



# Carrier Toshiba VRF Remote Control Quick Startup Guide

Carrier Enterprise  
Technical Services

## RBC-AMS54E-UL – Remote Controller



- 1 – MONITOR: Displays the monitoring screen.
  - 2 – MENU: Displays the menu screen.
  - 3 – CANCEL: Functions as indicated on the display, such as returning to the previous menu screen.
  - 4 – UP: During normal operation, adjusts the temperature. On the menu screen, selects menu item.
  - 5 – DOWN: During normal operation, adjusts the temperature. On the menu screen, selects menu item.
  - 6 – F1: Varies its function according to the setting screen.
  - 7 – F2: Varies its function according to the setting screen.
  - 8 – ON/OFF: Turns system ON or OFF
- More display icons are explained on page 3 of this document.

### Basic Operation:

1. Turn ON the remote control by pressing the ON/OFF button.
2. Select the MODE by pressing the MODE (F1) button.
  - AUTO, HEAT, DRY, COOL, FAN are selectable modes of operation.
3. Select FAN speed by pressing Fan Speed (F2).
  - AUTO, HIGH, MED+, MED, LOW+, LOW are selectable fan speeds.
4. Once AUTO, COOL, DRY or HEAT mode is selected, set desired temperature using the UP/DOWN arrow button. In AUTO mode set both the HEAT & COOL set points, see next page for additional information.

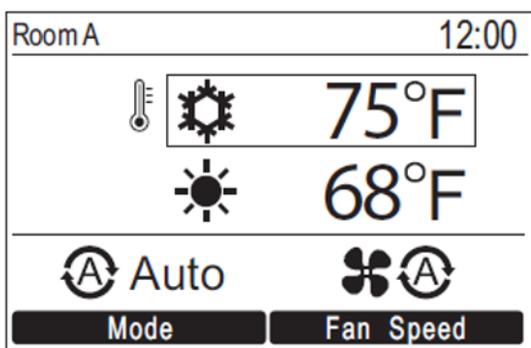
More detailed information on these items and more can be found in the Installation and Operation Manual that came with the remote controller. If lost contact CE Tech Service with model number for replacement.



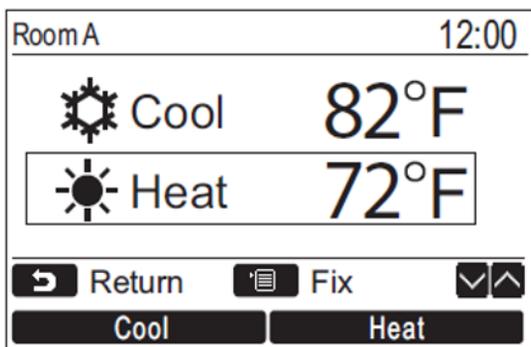
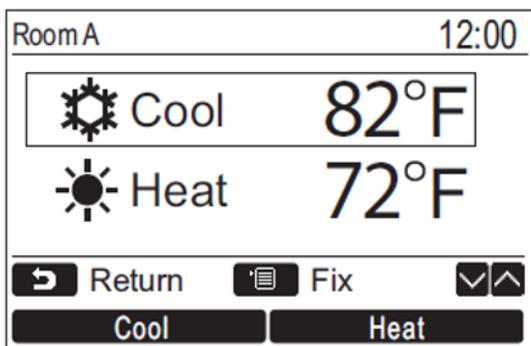
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## Auto Mode & Dual Set Points:

In dual set point setting, the temperature set point of individual cooling and heating can be set to adjust the indoor temperature.



1. Push the UP or DOWN button to switch to the display shown on the left.
2. To set the cooling temperature set point, push [Cool] and adjust the setting with UP/DOWN buttons. A box will surround [Cool] and [Temperature set point]. To set the heating temperature set point, push [Heat] and adjust the setting with UP/DOWN buttons. A box will surround [Heat] and [Temperature set point]. Push [MENU] to confirm the settings and return to the normal display. Push [CANCEL] to cancel the settings and return to the normal display.



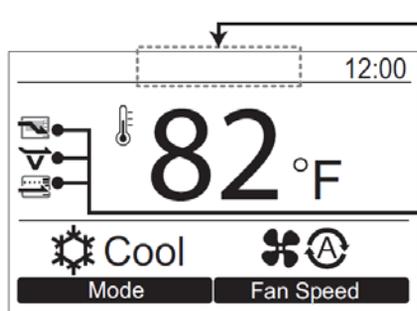


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## Display Modes:

To switch between displays: Push and hold the [ CANCEL] button and the [ Monitor] button at the same time for more than 4 seconds.

