

MyPal Scout/Violet – Switch Adaptation

Original instructions by Bill Binko from ATMakers (ATMakers.org)

1. Open the package carefully to unveil the internal battery case.



2. Remove the case from the package but don't cut the zip tie attaching Violet/Scout to the box. Take out the three AA batteries and set them aside.



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3. Near the bottom of the case by the printed “Item No.”, carefully tear the fabric **by 1cm** to expose the zip tie underneath. Cut off the zip tie knot to release the casing from the fabric..



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4. Open the case by unscrewing the 4 screws holding it together. This will expose the internal circuit board.



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5. Prepare the ethernet cable by snipping off the ethernet connectors. You'll need about 2ft of cable.



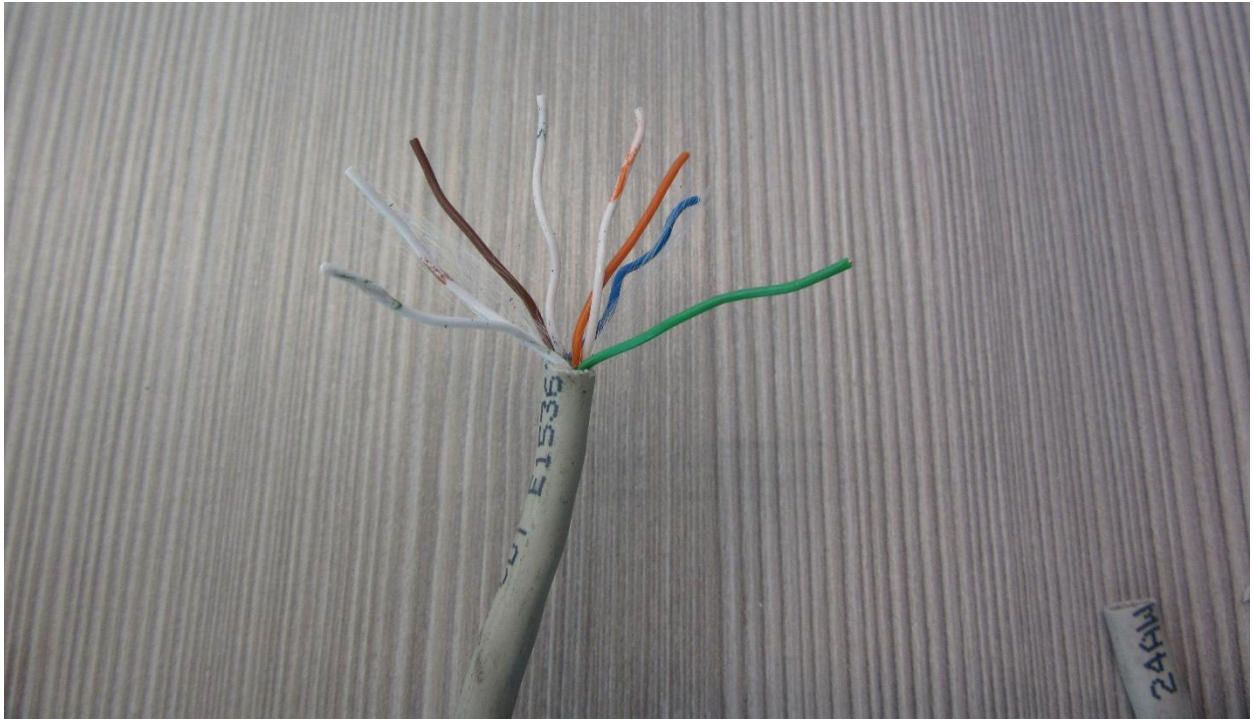
6. On one end, cut off the outer casing holding the 8 wires inside by **4cm** and by **8cm** on the opposite end.



