TOSHIBA
Carrier

REMOTE CONTROLLER FOR AIR CONDITIONER (SPLIT TYPE)

# Installation Manual

Remote Controller

Model name :

Wireless remote controller kit

RBC-AX22CUL

Generic model name	Wireless remote controller and signal receiving unit
RBC-AX22CUL	WX-TA01UES (Wireless remote controller model name)
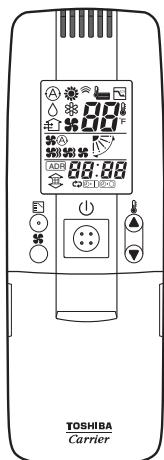
Wireless remote controller (WX-TA01UES)
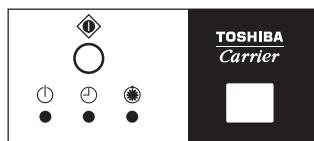
**Signal receiving unit**

Installation Manual Remote controller for air conditioner (Split type)	1	**English**
Manuel D'installation Télécommande pour climatiseur (Type split)	8	**Français**

Thank you very much for purchasing TOSHIBA/Carrier Remote Controller for Air Conditioner.

Please read the owner's manual carefully before using your Remote Controller for Air Conditioner.

• Be sure to obtain the "Owner's manual" and "Installation manual" from constructor (or dealer).

Request to constructor or dealer

Please clearly explain the contents of the Owner's manual and hand over it.

CONTENTS

1 ACCESSORY PARTS

No.	Accessory		Q'ty	No.	Accessory		Q'ty
1	Signal receiving unit		1	5	Owner's Manual		1
2	Remote controller		1	6	Installation Manual		1
3	Remote controller holder		1	7	Truss tapping screw, Ø0.16" × 0.63" (M4 ×16mm)		2
4	Battery		2				

2 INSTALLATION OF SIGNAL RECEIVING UNIT

1. Removal of suction grille

1) Slide the suction grille fixing knobs (2 positions) toward the arrow direction, and then open the suction grille. (Fig. A)

Fig. A

Suction grille fixing knob

Suction grille

Slide
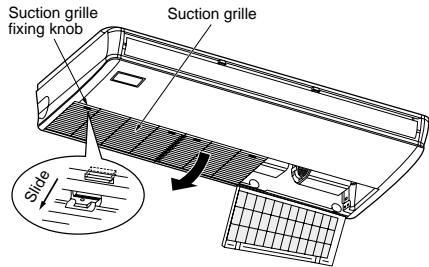
2) Remove the screws (2 pcs.) which are fixing the wire guard. Using clamps mounted to the wire guard, hang up the wire guard.

∗ Do not remove the fixing screws of clamps of the indoor unit.

Fig. B

Clamps
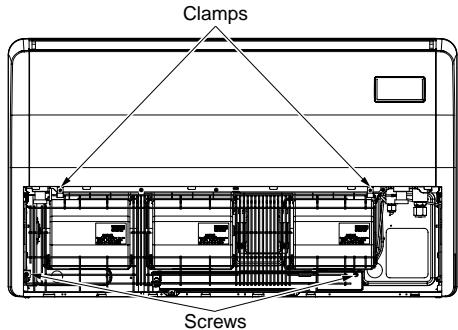
Screws

NOTE

After installation of the signal receiving unit, be sure to mount the wire guard as original. (Fig. C)

Fig. C

Wire guard
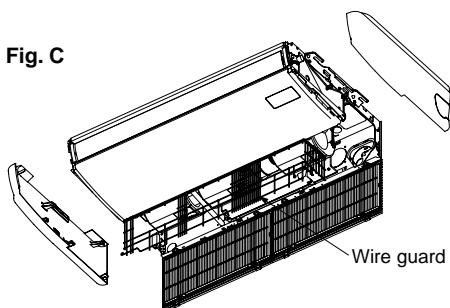
En

3) Remove a screw, move the side panel toward you (direction of arrow), and then remove the side panel. (Fig. D)

4) Lap the end of flat head screw driver with vinyl tape, and forcedly insert it into the groove at the side under circle mark on the cover. (Be careful not to damage the panel.) (Fig. E)

5) Pass the lead wire through the panel, and install the signal receiving unit to the panel hole. (Projection of the signal receiving unit is fixed by the panel hole.)

