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5-1-3. U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5	
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5-2-2-2. U-100PZ3E5, U-125PZ3E5, U-140PZ3E5	
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5-1. Contents of Remote Controller Switch Alarm Display 5-1-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

ON: ○ Blinking: ☆ OFF: ●

			Wired	remo	Virele te con iver di	trolle
	Dagas	cause of malfunction		造 也		*
	F055	ible cause of manufiction	control display	Operation	Timer	Standby
	Failure in receiving serial	Faulty remote controller			!	
	signal from remote controller's	Disconnection / Contact failure of remote controller wiring			!	1
	indoor unit	CHK(check) pins on the indoor unit control PCB are short circuited			!	
	Settings of system address, indoor unit address and group control are not made	In the case of non-group control: Power supply OFF of outdoor unit Disconnection / Contact failure of indoor / outdoor control line* In the case of group control: Auto address operation was not carried out.	E01	blink	rating la	amp
	Setting failure of nonvolatile memory IC	Faulty setting of EEPROM (IC010) on indoor unit		*		
	Failure in indoor unit serial	Faulty remote controller	E02		!	
	signal from remote controller	Wrong wiring of remote controller	E02		i	
	Error in indoor unit receiving sign	gnal from remote controller (central)	E03			į
	5	Disconnection / Contact failure of indoor / outdoor control line*			1	1
		Faulty indoor unit control PCB Faulty outdoor unit control PCB Communication circuit fuse (F302) on indoor unit control PCB opened		Stan	dby	
	Failure in indoor unit receiving serial signal from outdoor unit	Fuse on outdoor unit control PCB opened Since failure of an outdoor fan motor is considered as a cause, both outdoor unit control PCB and outdoor unit fan motor are exchanged simultaneously.	E04	lamp	blinkir	rg -
Serial		Setting error of indoor unit address Capacity of indoor / outdoor units is mismatched.				i i i i
communication	Duplication of indoor unit address	Duplication of indoor unit address setting	E08		!	
errors Missetting	Duplication of main remote controller setting	Error because of more than one remote controller setting to main	E09	blinki	ating l	¦ amp
	Improper setting	Duplication of main unit in group control	E14		ing	1
	Communication error between main and sub indoor units	E18	*	•	•	
	The total capacity of indoor units is too low.			Stan	÷ dby	
	Auto address alarm	The total capacity of indoor units is too high The numbers of indoor units is too many	E16	lamp	blinkir	ig :
	Indoor & outdoor unit type mismatched	Setting error, indoor / outdoor unit type / model mismatched	L02		1	1 1 1 1
	Duplication of group control's main indoor unit	Duplication of main indoor unit address in group control	L03	Stan		
	Group control wiring is connected to individual control indoor unit Group control wiring is connected to individual control indoor unit				s blink Itaneoi	usĬy
	Indoor unit address is not set					*
	Indoor unit capacity is not set		L09			
	4-way valve locked trouble / operation failure		L18	Stan- lamp simu	os blinking ultaneously	
				*	Conti	*

^{*} indoor / outdoor control line* : Connection cable between outdoor and indoor unit

Continued

			Wired	remo	Virele te con iver di	trolle
	Pos	ulty drain pump in pump locked por unit fan motor locked ulty wiring connections of indoor unit fan motor we error irigerant circuit error ong installation for refrigerant piping and wiring impressor discharge temperature trouble indensing pressure trouble en phase detected power supply trouble ci(IPM) temperature trouble ufficient gas level detected iddoor unit fan motor trouble door unit fan trouble indensing pressure tr	remote control display	Operation		Standby 🛞
				Ope	Timer	Stan
						1
	Indoor unit fan motor trouble	·	P01			
	Foultry vising compactions of (a	·	P09	-		1
	raulty wiring connections of (co		P09			
					-	1
	Activation of float switch		P10		r and s	
	wiring		_ 110		blinkir nately	ıg
		High water alarm for the case of Middle static pressure duct (PF) model installed vertically		•	*	<u> </u>
	Faulty drain pump	Faulty drain pump	P11		1	1
	radity arani pamp	Drain pump locked				
	Indoor unit fan motor trouble	Indoor unit fan motor locked Faulty wiring connections of indoor unit fan motor	P12			
	Valve error					
Activation of protective device	Discharge temperature protective alarm	P03				
	Activation of high pressure switch	Condensing pressure trouble	P04			
	Power supply failure	Open phase detected AC power supply trouble	P05	Opera	i ating ar	nd
	HIC sensor trouble HIC(IPM) temperature trouble				dby lamp ing alterr)
	Insufficient gas	Insufficient gas level detected	P15	l .	y altern	1 .
	Compressor overcurrent troubl	P16	🌣		*	
	Fan motor locked / reversed airflow detected	Outdoor unit fan motor trouble Outdoor unit fan trouble	P22			! ! ! !
	Inverter compressor trouble	P29	1			
	Group control trouble	Indoor unit in group control trouble	P31			1
	Activation of current control compressor's protective device	H01				
	PAM trouble (overcurrent / over-voltage), Activation of compressor's protective device	PAM trouble	H02	Timer	lamp b	linking
	Primary current control, Activation of compressor's protective device Primary current CT sensor failure		H03			
		Indoor heat exchanger temperature sensor (E1) trouble	F01		ating a	
	Indoor unit thermistor open / short	Indoor heat exchanger temperature sensor (E2) trouble	F02	timer lamp alternately		IIIIKIIIÇ
Thermistor	opon / onort	Indoor air temperature sensor (TA) trouble	F10	*	*	•
fault	Outdoor unit thornsister	Compressor discharge temperature sensor (TD) trouble	F04		ating a	
	Outdoor unit thermistor open / short	Outdoor heat exchanger temperature sensor (C1) trouble	F06		lamp b nately	HIKINÇ
		Outdoor air temperature sensor (TO) trouble	F08	\	*	0
Nonvolatile me	emory failure	Indoor unit EEPROM trouble	F29	timer simul	ating ar lamp b taneou	olinking sly

5-2. PAC System Alarm Codes 5-2-1. Indoor

Alarms for indoor units

Alarm Code	Alarm Meaning
E01	Remote Controller Reception Error
E02	Remote Controller Transmission Error
E03	Error in Indoor Unit Receiving Signal from Remote Controller (central)
E04	Error in Indoor Unit Receiving Signal from the Outdoor Unit
E08	Duplicate Indoor Unit Address Settings Error
E09	More Than One Remote Controller Set to Main Error
E14	Main Unit duplication in Simultaneous-operation Multi Control (detected outdoor unit)
E15	Auto Address Alarm (The total capacity of indoor units is too low.)
E16	Auto Address Alarm (The total capacity of indoor units is too high or the total number of indoor units is too many.)
E18	Faulty Communication in Group Control Wiring

	P09	Faulty wiring connections of (ceiling) indoor unit panel
ı	P31	Group Control Error

Check Prior to Auto Address Setting

In the case of below, conduct this process after diagnosing the problem.

- The remote controller or the outdoor unit displays an alarm
- The "Assigning" screen appears on the LCD display for more than 10 minutes

1 Auto Address	1-1 Is the power of the indoor unit(s) and outdoor unit(s) on?		Yes	2-1		
71001033	1-1	is the power of the indoor drift(s) and outdoor drift(s) on?		No	Power on	
2 Indoor /				Yes	3-1	
outdoor wiring	Z=1 lo it all composted compostly?		No	Connect the wiring correctly		
3 Installation or setting	Be sure that the indoor and outdoor units are connected		Yes	3-2		
related	J-1	with correct combination written in catalog.	No	Cor	rect the connection	
	3-2	Is the remote control wiring connected with two indoor / outdoor combinations or more for group control?		Yes	3-3	
	J-Z			No	3-4	
	Turn on the power of only one system and run auto address setting again. Upon complet the auto address setting, turn on the power for the next system and run auto address set while still power switched on, units whose auto address setting have completed. (In the confidence of multiple systems, run the auto address setting respectively in due order for each systems).			to address setting leted. (In the case		
	3-4	Run the auto address setting.				
4 Relocation	4-1	Be sure that the indoor and outdoor units are connected with	Yes	4-2		
and resetting	4-1	correct combination described in the catalog.		Corr	ect the connection	
of address	4.0	Do sure that the detailed action items are made at factor action		Yes	4-3	
[U3, F3,	4-2	Be sure that the detailed setting items are made at factory setting.		No	Correct the setting	
K3, T3]	T3] 4-3 Run the auto address setting.					

• For information on the remote control's detailed settings, see 7-3 and 7-4.

· Factory setting

Item code	Item	Value
11	Indoor unit capacity	0
12	System address	99
13	Indoor unit address	99
14	Group control address	99

NOTE

The Item code numbers 11, 12, 13 and 14 can automatically be changed to the appropriate settings from factory settings listed above by making the auto address settings according to the connected outdoor unit capacity and the number of indoor units.

If needed to reset the settings after once changed, return all the item codes to the factory shipment-time settings. It is necessary to set the auto address settings once again.

1. Error Detection Method

It is judged an error if no self-addressed communication is sent to the remote controller in a 3-minute period.

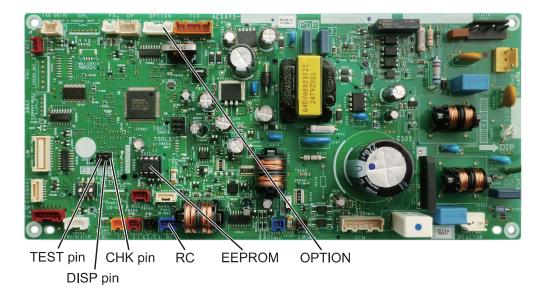
- When a remote controller is set to sub remote controller.
- When there are nine or more indoor units in a remote control group's wiring.
- When the CHK (check pin) and / or TEST (test pin) on the indoor unit control PC board are short circuited.
- The nonvolatile memory (EEPROM) is not installed or faulty when turning on the power.
- Indoor unit control PC board error.
- · Remote controller check mode.
- Malfunctions of the remote controller itself (reception circuit error).

2. Error Diagnosis

1 Auto	1-1	Is auto address setting complete?	Yes	1-2
Address	1-1	is auto address setting complete?	No	1-3
	1-2	Is there an auto address setting error (Is the outdoor unit showing	Yes	1-3
	1-2	an alarm)?	No	2-1
	1-3	Conduct checks prior to auto address setting.		
2 Group	2-1	Is that indoor unit under group control?	Yes	2-2
Control Wiring		is that moon unit under group control:	No	3-1
vviring	2-2	Land the state of	Yes	Power on
	Z - Z	control group's wiring?	No	2-3
	2-3	Are nine or more indoor units connected in one remote control	Yes	Correct the wiring
	2-3	group's wiring?	No	2-4
	2-4	Was the remote control group's wiring changed after auto address setting was complete? Alternatively, were group settings changed	Yes	2-5
	Z - 4	in the remote control detailed settings mode?	No	3-1
	2-5	No main unit in the remote control group's wiring? Re-execute auto ac	ldres	s setting.
3 Installation	3-1	Are the CHK pin and TEST pin on the indoor unit control board short-circuited?	Yes	Remove the short
or setting			No	3-2
related	3-2	Is the wireless remote controller connected to on the indoor unit's	Yes	3-3
	3-2	control PC board?	No	3-5
	3-3	Disconnect the connector mentioned above on the PC board of the indoor unit control PC board, and see whether the E01 goes off after several minutes. (When doing so, if two remote controllers are	Yes	3-4
		being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	No	3-5
	3-4	Replace wireless remote control parts including wiring.		
	3-5	Is the LED blinking on the indoor unit's control PC board?	Yes	3-6
	J-5	is the EED billiking on the indoor drift's control FC board?	No	3-7
	3-6	The nonvolatile memory (EEPROM) on the indoor unit's control PC be installed, improperly installed or the nonvolatile memory is faulty. Corr replacing the nonvolatile memory, write model data to it in the remote settings mode.	ect th	nis or after
		le though a hout minusiping discompanion upon a contact of	Yes	Correct the wiring
	3-7	Is there a short, miswiring, disconnection, wrong contact or grounding in the remote control's wiring?	No	Replace the indoor unit's control board.

