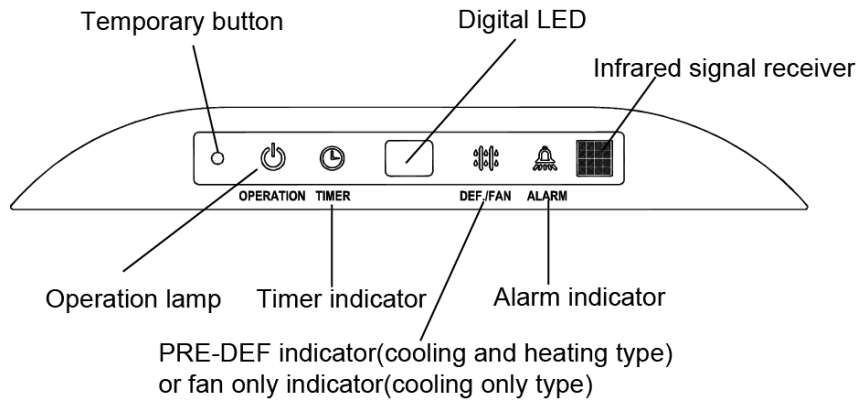


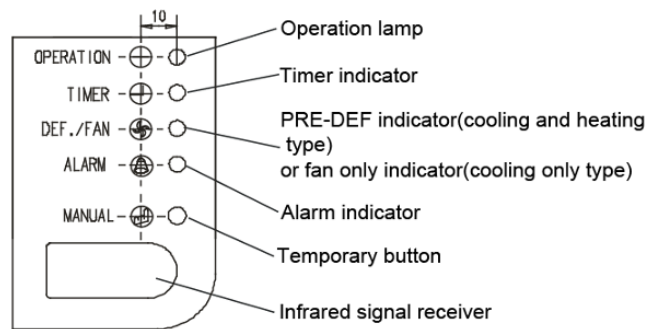
## 2. Troubleshooting

### 2.1 Display board

#### 2.1.1 Icon explanation on indoor display board (Big cassette).



#### 2.1.2 Icon explanation on indoor display board (Ceiling & floor)



## 2.2 Indoor unit malfunction

| NO.  | Malfunction   | Running lamp | Timer lamp | Defrosting lamp | Alarm lamp | Display(nixie tube) |
|--|---|--------------|------------|-----------------|------------|---------------------|
| 1  | Communication malfunction between indoor and outdoor units. | X            | ☆          | X               | X          | E1                  |
| 2  | Open or short circuit of T1 temperature sensor              | ☆            | X          | X               | X          | E2                  |
| 3  | Open or short circuit of T2 temperature sensor              | ☆            | X          | X               | X          | E3                  |
| 4  | Open or short circuit of T2B temperature sensor             | ☆            | X          | X               | X          | E4                  |
| 5  | Water-level alarm malfunction                               | X            | X          | X               | ☆          | EE                  |
| 6  | EEPROM malfunction  | X            | X          | ☆               | X          | E7                  |
| 7  | Outdoor unit malfunction                                    | X            | X          | X               | ◎          | Ed                  |
| X(off)      ☆(5Hz)      ◎(flash at 0.5Hz)<br>Note: Digital display is only available for 4-way cassette. |   |              |            |                 |            |                     |

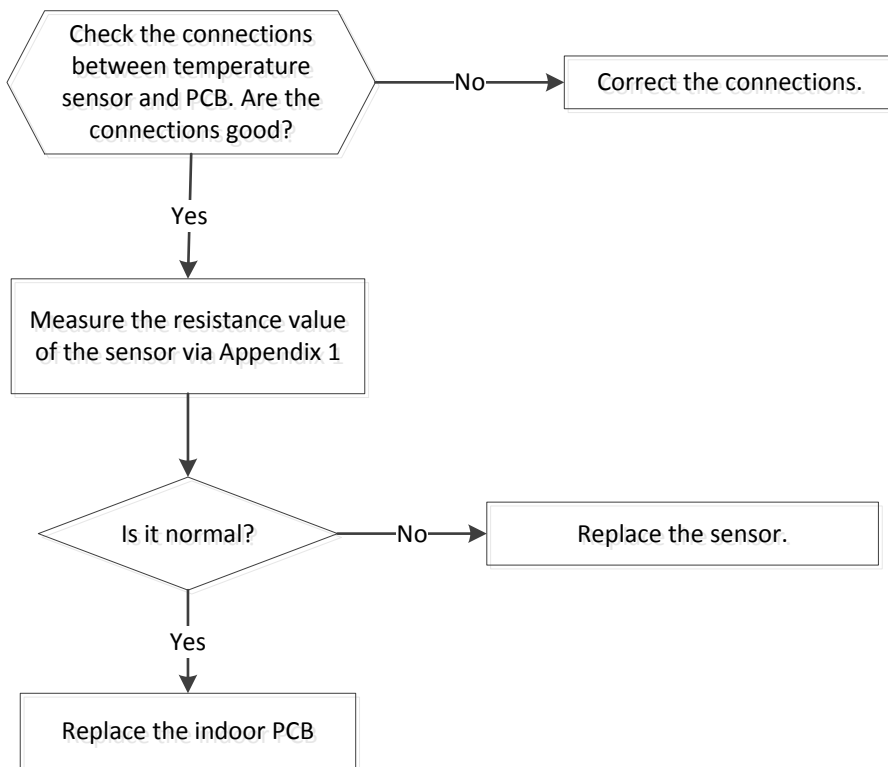
## 2.3 Outdoor unit malfunction

| Display | Malfunction or Protection  |
|---------|--|
| E0      | Outdoor EEPROM malfunction   |
| E2      | Communication malfunction between indoor and outdoor units         |
| E3      | Communication malfunction between IPM board and outdoor main board |
| E4      | Open or short circuit of outdoor temperature sensor                |
| E5      | Voltage protection of compressor                                   |
| P0      | Top temperature protection of compressor                           |
| P1      | High pressure protection(Only for 36K~52K)                         |
| P2      | Low pressure protection(Only for 36K,~52K)                         |
| P3      | Current protection of compressor                                   |
| P4      | Discharge temperature protection of compressor                     |
| P5      | High temperature protection of condenser                           |
| P6      | IPM module protection  |
| P7      | High temperature protection of evaporator                          |