6) Fix the lead wire of the signal receiving unit to the cord clamp which fixes the cables of the louver motor. (Fig. F)

7) Install the side panels, with screws as original.

8) Put the lead wire from the signal receiving unit along cables of the louver motor and others, and then fix it with the cord clamp. (Fig. G)

　∗ It's connected to a connection of Remote control wire through a hole for Remote control wire. (Fig. H)

9) After all connections have been made, install wire guard and suction grill before doing the "TEST RUN".

Fig. D

Panel
Side panel
Screw
Suction grille

Fig. E

Flat head screw driver (Lap it with vinyl tape.)
Vinyl tape
Cover
Insert it into groove at the side under circle mark on the cover.

Fig. F

Cord clamp
Signal receiving unit

Fig. G

Cord clamp　　Cord clamp

Fig. H

High voltage wires and earth line
Hole for signal receiving unit wires
Lead wire from the signal receiving unit
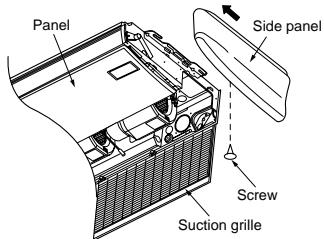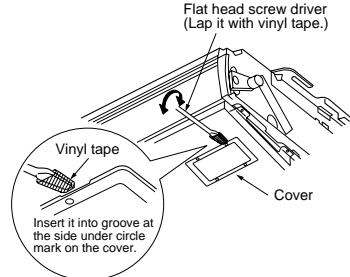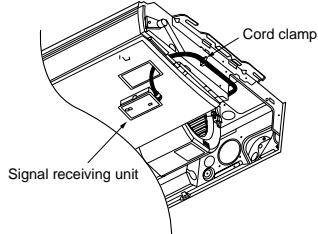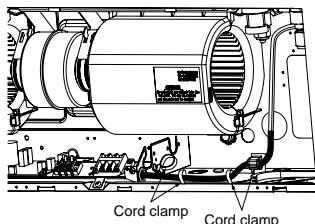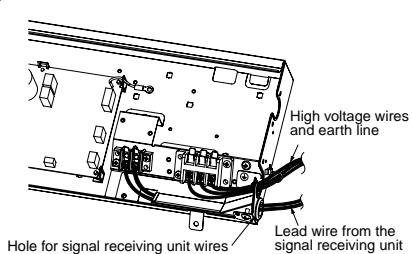
NOTE 1

Avoid to twist cables of the sensor with the power cables, otherwise a malfunction is caused.

∗ For cabling and TEST RUN, refer to "HOW TO PERFORM CABLING OF SIGNAL RECEIVING UNIT" of these sheets and "TEST RUN" of the Installation manual attached to the indoor unit.

3 HOW TO PERFORM CABLING OF SIGNAL RECEIVING UNIT

Connection diagram

Connection

• Connect the cables out of the signal receiving unit to the terminal block for remote controller cabling of the indoor unit. (There is no polarity.)

Indoor unit

Signal receiving unit P.C. board

Terminal block for remote controller cabling — White — CN001

Black

2P White
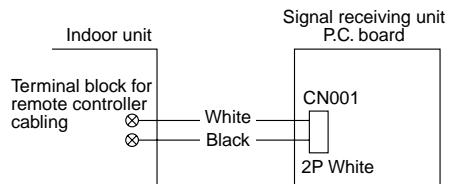
4 REQUIREMENT

The control by two remote controllers is enabled by installing the wireless remote controller with the wired remote controller for an indoor unit. (Max. 2 remote controllers of wireless or wired are installable.)
"2-remote controllers" controlling means that one or multiple units are operated by the multiple remote controllers.

