

## 7. Maintenance

### 7-1 Troubleshooting Guide

Many error codes many appears on this air conditioner, and this troubleshooting guide is prepared for the maintenance personnel to detect the error position and the parts to be replaced during the troubleshooting process. In this Guide, the Troubleshooting Method is guided by the Error Name, and the Reference Code under the General Index is the error code of the internal unit of the mainstream model supplied by the Company.

**Example:** “internal coil sensor error” is coded as E3 in the error code of the internal unit, but appears as flash-out via the trouble light of the external machine. However, their troubleshooting method is the same, and use the same table as well.

**General index:**

| No. | Error Name   | Reference Code     |
|-----|--|--------------------|
| 1   | Internal temperature sensor error                                    | E1                 |
| 2   | External coil sensor error   | E2                 |
| 3   | Internal coil sensor error   | E3                 |
| 4   | Internal fan error of <b>wall mounted air conditioner</b> (PG motor) | E4                 |
| 5   | Internal fan error of <b>wall mounted air conditioner</b> (DC motor) | E4                 |
| 6   | Sliding door error of floor standing                                 | E4                 |
| 7   | Internal and external communication error                            | E5 (5E)            |
| 8   | External DC fan error (3-core terminal motor)                        | F0                 |
| 9   | Module protection error  | F1                 |
| 10  | PFC protection error   | F2                 |
| 11  | Compressor startup error   | F3                 |
| 12  | Exhaust sensor error   | F4                 |
| 13  | Pressing top head sensor error                                       | F5                 |
| 14  | External temperature sensor error                                    | F6                 |
| 15  | OVP or UVP error   | F7                 |
| 16  | Main external control panel and module panel communication error     | F8                 |
| 17  | Outdoor EE error   | F9                 |
| 18  | Recirculated sensor error ( four-way valve switch error )            | FA                 |
| 19  | Cabinet internal fan error (see E4 for troubleshooting)              | Fb                 |
| 20  | Function protection prompt of frequency conversion external machine  | See the Error List |

**Example:**

|  |   |
|--|---|
| <b>Explanation of error</b>                | <b>Cause:</b> explain the principle of the specific error.<br><b>Inspection path:</b> The basic order of troubleshooting. Related key position  |
| <b>Tools required for inspection</b>       | Tools that should be carried for such troubleshooting, and replacing parts that may be necessary for such error.  |
| <b>Frequent problematic part</b>           | Any possibly broken part related to the error may be the parts that need to be replaced.  |
| <b>Inspection procedure and key points</b> | All the troubleshooting procedures for the reference of maintenance staff are prepared from simple to complex, from surface to internal, and from test to replacement. Although these key points do not cover all the error, and difficult or special problems are not included as well, but they can cover most of the common error. |
| <b>Special attention</b>                   | Here are some often-overlooked problems for the reference of the maintenance personnel.   |

The problems in the market are always more than we think, so it is necessary for the maintenance personnel to understand the principle of air conditioning operation, and to make a flexible judgment of the fault in combination with the actual conditions. We welcome the maintenance personnel to constantly put forward new problems in the actual work, record the solutions and enrich our troubleshooting guide list.