

## [1] Before performing failure diagnosis

If the AE-200/AE-50/EW-50 is not operating normally, first check the following items.  
(The following items are for the maximum system configuration. Just check the items for the applicable equipment.)

No.	Item	Yes	No
1	Are the AE-200/AE-50/EW-50, PC, PLC, HUB, power supply unit, and other equipment and air-conditioning units powered on?		
2	Is a power cable or transmission line disconnected?		
3	Is 100 to 240 VAC applied on the AC power cable of the AE-200/AE-50/EW-50?		
4	Is 17 to 32 VDC applied on the M-NET transmission line?		
5	Have the initial settings been configured for the AE-200/AE-50/EW-50 and each equipment?		
6	Are the correct date and time set on the AE-200/AE-50/EW-50?		
7	Is the required license number registered for each AE-200/AE-50/EW-50?		
8	Is a LAN cable disconnected? (Are the LAN cables compliant with the relevant standards?)		
9	Is the IP address of each equipment set?		
10	Is a terminal screws loose or a connector not inserted properly?		

If you answered "No" for any of the above items, remove the cause for that item.  
If there is no problem, refer to the following sections.

## [2] Error code list

### 1. List of error codes for errors detected by the AE-200/AE-50/EW-50

The following shows the error codes of errors detected by the AE-200/AE-50/EW-50.

Error code	Error description	Unit where error occurred				Remarks
		Outdoor unit	Indoor unit	Remote controller	AE-200 AE-50 EW-50	
0092	Version combination error				○	AE-200 only
0093	System configuration change warning				○	AE-200 only
0094	"Charge" license not registered				○	AE-200 only
0095	Warning - possibility of damaged metering device				○	AE-200 only
0097	Apportioned calculation data collection error				○	AE-200 only
6204	External memory read/write error				○	
6600	Communication error - Address duplicate	○	○	○	○	
6601	Communication error - Polarity unsettled				○	
6602	Communication error - Transmission processor hardware error				○	
6603	Communication error - Transmission line busy				○	
6606	Communication error - Transmission processor communication error				○	
6607	Communication error - No ACK return	○	○	○		
6608	Communication error - No return of response frame	○	○	○		
6920	Communication error - No response				○	
7106	System abnormality - Attribute setting error				○	
7109	System abnormality - Connection setting error				○	
7905	Version error				○	

For details on the error codes, refer to "V [3] Troubleshooting and solutions depending on the equipment."

[Supplementary explanation] Error codes 0092 to 0095 and 0097 are for error occurrences of the AE-200 and are stored in the error history.  
Error codes 6607 and 6608 are detected only by the AE-200/AE-50/EW-50 and are for error occurrences of the AE-200/AE-50/EW-50 and are stored in the error history.

**2. Error and preliminary error code list**

The following shows the error and preliminary error codes used for air-conditioning systems. Each air-conditioning unit and other equipment uses some of these error and preliminary error codes.

Error and preliminary error codes	Description	Error and preliminary error codes	Description
0100	Equipment abnormality	1510	Refrigerant cycle - Gas leakage
01*0	Equipment abnormality (PAC-YG66DCA) in system *	1511	Refrigerant cycle not operate due to oil slick abnormality
01**	Equipment abnormality in system **	1512	Refrigerant cycle not operate due to a stop of freezing protection function
0403	Serial transmission trouble	1513	Refrigerant cycle - Brine freezing
0404	Indoor unit EEPROM error (A)	1559	Oil balance circuit abnormality
0701	Combustion circuit abnormality (A)	2000	Water system abnormality (Pump interlock abnormality)
0702	Combustion heat exchange overheating protection (A)	20*0	Water system abnormality in line *
0703	Accidental fire (A)	21**	Water system temperature abnormality - Common operand: **
0704	Heater abnormality (A)	23**	Water system pressure abnormality - Common operand: **
0705	Seismoscope malfunction (A)	2500	Water system not operate due to water leak
0706	Flame current sensor abnormality (A)	2501	Water system not operate due to water supply suspension
0707	Ignition abnormality (A)	2502	Water system not operate due to drain pump abnormality
0708	Blower motor rotation abnormality (A)	2503	Water system not operate due to drain sensor abnormality/float switch function
0709	Oil pump circuit abnormality (A)	2504	Water system not operate due to liquid level abnormality
0900	Test run	2505	Water system not operate due to cool water valve abnormality
1000	Refrigerant cycle abnormality	2506	Water system not operate due to warm water valve abnormality
10*0	Refrigerant cycle abnormality in line *	2507	Water system not operate due to dew condensation prevention control activated
1102	Discharge temperature abnormality (TH4) (A)	2600	Water system operation restricted due to water leak
1108	Inner thermo (49C) operation (A)	2601	Water system operation restricted due to water supply suspension/humidifier water supply suspension
11**	Refrigerant cycle temperature abnormality - Common operand: **	2602	Water system operation restricted due to drain pump abnormality
13**	Refrigerant cycle pressure abnormality - Common operand: **	2603	Water system operation restricted due to drain sensor abnormality
1300	Low-pressure abnormality (63L operation) (A)	2604	Water system operation restricted due to liquid level abnormality
1500	Refrigerant cycle not operate due to overcharge	2613	Drop in water flow rate
1501	Refrigerant cycle not operate due to undercharge (compressor shell temperature abnormality)	3152	Air system operation restricted due to inverter control box inner temperature abnormality
1502	Refrigerant cycle not operate due to liquid back/Low-discharge super heat abnormality (A)	3182	Air system operation restricted due to housing inner temperature abnormality
1503	Refrigerant cycle not operate due to coil frost	3600	Air system operation restricted due to filter dogging
1504	Refrigerant cycle not operate due to overheat protection	3601	Air system operation restricted due to filter maintenance
1505	Refrigerant cycle not operate due to compressor vacuum operation protection/refrigerant low temperature abnormality	3602	Air system operation restricted due to damper position detecting abnormality
1506	Refrigerant cycle not operate due to refrigerant pump abnormality	37**	Air system operation humidity abnormality allowance - Common operand: **
1507	Refrigerant cycle not operate due to composition detection abnormality	38**	Air system operation humidity abnormality - Common operand: **
1508	Refrigerant cycle not operate due to control valve fault	4000	Electric system abnormality
1509	Refrigerant cycle not operate due to high pressure abnormality (ball valve closed)	40*0	Electric system abnormality in line *