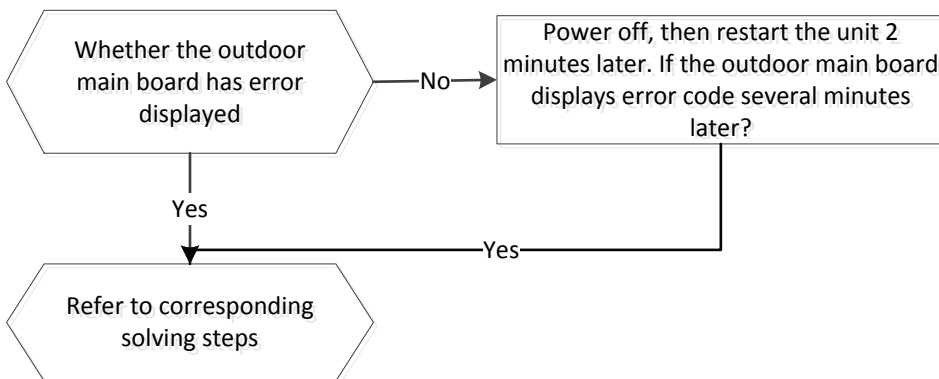
## 2.4 Solving steps for typical malfunction

### 2.4.1 For the indoor unit

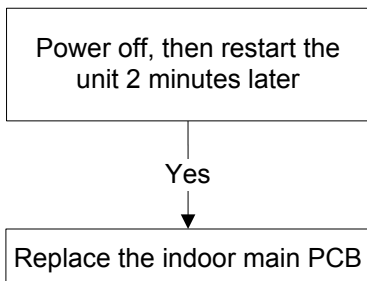
#### 2.4.1.1 Open or short circuit of temperature sensor



#### 2.4.1.2. Outdoor unit malfunction

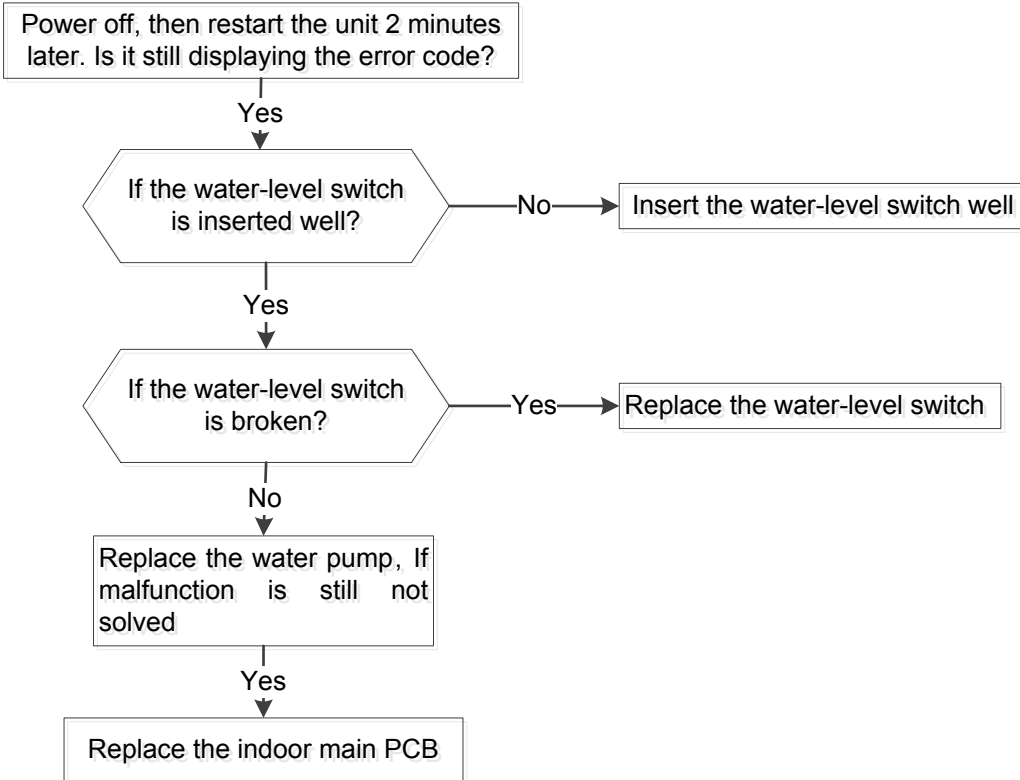


#### 2.4.1.3. Indoor EEPROM malfunction



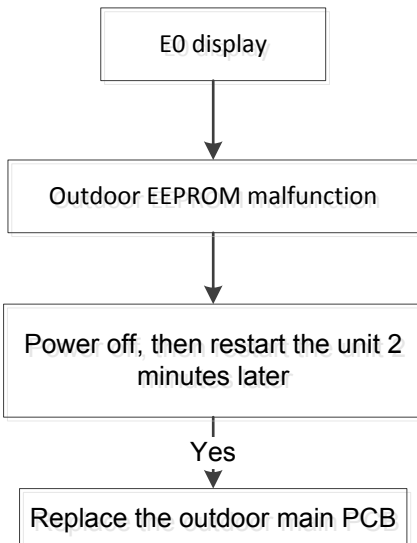
EEPROM: An electrically erasable programmable read-only memory whose contents can be erased and reprogrammed using a pulsed voltage.