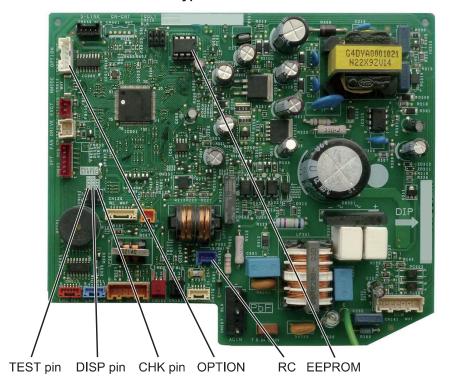
- · Regarding the remote controller check, refer to the Reference Materials.
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit and / or replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit service board.

■ ACXA73-3129* : 4-Way Cassette Type Indoor Unit Control Board



■ ACXA73-3440* : Middle Static Pressure Duct Type Indoor Unit Control Board





■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



TEST pin DISP pin CHK pin RC EEPROM OPTION



TEST pin DISP pin CHK pin RC EEPROM OPTION

E02 Remote Controller Transmission Error

1. Error Detection Method

When the remote controller itself cannot transmit. Or when it cannot receive the signal it transmitted itself, or when they are different and judged an error.

• Malfunction of the remote controller itself (transmit circuit error).

2. Error Diagnosis

1 Remote	1-1	Is the indoor unit under group control?	Yes	1-2
Control		to the mader and arguery control.	No	2-1
Group Wiring	1-2	Are the wires 1 (white) & 2 (black) to the remote control group	Yes	Correct the wiring
VVIIIII	1-2	shorted or opened?	No	2-1
2 Group	2-1	Is the wireless remote controller connected to on the indoor unit's control PC board?	Yes	2-2
Control	2-1		No	2-4
Wiring	2-2	several minutes. (When doing so, if two remote controllers are	Yes	2-3
			No	2-4
	2-3	Replace wireless remote control parts including wiring.		
	2-4	Is there a short, miswiring, open, wrong contact or grounding	Yes	Correct the wiring
			No	Replace the indoor unit's control PC board

- Regarding the remote controller check, refer to the Reference Materials.
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit and / or replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit service board.

E03 Error in Indoor Unit Receiving Signal from Remote Controller (central)

(When indoor unit(s) are connected)

1. Error Detection Method

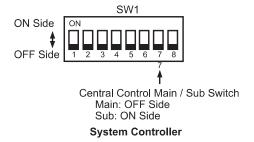
It is judged an error when there is no communication from any remote controller (collectively) in a 3-minute period or if there is no communication from the central device in a 15-minute period.

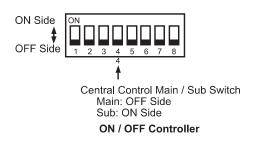
- When there was once communication, but during use the remote control wiring is opened or miswired.
- The line to the central control unit for indoor / outdoor operations is opened.
- · Settings are made only for sub remote controller.
- The power to the central control unit is not on and remote controllers are not being used (or the inter-unit control wiring to the central control unit is opened).
- When remote controller are not being used, only the sub remote controller is set up.

2. Error Diagnosis

1 Central	1-1	Is the central control unit connected?	Yes	1-2
control unit	1-1	is the central control unit connected?	No	2-1
	1-2	2 Is the central control unit's powered off?	Yes	Power on
	1-2	is the central control unit's powered on?	No	1-3
	1-3	Are all the Main / Sub switches on the connected central control unit	Yes	1-4
	1-3	set to Sub?	No	1-5
	1-4	Of the central control units that are connected, set only the uppermost Main and the others to Sub. The order from top to bottom is communic \rightarrow system controller \rightarrow ON / OFF controller.		
	1-5	Is the inter-unit control wiring connected to the central control unit	Yes	Correct the setting
	1-5	opened?	No	2-1
2 Remote	2-1	Us the indoor unit under group control?	Yes	2-2
controller			No	3-1
	2-2		Yes	Correct the setting
			No	3-1
3 Indoor	3-1	1 le trie Wildiede ferriete derittener derittedted to err trie mader amit e	Yes	3-2
unit	3-1	control PC board?	No	3-4
control PC board	board Dis	of the indoor unit control PC board, and see whether the E03 goes off	Yes	3-3
	3-2	being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	No	3-4
	3-3	Replace wireless remote control parts including wiring.		
		le there a chart minuring open urong contact or gravitation	Yes	Correct the wiring
	3-4	Is there a short, miswiring, open, wrong contact or grounding in the remote control's wiring?	No	Replace the indoor unit control board

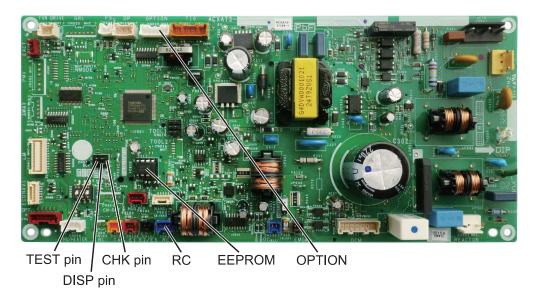
- · Regarding the remote controller check, refer to the Reference Materials.
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit and / or replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit service board.



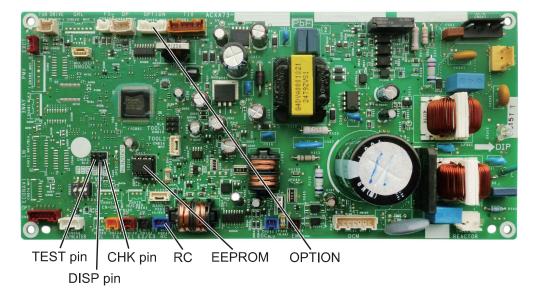


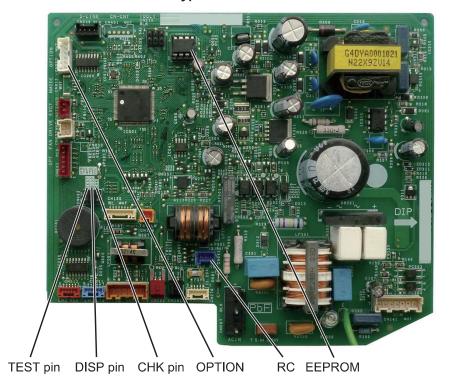
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit, refer to the manual that is packaged with the indoor unit service board.
- For information on the remote control's detailed settings, see 7-3 and 7-4.
- The alarm also occurs when the indoor unit cannot be recognized (indoor unit only blackout, disconnection of indoor / outdoor control line*, etc.) during auto address setting.
 - * indoor / outdoor control line* : Connection cable between outdoor and indoor unit

■ ACXA73-3129*: 4-Way Cassette Type Indoor Unit Control Board



■ ACXA73-3440*: Middle Static Pressure Duct Type Indoor Unit Control Board





■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



TEST pin DISP pin CHK pin RC EEPROM OPTION



TEST pin DISP pin CHK pin RC EEPROM OPTION

E04 Error in Indoor Unit Receiving Signal from the Outdoor unit

1. Error Detection Method

When there is no communication within a 3-minute period from the outdoor unit. Or, judged an error when no reply comes from the outdoor unit.

- · The outdoor unit is not turned on.
- When the power was turned on after auto address setting was completed, the number of indoor units had been changed.
- · Forgot to turn on the indoor unit.
- The CHK pin and / or TEST pin on the indoor unit's control PC board are shorted.
- · Forgot to install the nonvolatile memory (EEPROM) when replacing the indoor unit control PC board.
- Mistakenly set the indoor unit address to Not Set in the remote control's detailed setting mode.
- · When indoor unit addresses are duplicated.
- · There is a short, open, wrong contact or grounding of the indoor / outdoor control line*.
- There is an error in the receiving circuit on the signal output PC board (optional control PC board).
- · Malfunctions of the outdoor unit
- The thermistor inside the indoor unit is grounded.
- · The capacity setting is mismatched between indoor units and the outdoor unit.

2. Error Diagnosis

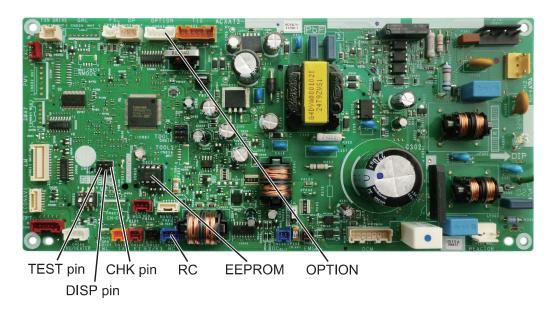
1 Power Source	1-1	-1 Is / was the power to the outdoor unit cut off?		After turning the power on, wait three minutes		
			No 1	-2		
	1 2	1-2 Us the indoor unit nowered off?)	es/	Power on	
	1-2		No	2-1		
2 Indoor / outdoor	2-1	Is the indoor / outdoor wiring connected correctly?)	⁄es	3-1	
wiring		I also masser, realization willing sermiosises services.	No	Correct the wiring		
3 Number	3-1	Was the number of indoor units increased or decreased after	_		3-2	
and setting of indoor	0 1	auto address setting was complete?		No	3-3	
units	3-2	Conduct checks prior to auto address setting.				
		Check the indoor unit addresses from the remote control's)	es/	3-2	
	3-3	detailed settings mode. Is it Not Set (99), or is the indoor unit's address duplicated?	I	No	3-4	
	Check the indoor unit capacity from the remote control's detailed settings mode. Does it match the capacity of outdoor unit?	١	es/	4-1		
		3-4 settings mode.	I	No	3-2	
4 Indoor	4-1		١	es/	Remove the short	
unit			No	4-2		
control PC board	Le the wireless remote controller connected to an the indeer unit's		es/	4-3		
1 0 board				No	4-5	
		of the indoor unit control PC board, and see whether the E04 goes	off	⁄es	4-4	
			No	4-5		
	4-4	Replace wireless remote control parts including wiring.				
	4-5	Is the LED on the indoor unit control PC board blinking?	_		4-6	
	7 0	To the EED on the indoor drift control (a board billinning :	I	No	4-7	
	4-6	The nonvolatile memory (EEPROM) on the indoor unit's control PC improperly installed or the nonvolatile memory is faulty. Correct this nonvolatile memory, write model data to it in the remote control det	s or a	fter	replacing the	
	4-7				or unit control board unit control board	

^{*} indoor / outdoor control line* : Connection cable between outdoor and indoor unit

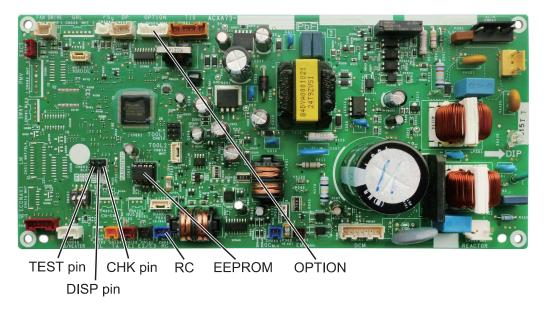
- Regarding the remote controller check, refer to the Reference Materials.
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit and / or replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit service board.

