SC2 Sport-Pro Power Button check for "Waiting for the drive to get ready" hangup

Version	Date	Changelog
V1	15.7.2020	First version
V2	9.10.2020	Added an example image of a bad cable placement
V3	25.1.2021	Added images and Simucube logo
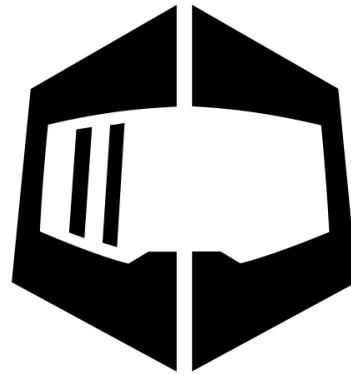
SIMUCUBE

Step 0: Check unit with another E-stop button and USB cable

Connect another e-stop button to the unit. Replacing the E-stop button might fix the issue.

Try the unit with another USB cable. Try with shorter USB cable, if possible.

Continue to the following steps if these does not fix the issue.

Step 1: Disconnect all wires from the unit.

Power the unit off, disconnect all wires. Leave unit without any wires (DC and USB connector) for 10 minutes.

Step 2: Unscrew the back plate / Electronics Assembly

Place the motor on a clean table surface. Avoid scratching the unit.

Unscrew the two hex screws marked by RED circles.

NOTE: Do not let the back plate and electronics assembly to hang so that it is only supported by wires!

Step 3: Adjust power button cable

- Take a peek inside the motor rear housing.
- **NOTE: Opening the housing as much as in the picture is NOT required for completing this task.**
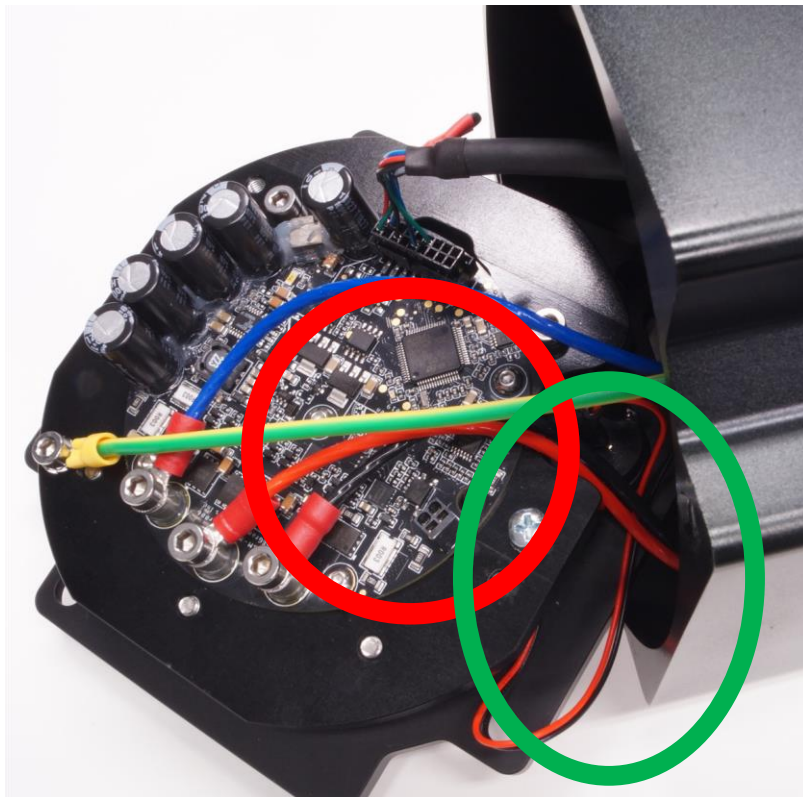
- Adjust the thin power button cable (outlined roughly by the green circle) so that it does not cross the motor phase wires, and especially that it does not lay against / on top of the servo drive PCB area (red circle) and that it is not pinned on to the servo drive PCB by the motor phase wires. (blue, red, black and the green/yellow protective earth)

- See example image of a bad wire placement on the next page.

- Placement of the power button cable is not otherwise critical.

- **NOTE: Do not induce any mechanical load to motor phase wires (blue, red and black)!**

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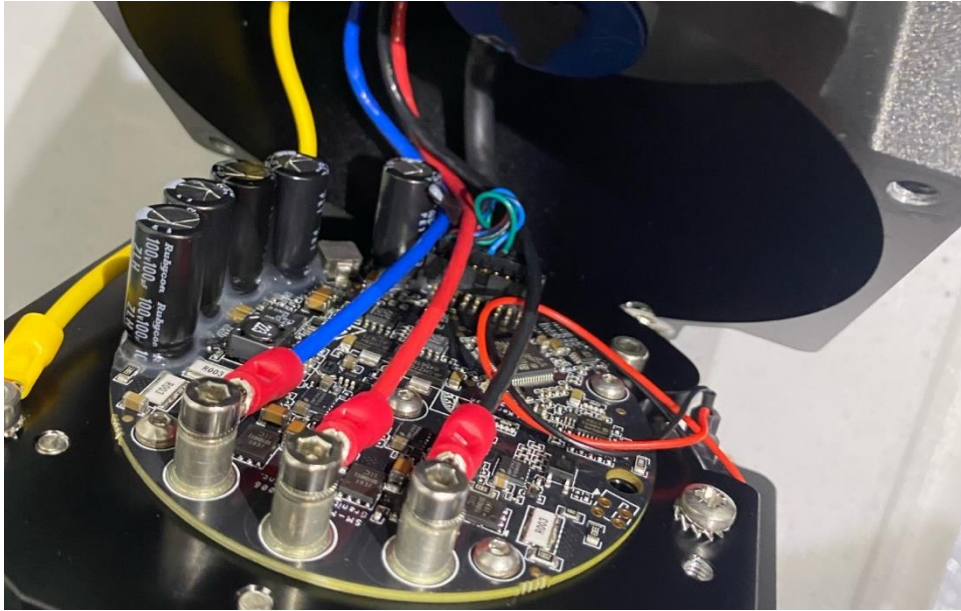
Example image of a bad PSU power cable placement which caused the device to have issues to start up.

Step 4: Re-attach the back plate / Electronics Assembly

Reinstall the back plate to the housing.

See Step 2 for illustration.

Note: check that the power button cable (and any other cables) are not pinned by any parts.