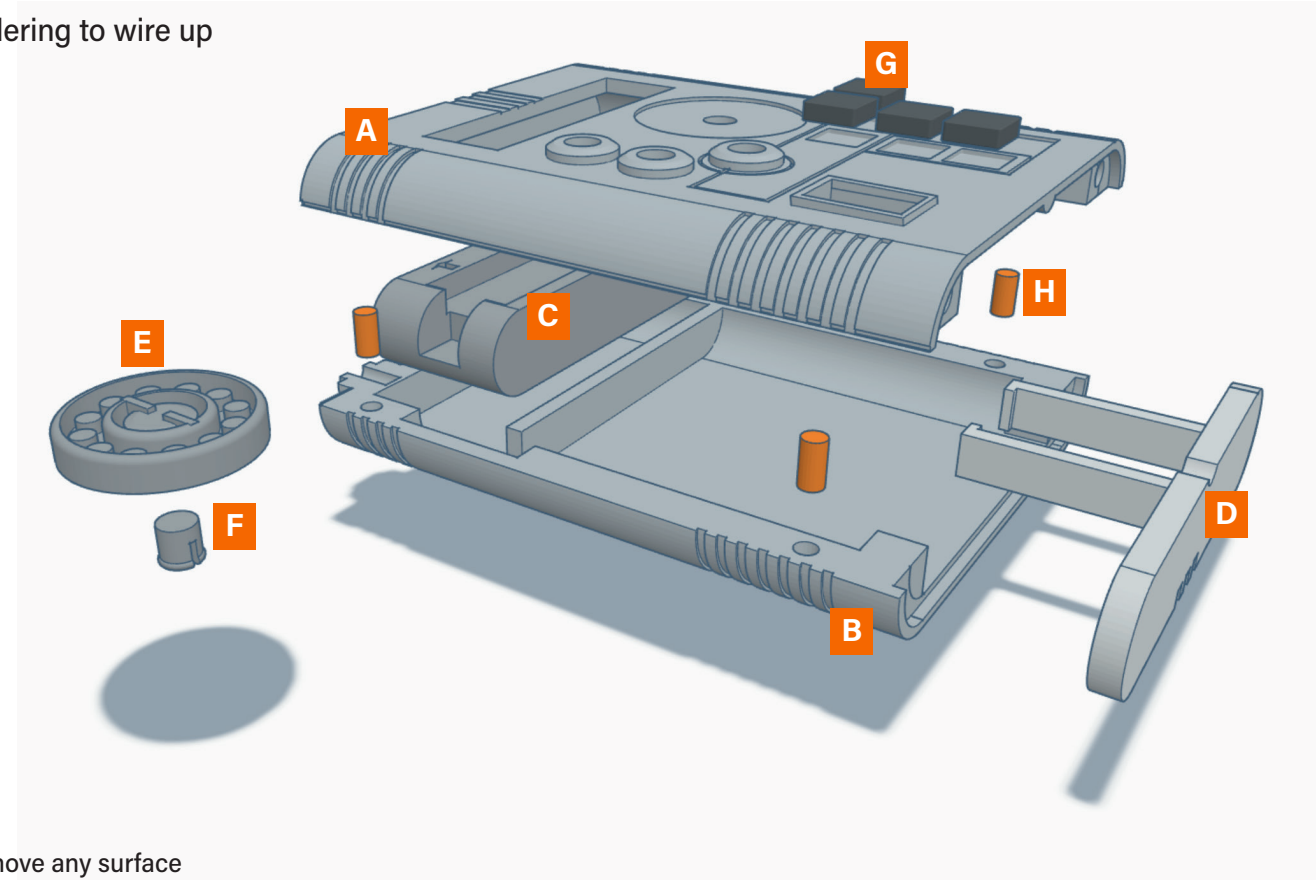
redflare MODEL STUDIOS

Comms Radio Unit Assembly Instructions

You may need to first need to clean up some of the resin parts. The parts in this kit are not prepared and some flashing and cleanup is required before paint can be applied.

Please note that the electronics will require some minor soldering to wire up the battery, switch and LEDs.



