

TOSHIBA

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10-4-1. How to Use Remote Controller in Service Mode

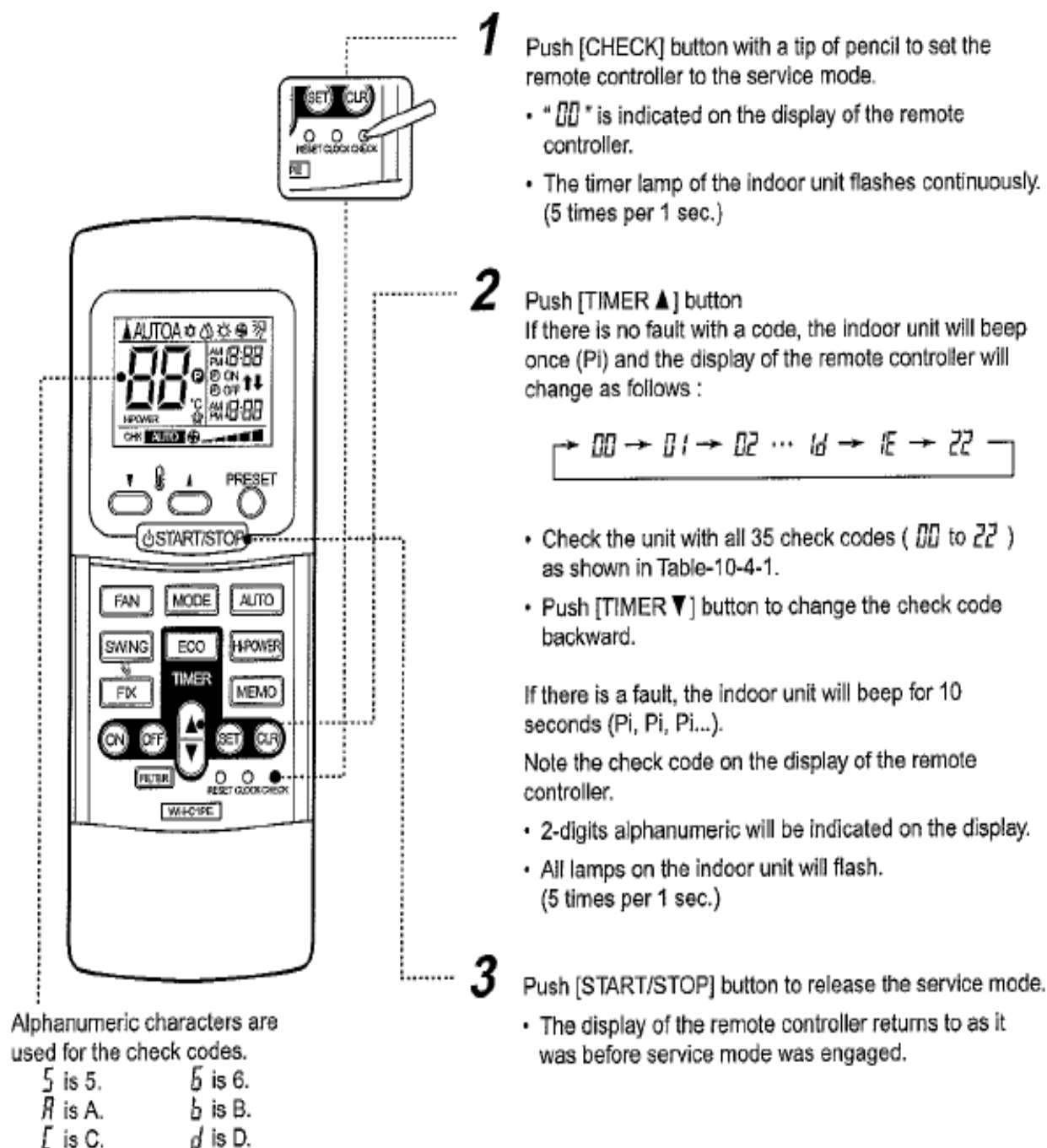


Fig. 10-4-1

Block distinction		Operation of diagnosis function				Judgment and action
Check code	Block	Check code	Cause of operation	Air conditioner status	Remarks	
00	Indoor P.C. board etc.	01	Short-circuit or disconnection of the room temperature sensor (TA sensor).	Operation continues.	Displayed when error is detected.	1. Check the room temp. sensor. 2. When the room temp. sensor is normal, check P.C. board.
		02	Being out of place, disconnection, short-circuit, or migration of heat exchanger sensor (TC sensor)	Operation continues.	Displayed when error is detected.	1. Check heat exchanger sensor. 2. When heat exchanger sensor is normal, check P.C. board.
		11	Lock of indoor fan or trouble on the indoor fan circuit	All off	Displayed when error is detected.	1. Check P.C. board. 2. When P.C. board is normal, check the motor.
	Not displayed	12	Trouble on other indoor P.C. boards	Operation continues.	Displayed when error is detected.	Replace P.C. board.
01	Connecting cable and serial signal	04	Return serial signal is not sent to indoor side from operation started. (1) Defective wiring of connecting cable (2) Operation of compressor thermo. Gas shortage Gas leak	Operation continues.	Flashes when trouble is detected on Return serial signal, and normal status when signal is reset.	1. When the outdoor unit never operate: (1) Check connecting cable, and correct if defective wiring. (2) Check 25A fuse of inverter P.C. board. (3) Check 3.15A of inverter P.C. board. 2. To display [Other] block during operation, check compressor thermo. operation and supply gas (check gas leak also). 3. Unit operates normally during check. If Return serial signal does not stop between indoor terminal board 2 and 3, replace inverter P.C. board. If signal stops between indoor terminal board 2 and 3, replace indoor P.C. board.
		05	Operation command signal is not sent to outdoor side.	Operation continues	Flashes when trouble is detected on Operation command signal, and normal status when signal is reset.	If return serial signal does not stop between indoor terminal board 2 and 3, replace inverter P.C. board. If signal stops between indoor terminal board 2 and 3, replace indoor P.C. board.

Block distinction		Operation of diagnosis function				Judgment and action
Check code	Block	Check code	Cause of operation	Air conditioner status	Remarks	
02	Outdoor P.C. board	14	Inverter over-current protective circuit operates. (Short time)	All off	Displayed when error is detected.	Even if trying operation again, all operations stop immediately. : Replace P.C. board.
		16	Position-detect circuit error or short-circuit between windings of compressor	All off	Displayed when error is detected.	1. Even if connecting lead wire of compressor is removed, position-detect circuit error occurred. : Replace P.C. board. 2. Measure resistance between wires of compressor, and perform short-circuit. : Replace compressor.
