TOSHIBA Carrier **INSTALLATION MANUAL**

For Super Modular Multi System Air Conditioner

Snow hood (Right and Left side), Snow hood (Rear side)

Model name: TCB-SGMH2802KU-Y, TCB-SGMH2802KU-B, TCB-SGMH4502KU-B

Thank you for purchasing the “Snow hood” for TOSHIBA Carrier Air Conditioner. Before starting the installation work, please read this manual carefully and install the product properly.

Precautions for safety

- Carefully read these “Precautions for safety” before installation, and perform installation work safely.
- These precautions contain important information regarding safety. Please be sure to follow them.
- After completing the installation work, perform a test run to confirm that there are no abnormalities.
  In addition, ask the customer to keep this Installation Manual together with the air conditioner's Owner’s Manual and Installation Manual.

⚠ **WARNING**	Ask the authorized dealer or qualified installation professional to carry out the installation work. If you install it yourself and the work is performed improperly it may result in the snow hood being blown away by strong winds or may cause fire, electric shock, injury, or water leakage.
⚠ **CAUTION**	Installation must be carried out thoroughly and in accordance with this Installation Manual. Improper installation may result in leakage of refrigerant gas or injury.

Precautions for installation

When installing the unit in a region where snowfall is expected, consider how snow cover will affect it. Raise the foundation or install a platform (higher than the expected snow cover) on which to mount the unit, and fix the platform securely with anchor bolts.

⚠CAUTION

- Install the snow hood with consideration of seasonal winds.
- When installing the snow hood, do not perform installation or drilling at any points other than at the embossed points or where there are already pre-drilled holes on the outdoor unit’s air outlet, side plate, or struts, and do not use screws other than those specified. Doing so may cause damage to the heat exchanger or failure of electric or electronic parts.
- Be careful not to damage the fins and pipes of the heat exchanger during installation work. Damage to the pipes may cause leakage of refrigerant gas.
- Remove any shavings produced during installation. Also, apply rust prevention treatment to the installation points. Residual shavings or untreated installation points may cause rust.
- If attaching a snow hood, remove the fin guard, as snow may accumulate in the heat exchanger.
- Tighten the screws used for temporary mounting firmly after installing the snow hood.
  If the screws are not tightened, strong winds may blow the snow hood off or cause abnormal noises.

REQUIREMENT

- Attaching a snow hood will alter the wind pressure on the unit itself. The required installation strength will naturally differ in strong winds, so please reconfirm the strength of the equipment anchor points.
- Avoid installing the unit and snow hood in such a way as would allow strong winds or seasonal winds to blow in from the opening of the hood. This will also adversely affect the operation of the equipment.
- Use (5) Drill screws to drill pilot holes at the embossed points. Use (4) S-TITE screws for mounting.
- (4) S-TITE screws should be tightened to a torque of 2.2 to 2.9 ft•lbs (3 to 4 N•m). If you continue tightening beyond this with an electric screwdriver, the screw thread will be crushed and you will no longer be able to tighten the screw.
- Since refrigeration cycle pipes and electric / electronic parts are located in close proximity on the inside of the product, avoid using an electric drill to make pilot holes. If use of an electric drill is unavoidable, use a 0.2" (4.7 mm) diameter drill bit and mark it at a point 0.4" (10 mm) from the drill tip, such as by wrapping plastic tape around it, and take care not to drill more than 0.4" (10 mm) into the product.
- Use the screws included with the product for installation. If use of screws other than those provided is unavoidable, use screws of the same length as those specified for each location.
- During installation work, wear protective gear to avoid sustaining cuts on the edges of the sheet metal.
- If a fin guard is attached to the product, remove the fin guard before attaching the snow hood.

