

10-7. Trouble Diagnosis by Outdoor LED

For the outdoor unit, the self-diagnosis is possible by five LEDs (Red).

- LEDs (Red) (D11 to D15) are provided on the sub-control board under surface of the inverter, and as shown below, they are checked from the wiring port when removing the wiring cover.

- If a trouble occurs, LED (Red) goes on according to the trouble as described in the table below.
- When two or more troubles occur, LEDs go on cyclically.
- Usually, LEDs (Red) go off.

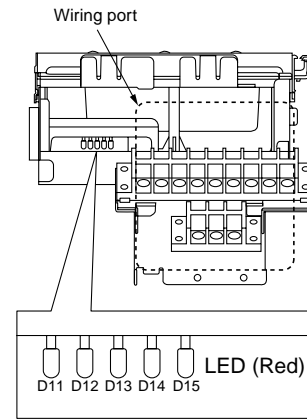


Fig. 10-7-1

☐ : LED ON, ● : LED OFF P.M.V. : Pulse modulating valve

LED display					Indoor check code	Description
D11	D12	D13	D14	D15		
●	●	●	●	●	None	During normal operation
☐	●	●	●	●	07	Compressor thermo. operation, instantaneous power failure, gas leak
●	☐	●	●	●	14	IGBT short circuit, compressor motor rear short
☐	☐	●	●	●	16	Position-detect circuit error
●	●	☐	●	●	17	Current-detect circuit error
☐	●	☐	☐	●	18	Outdoor heat exchanger temp. sensor (TE) error
●	●	☐	☐	●	18	Suction temp. sensor (TS) error
●	☐	☐	●	●	19	Discharge temp. sensor (TD) error
☐	☐	☐	●	●	1A	Outdoor fan error
●	●	●	☐	●	1B	Outside temp. sensor (TO) error
*3	☐	●	☐	●	1C	Compressor system error
*2, 3	☐	☐	☐	●	1C	A room gas side temp. sensor (TGa) error
*1	●	☐	☐	●	—	Gas leakage, TS sensor disconnection, P.M.V. sensor error
*1	☐	☐	☐	●	—	Indoor heat exchanger sensor (TC) disconnection, P.M.V. sensor error
*3	●	●	●	☐	1C	Indoor/outdoor miswiring, gas leakage, TS/TC sensor disconnection, P.M.V. sensor error
*2, 3	☐	●	●	☐	1C	TGa sensor disconnection, P.M.V. sensor error
*3	☐	☐	●	☐	1C	Communication error between MCU
	☐	●	●	☐	1D	Compressor lock
	●	☐	●	●	1E	Discharge temp. error, gas leakage
	☐	☐	●	●	1F	Compressor break down

*1 Back-up operation is performed without block display of the indoor unit.

*2 Operated normally when the air conditioner is driven in one room only. If operating in two rooms, block-display is performed (Instant and after approx. 30 minutes passed), the operation stops.

*3 Refer to measures when indoor check code is "1C".