		17	Current-detect circuit error	All off	Displayed when error is detected.	Even if trying operation again, all operations stop immediately. : Replace P.C. board.
		18	Being out of place, disconnection or short-circuit of outdoor temp. sensor	All off	Displayed when error is detected.	1. Check outdoor temp. sensors (TE, TS). 2. Check P.C. board.
		19	Disconnection or short-circuit of discharge temp. sensor	All off	Displayed when error is detected.	1. Check discharge temp. sensor (TD). 2. Check P.C. board
		1A	Outdoor fan drive system error	All off	Displayed when error is detected.	Position-detect error, over-current protective operation of outdoor fan drive system, fan lock, etc. : Replace P.C. board or fan motor.
	Not displayed	1b	Outdoor heat exchanger temp. sensor error	Operation continues	—	1. Check outdoor heat exchanger temp. sensor (TE). 2. Check P.C. board.
03	Others (including compressor)	07	Compressor drive output error, Compressor error (lock, missing, etc.), Break down	All off	Displayed when error is detected.	When 20 seconds passed after start-up, position-detect circuit error occurred. : Replace compressor.
			Return serial signal has been sent when operation started, but it is not sent from halfway. (1) Compressor thermo. operation Gas shortage Gas leak (2) Instantaneous power failure	Operation continues	Flashes when trouble is detected on return serial signal, and normal status when signal is reset.	1. Repeat Start and Stop with interval of approx. 10 to 40 minutes. (Code is not displayed during operation.) Supply gas. (Check also gas leak). 2. Unit operates normally during check. If return serial signal does not stop between indoor terminal block 2 and 3, replace inverter P.C. board. If signal stops between indoor terminal block 2 and 3, replace indoor P.C. board.
			Compressor does not rotate. (Current protective circuit does not operate when a specified time passed after compressor had been activated.)	All off	Displayed when error is detected.	1. Trouble on compressor 2. Trouble on wiring of compressor (Missed phase)
			Discharge temp. exceeded 117°C	All off	Displayed when error is detected.	1. Check discharge temp. sensor (TD). 2. Degassing 3. Trouble on P.M.V.
			Break down of compressor	All off	Displayed when error is detected.	1. Check power voltage. (220~230~240 V +10%) 2. Overload operation of refrigeration cycle Check installation condition (Short-circuit of outdoor diffuser).
			Four-way valve inverse error (TC sensor value lowered during heating operation.)	Operation continues	—	1. Check four-valve operation.
	Outdoor P.C. board	1C	Compressor drive output error, Compressor error (lock, missing, etc.), Break down	All off	Displayed when error is detected.	When 20 seconds passed after start-up, position-detect circuit error occurred. : Replace compressor.

