48280AH ASSEMBLING GUIDE

Accessories mounting:

1.Mount the wheels with 16 M6 * 14 hexagon philip screws. As shown in "Figure 1",Set the torque index of the electric screwdriver to 8nm.

2.Rip open the epoxy insulation board A/B/C and stick them to the inner sides of the box. And paste it at the corresponding position as shown in "Figure 2".

Figure 1

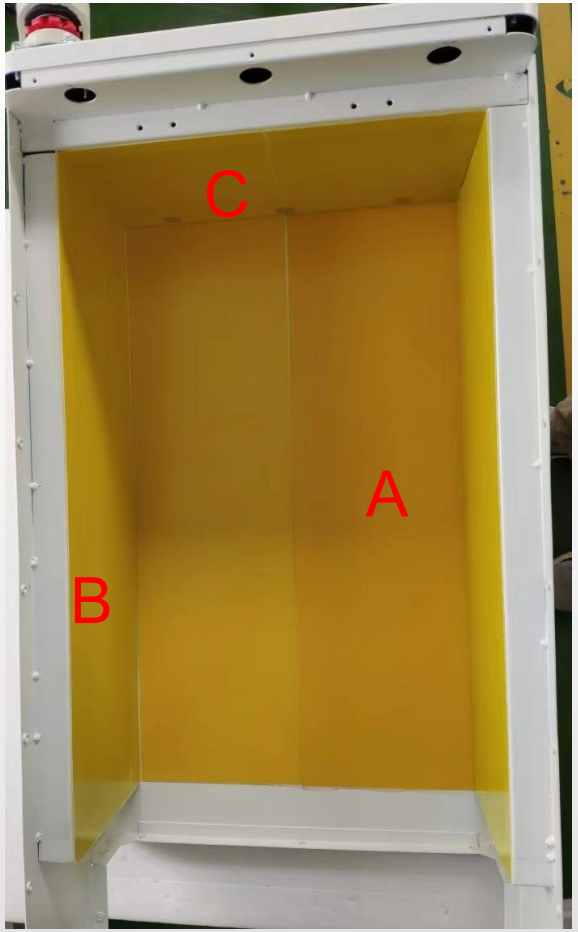


Figure 2

Material: 1 pcs battery box and 4pcs wheel,
2 pcs Epoxy board A,
2 pcs Epoxy board B,
2 pcs Epoxy board C,
16 pcs M6 * 14 hexagon phillip screws.

Tool: electric screwdriver,
10mm sleeve and PH3 cross screwdriver

Battery Cell Placement:

1.As shown in "Figure 1", Paste EVA foam on the surface of the cell, and the position is shown in the schematic diagram.

2.As shown in "Figure 2", Put the cells into the case. Paste epoxy plate B and epoxy plate C to separate cell from cell, and cells from front plate.

3.As shown in "Figure 3", Fix the front plate with M8 * 20 hexagon philips screws. Set the torque index of the electric screwdriver to 12nm.

Material: 16pcs cells,
18pcs cell foams,
2 pcs Epoxy boardA,
1 pcs Epoxy boardB,
2pcs Epoxy boardC,
6pcs M8* 20 hexagon philips screws.

