

Option adaptor Installation Manual

SBP011Z

TOSHIBA INDUSTRIAL PRODUCTS AND SYSTEMS CORPORATION

NOTICE

1. Make sure that this instruction manual is delivered to the end user of Option adaptor.
2. Read this manual before installing the Option adaptor. Keep it in a safe place for reference.
3. All information contained in this manual will be changed without notice.

Safety Precautions

The items described in the instruction manual and on the inverter itself are very important so that you can use safely the inverter, prevent injury to yourself and other people around you as well as to prevent damage to property in the area. Thoroughly familiarize yourself with the symbols and indications shown below and then continue to read the manual. Make sure that you observe all warnings given.

Limitation of use

<b>WARNING</b>	
 Prohibited	<ul style="list-style-type: none"> <li>• Never use the option with any device other than VF-AS3 inverter. This will result in accident.</li> </ul>

Handling in general

<b>WARNING</b>	
 Disassembly prohibited	<ul style="list-style-type: none"> <li>• Never disassemble, modify or repair the option. This can result in electric shock, fire or injury. For repairs, call your Toshiba distributor.</li> </ul>
 Prohibited	<ul style="list-style-type: none"> <li>• Do not put or insert any kind of objects into the option (electrical wire cuttings, rods, wires etc). This can result in damage or fire.</li> <li>• Do not splash water or any other fluid over the option, do not touch the option with wet hands. This can result in damage or fire.</li> <li>• Do not apply shock (falling, etc.) on the option. This can result in damage or malfunction.</li> <li>• Do not touch the connector to inverter (refer to the outline drawing). This can result in damage or malfunction.</li> </ul>
 Mandatory action	<ul style="list-style-type: none"> <li>• Turn off the power immediately in case of abnormalities such as smoke, abnormal odor, noise. Neglect of these conditions can result in fire. For repairs, call your sales distributor.</li> <li>• Operate under the environmental conditions prescribed in this manual. Operations under any other condition can result in damage or malfunction.</li> </ul>

Disposal

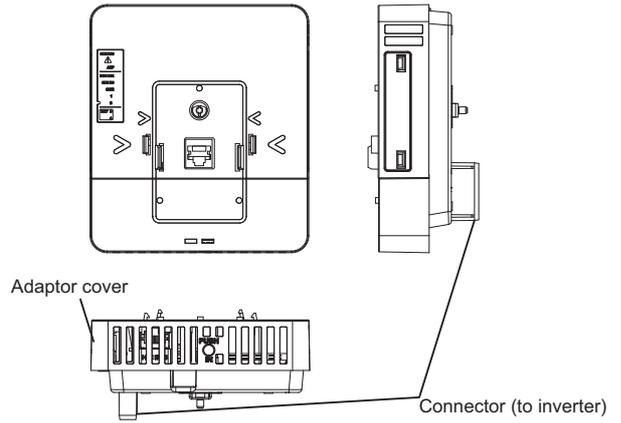
<b>CAUTION</b>	
 Prohibited	<ul style="list-style-type: none"> <li>• If you dispose of the option, have it done by a specialist in industrial waste disposal*.</li> <li>• If you dispose of the option by yourself, this can result in injury.</li> <li>• (* Persons who specialize in the processing of waste and known as "Industrial Waste Product Collectors and Transporters" or "Industrial Waste Disposal Persons." Please observe any applicable law, regulation, rule or ordinance for industrial waste disposal.</li> </ul>