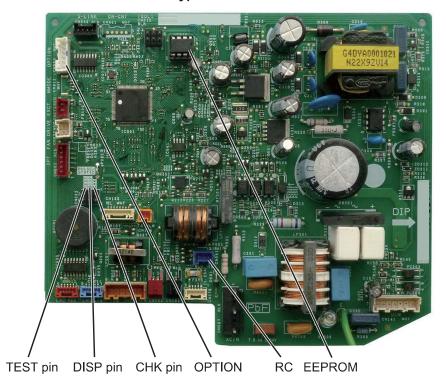
Indoor Unit Control PCB

■ ACXA73-3129*: 4-Way Cassette Type Indoor Unit Control Board



■ ACXA73-3440*: Middle Static Pressure Duct Type Indoor Unit Control Board





■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



TEST pin DISP pin CHK pin RC EEPROM OPTION



TEST pin DISP pin CHK pin RC EEPROM OPTION

E08 Duplicate Indoor Unit Address Settings Error

1. Error Detection Method

It is judged an error if the addresses of indoor units are duplicated.

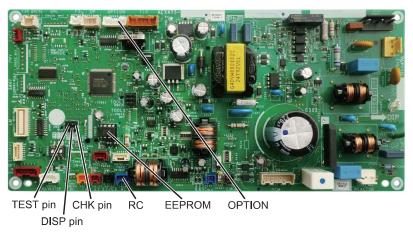
- The indoor unit address settings are duplicated in the remote control detailed settings mode.
- · The multiple unit DISP pin is shorted across the indoor unit whose address is Not Set.

2. Error Diagnosis

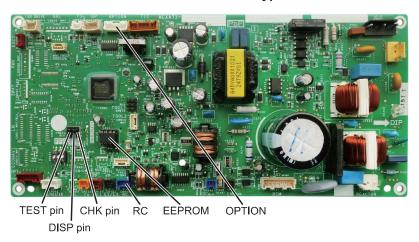
1 Indoor unit control	1-1	Is the DISP pin on the indoor unit control PC board shorted?		Remove the short
	1-1	is the bish pin on the indoor drift control he board shorted?	No	1-2
PC board	1-2	Conduct checks prior to auto address setting.	Yes	1-3
		Does E08 fail to go off even after running auto address setting again?	No	1-4
	1-3	The nonvolatile memory (EEPROM) on the indoor unit board has failed Replace the EEPROM.	d.	
	1-4	Do not make changes to indoor unit addresses with the detailed setting controller. Make them in the remote control address change mode.	gs of	the remote

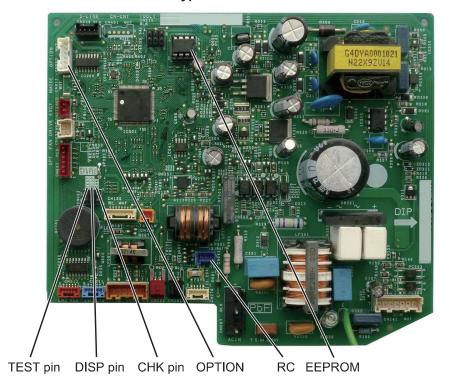
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit, refer to the manual that is packaged with the indoor unit service board.
 - For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit, refer to the manual that is packaged with the indoor unit service board.
 - For information on the remote control's detailed settings, see 7-3 and 7-4.
 - The alarm also occurs when the indoor unit cannot be recognized (indoor unit only blackout, disconnection of indoor / outdoor control line*, etc.) during auto address setting.
 - * indoor / outdoor control line*: Connection cable between outdoor and indoor unit

■ ACXA73-3129* : 4-Way Cassette Type Indoor Unit Control Board



■ ACXA73-3440*: Middle Static Pressure Duct Type Indoor Unit Control Board





■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



TEST pin DISP pin CHK pin RC EEPROM OPTION



TEST pin DISP pin CHK pin RC EEPROM OPTION

E09 More Than One Remote Controller Set to Main Error

1. Error Detection Method

It is judged an error when more than one remote controller in a remote control group is set as the main remote controller.

- Forgot to set one remote controller to sub in a 2-remote control group.
- When using one wireless and one wired remote controller in a control group, forgot to set one of them to sub.

2. Error Diagnosis

1 Remote controller	1-1	Set one of the 2 remote controllers to sub.
---------------------	-----	---

Method for setting a remote controller to sub

<CZ-RTC6 series>

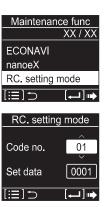
- (1) Press and hold the ≡, and for 4 seconds or more simultaneously.
- (2) Select "RC. setting mode".

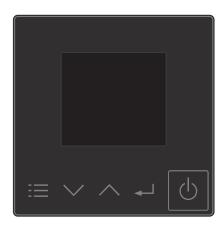


(3) Select the "Code no." and " Set data".



(Repeat)





CZ-RTC6 series

Code no.	Item	Set data			
Code no.	nem	0000	0001		
01	Main/Sub	Sub	Main		

(4) Press **=** .

· After selecting "YES", the unit restarts.

<CZ-RTC5B>

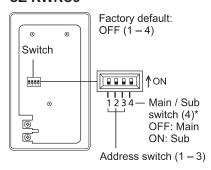
- 1. Press and hold + + + buttons for 4 seconds or more simultaneously.
- 2. Press 🔻 / 🛕 buttons to select the "3. RC. setting mode" and press the 🗔 button.
- 3. The Code no. "01" and the Set data "0001" or the like on the remote controller's display.
- 4. Press 🔻 / 🛕 buttons to select the Code no. to "01" and press the 🕨 button.
- 5. Press 🔻 / 🔼 buttons to select the Set data to "0000" (0000: Sub 0001: Main) and press the 🗔 button.
- 6. Press button. After selecting [YES], the unit restarts.

<CZ-RTC4>

- 1. Press and hold ⊚ ★○★★ + SET buttons for several seconds simultaneously.
- 2. This will display **SETTING**, the CODE No. "01" and the SET DATA "0001" or the like on the remote controller's display.
- 3. Press ▽/ △ buttons to select the CODE No. to "01".
- 4. Press buttons to select the SET DATA to "0000". (0000: Sub 0001: Main)
- 5. Press SET button (Once the display changes from flashing to steady, the setting is complete).
- 6. Once you press \bigcirc button, the remote controller returns to its normal display.

Wireless remote controller

CZ-RWRC3

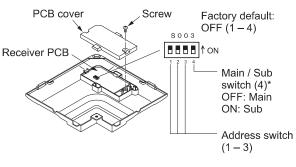


Main / Sub setting

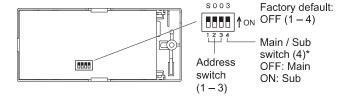
- Use this to set Main / Sub for the remote controller and the receiver.
- Set one to [Main] and the other to [Sub].
- · Factory default: [Main]
- It is recommended to set the wired remote controller to [Main].

Main / Sub	MAIN	SUB
Main / Sub switch position	1 2 3 4	1 2 3 4

CZ-RWRU3, CZ-RWRU3W

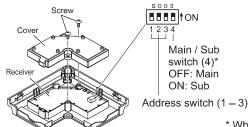


CZ-RWRT3



* When using the infrared remote controller and the wired remote controller in combination, set the wired remote controller to [Main].

CZ-RWRY3

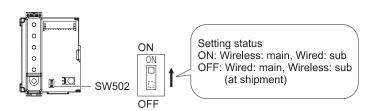


* When using the receiver and wired remote controller in combination, set the receiver to [Sub].

Wall Mounted Type

<When Using Wireless Remote Controller Instead of Wired Remote Controller>
When the wireless remote controller is to be used, slide the switch (SW502) to the ON position.

 If this setting is not made, an alarm will occur (The operation lamp on the display blinks.)
 See "8-3-2-1. < Optional parts setting and wiring>".



E14 Main Unit duplication in Simultaneous-operation Multi Control (detected outdoor unit)

1. Error Detection Method

It is judged an error that the main units are duplicated in the indoor unit group.

• Main unit setting was made in the indoor unit group control setting of the remote control detailed settings mode.

2. Failure Diagnosis

1 Group Control	1_1	-1 Are multiple indoor units set up as the main unit?		2-1
Address	' '		No	2-2
2 Installation	2-1	Set up only one indoor unit as the main unit and other indoor units to t	he sı	ıb-unit.
& Setting 2-2 Carry out the auto address setting.		Carry out the auto address setting.		

E15 Auto Address Alarm (The total capacity of indoor units is too low.)

1. Error Detection Method

Connecting indoor unit

It is judged an error the total capacity of indoor units replied by communication is lower than that of outdoor unit.

- The total capacity of indoor units is lower than that of outdoor unit.
- Some indoor unit(s) are connected but power is not turned on.
- The CHK pin (CN062 / CN071) and / or TEST pin (CN064) of the indoor unit is shorted when its power is turned on.

2. Error Diagnosis

1 Power	1-1	Is the indoor unit powered off?		Power on
Source	1-1	is the indoor unit powered on?	No	2-1
2 Indoor / outdoor	2-1	Is the indoor / outdoor wiring connected correctly?		3-1
wiring	_ '	13 the indeed / outdoor wining connected correctly:	No	Correct the wiring
3 Number of	3-1	The tree tree range of mass, and analysis and address seaming		3-2
Indoor	3-1			4-1
Units	3-2	Conduct checks prior to auto address setting.		
4 Indoor		Do sure that the detailed actting items are made at factory actting	Yes	4-2
unit control	4-1	Be sure that the detailed setting items are made at factory setting. [U3, F3, K3, T3]	No	Correct the setting Run the auto address
PC board	4-2	Are the CHK pin and TEST pin on the indoor unit control board	Yes	Remove the short
		short-circuited?		4-3
	4-3	Is the wireless remote controller connected to on the indoor unit's	Yes	4-4
		control PC board?		4-6
		Disconnect the connector mentioned above on the control PC board of the indoor unit control PC board and see whether the E15 goes off after several minutes. (When doing so, if two remote controllers are	Yes	4-5
		being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	No	4-6
	4-5	Replace wireless remote control parts including wiring.		
	4-6	L # - 1 FD	Yes	4-7
		Is the LED blinking on the indoor unit's control PC board?		5-1
	4-7	The nonvolatile memory (EEPROM) on the indoor unit's control board improperly installed or the nonvolatile memory is faulty. Correct this or nonvolatile memory, write model data to it in the remote control details	r replacing the	
5 Outdoor unit control PC board	5-1	Check all items under the section "Check Prior to Auto Address Setting".		

· Factory setting

Item code	Item	Value
11	Indoor unit capacity	0
12	System address	99
13	Indoor unit address	99
14	Group control address	99

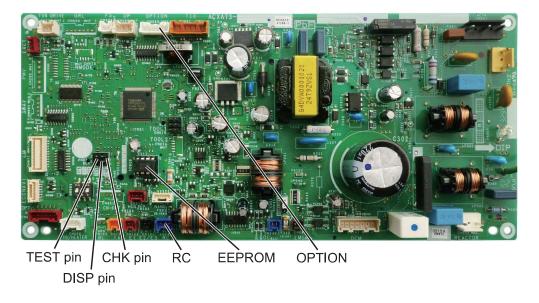
NOTE

The Item code numbers 11, 12, 13 and 14 can automatically be changed to the appropriate settings from factory settings listed above by making the auto address settings according to the connected outdoor unit capacity and the number of indoor units.