2.4.1.4. Water-level alarm malfunction



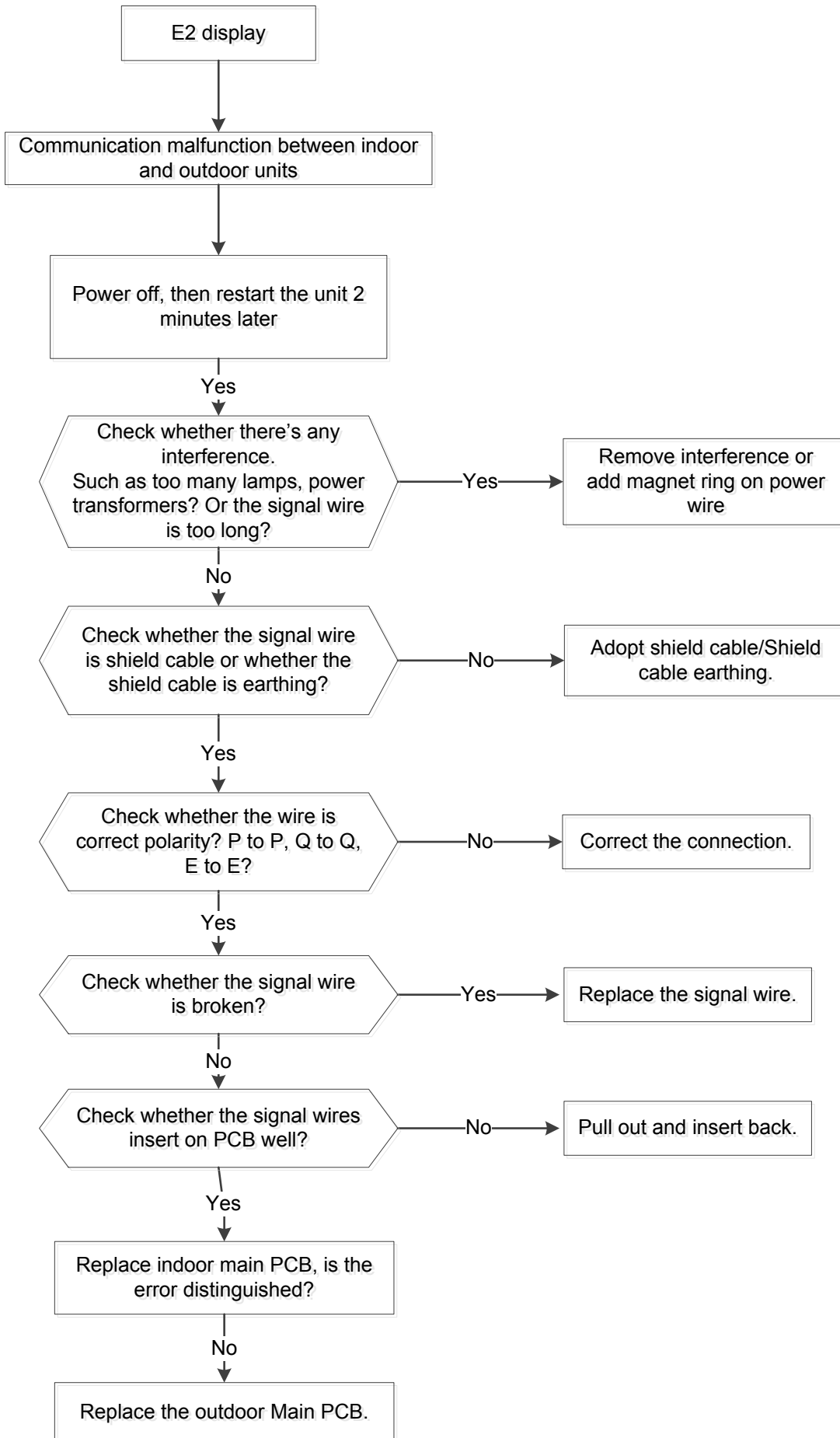
2.4.2 For the outdoor unit

2.4.2.1. E0 malfunction

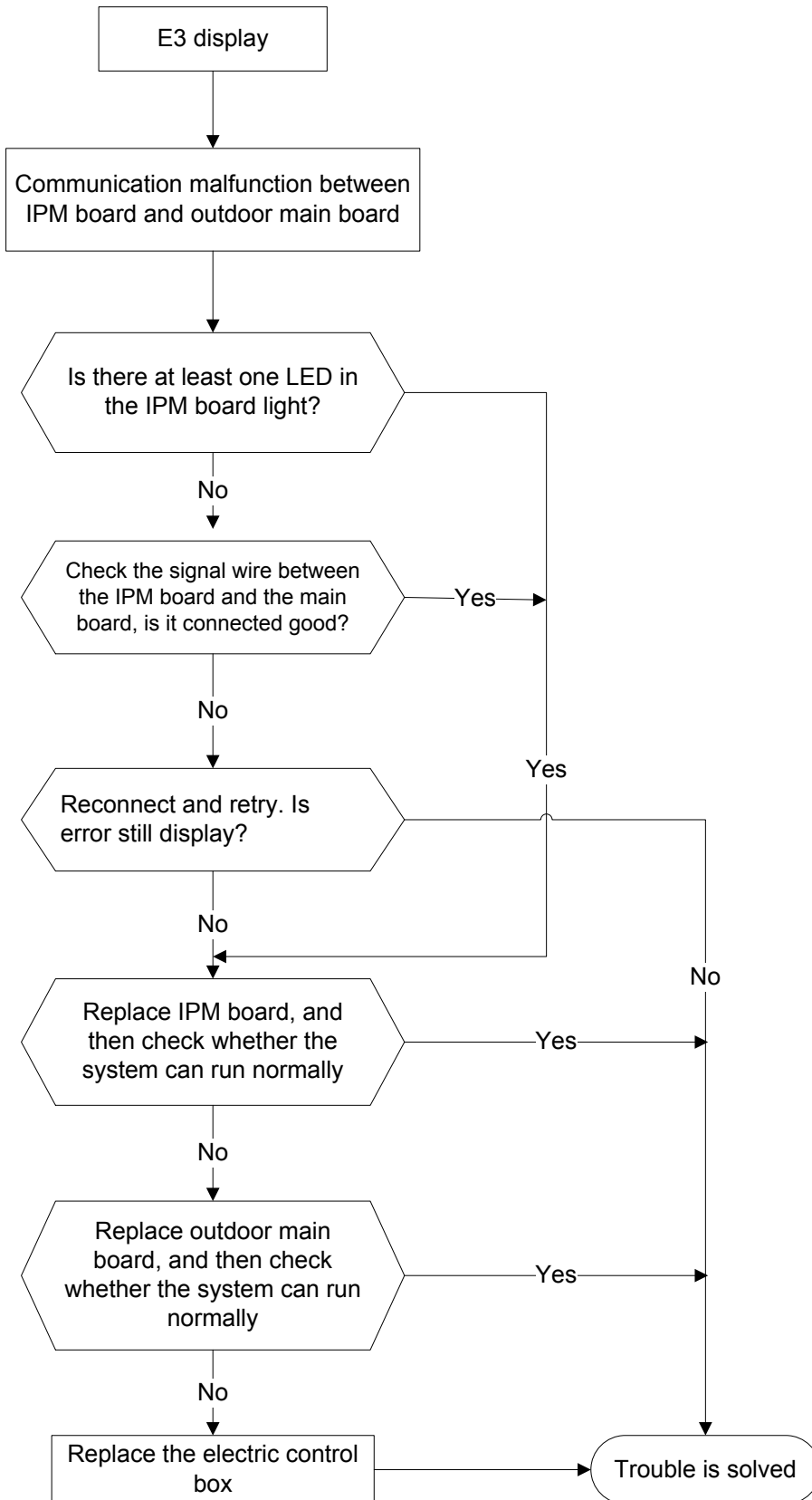


EEPROM: An electrically erasable programmable read-only memory whose contents can be erased and reprogrammed using a pulsed voltage.

