


## SELF DIAGNOSIS DESCRIPTION AND CHECK POINT TABLE

### SELF DIAGNOSIS FUNCTION


Once abnormality detected during operation, the unit will immediately stop its operation (Self Diagnosis LED at the outdoor unit printed circuit board will light on) and an error code (abnormality) will be saved in memory. The abnormality of the operation can be identified through the below breakdown diagnosis method:

### FS WIRED REMOTE CONTROL TYPE


CS-F24/28/34/43/50DB4E5 (CASSETTE TYPE)



CS-F24/28/34/43/50DTE5 (CEILING TYPE)




CS-F24/28/34/43/50DD1E5/50DD2E5/50DD3E5 (DUCTED TYPE)

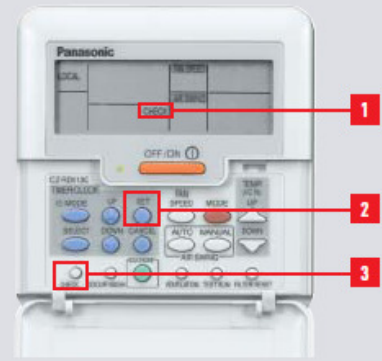


1. When an abnormality occurs, "CHECK" flashes in the remote control display.
2. Press the CHECK button when the display is flashing. The timer display will change and error code (eg. "F20") will be displayed.
3. Press TIMER SET button while the error code is displayed. The error code display will change to detail display.

OUTDOOR UNIT




WIRED REMOTE CONTROL




### FS WIRELESS REMOTE CONTROL TYPE

CS-F24/28/34/43/50DB4E5 (CASSETTE TYPE)




CS-F24/28/34/43/50DTE5 (CEILING TYPE)

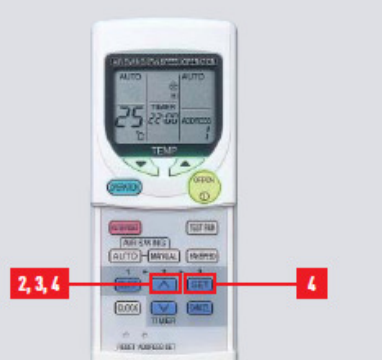


1. When an abnormality occurs, TIMER LED blinks at the indoor receiver indicator.
2. Press the "▲" button control continuously for more than 5 seconds to turn on self diagnosis mode. " \_ \_ : \_ \_ "
3. Press "▲" button again, "F 00:00" is displayed.
4. By pressing the "▲" or "▼" button again, the display will change from "F0" to "F9". If beep sound is heard from the indoor unit, press SET button, then the error number will shift to the next digit. Once the error shift to the lowest digit, error code is determined.
5. If no input of "▲" or "▼" button for more than 30 seconds, the self diagnosis mode will be cancelled.

OUTDOOR UNIT



WIRELESS REMOTE CONTROL



**ERROR CODES TABLE // INVERTER MODEL**

Warning: Electrical power must be disconnected when terminal protective cover is not in place to protect against electrocution.

LED 301 (green) illuminates to indicate that the microprocessor on the printed circuit board is operating in normal condition. If LED 301 flashing irregularly, check the power supply. Reset the power.

Remote Control Code	Outdoor unit printed circuit board LED Detail	302	303	304	305	306	307	308	309	Check point location
F15	-01	○	○	○	○			(*)	(*)	Drain level float switch
F16	-01							○	(*)	Louver switch
F17	-02	○	○					○	(*)	DC fan motor
F20	-01				○			○	(*)	Indoor temperature sensor
	-02	○			○			○	(*)	Remote control thermistor
F21	-01		○		○			○	(*)	Pipe temp. sensor (indoor)
F26	-01			○		○		○	(*)	Remote control transmission
F27	-01		○	○		○		○	(*)	Indoor / Outdoor unit disconnected
	-05	○	○	○		○		○	(*)	In. / Out. unit connection problem
F27	-01	○	○							Indoor / Outdoor unit disconnected
	-05					○				In. / Out. unit connection problem
F30	-01							○		System problem
	-02		○					○		Open phase, or reversed phase of supply
F31	-01		○							Suction pressure protection
	-02	○								High-pressure cut-off
	-06			○	○					4-way valve
	-09		○	○	○					Leakage of refrigerant
	-10		○	○	○					Refrigerant system

Remote Control Code	Outdoor unit printed circuit board LED Detail	302	303	304	305	306	307	308	309	Check point location
F32	-03			○	○					Inverter protection (Low DC voltage)
	-04	○	○			○				Inverter protection (IPM protection)
	-05	○	○							Compressor overcurrent protection
	-06	○	○		○					Compressor discharge temp. protection
	-08	○	○		○					Inverter protection (PFC protection)
	-09	○				○				Inverter protection (DC current protection)
	-10	○	○	○	○					Number of rotation compressor problem
F35	-02		○			○				DC Fan motor lock
F40	-01			○						Outlet temperature sensor
	-11					○				Compressor suction temp. sensor
	-21	○		○						Heat exchanger outlet temp. sensor
	-31	○	○	○						DEF temperature sensor
	-51	○	○							Compressor discharge temp. sensor
F41	-02	○	○					○		High pressure switch open circuit
	-11	○						○		Low pressure sensor
F42	-11		○	○						Current detector open circuit
F44	-01	○			○					Inverter protection (IPM temp. sensor problem)

○ : Blinking      ● : Illuminated      Blank : OFF

(*)	308	309
●		Master
○		Slave

**ERROR CODES TABLE // NON INVERTER MODEL**

Warning: Electrical power must be disconnected when terminal protective cover is not in place to protect against electrocution.

LED 1 (green) illuminates to indicate that the microprocessor on the printed circuit board is operating in normal condition. If LED flashing irregularly, check the power supply. Reset the power.

Remote Control Code	Outdoor unit printed circuit board LED Detail	2	3	4	5	6	7	8	Check point location	
F15	-01		○	○	○			○	(*)	Drain level float switch
F16	-01							○	(*)	Louver switch
F17	-02	○	○					○	(*)	DC fan motor
F20	-01				○			○	(*)	Indoor temperature sensor
	-02	○			○			○	(*)	Remote control thermistor
F21	-01		○		○			○	(*)	Pipe temp. sensor (indoor)
F26	-01			○		○		○	(*)	Remote control transmission
F27	-01		○	○		○		○	(*)	Indoor / Outdoor unit disconnected
	-05	○	○	○		○		○	(*)	Indoor / Outdoor unit connection problem
F27	-01	○	○							Indoor / Outdoor unit disconnected
	-05					○				Indoor / Outdoor unit connection problem
F30	-01				○	○				System problem
	-02		○	○	○					Open phase, or reversed phase of supply

Remote Control Code	Outdoor unit printed circuit board LED Detail	2	3	4	5	6	7	8	Check point location	
F31	-01			○						Suction pressure protection
	-02	○								High-pressure cut-off
F31	-06			○	○					4-way valve
	-10		○	○		○				Refrigerant system
F32	-06	○	○							Compressor overcurrent protection
	-06	○	○		○					Compressor discharge temp. protection
F40	-21	○		○						Heat exchanger outlet temperature sensor
	-51	○	○							Compressor discharge temperature sensor
F41	-02	○	○		○	○				High pressure switch open circuit
	-12	○		○	○	○				Low pressure sensor
F42	-11		○	○						Current detector open circuit

○ : Blinking      ● : Illuminated      Blank : OFF

(*)	8
●	Master
○	Slave