REPAIR GUIDELINE

Backpack Battery_BAX1500

Version: 1

Issue Date: 2018/03/16

G1 Measurement

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DANGER!: You must follow the steps described in this manual very strictly. Any deviations from the described actions may cause a fire or an explosion. It may lead to serious injury or even death.
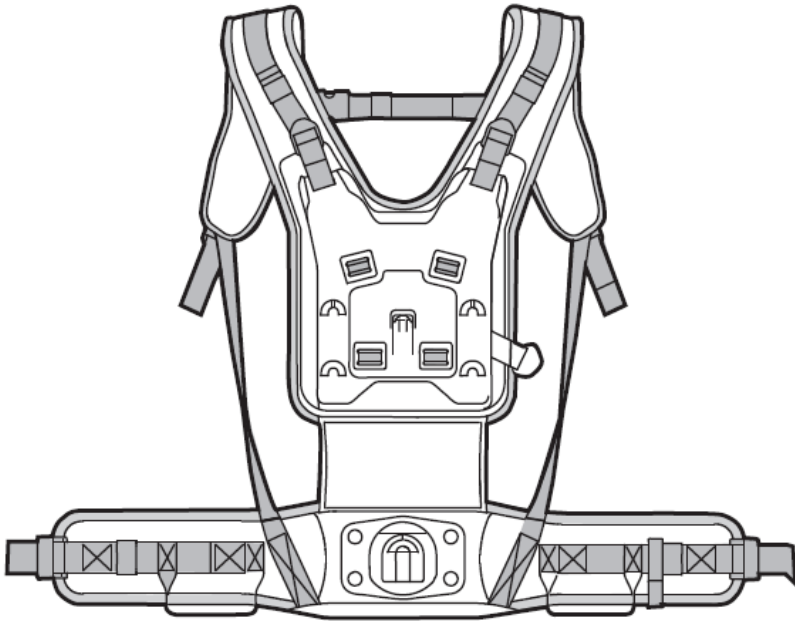
Notice: Make sure you have got all the recommended equipment before proceeding with the repair.
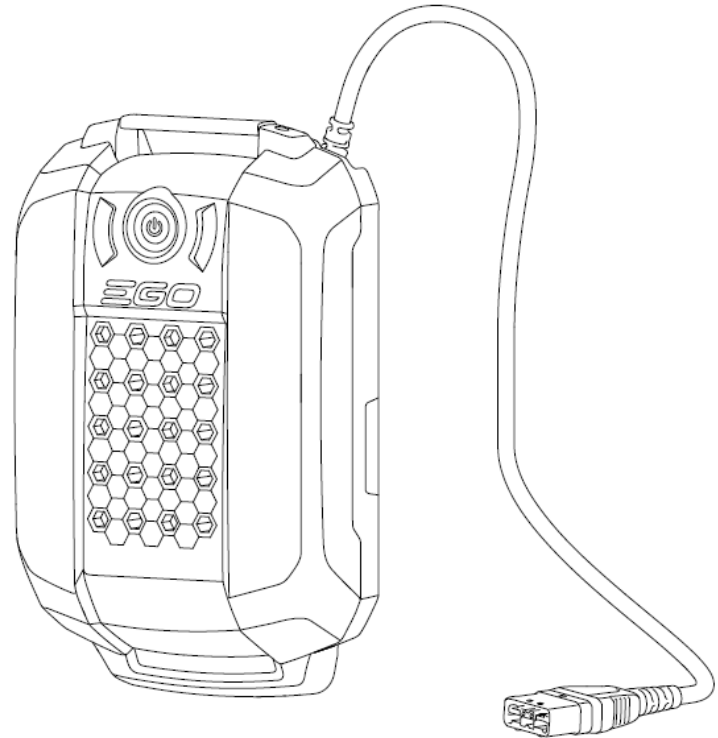
19_1024_G1
:kpack battery m

Replace The External Parts (Without Removing Housing Cover)

1. Remove the backpack harness from battery pack referring to user manual.
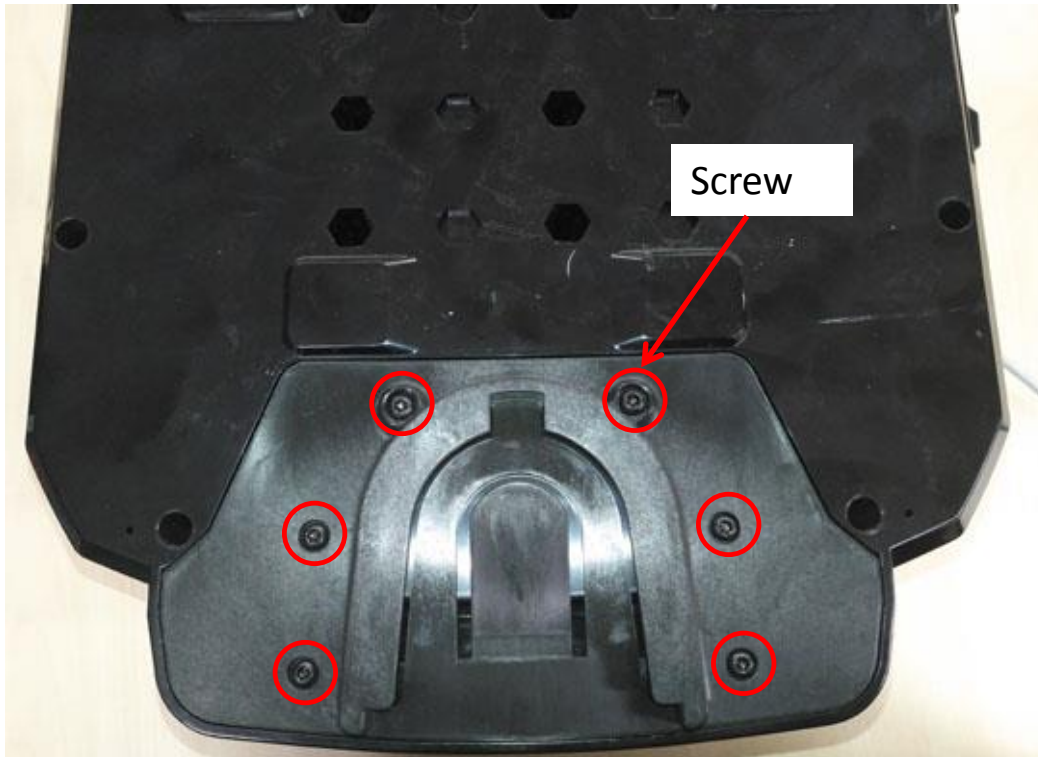

Backpack harness

Battery pack

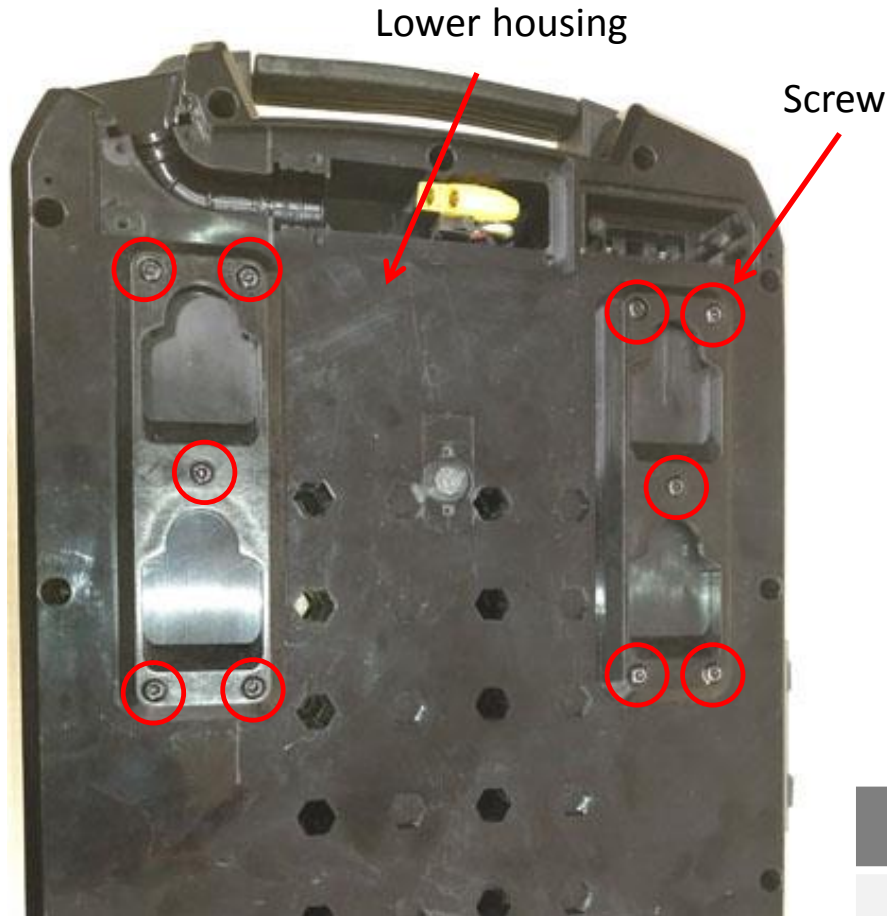# Replace The External Parts (Without Removing Housing Cover)

2. Loosen the six screws and remove the belt mounting plate from the lower housing. If the belt mounting plate is damaged, replace with a new one.

Screw

Belt mounting plate

Description	Part Number	Qty
Screw	5610329001	6
Belt Mounting Plate	3128807001	1

Replace The External Parts (Without Removing Housing Cover)

3. Loosen the ten screws and remove the harness mounting plate from the lower housing. If the harness mounting plate is damaged, replace with a new one.

