Fault Codes – R32 VRF Systems

Do Not turn off the power supply to the outdoor unit, before reading the fault codes, doing so will clear the outdoor unit's diagnostic memory.
Caution must be taken when removing the access covers, as high voltages are present.
Fault diagnosis is available at three locations within the Air Conditioning system. :-

1 Remote Controller automatically displayed. 2 Central Controller
3 Outdoor unit Rotary switches SW01/SW02/SW03 set to 1 – 1 - 1

Code	Fault Description
E01	Communication error between indoor PCB and local remote controller. Detected by remote controller, Trouble receiving communications. Likely cause indoor PCB, remote controller, incorrect wiring.
E02	Communication error between indoor PCB and local remote controller. Detected by remote controller. Trouble transmitting communications
E03	Communication error from remote controller / network adaptor / central controller. Detected by remote controller, check DN code 103, if local remote controller is connected, DN code 103 should be set at 0000, if no local remote controller is connected code should be set at 0001. Duplicated master remote controller, multiple remote controllers set as master
E04	Communication error between condenser PCB's. or between outdoor unit and indoor units. Detected. Likely cause Indoor PCB / condenser PCB / Interconnecting cable damage / transformer used to power condenser PCB, U1 / U2 network cable error.
E06	Communication error, between indoor and outdoor unit. Detected indoors, reduced number of indoor units, Trouble receiving communications, likely cause loss of power to indoor unit/s, indoor unit PCB, A&B remote controller cable condition.
E07	Communication error, between indoor and outdoor unit. Detected outdoor, Trouble transmitting communications. Likely cause, interconnecting cable, outdoor Unit PCB switch settings incorrect.
E08	Duplicated indoor address. Detected indoor. Likely cause, incorrect setting of BUS addresses when under central control.
E09	Duplicated master remote controller. Detected indoors. Likely cause two local remote controllers connected to the same A*B network.
E10	Indoor inter-MCU communication error. Detected indoor, Likely cause, replace indoor PCB.
E11	Communication error between, Application control PCB and indoor unit. Detected indoors. Likely cause, interconnecting wiring, incorrect connection.
E12	Automatic address set up error. Detected outdoor. Indoor/Outdoor automatic addressing is started whilst automatic addressing for equipment in another refrigerant. line is in progress.
E15	Indoor unit not found during automatic addressing. Detected outdoor.
E16	Combined capacity of indoor units exceeds the maximum combination allowed for the system, Detected outdoor. To many indoor units. Likely cause, SW01/02/03 outdoor, unit set at 1/1/1, if sub code displayed 00=Indoor capacity to high for system, 01=Indoor count/quantity too high for system.
E17	Communication error between indoor unit and flow selector box. Detected indoors. Likely cause, incorrect power sequence, 1, flow selector unit- 2, shut off valves – 3, indoor units – 4, outdoor unit interconnecting wiring, flow selector unit incorrect port setting for indoor unit DN codes 105, 106, 107, multi-port flow selector unit, Dip switch settings
E18	Communication error between indoor units in a group configuration. Detected indoors. Likely cause, indoor unit power loss, A&B cable error.
E19	Incorrect quantity of outdoor header units. Detected outdoor. Likely cause, no header unit or more than one header unit on the same refrigeration line.
E20	Error in automatic addressing. Detected outdoor. Likely cause, indoor units from other refrigeration line detected during indoor units automatic addressing. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed 01=multiple outdoor systems connected on U3/U4 network, miss-wiring, 02 = Indoor units from other line connected, miss-wiring.
E23	Communication error between outdoor – outdoor units, transmission. Likely cause, terminal resistance SW100 bit 2 off, turn on.