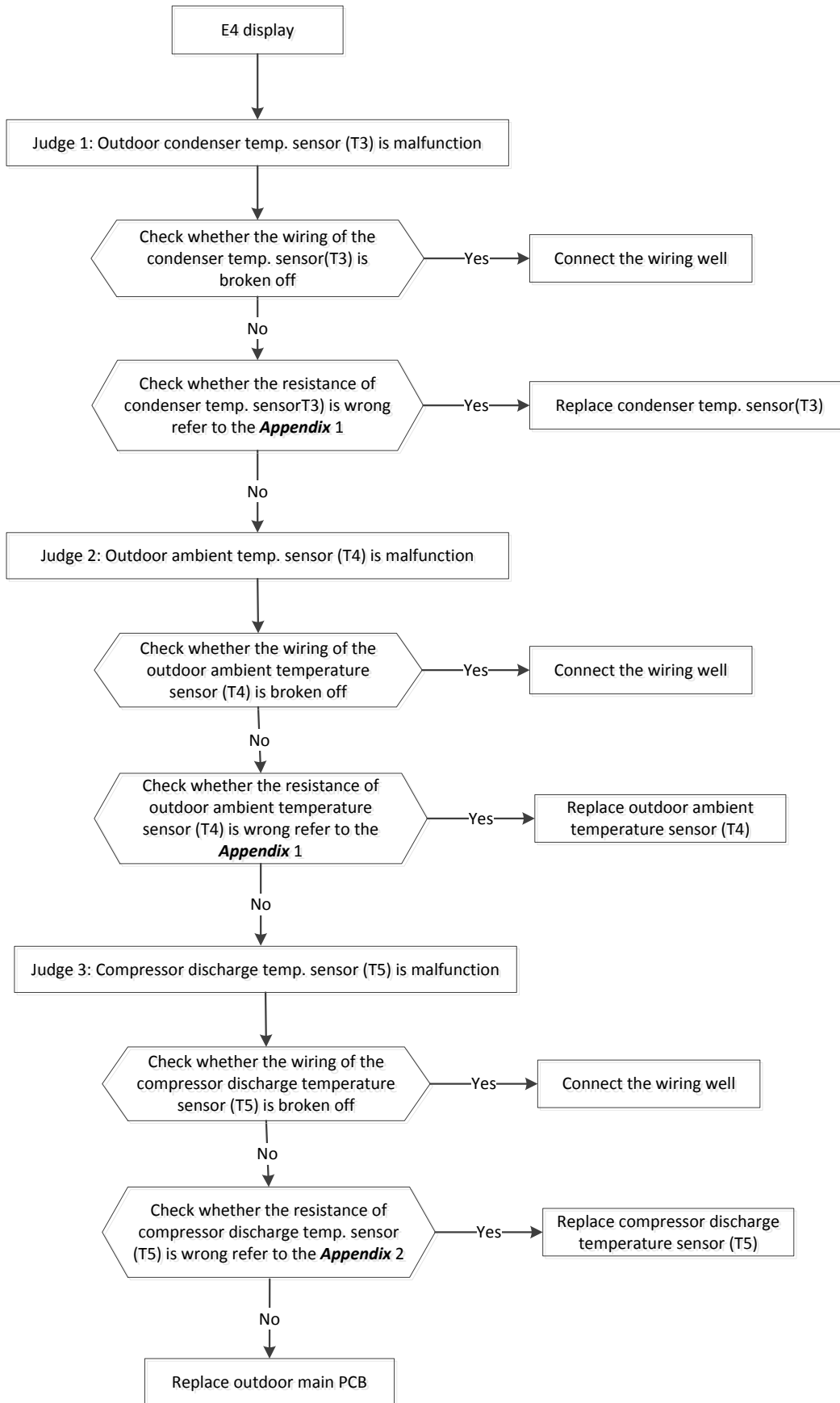
2.4.2.2. E2 malfunction



2.4.2.3. E3 malfunction

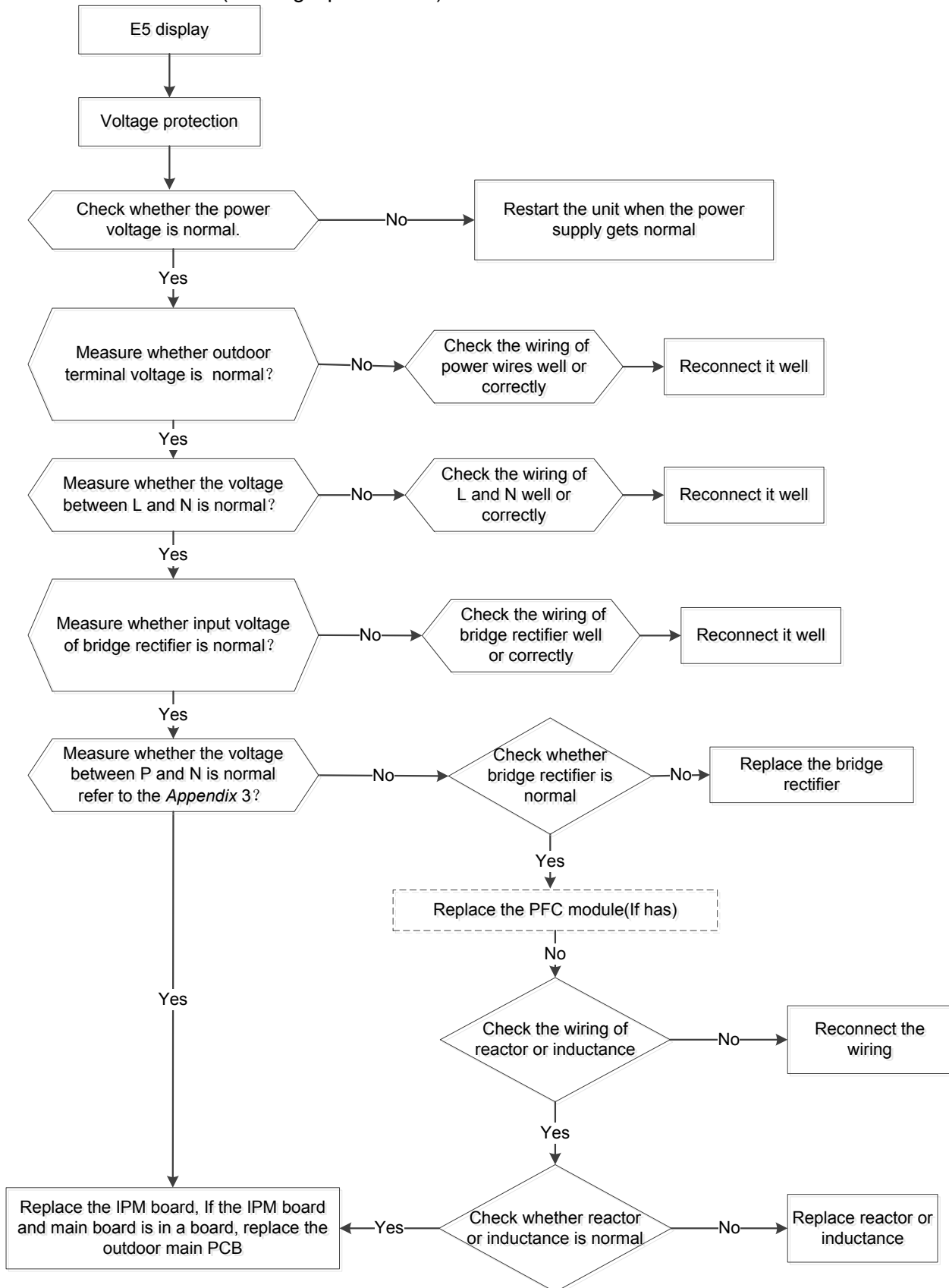