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Error and preliminary error codes	Description	Error and preliminary error codes	Description
4100	Electric system not operate due to overcurrent shut-off	426*	Inverter cooling fan trouble - Inverter No. *
4101	Electric system not operate due to overcurrent protection	5000	Sensor trouble
4102	Electric system not operate due to open phase/Open phase (T phase) (A)	50*0	Sensor trouble in system *
4103	Electric system not operate due to reversed phase/open phase	51**	Temperature sensor trouble - Sensor No.: **
4104	Electric system not operate due to electric leak	5202	Connector (63L) open (A)
4105	Electric system not operate due to short circuit	52**	Pressure sensor trouble - Sensor No.: **
4106	Electric system not operate due to self power supply OFF/power failure	5300	Current sensor abnormality (A)
4107	Electric system not operate due to overload	53**	Current sensor trouble - Sensor No.: **
4108	Electric system not operate due to overload protection/OCR51C/Open phase (S phase),51CM connector open (A)	54**	Humidity sensor trouble - Sensor No.: **
4109	Electric system not operate due to OCR51F	55**	Gas sensor trouble - Sensor No.: **
4110	Electric system not operate due to high voltage part	56**	Air speed sensor trouble - Sensor No.: **
4111	Electric system not operate due to bus current	57**	Limit switch trouble - Switch No.: **
4112	Electric system not operate due to coil overheat 49°C (120°F)	58**	Sensor trouble - Sensor No.: **
4113	Electric system not operate due to heater overheat	59**	Other sensors trouble - Sensor No.: **
4114	Electric system not operate due to fan controller abnormality	6000	System abnormality
4115	Electric system not operate due to power supply synchronism abnormality/Input circuit (board) failure	6101	System not operate due to abnormality - With response frame
4116	Electric system not operate due to motor abnormality/speed abnormality	6102	No answer back
4117	Compressor self-protection function operation (A)	6200	Controller H/W abnormality
4118	Opposite phase detection circuit (board) failure (A)	6201	E2PROM abnormality
4119	Open of 2 or more connectors (A)	6202	RTC abnormality
4121	Electric system not operate due to trouble in equipment to which a measure against higher harmonics is taken	6204	External memory read/write error
4123	Electric system not operate due to Inverter output error	6500	Communication error
4124	Electric system not operate due to damper abnormality	6600	Communication error - Address duplicate
4125	Electric system - Rush-proof circuit abnormality	6601	Communication error - Polarity unsettled
4200	Inverter abnormality	6602	Communication error - Transmission processor hardware error
420*	Inverter abnormality - Inverter No.: *	6603	Communication error - Transmission line busy
4210	Inverter overcurrent shut-off	6604	Communication error - No ACK (06H) (communication circuit error)
421*	Inverter overcurrent shut-off - Inverter No.: *	6605	Communication error - No response frame
4220	Inverter bus voltage insufficiency/Voltage abnormality (A)	6606	Communication error - Transmission processor communication error
422*	Inverter bus voltage insufficiency - Inverter No.: *	6607	Communication error - No ACK return
4230	Inverter radiating thermostat abnormality	6608	Communication error - No return of response frame
423*	Inverter radiating thermostat abnormality - Inverter No.: *	6800	Communication error - Other communication errors
4240	Inverter overcurrent (overload) protection	6801	Communication error - V-control communication error
424*	Inverter overcurrent protection - Inverter No.: *	6810	Communication error - UR communication error
4250	Inverter IPM/bus voltage abnormality/Power module abnormality (A)	6811	Communication error - UR communication synchronism not recover
425*	Inverter IPM abnormality *	6812	Communication error - UR communication hardware error
4260	Inverter cooling fan trouble	6813	Communication error - UR communication status bit detection error