Code	Fault Description
E25	Outdoor unit, duplicated follower outdoor unit, duplicated outdoor unit addressing, manually set via DN code 0014, 0000=individual, 0001=header, 0002=follower.
E31	Communication error between IPDU /PCB in outdoor unit. Likely cause, loss of communication between PCB's, check inter-connecting cables.
F01	Indoor unit TCJ sensor error, CN102-Red, open / closed circuit, CN average resistance at 20°C – 12.5 kΩ, defective indoor PCB.
F02	Indoor unit Heat Exchanger TC2 sensor error, CN 101-Black, open / closed circuit, average resistance at 20°C – 12.5 kΩ, or defective PCB.
F03	Indoor unit Heat Exchanger TC1 sensor error, CN100-Brown, open / closed circuit, average resistance at 20°C – 12.5 kΩ, or defective PCB.
F04	Outdoor unit discharge TD1 sensor error, CN502-White, open / closed circuit, average resistance at 20°C – 63 kΩ, or defective interface PCB.
F05	Outdoor unit discharge TD2 sensor error, CN380-Black, open / closed circuit, average resistance at 20°C – 63 kΩ or defective interface PCB.
F06	Outdoor unit heat exchanger liquid TE1, TE2, TE3 sensor error, CN 381-White (TE1/TE2), CN 384-Blue (TE3) open / closed circuit, average resistance at 20°C – 12.5 kΩ, defective connection or defective interface PCB. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed 01=TE1 sensor, 02=TE2 sensor, 03=TE3 sensor.
F07	Outdoor liquid TL1, TL2, TL3 sensor error, CN378-White, (TL1/TL2/TL3), open / closed circuit, average resistance at 20°C – 12.5 kΩ, defective connection or defective interface PCB. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed, 01=TL1 sensor, 02=TL2 sensor, 03=TL3 sensor.
F08	Outdoor unit ambient TO sensor error, CN507-Yellow, open / closed circuit, average resistance at 20°C – 12.5 kΩ, defective connection or defective interface PCB.
F09	Outdoor unit heat exchanger gas TG1, TG2, TG3 sensor error, CN384-White (Tg1/Tg2), CN384-Blue (Tg3), open / closed circuit, average resistance at 20°C – 12.5 kΩ defective connection or defective interface PCB. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed, 01=Tg1 sensor, 02=Tg2 sensor, 03=Tg3 sensor.
F10	Indoor unit Room Air (Return Air) TA sensor error, CN104-Yellow, open / closed circuit, average resistance at 20°C – 12.5 kΩ, defective connection or defective PCB.
F11	Indoor unit Discharge Air TF sensor error, (Where fitted), open / closed circuit, average resistance at 20°C – 12.5 kΩ, defective connection or defective PCB.
F12	Outdoor unit suction TS1, TS2, TS3 sensor error, CN378-White (TS1/TS3), CN506-Black (TS2), open / closed circuit, average resistance at 20°C – 12.5 kΩ defective connection or defective interface PCB. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed, 01=TS1 sensor, 02=TS2 sensor, 03=TS3 sensor.
F13	Outdoor unit, temperature sensor built into Compressor PCB, (IPDU), Th open circuit/closed circuit. Likely cause, compressor error or defective inverter (IPDU) PCB. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed, 01=Compressor/Inverter PCB-1, 02=Compressor/Inverter PCB-2.
F15	Outdoor unit wiring issue between TE1, TL1. Likely cause, crossed wiring TE1- CN381-White, TL1-CN378-White, defective interface PCB.
F16	Outdoor unit wiring issue between pressure sensors, Pd / Ps. Likely cause, crossed wiring Pd -CN501-Red, Ps-CN500-White, defective interface PCB or compressor.
F23	Outdoor unit low pressure sensor Ps, output voltage is zero volts. Ps-CN500-White, Likely cause, defective Ps sensor, refrigerant leaking via SV4, refrigerant bypass from discharge to suction of 4-way valve defective 4-way valve, defective compressor, or defective interface PCB.
F24	Outdoor unit high pressure sensor Pd, output voltage is zero volts. Pd-CN501-Red, Likely cause, Pd sensor or defective interface PCB.
F29	Indoor unit communication error, likely cause defective indoor PCB.
F30	Communication error between Indoor unit PCB and Occupancy Sensor. Likely cause, interconnection between indoor PCB to Occupancy sensor, defective Occupancy sensor or defective indoor PCB,
F31	Outdoor unit EEPROM error. Likely cause, incorrect power supply, electrical noise, defective interface PCB.
H01	Outdoor unit, overcurrent detected on inverter compressor. Likely cause, incorrect power supply, electrical noise, defective compressor, defective inverter (IPDU) PCB. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed, 01=Compressor-1, 02=Compressor-2.
H02	Outdoor unit, inverter compressor mechanical lock-up detected. Likely cause, defective compressor, defective inverter (IPDU) PCB. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed, 01=Compressor-1, 02=Compressor-2.
H03	Outdoor unit, over current detected while inverter compressors off, Likely cause, Wiring issue between inverter (IPDU) PCB and Compressor, W-Black=CN203, V-White=CN202, U-Red=CN201, defective Inverter (IPDU) PCB. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed, 01=Compressor-1, 02=Compressor-2.