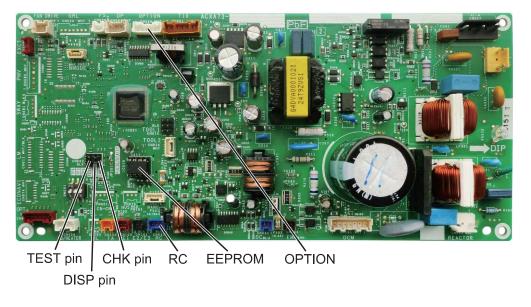
If needed to reset the settings after once changed, return all the item codes to the factory shipment-time settings. It is necessary to set the auto address settings once again.

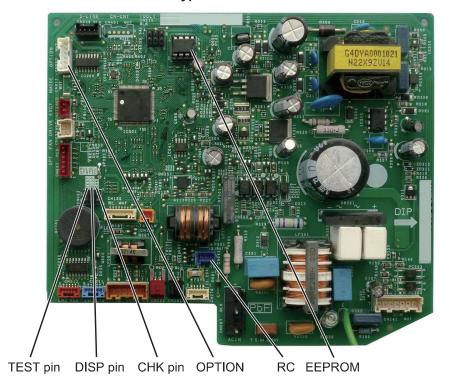
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit, refer to the manual that is packaged with the indoor unit service board.
- For information on the remote control's detailed settings, see 7-3 and 7-4.
- The alarm also occurs when the indoor unit cannot be recognized (indoor unit only blackout, disconnection of indoor / outdoor control line*, etc.) during auto address setting.
 - * indoor / outdoor control line* : Connection cable between outdoor and indoor unit

■ ACXA73-3129*: 4-Way Cassette Type Indoor Unit Control Board



■ ACXA73-3440*: Middle Static Pressure Duct Type Indoor Unit Control Board





■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



TEST pin DISP pin CHK pin RC EEPROM OPTION



TEST pin DISP pin CHK pin RC EEPROM OPTION

E16 Auto Address Alarm (The total capacity of indoor units is too high.)

1. Error Detection Method

It is judged an error the total capacity of indoor units is too high or the total number of indoor units is too many.

- The total capacity of indoor units is too high.
- The total number of indoor units is too many.
- When making group control of the different refrigerant system, the steps to turn on the systems one at a time have not been performed.

2. Error Diagnosis

1 Auto Address	1-1	Conduct checks prior to auto address setting.
-------------------	-----	---

E18 Faulty Communication in Group Control Wiring

1. Error Detection Method

When the main remote controller cannot communicate with a sub remote controller in the remote control group. It is judged an error if a sub remote controller in a remote control group fails to communicate with the main remote controller for a period of three minutes.

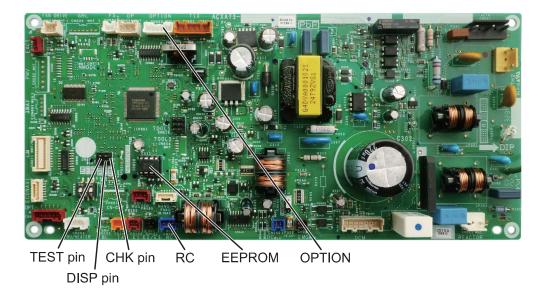
- An indoor unit within the control group does not have its power on.
- The CHK pin and TEXT pin on the indoor unit in the control group are shorted.
- The DISP pin of an indoor unit sub remote controller in the control group is shorted.
- · Remote control group wiring is opened.
- More than one indoor unit in the control group is set to Main.
- · An indoor unit in the control group is set to Separate.

2. Error Diagnosis

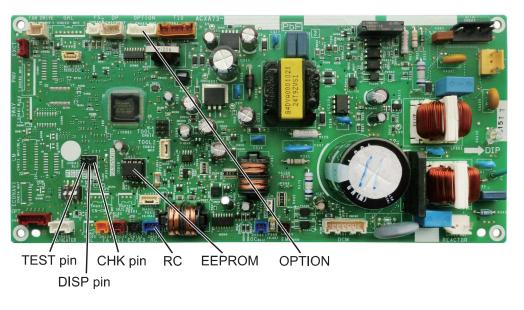
1 Indoor Unit	1-1	Is the indoor unit powered off?		Power on			
				1-2			
	1-2	The the entryin, reer pin and blor pin on the macor and control		Remove the short			
	1-2			2-1			
2 Substitute	2-1	le the remete central group's wiring anonad?	Yes	Correct the wiring			
Sub	2-1	Is the remote control group's wiring opened?		2-2			
Remote Controller	2-2	Check the group settings (Item Code 14) from the remote control's detailed settings mode. Is the main remote controller (1) set to more	Yes	2-3			
	2-2	than one remote controller or to separate (0)?		3-1			
	2-3	Is the wiring of the remote control group wired according to the	Yes	2-4			
		wiring diagram?		2-5			
	2-4	Run the auto address setting again.					
	2-5	Run the auto address setting again after correcting the wiring of the remote control group.					
3 Indoor	3-1	Is the wireless remote controller connected to on the indoor unit's	Yes	3-2			
unit		control PC board?		3-4			
control PCB		Disconnect the connector mentioned above on the control PC board of the indoor unit control PC board, and see whether the E18 goes off after several minutes. (When doing so, if two remote controllers are	Yes	3-3			
	J - Z	being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	No	3-4			
	3-3	Replace wireless remote control parts including wiring.					
	3-4	Replace the indoor unit control PC board.					

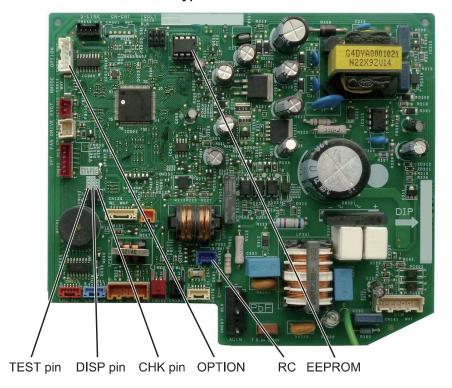
- For information on the remote control's detailed settings, see 7-3 and 7-4.
- For information on the procedures for replacing the Indoor unit control PCB, refer to the manual that is packaged with the indoor unit service board,

■ ACXA73-3129* : 4-Way Cassette Type Indoor Unit Control Board



■ ACXA73-3440* : Middle Static Pressure Duct Type Indoor Unit Control Board





■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



TEST pin DISP pin CHK pin RC EEPROM OPTION



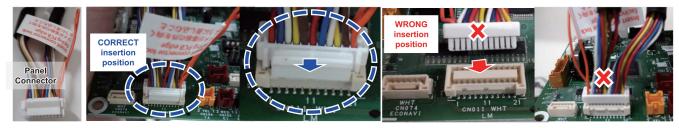
TEST pin DISP pin CHK pin RC EEPROM OPTION

P09 Error description: Indoor unit ceiling cassette air swing motor do not operate

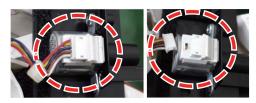
Error was judged as no connection between the ceiling cassette panel into Indoor PCB communication (feedback signal).

Possible Causes

1. Indoor unit ceiling cassette panel connector was not properly / wrongly connected into the PCB connector

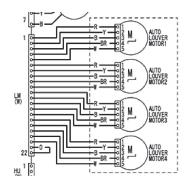


- 2. Air swing motor (inside the panel) was locked (jammed) or no operation
 - => Check the air swing motor shaft can be rotate with hand
- 3. Air swing motor (inside the panel) wiring connector loosen or wire broken
 - => Check the air swing motor wire connector connection





- => Check with multi meter at pin 1(red)-2, 1-3, 1-4 & 1-5 : 12Vdc
- => Check with multi meter at pin 6 (red)-7, 6-8, 6-9 & 6-10 : 12Vdc
- => Check with multi meter at pin 11 (red)-12, 11-13, 11-14 & 1 $\,$ 1-15 $\,$: 12Vdc $\,$
- => Check with multi meter at pin 16 (red)-17, 16-18, 16-19 & 1 $\,$ 6-20 : 12Vdc



P31 Group Control Error

1. Error Detection Method

• Other indoor unit alarms within the group.

1 Other indoor	1 1	Survey the indoor unit that alarms other than "P31" in the indoor unit group and specify the
unit	1-1	causes of failure.

5-2-2. **Outdoor**

5-2-2-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

Alarms for outdoor units

Alarm Code	Alarm Meaning					
E04	Error in Indoor Unit Receiving Signal from the Outdoor Unit					
F04	Compressor Discharge Temperature Sensor (TD) Trouble					
F06	Inlet Temperature Sensor (C1) in Heat Exchanger Trouble					
F08	Outdoor Air Temperature Sensor (TO) Trouble					
H01	Primary (input) Overcurrent Detected					
H02	PAM Trouble					
H03	Primary Current CT Sensor (current sensor) Failure					
L18	4-Way Valve Operation Failure					
P03	Compressor Discharge Temperature Trouble					
P04	High Pressure Trouble					
P05	AC Power Supply Trouble					
P07	HIC (IPM) Temperature Trouble					
P13	Alarm Valve Open					
P15	Insufficient Gas Level Detected					
P16	Compressor Overcurrent Trouble					
P22	Outdoor Unit Fan Motor Trouble					
P29	Lack of INV compressor wiring, INV compressor actuation failure (including locked), DCCT failure					

Error Codes Table

Diagnosis display	Abnormality / Protection control	Abnormality Judgment	Protection Operation	Problem	Check location
E04	Indoor / outdoor abnormal communication	After operation for 1 minute	Indoor fan only operation can start by entering into force cooling operation	Indoor / outdoor communication not establish	Indoor / outdoor wire terminal Indoor / outdoor PCB Indoor / outdoor connection wire
F04	Compressor temperature sensor abnormality	Continuous for 5s	_	Compressor temperature sensor open or short circuit	Compressor temperature sensor lead wire and connector
F06	Outdoor heat exchanger temperature sensor 1 abnormality	Continuous for 5s	_	Outdoor heat exchanger temperature sensor 1 open or short circuit	Outdoor heat exchanger temperature sensor 1 lead wire and connector
F08	Outdoor air temperature sensor abnormality	Continuous for 5s	_	Outdoor air temperature sensor open or short circuit	Outdoor air temperature sensor lead wire and connector
H01	Indoor high pressure protection	_	_	Indoor high pressure protection (Heating)	Check indoor heat exchangerAir filter dirtyAir circulation short circuit
H02	Power factor correction (PFC) circuit protection	4 times happen within 20 minutes	_	Power factor correction circuit abnormal	Outdoor PCB faulty
H03	Outdoor current transformer (CT) abnormality	_	_	Current transformer faulty or compressor faulty	Outdoor PCB faulty or compressor faulty
L18	4-way valve switching abnormality	4 times happen within 30 minutes	_	4-way valve switching abnormal	4-way valve Lead wire and connector
P03	Compressor overheating protection	4 times happen within 20 minutes	_	Compressor overheat	Insufficient refrigerant
P04	Outdoor cooling high pressure protection	4 times happen within 20 minutes	_	Cooling high pressure protection	Check refrigeration systemOutdoor air circuit
P05	Indoor / outdoor misconnection abnormality	_	_	Indoor and outdoor rated voltage different	• Indoor and outdoor units check
P07	Power transistor module overheating protection	4 times happen within 30 minutes	_	Power transistor module overheat	PCB faultyOutdoor air circuit (fan motor)
P15	Refrigeration cycle abnormality	2 times happen within 20 minutes		Refrigeration cycle abnormal	 Insufficient refrigerant or valve close
P16	Outdoor direct current (DC) peak detection	Continuous happen for 7 times	_	Power transistor module current protection	Power transistor module faulty or compressor lock
P22	Outdoor fan motor mechanism lock	2 times happen within 20 minutes	_	Outdoor fan motor lock or feedback abnormal	Outdoor fan motor lead wire and connector Fan motor lock or block
P29	Compressor abnormal revolution	4 times happen within 20 minutes	_	Compressor abnormal revolution	Power transistor module faulty or compressor lock

