








WI-Replace Temperature Sensor of Hex 3106





Purpose:

The purpose of the following instructions is to guide you how to replace the temperature sensor of Hex 3106 – BPD10440/1

Tools :

No.	Name	Picture
1	T20 screw driver	
2	T30 screw driver	
3	Side cutters	
4	Tape measure	
5	Crimp tool	
6	Thermal drying gun	
7	DMM	

Materials:

No.	Name	Quantity	Picture
1	Sensor	1	
2	Cable tie	2	
3	Φ10*100mm heat shrinking tubing WITH GLUE	1	
4	Crimp terminals	2	

Procedure 流程:

Step1:

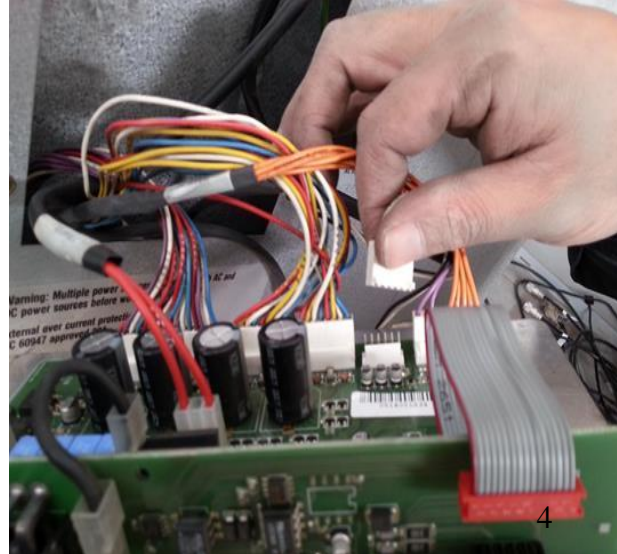
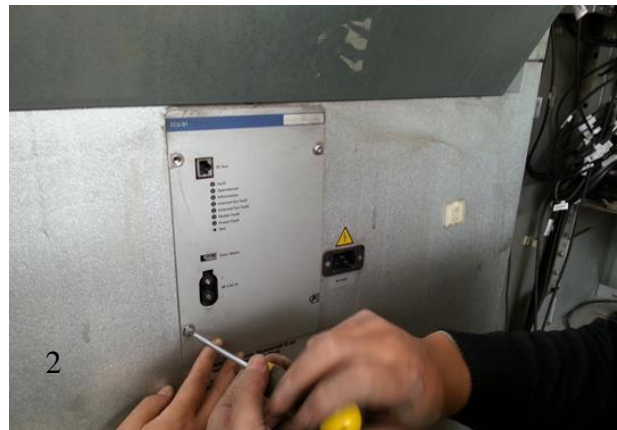
Open the door of the cabinet, and then cut off the power supply of Hex 3106.





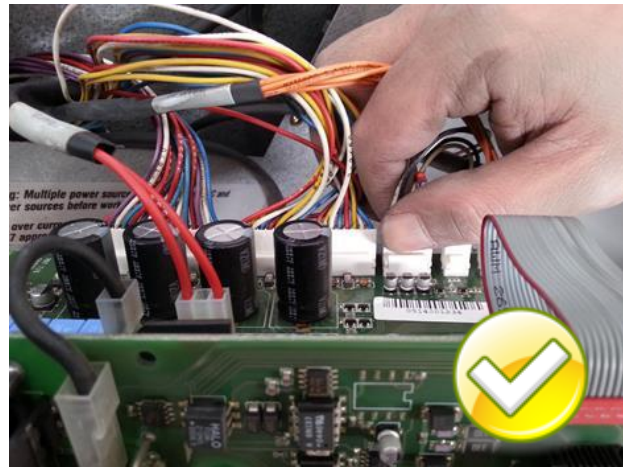
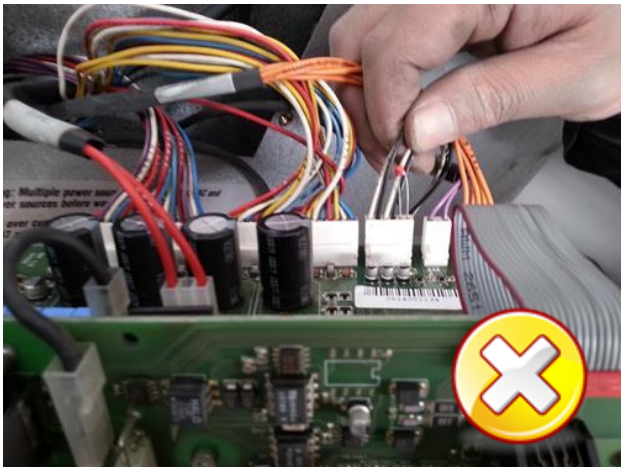
Step 2:

Remove the cover of PCBA by T20 screw driver, and then unplug the connector of sensor.



Notice:

Please don't pull the cable directly when unplug the connector of sensor from PCBA, pull the connector is the right way.



Step 3

After removing the plug, measure the indoor and the outdoor (ambient) thermistor resistance value with the digital multimeter. This needs both to be 2,7Kohm @ 25 Celsius



Outdoor (ambient)
Pin 1-2 (Black-white)

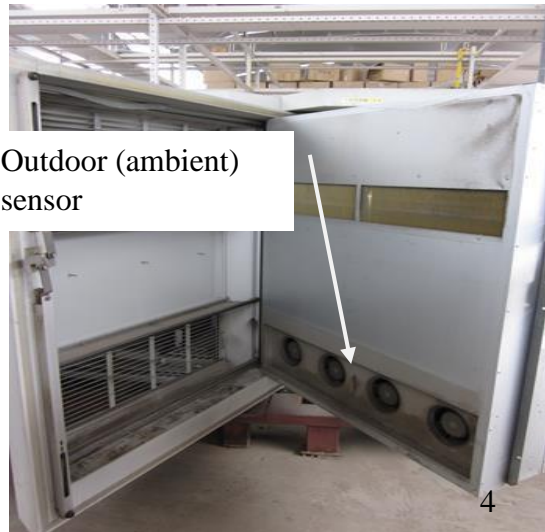
Indoor (supply air)
Pin 3-4 (black-white)

If the values are wrong please go to step 4 for exchanging the outdoor (ambient) and/or Step 14 for exchanging the indoor (supply) sensor.

The sensor is the same value and specification

Step 4:

Remove the 3pcs screws by T30 screw driver, and then push the Hex out from the door of cabinet.



Step 5:

Remove 12pcs screws of external fan cover by T20 screw driver, and then pull the external fan assembly out.



Step 6:

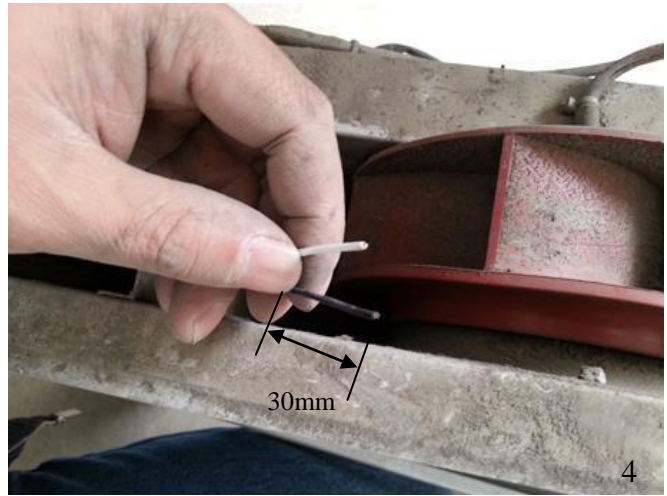
Cut the cable ties which fixing the ambient sensor, then pull the sensor cable out of the cover.