NOTES

1. Upon confirmation of the terminal numbers of the indoor unit, connect the remote controller cables without miscabling. (If applied AC 208/230 Volt, damage the unit.)
2. The multiple wireless remote controller kits cannot concurrently be used for an indoor unit.
3. When installing simultaneously the wireless remote controller with the wired remote controller, set one of them as the sub remote controller.
   • When setting the wired remote controller as the sub, exchange the address connector at the rear of P.C. board of wired remote controller from main to sub remote controller.
   • When setting the wireless remote controller as the sub, turn No.3 of DIP switch [S003] on P.C. board of signal receiving unit from OFF to ON.

To operate an indoor unit by 2 remote controllers

∗ The indoor unit is operated if either wireless or wired remote controller is set as main or sub remote controller.
(Total cable length: Within 1312' 4" (400m))

Wireless remote controller kit (Main)

Wired remote controller (Sub)

Signal receiving unit CN001 [1][2]   [1][2] (Sold separately)

Remote controller cable (Procured locally) AWG20 (0.5mm²)

Terminal block for remote controller cable

Use UL wires rated 300V
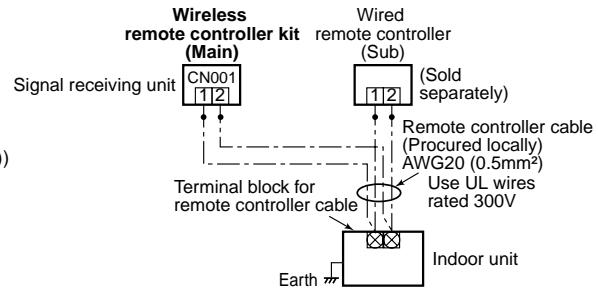
Earth   Indoor unit

To operate a group control of multiple indoor units by 2 remote controllers

∗ Main and Sub remote controllers are operable even if they are installed to any indoor unit.
(Total cable length: Within 656' 2" (200m))

Wireless remote controller kit (Main)

Wired remote controller (Sub)

Signal receiving unit CN001 [1][2]

Remote controller inter-unit cable for group control (Procured locally)
AWG20 (0.5mm²)
Use UL wires rated 300V

[1][2] (Sold separately)

Terminal block for remote controller cable

Indoor unit No.1   Indoor unit No.2   Indoor unit No.3   -   Indoor unit No.N

Earth   Earth   Earth   Earth

4
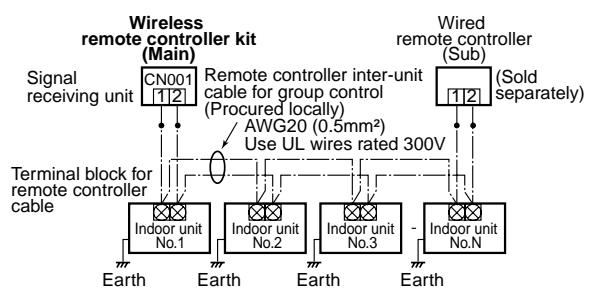
5 HOW TO SET THE ROOM TEMPERATURE SENSOR

- The room temperature sensors are equipped in the indoor unit and the wireless remote controller.
  One of two sensors works.
- The room temperature sensor is set to the indoor unit side at the shipment from the factory.
 To select the sensor in the remote controller, push the SENSOR button (Right figure) inside of the remote controller cover and check " 👆 " disappears from LCD.

NOTE

If the room temperature data from the remote controller is not transmitted to the unit for 10 minutes or more, the sensor at indoor unit side is automatically selected even if the sensor at the remote controller side is selected.
Fix the remote controller toward the unit as possible.


Sensor button
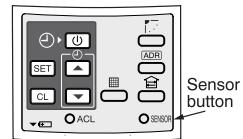
6 HOW TO SET THE ADDRESS SWITCH

- When the multiple signal receiving units are installed in the same room, an address can be set to prevent cross communication.
- When replacing the battery and pushing ACL button, the address of the remote controller becomes [ALL] and the signal receiving unit is enabled to receive signal regardless of setting of address switch of the operation section.
- For selecting of the remote controller address, refer to Owner's Manual.
- Change the address of the signal receiving unit by removing screws of P.C. board cover of the signal receiving unit.

