Power Issues & Fixes

1. **Incorrect Fuse Footprint**

   o Issue: Ordered fuse footprint is too large.

   o To-Do: Update footprint to match ordered fuse size.

2. **Barrel Jack Polarity Reversed**

   o Issue: Pin 1 (VCC) and Pin 2 (GND) are swapped.

   o To-Do: Correct polarity in the schematic.

3. **TPS5433 Symbol Incorrect**

   o Issue: Incorrect pin mapping in the schematic.

   o To-Do:

      ▪ Update symbol with correct pin mapping:

         ▪ **PH** → Pin 3 → Pin 8

         ▪ **GND** → Pin 4 → Pin 7

         ▪ **EN** → Pin 7 → Pin 3

         ▪ **SS** → Pin 8 → Pin 4

4. **DC-DC Feedback Network Adjustment**

   o Issue: Current resistor network needs optimization.

   o To-Do: Replace the feedback network with a single **1.91kΩ** and **3.24kΩ** resistor.

5. **Power Rail Sourcing**

   o Issue: 5V and 3.3V should source from 12V instead of sequential rails.

   o To-Do: Update schematic power distribution to ensure both 5V and 3.3V are derived from the 12V supply.

Connector Issues & Fixes

1. **Screw Terminal Footprint Mismatch**

   o Issue: Ordered screw terminal product is **P2.54**, but PCB footprint is **P5.08**.

   o To-Do: Update the component selection to match **P5.08**. These need to be sourced.