Code	Fault Description
H05	Outdoor unit discharge sensor TD1-CN502-White, wiring issue. Wiring or location issue or detached from pipe work. Likely cause, defective TD1 sensor or defective interface PCB
H06	Outdoor unit low pressure Ps-CN500-White, activation, abnormally low pressure detected. Likely cause, service valves closed, defective Ps sensor, defective SV4 circuit, miss-wiring indoor to outdoor U1/U2, defective indoor/outdoor fan, indoor/outdoor clogged PMV, indoor/outdoor heat exchanger clogged, refrigerant shortage.
H07	Outdoor unit low oil level, temperature, sensor of oil level detection TK1, TK2 detected abnormally low oil level. Likely cause, miss-wiring between TK1-CN502-White and TK2-CN380-Black, defective TK1/TK2 sensor, refrigerant/oil leak, defect in SV3D, clogging of oil return circuit.
H08	Outdoor unit oil level TK1–CN502-White, TK2-CN380-Black, sensor error, open / closed circuit, average resistance at 20°C – 63 kΩ. Likely cause defective sensor or defective interface PCB.
H15	Outdoor unit discharge sensor TD2 – CN380-Black, wiring issue. Likely cause, wiring or location issue or detached from pipe work, defective interface PCB.
H16	Outdoor unit oil level detection circuit error, no temperature change TK1-CN502-White, TK2-CN380-Black, despite compressor starting. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed, 01=TK1 sensor, 02=TK2 sensor.
H17	Outdoor unit, inverter compressor is in step-out condition. Refer to fault description H01 for diagnostics.
H28	Outdoor unit, error with inverter compressor. Likely cause, wiring issue between compressor and inverter (IPDU) PCB, defective compressor. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed, 01=Compressor-1, 02=Compressor-2.
JO1	Communication error between indoor unit/s and flow selector box/s – no communication from indoor unit/s, Likely cause, wiring issue between flow selector unit and indoor unit, incorrect setting of DN codes, FE-flow selector/Shut-off unit address, 105- port address – code is set at a higher number than ports on multi-port flow selector unit (DN105-set at 5 on 4 port multi-port unit), 106-combining branch, defective indoor PCB.
JO2	Communication error between control PCBs in multiport flow selector box. Likely cause, SW01/SW03 incorrectly set, defective flow selector PCB.
JO3	Duplicated flow selector boxes or shut off valve units in one refrigeration circuit.
J31	Energisation time of the Refrigerant leak detector has reached its useful life. Estimated service life of leak detector is 10 years.
L02	Indoor unit, local remote controller, or flow selector unit incompatible with A2L refrigerant / TU2C link. Indoor unit/local remote controller/flow selector unit not compatible with R32 refrigerant, replace incompatible item.
L03	Duplicated indoor group header unit, there are more than one header unit in a group. Likely cause, DN code 14 incorrectly configured, 0000= single unit, 0001 header unit in group, 0002 follower unit in group – more than one indoor unit is set as DN14 - 0001
L04	Outdoor unit duplicated refrigerant address. Likely cause, Sw101 and SW102 not set, factory setting refrigerant line address is set as 1, multiple outdoor units connected to the same central remote or BMS interface require a unique refrigerant line address.
L05	Indoor unit duplicated priority indoor unit displayed on priority unit; more than one indoor unit has been set-up as priority unit. Likely cause, DN code 04 incorrect, only one indoor unit can be configured as a priority unit, DN code 04, 00001 priority unit, 0000 not priority unit.
L06	Indoor unit duplicated priority indoor unit displayed on indoor unit other than priority unit; more than one indoor unit has been set-up as priority unit, Likely cause DN code 04 incorrect, only one indoor unit can be configured as a priority unit, DN code 04, 00001 priority unit, 0000 not priority unit.
L07	Stand-alone indoor unit connected to group controller cable. Detected indoors, group incorrectly configured, DN code 14, 0000-Single unit, 0001- Group Header, 0002-Group follower, only one group header is allowed.
L08	Indoor group address not set. Likely cause, indoor units no power, power down indoor and outdoor units, re-apply power Indoor units first outdoor unit second. This fault code is displayed on local remotes when power is first applied on a new installation, (System address not completed.)
L09	Indoor unit capacity not set. Likely cause, Indoor unit PCB replaced and DN code 11, unit capacity not set, defective indoor PCB.
L10	Outdoor unit capacity no set. Likely cause, Outdoor unit main interface PCB replaced and O. DN code 003 set at default 0000. SUG0801= 0001, SUG1001=0002, SUG1201=0003, SUG1401=0004, SUG1601=0005, SUG1801=0006, SUG2001=0007, SUG2201=0008, SUG2401=0009
L11	Indoor flow selector unit or shut off valve unit installation error. Outdoor unit is set as Heat Pump there is no connection to flow selector unit and indoor unit is NOT set to Cooling Only.