(a) Outline of judgment

The following describes the primary judgment of locating faulty unit (indoor unit or outdoor unit). (In the case of group control operation, the header unit also indicates errors of follower unit by lamp.)

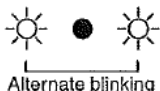
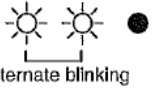
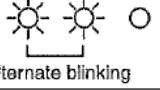
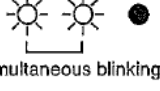
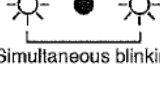
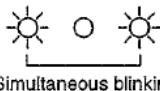
Judging from lamp status of indoor unit

The indoor unit monitors the operating status of air conditioner. When the protection circuit is activated, the indoor unit indicates the following self-diagnosis contents.

● : OFF ○ : ON ☼ : Blinking (0.5 seconds interval)

Lamp indication	Check code	Possible causes
OPERATION TIMER PREPARING ● ● ● All OFF	—	Power OFF Poor connection/contact between receiver/indication unit and indoor unit control board
OPERATION TIMER PREPARING ☼ ● ● Blinking	E01	Reception error } Wired remote Transmission error } controller Communication error } Wrong connection or poor contact between wired remote controller and indoor unit
	E02	
	E03	
	E08	Duplication of indoor unit No. } Invalid setting Duplication of remote controller header }
	E09	
OPERATION TIMER PREPARING ● ● ☼ Blinking	E18	Poor connection/contact between indoor units or indoor unit power OFF (Communication error between header and follower indoor units or between twin header and follower indoor units)
	E04	Wrong connection or poor contact between indoor unit and outdoor unit (Communication error between indoor and outdoor units)
OPERATION TIMER PREPARING ● ☼ ☼ Alternate blinking	P12	Failure of indoor unit DC fan (Protection device of indoor unit is activated.)

Outline of judgment (Continued)

Lamp indication	Check code	Possible causes
OPERATION TIMER PREPARING  Alternate blinking	P03	Abnormal outdoor unit discharge temperature } (*) Protection device of outdoor unit is activated.
	P04	
	P19	Four-way valve system error (judged by indoor unit)
	P22	Outdoor unit: Malfunction of fan } Protection device of outdoor unit is activated.
	P26	
	P29	
	P31	Header and follower indoor units in the group are not running due to the following alarm. (Alarm code: E03, L03, L07, L08)
OPERATION TIMER PREPARING  Alternate blinking	F01	Heat exchange sensor (TCJ) error } Indoor unit sensor error
	F02	
	F10	
OPERATION TIMER PREPARING  Alternate blinking	F04	Discharge temperature sensor (TD) error } (*) Outdoor unit sensor error
	F06	
	F08	
OPERATION TIMER PREPARING  Simultaneous blinking	F29	Failure of indoor unit EEPROM
OPERATION TIMER PREPARING  Blinking	H01	Compressor breakdown } (*) Outdoor unit compressor system error
	H02	
	H03	
	H06	
OPERATION TIMER PREPARING  Simultaneous blinking	L03	Duplication of header indoor unit } → Auto address
	L07	
	L08	
	L09	
OPERATION TIMER PREPARING  Simultaneous blinking	L20	Duplication of indoor unit collective address } Others
	L29	
	L30	
	L31	

(*) Check code detected by outdoor unit is a typical example. It varies with outdoor unit of combination.
For details, see the Service Guide of applicable outdoor unit.