Parts List

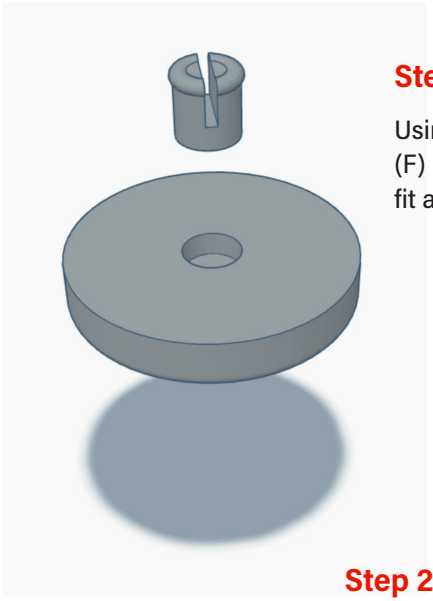
A. x1 Upper Front Panel Casing
B. x1 Lower Panel Casing
C. x1 LED Panel Holder
D. x1 Base Panel with Battery Holder
E. x1 Dial
F. x1 Dial Peg
G. x4 Buttons
H. x4 Casing Pegs

Furthermore, there are the following items included in the kit:

x3 Flashing LEDs
x1 Switch
x1 Radio Mast
x1 PP9 Batter connector
x1 Sticker

Sand and Prime Parts

Apply a light sanding using 100 or 120 grit sandpaper to the parts to remove any surface defects and prepare for priming. With the 3D printed parts, there will be some 'layer lines' and these can be removed by sanding the top surface. If required, you can fill any holes or defects in the parts using plastic putty or filler. After sanding, use your priming paint of choice.