Step 7:

Cut off the sensor cable by side cutters, length is about 100mm. remove the outside layer insulation of sensor cable, the wire length is about 30mm. remove two wires layer insulation of sensor cable, the length is about 5mm





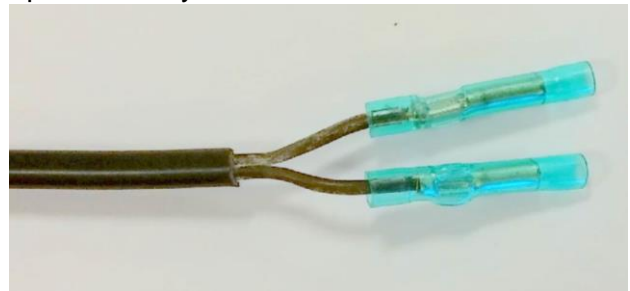
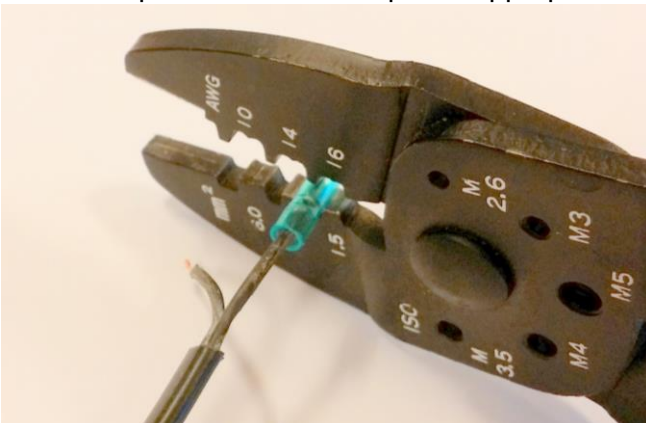
Step 8:

Pull the cable through the $\Phi 10\text{mm}$ heat shrinking tubing;



8-1:

Place crimp terminal and crimp with appropriate crimp tool one by one



Step 9

Strip the new sensors wires and crimp these to the crimp terminals

Measure the sensor connection according step 3 before proceeding to step 10, to ensure correct connection.



Step 10:

Slide the $\Phi 10$ mm heat shrinking tubing over the crimp terminals, tighten it by hot air gun



Please acknowledge that the fixed glue inside the shrinking tube, is coming out when heating, in order to close each tube end for the connection to be 100% water tight.

Step 11:

Put the sensor cable on the right location (picture 1-2), and then use 2 pcs cable ties to fix the sensor cable.(pic 3-4)



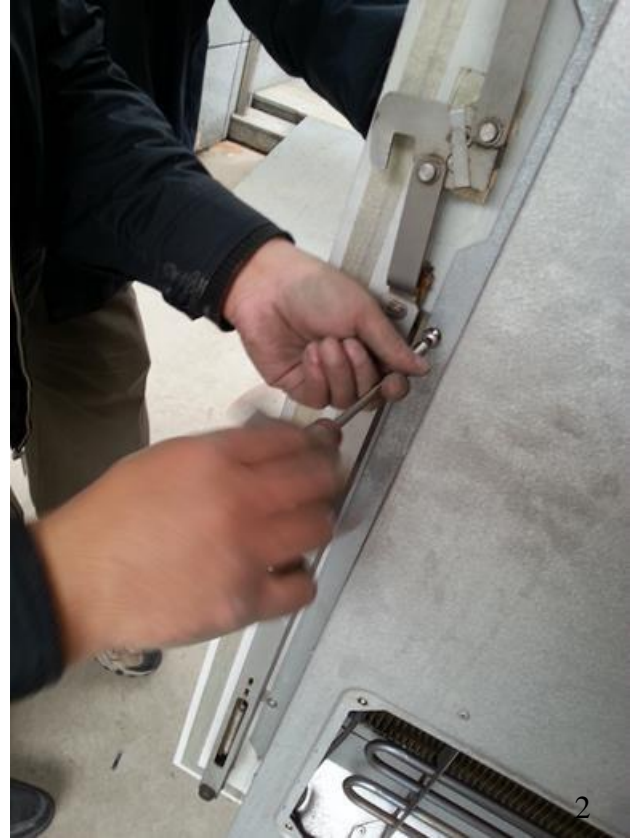
Step 12:

Use 12pcs screws to fix external fan assembly by T20 screw driver.