Others (Excluding check code)

Lamp indication	Check code	Possible causes
OPERATION TIMER PREPARING  Simultaneous blinking	--	Trial operation in progress
OPERATION TIMER PREPARING  Alternate blinking	--	Invalid setting (Auto cooling/heating setting for auto cooling/heating unavailable unit or heating setting for cool only unit)

Error mode detected by remote controller or central controller

Diagnosis function				Judgment and action
Check code	Possible causes	Air conditioner status	Conditions	
No indication (remote controller disabled)	No communication with header indoor unit Remote controller is not connected correctly. Indoor unit is not powered on. Auto address setting is not completed.	OFF	--	Failure of remote controller power supply or indoor unit EEPROM 1. Check remote controller wires. 2. Check remote controller. 3. Check indoor unit power wiring. 4. Check indoor unit P.C. board. 5. Check indoor unit EEPROM and insertion into socket. ... Auto address repetition occurs.
E01 *2	No communication with header indoor unit Disconnection between remote controller and header indoor unit (detected by R/C)	OFF (auto reset) *Operation continues under central control	Indicated when an error is detected	Remote controller signal reception error 1. Check remote controller wires. 2. Check remote controller. 3. Check indoor unit power wiring. 4. Check indoor unit P.C. board.
E02	Signal transmission error to indoor unit (detected by R/C)	OFF (auto reset) *Operation continues under central control	Indicated when an error is detected	Remote controller transmission error 1. Check remote controller transmitter. ... Replace remote controller.
E09	Multiple remote controller headers (detected by R/C)	OFF (Follower R/C continues operation)	Indicated when an error is detected	1. Check for multiple remote controller headers. ... One header only, others are follower R/C.
L20 Central controller L20	Duplication of indoor unit collective address during communication of central control system (detected by indoor unit/central controller)	OFF (auto reset)	Indicated when an error is detected	1. Check central control network address setting.
-- *3 Central controller (Transmission) C05 (Reception) C06	Failure of central control communication circuit (detected by central controller)	Operation continues (following R/C)	Indicated when an error is detected	1. Check communication line, wrong connection, and indoor unit power supply. 2. Check communication circuit (U3, U4, XY terminals). 3. Check central controller (including central control R/C). 4. Check terminating resistors (TCC-LINK).
-- Central controller P30/b7	Failure of indoor unit group follower unit.	Continue/OFF (depending on situation)	Indicated when an error is detected	Check the unit's check code with remote controller

*2 No check code can be indicated by wired remote controller. (Normal operation of air conditioner cannot be controlled by wired remote controller.)
Check codes are indicated by the lamps for wireless models.

*3 This is an error related to communication of remote controller (A, B) or central control system (TCC-LINK U3, U4).
Remote controller indicates E01, E02, E03, E09, E18 or no code according to situation.

Troubleshooting (Continued)

Check Code Table (Indoor Unit)

○ ON, ● Blinking, ● OFF, Alternate: Two LEDs blink alternately, Simultaneous: Two LEDs blink simultaneously

(Detected by indoor unit)