### 1. Normal Display (factory default)



(\*1)

#### Energy saving icon

- Displayed when performing the power saving operation of the air conditioner.

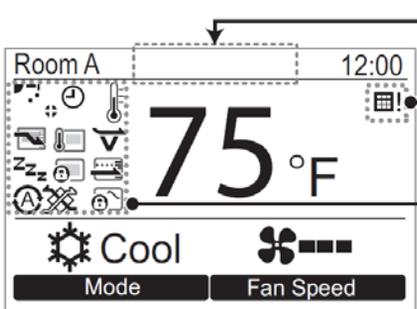
#### Soft cooling icon

- Shows the air conditioner is performing the soft cooling operation.

#### Saving icon

- Displayed when performing operation by suppressing excessive heating or excessive cooling through automatic correction of the temperature set point.

### 2. Detailed Display



(\*1)

Icons appear on the screen when the detailed display mode is selected.

\*1 • The "Preparing to heat" icon appears when the heating operation starts or when defrosting operation. The indoor fan stops or the operation becomes the blowing operation when it is displayed.  
 • It may be displayed depending on the model when "Preparing to operate" is displayed.

#### ▼ Icon list

	Shows the Energy saving operation is activated.		Shows a timer function is activated.		Shows the Night operation is activated.
	Shows the remote control sensor is activated.		Shows the Louver lock is activated.		Shows the central control device prohibits the use of the remote control
	Shows the saving operation is activated.		Shows soft cooling is activated.		Shows the setting of the louver.
			Shows operation switching control is in progress.		Shows the filter needs to be cleaned.

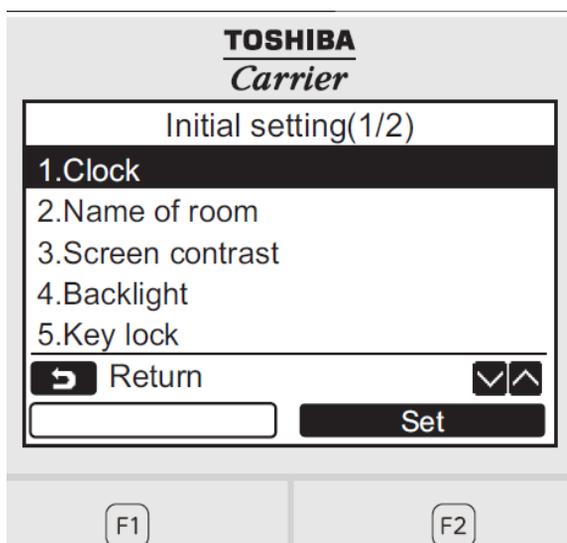
\*2 Normally the temperature sensor of the indoor unit senses the temperature. The temperature around the remote control can also be sensed. For details, contact the dealer where you purchased the air conditioner. \* Do not use the function when the air conditioner is controlled in a group.



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## Initial Settings:

1. Press the [  MENU] button. Once the Menu is displayed press the UP/DOWN buttons to highlight Initial Setting and then press [  Set F2] button to select.



## Initial Settings Menu:

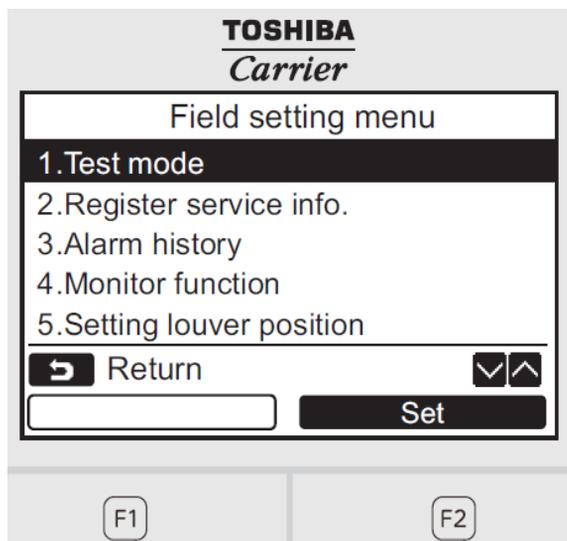
Item	Function
1. Clock	Settings for the clock (Year, Month, Day, time)
2. Name of room	Refer to the Owner's Manual supplied with the remote control.
3. Screen contrast	Contrast adjustment of the LCD
4. Back light	Turning on / off the back light of the LCD
5. Key lock	Prohibiting the button operations
6. Header / Follower	Refer to the Owner's Manual supplied with the remote control.
7. Language	Setting for the language displayed on the remote control.
8. Press & hold 4sec.	Setting for the "press and hold" operation for the [  ON / OFF] key.



