

Troubleshooting (Continued)

2. Troubleshooting by Remote Controller Check Indication

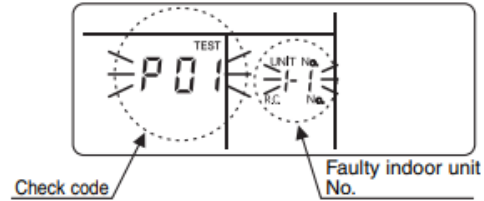
Main Remote Controller (RBC-AMT31E)

(1) Checking

When an error occurs in the air conditioner, a check code and an indoor unit number appear on the LCD of remote controller.

Check code is displayed only during operation.

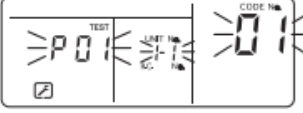
If indication disappears, check errors following "Checking Error Log" below.

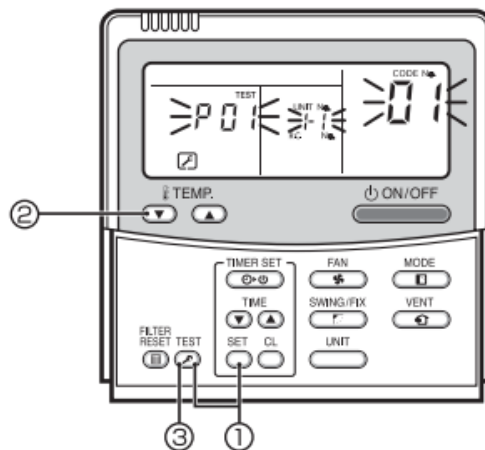


(2) Checking Error Log

When an error occurs in the air conditioner, error log can be checked following the steps below. Up to 4 errors are memorized.

Error log can be checked in both operation ON and OFF states.

Step	Operation
①	<p>Press [SET] and [TEST] at the same time for 4 seconds or more. The LCD indication changes as shown below. Indication of "SERVICE CHECK" shows that the unit is in the error log mode.</p> <ul style="list-style-type: none"> • Code No. "01" (order of error log) is displayed. • A check code is displayed. • The address of faulty indoor unit is displayed in the UNIT No. area. 
②	<p>Each pressing of TEMP. Δ/V buttons displays stored error log sequentially. Check code "01" shows the latest error, and "04" shows the oldest.</p> <p>Note Do not press [CL] as this button clears entire error log of indoor unit.</p>
③	After checking the error log, press [TEST] to return to the normal indication.



Numbers appearing on the LCD

<Seven-segment display>

0 1 2 3 4 5 6 7 8 9 A B C D E F H J L P Hexadecimal number

Failure mode detected by indoor unit

Check code	Diagnosis function			Judgment and action
	Possible causes	Air conditioner status	Conditions	
E03	No signal reception from remote controller	OFF (auto reset)	Indicated when an error is detected	1. Check remote controller wiring. • No indication on remote controller LCD (disconnection) • Central controller [C06] check code
E04	Serial signal from outdoor unit does not reach indoor unit. • Wrong wire connection • Failure of outdoor unit serial transmitter • Failure of indoor unit serial receiver	OFF (auto reset)	Indicated when an error is detected	1. When outdoor unit does not work at all • Check wires, correct wrong connection. • Check outdoor unit boards and wiring. 2. When outdoor unit works normally Check boards (indoor unit receiver, outdoor unit transmitter)
E08	Duplication of indoor unit address	OFF	Indicated when an error is detected	1. Check remote controller connection (group/individual) change after power on. * If group configuration or address is not correct, the unit enters auto address setting mode automatically for address re-setting.
L03	Duplication of header indoor unit			
L07	Group line in individual indoor unit			
L08	Indoor unit group address not set			
L09	Indoor unit capacity not set	OFF	Indicated when an error is detected	1. Set indoor unit capacity (DN=11)
L30	External interlock alarm input	OFF	Indicated when an error is detected	1. Check external devices. 2. Check indoor unit boards.
P12	Failure of indoor unit DC fan	OFF	Indicated when an error is detected	1. Position detect error 2. Overcurrent protection circuit operation of indoor unit fan driver 3. Indoor unit fan lock 4. Check indoor unit boards.
P19	Failure of 4-way valve system • Indoor unit heat exchange temperature lowers after HEAT operation starts.	OFF (auto reset)	Indicated when an error is detected	1. Check 4-way valve. 2. Check 2-way valve/check valve. 3. Check indoor unit heat exchanger (TC/TCJ). 4. Check indoor unit boards.
P31	Indoor unit OFF during alarming to other indoor units	OFF (follower units) (auto reset)	Indicated when an error is detected	1. Judging follower unit when header unit is E03, L03, L07 or L08 2. Check indoor unit boards.
F01	Improper mounting, disconnection or short-circuit of indoor unit heat exchange sensor TCJ	OFF (auto reset)	Indicated when an error is detected	1. Check TCJ. 2. Check indoor unit boards.
F02	Improper mounting, disconnection or short-circuit of indoor unit heat exchange sensor TC	OFF (auto reset)	Indicated when an error is detected	1. Check TC. 2. Check indoor unit boards.
F10	Improper mounting, disconnection or short-circuit of indoor unit room temp. sensor TA	OFF (auto reset)	Indicated when an error is detected	1. Check TA. 2. Check indoor unit boards.
F29	Failure of indoor unit EEPROM • EEPROM access error	OFF (auto reset)	Indicated when an error is detected	1. Check indoor unit EEPROM and insertion into socket. 2. Check indoor unit boards.
E18	Communication error between header and follower indoor units	OFF (auto reset)	Indicated when an error is detected	1. Check remote controller wiring. 2. Check indoor unit power wiring. 3. Check indoor unit boards.