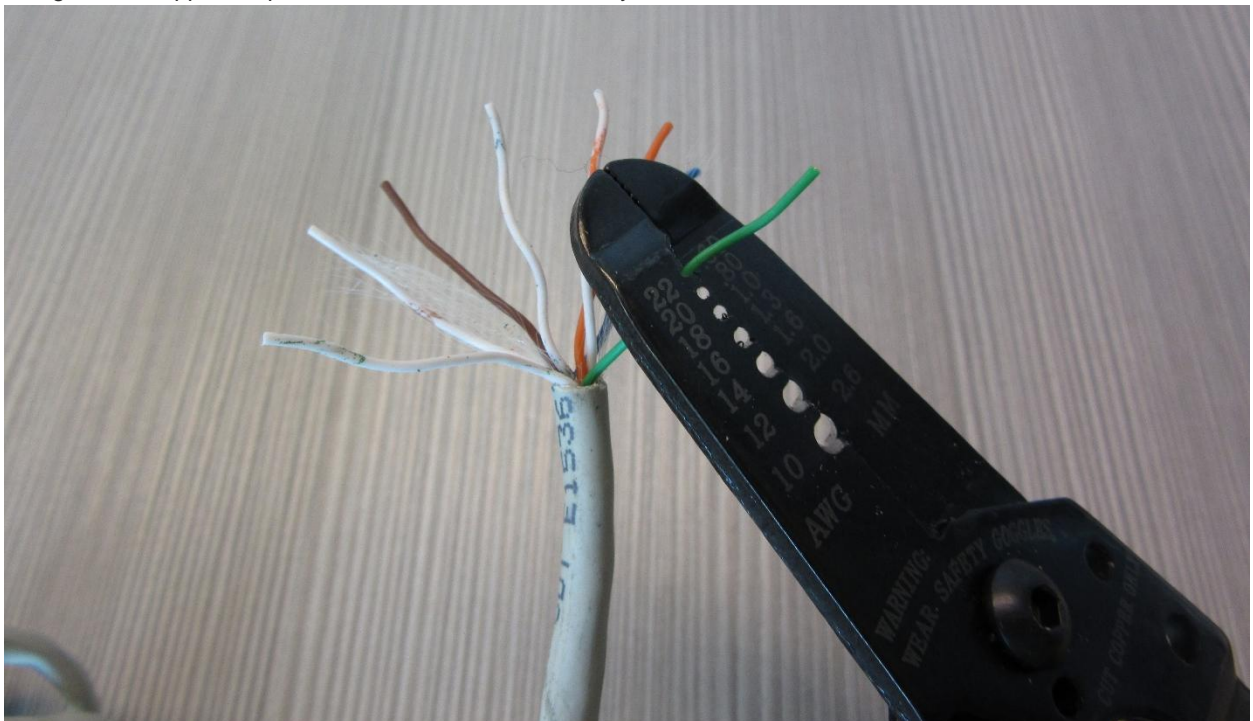
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7. Unravel the 8 twisted wires on both ends.



