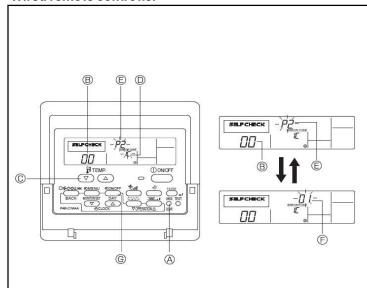
<Malfunction-diagnosis method at maintenance service>

#### **Description**

#### Wired remote controller



- ① Turn on the power.
- @ Press the [CHECK] button twice.
- ③ Set address with [TEMP] button if system control is used.
- 4 Press the [ON/OFF] button to stop the self-check.
  - A CHECK button
  - Address
  - © TEMP. button
  - D IC : Indoor unit

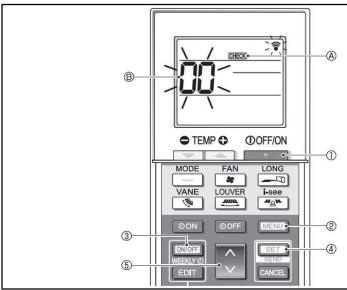
OC: Outdoor unit

- © Check code ( ---: No trouble generated in the past ' FFFF: No corresponding unit
- ® Unit No.
- © Timer ON/OFF button

<To cancel check code>

- ① Display the check code at the self-check result display screen.
- ② The address for self-check will blink when the ⑤② ON/OFF button is pressed twice within 3 seconds.

#### Wireless remote controller



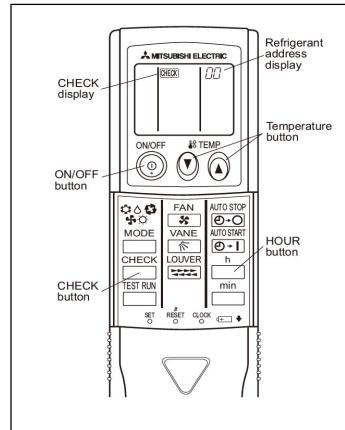
#### [Procedure]

- 1. Press the \_\_\_\_ button ① to stop the air conditioner.
  - If the weekly timer is enabled (WEW is on), press the button 3 to disable it (WEW is off).
- 2. Press the MENU button @ for 5 seconds.
  - CHECK (A) comes on and the unit enters the self-check mode.
- 3. Press the button button
- 4. Press the SET button 4.
  - If an error is detected, the check code is indicated by the number of beeps from the indoor unit and the number of blinks of the OPERATION INDICATOR lamp.
- 5. Press the button ①.
  - IMEGI (A) and the refrigerant address (M-NET address) (B) go off and the self-check is completed.

<Malfunction-diagnosis method at maintenance service>

#### **Description**

#### Wireless remote controller



#### [Procedure]

- (1) Press the CHECK button twice.
  - "CHECK" lights, and refrigerant address "00" flashes.
  - Check that the remote controller's display has stopped before continuing.
- (2) Press the temperature ① ⑥ buttons.
  - Select the refrigerant address of the indoor unit for the selfdiagnosis.

Note: Set refrigerant address using the outdoor unit's DIP switch (SW1).

(For more information, see the outdoor unit installation manual.)

- (3) Point the remote controller at the sensor on the indoor unit and press the HOUR button.
  - If an air conditioner error occurs, the indoor unit's sensor emits an intermittent buzzer sound, the operation light flashes, and the error code is output.

(It takes 3 seconds at most for error code to appear.)

- (4) Point the remote controller at the sensor on the indoor unit and press the ON/OFF button.
  - The check mode is cancelled.

Wireless R/C	Wired R/C
Beeper sounds/OPERATION	
INDICATOR lamp blinks	Check code
(Number of times)	

# PLY-ZM50EA / PLY-M60, 80, 100, 125EA / PEY-M50, 60, 80, 100, 125JAL / PCY-M125KAL

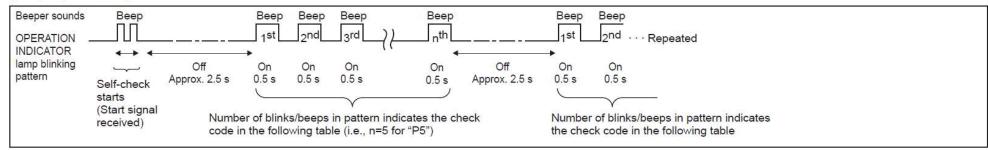
Description

#### [Output pattern A] Errors detected by indoor unit

Lear-parisonnia and account account and account and account and account account account and account account account account and account accoun	
1	P1
2	P2
	P9
3	E6, E7
4	P4
_	P5
5	PA
6	P6
7	EE
8	P8
9	E4, E5
10	-
11	PB(Pb)
12	FB(Fb)
14	PL
-	E0, E3
-	E1, E2