Wiring - Installation

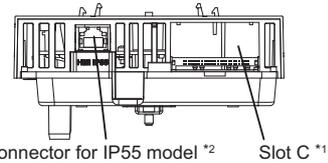
<b>WARNING</b>	
 Prohibited	<ul style="list-style-type: none"> <li>• Do not use the option if it is damaged or any part of it is missing. Operating the defective product can result in electric shock or fire. For repairs, call your sales distributor.</li> <li>• Do not connect any option other than applicable options to the Option adaptor.</li> <li>• This can result in malfunction or accident.</li> <li>• Do not pull the cable and the connector connected to the option. This can result in damage or malfunction.</li> <li>• Do not connect LAN cable to the option. This can result in damage or malfunction.</li> </ul>
 Mandatory action	<ul style="list-style-type: none"> <li>• The following steps must be performed before wiring and installation. Turn off all input power, wait at least 15 minutes, and confirm that the charge lamp of inverter is no longer lit. If steps above are not properly performed, this can result in electric shock.</li> <li>• Never perform wiring and installation with the external power supply for control terminals ON. This will result in damage of option.</li> </ul>
 Be Grounded	<ul style="list-style-type: none"> <li>• Ground of the option must be connected securely. If the ground is not securely connected, it could lead to malfunction.</li> </ul>

Outline drawing and terminals

Outline drawing



Bottom view without adaptor cover;



- \*1: slot A, B in control block and slot C in Option adaptor.
- \*2: For the connection of RJ45 connector, refer to IP55 instruction manual.

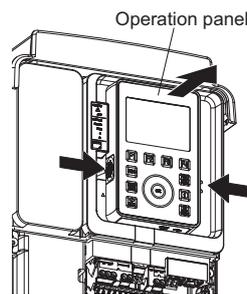
Mounting, wiring and removing

<b>WARNING</b>	
 Mandatory action	<ul style="list-style-type: none"> <li>• The mounting/removing of option must be performed without supplying power (Turn off all input power, wait at least 15 minutes, confirm that the charge lamp of inverter is no longer lit). The external power supply for control terminals should also be removed. The inverter and option can be damaged with power supply ON</li> </ul>

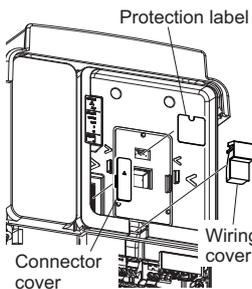
After mounting Option adaptor, the depth of inverter is increased by 43.5mm

Mounting of option

1. Remove the front covers and other parts in advance. Covers to be removed at the time of wiring vary depending on the frame size of inverter.

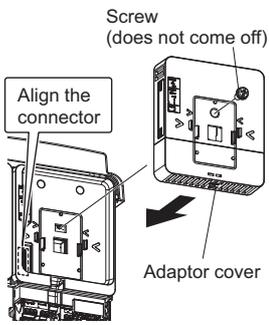


2. While pressing the PUSH part located on both right and left sides of the operation panel, pull the operation panel straight upward. The operation panel is connected to the unit with the connector on the center of back side.

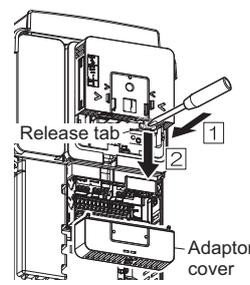


3. Remove the protection label.
4. Remove the connector cover. Store the removed parts so as not to be lost.
5. Remove the option wiring cover. The option wiring cover can be removed by fingers. Store the removed parts so as not to be lost.

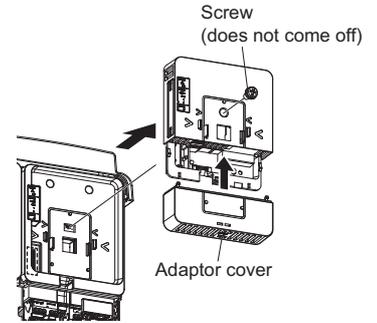




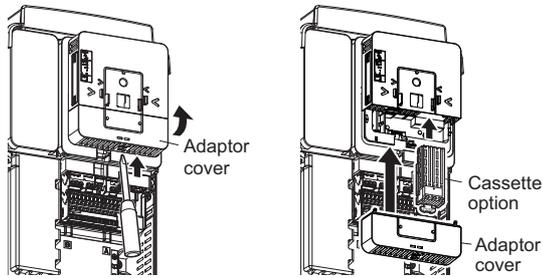
- Match the position of the Option adaptor connector with the inverter, and mount the Option adaptor. Store the removed parts so as not to be lost.
- Tighten the screw. This screw is used to connect ground for option.