Lower housing

Screw

Harness mounting plate

Description	Part Number	Qty
Screw	5610329001	10
Harness Mounting Plate	3128805001	2

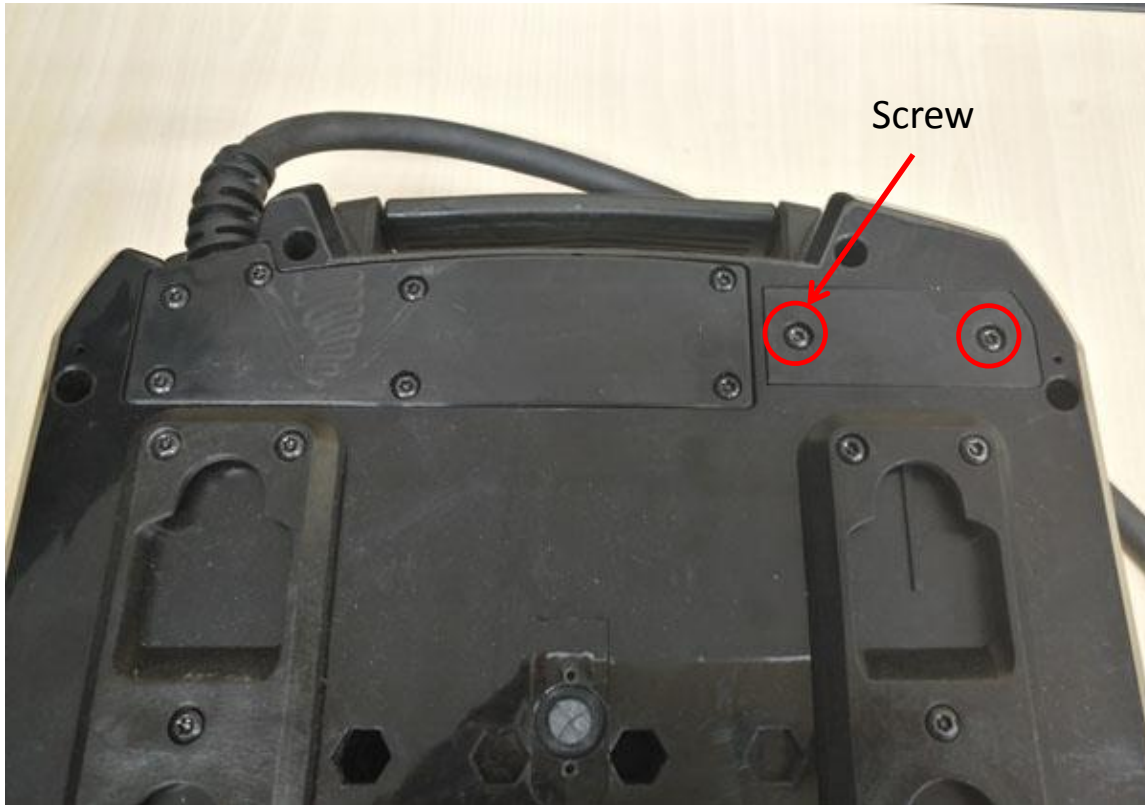# Replace The External Parts (Without Removing Housing Cover)

4. Loosen the two screws #2 and remove the leaf spring from the lower housing. If the leaf spring is damaged, replace with a new one.

Leaf spring

Description	Part Number	Qty
Screw #2	5610250001	2
Leaf Spring	3706275001	1

Replace The External Parts (Without Removing Housing Cover)

5. Loosen the two screws and remove fuse cover and seal ring #1 from the battery pack. If they are damaged, replace with a new one.

Screw

Fuse cover
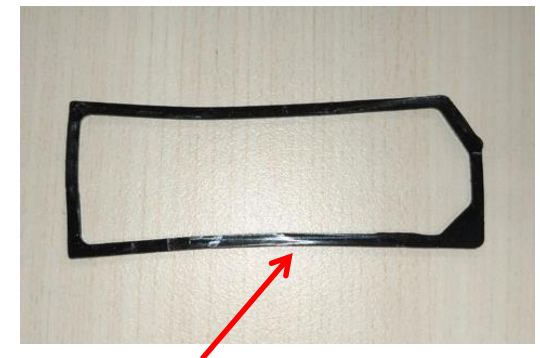
Seal ring #1

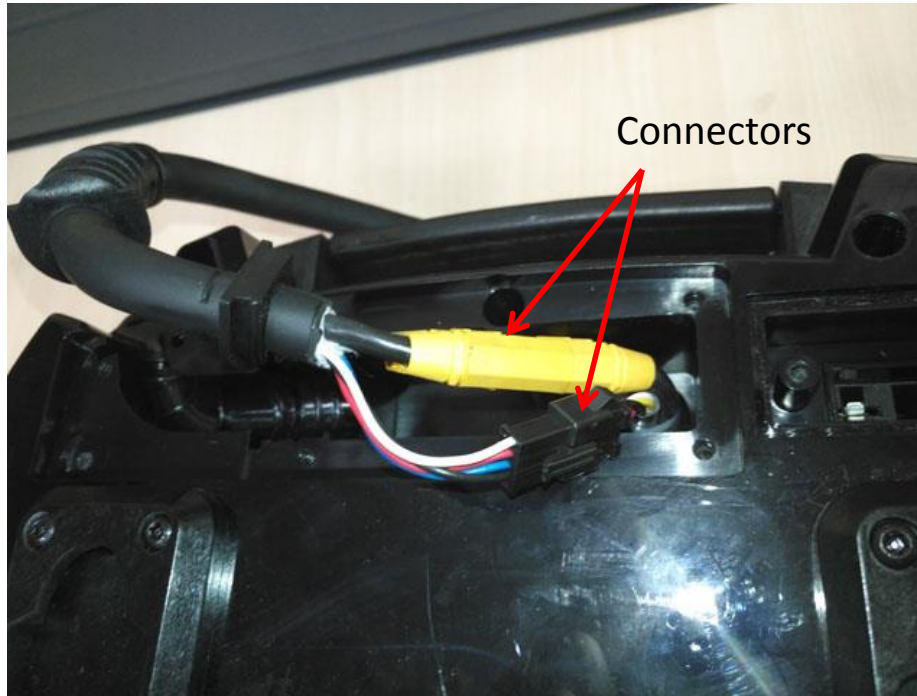| Description	Part Number	Qty
Screw	5610329001	2
Fuse Cover	3128803001	1
Seal Ring #1	3706281001	1

Replace The External Parts (Without Removing Housing Cover)

6. Take out the fuse from the mounting groove directly. Measure the fuse referring to "G1 Measurement", and if the fuse is damaged, replace with a new one.
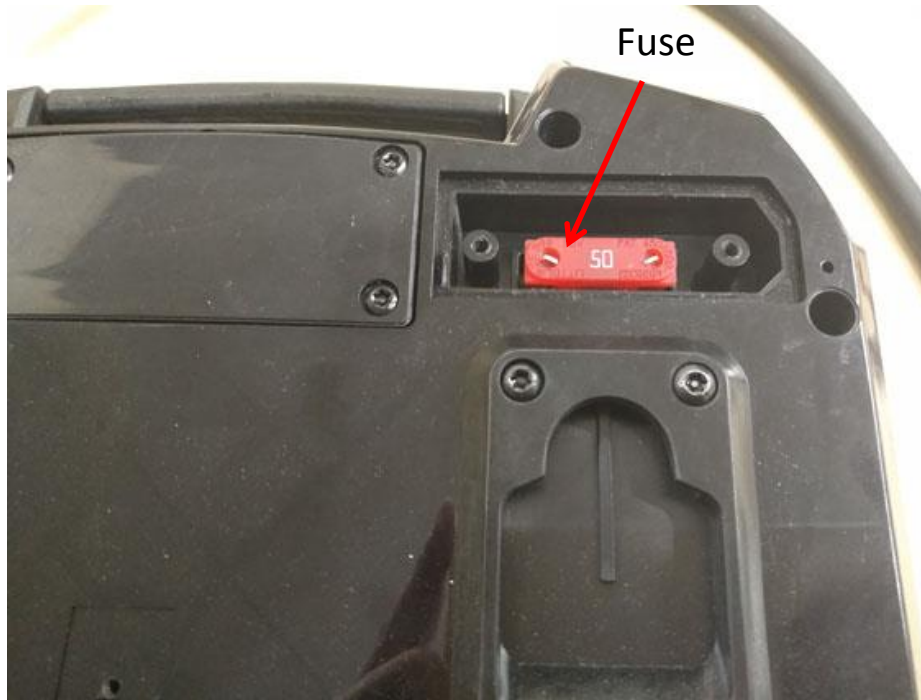
Fuse

Fuse

Description	Part Number	Qty
Fuse	4970316001	1

Replace The External Parts (Without Removing Housing Cover)

7. Loosen the seven screws and remove service cover and seal ring #2 from the battery. If they are damaged, replace with a new one.

Screw

Service cover
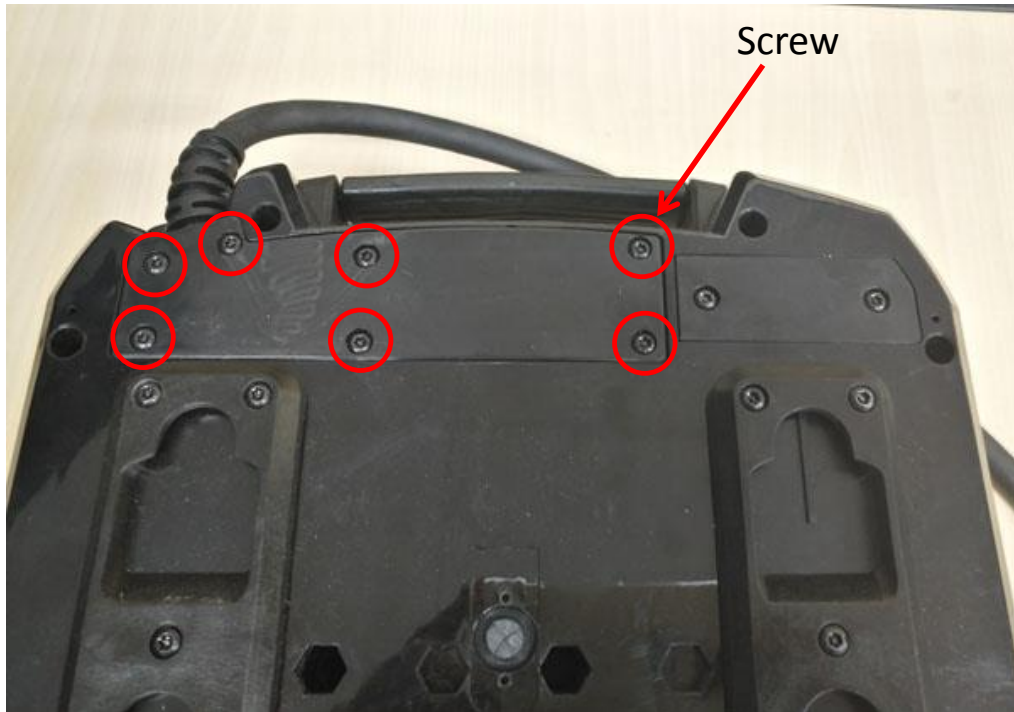
Seal ring #2

Description	Part Number	Qty
Screw	5610329001	7
Service Cover	3128812001	1
Seal Ring #2	3706280001	1

Replace The External Parts (Without Removing Housing Cover)

8. Disconnect the two connectors and remove the cable. Measure the cable referring to "G1 Measurement", and if the cable is damaged, replace with a new one.

