Raising the standards in Air Conditioning

Pocket Quick Reference Guide On the TOSHIBA

Wired Remote Controllers

Accessing the Engineering mode

"DN Codes"

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Index

	Page
RBC-AMT32-E, RBC-AMTU31-E, RBC-AMS41-E	3
RBC-AMSU51-E	4
RBC-AMSU52-E, RBC-AWSU52-E	5
RBC-ASCU11-E	6
RBC-ASC11-E	7
RBC-MTSC1, RBC-MTSC2	8
Some useful “DN” Codes	9
Notes	10
Contact Details	12

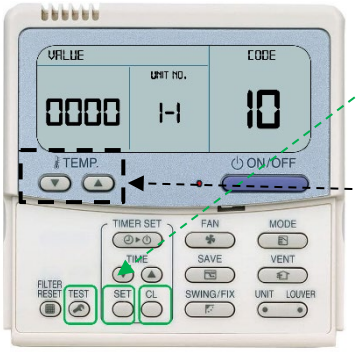
Quick Reference Guide

To assist service engineers working on Toshiba air conditioning equipment, there is a large quantity of data available via the wired remote controllers, this data is **NOT** available via an Infra-red remote or a central controller.

Accessing the data is a simple process of entering into the on-board menu of the remote controller.

RBC-AMT32-E / RBC-AMTU31-E / RBC-AMS41-E

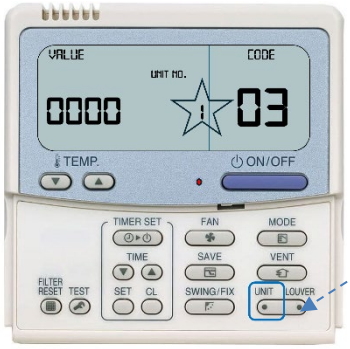
Accessing the engineering (DN) Codes for the Indoor Unit



Press and hold the **TEST, SET & CL Buttons** simultaneously for 4 seconds.

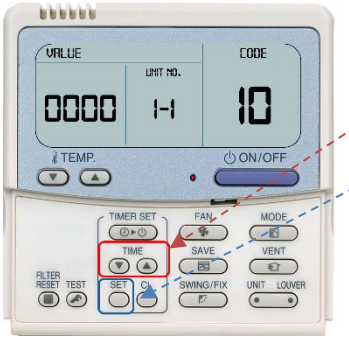
The Engineering Menu is accessed at item code 10 on the right. The fan and louver of the selected unit will start.

Use the **Temperature ▲▼ Buttons** to navigate to the required code.



When accessing the new 3 figure codes, the third digit will be displayed where the Unit No, (Centre) was displayed, **Only accessible using a "U Series Remote Controller"?**

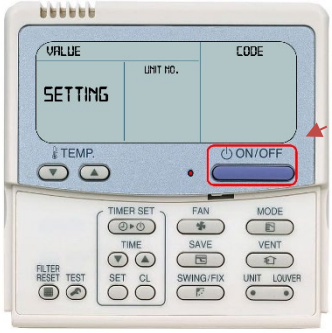
To change the unit No., press the left hand "UNIT" button, Unit No flashes three times then returns to the third digit.



Use the **Timer ▲▼ Buttons** to adjust the value from 0000 to 0***

Press **SET** to acknowledge the change.

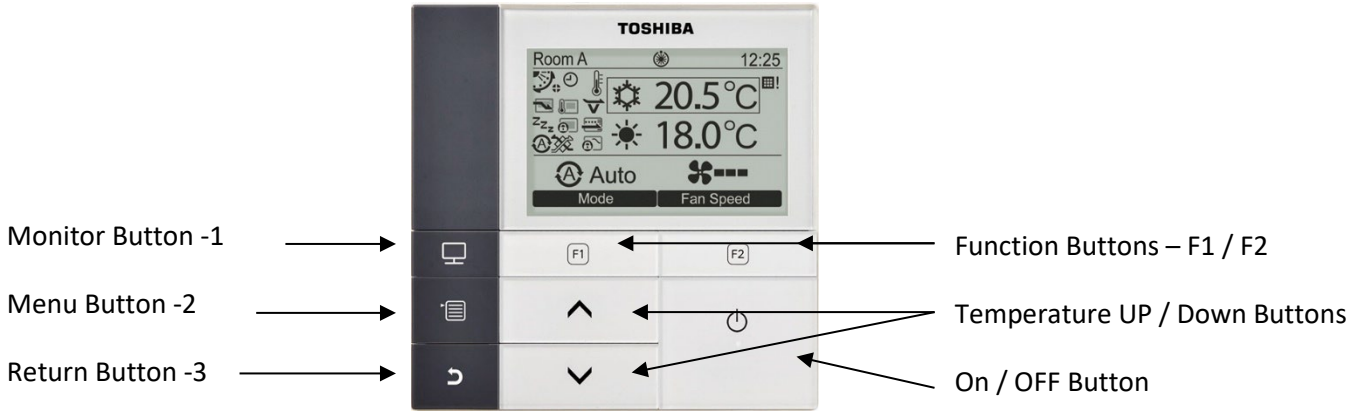
The display will go blank and then flash **SETTING** whilst the system reconfigures.