Specifications

Model name	Composition
TCB-SGMH2802KU-Y	(1) Right and Left side of intake port: 2
TCB-SGMH2802KU-B	(2) Rear side of intake port: 1
TCB-SGMH4502KU-B	(3) Rear side of intake port: 1

Snow hood painting specifications: Acrylic paint or powder coating (Color: Silky Shade Munsell No. 1Y8.5/0.5)

Component parts

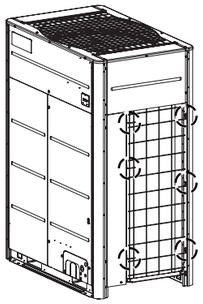
(Includes the following parts)

No.	Part name	Model name	TCB-		
			SGMH2802KU-Y	SGMH2802KU-B	SGMH4502KU-B
(1)	Right and Left side of intake port	Side plate R	1	-	-
		Upper plate	1	-	-
		Mid plate	1	-	-
		Lower plate	1	-	-
		Side plate L	1	-	-
(2)	Rear side of intake port	Side plate R	-	1	-
		Upper plate	-	1	-
		Mid plate	-	1	-
		Lower plate	-	1	-
		Side plate L	-	1	-
(3)	Rear side of intake port	Side plate R	-	-	1
		Upper plate	-	-	1
		Mid plate	-	-	1
		Lower plate	-	-	1
		Side plate L	-	-	1
(4)	S-TITE screws	(0.2" × 0.6" L) with nylon washer	33 (3 spares)	35 (4 spares)	36 (4 spares)
(5)	Drill screws For pilot hole drilling	(0.2" × 0.5" L)	2	2	2
(6)	Installation Manual	This manual	1	1	1

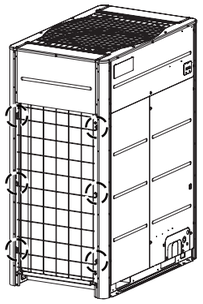
Installation procedure

Preparations before installation procedure

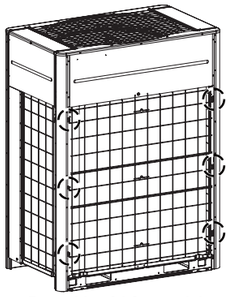
- If a Fin guard is attached to the product, remove the Fin guard before attaching Snow hood to prevent snow from accumulating on the heat exchanger. After removing the fin guard mounting screws, be sure to reattach all screws to the product.
- The illustration below shows the 51 inches width type, but the fin guard mounting position is the same for the 39 inches width type, except for the difference in the width length.



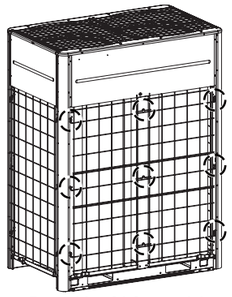
Right side of 1 fan model
(6 mounting screws)



Left side of 1 fan model
Both sides of the 2 fan model
(6 mounting screws)



Rear side of 1 fan model
(6 mounting screws)



Rear side of 2 fan model
(9 mounting screws)

Installation at the (1) Right and Left side of intake port

1 **At the embossed points on the side of the outdoor unit (except for the top 3 points), use (5) Drill screws to drill pilot holes in 12 places (6 on the left and 6 on the right). Be sure to remove any shavings produced when drilling pilot holes and apply rust prevention treatment to the installation points.**

2 **Attach the right Side plate R and Side plate L to the sides of the outdoor unit using (4) S-TITE screws in 12 places (6 on each side).**
* When installing the side plate, it can be temporarily mounted by inserting the (4) S-TITE screws halfway into the 2nd and 3rd holes from the upper portion of the pilot holes. (See Part A.)

3 **Attach the lower plate to the Side plate R and Side plate L using (4) S-TITE screws in 6 places.**
* When installing the lower plate, it can be temporarily mounted by inserting the (4) S-TITE screws halfway into the 2nd hole from the bottom of the Side plate R and Side plate L. (See Part B.)

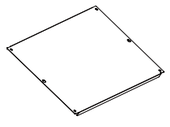
4 **Attach the mid plate to the Side plate R and Side plate L using (4) S-TITE screws in 4 places at the bottom left, bottom right, and middle.**
* When installing the mid plate, it can be temporarily mounted by inserting the (4) S-TITE screws halfway into the 5th hole from the bottom of the Side plate R and Side plate L. (See Part B.)