#### 2.4.2.4. E4 malfunction

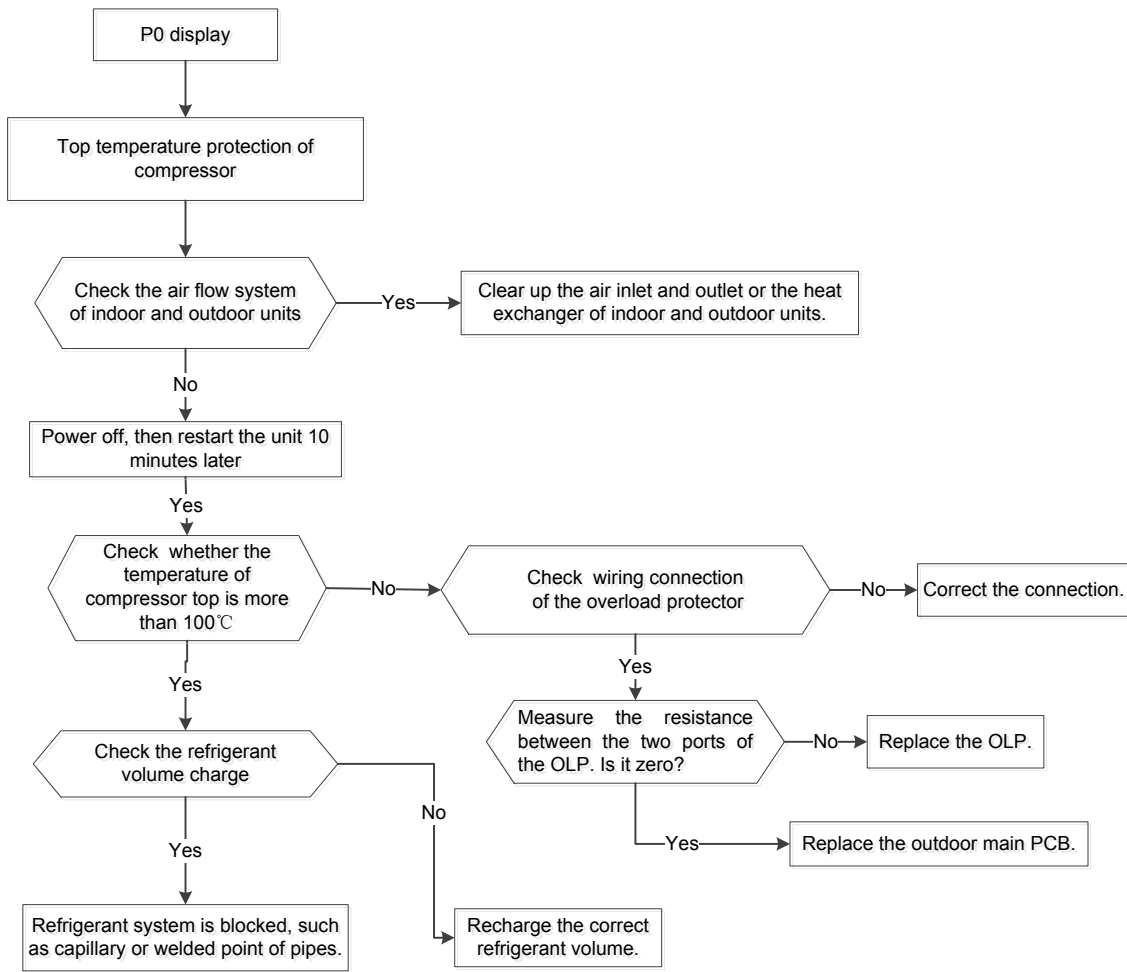




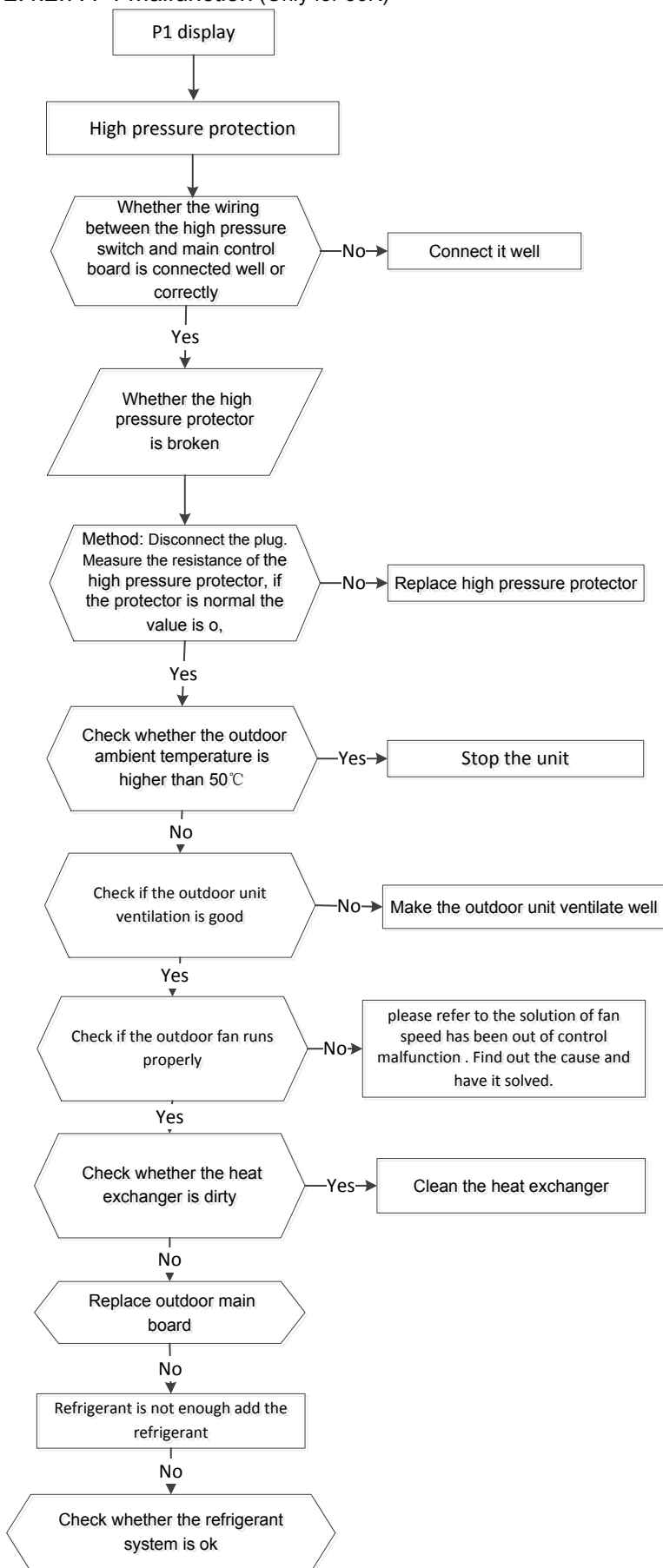
2.4.2.5. E5 malfunction(For single phase units)



