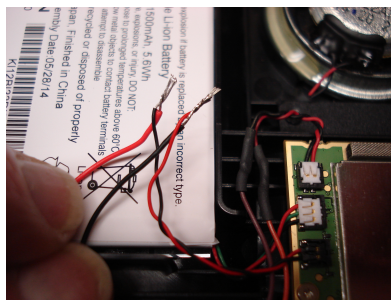
9. If you will be using a *Ram Mount*, insert the back half of the GPS into the back half of the *Ram Mount* and mark the center.
10. Remove the GPS back half from the *Ram Mount* and drill a 1/2" hole into the *Ram Mount* back half.



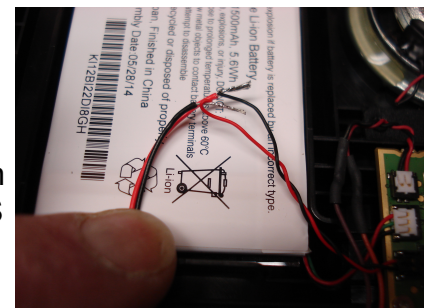
11. Insert the Kennedy pigtail grommet into the GPS back half as shown and apply some super glue. Before the glue dries, twist the grommet in the hole so that glue gets smeared around the circumference.
12. Set the GPS back half aside while the glue dries

13. After the glue is completely dry, get your soldering iron warmed up.
14. **Gently** strip approximately 1/2" of insulation from the red and black wires that were - before you cut them - going to the speaker and mic.
15. Remove the protective retaining tape from the Kennedy pigtail.

16. Twist the Kennedy plug pigtail **red** wire to the mic pair's **black** wire. Apply solder
17. Twist the Kennedy plug pigtail **black** wire to the mic pair's **red** wire. Solder
18. Twist the Kennedy plug pigtail **violet** wire to the speaker pair's **black** wire. Solder.
19. Twist the Kennedy plug pigtail **orange** wire to the speaker pair's **red** wire. Solder.

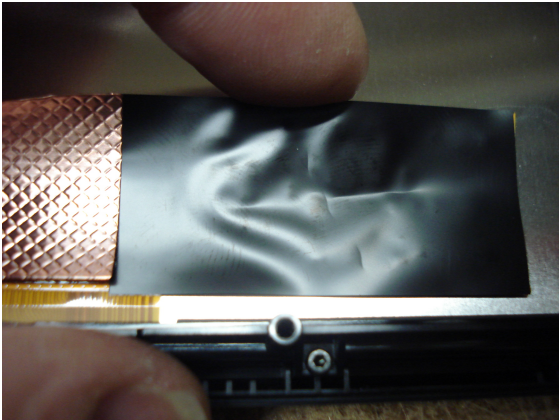


20. Bend the solder joints in the direction of the GPS wire pair.



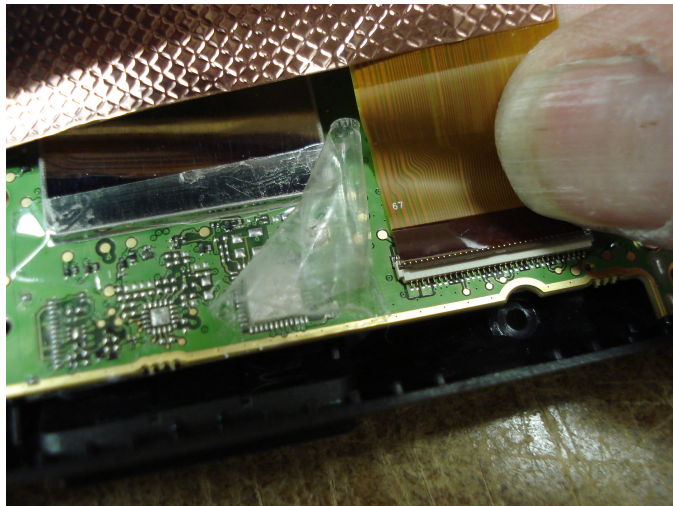
21. Bring the heat shrink tubing that is installed on the Kennedy pigtail leads up over the splices.
22. Apply heat to the heat shrink. If you use a butane lighter, try not to let the flame get near the wire pairs of the GPS, or you'll damage the insulation.

23. Wad the wire pairs up and tape them down into place.



24. Retrieve the top half of the GPS.
25. Gently pull the ribbon cable assembly away from the display.

26. Place the top half of the GPS above the bottom half and offset it enough so that the ribbon cable and circuit board connector are visible.
27. Insert the ribbon cable into the connector, and fold the brown connector cover over until you feel a slight “click”.



28. Snap the two halves of the GPS back together and replace the Torx screws you removed in step 1.
29. Mount the nüvi to your bike and connect P1 to the jack you installed on it. Route the harness to the Kennedy interface module and connect P2 and P3 to it.

