

Troubleshooting

Before turning on the Badge, check the following:

- D1 and D2 are orientated with Flat side matching the Line
- Processor Pin one is matching the Line
- SW1 is installed correct side up
 - o If text ON, 1 and 2 are upside down, then the switch will work but it is backwards
- Verify Soldering

When turning on a Badge, the color LED should blink white, then pushing the X Button will result in the following blink in the team color

Dash Dot Dash Dot Dash

When the White LED doesn't turn on check the following:

- Is the battery in the correct orientation?
- Check for soldering bridges, especially around SW1 and D1
- Reflow solder points that seem messy

When the White LED does turn on but SW2 does nothing

- Ensure the Y Switch is on (SW1) before turning on power
 - o This is Game mode and it is detected on power-up

When the color is wrong

- Check Soldering of R1, R2, R3 and R4

Badge Tips

Before Starting, Review the following items on the Badge

- There are 16 components in the Kit
 - Do Not Solder the Processor. It will be plugged into the Socket J1
 - Switch on SW1 must be orientated with ON above the left switch.
 - U2 needs to be sitting flush to the PCB
 - There are only 2 Components on the back of the PCBA
 - It is recommended to solder BT1 before any other component
 - It is recommended to solder J2 after all components have been soldered
 - Components R1, R2, R3, and R4 determines the color of the first blink sequence
 - Silkscreen table is inaccurate for the colors **VIOLET** and **GREEN**
 - Not all Resistors are populated
 - R7 is to be shorted. Use the wire cut from an installed resistor
 - If the kit contains an 8mm LED instead of a 5mm LED, follow the work instructions for installing the LED.

Updates for Assembly

Population required for Violet Team and Green Team have changed:

- Violet – Populate R1, R2 and R4; Do Not Equip R3
 - Green – Populate R1, R3 and R4; Do Not Equip R2
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R7 is to be shorted instead of using a 110 ohm resistor.

- Use a lead from one of the 10 kilohm resistors to short R7
 - Note: there is no 110 ohm resistor in the kit
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Prior to power-up, Y Switch must be on.

- Y Switch is the outside switch of the double switch, Power is the inside switch
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For kits containing the 8mm Color LED, execute the additional work instructions:

- Solder Pin 1 of LED to D1 Pad 2 of PCBA
 - Cut Pin 2 off of LED
 - Solder Pin 3 of LED to D1 Pad 3 of PCBA
 - Solder Pin 4 of LED to D1 Pad 4 of PCBA
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End of Updates