Cool Designs Ltd

Air Conditioning Design & Distribution

Pocket Quick Reference Guide On the TOSHIBA

Compact Simple Wired Remote Controller

RBC-ASC11E

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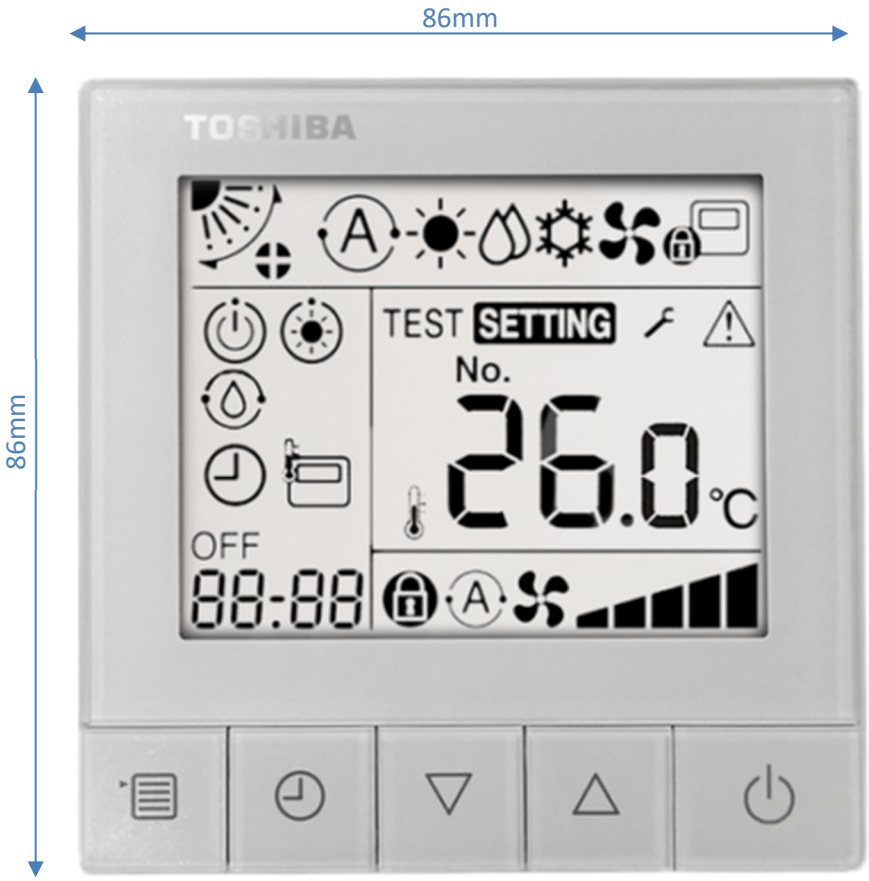
Toshiba air conditioning's
Latest addition to their wired remote controller portfolio.



The RBC-ASC11E.

A small, 86 x 86 x 16mm wired remote controller,
With simple control keys, (5).
Large backlite LCD display.
Fault Diagnostics.
Monitor Function.
DN Code access.
Off Timer.
Room Temperature Sensor.

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Buttons.

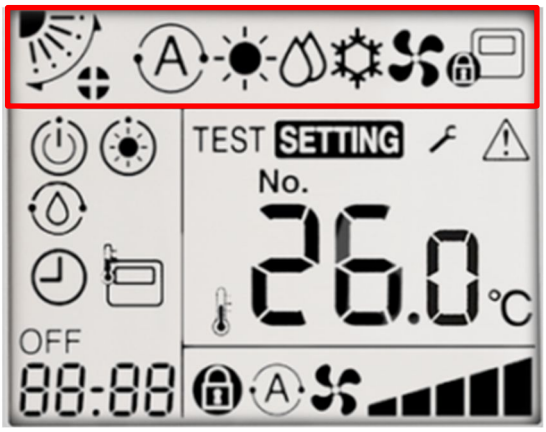
Menu.

Timer.

Up/ Down.

Power Button, illuminated when system is ON

Blinks when a fault is detected or when a protection device activates.



Display, Top line.

Louver position.

Automatic Mode.

Heat Mode.

Dry Mode.

Cool Mode.

Fan Only Mode.

Central Control Indicator.