Tool: electric screwdriver ,
13mm sleeve and PH4 cross screwdriver

Figure 1

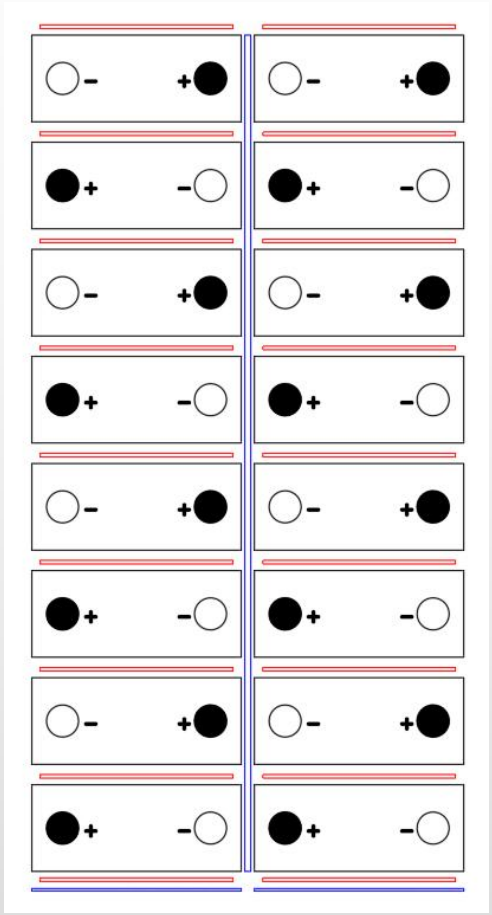


Figure 2

Figure 3

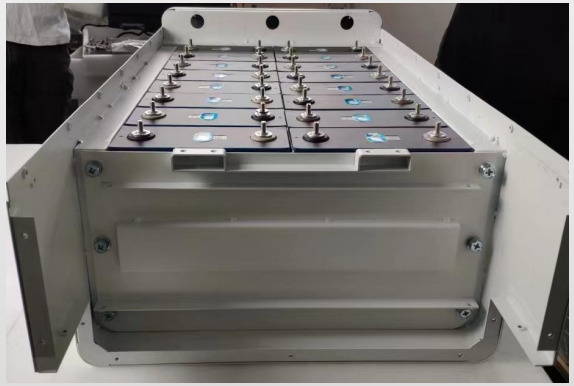


Figure 4

SEPLOS

Top Bracket Insulation:

1. As shown in "Figure 1",Paste EVA foam on the bracket and align the hole position.

Figure 1

2. As shown in "Figure 2", Fix the top bracket with M5 * 8 hexagon philips screws.Set the torque index of the electric screwdriver to 6nm.

Figure 2

Battery cell connection:

3. Put a copper gacket on each termianls to increase contact area, as shown in "Figure 3",

Figure 3

4. Connected the battery cells in series with aluminum bus bars, as shown in "Figure 4"

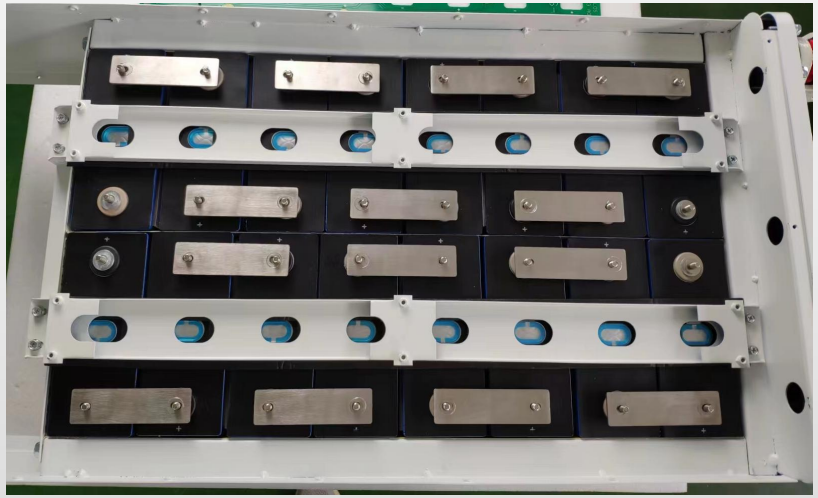


Figure 4

Material: 2 pcs top bracket EVA foams,
2 pcs top brackets,
8 pcs M5* 8hexagon phillips screws,
30 pcs copper gaskets,
14 pcs aluminum bar SF-1,
1 pcs aluminum bar SF-L1.

Tool: Electric screwdriver,
10mm sleeve and PH3 phillips screwdriver

PCB Board Mounting:

1. Fix PCB A/B board with M4 * 8 hexagon phillips screws As shown in "Figure 1". Set the torque index of the electric screwdriver to 4nm.

2. Connect the lug connectors with battery terminals at the corresponding position as shown in "Figure 2".

3. Fix the aluminum bar with M6 flange nuts. Set the torque index of the electric screwdriver to 10nm.

Material: 2 pcs PCB board,
12 pcs M4 * 8 hexagon philips screws,
30 pcs M6 flange nuts.

Tool: electric screwdriver,
10mm sleeve and PH3 philips screwdriver,
Torque wrench.