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Error and preliminary error codes	Description	Error and preliminary error codes	Description
6820	Other communication errors	7105	System abnormality - Address setting over 254
6821	Other communication errors - Transmission line busy	7106	System abnormality - Attribute setting error
6822	Other communication errors - No communication ACK	7107	System abnormality - Distributor setting error
6823	Other communication errors - No response command	7108	System abnormality - Refrigerant system setting error
6824	Other communication errors - Receive data error	7109	System abnormality - Connection setting error
6830	Communication error - MA communication refrigerant address double setting error	7110	System abnormality - Refrigerant system connection/connection data unsettled
6831	Communication error - No MA communication reception error	7111	System abnormality - I/O connection equipment not connected/remote controller sensor abnormality
6832	Communication error - MA communication synchronism not recover	7112	System abnormality - I/O type setting error
6833	Communication error - MA communication transmission/reception hardware trouble	7113	System abnormality - Equipment unsettled
6834	Communication error - MA communication start bit detection error	7116	System abnormality - Replace non-wash setting error
6840	Communication error - A control no indoor/outdoor communication/reception abnormality	7117	System abnormality - Model identification setting error
6841	Communication error - A control indoor/outdoor communication synchronization recovery abnormal	7130	System abnormality - Different unit model error
6844	Communication error - A control indoor/outdoor communication incorrect indoor/outdoor wiring connection, excessive number of indoor units (more than five units)	7131	System abnormality - Mixed cooling only H/P connection error (Facility PAC)
6845	Communication error - A control indoor/outdoor communication incorrect indoor/outdoor wiring connection (telecommunication, disconnection)	7132	System abnormality - Multiple entries of operation performance (Facility PAC)
6846	Communication error - A control indoor/outdoor communication startup time exceeded	7200	System abnormality - Numeric values unsettled
6920	Communication error - No response	7201	System abnormality - Numeric values unsettled
6922	Communication error - Receiving frame ID error	73**	System abnormality - LON system equipment abnormality
7000	System abnormality	7901	Maximum connectable No. of units exceeded
7100	System abnormality - Total capacity error	7902	Connection lock error
7101	System abnormality - Capacity code error	7903	Unit information error
7102	System abnormality - Connecting unit number excess	7904	System setting error
7103	System abnormality - Piping length setting error	7905	Version error
7104	System abnormality - Floor height setting error		

**NOTE:**

- For the error codes and preliminary error codes used with each air-conditioning unit, refer to the service handbook for the corresponding air-conditioning unit.
- The unit error and communication error history can be displayed on the AE-200/AE-50/EW-50 unit LCD and in a Web browser. The preliminary error history can be monitored with the service LEDs or by connecting Maintenance Tool to the AE-200/AE-50/EW-50 via the LAN.

**[3] Troubleshooting and solutions depending on the equipment****1. How to determine the cause and resolve trouble based on the detected error display of the AE-200/AE-50/EW-50**

The following shows the details, causes, and solutions for the error codes of errors detected at the detection source by the AE-200/AE-50/EW-50.

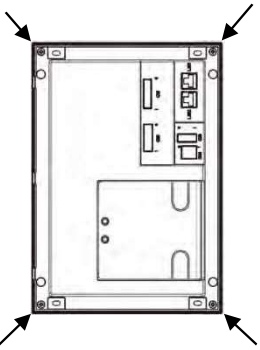
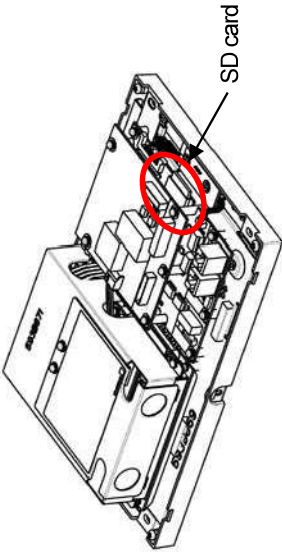
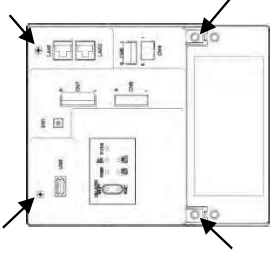
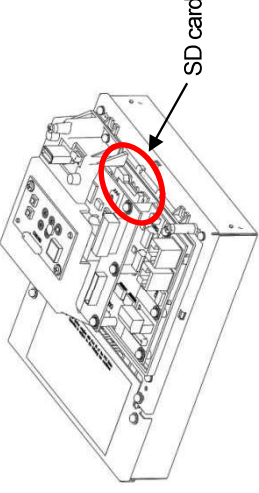
First confirm that there is no mistake for each setting.

\* The detection address displayed on the error monitor and in the error history is the address of the controller that detected the error.