8. Using a wire stripper, strip each wire on both cable ends by 1cm.



9. Tin all the exposed wire ends with solder.

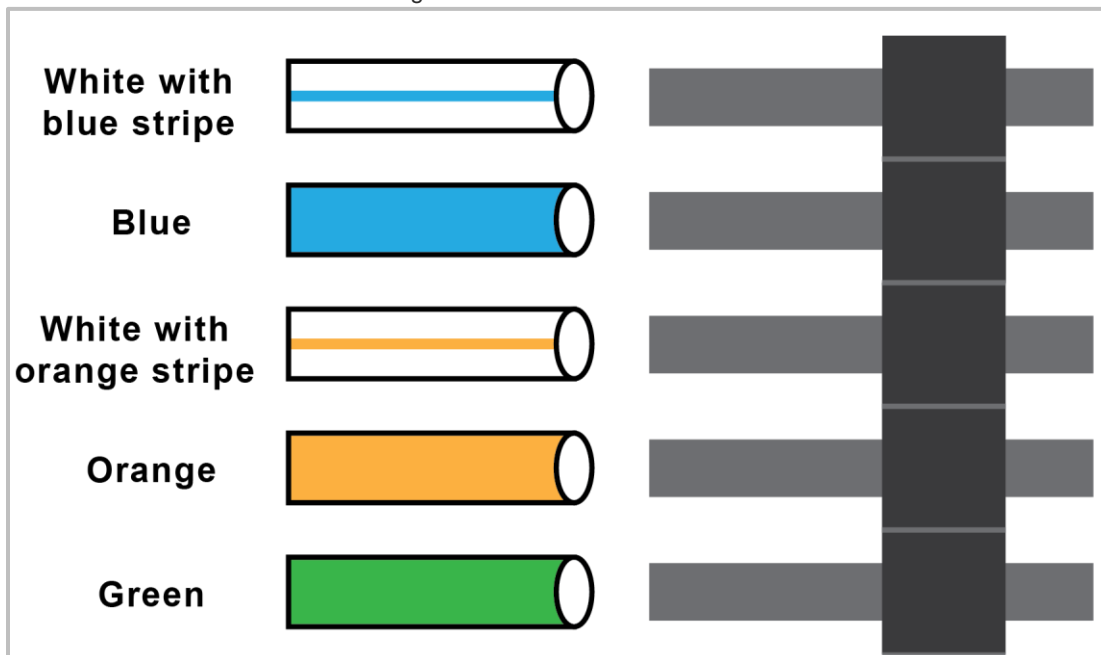
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10. Tin the long leads on the 5 male headers.



11. Solder the correct coloured wire to long end of the male header.



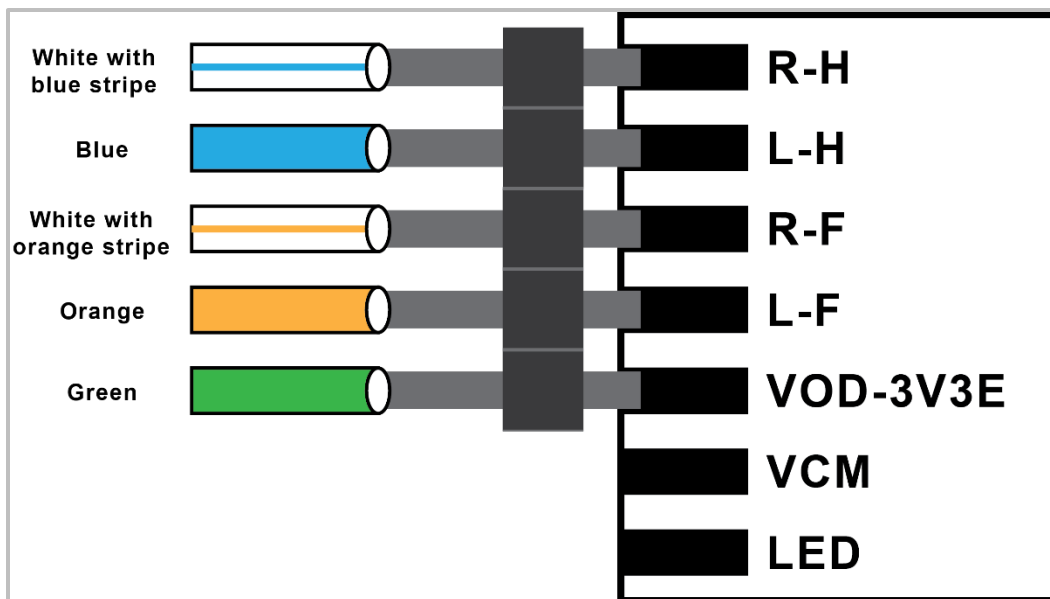
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12. Place the ethernet cable through the rectangular hole on the casing with the **shorter exposed ethernet cable end** first.