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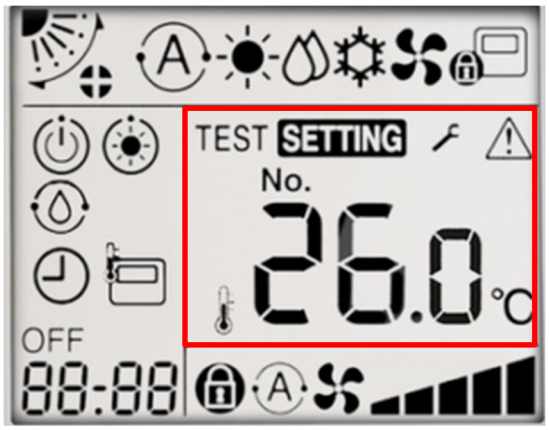
Display middle Right.

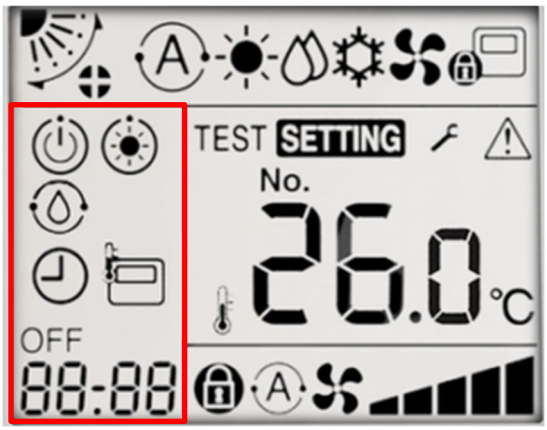
Protection device activated.

SETTING. System auto checking after power down.

Temperature set point,
(Can be configured either single increments or
0.5 increments, via bit switch on rear.)

TEST -Test mode selected.





Display Middle Left.

Running standby indicator (VRF)

Preheat indicator.

Self-clean operation.

Timer, (Off timer 0.5hr to 24hr.)

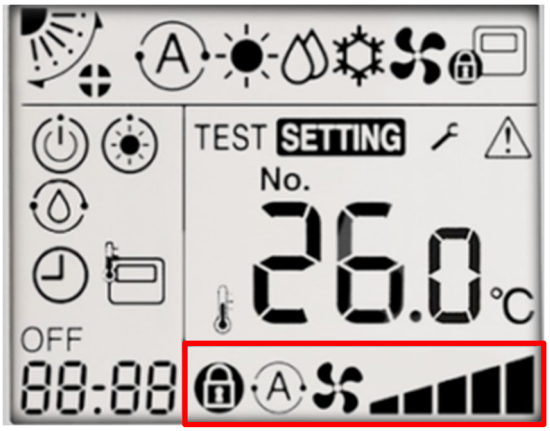
Remote sensor indication.

Display bottom right.

Fan - Fixed speed selected.

Auto fan speed.

Specific Fan speed.



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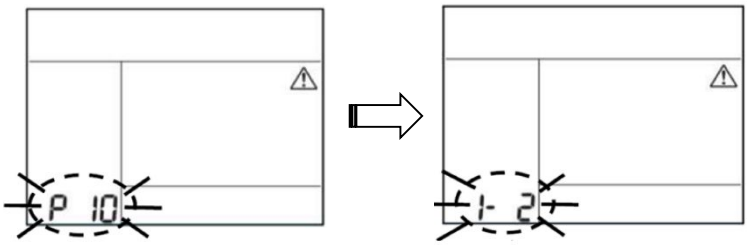
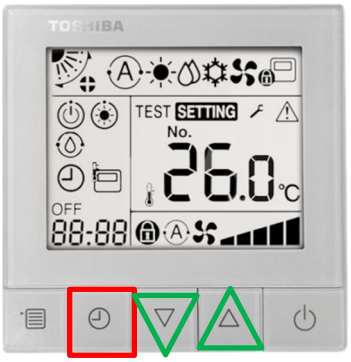
Troubleshooting.

Active fault.

If the system encounters a fault,
The check code will be automatically
Displayed in the “Timer Off” window,
Bottom left display.
The display will automatically scroll
and display the reference of the
affected unit.





For troubleshooting history.

The “history” can store 4 codes.

To access the history, long press (10 seconds) the “Timer” button.

To scroll through the codes, press “UP/Down”.

Do not press the “Menu” button for more than 10 seconds as this will erase the history.
To erase the memory, press the “Menu” button for more than 10 seconds.