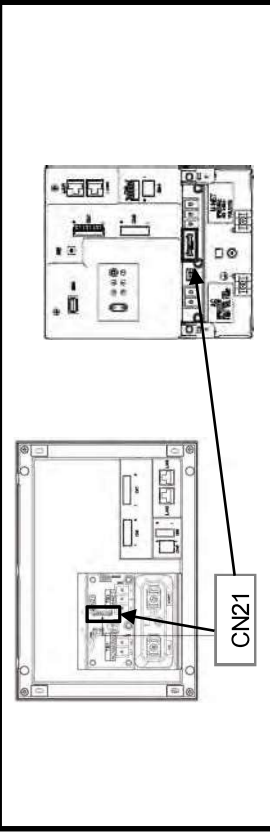
Error code	Description and method of detection	Cause	Check procedure and remedy
0092	Version combination error detected when the versions of the AE-200/AE-50/EW-50 are not a compatible combination for the apporionated electricity billing function.	1) The apporionated electricity billing function of the AE-200 has been enabled but the AE-50/EW-50 is a version that is not supported (version earlier than 7.23) by the apporionated electricity billing function.	The apporionated electricity billing function of the AE-200 does not operate while this error code is displayed. Update the AE-50/EW-50 to Ver.7.23 or later. Note: The equipment recovers from the error and then data collection resumes after a maximum of 30 minutes elapse. For how to update the software, refer to "VIII [1] AE-200/AE-50/EW-50 update procedure."
0093	System configuration change warning Error detected when the apporionated data is not restored when the AE-200/AE-50/EW-50 is replaced while the apporionated electricity billing function of the AE-200 is enabled.	1) The AE-200 and AE-50/EW-50 back up each other's data with the apporionated electricity billing function of the AE-200, but the backup data no longer matches after the AE-200/AE-50/EW-50 was replaced.	To prevent a loss of backup data, the apporionated electricity billing function of the AE-200 does not operate while this error code is displayed. Perform an apporionated data restore for the new AE-200/AE-50/EW-50. Note: The equipment recovers from the error and then data collection resumes after a maximum of 30 minutes elapse. For how to restore apporionated data, refer to AE-200 Instruction Book (Apporionated Electricity Billing Function).
0094	"Charge" license not registered Error detected when a license is not registered to any of the AE-200/AE-50/EW-50 while the apporionated electricity billing function is enabled for an AE-200 without an apporionated electricity billing function license.	1) With the apporionated electricity billing function of the AE-200, the "Charge" license needs to be registered to all the AE-50/EW-50 under the control of the AE-200, but there is equipment to which it is not registered.	The apporionated electricity billing function of the AE-200 does not operate while this error code is displayed. Register the "Charge" license to all the AE-50/EW-50 under the control of the AE-200.
0095	Warning - possibility of damaged metering device Error detected when the state of the measurement value of the meter not counting up continues for at least three days even though the operation amount of the air-conditioning units is being counted up while the apporionated electricity billing function of the AE-200 is enabled.	1) There is a wiring connection failure between the electricity meter and PI controller. (When a PI controller is used) 2) There is a wiring connection failure between the electricity meter and the built-in PI of the AE-50/EW-50. (When meter pulse input (PI) of the AE-50/EW-50 is used) 3) There is an error with communication between the PI controller and AE-50/EW-50. 4) An electricity meter with pulse output of 10 kWh/pulse or higher is being used. 5) The carried-over data was not cleared after the time period of the unit price was deleted.	Causes 1 to 3) Check the wiring connections to ensure there is no connection mistake or broken/disconnected wire. Cause 4) If an electricity meter with a large pulse output such as 10 kWh/pulse is used, three days or longer may be required to add one pulse depending on the operating conditions of the air-conditioning units. If changing the pulse output of the electricity meter is possible, change it to a value such as 1 kWh/pulse. Cause 5) Perform the carried-over data clearing process for the deleted unit price. For how to clear the carried-over data, refer to AE-200 Instruction Book (Apporionated Electricity Billing F-unction). Note: The equipment recovers from the error and then data collection resumes after a maximum of 30 minutes elapse.

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Error code	Description and method of detection	Cause	Check procedure and remedy
0097	<p>Apportioned calculation data collection error</p> <p>Error detected when an error with communication between the AE-200 and AE-50/EW-50 continues for at least three days while the apportioned electricity billing function of the AE-200 is enabled.</p> <p>* When the communication error is less than three days and the apportioned electricity billing function of the AE-200 is disabled, the error will be 6920.</p> <p>External memory read/write error</p> <p>Error detected when writing or reading to/from the internal SD card of the AE-200/AE-50/EW-50 could not be performed properly.</p>	<p>LAN contact failure</p> <ol style="list-style-type: none"> <li>1) The power of the HUB is not on.</li> <li>2) The IP address has not been set.</li> <li>3) Is the length of the LAN cable 100 m (328 ft) or less?</li> <li>4) Is the transmission delay time 4 seconds or less round trip?</li> <li>5)</li> </ol>	<p>Cause 1) Check that the LAN cables between the AE-200/AE-50/EW-50 and HUB are connected.</p> <p>Cause 2) Check that the power of the HUB is on.</p> <p>Cause 3) Check the IP address of the AE-200/AE-50/EW-50.</p> <p>Cause 4) Use LAN cables that are 100 m (328 ft) or less.</p> <p>Cause 5) Check the communication state by pinging. For the ping check method, refer to "V [5] 2. About the check method using ping." If the ping is timed out, check the following.</p> <ul style="list-style-type: none"> <li>• Are LAN cables of category 5 or better being used?</li> <li>• Is there not connections to four or more layers using a gateway, router, etc.?</li> </ul>
6204	<p>1) An error occurred because the reading or writing from/to the internal SD card could not be performed due to an unexpected erroneous operation of the AE-200/AE-50/EW-50 on which the error occurred.</p> <p>2) The internal SD card has come out of the slot.</p> <p>3) The AE-200/AE-50/EW-50 has malfunctioned (circuit failure, etc.).</p>	<p>Shut down the AC power of the AE-200/AE-50/EW-50 and then turn it back on and check the STATUS LED.</p> <ol style="list-style-type: none"> <li>a) If it is blinking in orange, shut down the AC power of the AE-200/AE-50/EW-50 and then remove the back cover. Reinsert the SD card, attach the back cover, and then turn on the AC power again. <ul style="list-style-type: none"> <li>→ If the LED is still blinking in orange, the AE-200/AE-50/EW-50 has failed. Replace the AE-200/AE-50/EW-50.</li> <li>Note: A commercially available SD card cannot be used.</li> </ul> </li> <li>b) If the LED is not blinking in orange but the 6204 error is not resolved, the AE-200/AE-50/EW-50 has failed. Replace the AE-200/AE-50/EW-50.</li> </ol>	

