

The Ultimate Mouse Trap!



Tools needed: small Philips screwdriver, solder, soldering iron, wire stripper/cutter, plastic glue.

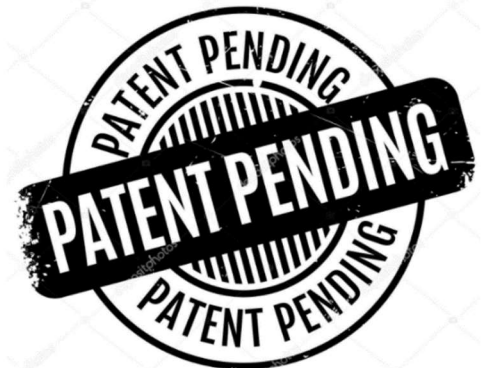
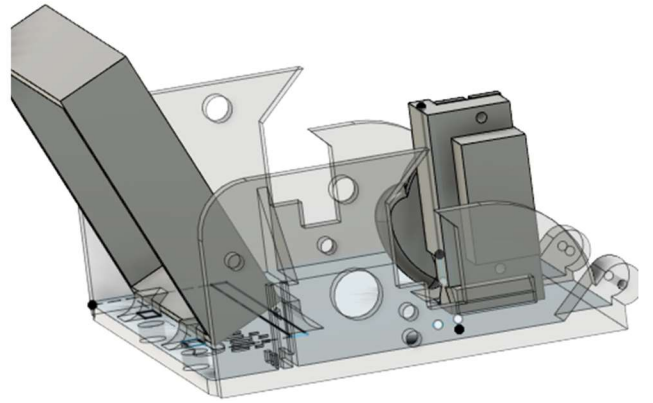
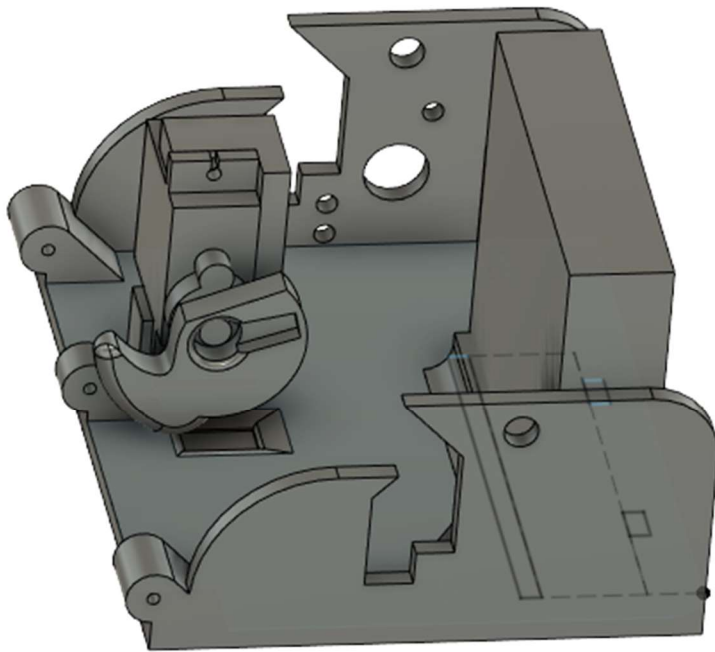
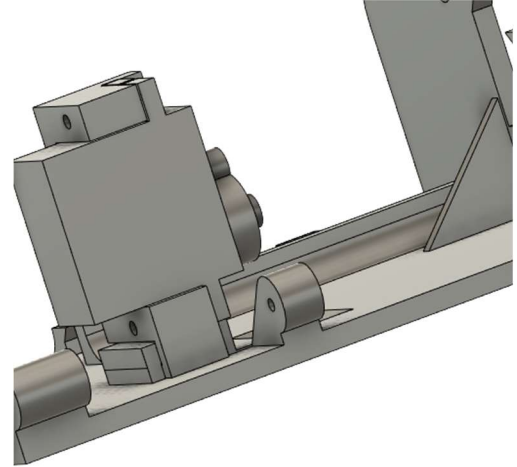
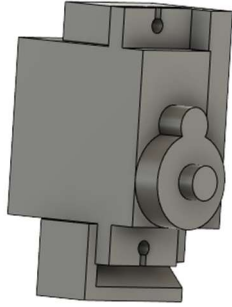
Soldering everything together first seems to work best.

- Solder the 3 wires to the sensor (Red=Vcc(left), Black=GND (right), Yel or Blu or Grn=i/o(middle). Wires should be on the circuitry side of the sensor. The side with the white circle is the top side that senses the mouse.
- Solder the other end of these wires to the printed circuit board (PCB). I/O wire to the solder pad mark "S", Red wire to the next pad to the right marked "+".
- Solder the red wire of the battery holder to the Power input on the PCB which is the second to last solder pad from the right marked "+". Solder the black wire of the battery holder and the black wire from the sensor to the GND input on the PCB which is the last solder pad from the right marked "-".
- Connect the servo motor to the servo motor mount and screw down with the 2 longer screws. Then slide the servo mount into the holder on the base of the main body of the trap.
- Align the flap with the main body and push the wire rod through the holes to connect the flap to the main body and create the hinge point.
- Put the sensor into the rectangle on the end of the flap of the trap and glue the corners on the bottom side of the flap. Do not get any glue on the top which could mess with the sensor. After it has dried, push the wires into the wire holders on the flap and put a small touch of glue to hold them in.
- The bottom of the sensor can be covered with liquid tape to water proof it. Do this if water will be used in the bucket to dispatch your catch. Also put some liquid tape along the top edges of the sensor to prevent any rodent pee from seeping down into the electronics and frying the sensor.
- Take the small white plastic servo shaft bracket and push it into the cam (fits very tight). Trim off the end that overhangs the cam.
- Plug the servo connector onto the PCB with the Orange wire to the left side and the Brown wire to the right side. (top pin closest to the board edge)
- Put the batteries in (the flat side of the battery (-) goes to the spring side of each battery slot) and test that it functions. After the servo stops in the flap up position, remove 1 battery. Push the servo cam onto the shaft of the servo with the upper lip just at the top of the flap lifter(dog) on the flap then screw the small screw into the shaft of the servo motor.
- Mount the battery holder to the main body. Slide the open side with wires on the top into the slots on the bottom near the back side of the main body. Then rotate it straight so it is perpendicular to the floor on the main body. It should snap in place. If it comes loose, a little glue can be applied to hold it in place.
- Put the PCB into the slot on the main body. It should hold fine but if it falls out, glue it in place.
- Wire tie the wires to the side thru the two holes by the pcb slot holder. Put the battery back in and catch a bucket full of mice!!! Installing batteries incorrectly could result in damage to the circuitry. The flat bottom of each battery (-) goes to the spring side of each battery slot.

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Note: It is highly recommended to cover the sensor circuitry with liquid tape or silicon and the 3 solder points on the sensing side of the sensor to prevent corrosion from water or humidity. If you have any questions, feel free to email us at: buhlermousetrap@gmail.com



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