  After then, fix the cover with screws using a clamp.

Display of remote controller address	Address ALL	Address 1	Address 2	.....	Address 6
Address switch position of signal receiving unit	*Address switch of signal receiving unit can be set any position.	ｱﾄﾞﾚｽ 1 2 3 4 5 6	ｱﾄﾞﾚｽ 1 2 3 4 5 6	.....	ｱﾄﾞﾚｽ 1 2 3 4 5 6

7 SLIDE SWITCH

- Check the slide switch in the battery box of the remote controller is set to [S] / [A] at shipment from the factory.
  Do not change the setting.

Select of operation mode set to A.

Select of louver indication set to S.
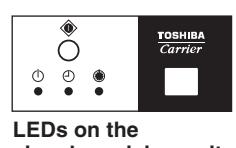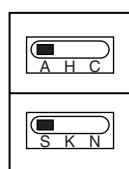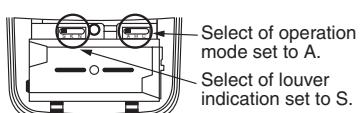
LEDs on the signal receiving unit

- ● : Off
- ☼ : Blinking (at intervals of 0.5 sec.)

8 SELF-DIAGNOSIS TABLE AND MEASURES

| Lamp indication	Cause	Measures
⏻ ● 🕐 ● ☀ ● No indication even if the remote controller is operated.	Power supply is not turned on. Miscabling between signal receiving unit and indoor unit	Check cable connection and correct it.
⏻ ☼ 🕐 ● ☀ ●	Defective connection between signal receiving unit and indoor unit	
⏻ ● 🕐 ● ☀ ☼	Miscabling or defective connection between indoor and outdoor units	
⏻ ☼ 🕐 ● ☀ ☼ Blinks alternatively	Protective device of outdoor unit works.	Check outdoor unit.
⏻ ● 🕐 ☼ ☀ ☼ Blinks alternatively	Protective device of indoor unit works.	Check indoor unit.

9 HOW TO SET UP FOR THE HIGH CEILING

- When the height of ceiling to be installed with a filter exceeds 11' 6" (3.5m), tap-up of DC fan is required.
  Tap-up of DC fan can be set at No.2 (Tap 1) and No.4 (Tap 2) of DIP switch [S003] on the signal receiving unit P.C. board.
  The signal receiving unit P.C. board appears by removing screws at the rear side of the signal receiving unit and the rear cover.

**[S003] No.2 (Tap 1) and
[S003] No.4 (Tap 2) are used.**

Setup for high ceiling

|	[S003] No.2 (Tap 1)	[S003] No.4 (Tap 2)	Installable height of ceiling
Standard (At shipment)	OFF	OFF	11' 6" (3.5m)
Type 1	OFF	ON	13' 1" (4.0m)
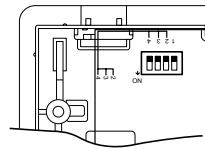
NOTE

Never set ON to DIP switch [S003] No.1 (TEST RUN). (A TEST RUN is carried out on the remote controller.)
(For the TEST RUN, refer to the Installation manual attached to the indoor unit.)

10 HOW TO HANDLE THE REMOTE CONTROLLER

- **In case using remote controller mounting to the wall, etc.**
  Check a signal is received correctly by pushing ( ) button at the position to be fixed.

- **Replacement of battery**
  1. Holding the both ends of the cover and remove it by sliding downward.
  2. Correctly insert 2 AAA alkali batteries matching + and - polarities with indications.
  3. Push ACL button with something tipped and attach the cover.