Error code	Description and method of detection	Cause	Check procedure and remedy
		<p>When AE-200/AE-50</p> <p>Remove the four screws in the positions indicated in the figure below, and remove the back cover.</p>  <p>When you remove the back cover, you will be able to see the SD card.</p> 	
		<p><b>Note:</b> When attaching the back cover to the AE-200/AE-50 unit, be sure to follow the procedure below.</p> <ol style="list-style-type: none"> <li>1. Check that the SD card is inserted properly.</li> <li>2. Place the back cover on the unit cover so that the right edge (SD card side) of the back cover is aligned.</li> <li>3. Move the placed back cover to the left so that it fits to the AE-200/AE-50 unit.</li> <li>4. Press the top of the back cover to insert the back cover below the claws at the top of the AE-200/AE-50 unit.</li> <li>5. Tighten the screws in four places on the back cover.</li> </ol> <p>* When attaching the cover, be very careful not to trap a wire or the SD card.</p>	
		<p>When EW-50</p> <p>Remove the four screws in the positions indicated in the figure below, and remove the back cover.</p>  <p>When you remove the back cover, you will be able to see the SD card.</p> 	

[V Troubleshooting]

Error code	Description and method of detection	Cause	Check procedure and remedy
6600	<p>Communication error - Address duplicate</p> <p>Error detected when units with the same address are transmitting.</p>	<p>1) There are two more units with the same address among the AE-200/AE-50/EW-50, outdoor units, indoor units, LOSSNAY, M-NET remote controllers, and other units.</p> <p>2) Two or more AE-200/AE-50/EW-50 with the same address set are installed in the same transmission line system. &lt;Example&gt; The part in ( ) indicates the detection source.</p> <p>000-6600(000)</p> <p>There are two or more controllers with the address "000".</p> <p>3) The transmitted data changed due to noise during transmission.</p> <p>4) While AE-200 M-NET is set to [Do not use], the power jumper (CN21) of the AE-200 was removed.</p>	<p>Causes 1) and 2) Find the unit that has the same address as the unit where the error occurred.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>If the same address could be verified, check whether there are any mistakes with the wiring and whether there are any mistakes with the addresses in the system, and fix any mistakes you find.</p> <p>Turn off the power of the air-conditioning units, controllers, and other equipment at the same time, leave it off for at least 5 minutes, and then turn it back on.</p> </div> <p>Cause 3) Check the transmission waveform and noise on the transmission line. For the check procedure, refer to "V [4] M-NET transmission waveform and noise check procedure."</p> <p>Cause 4) Check the connection of the power jumper of the AE-200. Be sure to connect the power jumper even when AE-200 M-NET is set to [Do not use].</p>
	<p>Communication error - Polarity unsettled</p> <p>1. Error detected when the transmission processor which is an M-NET communication component cannot verify the + and - voltage polarity of the M-NET transmission line.</p>	<p>1) There is no voltage between the M-NET transmission line connected to the AE-200/AE-50/EW-50.</p> <p>2) The M-NET transmission line connected to the AE-200/AE-50/EW-50 is shorted.</p> <p>3) The M-NET power supply is duplex feeding and has a different polarity connection.</p>	<p>Causes 1) and 2)</p> <p>Check whether there is a voltage to the M-NET transmission line of the AE-200/AE-50/EW-50 and fix any wiring work mistakes.</p> <p>In the case of a system for which power is supplied from the AE-200/AE-50/EW-50 to the MN converter, check that the M-NET power jumper (CN21) is connected.</p> <div style="text-align: center;">  </div>
6601	<p>2. Detected invalid signal due to a transmission waveform error or noise on the M-NET transmission line.</p>	<p>4) Contact failure of the transmission line of an outdoor unit or indoor unit.</p> <p>5) Attenuation of the transmission voltage/signal because the allowable range for the transmission line wiring has been exceeded.</p> <ul style="list-style-type: none"> <li>▪ Farthest end: Exceeds 200 m (656 ft)</li> <li>▪ Remote controller line: Exceeds 10 m (32 ft)</li> </ul> <p>However, there is no problem if the portion where the remote controller line exceeds 10 m (32 ft) is 1.25 mm<sup>2</sup>.</p> <p>6) Attenuation of the transmission voltage/signal because mismatch of transmission line types</p> <p>Wire diameter: Less than 1.25 mm<sup>2</sup></p> <p>7) The M-NET power supply is duplex feeding and has a same polarity connection.</p> <p>8) Failure of control board in the outdoor unit</p> <p>9) Defective AHC ADAPTER</p>	<p>Cause 3) Check whether power is being supplied to the M-NET transmission line from multiple equipment, and fix the power supply configuration if it is incorrect.</p> <p>Causes 4) to 8)</p> <p>→ If you find the cause, fix the problem.</p> <p>→ If you cannot find the cause, check the transmission waveform and noise on the transmission line.</p> <p>Perform the check procedure in accordance with "V [4] M-NET transmission waveform and noise check procedure" and &lt;Transmission waveform and noise check procedure&gt; in the Service Handbook of the air-conditioning unit. The part causing the error may be a different line than the one where the error was detected so check all wiring in the same system.</p>
	<p>3. Polarity not set error</p>	<p>9) Defective AHC ADAPTER</p>	<p>Check the voltage and short circuit. Replace the product.</p>