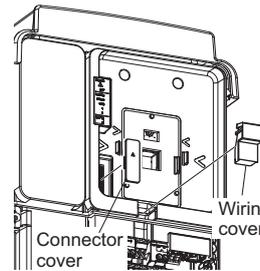
- While pressing the release tab down, pull the cassette option to remove from slot C.



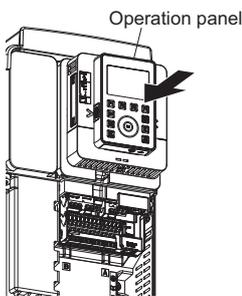
- Remove the Option adaptor. Mount the adaptor cover removed before.



- Insert a screwdriver, etc. to the lock removal hole of the adaptor cover to push and unlock, and remove the adaptor cover upward. In this state, a cassette option can be inserted to slot C. Using the groove of removed wiring cover, perform wiring of the cassette option before inserting the option, and fix the wiring by the attached cable tie.



- While pressing the PUSH part located on both right and left sides of the operation panel, pull the operation panel straight upward. The operation panel is connected to the unit with the connector on the center of back side.

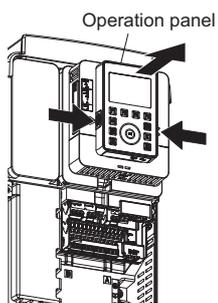


- After wiring is complete, mount the adaptor cover on the Option adaptor. Be cautious that the wiring of the cassette option does not get pinched by the adaptor cover. The removed operation panel can be installed on top surface of the Option adaptor.

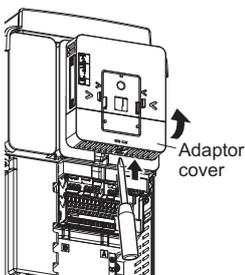
- Mount the removed front covers.

■ Removing of option

- Remove the front covers and other parts in advance. Covers to be removed at the time of wiring vary depending on the frame size of inverter.



- While pressing the PUSH part located on both right and left sides of the operation panel, pull the operation panel straight upward. The operation panel is connected to the unit with the connector on the center of back side.



- Insert a screwdriver, etc. to the lock removal hole of the Option adaptor cover to push and unlock, and remove the adaptor cover of the Option adaptor.

- Remove wiring to the cassette option.

Product Specification

Item	Specification
Type form	SBP011Z
Applicable model	VF-AS3
Applicable option	Please refer to VF-AS3 instruction manual (E6582062).
Operation Environment	Operating temperature: -10 to 50°C (Inverter operating temperature), in accordance with inverter for other environment.
Storage temperature	-25 to 70°C

Warranty

Any part of the Option adaptor that is proved to be defective will be exchanged under the following conditions:

- This warranty applies only to the Option adaptor unit.
- Any part of the Option adaptor which fails or is damaged under normal use within twelve months from the date of delivery will be exchanged free of charge.
- For the following kinds of failure or damage, the exchange cost shall be borne by the customer even within the warranty period.
  - Failure or damage caused by improper or incorrect use or handling, or unauthorized repair or modification of the option.
  - Failure or damage caused by falling or an accident during transportation after the purchase.
  - Failure or damage caused by fire, salty water or wind, corrosive gas, earthquake, storm or flood, lightning, abnormal voltage supply, or other natural disasters.
  - Failure or damage caused by the use of the Option adaptor for any purpose or application other than the intended one.
- All expenses incurred by Toshiba for on-site services shall be charged to the customer, unless a service contract is signed beforehand between the customer and Toshiba, in which case the service contract has priority over this warranty.