

AIR CONDITIONING

Fault Codes – RAS Series

Do Not turn off the power supply before reading the fault codes, doing so will clear the diagnostic memory. Caution must be taken when removing the access covers as high voltages are present.

Fault diagnosis is available by pressing the check button on the rear of the remote controller.

Note: Fault diagnosis for these systems is <u>only</u> possible when using infrared remote controller type WC-C2YE or WH-C2YE (which may be ordered under part number 43069666)

Code		Code	Fault	System Status	Check
00	Indoor Fault	0C	TA Sensor open circuit	No cooling operation (Heating operation continuously – heat pumps)	Sensor Resistance $20^{\circ}\text{C} = 12.5\text{k}\Omega$, $25^{\circ}\text{C} = 10\text{k}\Omega$
			TA Sensor short circuit	No heating operation – heat pumps (Cooling operation continuously)	Sensor Resistance $20^{\circ}\text{C} = 12.5\text{k}\Omega$, $25^{\circ}\text{C} = 10\text{k}\Omega$
		0d	TC Sensor open circuit	No cooling operation (Heating operation continuously – heat pumps)	Sensor Resistance $20^{\circ}\text{C} = 12.5\text{k}\Omega$, $25^{\circ}\text{C} = 10\text{k}\Omega$
			TC Sensor short circuit	No heating operation – heat pumps (Cooling operation continuously)	Sensor Resistance $20^{\circ}\text{C} = 12.5\text{k}\Omega$, $25^{\circ}\text{C} = 10\text{k}\Omega$
		11	Fan Motor	System Stop	Seized motor Thermal fuse open circuit
		12	PCB Fault	System Stop	Replace PCB
01	Inter. Cable	04	Inter. Cable	System Stop	Cable / CT termination and thermal fuse
03	Outdoor Fault	09	No change in temp. of indoor unit	Indoor unit operates	Compressor running not pumping / klixon tripped. For cross wiring.
			Frost Condition	Indoor fan low speed, no outdoor unit operation	Gas charge / pipe blockage. Indoor air flow TC Sensor For cross wiring
		1d	Compressor	System Stop	Compressor windings. Current consumption.

The LEDs on the indoor unit will also flash depending on the type of fault :-

Operation display flashing at 1Hz	Restoration of power after a power cut	N/A
Operation display flashing at 5Hz	TA Sensor fault	0C
Operation display flashing at 5Hz	TC Sensor fault	0d
Operation display flashing at 5Hz	Fan motor fault	11
Operation display flashing at 5Hz	PCB fault	12
Operation and timer display flashing at 5Hz	Interconnecting cable	04
Operation, timer and pre-heat display flashing at 5Hz	No temp change or frost condition	09
Operation, timer and pre-heat display flashing at 5Hz	Compressor	1d

24hr Toshiba Technical Help Line - 0870 8430333

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AIR CONDITIONING

Fault Codes – RAV Series

Do Not turn off the power supply before reading the fault codes, doing so may clear the diagnostic memory. Caution must be taken when removing the access covers, as high voltages are present.

Fault diagnosis is available by pressing the check button on the remote controller.

Note: The first number displayed is a code for the number of compressor starts the indoor unit has

requested. This number is displayed using the hexadecimal format.

Numbers displayed after the start number are fault codes.