Connectors

Seal ring #3

Cable

Notice: The green seal ring #3 in the cable can be replaced independently.

Description	Part Number	Qty
Cable	2825720001	1
Seal ring #3	5690356002	1

Replace The External Parts (Without Removing Housing Cover)

9. The two rubber covers can be replaced with new ones if necessary.

Protective Film

Rubber cover

Left rubber cover   Right rubber cover
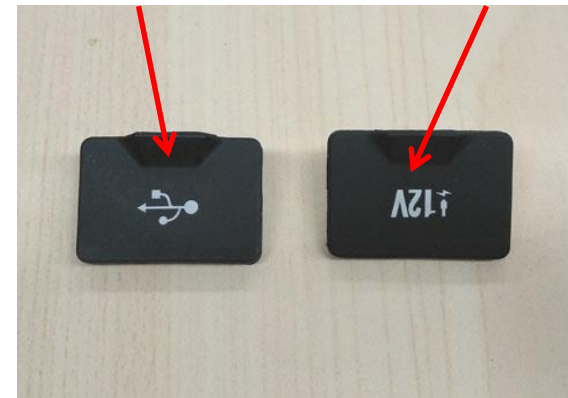
Description	Part Number	Qty
Right Rubber Cover	3128880001	1
Left Rubber Cover	3128881001	1
Protective Film	3706274001	1

1. Referring to "Replace The Housing Cover", remove upper cover from the battery pack.

Notice: Before you remove the upper cover, wear your antistatic gloves or antistatic wrist strap or other antistatic device.

Replace The PCBA

2. Remove the three screws with washer **in sequence** and **insulate the joint with insulating tape to prevent accidental electrical risks (See next slide).**
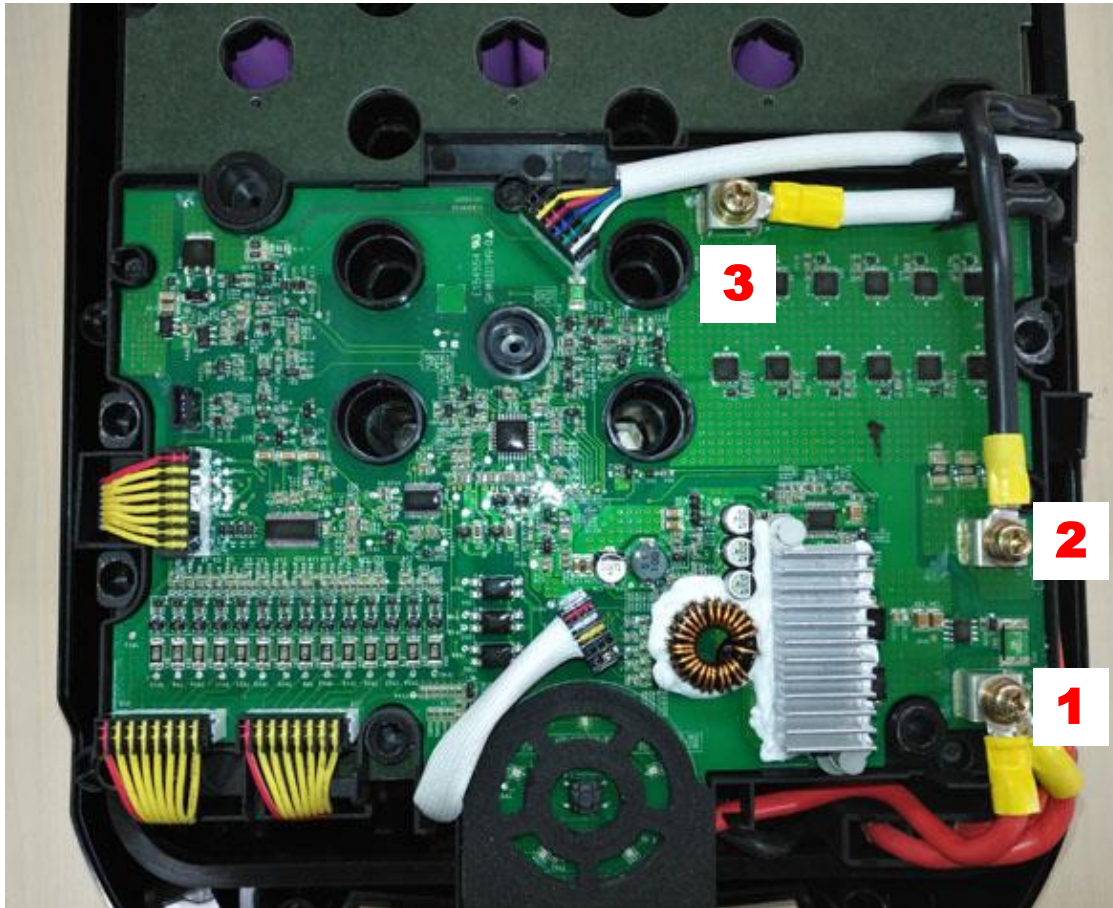
Description	Part Number	Qty
Screw with Washer	5620618001	3
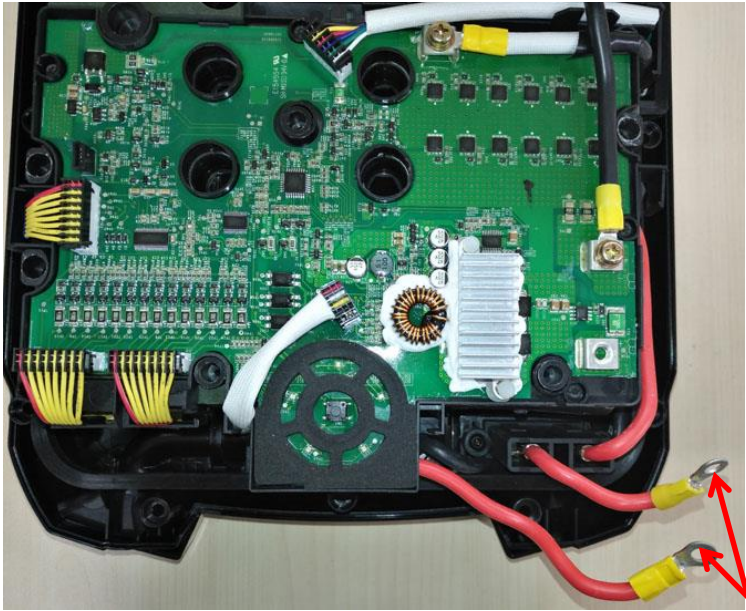
Joint