E04 Indoor / Outdoor Abnormal Communication

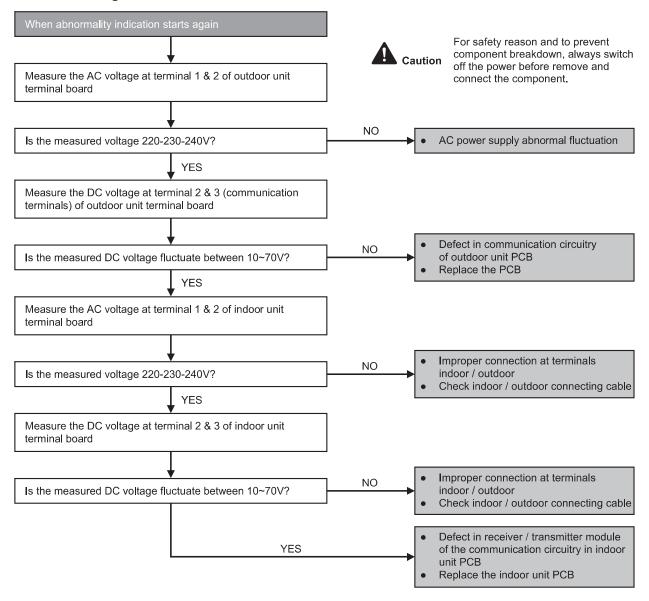
Malfunction Decision Conditions

• During startup and operation of cooling and heating, the data received from outdoor unit in indoor unit signal transmission is checked whether it is normal.

Malfunction Caused

- · Faulty indoor unit PCB.
- · Faulty outdoor unit PCB.
- Indoor unit-outdoor unit signal transmission error due to wiring error.
- Indoor unit-outdoor unit signal transmission error due to breaking of wire in the connection wires between the indoor and outdoor units.

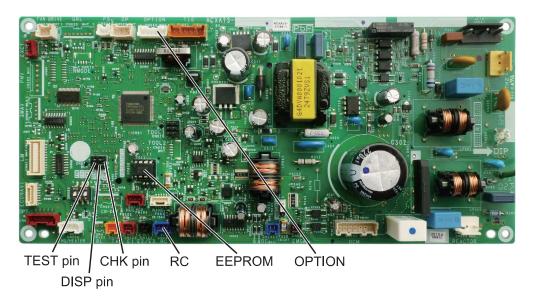
Troubleshooting



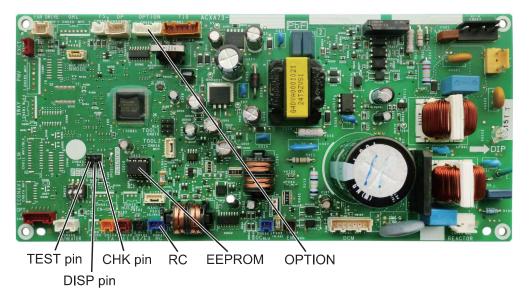
- Regarding the remote controller check, refer to the Reference Materials.
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit and / or replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit service board.

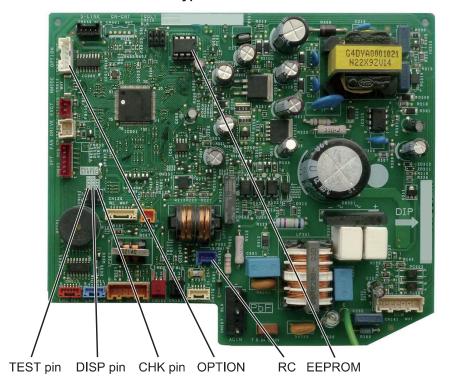
Indoor Unit Control PCB

■ ACXA73-3129*: 4-Way Cassette Type Indoor Unit Control Board



■ ACXA73-3440* : Middle Static Pressure Duct Type Indoor Unit Control Board





■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



TEST pin DISP pin CHK pin RC EEPROM OPTION



TEST pin DISP pin CHK pin RC EEPROM OPTION

F04 Compressor Temperature Sensor Abnormality

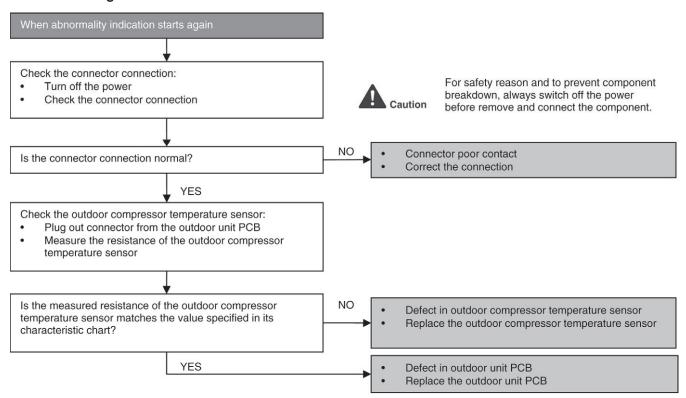
Malfunction Decision Conditions

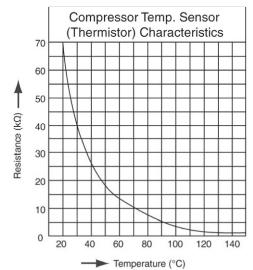
• During startup and operation of cooling and heating, the temperatures detected by the outdoor compressor temperature sensor are used to determine sensor errors.

Malfunction Caused

- · Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting





F06 Outdoor Pipe Temperature Sensor Abnormality

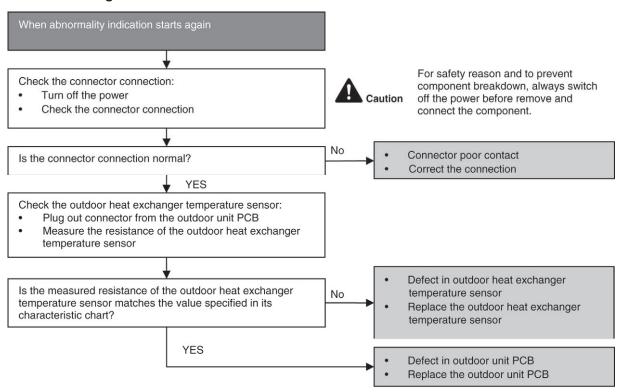
Malfunction Decision Conditions

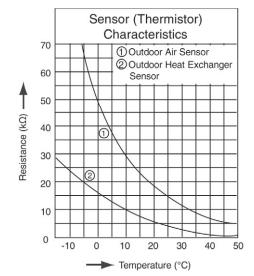
• During startup and operation of cooling and heating, the temperatures detected by the outdoor pipe temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- · Faulty PCB.

Troubleshooting





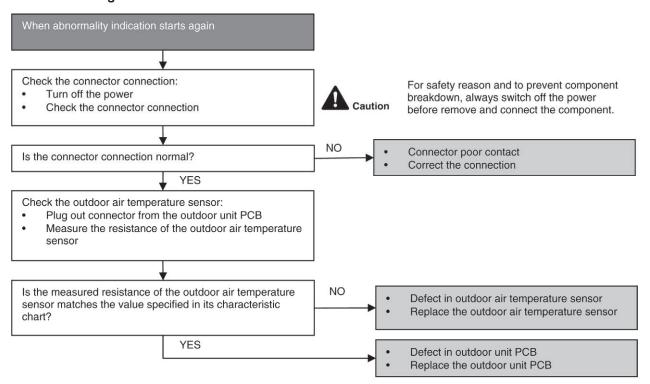
F08 Outdoor Air Temperature Sensor Abnormality

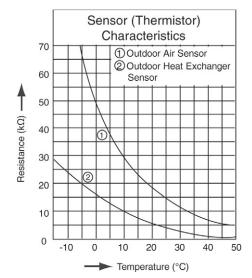
Malfunction Decision Conditions

• During startup and operation of cooling and heating, the temperatures detected by the outdoor air temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.





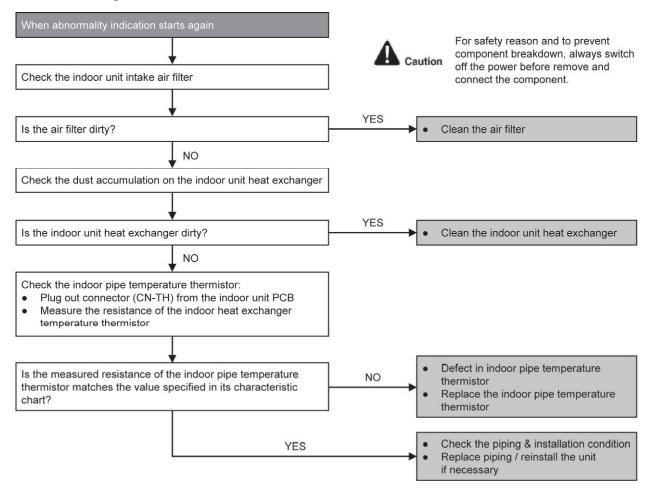
H01 Error Code Stored in Memory and no alarm is triggered / no TIMER LED flashing

Malfunction Decision Conditions

- Indoor high pressure is detected when indoor heat exchanger is detecting very high temperature when the unit is operating in heating operation.
- Phenomena: unit is stopping and re-starting very often in heating mode

Malfunction Caused

- Indoor heat exchanger thermistor
- Clogged air filter or heat exchanger
- · Over-bent pipe (liquid side)



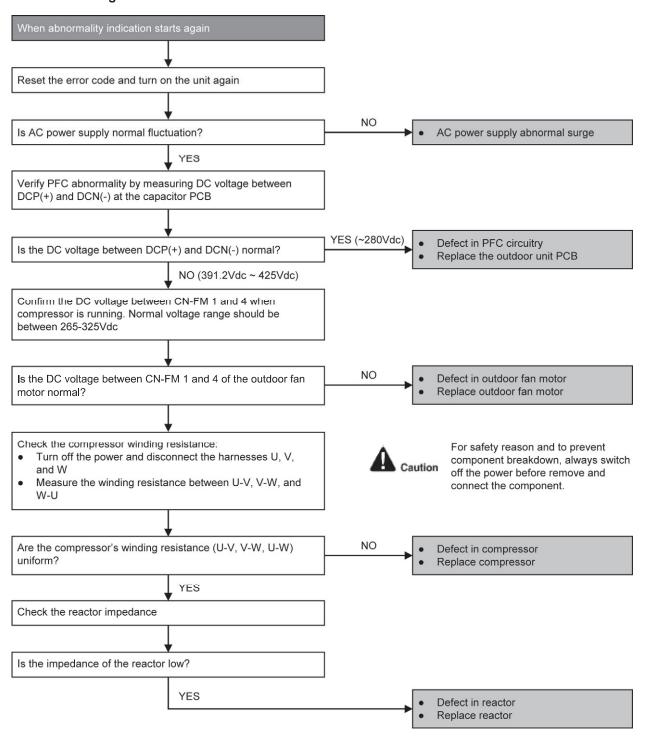
H02 Power Factor Correction Protection

Malfunction Decision Conditions

- To maintain DC voltage level supply to power transistor.
- To detect high DC voltage level after rectification.

