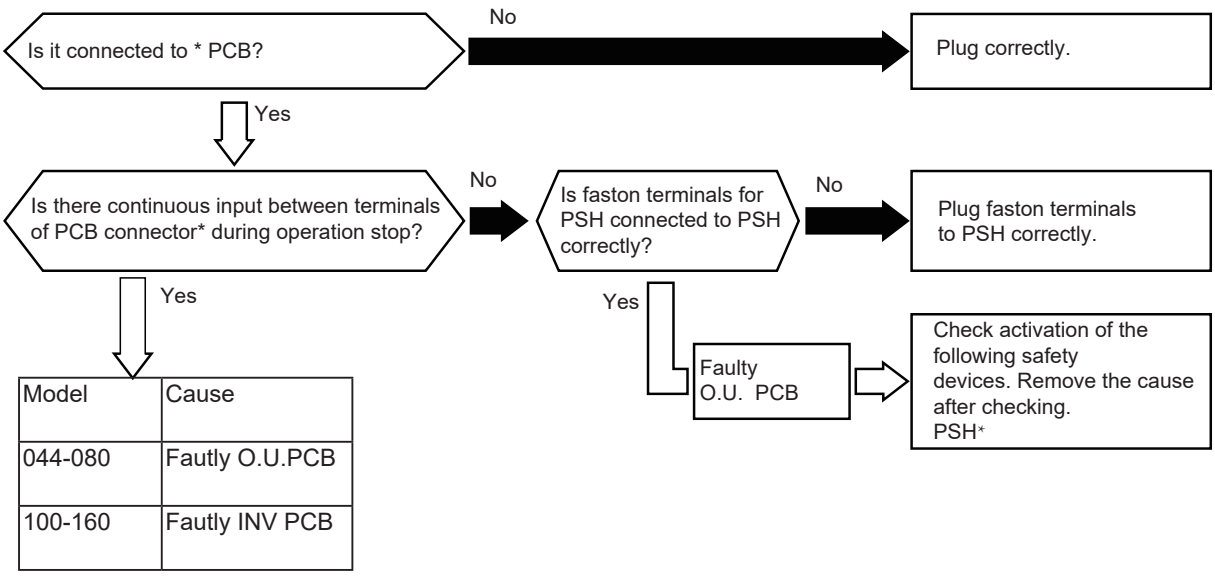
1.2.3.1 **Troubleshooting by Alarm Code (O.U.)**

| Alarm Code 07 | Activation of the safety device (high pressure switch) in the outdoor unit |
|---|---|

Alarm code is displayed on the master controller/ the 7-segment of O.U. display PCB / the 7-segment of I.U. PCB1.

★ PSH is activated 6 times in one hour the alarm occurs.




| Model | Cause |
|---|---|
| 044-080 | Fautly O.U.PCB |
| 100-160 | Fautly INV PCB |

(*)

| Model | PCB connector | Pin | PSH |
|---|---|---|---|
| 044-080 | PCN8(O.U.PCB) | #1-#3 | 4.4MPa |
| 100-160 | PCN401(INV PCB) | #1-#3 | 4.3MPa |

| Phenomenon | Cause | | Check item | Action (Turn OFF Main Switch) |
|---|---|---|---|---|
| Activation of the high-pressure switch due to the excessively high discharge pressure (PSH) | Outdoor Unit:<br>Insufficient Air Flow to the Heat Exchanger<br>(Outdoor Heat Exchanger during the Cooling Process)<br>Indoor Unit:<br>Insufficient Water Flow to the Heat Exchanger<br>Indoor Heat Exchanger (during the Heating Process) | | Check the heat exchanger for dust or for clogging | Remove the dust or the clogging |
| | | | Check the air filter for dust | Remove the dust |
| | | | Check for any obstacles at the inlet or the outlet of the heat exchanger | Remove the obstacles |
| | | | Check the service area | Secure service area |
| | | | Check the speed<br>(Outdoor Fan: Cooling) | Replace the fan motor if faulty |
| | | | Check the speed of the water pump | Replace the water pump if faulty |
| | Expansion valve malfunction or abnormality | | Disconnected | Fix the looseness or reconnect the connector |
| | | | Fully closed and locked | Replace the expansion valve |
| | | | Check the operation sound of the coil | Replace the coil |
| | | | Check the Discharge Gas thermistor | Replace the thermistor |
| | | | Check the fastening of the thermistor | Re-fasten the thermistor |
| | Excessively High Water Temperature in the indoor unit | | Calculate the heat load | Reduce the heat load or use a bigger unit |
| | | | Check minimum water flow | Provide good circulation |
| | | | Check for collapse in water cycle | Remove the short-circuited |
| | | | Check for other heat source | Stop the heat source |
| | Faulty High-Pressure Switch | Faulty Pressure Switch | Measure the discharge pressure. Check the continuity after the decrease of the pressure | Replace the pressure switch if faulty |
| | | Insufficient Contacting | Measure the resistance by means of a tester | Fix the looseness. Replace the connector |
| | | Incorrect Connection | Check the connections | Repair the connections |
| | Overcharged refrigerant | | Check the cycle operation temp. | Charge the refrigerant correctly |
| | Mixture of the non-condensate gas in the refrigerant cycle | | Check the air temp. and the pressure | Recharge the refrigerant after the vacuum pumping |
| | Clogging of the discharge piping | | Check for clogging | Remove the clogging |
| | Liquid line stop valve or gas line stop valve is not in operation | | Check the stop valves | Fully Open the stop valves |