13. Solder the **short leads** on the 5 male headers to the circuit board.



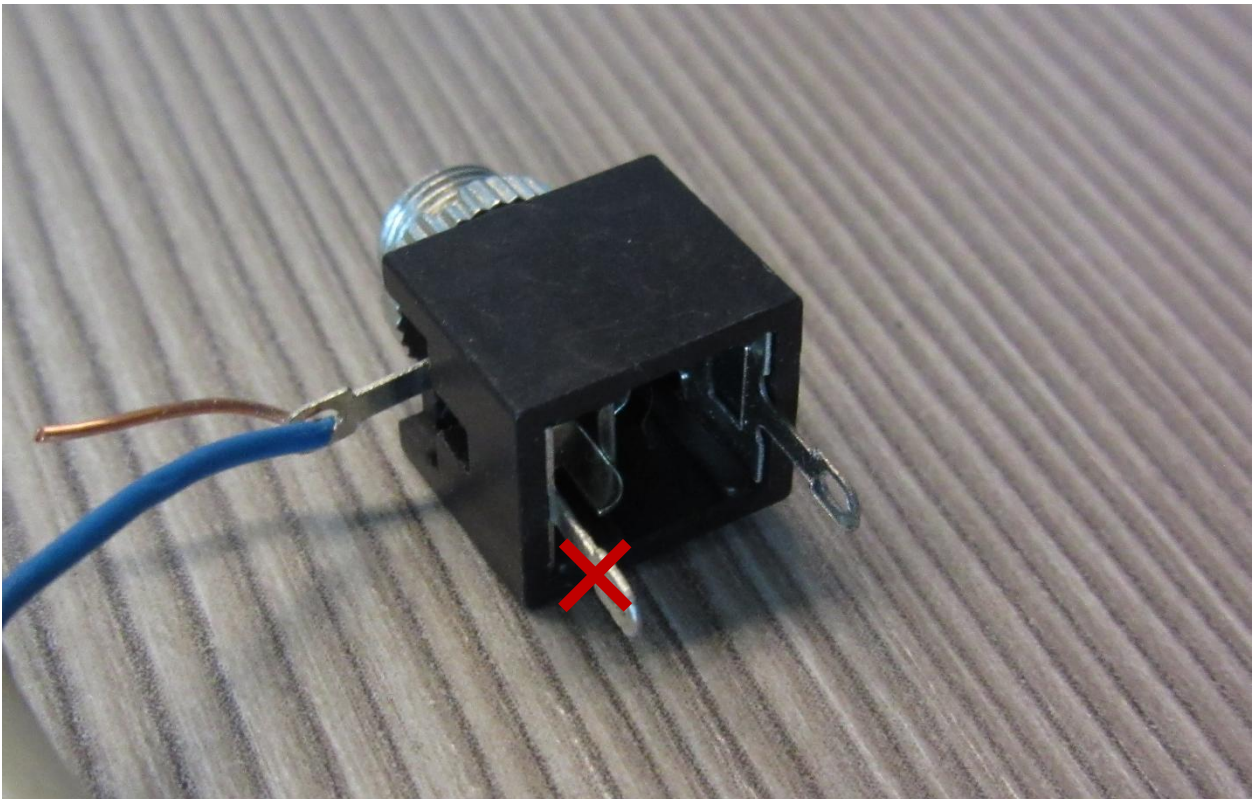
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14. Place the outer battery case back in place and reinsert the four screws holding it together.
15. Place the plastic cover back over the wires and ethernet cable.



16. On the opposite end of the ethernet cable, attach each of the **5 coloured wires used in Step 10** to the “sleeve” on the mono jack. Snip off the connector marked with the red X on all 5 mono jacks.