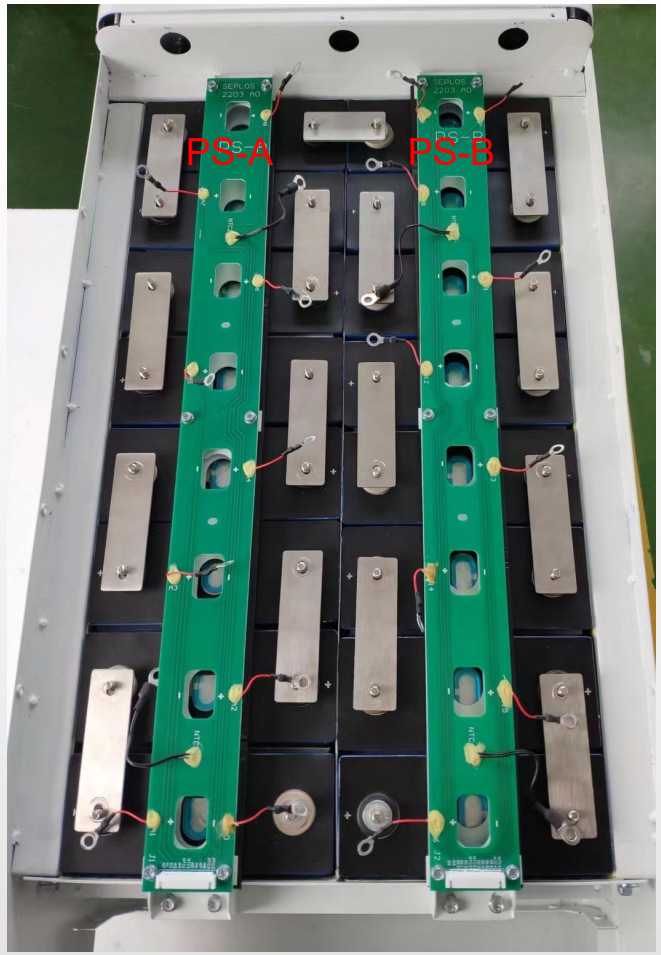


Figure 1

Figure 2

Front plate assembling:

1.As shown in "Figure 1", Mount the BMS on the front panel with M3 * 8 screws. Then install copper bar, BMS wires and display wire.Set the torque of the electric screwdriver to "6Nm".

2. As shown in "Figure 2",Install the terminal sockets with M4 * 10 hexagon flat head screws. Set the torque of the electric screwdriver to "5Nm".

3. Mount the interface board with M3 * 8 philips round head screws. Set the torque of the copper bar screw electric screwdriver to "2Nm".

4. Mount the power switch. Watch the on/off direction.

5. Mount the fuse holder with M6 * 14 hexagon philips screws. Set the torque of the electric screwdriver to "8Nm". Then install the fuses and copper bars: YS-4, YS-2. Set the torque of electric screwdriver to "8Nm".