Intake sensor error
Pipe (TH2) sensor error
Pipe (TH5) sensor error
Indoor/outdoor unit communication error
Float switch connector open
Drain pump error
Forced compressor error (due to water leakage abnormality)
Freeze (during cooling operation)/Overheat protection operation (during heating operation)
Combination error between indoor and outdoor unit
Pipe temperature error
Communication error between wired remote controller and indoor unit
-
Indoor unit fan motor error
Indoor unit control system error (memory error, etc.)
Refrigerant circuit abnormal
Remote controller transmission error
Remote controller control board error

#### [Output pattern A]



Wireless R/C	Wired R/C
Beeper sounds/OPERATION	
INDICATOR lamp blinks	Check code
(Number of times)	

# PLY-ZM50EA / PLY-M60, 80, 100, 125EA / PEY-M50, 60, 80, 100, 125JAL / PCY-M125KAL

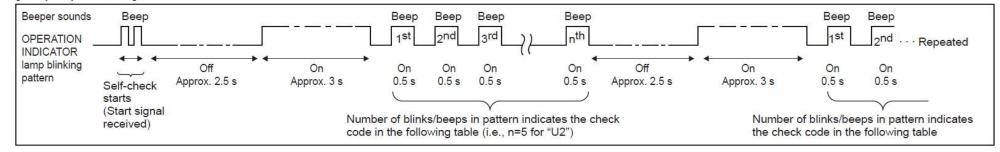
Description

[Output pattern B] Errors detected by unit other than indoor unit (Outdoor unit, etc.)

[Output puttern b] Enters detected by a	me outfor than mac	, OT G
1	E9	Inc
2	UP	Со
3	U3, U4	Ор
4	UF	Co
5	U2	Ab
6	U1, Ud	Ab
7	U5	Ab
8	U8	Οu
9	U6	Со
10	U7	Ab
11	110 1111	Ab
11	U9, UH	se
12	-	-
13	-	-
14	Others	Ot

ndoor/outdoor unit communication error
Compressor overcurrent interruption
Open/short of outdoor unit thermistors
Compressor overcurrent interruption (When compressor locked)
Abnormal high discharging temperature/49C worked/insufficient refrigerant
Abnormal high pressure (63H worked)/Overheat protection operation
Abnormal temperature of heat sink
Outdoor unit fan protection stop
Compressor overcurrent interruption/Abnormal of power module
Abnormality of super heat due to low discharge temperature
Abnormality such as overvoltage or voltage shortage and abnormal synchronous signal to main circuit/Current
ensor error
Other errors (Refer to the technical manual for the outdoor unit.)

#### [Output pattern B]



## Mr. SLIM - Outdoor Unit

No.	Symptom	LED indication	Check code

No.	Symptom	indication	code
1		1-time flash	UP
2		every 2.5 seconds	U3 / U4
3	Outdoor unit		FC
4	does not operate	OFF	E6
5		6-time flash 2.5 seconds OFF	E8 / E9
6		11-time flash 2.5 seconds OFF	UE

# SUY-KA50, 60, 80, 100VA / SUY-ZM50VA / **SUY-M60, 80, 100VA**

**Description** 

Outdoor power system

- Reconnect connector of compressor.
- Check inverter/compressor.
- Check stop valve.

Outdoor thermistors

■ Check outdoor thermistors

Outdoor control system

Replace inverter P.C. board.

Compressor protector opens

■ Check of compressor protector

Serial signal

- Check of indoor/outdoor connecting wire.
- Replace indoor or outdoor P.C. board if abnormality is displayed again.

Stop valve/ Closed valve

■ Check stop valve.

## Mr. SLIM - Outdoor Unit

Symptom	LED	Check
Symptom	indication	code

# SUY-KA50, 60, 80, 100VA / SUY-ZM50VA / SUY-M60, 80, 100VA

II IN 1	O		aП	0.1	al.	0
	 Po 1	. 573				

110.	- Cymptom	indication	code	Decemption:
				Overcurrent protection
_	_	2-time flash		■ Reconnect connector of compressor.
7		2.5 seconds OF	F	■ Check inverter/ compressor.
				■ Check stop valve.
	]	O time fleeb		Discharge temperature overheat protection
8		3-time flash		■ Check refrigerant circuit and refrigerant amount.
		2.5 seconds OF	·F	■ Check of LEV.
				Fin temperature /P.C. board temperature thermistor overheat protection
		4-time flash		■ Check around outdoor unit.
9	Outdoorunit	2.5 seconds OF	F	■ Check outdoor unit air passage.
	Outdoor unit			■ Check of outdoor fan motor.
	stops and restarts 3			High pressure protection
10			■ Check refrigerant circuit and refrigerant amount.	
	repeated.	2.5 seconds or	Т	■ Check stop valve.
	repeated.	8-time flash		Compressor synchronous abnormality
11		2.5 seconds OF	:E	■ Reconnect connector of compressor.
		2.5 3000103 01	'	■ Check inverter/ compressor.
		10-time flash		Outdoor fan motor
12		2.5 seconds OFF	:E	■ Check of outdoor fan motor.
		2.5 3000103 01	'	■ Check of inverter P.C. board.
13		12-time flash		Each phase current of compressor
15		2.5 seconds OF	F	■ Check inverter/ compressor.
14		13-time flash		DC voltage
		2.5 seconds OF	F	■ Check inverter/ compressor.

