



# Disassembling Hyperion EOS0610i DUOII Chassis

Disassembly of the Hyperion DUOII charger.

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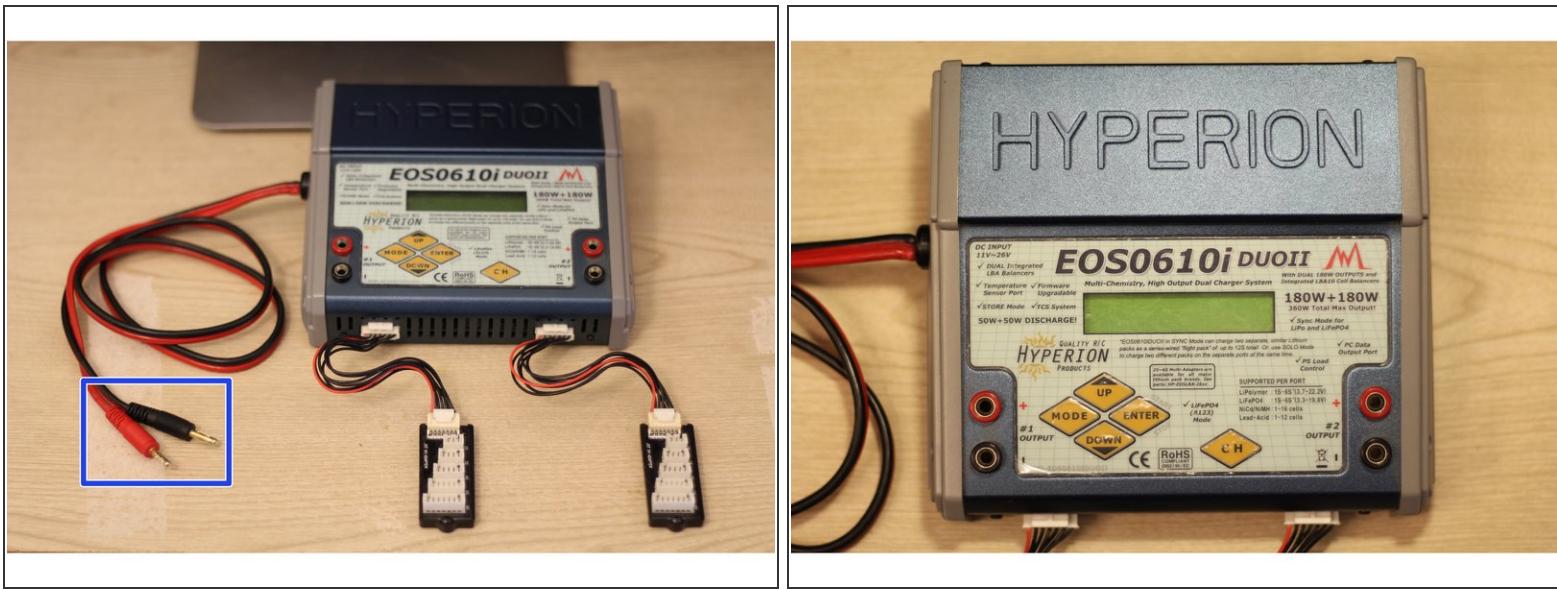
## INTRODUCTION

The Hyperion EOS0610i DUOII is a multi-chemistry battery charger originating in Hong Kong with two charging channels and PC logging compatibility with an addition USB dongle sold separately.

### TOOLS:

- [Phillips #1 Screwdriver](#) (1)
- [Spudger](#) (1)

## Step 1 — Disconnect DC Power



- Disconnect the DC power banana plugs from any power source.
- When not powered, the chargers screen will be blank.

## Step 2 — Remove Balance Boards



- Press down on the tab located on the top of the white molex connector and firmly pull away from the charger body.

## Step 3 — Remove Right Side Panel



- Remove the four screws located on the right side cover of the charger.