Insulating tape
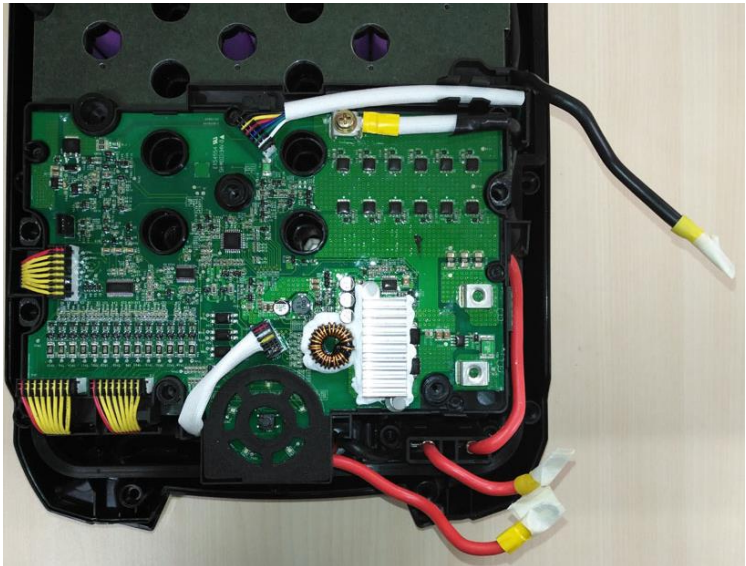
Replace The PCBA

3. Disconnect the 5 connectors **in sequence (4-8).**
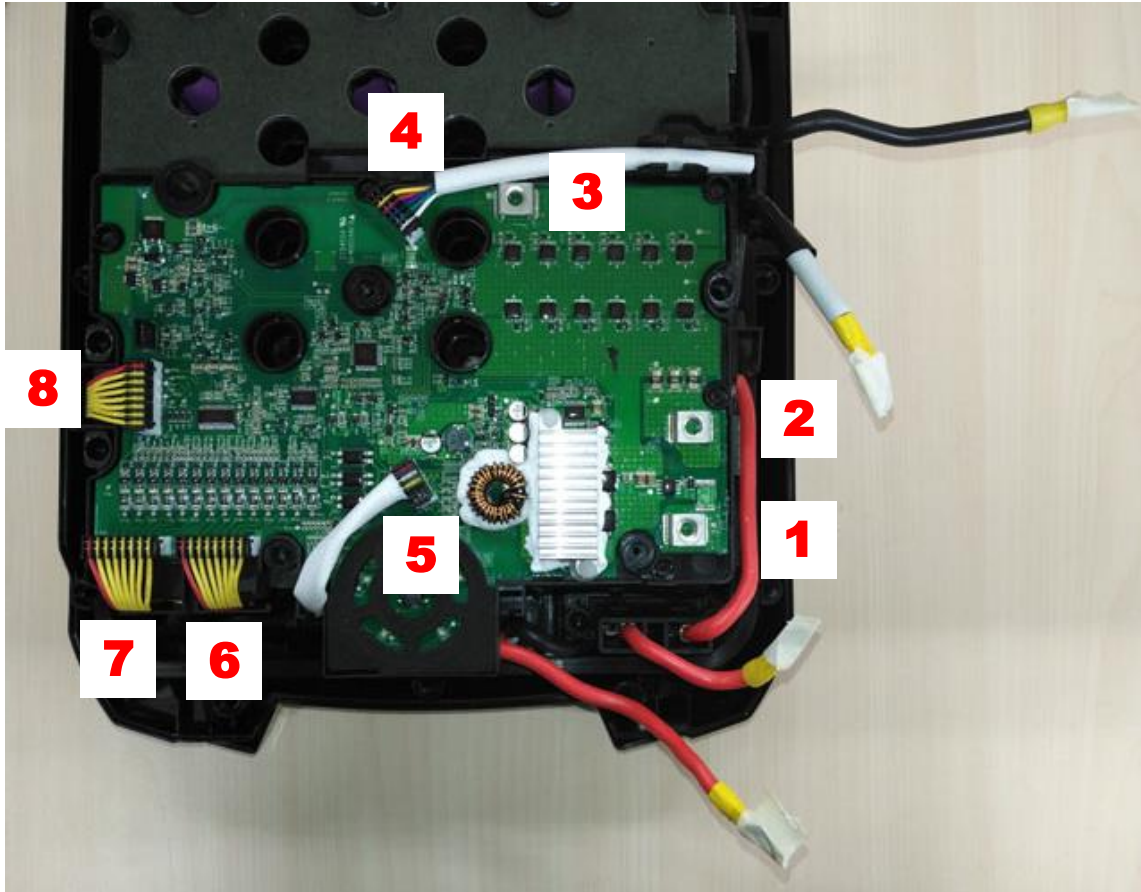
Replace The PCBA

4. Remove the six screws to separate the PCBA from the battery pack. If it is damaged, replace with a new one.
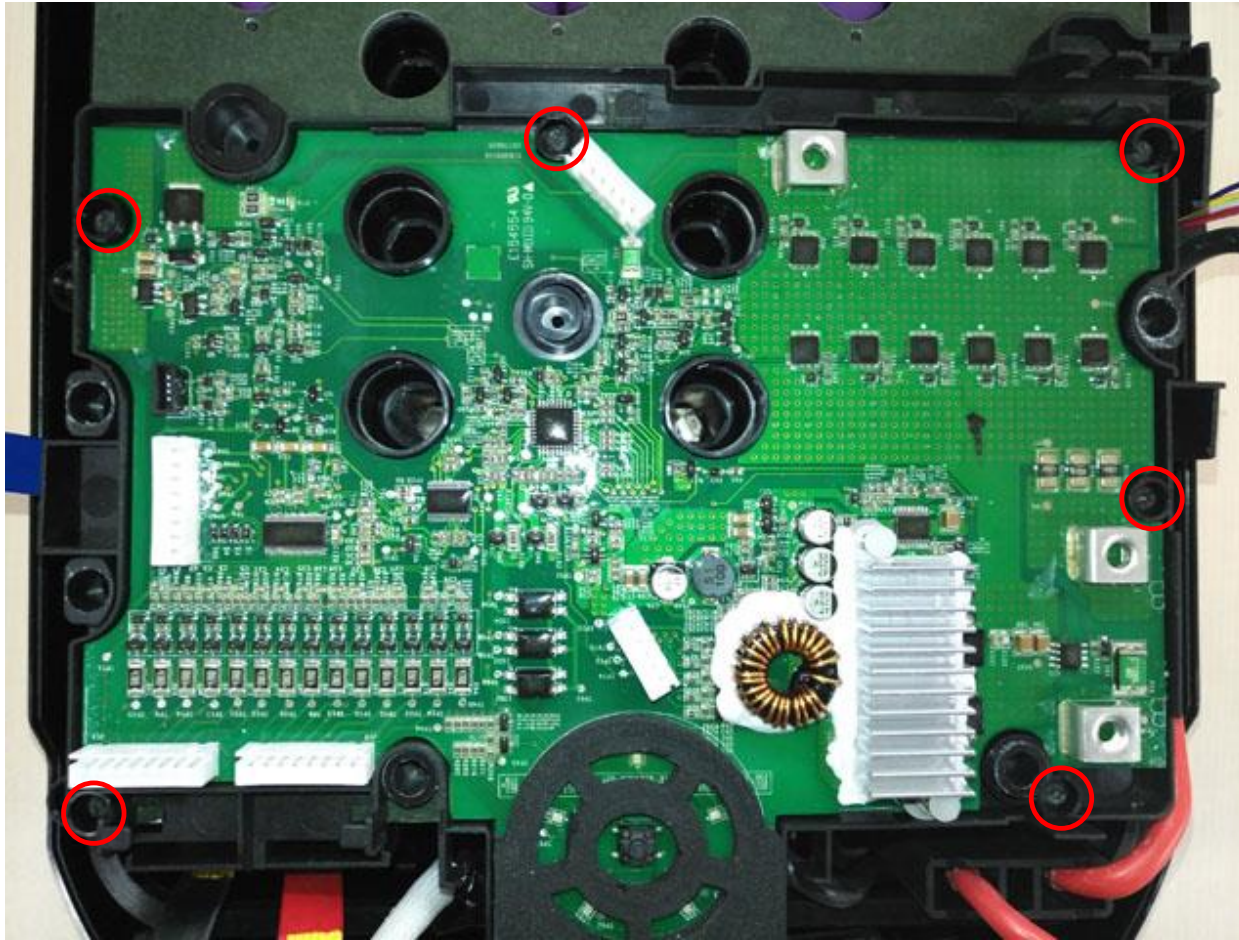
PCBA   Screw
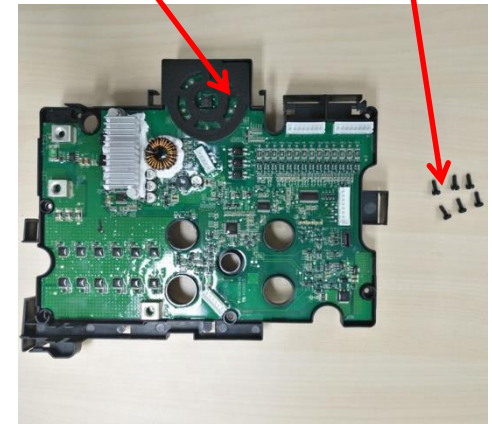
Description	Part Number	Qty
Screw	5610283001	6
PCBA	2830248001	1

Replace The Housing cover

1. Referring to "Replace the external parts", remove the cable, leaf spring, fuse and belt mounting plate from the battery pack.

Replace The Housing cover

2. Remove the 12 screws from the lower housing and separate the upper housing from the battery pack.
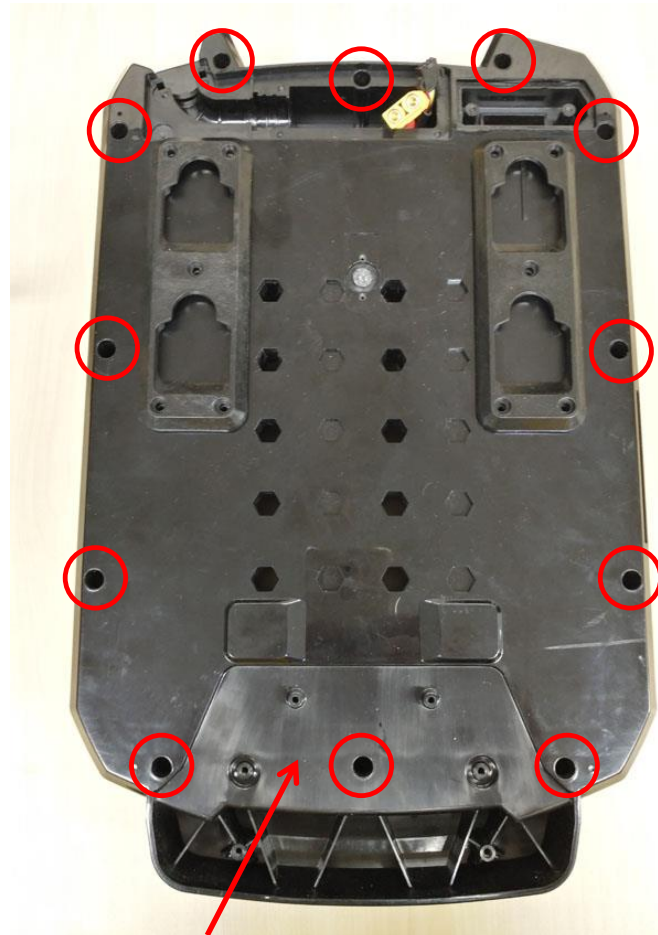
WARNING: Take out all the screws from its mounting groove and take away from the cell assembly.
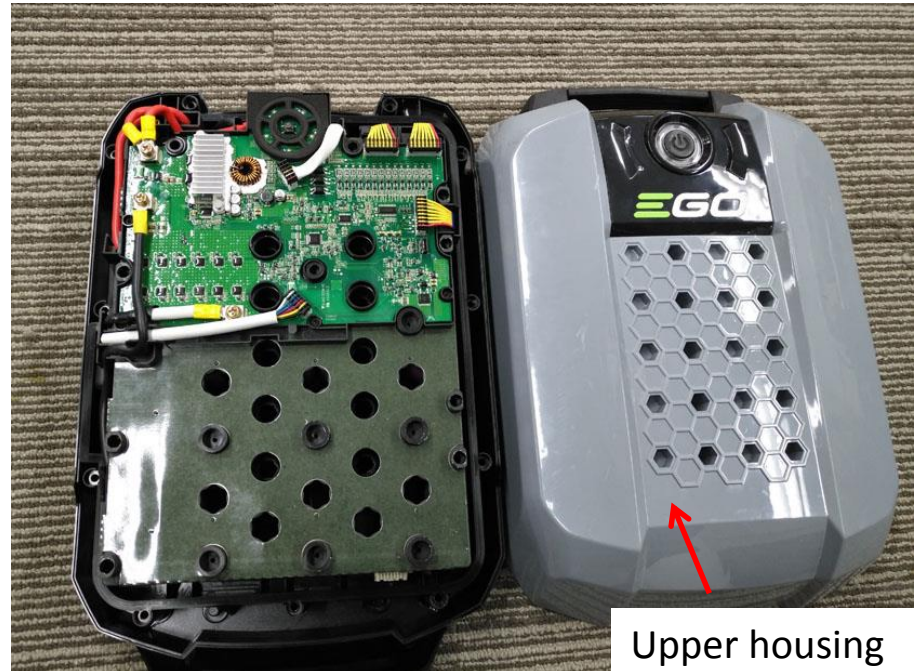
Lower housing