5 **Attach the upper plate to the Side plate R and Side plate L and the mid plate using (4) S-TITE screws in 8 places.**
* When installing the upper plate, it can be temporarily mounted by inserting the (4) S-TITE screws halfway into the two points on the upper Side plate R and Side plate L. (Detail of Part C)

* After installation, make sure that the mounting screws (including temporary mounting screws) are firmly tightened.
* The diagram shows the right side intake port. The left side intake port is installed in the same way.

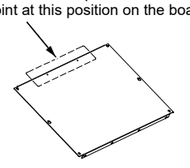
<Since the lower plate and mid plate have similar shapes, exercise care when installing them.>

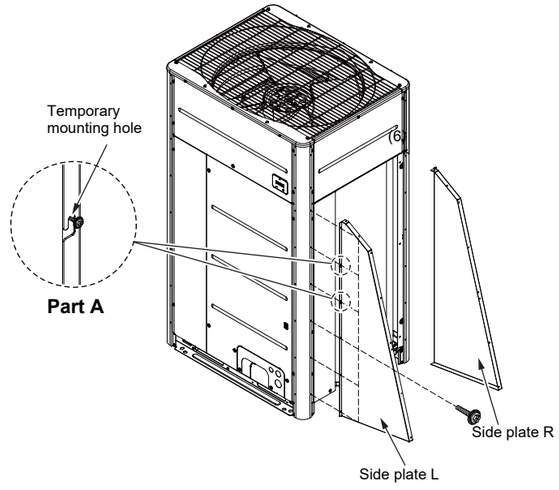
Lower plate



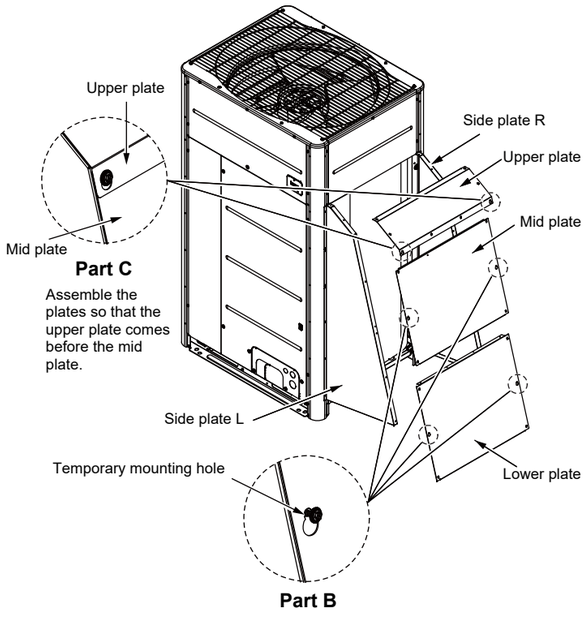
Mid plate

*The difference in shape is that there is a screw fixing point at this position on the board.





Part A



Part B

Part C

Assemble the plates so that the upper plate comes before the mid plate.

Installation at the (2) Rear side of intake port and (3) Rear side of intake port

1 **At the embossed points on the back of the outdoor unit (except for the top 3 points), use (5) Drill screws to drill pilot holes in 12 places (6 on the left and 6 on the right). Be sure to remove any shavings produced when drilling pilot holes and apply rust prevention treatment to the installation points.**

2 **Attach the Side plate R and Side plate L to the back of the outdoor unit using (4) S-TITE screws in 12 places (6 on each side).**
* When installing the side plate, it can be temporarily mounted by inserting the (4) S-TITE screws halfway into the 2nd and 3rd holes from the upper portion of the pilot holes. (See Part D.)

3 **Attach the lower plate to the Side plate R and Side plate L using (4) S-TITE screws in 6 places.**
* When installing the lower plate, it can be temporarily mounted by inserting the (4) S-TITE screws halfway into the 2nd hole from the bottom of the Side plate R and Side plate L. (See Part E.)

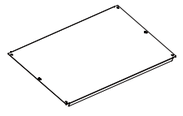
4 **Attach the mid plate to the Side plate R and Side plate L using (4) S-TITE screws in 4 places at the bottom left, bottom right, and middle.**
* When installing the mid plate, it can be temporarily mounted by inserting the (4) S-TITE screws halfway into the 5th hole from the bottom of the Side plate R and Side plate L. (See Part E.)