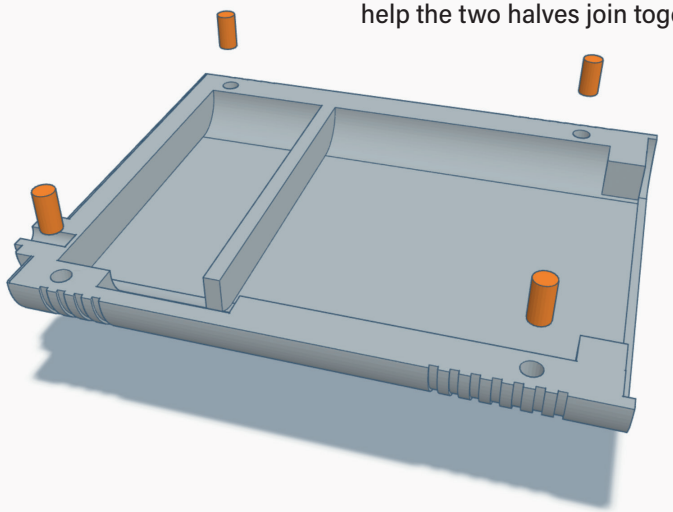


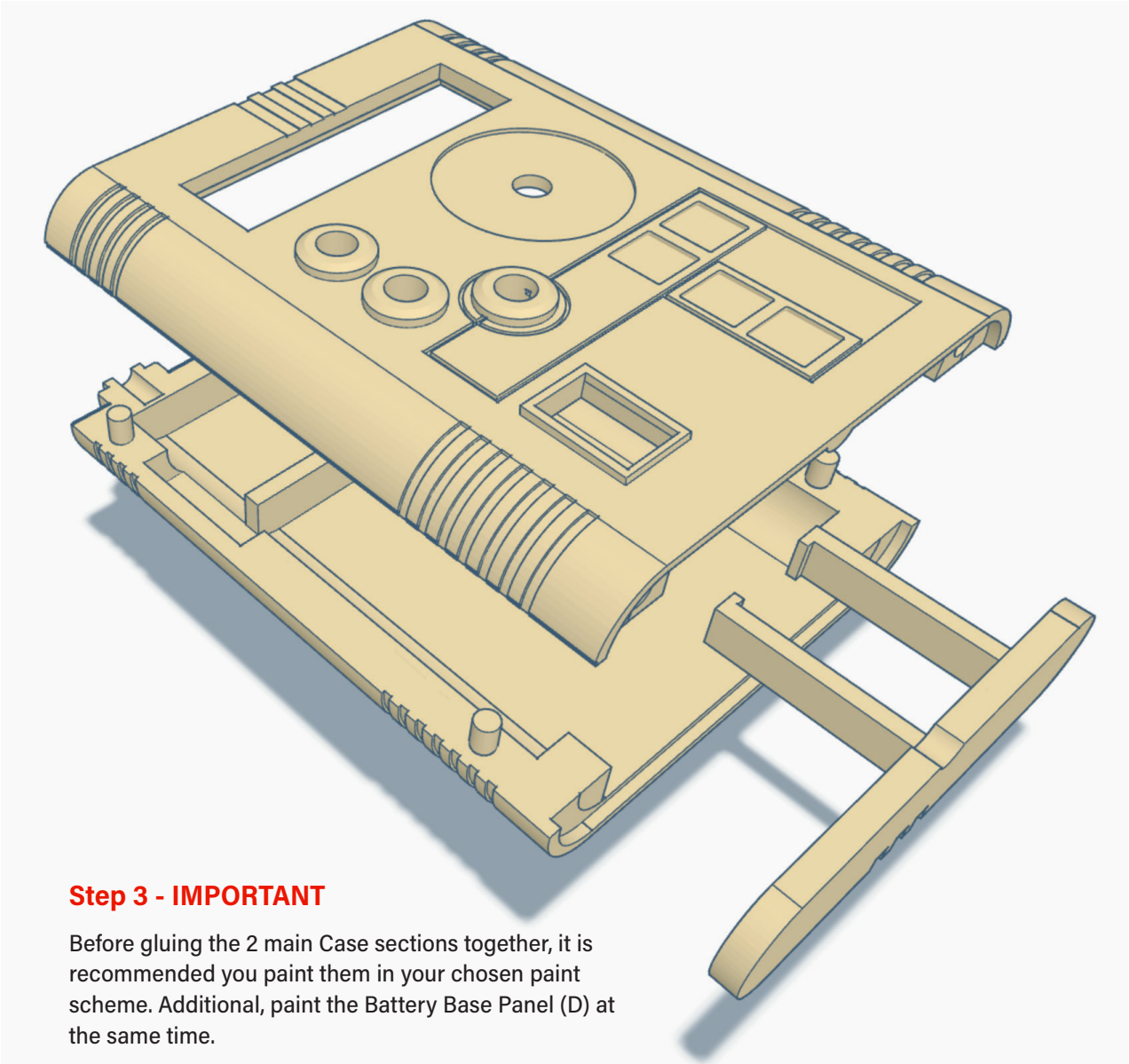
Step 1

Using CA glue, insert the Dial Peg (F) into the Dial (E). This is a tight fit and may need pushing in hard.

Step 2

Glue the 4 round Pegs (H) onto the Bottom Casing Panel (B). These will help the two halves join together.