Check code	Lamp indication		Main faulty location	Description of failures	A/C operation
	Remote control	Block indication			
TCC-LINK central control and remote controller	OPERATION	TIMER	PREHEATING	Blinking	Auto reset
E03	●	●	Indoor unit - R/C communication error	No signal from remote controller (no communication with central controller system)	○
E04	●	●	Indoor unit - out door unit serial communication error	When indoor unit - out door unit serial communication is abnormal	○
E08	●	●	Duplication of indoor unit address	When same address as mine is detected	○
E10	●	●	Communication error between indoor unit MCUs	When communication between main motor microcomputers is abnormal	○
E18	●	●	Communication error between header and follower indoor units	When communication between header and follower indoor units is disabled	○
F01	○	○	Indoor unit heat exchange sensor TCJ	When open-circuit or short-circuit of TCJ is detected	○
F02	○	○	Indoor unit heat exchange sensor TC	When open-circuit or short-circuit of TC is detected	○
F10	○	○	Indoor unit room temp. sensor TA	When open-circuit or short-circuit of TA is detected	○
F29	○	○	Indoor unit other boards	Failure of EEPROM (Other errors are also detected in some cases. Auto address repeated with no other errors.)	○
L03	●	●	Duplication of indoor group header unit setting	When multiple header units exist in the group	○
L07	●	●	Group line in individual indoor unit	When there is at least one group connection indoor unit in individual indoor unit	○
L08	●	●	Indoor group address not set	When indoor group address is not set	○
L09	●	●	Indoor unit capacity not set	Indoor unit capacity is not set.	○
L20	○	○	Duplication of central control refrigerant line address	Duplicated central control refrigerant line address is set.	○
L30	○	○	External alarm input into indoor unit (interlock)	Alarm stop by external alarm input (ON80)	○
P01	●	●	Indoor unit AC fan	When indoor unit AC fan alarm is detected (fan motor thermal relay is activated.)	○
P10	●	●	Indoor unit water overflow	When float switch is turned on	○
P12	●	●	Indoor unit DC fan	When indoor unit DC fan alarm (overcurrent, locking, etc.) is detected	○
P19	○	○	Four-way valve system	When an alarm is detected during heating due to temperature drop of heat exchange sensor	○
P31	○	○	Other indoor unit errors	Follower units in the group are disabled due to alarm (E03, L03, L07, L08) of header unit	○

★: When this alarm is detected before checking group configuration and address at power on, the unit enters auto address setting mode automatically.

(Detected by remote controller)

Check code	Lamp indication		Main faulty location	Description of failures	A/C operation
	Remote control	Block indication			
Remote controller	OPERATION	TIMER	PREHEATING	Blinking	Auto reset
E01	○	○	No header R/C, R/C reception error	When signals cannot be received from indoor unit or when header R/C is not set (including two R/Cs)	○
E02	○	○	R/C transmission error	When signal transmission to indoor unit is disabled	○
E09	○	○	Duplication of header R/C	When two remote controllers are set as header by double R/C control (Header unit stops alarm, and follower continues operation.)	○

(Detected by central controller)

Check code	Lamp indication		Main faulty location	Description of failures	A/C operation
	Remote control	Block indication			
TCC-LINK central control	OPERATION	TIMER	PREHEATING	Blinking	Auto reset
C05	No indication (when R/C is used together)		Central control system transmission error	When transmission of central control signals is disabled or when there are multiple central controllers with same address (A-NET)	○
C06			Central control system reception error	When signal transmission to indoor unit is disabled	○
C12			General equipment control (F total alarm)	A device connected to general equipment control interface (for TCC-LINK/A-NET only) is abnormal.	○
P30	Depends on alarm No. above		Group follower unit error	Group follower unit is abnormal. (R/C indicates unit No. and details.)	○

Note: Check code varies in some cases depending on the unit which detects errors even if its content is the same.

Check codes detected by R/C or central controller are not always related to air conditioner operation. This table does not include check codes detected by outdoor unit or thermal storage unit.