17. Solder these 5 connection points.

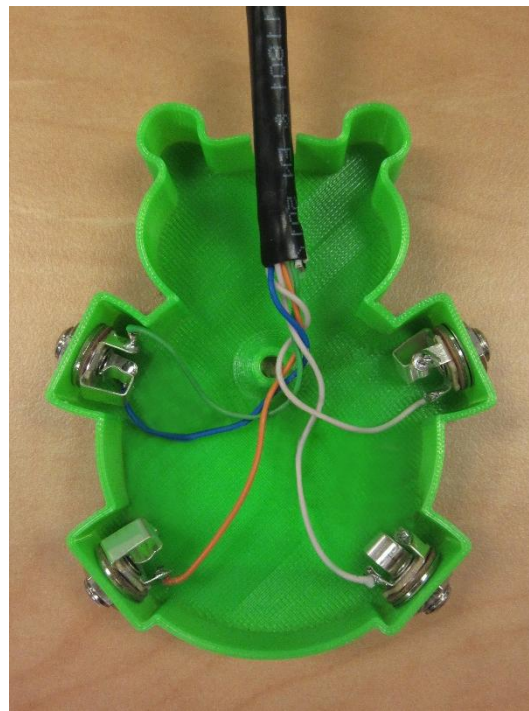
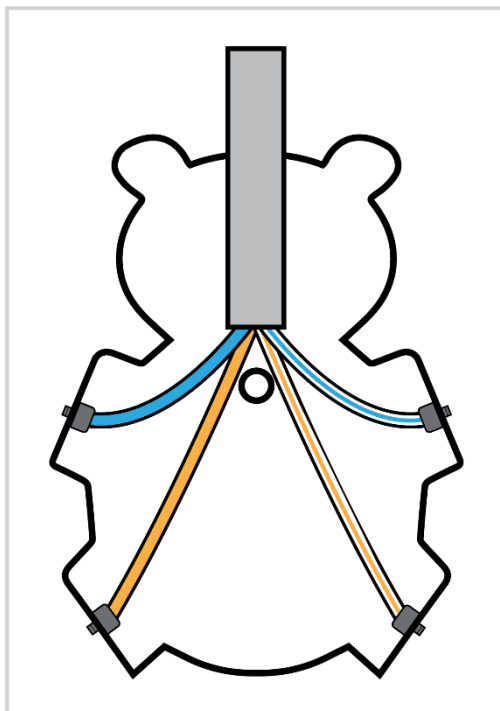
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18. Remove the ring on the 5 mono jacks and set aside.



19. With the flat side of the 3D printed bear case **facing down**, insert the mono jacks to the corresponding paw or leg as depicted below. Insert the mono jack with the white wire with blue stripe to the right paw; blue wire to the left paw, white wire with orange stripe to the right leg, and the orange wire to the left leg.

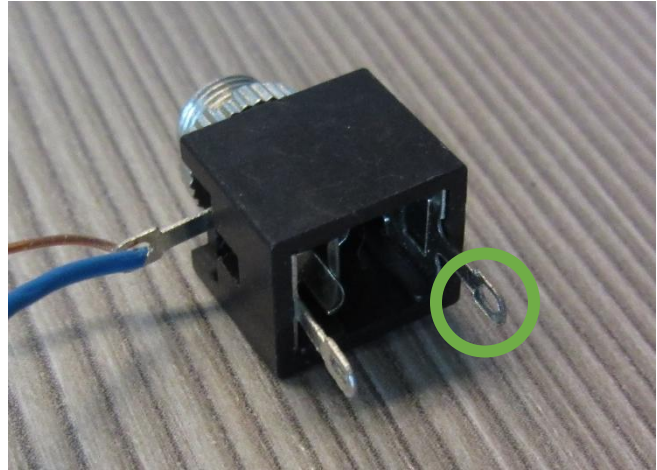
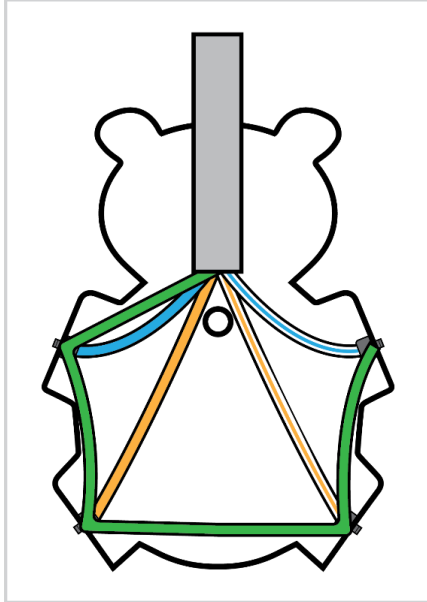