Malfunction Caused

- During startup and operation of cooling and heating, when Power Factor Correction (PFC) protection circuitry at the outdoor unit main PCB senses abnormal DC voltage level for power transistors.
- · When DC voltage detected is LOW, transistor switching will turn ON by controller to push-up the DC level.
- When DC voltage detected is HIGH (391Vdc 425Vdc), active LOW signal will send by the controller to turn OFF relay RY-C.



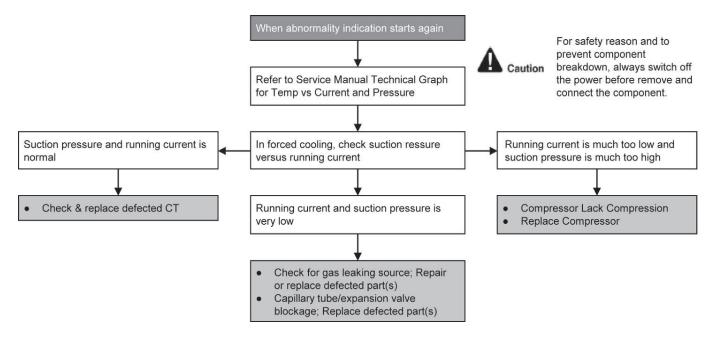
H03 Outdoor Current Transformer

Malfunction Decision Conditions

• An input current, detected by Current Transformer CT, is below threshold value when the compressor is operating at certain frequency value for 3 minutes.

Malfunction Caused

- Lack of gas
- Broken CT (current transformer)
- Broken Outdoor PCB



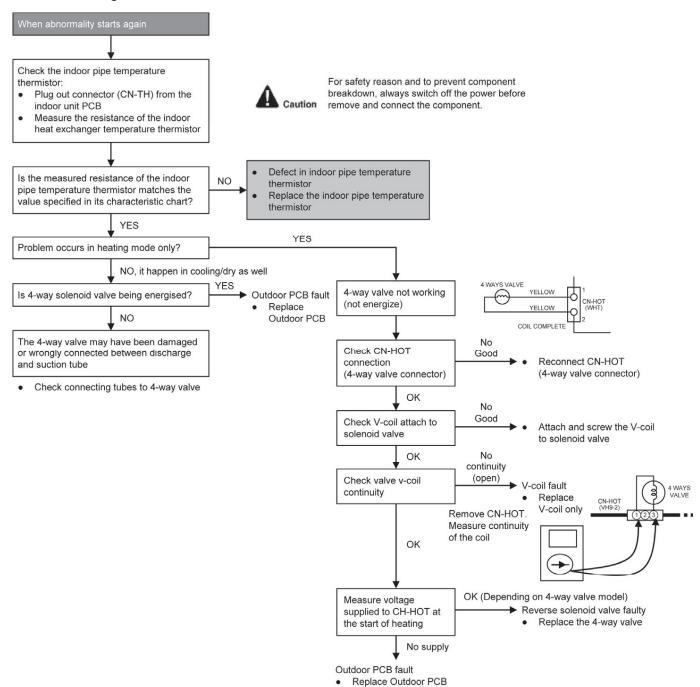
L18 4-way Valve Switching Failure

Malfunction Decision Conditions

• When indoor heat exchanger is cold during heating (except deice) or when indoor heat exchanger is hot during cooling and compressor operating, the 4-way valve is detected as malfunction.

Malfunction Caused

- Indoor heat exchanger (pipe) thermistor
- 4-way valve malfunction



^{*} Check gas side pipe - for hot gas flow in cooling mode

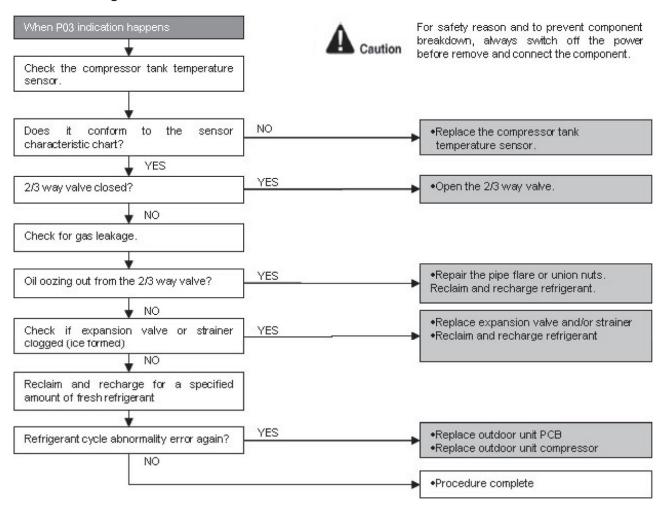
P03 Compressor Overheating

Malfunction Decision Conditions

• During operation of cooling and heating, when compressor tank temperature data (103°C) is detected by the compressor tank temperature sensor.

Malfunction Caused

- Faulty compressor tank temperature sensor
- 2 / 3 way valve closed
- Refrigerant shortage (refrigerant leakage)
- · Faulty outdoor unit PCB
- Faulty compressor



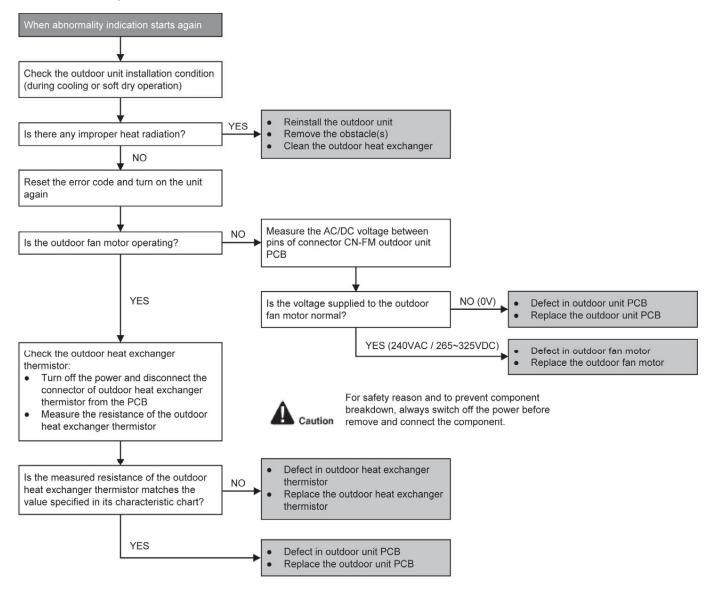
P04 Outdoor High Pressure Protection: Cooling or Soft Dry

Malfunction Decision Conditions

• During operation of cooling or soft dry, when outdoor unit heat exchanger high temperature data is detected by the outdoor unit heat exchanger thermistor.

Malfunction Caused

- Outdoor heat exchanger temperature rise due to short-circuit of hot discharge air flow.
- · Outdoor heat exchanger temperature rise due to defective of outdoor fan motor.
- Outdoor heat exchange temperature rise due to defective outdoor heat exchanger thermistor.
- · Outdoor heat exchanger temperature rise due to defective of outdoor unit PCB.



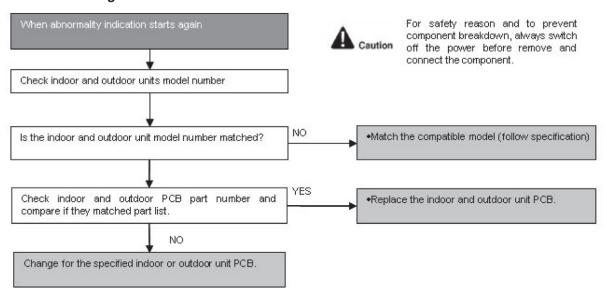
P05 Unspecified Voltage between Indoor and Outdoor

Malfunction Decision Conditions

• The supply power is detected for its requirement by the indoor / outdoor transmission.

Malfunction Caused

- Wrong models interconnected.
- · Wrong indoor unit and outdoor unit PCBs used.
- · Indoor unit or outdoor unit PCB defective.



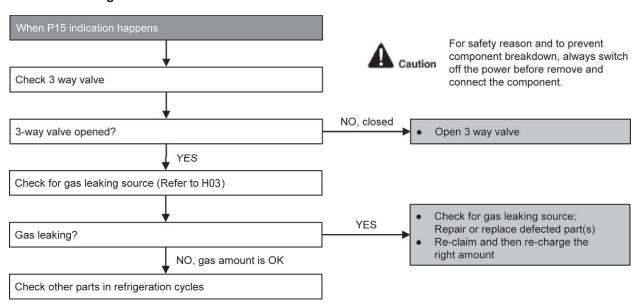
P15 Refrigeration Cycle Abnormality

Malfunction Decision Conditions

• The input current is low while the compressor is running at higher than the setting frequency.

Malfunction Caused

- · Lack of gas.
- 3-way valve close.



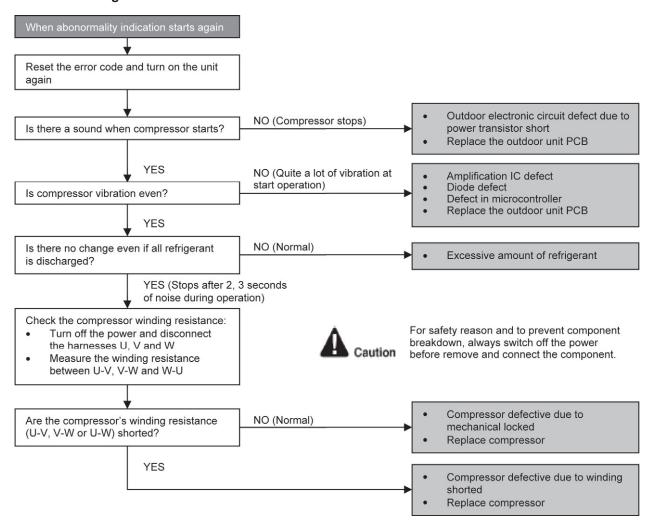
P16 DC Peak Detection

Malfunction Decision Conditions

During startup and operation of cooling and heating, when inverter DC peak data is received by the outdoor internal DC Peak sensing circuitry.

Malfunction Caused

- DC current peak due to compressor failure.
- DC current peak due to defective power transistor(s).
- DC current peak due to defective outdoor unit PCB.
- · DC current peak due to short circuit.



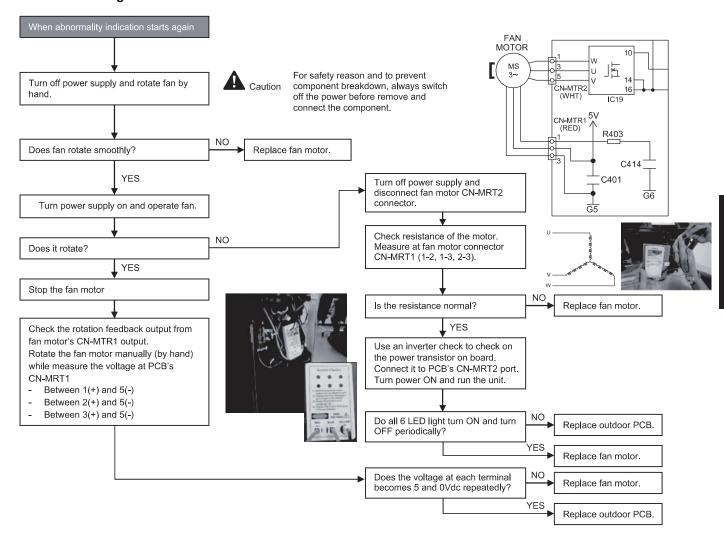
P22 Outdoor Fan Motor – DC Motor Mechanism Locked

Malfunction Decision Conditions

• The rotation speed detected by the Hall IC during fan motor operation is used to determine abnormal fan motor.