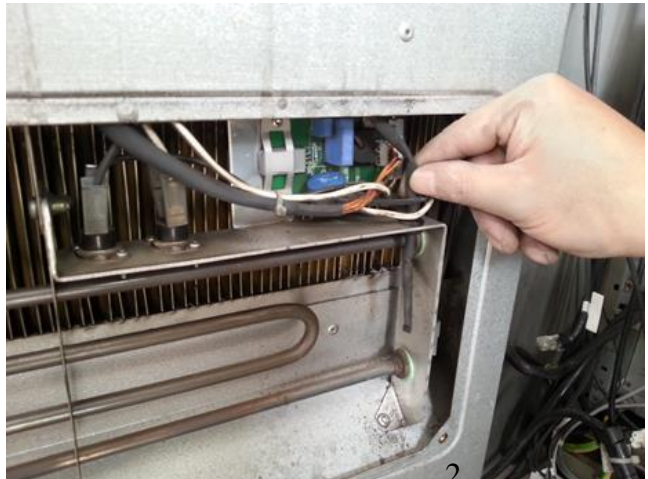
Step 13:

Push the Hex 3106 into door cover, and use 3pcs screws fix the Hex unit by T30 screw driver.



Step 14:

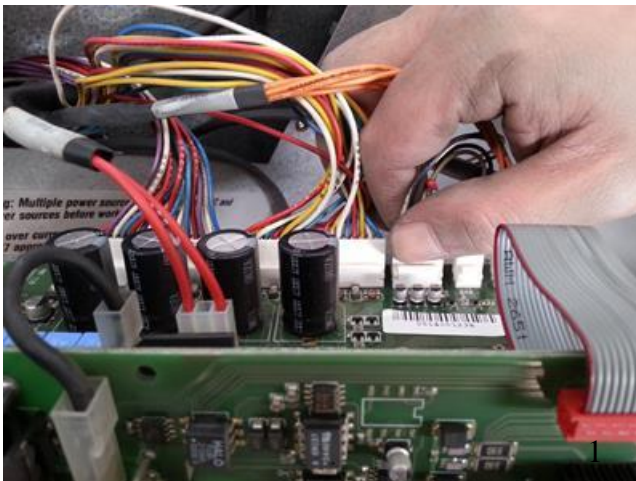
If the internal sensor need to be replaced, please remove the service cover by T20 screw driver, and then follow the produce of replace the ambient sensor.



Measure the sensor connection according step 3 before proceeding to step 15

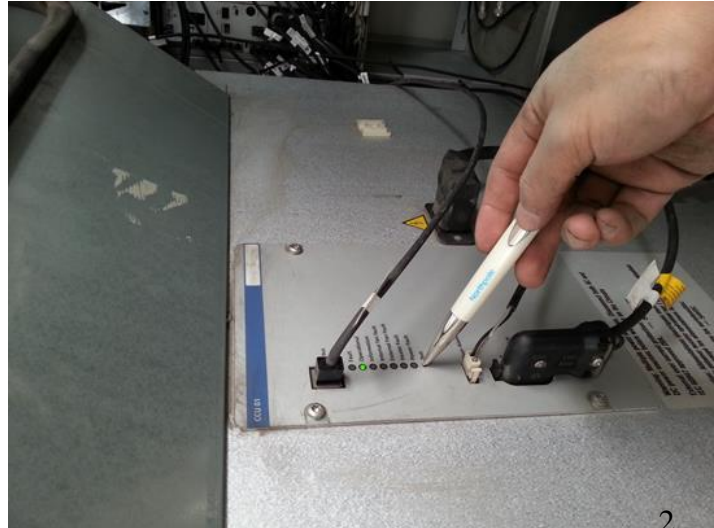
Step 15:

Connect the connector of sensor cable with PCBA, and fix the cover of PCBA by T20 screw driver.



Step 16:

Connect the power cable & single cable with Hex unit, then power on, press the self-test button so that for the unit self-testing.



The feedback is as follows on the seven LED after the self-test that last 120 seconds :

The 120s self-test procedure step by step starting with LED test one by one:

After 120second the result can be read:

1. Fault (Red)
2. Operational (Green)
3. Information (Yellow)
4. Internal fan fault (Yellow)
5. External fan fault (Yellow)
6. Heater fault (Yellow)
7. Power fault. (Yellow)

When No. 2 LED (green) is on, the self-test was successful and unit is in operation.

Step 17:

Finish the procedure & close the door of cabinet.