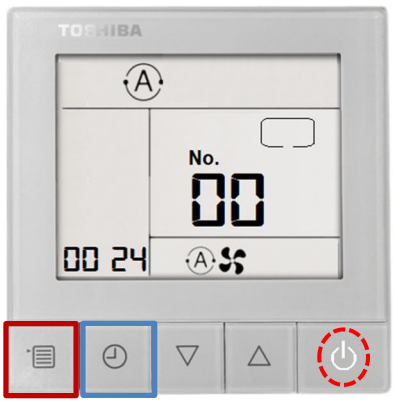
Monitor mode.

To enter “Monitor” mode.

With the system ON, (power light illuminated**).**

Press and hold the “Menu” button for 10 seconds,

Then press the “Timer” button.



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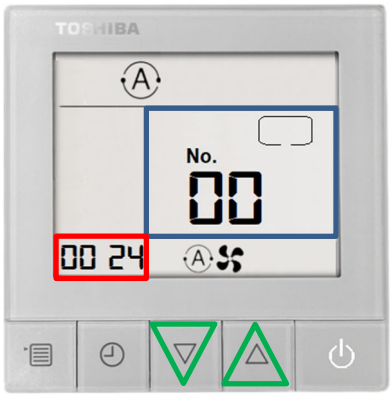
In Monitor mode, data is displayed from indoor units and outdoor units.



The "Code" is displayed in the right-hand display, "No. ##".

To scroll through the "Codes" use the "UP/DOWN" buttons

The "Data" from the respective component is displayed in the bottom left-hand display "####" (Read ONLY**).**

To exit "Monitor" mode, press the "Menu button".

For Digital/ Super Digital inverter R32 equipment.

Code	Indoor Data	Code	Outdoor Data
00	Room Temp (Control Temp) (°C)	60	TE Sub-cooled Liquid Temp (°C)
01	Room Temp (Remote Controller) (°C)	61	TO Ambient Temp (°C)
02	TA Return Air Temp (°C)	62	TD Discharge Temp (°C)
03	TCJ Coil Liquid Temp (°C)	63	TS Suction Temp (°C)
04	TC Coil Vapour Temp (°C)	65	THS Inverter Heat Sink Temp (°C)
07	Fan Speed (rpm)	6A	Operation Current (x1 1/0) (A)
F2	Fan Run Time (x 100h)	6D	TL Liquid Temp (°C)
F3	Filter Duration Timer (x 1h)	70	Compressor Frequency (rps)
		72	Fan Speed (Lower) (rpm)
		73	Fan Speed (Upper) (rpm)
		F1	Compressor Run Time (x 100h)

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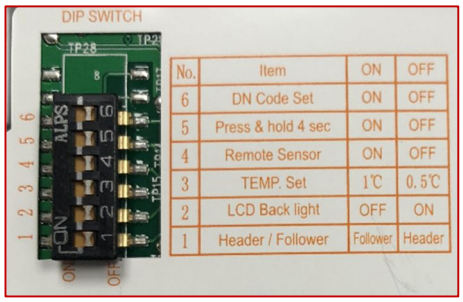
For "*e*" series R410A VRF equipment.

Code	Outdoor Data	Code	Outdoor Data
*0	Pd – High Pressure Sensor (x100) (MPa)	#0	PMV 1 Opening
*1	Ps – Low Pressure Sensor (x100) (MPa)	#1	PMV 3 Opening
*2	Td1 – Compressor 1 Discharge Temp (°C)	#2	PMV 4 Opening
*3	Td2 – Compressor 2 Discharge Temp (°C)	#3	1 Fan model: Comp. 1 Current (x10) (A) 2 Fan model; Comp. 1 and Fan current (x10) (A)
*5	TE1 – Outdoor Coil Temp (°C)		
*6	TE2 – Outdoor Coil Temp (°C)	#4	1 Fan model: Comp. 1 Current (x10) (A) 2 Fan model; Comp. 1 and Fan current (x10) (A)
*9	TO – Outdoor Ambient Temp (°C)		
*A	TS1 – Suction Temp (°C)	#6	Compressor 1 revolutions
*B	TS2 – Suction Temp (°C)	#7	Compressor 2 revolutions
*D	TL – Liquid Temp (°C)	#9	Outdoor fan mode
		#A	Compressor IPDU 1 Heat Sink Temp (°C)
90	Heating/cooling recovery controlled	#B	Compressor IPDU 2 Heat Sink Temp (°C)
91	Pressure release	#D	Outdoor Fan IPDU 1 Heat Sink Temp (°C)
92	Discharge temperature release	#E	Outdoor Fan IPDU 1 Heat Sink Temp (°C)
93	Follower unit release	#F	Outdoor unit horsepower (HP)
Note * Would be replaced with 1 = U1,2 = U2 or 3 = U3 to obtain data from respective outdoor unit. # Would be replaced with 5 = U1, 6 = U2 or 7 = U3 to obtain data from respective outdoor unit.			