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## Field Settings:

1. Press the [  MENU] button to display the menu screen.
  2. Push and hold the [  MENU] button and the [DOWN] button at the same time to display the “Field setting menu”.  
Push and hold the buttons for more than 4 seconds.
  3. Push the [ CANCEL] button to return.
  4. Press the UP/DOWN buttons to highlight and then press [  Set F2] button to select field setting to adjust.
- Commonly used:
    - 5. Setting louver position
    - 7. DN setting



Item	Function
1. Test mode	Settings for when performing the test operation after installation
2. Register service info	Registration of information about the contact number for service, model name and serial number of the indoor unit and outdoor unit
3. Alarm history	List of latest 10 alarm data: information of check code, date, time, and unit
4. Monitor function	Monitoring data of sensor temperature, rotating speed of the compressor or other factor.
5. Setting louver position	Change the louver indication setting to match the indoor unit type.
6. Setting timer operation mode	Set whether or not the operation mode can be selected when setting the schedule timer.
7. DN setting	Advanced settings using DN code

For full list of DN codes, see page 6 ~ 8.



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## DN Codes:

DN	Item	Description	At shipment
01	Filter display delay timer	0000: None 0001: 150H 0002: 2500H 0003: 5000H 0004: 10000H	According to type
02	Dirty state of filter	0000: Standard 0001: High degree of dirt (Half of standard time)	0000: Standard
03	Central control address	0001: No.1 unit to 0064: No.64 unit 0099: Unfixed	0099: Unfixed
04	Specific indoor unit priority	0000: No priority 0001: Priority	0000: Unfixed
06	Heating temp shift	0000: No shift 0001: +1°C(+1.8°F) 0002: +2°C(+3.6°F) to 0010: +10°C(+18°F) (Up to +6 recommended)	0002: +2°C(+3.6°F) (Floor type 0000: 0°C)
0d	Existence of [AUTO] mode	0000: Provided 0001: Not provided (Automatic selection from connected outdoor unit)	0001: Not provided
0F	Cooling only	0000: Heat pump 0001: Cooling only (No display of [AUTO] [HEAT])	0000: Heat pump
10	Type	0001: 4-way Air Discharge Cassette	Depending on model type
11	Indoor unit capacity	0000: Unfixed 0001 to 0034	According to capacity type
12	Line address	0001: No.1 unit to 0030: No.30 unit	0099: Unfixed
13	Indoor unit address	0001: No.1 unit to 0064: No.64 unit	0099: Unfixed
14	Group address	0000: Individual 0001: Header unit of group 0002: Follower unit of group	0099: Unfixed
19	Louver type (Air direction adjustment)	0000: No louver 0001: Swing only 0002: (1-way Air Discharge Cassette type, Under Ceiling type) 0003: (2-way Air Discharge Cassette type) 0004: (4-way Air Discharge Cassette type)	According to type
28	Automatic restart of power failure	0000: None 0001: Restart	0000: None
2A	Selection of option/error input (CN70)	0000: Filter input 0001: Alarm input (Air washer, etc.) 0002: None	0002: None
2E	HA terminal (CN61) select	0000: Usual 0001: Leaving-ON prevention control 0002: Fire alarm input	0000: Usual (HA terminal)
31	Ventilating fan control	0000: Unavailable 0001: Available	0000: Unavailable
32	TA sensor selection	0000: Body TA sensor 0001: Remote controller sensor	0000: Body TA sensor
33	Temperature unit select	0000: °C 0001: °F : (at factory shipment)	0001: °F
F0	Swing mode	0001: Standard 0002: Dual swing 0003: Cycle swing	0001: Standard
F1	Louver fixed position (Louver No.1)	0000: Release 0001: Horizontal discharge position 0005: Downward discharge position	0000: Not fixed
F2	Louver fixed position (Louver No.2)	0000: Release 0001: Horizontal discharge position 0005: Downward discharge position	0000: Not fixed
F3	Louver fixed position (Louver No.3)	0000: Release 0001: Horizontal discharge position 0005: Downward discharge position	0000: Not fixed
F4	Louver fixed position (Louver No.4)	0000: Release 0001: Horizontal discharge position 0005: Downward discharge position	0000: Not fixed



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## DN Codes (cont.):