Figure 1

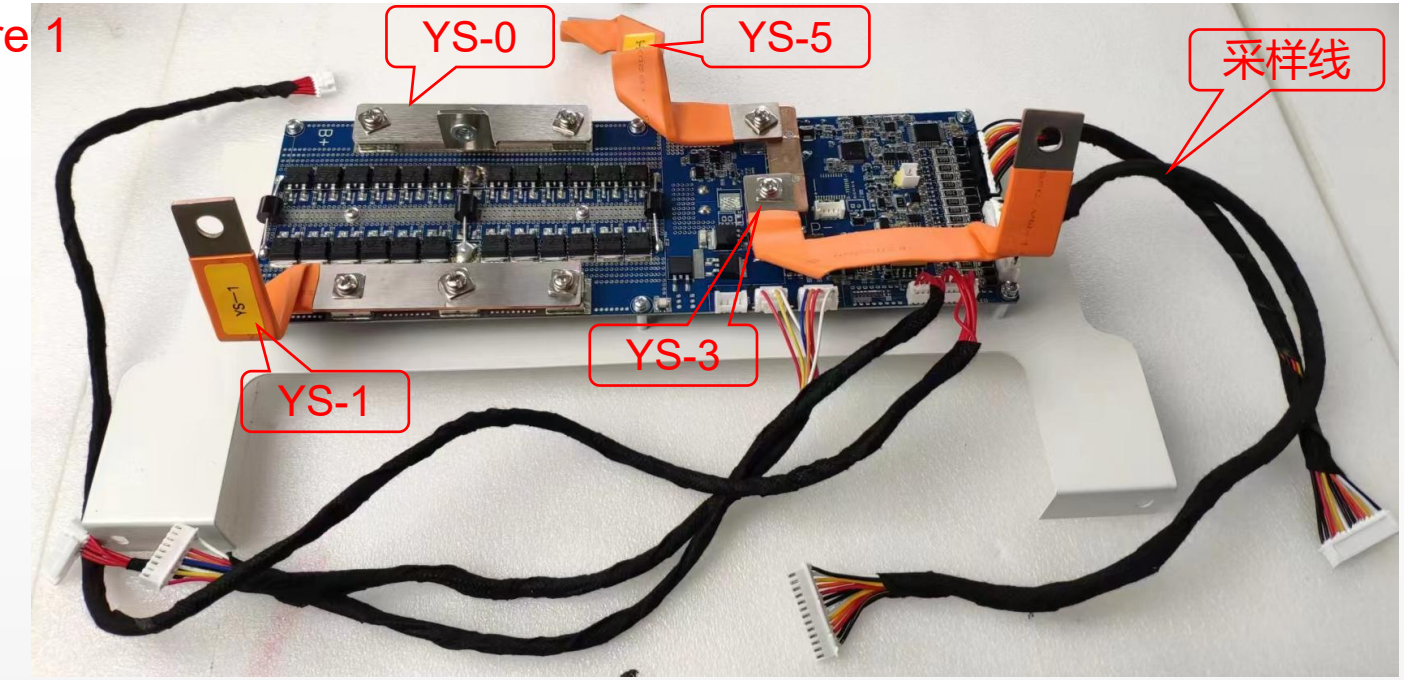
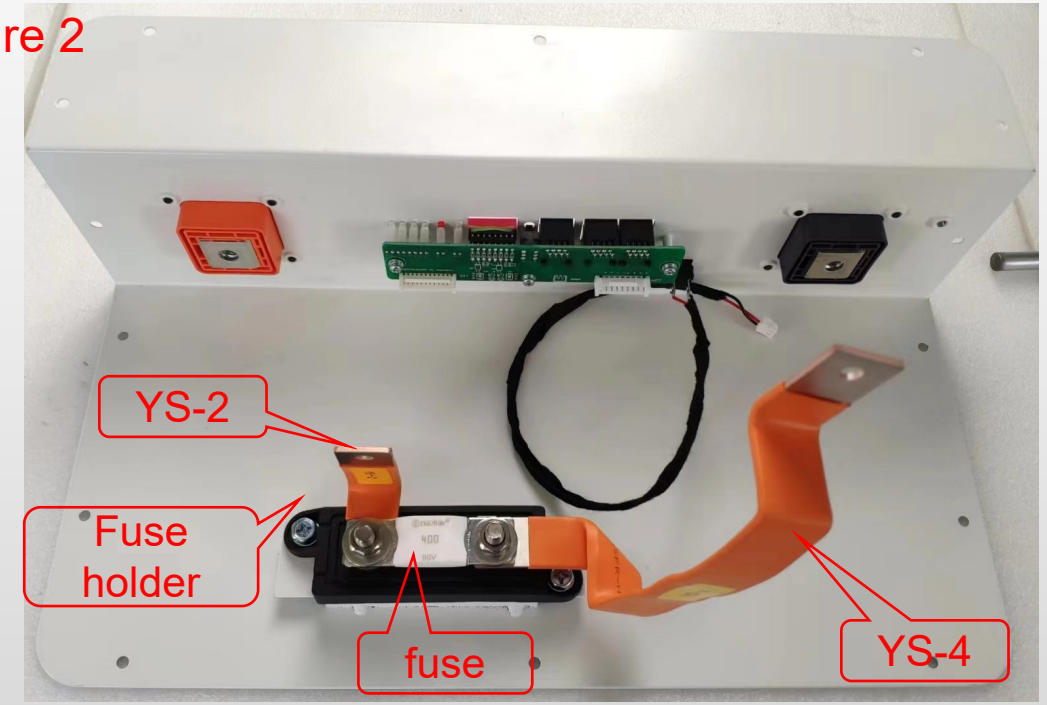


Figure 2



Material: BMS*1 PCS,
BMS bracket*1 PCS,
Copper bar:YS-0*1 PCS, YS-1*1 PCS, YS-2*1 PCS, YS-3*1 PCS, YS-4*1 PCS, YS-5*1 PCS,
BMS wire 13P-135 black*1 PCS and BMS wire 13P-135 white*1 PCS,
Display cable*1 PCS,
Front panel*1 PCS,
Connector socket*2 PCS,
M4 * 10 hexagoflat head screw * 8 PCS,
External interface board * 1 PCS,
M3 * 8 philips round head screw sets(with washer and spring)* 9 PCS,
Power switch * 1 PCS,
Fuse * 1 PCS and Fuse holder * 1 PCS,
M5 * 8 hexagon philips screw sets(with washer and spring) * 2PCS,

Tool: Electric screwdriver,
PH3cross screwdriver,
PH2cross screwdriver,
PH4cross screwdriver,
Torque wrench

SEPLOS

Instal front bracket and front panel:

1. As shown in "Figure 1" and "Figure 2", Fix the front bracket with M5 * 14 hexagon philips screws.Set the torque index of the electric screwdriver to 6nm.