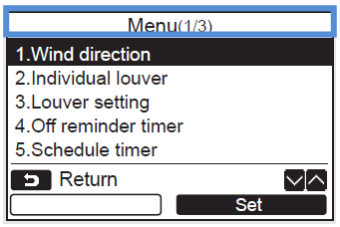
When **SETTING** stops flashing press **ON/OFF Button** to restart the operation

RBC-AMSU51-ES

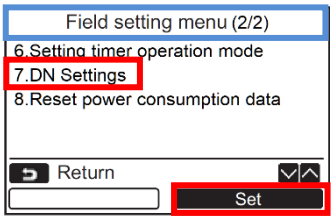
Accessing the engineering (DN) Codes for the Indoor Unit



1. Press the "**[MENU]** 2" button to display the "**Menu screen**".

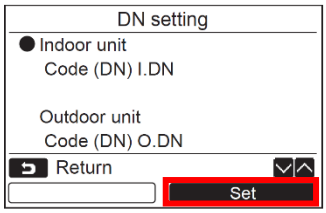


2. Press and hold the "**[MENU]** 2" button and the "**[∨]**button at the same time for more than 4 seconds to display the "**Field setting menu**"



3. Scroll down to page 2, item no. "**7 DN Settings**". using the "**[∨]**"button.

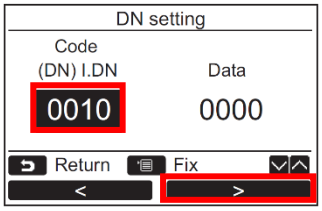
4. Press "F2" Set



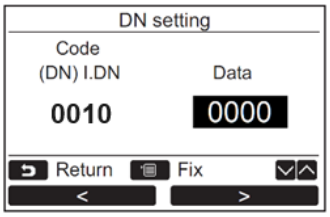
5. Select "Indoor Unit - I. DN"
   Press "F2 Set

6. Code (I. DN) 0010 is displayed on the left.

   Using the " [∧] / [∨]"
   Change I. DN from "0010" to "0***"
   Press " > (F2)" to highlight "**Data**" on the right.



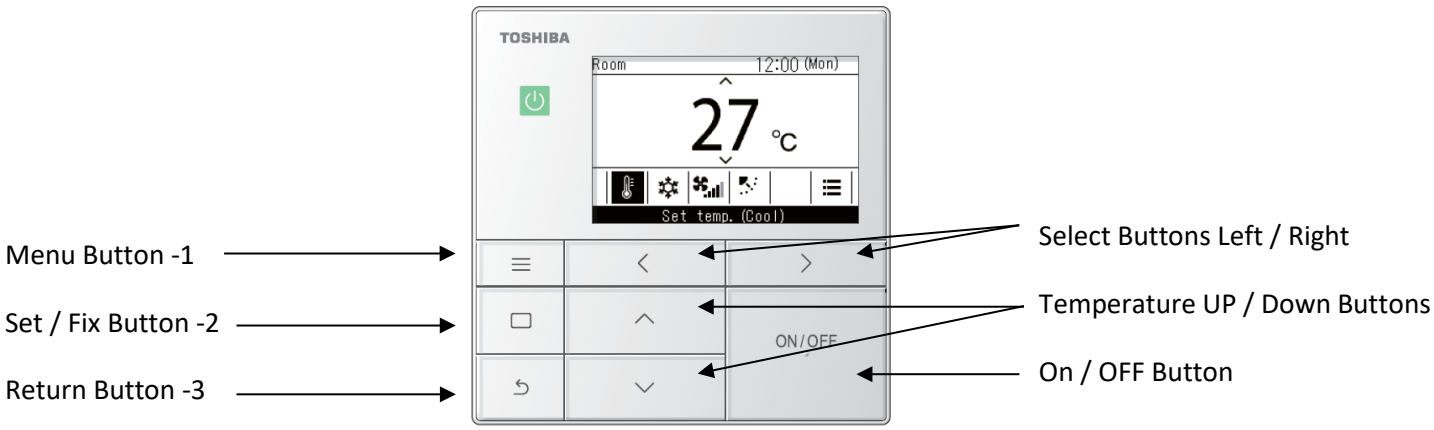
7. Change "**Data**" from "0000" to "0***" by pressing the "**[∧] / [∨]**"



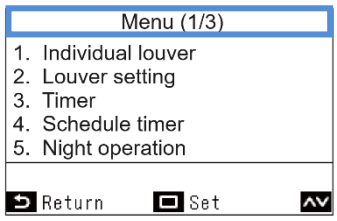
8. Press " -2" follow on screen instructions.