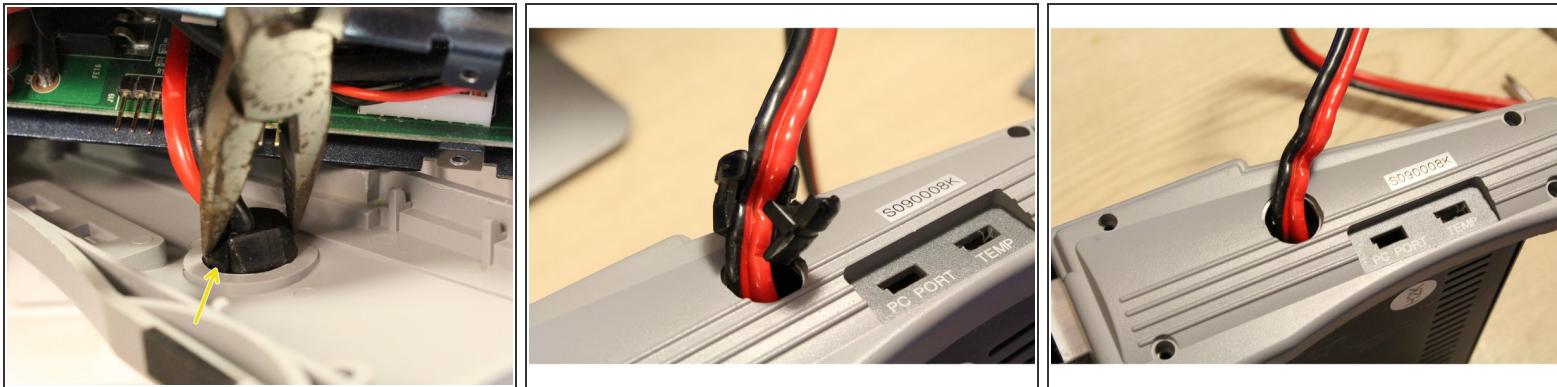
## Step 4 — Remove Left Side Panel Screws



- Remove the four screws located on the right side panel.

**⚠** Do not pull on the panel, the DC power cables are rigidly attached to the panel by the black plastic grommet, this grommet is removed in the next step.

## Step 5 — Remove the DC Power Cable Grommet



- Locate the smaller, secondary part of the grommet.
- Using needle nose pliers, gently squeeze on the secondary part of the grommet and the opposite side of the grommet while pushing the grommet through the hole towards the exterior side of the panel.
- Once pushed through the hole, the grommet can be removed from the wires and set aside.

*(i)* The smaller, secondary part of the grommet is connected to the main part of the grommet by a thin piece of plastic, ensure this piece is not severed during this process.

## Step 6 — Pass the DC Power Cables through the Left Side Panel



- One by one, pass both banana connectors through the hole in the left side panel.

## Step 7 — Remove Top Face Cover Screws



- Remove the two screws located on the front side of the charger.
- Remove the two screws located on the back side of the charger, above the fan screws.