Dip Switches.

In the rear of the controller there is a bank of 6 "Dip" switches.



No.	Item	ON	OFF
6	DN Code Set	ON	OFF
5	Press & hold 4 sec	ON	OFF
4	Remote Sensor	ON	OFF
3	TEMP. Set	1℃	0.5℃
2	LCD Back light	OFF	ON
1	Header / Follower	Follower	Header

These allow for certain functions to be enabled or disabled.

1) Header/Follower, this allows for more than one remote controller to be connected to a system. (Default setting OFF – Header)
2) LCD Back Light, this turns ON/OFF the back-light display. (Default setting OFF, Light ON).
3) Temp. Set, this allows for the temperature to be displayed /selected as a whole or a decimal i.e. 21°C Dip switch ON, 21.5°C Dip switch OFF. (Default setting OFF 0.5°C).
4) Remote Sensor, this will set the "Return Air – TA" at the remote controller, (Default is OFF – Return Air – TA at the indoor unit.)
5) Press and Hold 4 Sec. This will change the operation mode of the ON/OFF switch, the button will need to be pressed and held for 4 seconds or more to turn ON/OFF the system. (Default OFF – No delay.)
6) DN Codes, this allows or restricts access via the buttons on the front of the remote, to the "DN Codes". (Default OFF – No access.)

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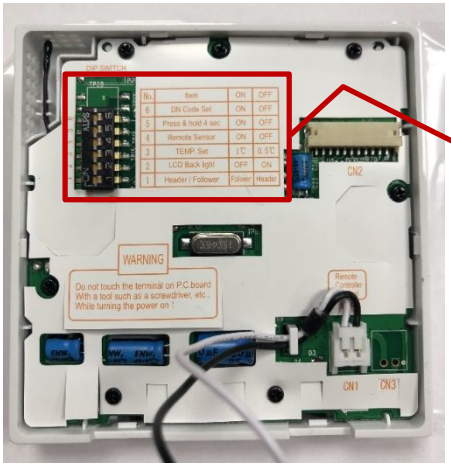
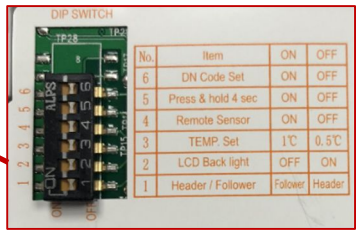
For “DN Code” access.

The RBC-ASC11E remote can also be used by service/installation engineers to access the configuration menu, “DN Codes”, to activate this function change “Dip Switch - 6” from default OFF to ON.

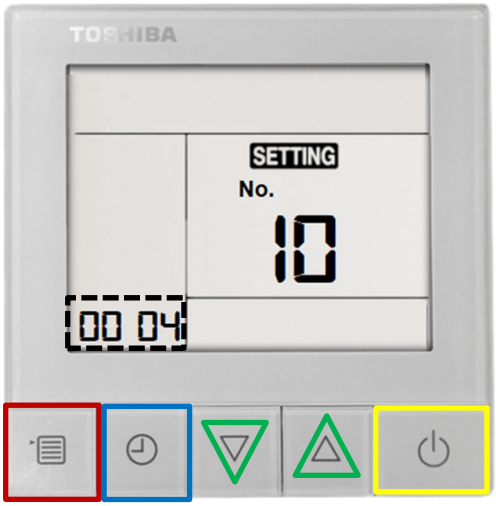
NOTE: Return the “Dip Switch” to default when configuration is completed.



Firstly, set “Dip switch – 6” to ON



With power applied but the system OFF,
i.e. the power light is NOT illuminated.
Press and hold for 10 seconds the “Menu”
button and the “Down button”
Once the display changes then press the
“Timer” button.



The system automatically starts at “DN Code” 10.
Scroll through the “DN Codes” using the
“Up/Down” buttons.

To move to “Data” (Bottom left display)
press the “Menu” button.
To change the “Data” use the “Up/Down” buttons.

To “Fix” a change to the “Data” press the
“Timer” button.
To end press the “Power Button”

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Some useful DN codes.