10-2. Check Code List

Error mode detected by indoor unit				Diagnostic function		Status of air conditioner		Condition		Judgment and measures	
Wireless sensor lamp display	Timer Ready	Check code	Wired remote controller	Cause of operation	Diagnostic function	Status of air conditioner	Condition	Condition	Judgment and measures		
•	•	E03	•	No communication from remote controller (including wirelase) and communication adapters	Stop (Automatic reset)	Displayed when error is detected	1. Check cables of remote controller and communication adapters. 2. Check remote controller LCD display OFF (Disconnection) 3. Check remote controller [B7] check code				
•	•	E04	•	The serial signal is not output from outdoor unit to indoor unit. • Mismatching of inter-unit cables • Defective serial sensing circuit on outdoor P.C. board • Defective serial receiving circuit on indoor P.C. board	Stop (Automatic reset)	Displayed when error is detected	1. Outdoor unit does not completely operate. • Inter-unit cable check, correction of mismatching, case thermo operation • Outdoor P.C. board check, P.C. board cables check 2. In normal operation P.C. board (indoor receiving/Outdoor sending) check				
•	•	E06	•	Duplicated indoor unit addresses	Stop	Displayed when error is detected	1. Check whether there is modification of remote controller connection (Group/Individual) or not after power has been turned on (finish of group configuration/address check). • If group configuration and address are not normal when the power has been turned on, the mode automatically shifts to address setup mode. (Resetting of address)				
•	•	L03	•	Duplicated indoor master units	Stop	Displayed when error is detected	1. Set the indoor capacity (DN=1)				
•	•	L07	•	There is group line in individual indoor units.	Stop	Displayed when error is detected	1. Check outside devices. 2. Check indoor P.C. board.				
•	•	L08	•	Unsetting of indoor group address	Stop	Displayed when error is detected	1. Check thermal relay of fan motor. 2. Check indoor P.C. board.				
•	•	L09	•	Unset indoor capacity	Stop	Displayed when error is detected	1. Defect of drain pump 2. Clogging of drain pump 3. Check float switch. 4. Check indoor P.C. board.				
•	•	L30	•	Abnormal outside interlock input	Stop	Displayed when error is detected	1. Defective detection of position 2. Over-current protective circuit of indoor fan driving unit operates. 3. Lock of indoor fan 4. Check indoor P.C. board.				
•	•	P01	•	Fan motor thermal protection	Stop	Displayed when error is detected	1. Check 4-way valve. 2. Check indoor heat exchanger (TC/TCU) sensor. 3. Check indoor P.C. board.				
•	•	P10	•	Float switch operation • Disconnection, coming-off, defective float switch contactor of float circuit	Stop	Displayed when error is detected	1. Judge sub unit while master unit is in [E03], [L03], [L07], [L09]. 2. Check indoor P.C. board.				
•	•	P12	•	Indoor DC fan error	Stop	Displayed when error is detected	1. Check indoor heat exchanger temperature sensor (TCU). 2. Check indoor P.C. board.				
•	•	P19	•	Error in 4-way valve system • Indoor heat exchanger temperature lowered after start of heating operation.	Stop (Automatic reset)	Displayed when error is detected	1. Check indoor heat exchanger temperature sensor (TC). 2. Check indoor P.C. board.				
•	•	P31	•	Own unit stops while warning is output to other indoor units.	Stop (Sub unit) (Automatic reset)	Displayed when error is detected	1. Check indoor heat exchanger temperature sensor (TCU). 2. Check indoor P.C. board.				
•	•	F01	•	Coming-off, disconnection or short of indoor heat exchanger sensor (TCU)	Stop (Automatic reset)	Displayed when error is detected	1. Check indoor heat exchanger temperature sensor (TC). 2. Check indoor P.C. board.				
•	•	F02	•	Coming-off, disconnection or short of indoor heat exchanger sensor (TC)	Stop (Automatic reset)	Displayed when error is detected	1. Check indoor heat exchanger temperature sensor (TA). 2. Check indoor P.C. board.				
•	•	F10	•	Coming-off, disconnection or short of indoor heat exchanger sensor (TA)	Stop (Automatic reset)	Displayed when error is detected	1. Check indoor EEPROM. (including socket insertion) 2. Check indoor P.C. board.				
•	•	F29	•	Indoor EEPROM error • EEPROM access error	Stop (Automatic reset)	Displayed when error is detected	1. Check cables of remote controller. 2. Check power cables of indoor unit. 3. Check indoor P.C. board.				
•	•	E10	•	Communication error between indoor MCU • Communication error between fan driving MCU and main MCU	Stop (Automatic reset)	Displayed when error is detected	1. Check cables of remote controller. 2. Check indoor power cable. 3. Check indoor P.C. board.				
•	•	E16	•	Regular communication error between master and sub indoor units or between main and sub indoor units	Stop (Automatic reset)	Displayed when error is detected					