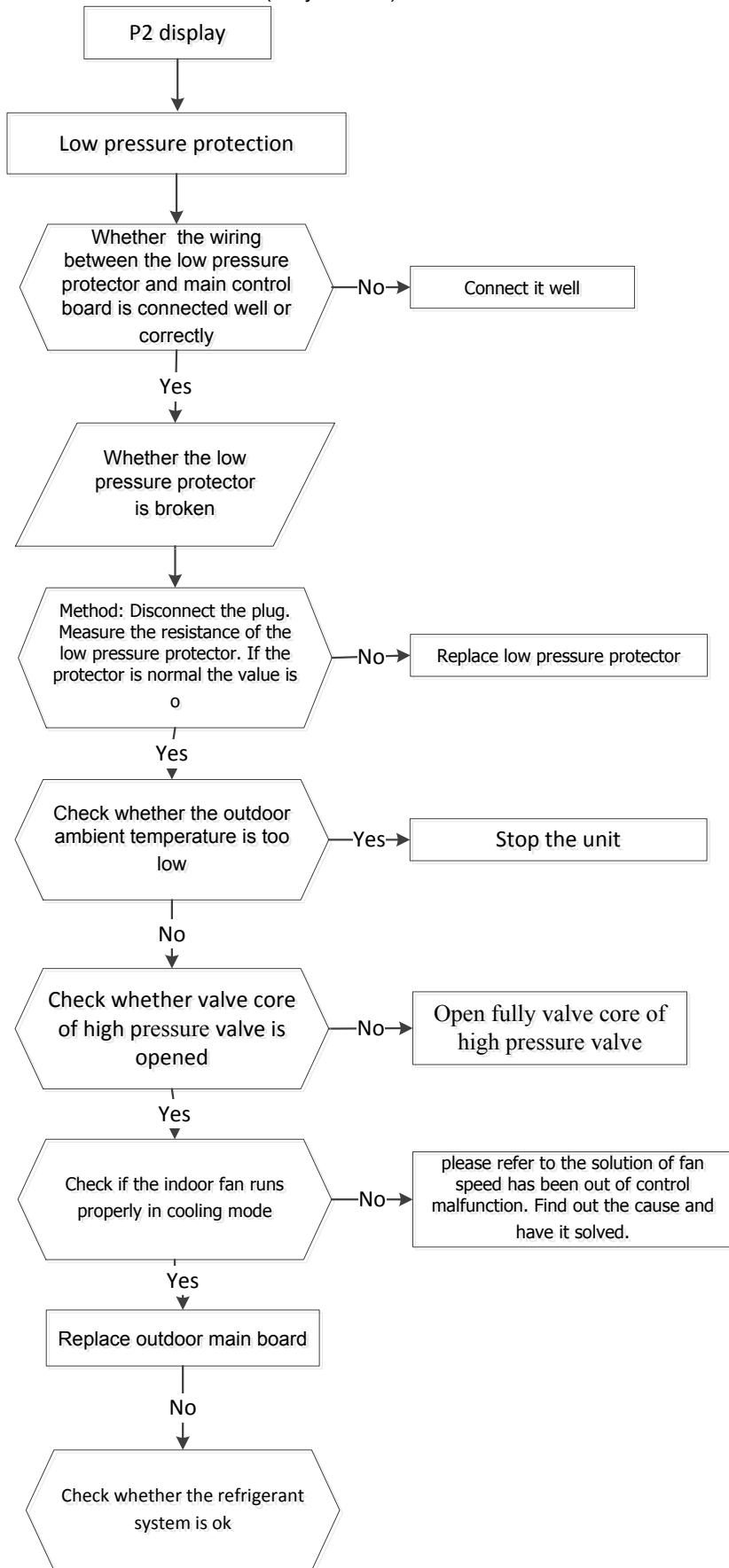
### 2.4.2.6. P0 malfunction



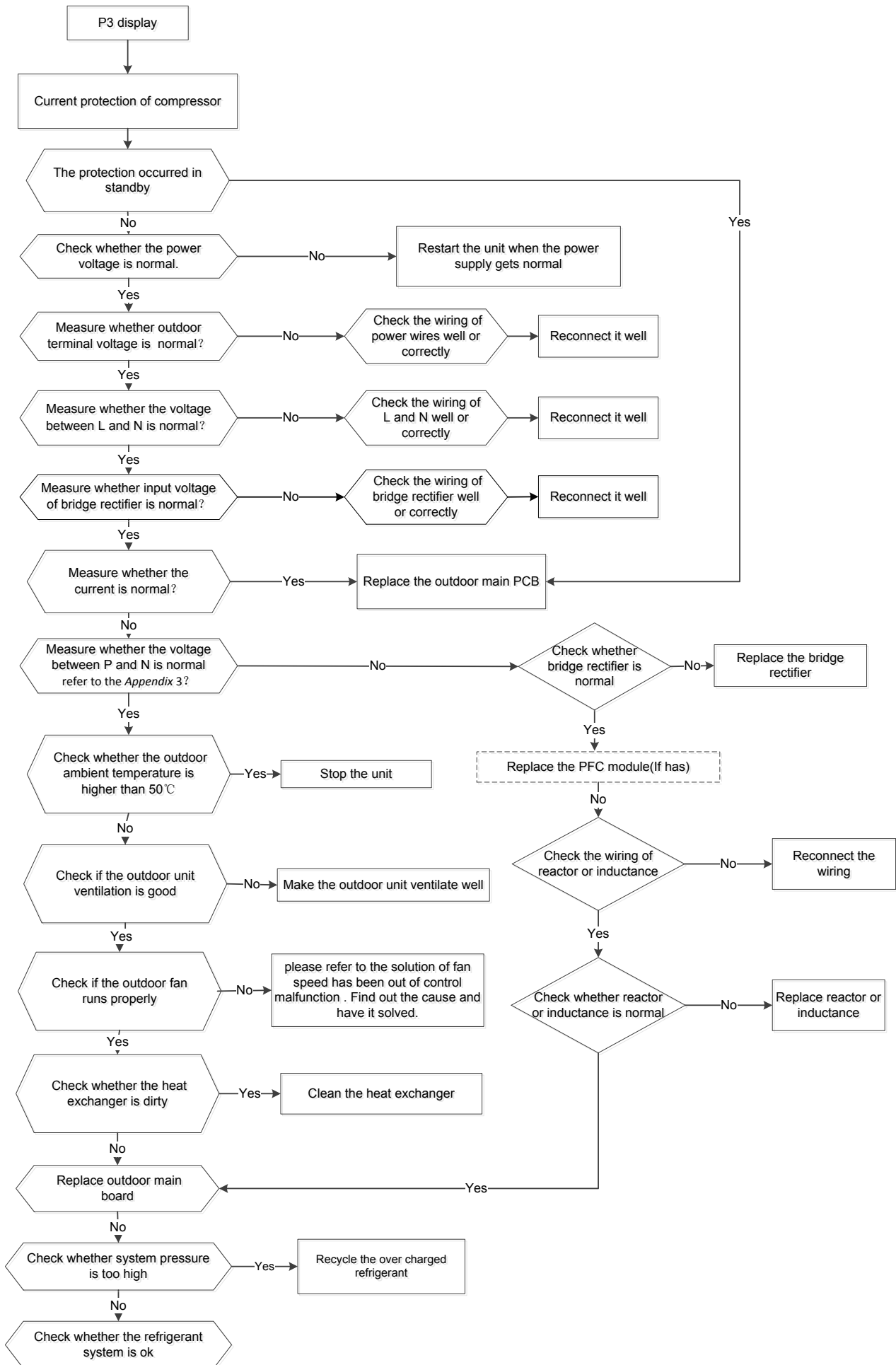
2.4.2.7. P1 malfunction (Only for 36K)