Error code	Description and method of detection	Cause	Check procedure and remedy
6602	<p>Communication error - Transmission processor hardware error</p> <p>The transmission processor intended to send "0" but "1" is output on the transmission line.</p>	<p>Cause 1) When work was performed or the polarity was changed for the transmission line of either an indoor unit or outdoor unit while the power was left on, the waveform changed and an error was detected when the transmission data collided.</p> <p>Cause 2) When a 100 V power supply was connected to the indoor unit.</p> <p>Cause 3) Ground fault of the transmission line.</p> <p>Cause 4) When a power supply unit for the transmission line is not used in a system with the AE-200/AE-50/EVW-50 connected, the power jumper is inserted in CN40 on multiple outdoor units.</p> <p>Cause 5) When a power supply unit for the transmission line is used in a system with the AE-200/AE-50/EVW-50 connected, the power jumper is inserted in CN40 on one of the outdoor units.</p> <p>Cause 6) Failure of the controller on which the error occurred.</p> <p>Cause 7) When the transmitted data changed due to noise during transmission.</p>	
6603	<p>Communication error - Transmission line busy</p> <p>1. Collision over error.</p> <p>Error when the state of data not being able to be transmitted continues for a period of 4 to 10 minutes due to a transmission collision.</p> <p>2. Error when the state of data not being output to the transmission line continues for a period of 4 to 10 minutes due to, for example, noise.</p>	<p>Cause 8) Defective AHC ADAPTER</p> <p>Refer to the CITY MULTI (Outdoor Unit) Service Handbook.</p>	<p>Check the transmission waveform and noise on the transmission line. Perform the check in accordance with &lt;Transmission waveform and noise check procedure&gt;.</p> <p>→ If there is no noise, the controller at the source of occurrence has failed.</p> <p>If the AE-200/AE-50/EVW-50 has failed, replace the AE-200/AE-50/EVW-50.</p> <p>→ If there is noise, refer to "V [4] M-NET transmission waveform and noise check procedure."</p> <p>Refer to the CITY MULTI (Outdoor Unit) Service Handbook.</p>

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Error code	Description and method of detection	Cause	Check procedure and remedy
6604	<p>M-NET communication error - No ACK return Error detected by AHC ADAPTER when the other party fails to return the ACK signal after a command transmission on M-NET.</p>	<ol style="list-style-type: none"> <li>1) Incorrect initial settings</li> <li>2) The address of the other party on the M-NET transmission line changed during transmission.</li> <li>3) Defective M-NET transmission line</li> <li>4) Transmission line or connector disconnected at the address of the other party in M-NET communications.</li> <li>5) Other party in M-NET communications is ineffective</li> <li>6) For communications about multiple refrigerants, the transmission line or connector is disconnected from the terminal block for centralized control (TB7).</li> <li>7) For communications about multiple refrigerants, power is cut to an outdoor unit.</li> <li>8) For communications about multiple refrigerants, the power connector (CN40) was not inserted in an outdoor unit.</li> <li>9) For communications about multiple refrigerants, two or more power connectors (CN40) were inserted for centralized control.</li> <li>10) For communications about multiple refrigerants, an outdoor unit power supply system is defective.</li> <li>11) Transmitted data changed due to noise on the M-NET transmission line.</li> </ol>	<p>An AHC ADAPTER No ACK return error was displayed on the remote controller or centralized controller.</p> <p>Follow the procedure below to determine the address of the unit that caused the AHC ADAPTER error.</p> <ol style="list-style-type: none"> <li>(1) Use the centralized controller or Maintenance Tool to check for abnormalities in the I/O data held in Mitsubishi air conditioners set by the initial settings. (No value is displayed when data is abnormal.) → If an abnormality exists, check for problems in the unit at the address where the corresponding data is held and for problems in the M-NET transmission line connected to the unit or in the unit itself. (For communications about multiple refrigerants, also investigate intermediate outdoor units.)</li> <li>(2) Check for incorrect remote controller or centralized controller settings that do not correspond to (1) above. → If incorrect settings are discovered at steps (1) or (2), use Maintenance Tool to repeat the initial settings.</li> </ol> <p>If the cause does not correspond to steps (1) or (2), check for noise in the M-NET transmission line.</p>
6605	<p>M-NET communication error - No return of response frame Error indicating that the ACK signal was returned to acknowledge receipt but no response was returned when a communication command was sent over M-NET.</p>	<ol style="list-style-type: none"> <li>1) Transmission line work was performed while power is supplied to M-NET.</li> <li>2) Transmitted data changed due to noise on the M-NET transmission line.</li> <li>3) Transmission line voltage/signal attenuation as M-Net transmission line exceeded its permitted length range. Remote end: 200 m max.</li> <li>4) Transmission line voltage/signal attenuation due to mismatch in M-Net transmission line types. Cable cross-sectional area: 1.25 mm<sup>2</sup> min.</li> </ol>	<p>Cut the power supply from the unit (outdoor unit or power supply unit) that supplies power to AHC ADAPTER, or reset the error from the remote controller or centralized controller. → If the same error recurs, see causes 3) and 4). → If causes 3) and 4) do not apply, check the transmission waveform and noise in the transmission line. For details about the check procedures, refer to the CITY MULTI (Outdoor Unit) Service Handbook.</p>
6606	<p>Communication error - Transmission processor communication error Failure with communication between the device processor on the board and the transmission processor.</p>	<ol style="list-style-type: none"> <li>1) Error that occurs when data was not transmitted normally due to an unexpected erroneous operation of the controller on which the error occurred.</li> <li>2) Failure of the controller on which the error occurred.</li> <li>3) Error due to abnormal data transmission due to a chance malfunction of the AHC ADAPTER.</li> <li>4) Defective AHC ADAPTER</li> </ol>	<p>Causes 1) and 2) Shut off the AC power of the AE-200/AE-50/EW-50 and then turn it back on. → If the same error occurs again, the controller on which error occurred has failed. If the AE-200/AE-50/EW-50 has failed, replace the AE-200/AE-50/EW-50. Causes 3) and 4) Cut the power supply from the unit (outdoor unit or power supply unit) that supplies power to AHC ADAPTER, or reset the error from the remote controller or centralized controller. → If the same error recurs, AHC ADAPTER is defective.</p>