• : Flash, * : Go on, * : Go off

Error mode detected by outdoor unit

Operation	Wireless sensor lamp display		Wired remote controller	Diagnostic function			Judgment and measures
	Ready	Check code		Cause of operation	Status of air conditioner	Condition	
•	•	H01	•	Breakdown of compressor • Displayed when error is detected	Stop	Displayed when error is detected	1. Check power voltage. AC200V±20V 2. Overload operation of refrigerating cycle 3. Check current detection circuit at AC side.
•	•	H02	•	Compressor does not rotate. • Over-current protective circuit operates after specified time passed when compressor had been activated.	Stop	Displayed when error is detected	1. Trouble of compressor (Compressor lock, etc.) : Replace compressor. 2. Defective cabling of compressor (Phase missing) 3. Phase-missing operation of power supply (3-phase model)
•	•	H03	•	Current detection circuit error • Current value at AC side is high even during compressor-OFF • Phase of power supply is missed.	Stop	Displayed when error is detected	1. Compressor immediately stops even if restarted. : Check IPDU. 2. Phase-missing operation of power supply Check 3-phase power voltage and cables.
•	•	L29	•	Outdoor unit and other errors • Communication error between CDB and IPDU (Coming-off of connector) • Heat sink temperature error (Detection of temperature over specified value)	Stop	Displayed when error is detected	1. Check cables of CDB and IPDU. 2. Abnormal overload operation of refrigerating cycle
•	•	L31	•	Phase detection protective circuit operates. (Normal mode)	Operation continues. (Compressor stops.)	Displayed when error is detected	1. Check power phase order (Reversed phase)/phase missing. 2. Check outdoor P.C. board.
•	•	P03	•	Discharge temperature error • Discharge temperature over specified value was detected.	Stop	Displayed when error is detected	1. Check refrigerating cycle. (Gas leak) 2. Trouble of PUV 3. Check Td sensor.
•	•	P04	•	High-pressure protection error by TE sensor (Temperature over specified value was detected.)	Stop	Displayed when error is detected	1. Overload operation of refrigerating cycle 2. Check outdoor temperature sensor (TE). 3. Check outdoor CDB P.C. board.
•	•	P22	•	Outdoor DC fan error	Stop	Displayed when error is detected	1. Defective detection of position 2. Over-current protective circuit of outdoor fan driving unit operates. 3. Lock of outdoor fan 4. Check outdoor CDB P.C. board.
•	•	P26	•	Inverter over-current protective circuit operates. (For a short time) Short voltage of main circuit operates.	Stop	Displayed when error is detected	1. Inverter immediately stops even if restarted. : Compressor motor runs short 2. Check IPDU. : Cabling error
•	•	P29	•	IPDU position detection circuit error	Stop	Displayed when error is detected	1. Position detection circuit operates even if operating compressor by removing 3P connector. : Replace IPDU.
•	•	F04	•	Coming-off, disconnection or short of outdoor temperature sensor (TD)	Stop	Displayed when error is detected	1. Check outdoor temperature sensor (TD). 2. Check outdoor CDB P.C. board.
•	•	F08	•	Coming-off, disconnection or short of outdoor temperature sensor (TE/Ts)	Stop	Displayed when error is detected	1. Check outdoor temperature sensor (TE/Ts). 2. Check outdoor CDB P.C. board.
•	•	F08	•	Coming-off, disconnection or short of outdoor temperature sensor (TO)	Operation continues.	Displayed when error is detected	1. Check outdoor temperature sensor (TO). 2. Check outdoor CDB P.C. board.

For an error mode detected in outdoor unit, the fan operates because sub unit of a group operation does not communicate with the outdoor unit.