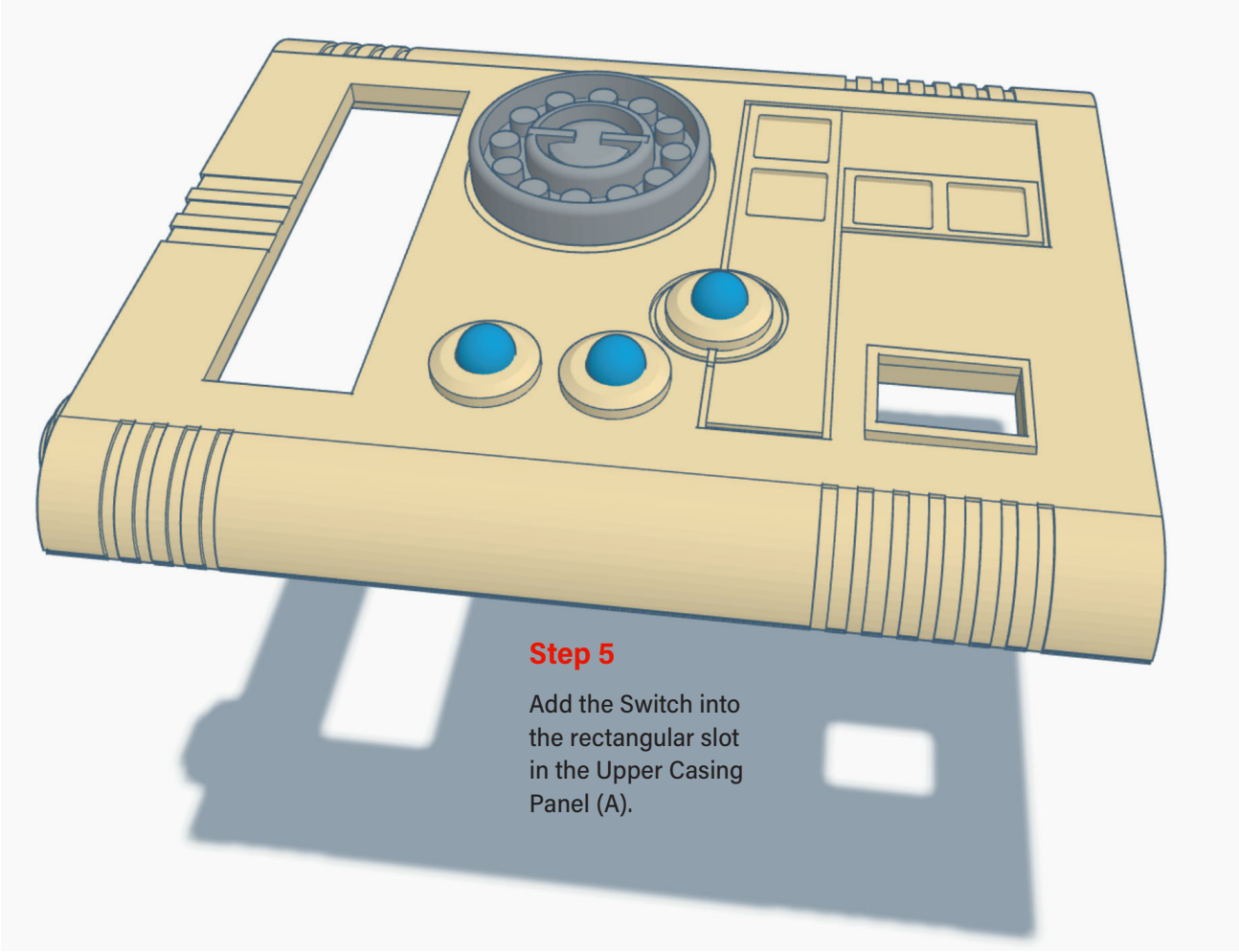


Step 3 - IMPORTANT

Before gluing the 2 main Case sections together, it is recommended you paint them in your chosen paint scheme. Additional, paint the Battery Base Panel (D) at the same time.

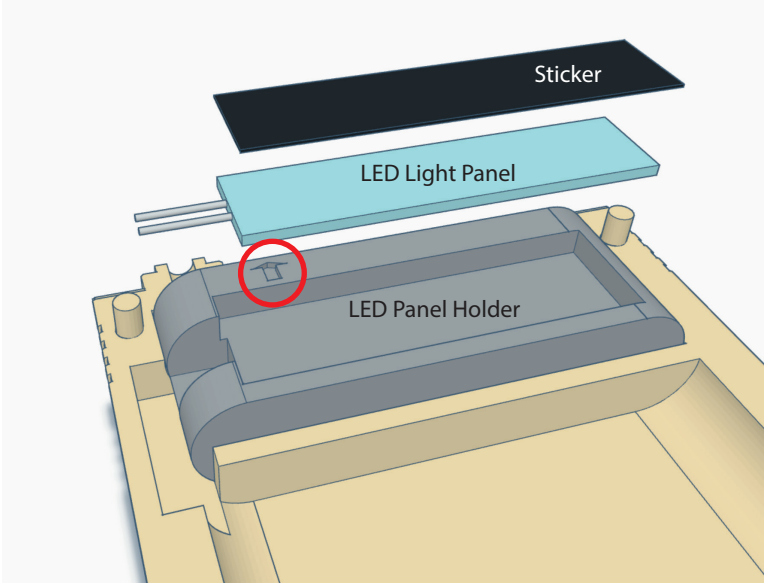
Step 4

Paint the Dial wheel (E) your chosen colour and insert into the hole for the wheel on Upper Casing (A). Insert the 3 LEDs into the Upper Case (A) from the rear, shown here in blue.



Step 5

Add the Switch into the rectangular slot in the Upper Casing Panel (A).



Step 6

Insert the LED panel into the LED Panel Holder (C) and glue the Panel Holder (C) onto the Bottom Casing Unit (B). An arrow will show you the correct way to install this part.