For a full list of “DN Codes” please refer to the service manual for the installed equipment or to one of the” CDL Pocket Handbooks” R32 or R410A.

ITEM	DESCRIPTION		VALUE	DEFAULT
03	Network address	When under network control.	0099: Unset 0001 to 0064 available	0099
06	Stratification control	Increases effective return air temperature setting in heating mode (0 to 10K)	0000 to 0010	0002; +2°C Floor type 0000; 0°C
0d	Auto mode	Enable or disable Auto mode	0000 = available 0001 = unavailable	0000 except SMMSe
0E	SHRMi only	Used when multiple indoor units are served via a single FS box	0000 = normal 0001= multiple units	0000
0F	Heat Mode	Enable or disable Heat Mode	0000 = available | 0001 = unavailable	0000
10	Indoor unit model	Must be set when replacing indoor printed circuit board	0000: 1-way cassette (s models) 0001: 4-way cassette 0002: 2-way cassette 0003: 1-way cassette (y models) 0004: duct (standard) 0005: slim duct 0006: duct (high static) 0007: ceiling 0008: hi wall 0010: console 0011: concealed floor 0014: 4-way compact cassette (600 x 600) 0013: tall cabinet 0016: fresh air intake 0050: air to air heat exchanger	
11	Indoor unit capacity	0000 will generate a (L09) fault	0004 =005* - 0012 =027* 80* 0001 =007* - 0013 =030* - 0003 =009* 30* 0015 =036* 110* 0005 =012* - 0017 =048* 140* 0006 - 40* 0018 =056* 160* 0007 =015* - 0021 =072* 224* 0009 =018* 56* 0023 =096* 280* 0011 =024* - - - - Air to air heat exchanger Type 0001 = 150m^3/h 0002 = 250m^3/h 0003 = 350m^3/h 0004 = 500m^3/h 0005 = 650m^3/h 0006 = 800m^3/h 0007 = 1000m^3/h	
12	System number	DI/SDI indoor and outdoor units are automatically addressed, this value may be set manually but it must be done via the wired controller – on an individual basis. Settings are 0001 to 0030	0001: outdoor unit 1 0002: outdoor unit 2	0099
13	Indoor unit number	Indoor units connected to a common outdoor unit (e.g. twinned indoor units) will have the same system number - settings are 0001 to 0064. Automatically allocated – but may be manually overridden.	0001: indoor unit 1 0002: indoor unit 2	0099
14	Group master/slave	Allows selection of master indoor unit within group. Automatically allocated but may be manually overridden.	0000: single indoor unit 0001: group master 0002: group slave	0099
16	Indoor Fan	Indoor fan speed selection. Binary addition.	0015 = all speeds available 1 = auto; 2 = low; 4 = medium; 8 = high	0015 except high static 0008
1E	Dead band - auto	Changeover sensitivity in automatic mode. (1 to 10 k adjustable)	0000: 0 K 0010: 10 K	0003
1F	Max. Setting	Cooling mode maximum temperature setting (18 – 29°C)	0018 = 18°C 0020 = 20°C 0029 = 29°C	29 ° C
20	Min. Setting	Cooling mode minimum temperature setting (18 – 29°C)	0018 = 18°C 0020 = 20°C 0029 = 29°C	18 ° C
21	Max. Setting	Heating mode maximum temperature setting (18 – 29°C)	0018 = 18°C 0020 = 20°C 0029 = 29°C	29 ° C
22	Min. Setting	Heating mode minimum temperature setting (18 – 29°C)	0018 = 18°C 0020 = 20°C 0029 = 29°C	18 ° C
23	Max. Setting	Dry mode maximum temperature setting (18 – 29°C)	0018 = 18°C 0020 = 20°C 0029 = 29°C	29 ° C
24	Min. Setting	Dry mode minimum temperature setting (18 – 29°C)	0018 = 18°C 0020 = 20°C 0029 = 29°C	18 ° C
25	Max. Setting	Auto mode maximum temperature setting (18 – 29°C)	0018 = 18°C 0020 = 20°C 0029 = 29°C	29 ° C
26	Min. Setting	Auto mode minimum temperature setting (18 – 29°C)	0018 = 18°C 0020 = 20°C 0029 = 29°C	18 ° C
28	Auto restart	Enable or disable	0000: disabled 0001: enabled	0000
2d	Modes available	Binary addition of modes available.	0015= all modes 1 = fan; 2 = cool; 4 = dry 8 = heat	0015

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24/7 technical support

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