15. Screw the ring back on the mono jack from the outside of the bear casing to keep it in place.

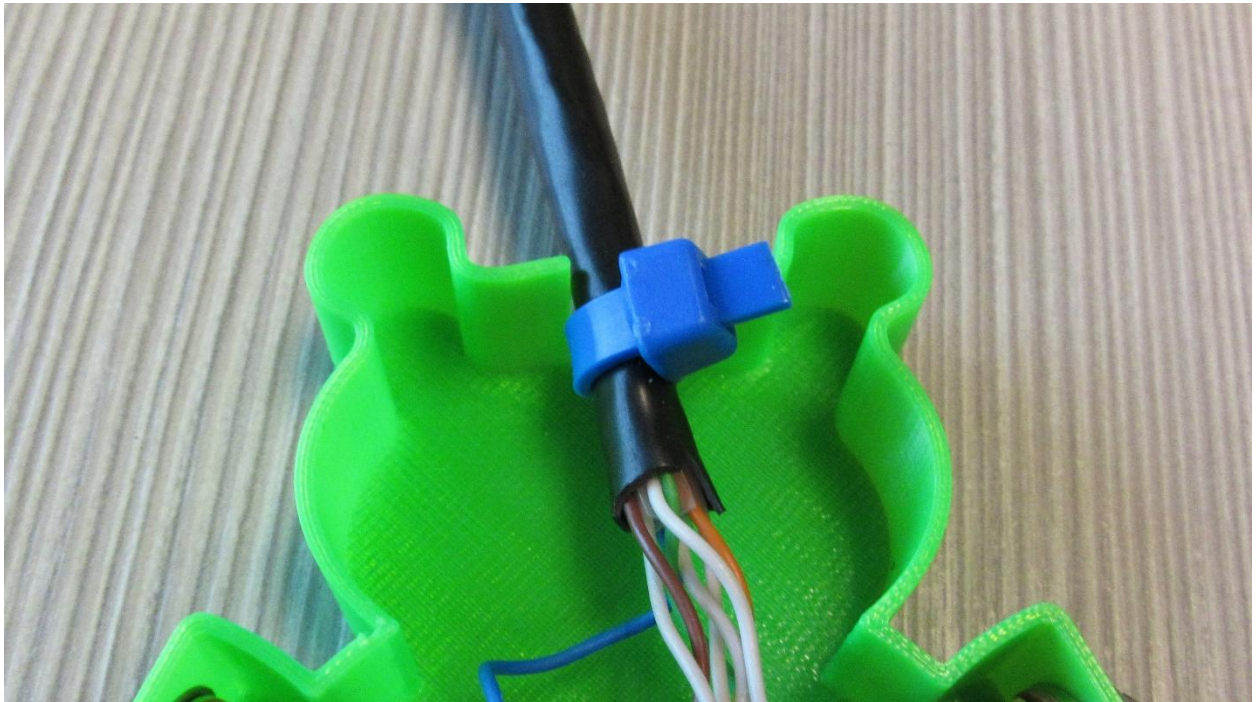
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16. Insert the end of the green wire through the “tip” of the mono jack for the left paw (marked in the green circle). Using three 22AWG wires, connect the tip on the left paw to the left leg, left leg to the right leg, and finally the right leg to the right paw.



17. Solder all the “tips” on each mono jack.
18. Attach a zip tie to the ethernet cable for strain relief.



19. Cover the case with the 3D printed bear lid.

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20. Insert the screw on the back of the bear case to keep it together.



21. Insert the three AA batteries back into the battery case.
22. Test the toy adaptation by plugging in a switch.