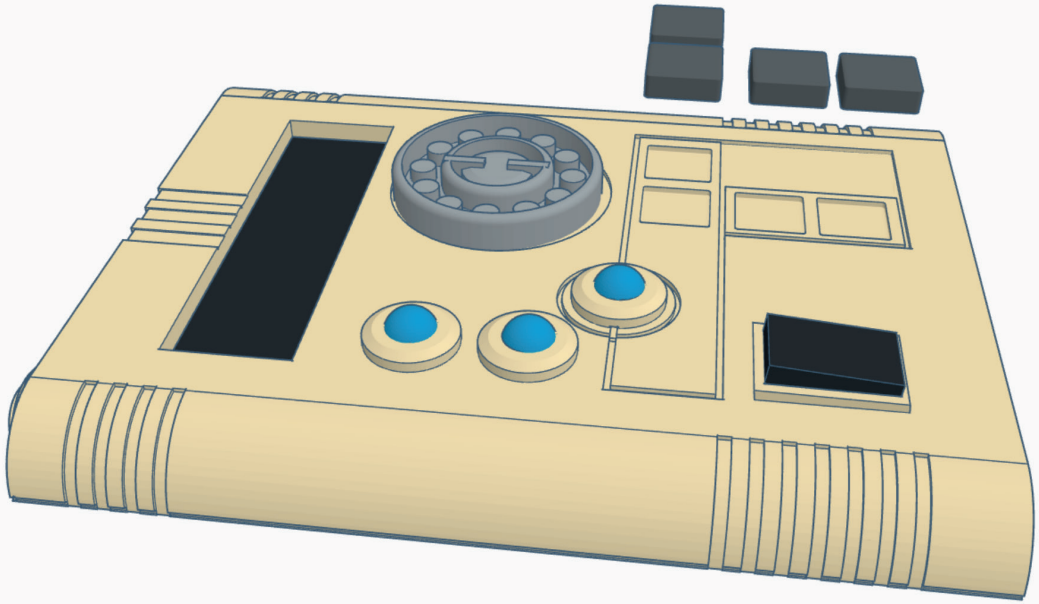
You can glue the LED lighting Panel if you wish to (C) for stability.

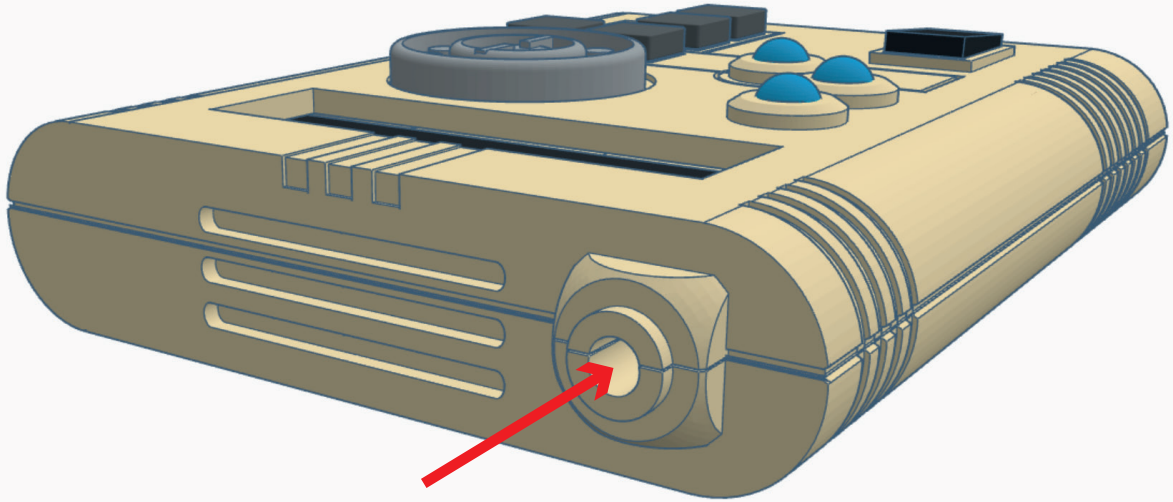
Refer to the wiring diagram for the solding of a resistor to the LED Panel. The wiring will fit into the groove by the lefthand edge in the Bottom Panel (B).

Add the Sticker to the front of the LED panel.

Step 7

Glue the 4 buttons (G) onto the Front Casing (A) in the sections shown with CA Glue.





Step 8

Apply CA glue around the seams of both Casing halves (A) & (B) and clamp together for a secure seal.

Lastly, apply some glue to the screw end of the Radio Mast, and insert the Radio Mast into the hole at the top. It will be a tight fit but you can screw this together so the rubber edge of the Mast fits seamlessly with the Radio Casing.

Wiring Diagram

You will need to carefully wire the Electronics following the diagram so that the 9v battery can powered the flashing LED when switched on. You can also use some wire connectors (not supplied) to make it simpler to assemble.