2. As shown in "Figure 3", Fix the front panel with M4 * 10 hexagon countersunk screws. Set the torque of the electric screwdriver to 5nm

3. As shown in "Figure 4", Connect the external interface board and power switch to the BMS with wires.

4. As shown in "Figure 5", B+/B- terminals is locked with M6 flange nut. The torque of electric screwdriver is "10nm".
P+/P- terminals is locked with M8*16 hexagon philips screws. The torque of electric screwdriver is set to "12nm". YS-2 copper bar is locked with M6*14 hexagon philips screw.

5. Connected BMS to cells with BMS wires as shown in figure 5.

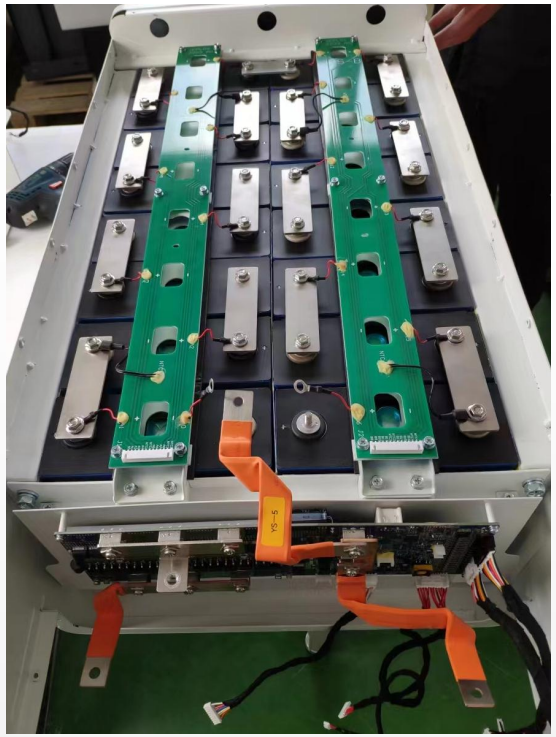


Figure 1

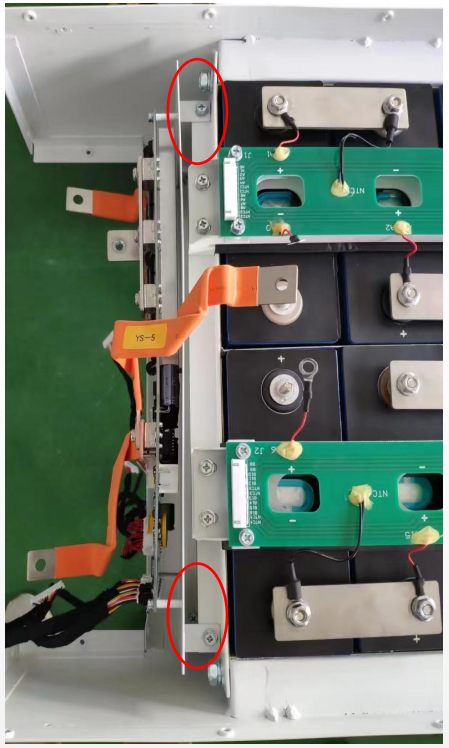


Figure 2

Figure 3

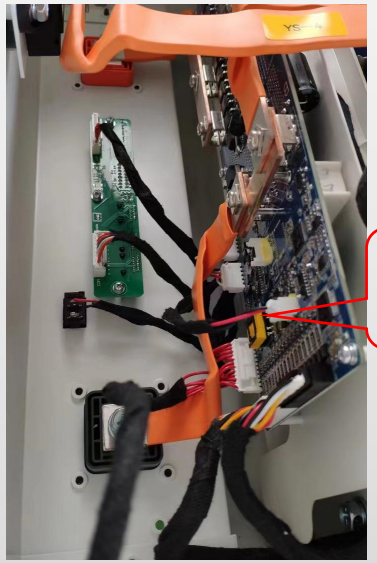


Figure 4

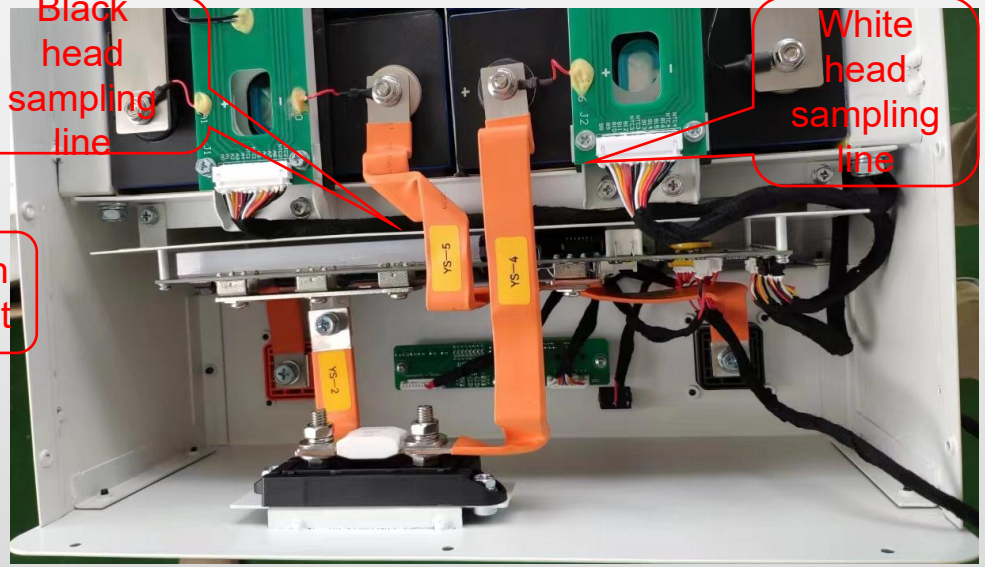


Figure 5

Material: M5*14 hexagon philips screw set 4pcs,

M8*16 hexagonphilips screw set 2pcs,

M6*14 hexagonphilips screw set 1pcs,

M4*10 hex socket countersunk screw 14PCS,

M6 flange nuts * 2PCS.

Tool: Electric screwdriver ,

PH4cross screwdriver,

10mm sleeve and 13mm sleeve.