OC T	'A Sensor open	System Status No cooling operation (Heating operation	Check
ci	71 Delisor open	INO COOLING OPERATION (HEATING OPERATION	Sensor Resistance
	ircuit	continuously – heat pumps)	$20^{\circ}\text{C} = 12.5\text{k}\Omega, \ 25^{\circ}\text{C} = 10\text{k}\Omega$
	'A Sensor short	No heating operation – heat pumps	Sensor Resistance
-	ircuit	(Cooling operation continuously)	$20^{\circ}\text{C} = 12.5\text{k}\Omega, \ 25^{\circ}\text{C} = 10\text{k}\Omega$
	C Sensor open	Indoor fan stays off in the heating mode	Sensor Resistance
	ircuit	muoor run sunys on m ure neuring moue	$20^{\circ}\text{C} = 12.5\text{k}\Omega, \ 25^{\circ}\text{C} = 10\text{k}\Omega$
	C Sensor short	Outdoor unit simulates high temperature	Sensor Resistance
	ircuit	release continually	$20^{\circ}\text{C} = 12.5\text{k}\Omega$, $25^{\circ}\text{C} = 10\text{k}\Omega$
04 N	To communication	Indoor unit operates – outdoor unit does	Interconnecting cables / isolator
О	Outdoor to Indoor	not	Outdoor transformer (240/12vac)
			Printed Circuit Board
08 R	leverse change	Cooling o/p in Heat mode or	Operation of 4 way valve, energised
	emp.	Heating o/p in Cool mode	for heating / TC sensor
	To change in temp.	Indoor unit operates	Compressor running not pumping /
	f indoor unit		klixon tripped. / For cross wiring.
F	rost Condition	Indoor fan low speed, no outdoor unit	Gas charge / pipe blockage.
		operation	Indoor air flow
			TC Sensor / For cross wiring
0b Ir	ndoor water level	Indoor unit operates – outdoor unit does	Lift pump operation. Condensate
		not	drain for blockage. Float switch
07	AN com. fault	0 11 1	operation – break on rise.
97 L	AN com. fault	One zone may not be operating	X&Y terminations and wiring
98 D	Ouplicated zone	Dupl. Addresses Stop	continuity. Indoor PCB SW02 address set up
	ddress	Dupi. Addresses Stop	SW02 address set up
	lo communication	System stop.	Interconnecting cables.
	ndoor to Rem. Con.	System stop.	Indoor is set up as a master.
	ildoor to recini com		Only one master in a group.
18 T	E Sensor open	System stop.	Sensor Resistance
	ircuit	, ,	$20^{\circ}\text{C} = 12.5\text{k}\Omega, \ 25^{\circ}\text{C} = 10\text{k}\Omega$
Т	E Sensor short	System stop.	Sensor Resistance
ci	ircuit		$20^{\circ}\text{C} = 12.5\text{k}\Omega, \ 25^{\circ}\text{C} = 10\text{k}\Omega$
19 T	L or TD Sensor	System stop.	Sensor Resistance
O	pen circuit		TL 20°C = 12.5 kΩ, 25 °C = 10 kΩ
			TD 23° C = $53k\Omega$
T	L or TD Sensor	System stop.	Sensor Resistance
sl	hort circuit		TL 20°C = 12.5 kΩ, 25 °C = 10 kΩ
			TD 23° C = $53k\Omega$
	ow Pressure Trip	System stop.	Change Outdoor PCB (No LP Swth)
21 H	ligh Pressure Trip	System stop.	Gas Charge – quantity & quality
			Pipe blockages
			Air flows
	ligh Discharge	System stop.	Gas Charge – quantity & quality
Т	emperature		TE sensor

Indoor unit air flow

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AIRCONDITIONING

Remote Controller

Fault Codes – 2 Pipe Super Multi

Outdoor Unit

Do Not turn off the power supply before reading the fault codes, doing so will clear the diagnostic memory. Caution must be taken when removing the access covers, as high voltages are present.

Multi Controller

Fault diagnosis is available at three locations within the Air Conditioning system. :-

- 1. Remote Controller press the check button
- 2. Multi Controller rotate the display switch to position 1
- 3. Outdoor Unit see following chart

<u> </u>	kemote Controller			Muiu Controller		_	Outdoor Unit
	Press check	L.		Switch position 1	H		Switch position 0
04	No Communication	→	04	No Communication	→		No Communication
	Interface to Inverter	L_I		Interface to Inverter		LED 6 on	Interface to Inverter
04	No Communication	→	04	No communication			
	Multi C. to Outdoor			Multi C. to Outdoor]		
04	No Communication						
	Indoor to Multi C.						
0b	ID water level						
0C	TA Sensor Fault		88	M/C doesn't recognise		Dist	olay Switch set to 8
				outdoor capacity			(If lit)
0d	TC Sensor Fault		80	Th(A) Sensor Fault		LED 1	Th(A) Sensor Fault
08	Reverse change		81	Th(B) Sensor Fault	+	LED 2	Th(B) Sensor Fault
	temp						<u> </u>
09	Frost or no temp		82	Th(C) Sensor Fault	+	LED 3	Th(C) Sensor Fault
	change						<u> </u>
99	No Communication		83	Th(D) Sensor Fault	+	LED 4	Th(D) Sensor Fault
	Indoor to Rem Con						
			84	Th(X) Sensor Fault	+	LED 5	Th(X) Sensor Fault
15	Refer to Multi Con	7	0b	M/C water level	+		M/C water level
	Preheat/Defrost	→	89	ID codes set too high	+	LED 6	ID codes set too high
	Flash						
				ID codes set to zero		LED 7	M/C 1 Sensor Fault
						LED 8	M/C 2 Sensor Fault
					ĺ	Dist	olay Switch set to 3
							(If lit)
1C	Refer to Outdoor	→	1C	Refer to Outdoor	→	LED 1	ThD1 Sensor Fault
						LED 2	ThD2 Sensor Fault
						LED 3	ThS Sensor Fault
					ĺ	LED 4	HP Trip, by sensor
					İ	LED 5	Pd Sensor Fault
					ĺ	LED 6	Discharge Pipe >130°C
					İ	LED 7	Suction Pipe > 40°C
					İ	LED 8	Low Pressure Trip
					İ		B SW01 set to Off/Off
14	Refer to Outdoor	→	14	Refer to Outdoor	→		Low Inverter Voltage
1d	Refer to Outdoor	→	1d	Refer to Outdoor	→	0#00	High Inverter dc Current
1F	Refer to Outdoor	→	1F	Refer to Outdoor	→	00#0	High Inverter ac Current
18	Refer to Outdoor	→	18	Refer to Outdoor	→		ThE Sensor Fault
21	Refer to Outdoor	→	21	Refer to Outdoor	→	000#	Inverter HP Trip
							Inv. Comp. overheat
	1			<u> </u>			r