## Mr. SLIM - Outdoor Unit

No.	Symptom	LED	Check
140.	Symptom	indication	code

# SUY-KA50, 60, 80, 100VA / SUY-ZM50VA / **SUY-M60, 80, 100VA**

Doccri	nti	ΔI
Descri	144	ш

NO.	Symptom	indication code	Description
15		1-time flash 2.5 seconds OFF	Frequency drop by current protection Frequency drop by defrosting in COOL mode The unit is normal, but check the following.
16		3-time flash 2.5 seconds OFF	<ul> <li>Check if indoor filters are clogged.</li> <li>Check if refrigerant is short.</li> <li>Check if indoor/outdoor unit air circulation is short cycled.</li> </ul>
17		4-time flash 2.5 seconds OFF	Frequency drop by discharge temperature protection  Check refrigerant circuit and refrigerant amount.  Check of LEV.  Check of outdoor thermistors.
18	Outdoor unit operates.	7-time flash 2.5 seconds OFF	Low discharge temperature protection  Check of LEV.  Check refrigerant circuit and refrigerant amount.
19		8-time flash 2.5 seconds OFF	(SA18/24, SM13/18/24) PAM protection PAM: Pulse Amplitude Modulation (SA30/36, SM30) Zero cross detecting circuit This is not malfunction. PAM protection will be activated in the following cases:  1. Instantaneous power voltage drop. (Short time power failure)  2. When the power supply voltage is high.
20		9-time flash 2.5 seconds OFF	Inverter check mode  Check if the connector of the compressor is correctly connected.  Check inverter/compressor.

Mr. SLIM - Outdoor Unit			Unit	PUY-P42, 48, 125VKA.TH / PUY-M125VKA-SG
No.	Check code	Indica LED1 (Green)	tion LED2 (Red)	Description
1	F5	1 time blinking	2 time blinking	Connector (63H/TRS) is open  Check if conenctor (63H/TRS) on the outdoor controller board is not disconnected.  Check continuity of pressure switch (63H/TRS) by tester.
2	-	2 time blinking	1 time blinking	Miswiring of indoor/ outdoor unit connecting wire, excessive number of indoor units (4 units or more) Miswiring of indoor/outdoor unit connecting wire (converse wiring or disconnection) Startup time over Check if indoor/outdoor connecting wire is connected correctly. Check if 4 or more indoor units are connected to outdoor unit. Check if noise entered into indoor/outdoor connecting wire or power supply. Re-check error by turning off power, and on again.
3	E6 / E7		2 time blinking	Indoor/outdoor unit communication error (signal receiving error) is detected by indoor unit. Indoor/outdoor unit communication error (transmitting error) is detected by indoor unit. Indoor/outdoor unit communication error (signal receiving error) is detected by outdoor unit. Indoor/outdoor unit communication error (transmitting error) is detected by outdoor unit.  Check if indoor/outdoor connecting wire is connected correctly.  Check if noise entered into indoor/outdoor connecting wire or power supply.  Check if noise entered into indoor/outdoor controller board.  Re-check error by turning off power, and on again.
4	E0 / E3 / E4 / E5		3 time blinking	Remote controller signal receiving error is detected by remote controller.  Remote controller transmitting error is detected by remote controller.  Remote controller signal receiving error is detected by indoor unit.  Remote controller transmitting error is detected by indoor unit.  Check if connecting wire of indoor unit or remote controller is connected correctly.  Check if noise entered into transmission wire of remote controller.  Re-check error by turning off power, and on again.
5	EF		4 time blinking	Check code is not defined.  Check if remote controller is MA remote controller(PAR-21MAA).  Check if noise entered into transmission wire of remote controller.  Check if noise entered into indoor/outdoor connecting wire.  Re-check error by turning off power, and on again.