### Slim, High Static Duct type

DN	Item	Description	Atshipment
5d	Static pressure selection	Slim Ducted 0001: Standard 1 (factory default) 0003: High static pressure 2 0006: High static pressure 3	0001: Standard
60	Timer setting (wired remote controller)	0000: Available (can be performed) 0001: Unavailable (cannot be performed)	0000: Available
92	Outside interlock release condition	0000: Operation stop 0001: Release communication signal receive	0000: Operation stop

### Type DN code "10"

Value	Type	Model
0005	Slim Ducted	MMD-AP***SPH2UL
0006	High static Ducted	MMD-AP***H2UL

\*1 Default value stored in EEPROM mounted on service P.C. board

### Medium Static Ducted type

DN	Item	Description	Atshipment		
5d	<b>SET DATA</b>	0000	0001	0003	0006
	External static pressure	0.008psi (55Pa) Standard (Factory default)	0.013psi (90Pa) High static pressure 1	0.017psi (120Pa) High static pressure 3	0.006psi (40Pa) Low static pressure
	DIP Switch position	SW01 SW02 OFF OFF OFF OFF ON OFF ON OFF 	SW01 SW02 OFF ON OFF OFF ON OFF ON OFF 	SW01 SW02 OFF OFF OFF ON ON OFF OFF ON 	SW01 SW02 OFF ON OFF ON ON OFF ON OFF 
60	Timer setting (wired remote controller)	0000: Available (can be performed) 0001: Unavailable (cannot be performed)	0000: Available		
92	Outside interlock release condition	0000: Operation stop 0001: Release communication signal receive	0000: Operation stop		

### Type DN code "10"

Value	Type	Model
0004	Medium static ducted type	MMD-AP***BH2UL

\*1 Default value stored in EEPROM mounted on service P.C. board

DN	Item	Description	Factory default
77	Dual set point setting	0000: Normal automatic 0002: Dual automatic	0000

2E	External On / Off control	Making or breaking terminals 1 and 2 of CN61 (indoor PCB) External switching option, remove jumper 01 master indoor PCB allows continuous contact switch- link 01 in place; pulse switch required	0000 = group starts when made stops when open 0001 = enable when made, disable when open	0000
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## DN Codes (cont.):

### 4-way, Compact 4-way, Ceiling, High wall type

DN	Item	Description	Atshipment									
5d	High-ceiling adjustment (Air flow selection)	4-way Cassette	0000: Standard									
		Value	Type	AP018	AP021, AP024, AP030	AP036, AP042						
			Air flow at outlet	4-Way	3-Way	2-Way	4-Way	3-Way	2-Way	4-Way	3-Way	2-Way
		0000	Standard (factory default)	9'2" (2.8)	10'6" (3.2)	11'6" (3.5)	9'10" (3.0)	10'10" (3.3)	11'10" (3.6)	12'10" (3.9)	13'9" (4.2)	14'9" (4.5)
		0001	High-ceiling (1)	10'6" (3.2)	11'6" (3.5)	12'6" (3.8)	10'10" (3.3)	11'6" (3.5)	12'6" (3.8)	13'9" (4.2)	14'5" (4.4)	15'1" (4.6)
0003	High-ceiling (3)	11'6" (3.5)	12'6" (3.8)	—	11'10" (3.6)	12'6" (3.8)	—	14'9" (4.5)	15'1" (4.6)	—		
		Ceiling										
		Value	Type	AP015-AP056								
		0000	Standard (factory default)	11.5 ft (3.5 m) or less								
		0001	High-ceiling (1)	13 ft (4.0 m) or less								
60	Timer setting (wired remote controller)	0000: Available (can be performed) 0001: Unavailable (cannot be performed)	0000: Available									

### Type DN code "10"

Value	Type	Model
0001*1	4-way Cassette	MMU-AP***H2UL
0007	Ceiling	MMC-AP***H2UL
0008	High Wall	MMK-AP***H2UL
0014	Compact 4-way Cassette	MMU-AP***MH2UL

\*1 Default value stored in EEPROM mounted on service P.C. board

### Indoor Unit Capacity DN code "11"

Value	Capacity
0000*	Invalid
0001	007 type
0003	009 type
0005	012 type
0007	015 type
0009	018 type
0010	021 type
0011	024 type
0012	027 type
0013	030 type
0015	036 type
0016	042 type
0017	048 type
0018	056 type
0021	072 type
0023	096 type
~	—

\*1 Default value stored in EEPROM mounted on service P.C. board