Upper housing

Description	Part Number	Qty
Screw	5610277002	12
Upper Housing	2825460001	1

Replace The Housing cover

3. Loosen the two screws and replace the handle assembly if any part is damaged.

Screw

Left guide bush   Right guide bush

Handle assembly

Description	Part Number	Qty
Screw	5620617001	2
Left Guide Bush	2825131001	1
Right Guide Bush	2825132001	1
Handle Assembly	2825720001	1

4. Referring to "Replace the PCBA", remove the PCBA from the cell assembly.

PCBA
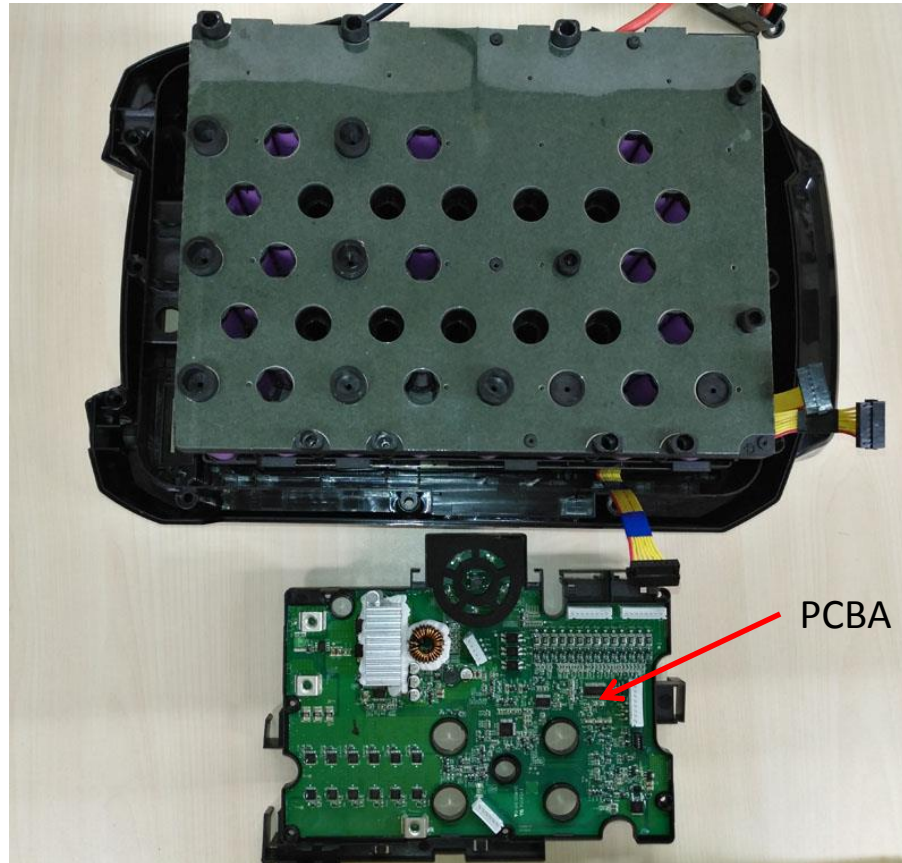
Replace The Housing cover

5. Remove the two screws to disconnect the cell assembly from lower housing.
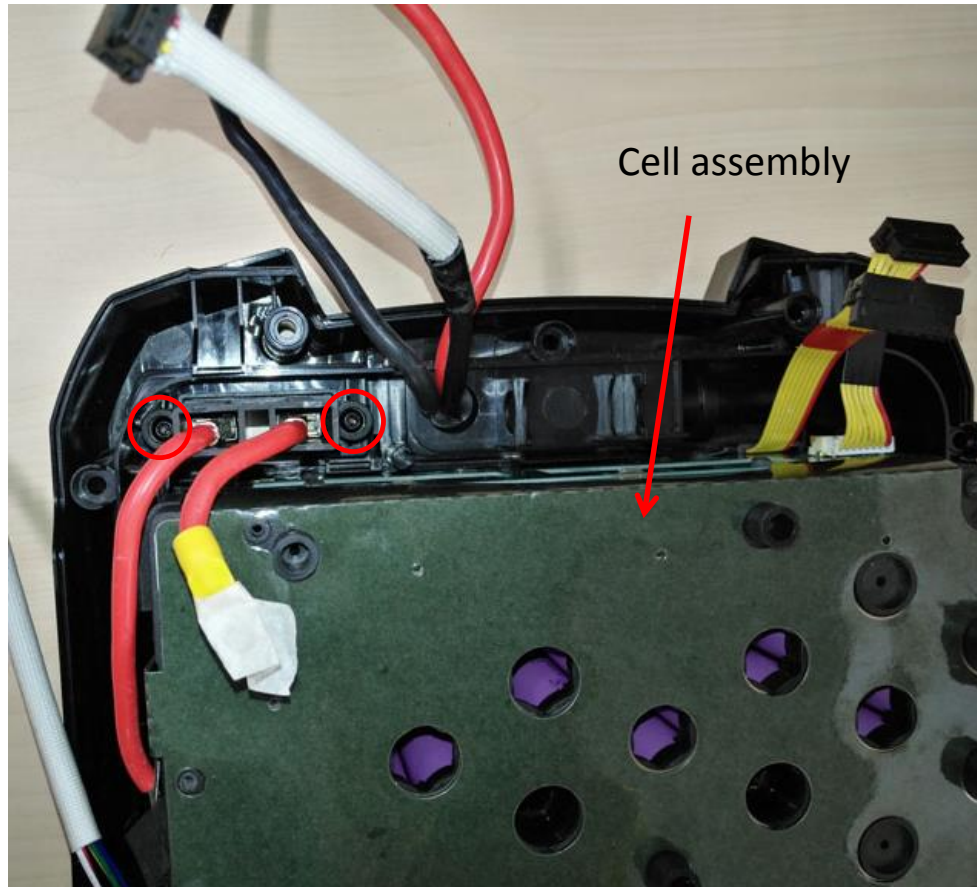
Cell assembly

Description	Part Number	Qty
Screw	5610329001	2

6. Take out the cell assembly from the lower housing and put the cell assembly on a clean flat surface. If the cell assembly is broken, it is recommended to buy a new battery pack.

Cell assembly
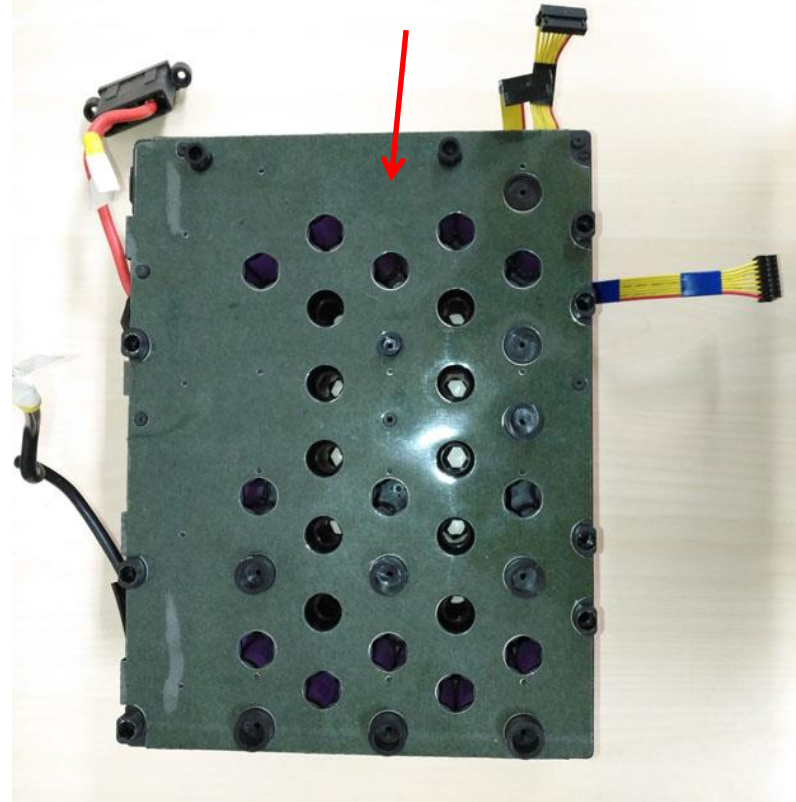
WARNING: Any extra actions on cell assembly is very dangerous. Never expose the cell assembly to water, sun, fire, other conductors, etc.