Code	Fault Description
L13	Indoor NO indoor unit is connected to port 1 of multi-port flow selector unit, multiple remote controller groups are set to one port of the flow selector unit with different port addresses are set for one of the groups.
L14	Indoor Safety measures setting is set to Pump Down, or individual shut off operation and flow selector unit or shut off valve unit is not connected, safety measure setting is set to individual shut off operation and connected to flow selector unit multi-port.
L17	Outdoor unit, Incompatible combination of outdoor units, SHRM-A can only be used in a single system format, i.e. Not modulised.
L20	Duplicated central controller address. Detected indoors, Likely cause, incorrectly set network address DN Code 03 (Unique address per group between 1 to 64).
L23	Outdoor unit Switch setting incorrect when Hot Water Module is connected. Likely cause, SW103 bit 4 interface PCB set to OFF, set to ON when HWM installed.
L24	Indoor flow selection unit incorrect setting, duplicated priority indoor unit operation mode.
L28	Outdoor unit Too many outdoor units connected. SHRM-A can only be used in a single system format i.e. Not modulised.
L29	Outdoor unit, trouble in quantity of outdoor PCBs, insufficient number of PCBs in inverter box. Likely cause, Incorrect model selected via DN Code 003 refer to description for L10 error, error in communications between compressor, fan PCB, and main interface PCB. Defective compressor, Fan inverter PCB, Interface PCB.
L30	Auxiliary interlock in indoor unit. Detected indoor. Likely cause CN80 indoor unit open circuit.
P01	Indoor AC fan error - Thermal relay of indoor unit AC fan operated. Likely cause, Incorrect wiring, defective fan motor, defective indoor PCB.
P03	Outdoor unit, abnormally high discharge temperature TD1 has been detected. Likely cause, Service valves at outdoor unit not opened, outdoor TD1 error, outdoor PMV error, PMV5 and PMV6 incorrectly connected, PMV5-CN345-Yellow, PMV6-CN346-Black, refrigerant shortage, 4-way valve error, SV4 error.
P04	Outdoor unit, abnormally high pressure detected Pd over 35bar. Likely cause, Outdoor service valves closed, high pressure switch error, outdoor fan error, PMV's incorrectly connected, PMV1-CN300-White, PMV2-CN301-White, PMV3-CN302-Blue, PMV4-CN303-Red, refrigerant over-charge.
P05	Outdoor, power error, inverter DC voltage too high/low, open phase, miswiring, reverse connection of L1 and N, when power turned on. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed,1=Compressor-1, 2=Compressor-2, 00=Power supply, 01=Open phase, 02=Power supply mis wired.
P07	Outdoor, heat sink over temperature over 115ºC, inverter (IPDU) board overheating, no thermal paste, missing fixing screws, outdoor liquid sensor TL2 detects abnormally low temperature.
P10	Indoor unit float switch activated. Likely cause, Float switch open circuit, float switch contaminated, drain pump error, condensate line clogged (not draining), defective indoor PCB
P11	Outdoor unit, heat exchanger freezing, remaining frost on heat exchanger detected repeatedly. Likely cause, TE1/TE2/TE3 sensor error, Pd/Ps sensor error, TS1 error, 4-way valve error, PMV1/PMV2/PMV3 error, short circuit of discharge air to air inlet, defective interface PCB.
P12	Indoor DC fan error – Overcurrent or lock-up detected. Likely cause, Fan motor error, defective indoor PCB.
P13	Outdoor unit, liquid backflow detected. Likely cause, PMV1-CN300-White/PMV3-CN302-Blue/PMV4-CN303-Red crossed wiring, Pd-CN501-Red/Ps-CN500-White cross wiring, refrigerant leakage at check valve on main discharge line, defective outdoor interface PCB.
P14	Outdoor unit, service valves closed during test run.
P15	System, outdoor suction temperature TS1 detects sustained and repeated high temperature. Likely cause, Outdoor service valves closed, outdoor PMV error, TS1/TD1 error, refrigerant shortage, or clogged refrigeration circuit, 4-way valve error, SV4 valve circuit error. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed, 01=TS1, 02=TD1.
P16	System, injection circuit issues, discharge temperature of one compressor very high whilst discharge temperature of other compressor is very low, Incorrect connection of PMV5 and PMV6 (Crossed). SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed,01=PMV5, 02=PMV6, 03=PMV5/6 cross wiring. Sub-code: 01-1. PMV5 failure (open state),01-2. PMV5 coil failure or coil wiring disconnection,01-3. SV3F failure (open state), PMV5 failure Sub-code: 02-1, PMV6 failure (open state),02,2, PMV6 coil failure or coil wiring disconnection 02.3. SV3F failure (open state) Sub-code: 03-1. PMV5 coil and PMV6 coil mix-up, 03-2. PMV5 or PMV6 failure, 03-3. PMV5 coil or PMV6 coil failure, 03-4. SV3F failure (open state) 03-5. SV7F failure (close state)