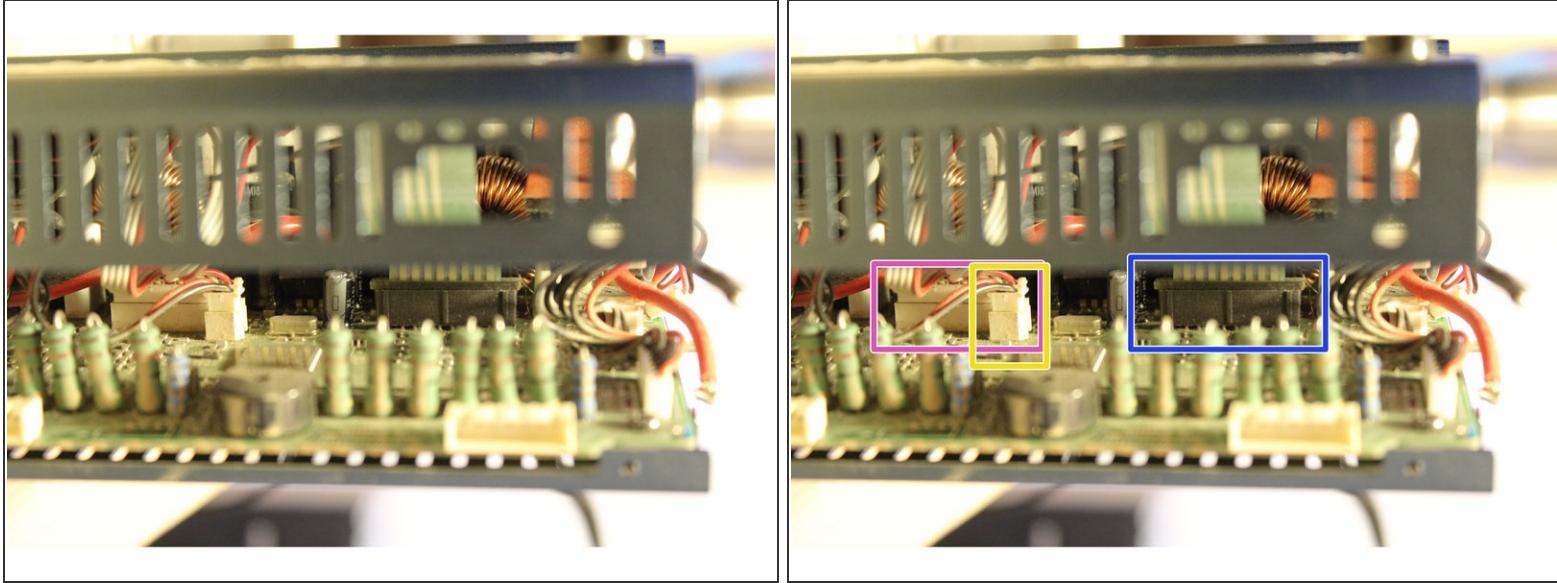
## Step 8 — Desolder the Charge Ports



- Desolder the two wires connected to the female banana plug ports for both channel 1 and 2 (left and ride sides of the charger).

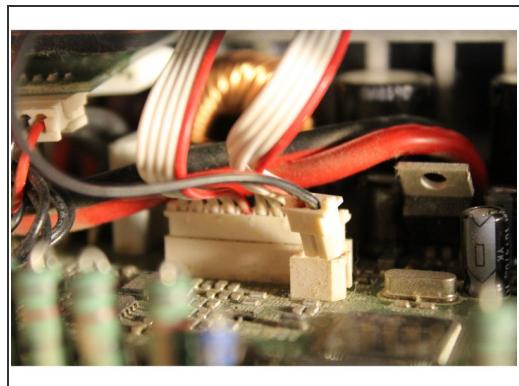
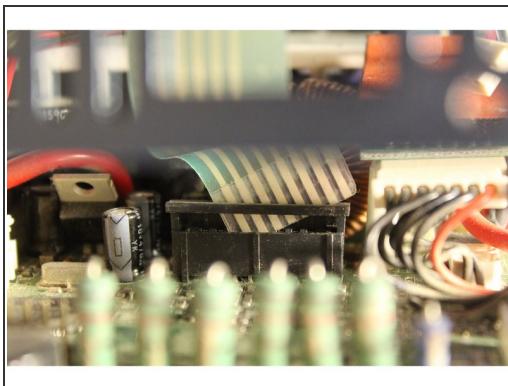
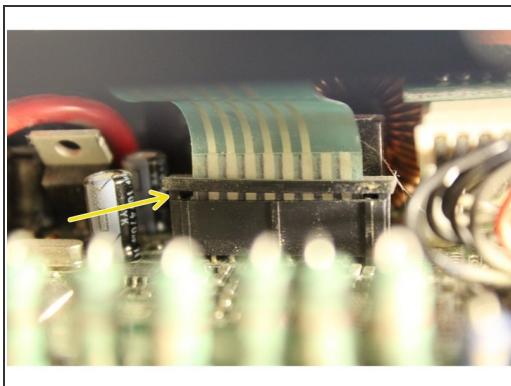
**⚠** Too high temperature setting will cause the plastic banana plug port covers to melt, use only as much heat as needed to flow the solder.

## Step 9 — Gently Lift the Top Cover



- The top cover is still connected by three ribbon cables to the mainboard. Gently lift the top cover until you can slide your fingers or a spudger into the charger to disconnect the three molex connectors.
  - LCD Segment Display Connector
  - Backlight Power Connector
  - Front Panel Buttons Ribbon

## Step 10 — Disconnect Top Plate Ribbon Cables



- Use a spudger or shim to gently separate the top plastic bar from the large lower piece. Once separated, the ribbon cable can be slipped out of the housing.
- Disconnect the two white molex connectors from the board mount plugs.

## Step 11 — Separate Upper and Lower Portions



- The top faceplate can now be separated from the lower charger assembly.
- ☒ Be sure to separate the two parts slowly, checking for snagged wires and other hazards that could cause damage to the charger.
- Inside you'll find:
  - PIC24HJ128GP310 16-bit Microcontroller
  - PIC ICSP Programming Pins (6 Pins)
  - KA324AD Quad Operational Amplifiers (4 total)
  - 24LC32A 32K I2C Serial EEPROM