Malfunction Caused

- Operation stops due to short circuit inside the fan motor winding.
- · Operation stops due to breaking of wire inside the fan motor.
- · Operation stops due to breaking of fan motor lead wires.
- Operation stops due to Hall IC malfunction.
- · Operation error due to faulty outdoor unit PCB.



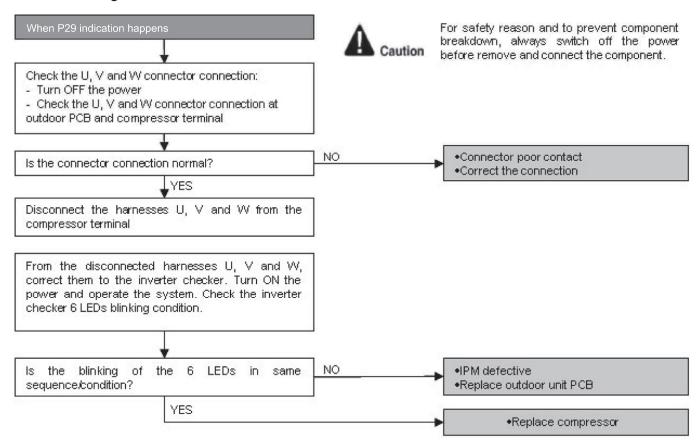
P29 Compressor Rotation Failure

Malfunction Decision Conditions

 A compressor rotation failure is detected by checking the compressor running condition through the position detection circuit.

Malfunction Caused

- Compressor terminal disconnect
- Faulty Outdoor PCB
- Faulty compressor



5-3. Inspection of Parts (Outdoor Unit)

(1) Electronic control valve (MOV1)

U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

• STM / STM1: Measure the voltage between plug pin 5 and pins 1 through 4 at the CN-STM / CN-STM1 connector (white) on the outdoor unit control PCB. (Because of the pulse output, a simplified measurement method is used.

Set the tester to the 12 V range; if the value displayed is approximately 4 V, then the voltage is normal.) If the voltage is normal, measure the resistance between connector pin 5 and pins 1 through 4. Resistance between pin 5 and pins 1 through 4 should be approximately 46 Ω for all. (If the result is 0 Ω or, ∞ then replace the coil.)

U-100PZ3E5, U-125PZ3E5, U-140PZ3E5 U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

MOV1: Measure the voltage between plug pin 5 and pins 1 through 4 at the CN-MOV1 connector (5P, white) on the outdoor unit control PCB. (Because of the pulse output, a simplified measurement method is used. Set the tester to the 12 V range; if the value displayed is approximately 4 V, then the voltage is normal.) If the voltage is normal, measure the resistance between connector pin 5 and pins 1 through 4. Resistance between pin 5 and pins 1 through 4 should be approximately 46 Ω for all. (If the result is 0 Ω or, ∞ then replace the coil.)

U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5 U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

MOV1: Measure the voltage between plug pin 5 and pins 1 through 4 at the CN-MOV1 connector (5P, white) on the outdoor unit control PCB. (Because of the pulse output, a simplified measurement method is used. Set the tester to the 12 V range; if the value displayed is approximately 4 V, then the voltage is normal.) If the voltage is normal, measure the resistance between connector pin 5 and pins 1 through 4. Resistance between pin 5 and pins 1 through 4 should be approximately 46 Ω for all. (If the result is 0 Ω or, ∞ then replace the coil.)

(2) Outdoor Unit Fan Motor

Model No.	Part No. (Panasonic)	Part No.
U-25PZ3E5	L6CAYYYL0064	NFD-52FV-D840-16
U-36PZ3E5	L6CAYYYL0064	NFD-52FV-D840-16
U-50PZ3E5	L6CAYYYL0064	NFD-52FV-D840-16
U-60PZ3E5	L6CAYYYL0076	NFD-62FV-D840-6
U-71PZ3E5	L6CAYYYL0076	NFD-62FV-D840-6
U-100PZ3E5	L6CBYYYL0302	ZKSP-160-8-1
U-125PZ3E5	L6CBYYYL0302	ZKSP-160-8-1
U-140PZ3E5	L6CBYYYL0302	ZKSP-160-8-1
U-100PZ3E8	L6CBYYYL0302	ZKSP-160-8-1
U-125PZ3E8	L6CBYYYL0302	ZKSP-160-8-1
U-140PZ3E8	L6CBYYYL0302	ZKSP-160-8-1
U-36PZH3E5	L6CAYYYL0076	NFD-62FV-D840-6
U-50PZH3E5	L6CAYYYL0076	NFD-62FV-D840-6
U-60PZH3E5	L6CAYYYL0076	NFD-62FV-D840-6
U-71PZH3E5	L6CBYYYL0283	NFD-71FW-D890-5
U-100PZH3E5	L6CBYYYL0283 L6CBYYYL0284	NFD-71FW-D890-5 NFD-71FW-D890-6
U-125PZH3E5	L6CBYYYL0283 L6CBYYYL0284	NFD-71FW-D890-5 NFD-71FW-D890-6
U-140PZH3E5	L6CBYYYL0283 L6CBYYYL0284	NFD-71FW-D890-5 NFD-71FW-D890-6
U-71PZH3E8	L6CBYYYL0283	NFD-71FW-D890-5
U-100PZH3E8	L6CBYYYL0283 L6CBYYYL0284	NFD-71FW-D890-5 NFD-71FW-D890-6
U-125PZH3E8	L6CBYYYL0283 L6CBYYYL0284	NFD-71FW-D890-5 NFD-71FW-D890-6
U-140PZH3E8	L6CBYYYL0283 L6CBYYYL0284	NFD-71FW-D890-5 NFD-71FW-D890-6

(3) Coil Resistance of Compressor

	Part No.		Inverter compressor (at 20°C)		
Model No.	(Panasonic)	Part No.	U - V	V - W	U - W
U-25PZ3E5	ACXB09-03470	9RS102XFA21	1.211	1.211	1.211
U-36PZ3E5	ACXB09-03470	9RS102XFA21	1.211	1.211	1.211
U-50PZ3E5	ACXB09-04960	9RD132XAB21	1.897	1.882	1.907
U-60PZ3E5	ACXB09-04940	9RD132XAA21	1.897	1.882	1.907
U-71PZ3E5	ACXB09-04950	9KD240XBA21	0.720	0.708	0.726
U-100PZ3E5	ACXB09-05130	9VD330XAB21	0.872	0.884	0.859
U-125PZ3E5	ACXB09-05140	9VD420XAB21	0.659	0.670	0.650
U-140PZ3E5	ACXB09-05140	9VD420XAB21	0.659	0.670	0.650
U-100PZ3E8	ACXB09-05180	9VD330XBA21	3.071	3.125	3.031
U-125PZ3E8	ACXB09-05190	9VD420XBA21	2.510	2.561	2.475
U-140PZ3E8	ACXB09-05190	9VD420XBA21	2.510	2.561	2.475
U-36PZH3E5	ACXB09-04940	9RD132XAA21	1.897	1.882	1.907
U-50PZH3E5	ACXB09-04940	9RD132XAA21	1.897	1.882	1.907
U-60PZH3E5	ACXB09-04940	9RD132XAA21	1.897	1.882	1.907
U-71PZH3E5	ACXB09-08270	9RD198XAE21	1.313	1.298	1.308
U-100PZH3E5	ACXB09-06840	9VD420XAC21	0.659	0.670	0.650
U-125PZH3E5	ACXB09-06840	9VD420XAC21	0.659	0.670	0.650
U-140PZH3E5	ACXB09-06840	9VD420XAC21	0.659	0.670	0.650
U-71PZH3E8	ACXB09-08280	9RD198XBB21	5.176	5.185	5.176
U-100PZH3E8	ACXB09-06850	9VD420XBB21	2.510	2.561	2.475
U-125PZH3E8	ACXB09-06850	9VD420XBB21	2.510	2.561	2.475
U-140PZH3E8	ACXB09-06850	9VD420XBB21	2.510	2.561	2.475

5-4. How to Replace Fan Motor Middle Static Pressure Duct Type Removing Fan Motor

1. Turn off the power supply.

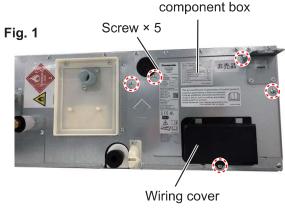
WARNING



ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

 Remove the Lid of electrical component box and the wiring cover. (Screws × 5 locations: Fig. 1)
 Make sure the PC board should not be electrified.
 Power supply LED should be lit off on PC board. (Fig. 2)

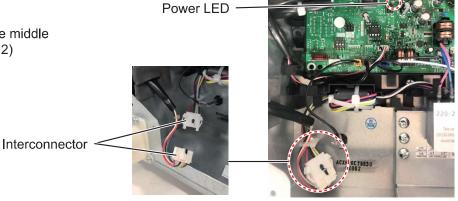
Screw



Lid of electrical

Fig. 2

3. Disconnect the interconnector in the middle of the wiring to the fan motor. (Fig. 2)



4. Remove the bottom plate. (Fig. 3)

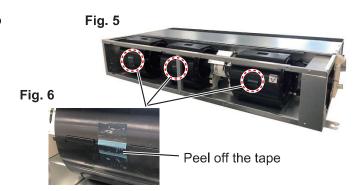


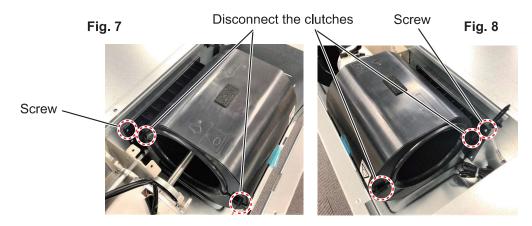
5. Disconnect the wires. (Fig. 4)

Fig. 4 Band (cut out)

Band (desorb)

6. Peel off the tape on the fan casing and remove two screws. (Fig. 6, Fig. 7, Fig. 8)
Disconnect four (4) clutches (Fig. 7, Fig. 8) fixing the lower side of the fan casing.
Then pull off the fan casing.



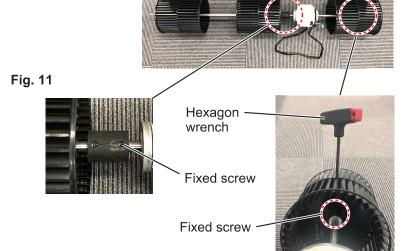


- 7. Remove the screws (M5 × 2 locations: Fig. 9) fixing the fan motor. It is recommended that a nutdriver (8mm) be used.
- 8. Remove the bracket and then remove the fan and fan motor (Fig. 9).
- 9. Loosen the fixed screw with a hexagon wrench (3mm, over 100mm in length) and remove the fan (Fig. 10).

Screw × 2

Fig. 10 Bracket

Fig. 9



Installing Fan Motor

- 1. For installation, reverse the procedure above.
- 2. Fine tune so that the fan can be positioned in the center of the fan casing.