7. If any wire harness is broken, remove it from the cell assembly and replace with a new one.

Cell assembly

Wire harness #1

Wire harness assembly
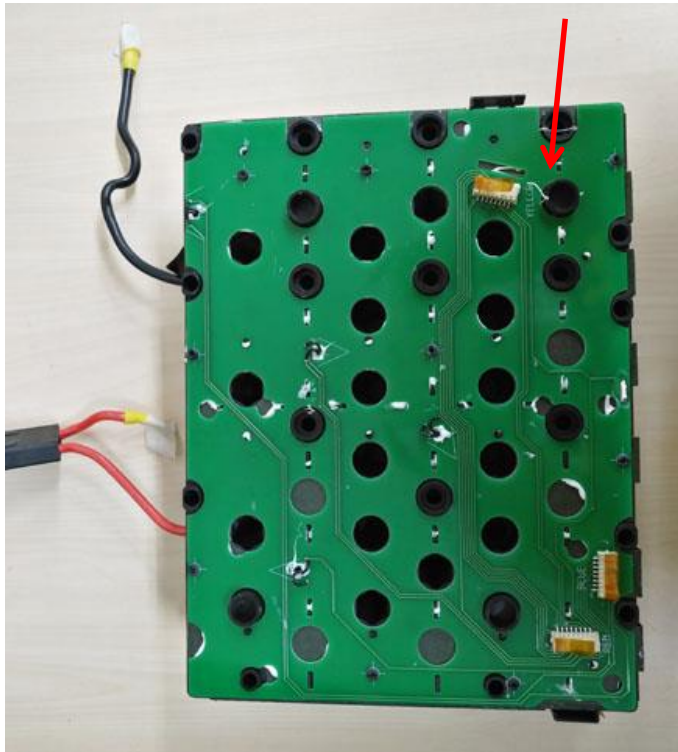
Description	Part Number	Qty
Wire Harness #1	4860428001	1
Wire Harness Assembly	4860541001	1

Replace The Housing cover

8. Remove the two screws and take out the USB/DC port. If it is damaged, replace with a new one.
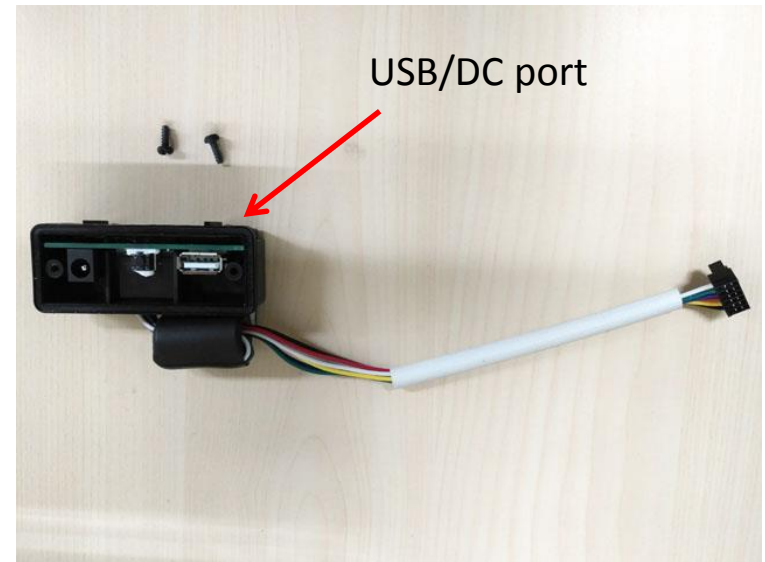
USB/DC port

Description	Part Number	Qty
Screw	5610330001	2
USB/DC Port	2830251001	1

9. Remove the magnetic ring from the wire harness and separate the wire harness from the lower housing. If they are damaged, replace with a new one.
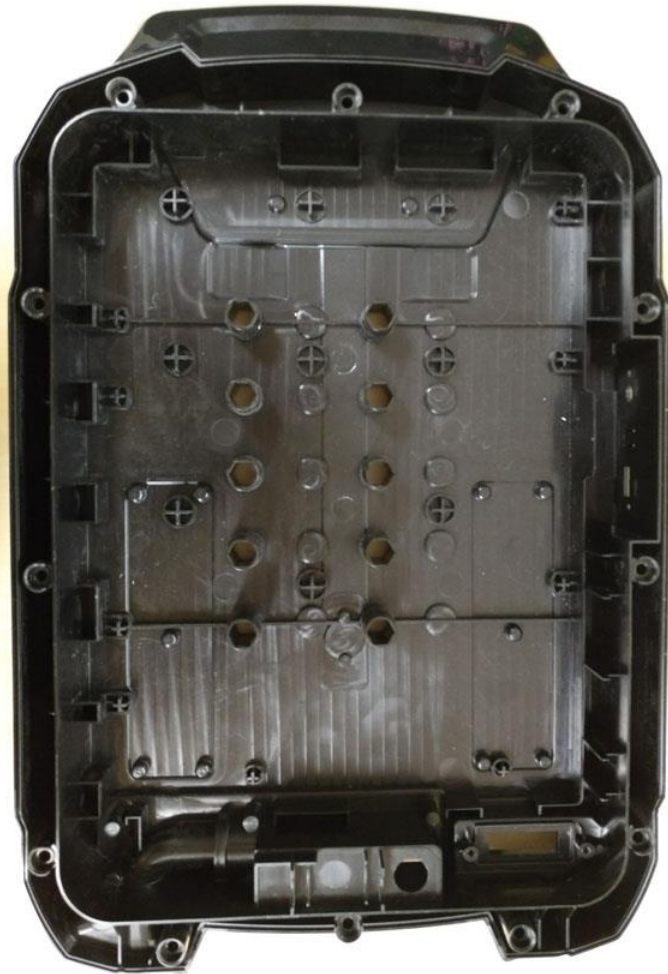
Wire harness
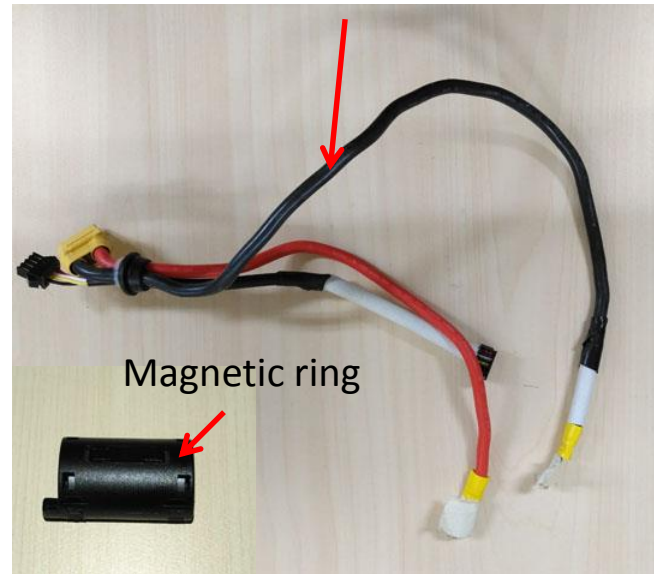
Magnetic ring

Description	Part Number	Qty
Wire Harness	4860427001	1
Lower housing	3128800001	1
Magnetic Ring	3680239001	1