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Error code	Description and method of detection	Cause	Check procedure and remedy
6607	<p>Communication error - No ACK return Error detected by the controller on the transmission side when there is no reply (ACK signal) from the other party after transmission.</p> <p>* If recovery from the error is not possible with this check method and solution, refer to the service manual of the air-conditioning unit.</p>	<p>Occurrence source address: Outdoor unit</p> <ol style="list-style-type: none"> <li>1) The transmission line of the centralized control terminal block (TB7) of the outdoor unit is disconnected or shorted.</li> <li>2) Power of the outdoor unit is shut off.</li> <li>3) The electric system of the outdoor unit has failed.</li> <li>4) When the address of the outdoor unit changes or is changed part way through operation or when the error occurred after normal operation was performed once, there are the following causes. <ul style="list-style-type: none"> <li>• System abnormality - Total capacity error (7100)</li> <li>• System abnormality - Capacity code error (7101)</li> <li>• System abnormality - Connecting unit number excess (7102)</li> <li>• System abnormality - Address setting over 254 (7105)</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>a) Check causes 1) to 4). Fix the problem if you find the cause, and proceed to b) if you do not find the cause.</li> <li>b) Shut off the power of the AE-200/AE-50/EW-50 and then turn it back on. Fix the problem if you find the cause, and proceed to c) if you do not find the cause.</li> <li>c) Check whether or not an error has occurred by checking the remote controller or the LED for failure diagnosis on the outdoor unit. When there is an error → Fix the failed part in accordance with the details on the error code.</li> </ol>
	<p>Occurrence source address: Indoor unit</p> <ol style="list-style-type: none"> <li>a) Error for only some indoor units. <ol style="list-style-type: none"> <li>1) When the address of the indoor unit changes or is changed part way through.</li> <li>2) The transmission line of the indoor unit is defective or disconnected.</li> <li>3) The connector (CN2M) of the indoor unit is disconnected.</li> <li>4) The indoor unit controller has failed.</li> </ol> </li> <li>b) All indoor units in one refrigerant system are in error <ol style="list-style-type: none"> <li>5) Outdoor unit detects the error. <ul style="list-style-type: none"> <li>• System abnormality - Total capacity error (7100)</li> <li>• System abnormality - Capacity code error (7101)</li> <li>• System abnormality - Connecting unit number excess (7102)</li> <li>• System abnormality - Address setting over 254 (7105)</li> </ul> </li> <li>6) The transmission line of the centralized control terminal block (TB7) of the outdoor unit is disconnected or shorted.</li> <li>7) Power of the outdoor unit is shut off.</li> <li>8) The electric system of the outdoor unit has failed.</li> <li>9) The address switch of the outdoor unit is mistakenly set to 000 (00).</li> </ol> </li> <li>c) All indoor units are in error <ol style="list-style-type: none"> <li>10) When a power supply unit for the transmission line is used, the power jumper (CN40) is inserted for supplying power to the centralized control transmission line of the outdoor unit.</li> <li>11) When outdoor units are used, the power jumper (CN40) is inserted for supplying power to the centralized control transmission line of multiple outdoor units.</li> <li>12) The transmission line power supply unit is disconnected or the power is shut off.</li> <li>13) The AE-200/AE-50/EW-50 has failed.</li> </ol> </li> </ol>	<p>Turn off the power of the outdoor units and indoor units at the same time, leave it off for at least 5 minutes, and then turn it back on. Shut off the power of the AE-200/AE-50/EW-50 and then turn it back on. The equipment recovers normally if an unexpected error occurred. If it does not recover normally, check causes 1) to 4).</p> <ol style="list-style-type: none"> <li>a) Check the failure diagnosis LED on the outdoor unit. → When an error is occurring, perform a check in accordance with the details on the error code. → When an error is not occurring, proceed to b)</li> <li>b) Check the details of causes 6) to 9).</li> </ol>	
	<p>Occurrence source address: Remote controller</p> <p>* Same as when the occurrence source is an indoor unit (Read that section and replace the term "indoor unit" with "remote controller" or "system remote controller")</p>	<p>Check the voltage of the centralized control transmission line. (Voltage between A and B of TB3 in the case of the AE-200/AE-50/EW-50)</p> <ul style="list-style-type: none"> <li>• When 17 V or higher → Check causes 5) to 11)</li> <li>• When less than 17 V → Check cause 12)</li> </ul>	