Code	Fault Description
P17	Outdoor unit, discharge TD2 sensor detects abnormally high temperatures., over 115ºC. Likely cause, Outdoor unit service valves closed, outdoor PMV error, TD2 sensor error, refrigerant shortage, or clogged refrigeration circuit, 4-way valve error, SV4 valve circuit leakage mis installed, PMV5/PMV5 crossed.
P19	Outdoor unit, 4-way valve error, abnormality in refrigeration circuit detected during heating operation, likely cause, 4-way valve 1 or 2 cannot be switched, TS1/TE1 sensor error, Pd/Ps sensor error, TE1/TL1 crossed.
P20	System, high pressure protection Pd sensor detects high pressure, over 35bar. Likely cause, Outdoor unit service valves closed, PD sensor error, indoor/outdoor fan error, indoor/outdoor heat exchanger clogged, SV4 valve circuit error, defective outdoor interface PCB, refrigerant over-charge.
P22	Outdoor unit, fan issue. PCB, motor, mechanical issue with blade. Likely cause, Fan stalled (high wind), fan motor error, defective fan inverter PCB.
P25	Outdoor unit, inverter PCB (IPDU), short circuit. Likely cause, missing thermal paste, missing fixing screws etc. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed, 01=Compressor -1, 02=Compressor -2.
P26	Outdoor unit, inverter PCB (IPDU) over current detected, open phase detected. Likely cause, Wiring between inverter PCB (IPDU) and compressor, W-Black=CN203, V-White=CN202, U-Red=CN201 SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed, 01=Compressor-1, 02=Compressor-2
P29	Outdoor unit, inverter compressor incorrect position at start-up. Likely cause, Wiring between inverter PCB (IPDU) and compressor, W-Black-CN203, V-White-CN202, U-Red-CN201. SW01/02/03 outdoor unit set at 1/1/1, if sub code displayed, 01=Compressor-1, 02=Compressor-2

Full detailed description of fault codes can be found in the respective service manuals, copies are available for download via, Cool Designs web site, **www.cdlweb.info**

Error Detected by - Central Controller

Check Code				Wireless Remote				Check Code Name	Judging Device
Central Control Device	Outdoor 7 Segment Display		AI Central Controller	Sensor Block Display					
		Auxiliary Code		O	T	R	F		
C05	---	---	---	---				Sending error in TCC-Link central control device	TCC-LINK
C06	---	---	---	---				Receiving error in TCC-Link central control device	TCC-LINK
C12	---	---	---	---				Batch alarm of general-purpose equipment control interface	HA control interface. I/F
P30	---	Differs according to error contents of unit with occurrence of alarm						Group control follower unit error	TCC-LINK
		---	(L20 is displayed)					Duplicated central control addresses	