1

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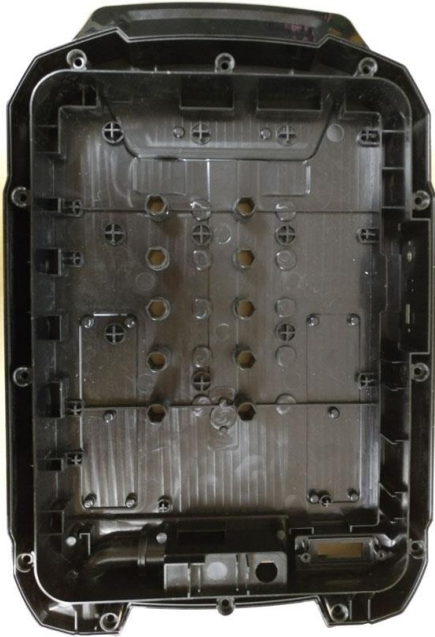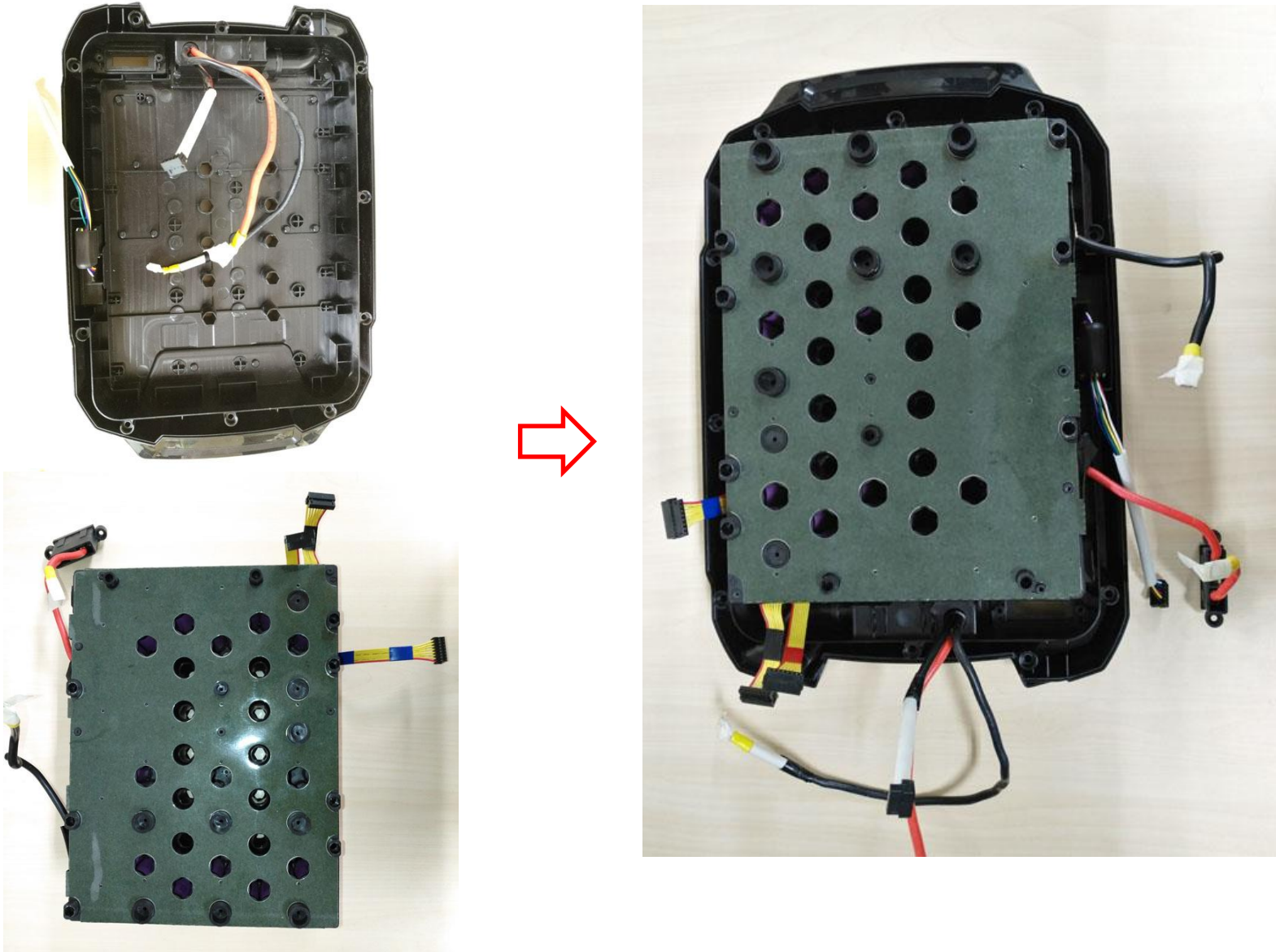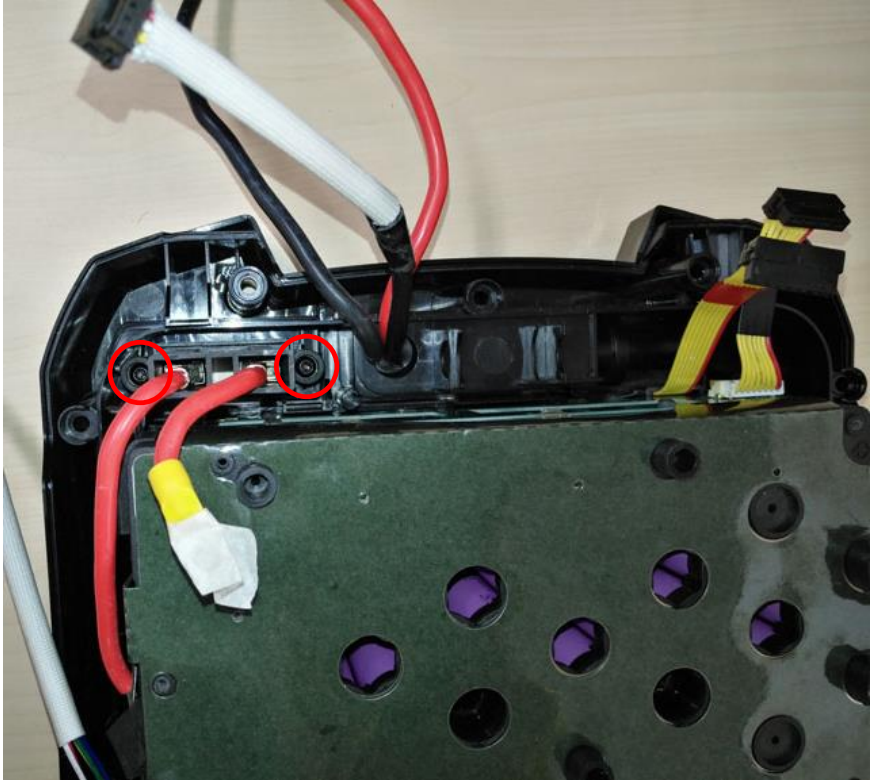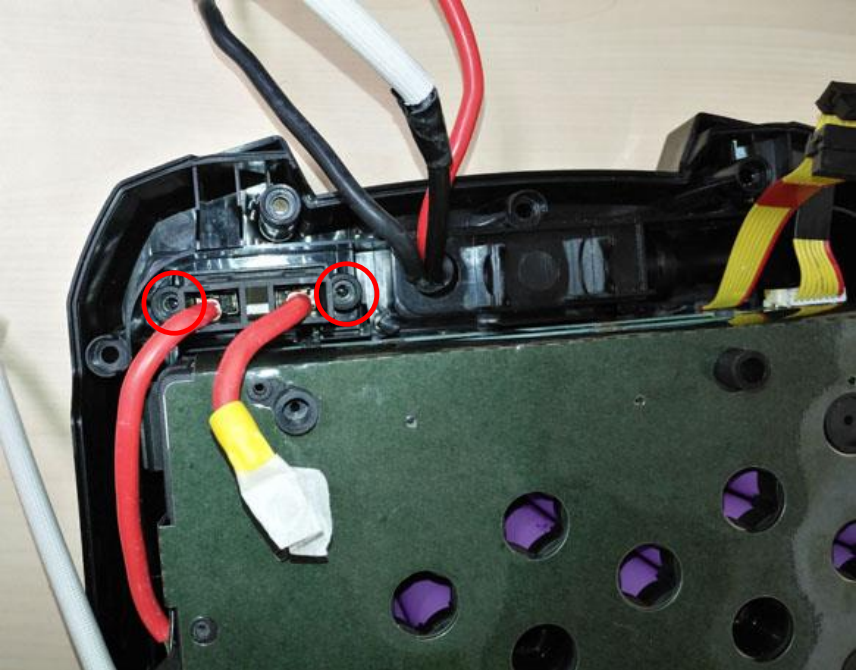
4
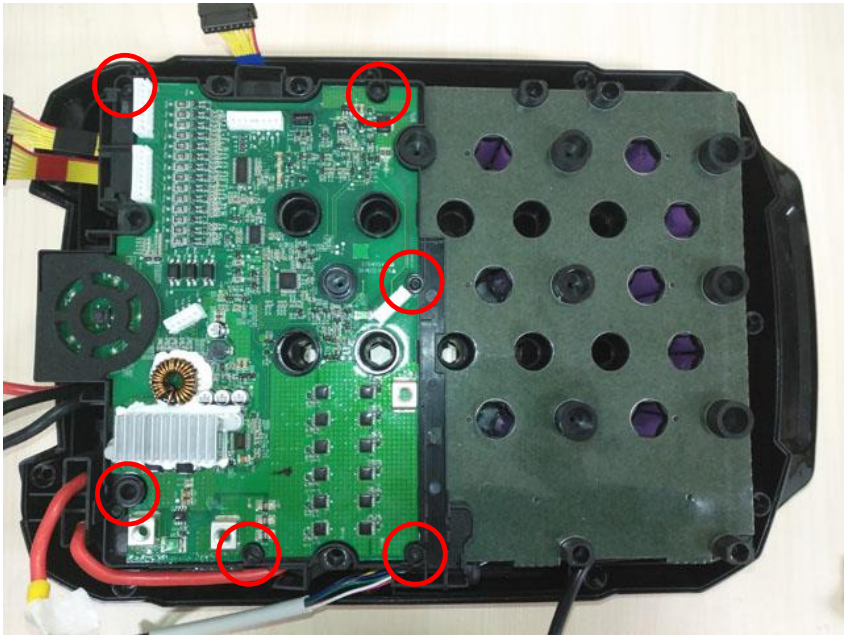
5
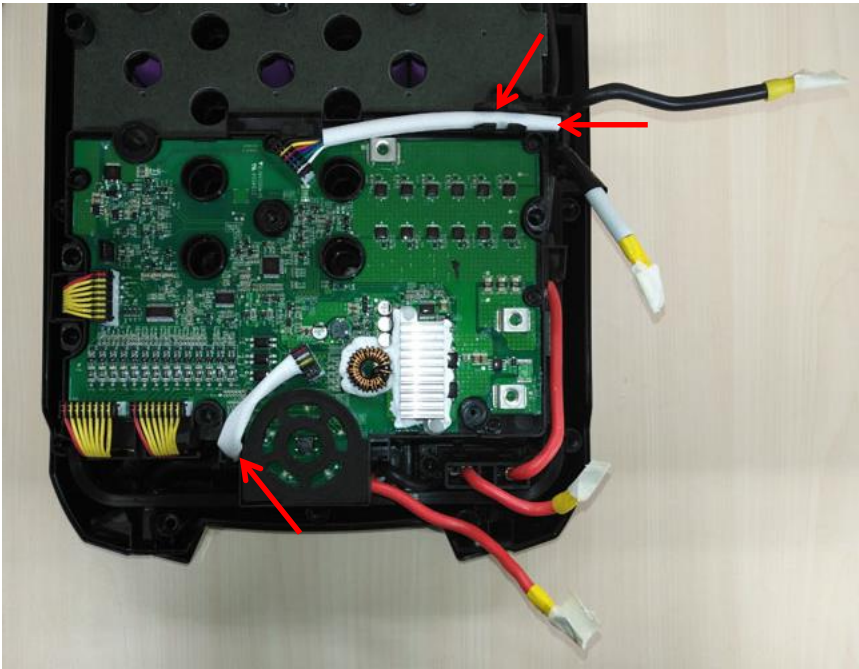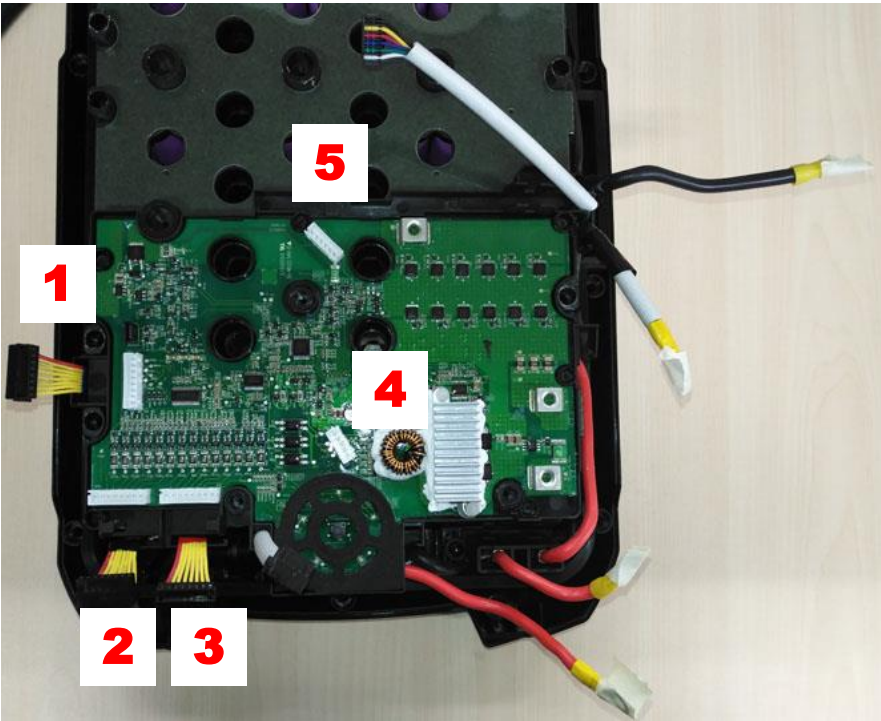
WARNING: You must connect the wire to the PCBA in sequence.