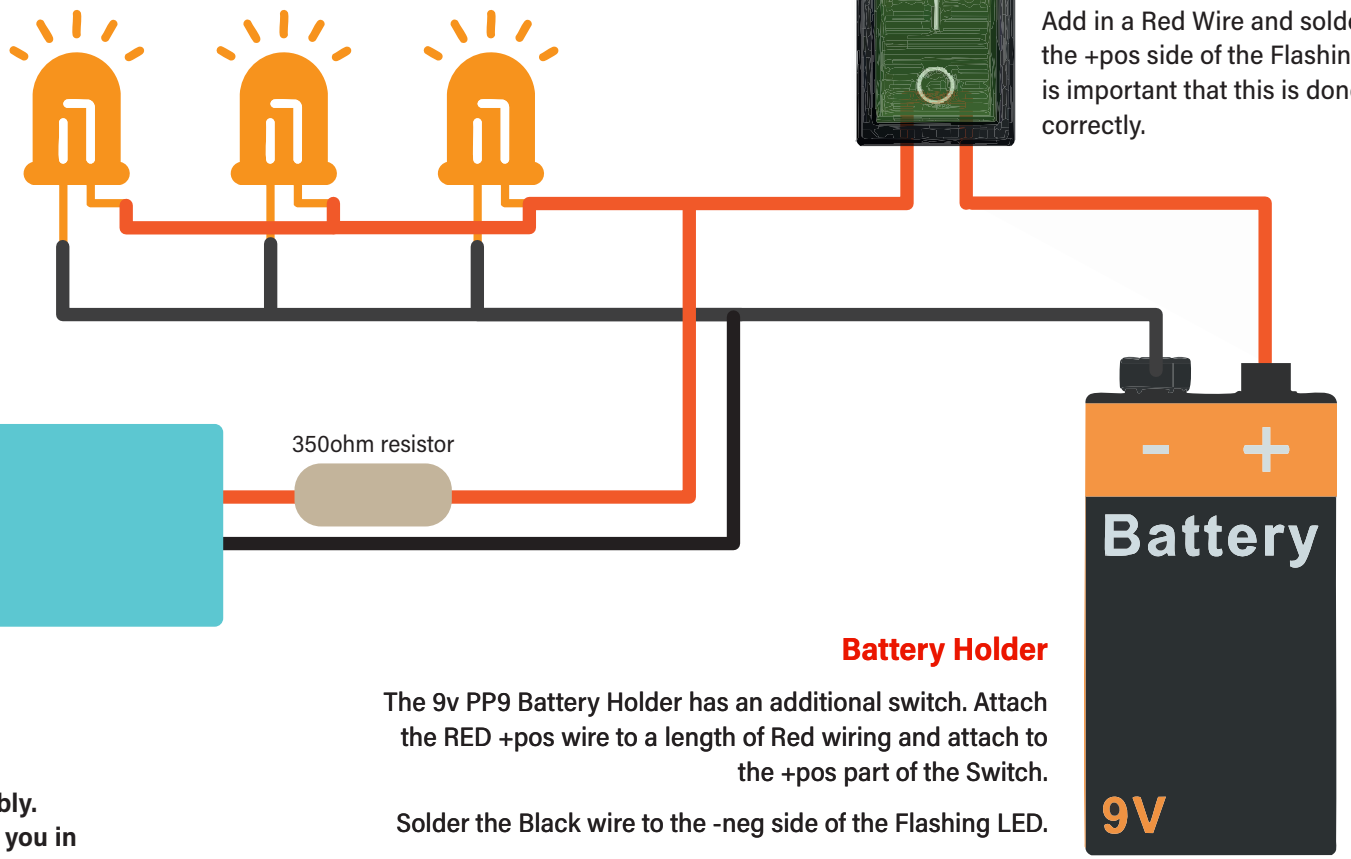
Flashing LEDs

The LEDs are prewired with a resistor, so you do not need solder any additional components.

On/ Off Button Switch

Ensure the +pos lead of the Switch is attached to the +pos side of the Battery Box.

Add in a Red Wire and solder this to the +pos side of the Flashing LED. It is important that this is done correctly.



LED Light Panel

The LED Light Panel will require a 350oHM resistor soldering onto the Postive (+) terminal.

Battery Holder

The 9v PP9 Battery Holder has an additional switch. Attach the RED +pos wire to a length of Red wiring and attach to the +pos part of the Switch.

Solder the Black wire to the -neg side of the Flashing LED.

TEST BEFORE FINAL ASSEMBLY

We advise you to test your wiring before assembly. Adding in some wiring connectors would assist you in inserting them inside the Comms Radio Unit.

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