RBC-AMSU/AWSU52-E

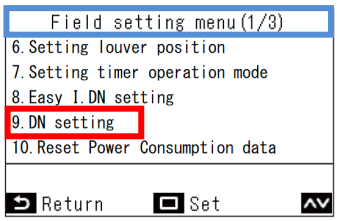
Accessing the engineering (DN) Codes for the Indoor Unit



1. Press the "**[MENU]**· 1" button to display the "**Menu screen**".



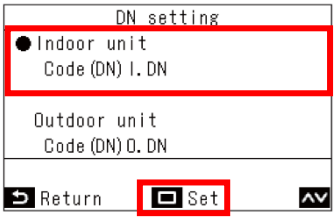
2. Press and hold the "**[MENU]**·1" button and the "**[∨]**'button at the same time for more than 4 seconds to display the "**Field setting menu**"



3. Scroll down to page 2, item no. "**9 DN Settings**" using the "**[∨]** "button.

4. Press "Set/Fix - 2"

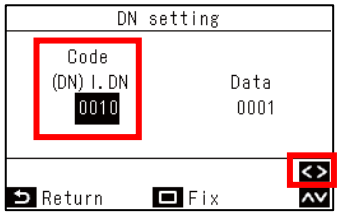
5. Select "Indoor Unit - I. DN"
   Press "Set/Fix – 2"



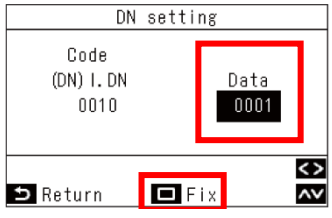
6. Press "Select button <" to backlight the code.

7. Code (I. DN) 0010 is displayed on the left.

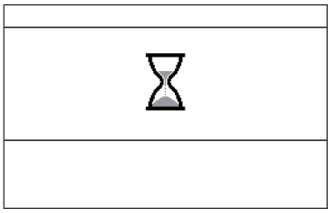
   Using the "[∧]/[∨]"
   Change I. DN from "0010" to "0***"
   Press "Select button >" to backlight "**Data**" on the right.



8. Change "**Data**" from "0000" to "0***" by pressing the "**[∧]/[∨]**"



9. Press "Set/Fix -2". "Continued is displayed"

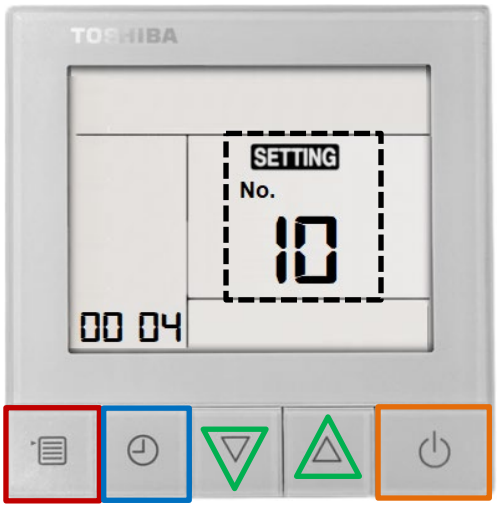


10. To change additional I.DN codes, press "Set/Fix -2"
    Once all codes have been changed press "Return -3" - "⌛ is displayed" whilst changers are fixed.

RBC-ASCU11-E

Accessing the engineering (DN) Codes for the Indoor Unit

With power applied but the system **OFF**,
i.e. the power light is **NOT** illuminated.
Press and hold for 10 seconds the "**Menu -1**".
button and the "**Down button -3**".
Once the display changes then press the
"**Timer -2**" button.



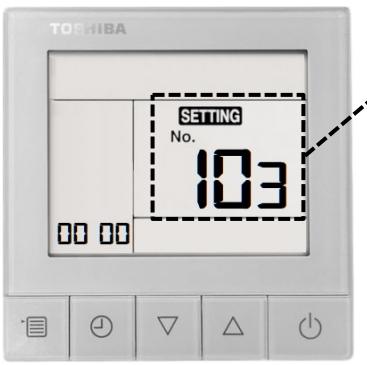
The system automatically starts at "DN Code" 10.
Scroll through the "**DN Codes**" using the
"**Up/Down -3,5**" buttons.