Case Cover Installation

1. As shown in "Figure 1", install the display screen and LED light with M3 * 8 phililps round head screws. And set the torque of the electric screwdriver to "2Nm".

2. As shown in "Figure 2",Insert the display and LED light with cables

3. As shown in "Figure 3/4 ", Mount the cover with M4 * 10 countersunk screws. The torque of the electric screwdriver is set to "5Nm".

4.The battery pack assembly completed.
And BMS can get the real capacity of the battery pack by:

- Fully charge the battery pack until stop charge automatically. (recommended charging current is 100A)
- Then fully discharge the battery pack until can not discharge. (recommended discharging current is 100A)
- Charge to 50% for storage.
- Complete capacity learning

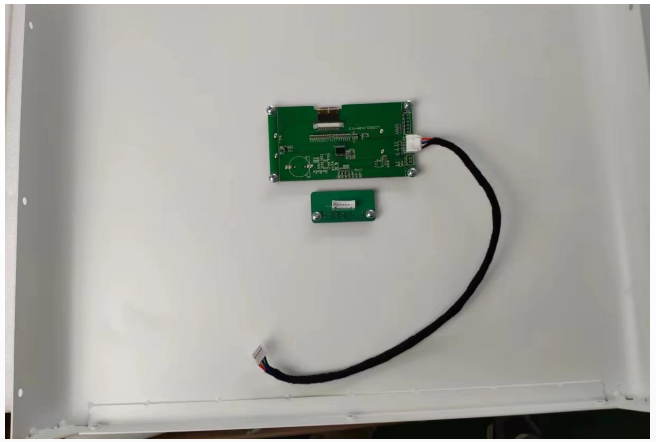


Figure 1

Figure 2

Figure 3

Figure 4

Material: Case cover * 1PCS,

Display * 1PCS,

LED light plate * 1 PCS,

M3 * 8 philips round head screw set* 6PCS,

M4 * 10 hexago countersunk screw * 17PCS,

PVC sticker * 1 PCS.

Tool: Electric screwdriver ,

PH3cross screwdriver,

Hexagonal H2.5.