Assembly Flow Chart

BAX1500 Backpack Battery

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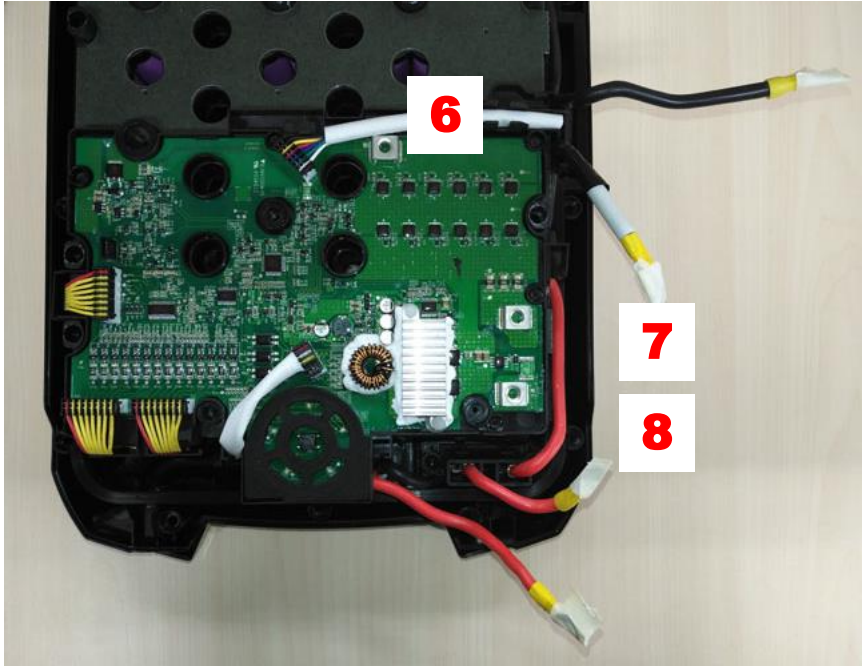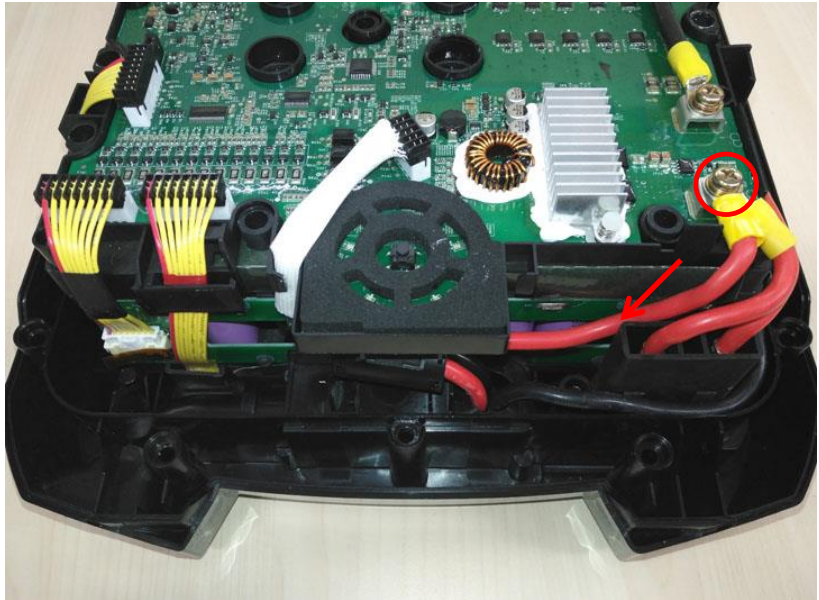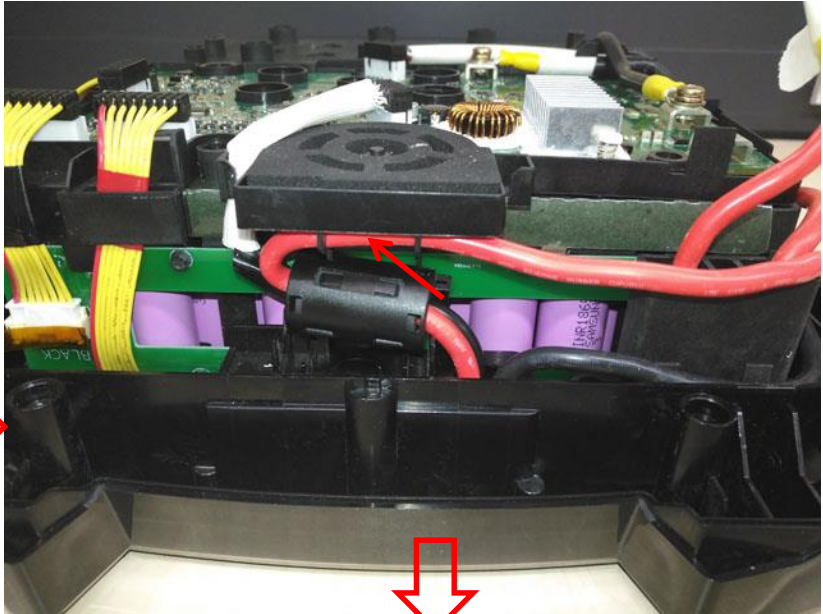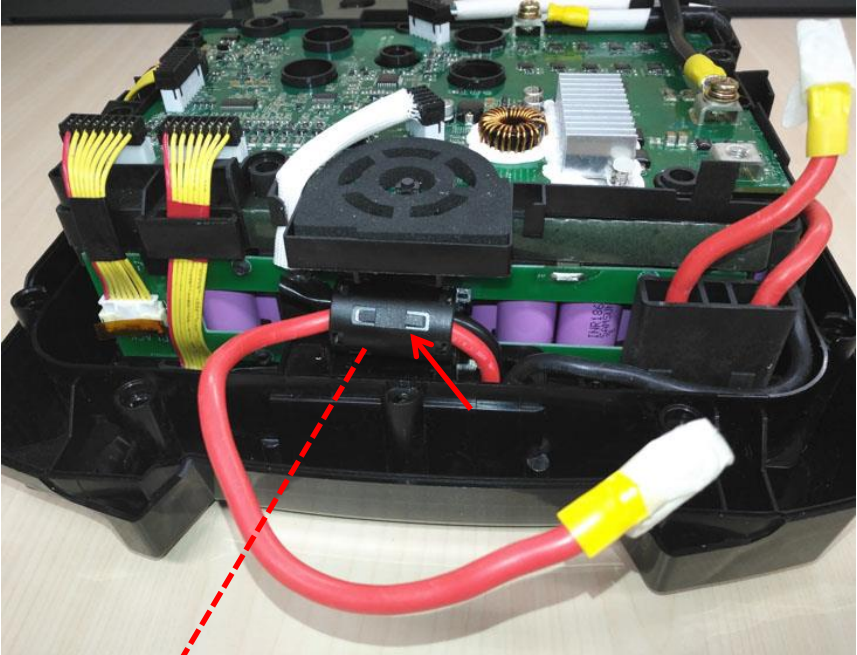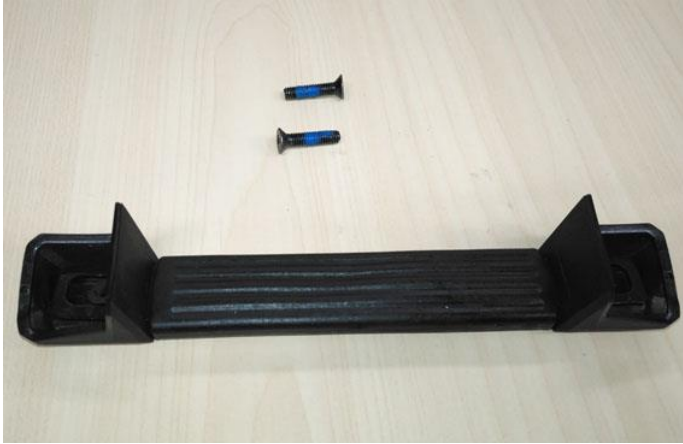**WARNING:** You must connect the wire
to the PCBA in sequence.

7

WARNING: You must connect the wire to the PCBA in sequence.

8

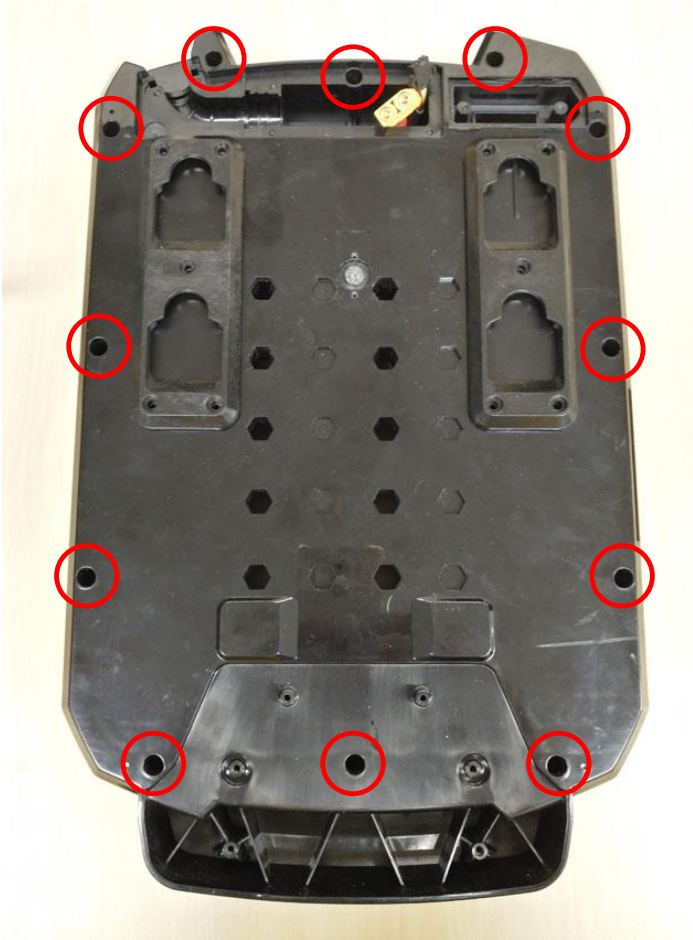**WARNING:** You must connect the wire to the PCBA in sequence.

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Upon continuous product improvement, please using the latest SBOM & Parts list to order spare parts if necessary.