Failure mode detected by outdoor unit (Representative codes)

- The check code used varies depending on the combination with the outdoor unit.

Diagnosis function				Judgment and action
Check code	Possible causes	Air conditioner status	Conditions	
H01	Compressor breakdown • Compressor stops due to operating frequency decrease.	OFF	Indicated when an error is detected	1. Check power voltages (200±20 VAC). 2. Freezing cycle overload operation 3. Check current detect circuit on the AC side.
H02	Compressor does not work. • Overcurrent protection circuit is activated after a certain time from compressor startup.	OFF	Indicated when an error is detected	1. Failure of compressor (lock, etc.) ... Replace the compressor. 2. Improper compressor wiring (phase loss) 3. Lost-phase operation of power supply (3-phase models)
H03	Failure of current detect circuit • Large AC current even during compressor OFF • Phase loss in power supply	OFF	Indicated when an error is detected	1. Operation stops soon when restarted. ... Check IPDU. 2. Lost-phase operation of power supply Check 3-phase power voltages and wiring.
H06*1	Low-pressure switch ON (applicable models) COOL : 30 seconds HEAT : 10 minutes	OFF	Indicated when an error is detected	1. Check freezing cycle (gas leakage). 2. Check low-pressure switch circuit. 3. Check outdoor unit CDB board.
L29	Other outdoor unit errors • CDB-IPDU communication error (connector disconnection) • Abnormal heatsink temperature (over specified value)	OFF	Indicated when an error is detected	1. Check CDB/IPDU wiring. 2. Freezing cycle overload operation
L31*1	Phase detection protection circuit activated (normal models)	Operation continued (compressor OFF)	Indicated when an error is detected	1. Check phase sequence, reverse phase, and phase loss. 2. Check outdoor unit boards. 3. Check high-pressure switch. 4. Check high-pressure switch circuit wiring.
P03	Abnormal discharge temperature (over specified value)	OFF	Indicated when an error is detected	1. Check freezing cycle (gas leakage). 2. Failure of electronic expansion valve 3. Check piping sensor (Td).
P04	Failure of high-pressure protection circuit (Temperature over specified value detected by TE sensor) High-pressure switch (normal models)	OFF	Indicated when an error is detected	1. Freezing cycle overload operation 2. Check outdoor unit TE sensor. 3. Check outdoor unit CDB board. 4. Check high-pressure switch and circuit.
P22	Failure of outdoor unit DC fan	OFF	Indicated when an error is detected	1. Position detect error 2. Overcurrent protection circuit operation of outdoor unit fan driver 3. Outdoor unit fan lock 4. Check outdoor unit CDB board.
P26	Inverter overcurrent protection circuit activated (short time) Main circuit short voltage operation	OFF	Indicated when an error is detected	1. Operation stops soon when restarted. ... Compressor partial short-circuit 2. Check IPDU for improper wiring.
P29	Failure of IPDU position detect circuit	OFF	Indicated when an error is detected	1. The circuit is activated even after compressor's 3P connector is disconnected. ...Replace IPDU.
F04	Improper mounting, disconnection or short-circuit of outdoor unit temp. sensor TD	OFF	Indicated when an error is detected	1. Check TD. 2. Check outdoor unit CDB board.
F06	Improper mounting, disconnection or short-circuit of outdoor unit temp. sensor TE, TS	OFF	Indicated when an error is detected	1. Check TE, TS. 2. Check outdoor unit CDB board.
F08	Improper mounting, disconnection or short-circuit of outdoor unit outside air temp. sensor TO	Operation continued	Indicated when an error is detected	1. Check TO. 2. Check outdoor unit CDB board.

*1 ROA-P*** is not detected by 1HS models.

Fan continues rotating in a failure mode detected by outdoor unit because there is no communication between outdoor unit and follower indoor unit in twin group.