5 **Attach the upper plate to the Side plate R and Side plate L and mid plate using (4) S-TITE screws, either in 9 places for (2) Rear side of intake port or 10 places for (3) Rear side of intake port.**
* When installing the upper plate, it can be temporarily mounted by inserting the (4) S-TITE screws halfway into the two points on the upper left and right of the mid plate. (Detail of Part F)

* After installation, make sure that the mounting screws (including temporary mounting screws) are firmly tightened.

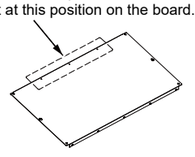
<Since the lower plate and mid plate have similar shapes, exercise care when installing them.>

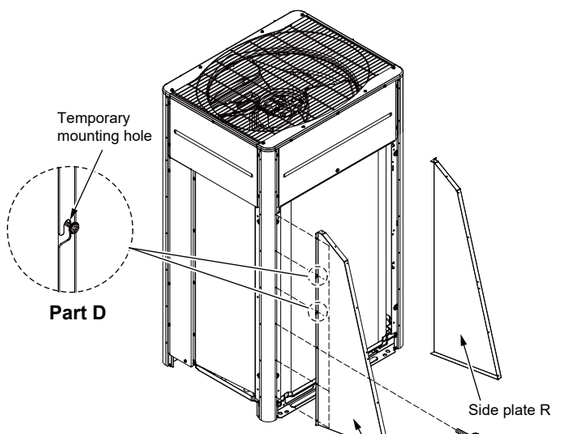
Lower plate



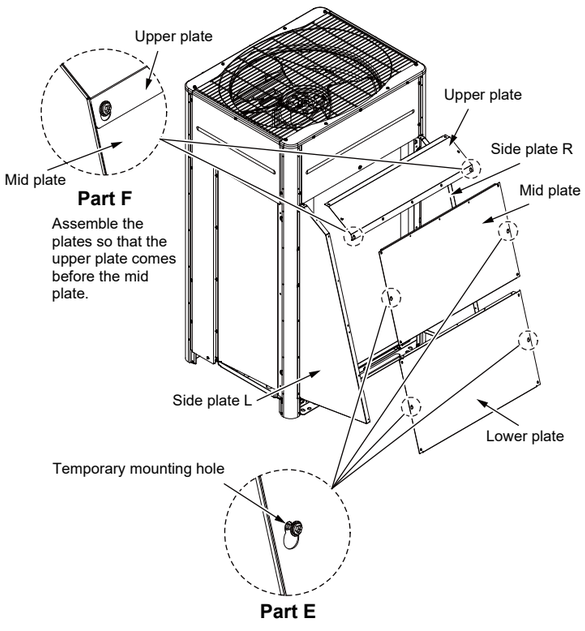
Mid plate

*The difference in shape is that there is a screw fixing point at this position on the board.





Part D

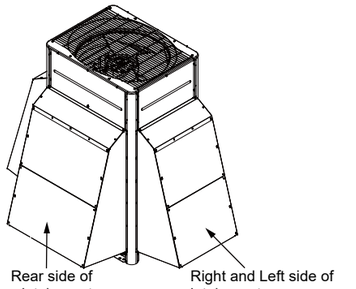


Part F

Assemble the plates so that the upper plate comes before the mid plate.

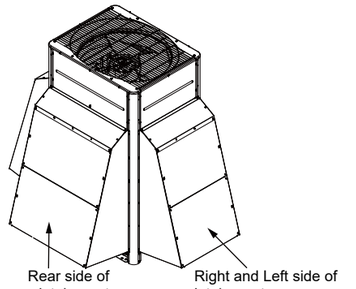
Part E

Installed unit diagrams



Rear side of intake port (TCB-SGMH2802KU-B)
Right and Left side of intake port (TCB-SGMH2802KU-Y)

39 inches width type



Rear side of intake port (TCB-SGMH4502KU-B)
Right and Left side of intake port (TCB-SGMH2802KU-Y)

51 inches width type

Confirmation of installation work

After completing the installation work, perform a test run to confirm that there are no abnormalities.