Technical Support Information

How to replace new fuel gauge for Li-Ion Battery pack

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Tools & Accessories

1. Polymer Li-Ion Battery pack with Fuel gauge: 14.8V 5000mAh
2. Fuel Gauge for PCB of 14.8v Li-Ion Battery Pack (4 cells pack, 2 pin female JST connector)
3. Digital Multi Meter
4. Crimp
5. Soldering Iron Gun
6. Black tape

DIY Instruction

- Check the battery pack voltage before replacing a fuel gauge as picture1 below. (Due to internal short circuit by fuel gauge, V out should be around 0.0V-0.5V)

Picture1

- Disconnect the Fuel Gauge’s Black Wire by a crimp tools as picture 2 below

Picture2
- Check the pack’s voltage after disconnect the Fuel Gauge’s Black Wire. The pack’s voltage should be approximately 14.8V-16.68V for 4 cells pack.

  Tip: The pack’s voltage could be range from pack’s working voltage( the number of cells x 3.7V) to pack’s peak voltage( the number of cells x 4.2V).

- Disconnect the Fuel Gauge’s Red Wire and remove previous fuel gauge.

- Disconnect the New fuel gauge’s 2 pin JST connector for Red & Black wire end as picture 4&5.
- Connect New fuel gauge wire to previous fuel gauge wire.
  - Solder the New Fuel Gauge’s Red Wire to previous Fuel Gauge’s Red Wire.
  - Solder the New Fuel Gauge’s Black Wire to previous Fuel Gauge’s Black Wire.
  - Locate Black tape on both soldering spot as shown on final picture 6.

Picture: 6