2.4.2.8. P2 malfunction (Only for 36K)

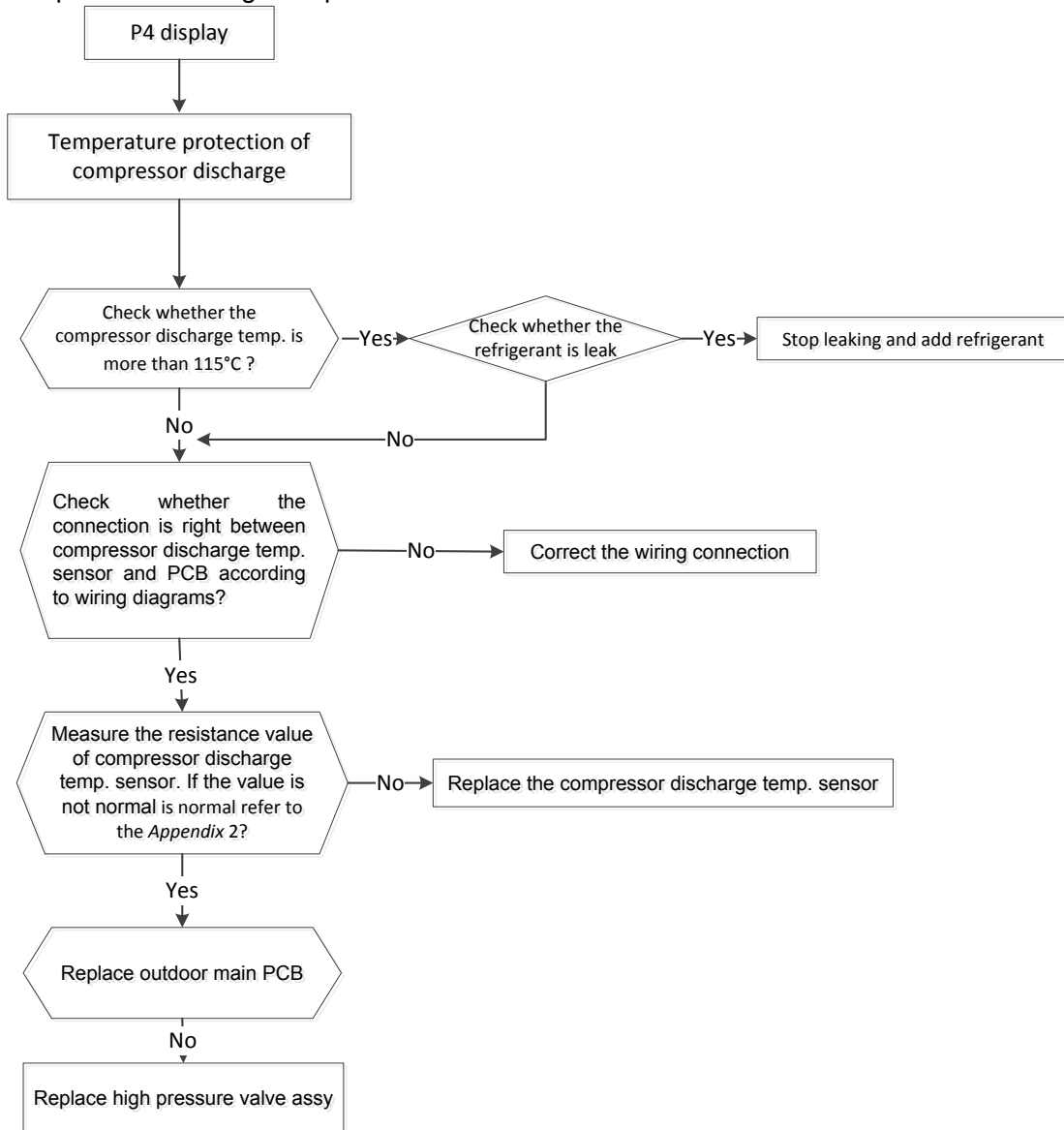


2.4.2.9. P3 malfunction



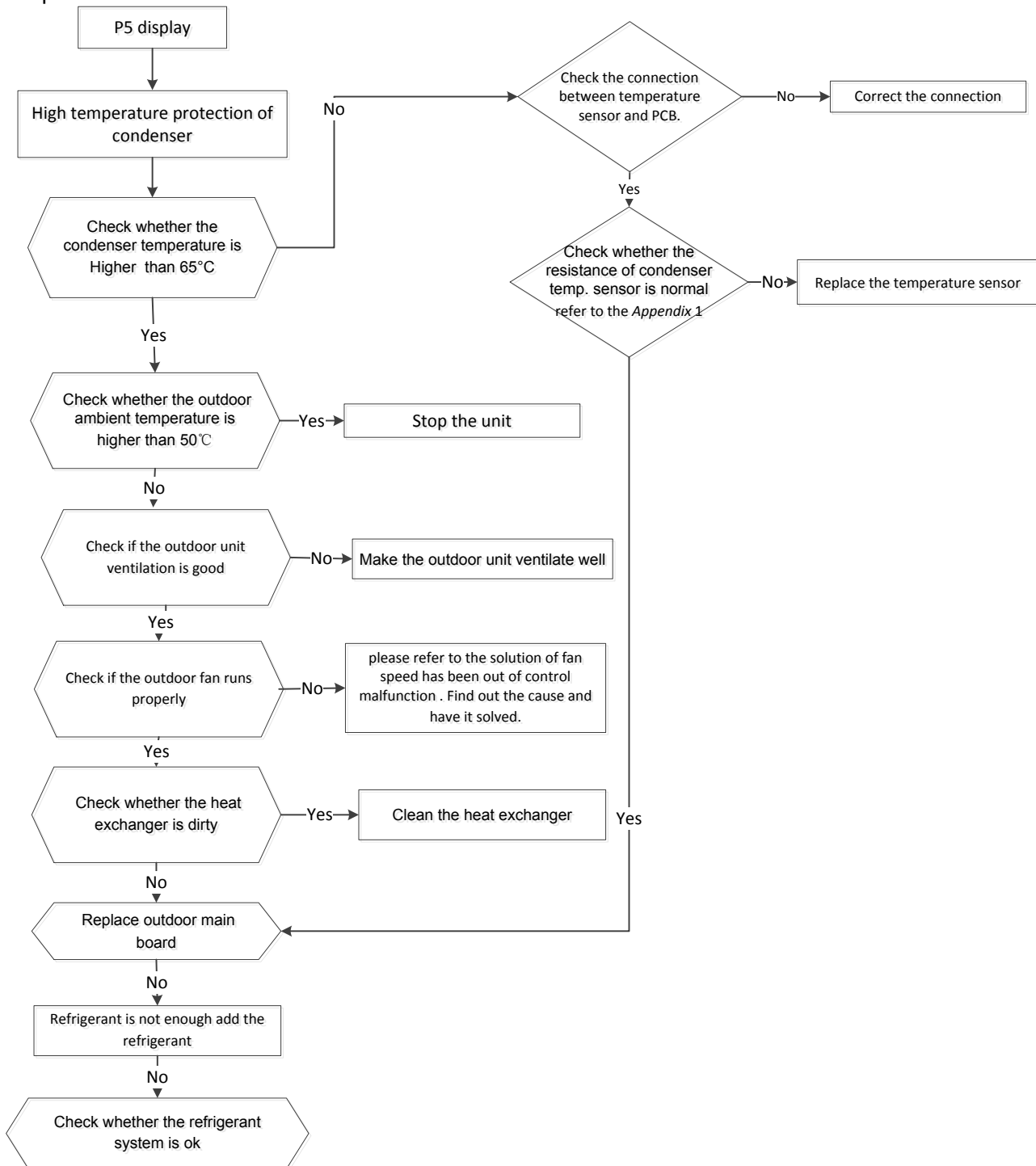
2.4.2.10. P4 malfunction

When compressor discharge temperature is higher than 115°C, the unit will stop, and unit runs again when compressor discharge temperature is lower than 90°C.



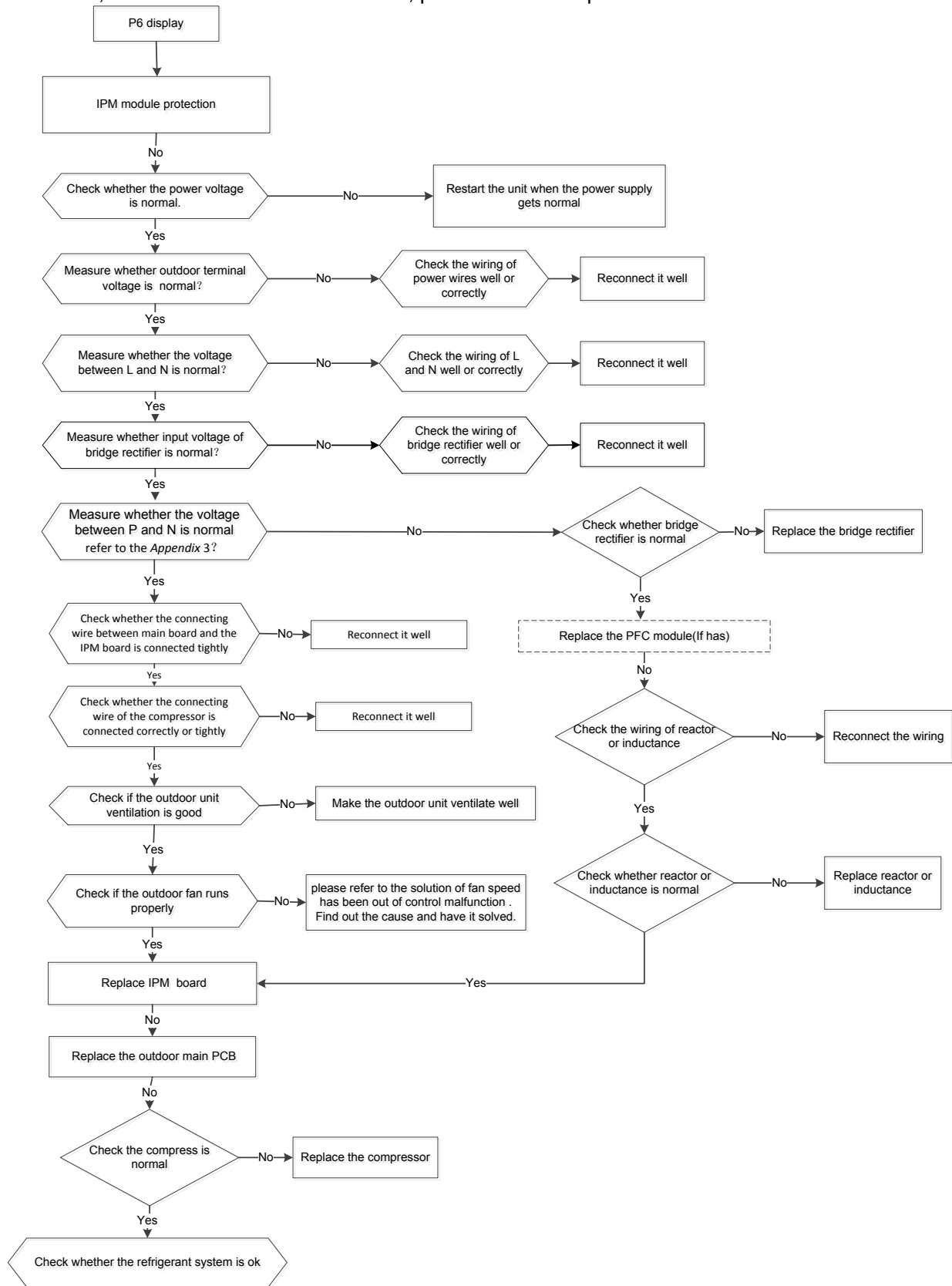
2.4.2.11. P5 malfunction

When condenser high temp. is more than 65°C, the unit will stop, and unit runs again when outdoor pipe temp. less than 52°C.



### 2.4.2.12. P6 malfunction

At first test the resistance between every two ports of U, V, W of IPM and P, N. If any result of them is 0 or close to 0, the IPM is defective. Otherwise, please follow the procedure below:





2.4.2.13. P7 malfunction