• : Flash, • : Go on, • : Go off

Error mode detected by remote controller or network adapter

• Flash, • Go on, • Go off

Wireless sensor lamp display	Ready	Check code	Diagnostic function			Judgment and measures
			Cause of operation	Status of air conditioner	Condition	
—	—	No check code is displayed. (Remote controller does not operate.)	No communication with master indoor unit. • Remote controller cable is not correctly connected. • Power of indoor unit is not turned on. • Automatic address cannot be completed.	Stop	—	Remote controller power error, Defective indoor EEPROM 1. Check remote controller inter-unit cables. 2. Check remote controller. 3. Check indoor power cables. 4. Check indoor PC board. 5. Check indoor EEPROM. (including socket insertion) : Phenomenon of automatic address repletion occurred.
•	•	E01*2	No communication with indoor master unit. • Disconnection of inter-unit cable between remote controller and master indoor unit (Detected at remote controller side)	Stop (Automatic restart) • When there is center, operation continues.	Displayed when error is detected	Signal receiving of remote controller is defective. 1. Check remote controller inter-unit cables. 2. Check remote controller. 3. Check indoor power cables. 4. Check indoor PC board.
•	•	E02	Signal sending error to indoor unit (Detected at remote controller side)	Stop (Automatic restart) • When there is center, operation continues.	Displayed when error is detected	Signal sending of remote controller is defective. 1. Check sending circuit inside of remote controller. : Replace remote controller.
•	•	E09	Multiple master remote controllers are recognized. (Detected at remote controller side)	Stop (Sub unit continues operation.)	Displayed when error is detected	1. Check there are multiple master units for 2 remote controllers (including wireless). : Master unit is one and others are sub units.
•	•	L20 Central remote controller 99	Duplicated indoor central addresses on communication of central control system (AI-NET) (Detected by central controller side)	Stop (Automatic restart)	Displayed when error is detected	1. Check address setup of central control system network. (Network adapter SW01) 2. Check network adapter PC board.
—	—	— *3 Central remote controller 99	Multiple network adapters on remote controller communication line (Detected by central controller side)	Operation continues.	Displayed when error is detected	1. Check multiple network adapters. 2. Check inter-unit cable/misabling of remote controller. : Only one network adapter on remote controller communication line
—	—	— *3 Central remote controller 97	Interruption of central control system (AI-NET) communication circuit (Detected by central controller side)	Operation continues. (According to handy remote controller)	Displayed when error is detected	1. Check communication line/misabling. Check power of indoor unit. 2. Check communication (XY terminals) 3. Check network adapter PC board. 4. Check central controller (such as central control remote controller, etc.).
—	—	— Central remote controller b7	Indoor Gr sub unit error (Detected by central controller side)	Continuation/stop (Based on a case)	Displayed when error is detected	Check the check code of corresponding unit by handy remote controller.

*2 Check code is not displayed by wired remote controller. (Usual operation of air conditioner is disabled.)

For wireless type models, E01 is notified by the display lamp.

*3 These errors are related to communication of remote controllers (A, B) and central system (AI-NET, X, Y), and [E01], [E02], [E03], [E09], or [E10] is displayed or no check code is displayed on the remote controller according to the error contents.

10-3. Error Mode Detected by LED on Outdoor P.C. Board

<SW800: LED display in bit 1, bit 2, bit 3 OFF>

- When multiple errors are detected, the latest error is displayed.
- When LED display is • (Go on), there is the main cause of trouble on the objective part of control at CDB side and the unit stops.
- When LED display is • (Flash), there is the main cause of trouble on the objective part of control at IPDU side and the unit stops.
- When case thermostat operates, the communication is interrupted on the serial circuit. If continuing the case thermostat operation, a serial communication error occurs because serial sending to the indoor unit is interrupted.

	No.	Item	Check code		LED display			
			Type A	Type B	D800 (Red)	D801 (Yellow)	D802 (Yellow)	D803 (Yellow)
CDB side	1	TE sensor error	F06	18	•	•	•	•
	2	TD sensor error	F04	19	•	•	•	•
	3	TS sensor error	F06	18	•	•	•	•
	4	TO sensor error	F08	1B	•	•	•	•
	5	Discharge temp. error	P03	1E	•	•	•	•
	6	DC outdoor fan error	P22	1A	•	•	•	•
	7	Communication error between IPDU (Abnormal stop)	L29	1C	•	•	•	•
	8	High-pressure release operation	P04	21	•	•	•	•
	9	EEPROM error	—	—	•	•	•	•
	10	Communication error between IPDU (No abnormal stop)	—	—	•	•	•	•
IPDU side	11	G-Tr short-circuit protection	P26	14	•	•	•	•
	12	Detection circuit error	P29	16	•	•	•	•
	13	Current sensor error	H03	17	•	•	•	•
	14	Phase missing detection	H03	17	•	•	•	•
	15	Comp. lock error	H02	1D	•	•	•	•
	16	Comp. breakdown	H01	1F	•	•	•	•

• •: Go on • •: Go off • •: Flash (5Hz)

<<Check code>>

The check codes are classified into Type A and Type B according to the used remote controller. Be sure to check the remote controller which you use.

Type A :

Neutral 2-cores type wired remote controller such as RBC-AMT21E, RBC-AS21E, and wireless remote controller kit such as TCB-AX21U (W)-E

Type B :

Polarized 3-cores type wired remote controller such as RBC-SR1-PE, RBC-SR2-PE, and central control remote controller such as RBC-CR64-PE