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Error code	Description and method of detection	Cause	Check procedure and remedy
6608	<p>Communication error - No ACK return Error detected by the controller on the transmission side when there is no reply (ACK signal) from the other party after transmission.</p> <p>Communication error - No return of response frame When transmission was performed, there was an acknowledgment (ACK) to notify that the transmission was received from the other party but the response command was not returned. The transmission side detects an error 10 consecutive times at 3-second intervals.</p>	<p>Address that should not exist An address that does not exist is set in the group registration, interlock LOSSNAY settings, or measurement settings of the AE-200/AE-50/EW-50.</p> <ol style="list-style-type: none"> <li>When work was performed or the polarity was changed for the transmission line while the power was left on, the waveform changed and an error was detected when the transmission data collided.</li> <li>Transmission fails repeatedly because of, for example, noise.</li> <li>Attenuation of the transmission line voltage/signal because the allowable range for the transmission line wiring has been exceeded. <ul style="list-style-type: none"> <li>Farthest end: 200 m (656 ft) or less</li> <li>Remote controller line: 10 m (32 ft) or less</li> </ul> </li> <li>Attenuation of the transmission voltage/signal because mismatch of transmission line types. <ul style="list-style-type: none"> <li>Wire diameter: 1.25 mm<sup>2</sup> or more</li> </ul> </li> <li>The set temperature range limit is set in a system with a remote controller that does not support the set temperature range limit connected.</li> </ol>	<p>Check whether the address that does not exist in the system configuration is set in the group registration, interlock LOSSNAY settings, or measurement settings. If it is set, delete it.</p> <ol style="list-style-type: none"> <li>When occurs during test run Turn off the power of the outdoor units, indoor units, and LOSSNAY at the same time, leave it off for at least 5 minutes, and then turn it back on. → If the equipment recovers from the error normally, the error was detected because transmission work was performed while the power was on. → If the error occurs again, proceed to b).</li> <li>Check causes 3) and 4). → If you find the cause, fix the problem. → If you do not find the cause, proceed to c).</li> <li>Check the transmission waveform and noise on the transmission line. Perform the check in accordance with &lt;Transmission waveform and noise check procedure&gt;. <div style="border: 1px solid black; padding: 2px; width: fit-content;">If 6608 is occurring, it is very likely to be due to noise.</div> d) If the cause is not any of 1) to 4), check the system operating status and configuration. → If you find the cause, reset the remote controller.</li> </ol>
6920	<p>Communication error - No return of response frame</p>	<ol style="list-style-type: none"> <li>LAN contact failure.</li> <li>The power of the HUB is not on.</li> <li>The IP address has not been set.</li> <li>Is the length of the LAN cable 100 m (328 ft) or less? Is the transmission delay time 4 seconds or less round trip?</li> </ol>	<p>Cause 1) Check that the LAN cables between the AE-200/AE-50/EW-50 and HUB are connected. Cause 2) Check that the power of the HUB is on. Cause 3) Check the IP address of the AE-200/AE-50/EW-50. Cause 5) Check the communication state by pinging. For the ping check method, refer to "V [5] 2. About the check method using ping." If the ping is timed out, check the following.</p> <ul style="list-style-type: none"> <li>Are LAN cables of category 5 or better being used?</li> <li>Is there not connections to four or more layers using a gateway, router, etc.?</li> </ul>
7106	<p>System abnormality - Attribute setting error</p>	<ol style="list-style-type: none"> <li>A unit with a different attribute (air-conditioning unit or other unit) is set for the address for which the PI controller or other device should be set.</li> <li>The unit address set for the interlock source in the interlock LOSSNAY settings is not a LOSSNAY.</li> <li>The attribute (IC/FU) setting of the OA Processing unit is not correct.</li> </ol>	<p>Cause 1) In the case of AE-200/EW-50, change the setting address of the PI controller, etc. to the correct address. Alternatively, delete it. Cause 2) Change the address set for the interlock source in the interlock LOSSNAY settings to the correct address. Alternatively, delete it. Cause 3) Switch the attribute with the dip switch. For details, refer to the installation manual for OA Processing unit.</p>

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Error code	Description and method of detection	Cause	Check procedure and remedy
7130	System abnormality - Different unit model error ALPHA2 program version mismatch error	<ol style="list-style-type: none"> <li>1) The ALPHA2 program was created and run without using the base program supplied with AHC ADAPTER.</li> <li>2) Version data has been overwritten in the base program supplied with AHC ADAPTER.</li> <li>3) The ALPHA2 base program used did not correspond to the AHC ADAPTER version.</li> </ol>	<p>Causes 1) and 2) Confirm that the ALPHA2 internal program uses the base program supplied with AHC ADAPTER. Check that the program version number matches the base program version number. =&gt; If not, recreate the ALPHA2 program from scratch using the base program supplied with AHC ADAPTER. Cause 3) (N/A as of April 2013)</p>
7905	Version error	PAC-YG50ECA is connected.	Disconnect PAC-YG50ECA from the system. If an expansion controller is required, use the AE-50/EW-50.

**NOTE:** When the error code is for a detection source other than AE-200/AE-50/EW-50, refer to the service handbook or each air-conditioning unit and perform the checks and take the corresponding measures.