*****=LED Flashing O=LED Lit



Outdoor Unit

Switch positions 2 & 0

No Communication Interface to

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AIR CONDITIONING

Remote Controller

Press check

Fault Codes – 3 Pipe Super Multi

→ 04

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Multi Controller

Switch position 1

Fault diagnosis is available at three locations within the Air Conditioning system. :-

1. Remote Controller - press the check button

No Communication → 04 No Communication

- 2. Multi Controller rotate the display switch to position 1
- 3. Outdoor Unit see following chart

	Intenfoce to Inventor			Interface to Inverter			
0.4	Interface to Inverter	→	0.4				Inverter
04	No Communication Multi C. to Outdoor	7	04	No communication			
04	No Communication			Multi C. to Outdoor	j		
04	Indoor to Multi C.						
0b	ID water level	-					
ов 0С	TA Sensor Fault	1	88	M/C doesn't recognise	1		
UC	1A Sensor Faunt		00	outdoor capacity			
0 d	TC Sensor Fault		80	Th(A) Sensor Fault	+	80	Th(A) Sensor Fault
08	Reverse change	1	81	Th(B) Sensor Fault	÷	81	Th(B) Sensor Fault
00	temp		01	Th(B) Bensor Faur	`	01	Th(b) Sensor Fault
)9	Frost or no temp	1	82	Th(C) Sensor Fault	-	82	Th(C) Sensor Fault
,,	change		02	In(c) bensor I wan		02	Th(e) sensor runn
99	No Communication	1	83	Th(D) Sensor Fault	+	83	Th(D) Sensor Fault
	Indoor to Rem Con			, ,			
	•	_	84	Th(X) Sensor Fault	+	84	Th(X) Sensor Fault
15	Refer to Multi Con	7	0b	M/C water level	←	0b	M/C water level
13							
13	Preheat/Defrost	→	89	ID codes set too high	+	89	ID codes set too high
13				ID codes set too high	+	89	ID codes set too high
13	Preheat/Defrost			ID codes set too high ID codes set to zero	+	89	ID codes set too high
	Preheat/Defrost			Ü	+	89	ID codes set too high
	Preheat/Defrost		89	Ü	→	A0	ID codes set too high ThD1 Sensor Fault
	Preheat/Defrost Flash	→	89	ID codes set to zero	→	A0 A1	
	Preheat/Defrost Flash	→	89	ID codes set to zero	→ →	A0 A1	ThD1 Sensor Fault
	Preheat/Defrost Flash	→	89	ID codes set to zero	→ → →	A0 A1	ThD1 Sensor Fault ThD2 Sensor Fault
	Preheat/Defrost Flash	→	89	ID codes set to zero	→ →	A0 A1 A2	ThD1 Sensor Fault ThD2 Sensor Fault ThS Sensor Fault
	Preheat/Defrost Flash	→	89	ID codes set to zero	→ → →	A0 A1 A2 A4	ThD1 Sensor Fault ThD2 Sensor Fault ThS Sensor Fault ThO Sensor Fault
	Preheat/Defrost Flash	→	89	ID codes set to zero	→ → → →	A0 A1 A2 A4 A5	ThD1 Sensor Fault ThD2 Sensor Fault ThS Sensor Fault ThO Sensor Fault ThE Sensor Fault
	Preheat/Defrost Flash	→	89	ID codes set to zero	→ → → →	A0 A1 A2 A4 A5 A6	ThD1 Sensor Fault ThD2 Sensor Fault ThS Sensor Fault ThO Sensor Fault ThE Sensor Fault Discharge Pipe >130°C
	Preheat/Defrost Flash	→	89	ID codes set to zero	+ + + + + + + + + + + + + + + + + + +	A0 A1 A2 A4 A5 A6 A7	ThD1 Sensor Fault ThD2 Sensor Fault ThS Sensor Fault ThO Sensor Fault ThE Sensor Fault Discharge Pipe >130°C Suction Pipe > 40°C