Black Pear Error Code Cross Reference.					
Black Pear Error Code	Toshiba Error Code	Description	Black Pear Error Code	Toshiba Error Code	Description
1005	C05	Sending error in TCC-Link central control device	3001	F01	Indoor TCCJ sensor error
1006	C06	Receiving error in TCC-Link central control device	3002	F02	Indoor TC2 sensor error
1012	C12	Batch alarm of general-purpose equipment control interface	3003	F03	Indoor TC1 sensor error
			3004	F04	TD1 sensor error
2001	E01	Communication error between indoor and remote controller (Detected at remote controller side)	3005	F05	TD2 sensor error
			3006	F06	TE1 sensor error
2003	E03	Communication error between indoor and remote controller (Detected at indoor side)	3007	F07	TL sensor error
			3008	F08	TO sensor error
2004	E04	Communication circuit error between indoor / outdoor (Detected at indoor side)	3010	F10	TA sensor error
			3012	F12	TS1 sensor error
2006	E06	Decrease of number of indoor units.	3013	F13	TH sensor error
2007	E07	Communication circuit error between indoor / outdoor (Detected at outdoor side)	3015	F15	Outdoor temperature sensor misconnection (TE1-TL)
			3016	F16	Outdoor pressure sensor misconnection (Pd – Ps)
2008	E08	Duplicated indoor addresses	3023	F23	Ps sensor error
2009	E09	Duplicated master remote controllers	3024	F24	Pd sensor error
2010	E10	Communication error between indoor Printed Circuit Boards	3029	F29	Indoor other error
2012	E12	Automatic address start error	3031	F31	Outdoor EEPROM error
2015	E15	No indoor automatic address			
2016	E16	Over capacity / Number of connected indoor units	4001	H01	Compressors break down
2018	E18	Communication error between indoor header and follower units.	4002	H02	Magnetic switch error / Overcurrent relay operation / Compressor error (lock)
2019	E19	Outdoor header unit's quantity error			
2020	E20	Other line connected during automatic address	4003	H03	Current detection circuit error
2023	E23	Sending error in communication between outdoor units	4004	H04	Compressor 1 case thermal operation
2025	E25	Duplicated follower outdoor address	4006	H06	Low pressure protection operation
2026	E26	Decrease of number of connected outdoor units	4007	H07	Low oil level protection
2028	E28	Follower outdoor unit error	4008	H08	Oil level temperature sensor error
2031	E31	IPDU Communication error	4014	H14	Compressor 2 case thermal operation
			4016	H16	Oil level detection circuit error / Magnetic switch error / Overcurrent relay error

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Black Pear Error Code Cross Reference.					
Black Pear Error Code	**Toshiba Error Code**	**Description**	**Black Pear Error Code**	**Toshiba Error Code**	**Description**
6003	L03	Duplicated indoor header units	7001	P01	Indoor fan motor error
6004	L04	Duplicated outdoor line address	7003	P03	Discharge temperature TD1 error
6005	L05	Duplicated indoor units with priority. (Displayed in indoor unit with priority)	7004	P04	High-pressure switch detection error
			7005	P05	Phase-missing detection / Phase order error
6006	L06	Duplicated indoor units with priority. (Displayed in unit other than indoor unity with priority)	7007	P07	Heat-sink overheat error
			7010	P10	Indoor overflow error
6007	L07	Group line in individual indoor unit	7012	P12	Indoor fan motor error
6008	L08	Indoor group/Address unset	7013	P13	Outdoor liquid back detection error
6009	L09	Indoor capacity unset	7015	P15	Gas leak detection
6010	L10	Outdoor capacity unset	7017	P17	Discharge temperature TD2 error
6020	L20	Duplicated central control addresses	7019	P19	4-way valve inverse error
6028	L28	Maximum number of outdoor units exceeded	7020	P20	High pressure inverse error
6029	L29	Number of IPDU's error	7022	P22	Outdoor fan IPDU error
6030	L30	Auxiliary interlock in indoor unit	7026	P26	Giant Transistor short circuit protection error
6031	L31	IC error	7029	7031	Compressor position detection circuit error
			7030	P30	Follower indoor unit error (Group error)
			7031	P31	Follower indoor unit error (Group error)

Special Black Pear Error Codes	
6999	Unit does not exist on the system
8000	No error detected
255	No error detected.

Notes