Fig. 12

Wall Mounted Type Removing Fan Motor



1. Remove 4 screws (4×16) and detach the front grille.

2. Remove the electrical cover.



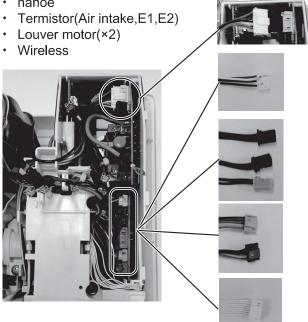
3. Remove 3 fixing screws from the terminal and ground wires.



4. Remove 1 screw (4×10) and lift the terminal cover.

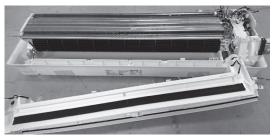


- 5. Remove the connector.
 - FAN motor
 - nanoe



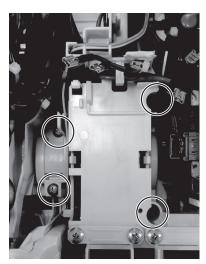
6. Remove the air discharge grille.





* Photo shows the right-hand drain.

7. Remove 4 screws (4×16) and detach the electrical component box.

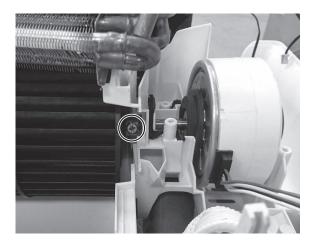


8. Remove 1 screw (4×12).

Disengage the tabs and lift the heat exchanger.



9. Remove the fixing screw of the fan.



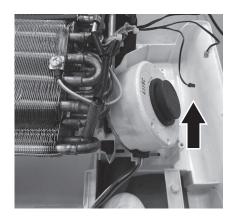
10. Disengage the fan shaft.



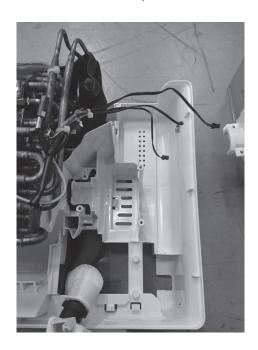
11. Pull the fan toward the front left side and remove it.



12. Lift the fan motor and remove it.



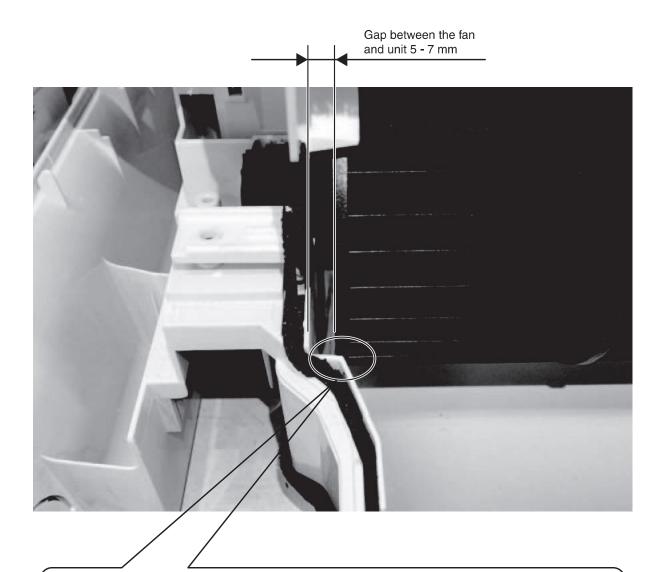
13. Uninstallation is completed.



Installing Fan Motor

Carry out installation in reverse order to assemble.

Fan installation should be made following the figure below while confirming the position.





Reference

Fan plate and corner of the wall of unit should be in the same position.

NOTE

Noise or damage to the fan can be caused by misalignment of the motor due to its mounting position.

4-Way Cassette 60 × 60 Type Removing Fan Motor

Turn off the power supply.

WARNING



ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

- Removing ceiling panel
 - (1) Disconnect the ceiling panel wiring from the terminal board of indoor unit.
 - Remove the 4 screws on the power supply board and remove the cover of the power supply board.



2 Remove the motor connector on the panel.



③ Remove the motor wire from the wiring band.



- (2) Removing ceiling panel from the indoor unit.
 - 4 Remove the 2 screws on the latch of the air intake grille.



5 Remove the air intake grille fall prevention string.



6 Remove the 4 screws.



(7) Remove the two temporary fixing latches of the panel and remove the panel.





■ Removing Air guider

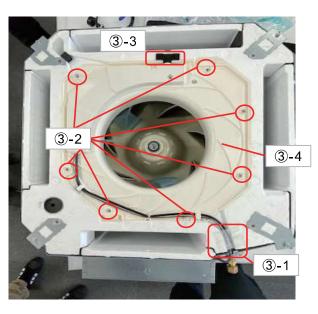
1 Remove the air intake sensor and nanoe connector.



② Remove the wiring band on the side of the electrical box and remove the wiring. Use a tool such as a flat-blade screwdriver to loosen the wiring band.







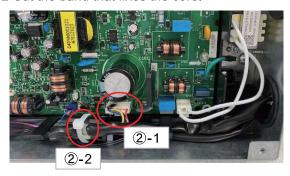
- ③-1 Remove the tape that secures the wiring.
- ③-2 Remove 7 screws.
- ③-3 Remove the sealing material from the "nanoe" air outlet.

 Do not dispose of the sealing material as it needs to be reused during installation. If it is damaged, use service parts described below. (Service parts: Parts code / ACXG32-05500)
- 3-4 Remove the air guider.

- Removing Fan Motor
 - 1) With the air guider removed, remove the nut and remove the fan.



- 2)-1 Remove the motor connector.
- 2)-2 Cut the band that fixes the core.



(4) Remove the two screws and two claws, and remove the piping fixing parts. *When installing, to confirm that the two claws are fixed.



6 Remove the wiring band. Remove the 2 screws and 3 nuts and remove the motor.



(3) Cut the band that fixes the core and remove the core. Do not dispose the core as it will be reused. If you disposed of it, be sure to arrange service parts. (Service parts: Parts code / J0KF00000067)





5 Remove the motor wiring. Since the sealing material wrapped around the wiring cannot be reused, be sure to arrange service parts and attach them to the replaced motor. (Service parts: Parts code / ACXG32-0570)









5-5. Removing Drain Pan 4-Way Cassette 60 × 60 Type

Turn off the power supply.

WARNING



ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

- Removing ceiling panel
 - (1) Disconnect the ceiling panel wiring from the terminal board of indoor unit.
 - Remove the 4 screws on the power supply board and remove the cover of the power supply board.



2 Remove the motor connector on the panel.



③ Remove the motor wire from the wiring band.



- (2) Removing ceiling panel from the indoor unit.
 - 4 Remove the 2 screws on the latch of the air intake grille.



(5) Remove the air intake grille fall prevention string.



6 Remove the 4 screws.



(7) Remove the two temporary fixing latches of the panel and remove the panel.





■ Removing Air guider

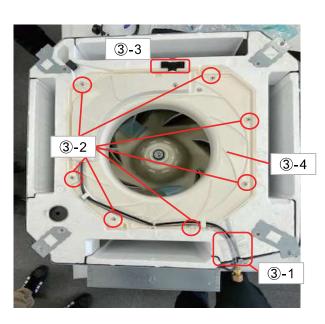
1 Remove the air intake sensor and nanoe connector.



② Remove the wiring band on the side of the electrical box and remove the wiring. Use a tool such as a flat-blade screwdriver to loosen the wiring band.



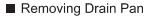




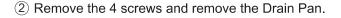
- 3-1 Remove the tape that secures the wiring.
- ③-2 Remove 7 screws.
- ③-3 Remove the sealing material from the "nanoe" air outlet.

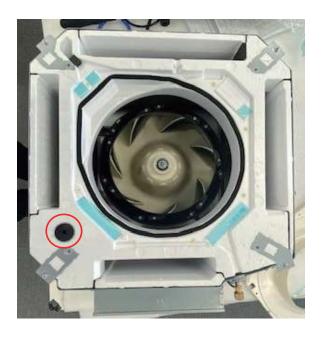
Do not dispose of the sealing material as it needs to be reused during installation. If it is damaged, use service parts described below. (Service parts: Parts code / ACXG32-05500)

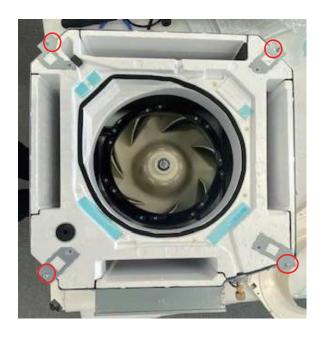
③-4 Remove the air guider.



1 Remove the rubber cap and drain the drain water.







5-6. Replacing nanoe unit 4-Way Cassette 60 × 60 Type

Turn off the power supply.

WARNING



ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

- Removing ceiling panel
 - (1) Disconnect the ceiling panel wiring from the terminal board of indoor unit.
 - Remove the 4 screws on the power supply board and remove the cover of the power supply board.



2 Remove the motor connector on the panel.



③ Remove the motor wire from the wiring band.



- (2) Removing ceiling panel from the indoor unit.
 - 4 Remove the 2 screws on the latch of the air intake grille.



(5) Remove the air intake grille fall prevention string.



6 Remove the 4 screws.



(7) Remove the two temporary fixing latches of the panel and remove the panel.





■ Replacing nanoe unit

1 Remove the air intake sensor and nanoe connector.



② Remove the wiring band on the side of the electrical box and remove the wiring. Use a tool such as a flat-blade screwdriver to loosen the wiring band.





3 Cut the wiring band.



(4) Remove the 3 screws and remove the cover.



- (5) Remove the two claws, two screws and the sealing material, and remove nanoe unit.
 - * When installing, to confirm that the two claws are fixed.
 - ** Do not dispose of the sealing material as it needs to be reused during installation.

If it is damaged, use service parts described below. (Service parts: Parts code / ACXG32-05500)



5-7. How to Replace Receiver PCB of Wireless remote controller CZ-RWRY3 Removing Receiver PCB

1. Turn off the power supply.

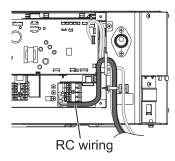
WARNING



ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

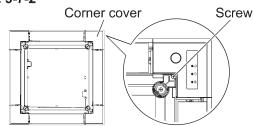
2. Disconnect the RC wiring from the terminal board of indoor unit. (Fig. 5-7-1)

Fig. 5-7-1



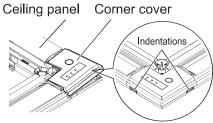
3. Remove the screw fixing the corner cover. (Fig. 5-7-2)

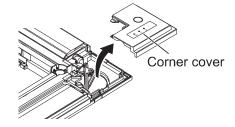
Fig. 5-7-2



4. Put your hands into the indentations on the left and right of the ceiling panel and remove the corner cover. (Fig. 5-7-3)

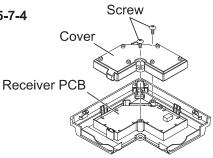
Fig. 5-7-3





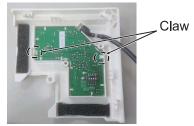
5. Remove the cover from the receiver. (Fig. 5-7-4)

Fig. 5-7-4



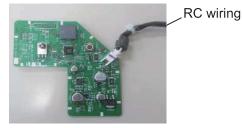
6. Remove from the claws and take out the Receiver PCB. (Fig. 5-7-5)

Fig. 5-7-5



7. Disconnect the RC wiring and replace the Receiver PCB. (Fig. 5-7-6)

Fig. 5-7-6



8. Return to the installed state by reversing the procedure.