Mounting screw
Truss tapping
Ø0.16" × 0.63"
(M4 × 16mm)

Put on.
1

Push.
2

Cover   ACL button

- To take off remote controller, pull it toward you.
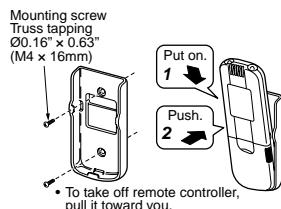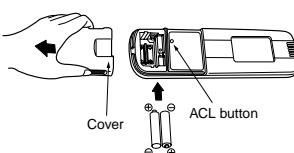
11 CAUTIONS FOR INSTALLATION OF THE REMOTE CONTROLLER

- To operate the remote controller by fixing it to the wall, etc. with a remote controller holder, turn on the fluorescent lamp, operate the remote controller at the position to be fixed, check the air conditioner normally operates, and then mount it.
- When the room temperature is sensed by the remote controller, mount the remote controller paying attention to the following items.
  - Place not exposed directly to cold or hot wind.
  - Place not exposed directly to the sunlight.
  - Other places where the remote controller is not influenced.

12 EXPLANATION TO CUSTOMERS

- Hand over the "Owner's Manual" and "Installation Manuals" to the customer after installation works.
- Explain usage and maintenance of the remote controller according to "Owner's Manual".

13 TEST RUN

■ **Before TEST RUN**

- Before turning on the power supply switch, carry out the following procedure.
  1) Using 500V-megger, check 1MΩ or more exists between the terminal block 1 to 3 and the earth.
     If 1MΩ or less is detected, do not run the unit. Do not apply to the remote controller circuit.
  2) Check the valve of the outdoor unit being opened fully.
- To protect the compressor at activation time, leave power-ON for 12 hours or more be for operating.

■ **How to execute a TEST RUN**

Using the remote controller, operate the unit as usual.

For the procedure of the operation, refer to the attached Owner's Manual. A forced TEST RUN can be executed in the following procedure if the operation stops by thermo.-OFF. In order to prevent a serial operation, the forced TEST RUN is released after 60 minutes have passed and returns to the usual operation.

⚠ CAUTION

When the remote controller is used for the first time, it accepts an operation approx. 5 minutes after the power supply has been turned on. It is not a trouble, but is because the setup of the remote controller is being checked.

For the second power-ON time and after, approx. 1 minute is required to start the operation by the remote controller.

NOTE

Do not use the forced TEST RUN for cases other than the TEST RUN because it applies an excessive load to the devices.

Be sure to set the air speed to [🌀].

◆ **In case of wireless remote controller**

2, 7

2

3, 4, 5, 6
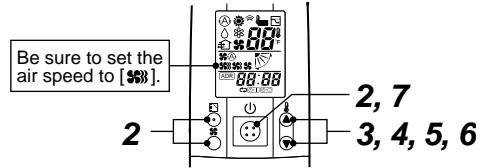
Procedure	Operation contents
1	Turn on power of the set. After installation, the operation is not accepted for 5 minutes when the power has been turned on at the first time, and 1 minute when the power has been turned on at the second time and after. Perform a test run after a specified time has passed.
2	Push [⏻] button on the remote controller, change the operation mode to [❄] or [☀] by using [🔲] button, and then change the air speed to [🌀] by [🌀] button.

3	Cooling test run	Heating test run
	Set temperature to 64°F (18°C) by using [🌡] button.	Set temperature to 86°F (30°C) by using [🌡] button.
4	Push [🌡] button to set temperature to 66°F (19°C) just after confirming the receiving sound "Pi".	Push [🌡] button to set temperature to 84°F (29°C) just after confirming the receiving sound "Pi".
5	Push [🌡] button to set temperature to 64°F (18°C) just after confirming the receiving sound "Pi".	Push [🌡] button to set temperature to 86°F (30°C) just after confirming the receiving sound "Pi".

6	Repeat the procedure *4* → *5* → *4* → *5*. After approx. 10 seconds, all the display lamps [⏻] (Green), [⏱] (Green), and [◉] (Yellow) of the wireless sensors flash, and the operation starts. If the lamps do not flash, repeat the procedure *2* and after.
7	When the TEST RUN has finished, push [⏻] button to stop the operation.