Mr. SLIM - Outdoor Unit			Unit	PUY-P42, 48, 125VKA.TH / PUY-M125VKA-SG
No. Check code	Indica	tion	Description	
	Clieck code	LED1 (Green)	LED2 (Red)	Description
6	PL	2 time blinking	4 time blinking	<ul> <li>Check code is not defined.</li> <li>Check refrigerant pipes for disconnection or leakage.</li> <li>After the recovery of refrigerant, vacuum dry the whole refrigerant circuit.</li> <li>Check refrigerant circuit for operation.</li> </ul>
7	Ed / A0~A8		5 time blinking	Serial communication error < Communication between outdoor controller board and outdoor power board > < Communication between outdoor controller board and M-NET P.C. board > Communication error of M-NET system  • Check if connector (CN4) on outdoor controller board and outdoor power board is not disconnected.  • Check if there is poor connection of connector on outdoor controller board (CNMNT and CNVMNT).  • Check M-NET communication signal.
8	U2/U7		1 time blinking	Abnormality of comp. surface thermistor(TH32/33) and discharge temperature (TH4) Abnormality of superheat due to low discharge temperature  Check if stop valves are open.  Check if connectors (TH4, TH32/33, LEV-A, and LEV-B) on outdoor controller board are not disconnected.  Check if unit is filled with specified amount of refrigerant.  Measure resistance values among terminals on indoor valve and outdoor linear expansion valve using a tester.
9	U1	3 time blinking	2 time blinking	Abnormal high pressure (High pressure switch 63H/TRS operated.)  Check if indoor/outdoor units have a short cycle on their air ducts.  Check if connector (63H/TRS) on outdoor controller board is not disconnected.  Check if heat exchanger and filter is not dirty.  Measure resistance values among terminals on linear expansion valve using a tester.
10	U8 / Ud		3 time blinking	Abnormality of outdoor fan motor rotational speed Protection from overheat operation(TH3)  Check the outdoor fan motor.  Check if connector (TH3) on outdoor controller board is disconnected.

Mr. SLIM - Outdoor Unit			Unit	PUY-P42, 48, 125VKA.TH / PUY-M125VKA-SG
No.	Check code	Indica LED1 (Green)	tion LED2 (Red)	Description
11	UF/UP/UH /U6		4 time blinking	Compressor overcurrent breaking(Start-up locked) Compressor overcurrent breaking Abnormality of current sensor (P.B.) Abnormality of power module  Check if stop valves are open.  Check looseness, disconnection, and converse connection of compressor wiring.  Measure resistance values among terminals on compressor using a tester.  Check if outdoor unit has a short cycle on its air duct.
12	U3 / U4	3 time blinking	5 time blinking	Open/short of discharge thermistor (TH4) and comp. surface thermistor (TH32/33) Open/short of outdoor thermistors (TH3, TH6, TH7 and TH8)  Check if connectors(TH3,TH4,TH6,TH7,TH8 and TH32/33) on outdoor controller board and connector (CN6) on outdoor power board are disconnected.  Measure resistance value of outdoor thermistors.
13	U5		6 time blinking	Abnormality of heatsink temperature  Check if indoor/outdoor units have a short cycle on their air ducts.  Measure resistance value of outdoor thermistor(TH8).
14	U9		7 time blinking	Abnormality of voltage  Check looseness, disconnection, and converse connection of compressor wiring.  Measure resistance value among terminals on compressor using a tester.  Check if power supply voltage decreases.  Check the wiring of CN52C.
15	P1/P2/P9	4 time blinking	1 time blinking	Abnormality of room temperature thermistor (TH1) Abnormality of pipe temperature thermistor /Liquid (TH2) Abnormality of pipe temperature thermistor/Condenser-Evaporator  Check if connectors (CN20, CN21, CN29 and CN44) on indoor controller board are not disconnected.  Measure resistance value of indoor thermistors.

Mr. SLIM - Outdoor Unit			Unit	PUY-P42, 48, 125VKA.TH / PUY-M125VKA-SG
No.	Check code	Indica LED1 (Green)	tion LED2 (Red)	Description
16	P4 / P5	4 time blinking	2 time blinking	Abnormality of drain sensor (DS) Float switch(FS) connector open Indoor drain overflow protection  Check if connector (CN31)(CN4F) on indoor controller board is not disconnected.  Measure resistance value of indoor thermistors.  Measure resistance value among terminals on drain pump using a tester.  Check if drain pump works.  Check drain function.
17	P6		3 time blinking	Freezing (cooling)  Check if indoor unit has a short cycle on its air duct.  Check if heat exchanger and filter is not dirty.  Measure resistance value on indoor and outdoor fan motors.  Check if the inside of refrigerant piping is not clogged.
18	P8		4 time blinking	<ul> <li>Abnormality of pipe temperature</li> <li>Check if indoor thermistors(TH2 and TH5) are not disconnected from holder.</li> <li>Check if stop valve is open.</li> <li>Check converse connection of extension pipe. (on plural units connection)</li> <li>Check if indoor/outdoor connecting wire is connected correctly. (on plural units connection)</li> </ul>