1C	Preheat/Defrost Flash	→	89	ID codes set to zero	> + + + + + + + + + + + + + + + + + + +	A0 A1 A2 A4 A5 A6 A7 AA	ThD1 Sensor Fault ThD2 Sensor Fault ThS Sensor Fault ThO Sensor Fault ThE Sensor Fault Discharge Pipe >130°C Suction Pipe > 40°C Pressure Sensor Fault
1C	Preheat/Defrost Flash Refer to Outdoor	→ → →	1C	ID codes set to zero Refer to Outdoor	+ + + + + + + + + + + + + + + + + + +	A0 A1 A2 A4 A5 A6 A7 AA AE	ThD1 Sensor Fault ThD2 Sensor Fault ThS Sensor Fault ThO Sensor Fault ThE Sensor Fault Discharge Pipe >130°C Suction Pipe > 40°C Pressure Sensor Fault Low Pressure Trip
1C 14 1d	Preheat/Defrost Flash Refer to Outdoor Refer to Outdoor	→ → → →	1C	ID codes set to zero Refer to Outdoor Refer to Outdoor	+ + + + + + + + + + + + + + + + + + +	A0 A1 A2 A4 A5 A6 A7 AA AE	ThD1 Sensor Fault ThD2 Sensor Fault ThS Sensor Fault ThO Sensor Fault ThO Sensor Fault ThE Sensor Fault Discharge Pipe >130°C Suction Pipe > 40°C Pressure Sensor Fault Low Pressure Trip Low Inverter Voltage High Inverter dc Current High Inverter ac Current
1C 14 1d 1F	Preheat/Defrost Flash Refer to Outdoor Refer to Outdoor Refer to Outdoor	→ → →	1C 1C 14 1d	Refer to Outdoor Refer to Outdoor Refer to Outdoor Refer to Outdoor	+ + + + + + + + + + + + + + + + + + +	A0 A1 A2 A4 A5 A6 A7 AA AE 14	ThD1 Sensor Fault ThD2 Sensor Fault ThS Sensor Fault ThO Sensor Fault ThE Sensor Fault Discharge Pipe >130°C Suction Pipe > 40°C Pressure Sensor Fault Low Pressure Trip Low Inverter Voltage High Inverter dc Current
1C 14 1d 1F	Preheat/Defrost Flash Refer to Outdoor Refer to Outdoor Refer to Outdoor Refer to Outdoor Refer to Outdoor	→ → → →	1C 14 14 16 1F	Refer to Outdoor Refer to Outdoor Refer to Outdoor Refer to Outdoor Refer to Outdoor	+ + + + + + + + + + + + + + + + + + + 	A0 A1 A2 A4 A5 A6 A7 AA AE 14 1d	ThD1 Sensor Fault ThD2 Sensor Fault ThS Sensor Fault ThO Sensor Fault ThO Sensor Fault ThE Sensor Fault Discharge Pipe >130°C Suction Pipe > 40°C Pressure Sensor Fault Low Pressure Trip Low Inverter Voltage High Inverter dc Current High Inverter ac Current Inverter HP Trip Inv. Comp. overheat
1C 1d 1d 1d 1F 21	Preheat/Defrost Flash Refer to Outdoor Refer to Outdoor Refer to Outdoor Refer to Outdoor Refer to Outdoor	→ → → →	1C 14 14 16 1F	Refer to Outdoor Refer to Outdoor Refer to Outdoor Refer to Outdoor Refer to Outdoor	+ + + + + + + + + + + + + + + + + + +	A0 A1 A2 A4 A5 A6 A7 AA AE 14 1d	ThD1 Sensor Fault ThD2 Sensor Fault ThS Sensor Fault ThS Sensor Fault ThO Sensor Fault ThE Sensor Fault Discharge Pipe >130°C Suction Pipe > 40°C Pressure Sensor Fault Low Pressure Trip Low Inverter Voltage High Inverter dc Current High Inverter ac Current Inverter HP Trip

overheat

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