To move to "Data" (Bottom left display)
press the "**Menu -1**" button.
To change the "Data" use the "**Up/Down -3,5**" buttons.

To "Fix" a change to the "Data" press the
"**Timer -2**" button.
To end press the "**Power Button**".

NOTE.

The new "**UP**" range of VRF indoor units and the new "U" series outdoor units (**SMMSu/SHRMa**) utilize a range of new "**DN**" codes, some of which are now three-digit codes, when accessing a three-digit code the last digit is slightly smaller than digits one and two.



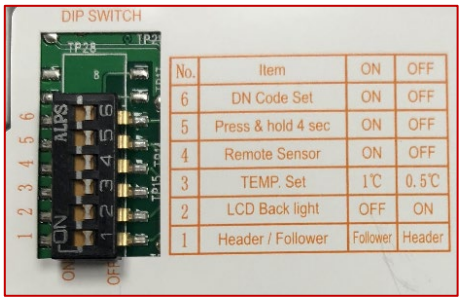
DN Code 103 (3 figure)

DN Code 03 (2 figure)

RBC-ASU11-E - ONLY

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.)

Note. Dip switch 6 does **NOT** have the same function as the **RBC-ASCU11-E** remote, on the RBC-AS11-E model, dip switch 6 reduces the light level of the operation indicator light, it does NOT give access to "DN Codes".

Accessing and adjusting the "**DN Codes**" are the same as for the **RBC-ASCU11-E**

RBC-MTSC-1/2

Accessing the engineering (DN) Codes for the Indoor Unit

To access the configuration menu.

1. Press and hold the bottom **right** corner of the screen, (do not remove your finger) then with a second finger,

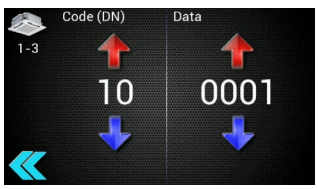
2. Press and hold the bottom **left-hand** corner of the screen.

3. Keep pressing the bottom **left** corner of the screen, release your **right-hand** finger from the bottom **right** of the screen, keeping the bottom **left** of the screen pressed.

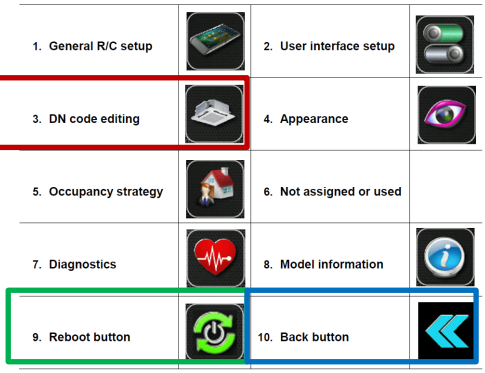
4. Then tap the bottom **right-hand** corner of the screen **four** times.

If carried out correctly the display screen will change, and the following will be displayed.

Configuration menu Icons.



3. DN Code Setting.
To change DN code or Data, use the respective UP/DOWN buttons.
To enable changes, press the "GREEN" button -9, to EXIT press the "BACK" button -10.



DN Code Setting.
To change "**DN code**" or "**Data**", use the respective **UP/DOWN** buttons.
To enable changes, press the "**GREEN**" button -9, to EXIT press the "**BACK**" button -10.

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", available via:

WWW.cdlweb.info

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/u
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	See table below		
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 to 0064 No.30-unit TCC-Link 0001 to 0128 No.128 unit – TCU2-Link 00Un Unfixed "U" series remote. 0099 Unfixed "Non-U" series remote		00Un / 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 to 0064 No.30-unit TCC-Link 0001 to 0128 No.128 unit – TCU2-Link 00Un Unfixed "U" series remote. 0099 Unfixed "Non-U" series remote		00Un / 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		00Un / 0099
16	Indoor Fan	Indoor fan speed selection. Binary addition.	0015 = all speeds available1 = 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
32	TA Sensor Location	Return air/room sensor or in local controller	0000: return air sensor (Unit)	0001: Remote Controller	0000
103	Remote Controller	VRF IDU "U" Series Local remote controller used or not used	0000: Use	0001: Do not use	0000

	MM	RAV		MM	RAV
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

NOTES

NOTES

Contact details:

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TOSHIBA Air Conditioning

24/7 technical support

0870 843 0333 (Option 7)

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