

INVERTER Front cover for plug-in option FR-A7A E kit cover SC INSTRUCTION MANUAL

Thank you for choosing this Mitsubishi Electric Inverter plug-in option.

This Instruction Manual gives handling information and precautions for use of this equipment. Incorrect handling might cause an unexpected fault. Before using the equipment, please read this manual carefully to use the equipment to its optimum.

Please forward this manual to the end user.

SAFETY INSTRUCTIONS



While power is ON or for some time after power-OFF, do not touch the inverter as it will be extremely hot. Doing so can cause burns.



The product must be transported in correct method that corresponds to the weight. Failure to do so may lead to injuries. Special attention must be paid to the edges of the product.



Foreign conductive objects must be prevented from entering the inverter. That includes screws and metal fragments or other flammable substances such as oil.

PRE-OPERATION INSTRUCTIONS

1.1 Unpacking and Product Confirmation

Take the front cover for plug-in option out of the package and confirm that the product is as you ordered and intact. This product is a front cover for plug-in option dedicated for the FR-E700-SC series (Safety stop function model). This product is used to mount the plug-in option FR-A7AX (16-bit digital input function), FR-A7AY (Analog/Digital output function), or FR-A7AR (Relay output function) to the inverter.

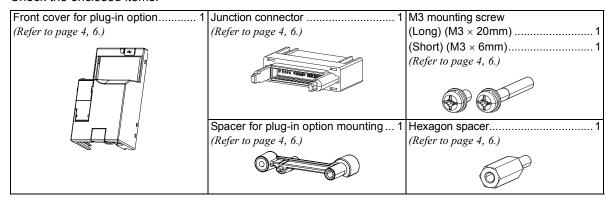
When mounting this product to the inverter, use the following items: the plug-in option (FR-A7AX, FR-A7AY, or FR-A7AR) and the enclosed items of this product.

—— CAUTION ——

- Instead of the standard inverter front cover, fit this front cover of the plug-in option for the operation.
- The mounting screws supplied with the plug-in option (FR-A7AX, FR-A7AY, or FR-A7AR) are not used.

1.1.1 Product confirmation

Check the enclosed items.



2.1 Installation Procedure

The FR-E700-SC (safety stop function model) series has one connection connector for the plug-in option.

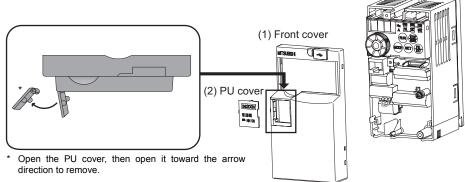
= CAUTION =

- Always perform wiring to the main circuit terminals and control circuit terminals before mounting the plugin option. Wiring cannot be performed after mounting the plug-in option.
- When mounting the plug-in option, do not let wires get caught in the plug-in option or the spacer for option mounting. If a wire gets caught, the inverter and the plug-in option may be damaged.
- · When the inverter cannot recognize that the plug-in option is mounted due to improper installation, etc.,
 - " [(option alarm) is displayed.
- · Take care not to drop a mounting screws during mounting and removal.
- Pull out the plug-in option straight to remove. Otherwise, the connector may be damaged.

REMARKS

Bcause the voltage class, model name and serial number (only voltage class is labeled for FR-E720-5.5K (FR-E720-240), FR-E740-5.5K (FR-E740-120) or higher) are written on the PU cover, replace the PU cover of the plugin option with the removed PU cover of the inverter.

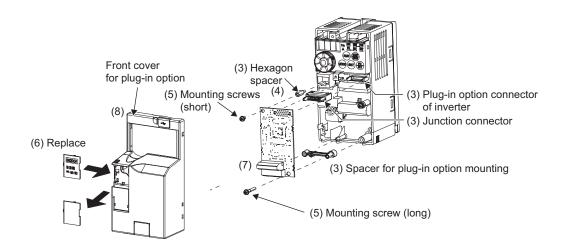
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- For FR-E720-3.7K (FR-E720-175) or lower and FR-E740-7.5K (FR-E740-170) or lower
- Remove the front cover from the inverter. (For removing the front cover, refer to the FR-E700 Instruction Manual.)
- (2) Remove the PU cover from the front cover. Open the PU cover with a driver, etc. and remove it in the direction of arrow as shown below.



- (3) Fit the spacer for plug-in option mounting, the hexagon spacer, and the junction connector into their designated positions shown in the diagram on the next page. Fit the junction connector along the guide of the connector of the inverter and insert it as far as it goes.
- (4) Fit the connector of the plug-in option along the guide of the junction connector and insert it as far as it goes.
- (5) Fix the plug-in option securely by using the supplied mounting screw (short) to the upper screw hole and the other supplied mounting screw (long) to the lower screw hole of the plug-in option. If the screw holes do not line up, the connector may not have been plugged properly. Check for loose plugging.
- (6) Remove the PU cover provided on the front cover for plug-in option and mount the other PU cover, which was removed in (2).



- (7) Loosen the terminal screws and insert the wires into the terminals. After that, fasten the terminal screws to the recommended tightening torque. (Refer to the Instruction Manual of the option for the tightening torque.)
- (8) After wiring of the plug-in option has been completed, mount the front cover for the plug-in option to the inverter.



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- For FR-E720-5.5K (FR-E720-240) or higher and FR-E740-11K (FR-E740-230) or higher
- (1) Remove the front covers 1 and 2 from the inverter. (For removing the front cover, refer to the FR-E700 Instruction Manual.)
- (2) Remove the PU cover from the front cover 2. For removing the PU cover, refer to page 4.
- (3) Mount the front cover 1 to the inverter.
- (4) Fit the spacer for plug-in option mounting, the hexagon spacer, and the junction connector into their designated positions shown in the diagram on the next page. Fit the junction connector along the guide of the connector of the inverter and insert it as far as it goes.
- Front cover 1

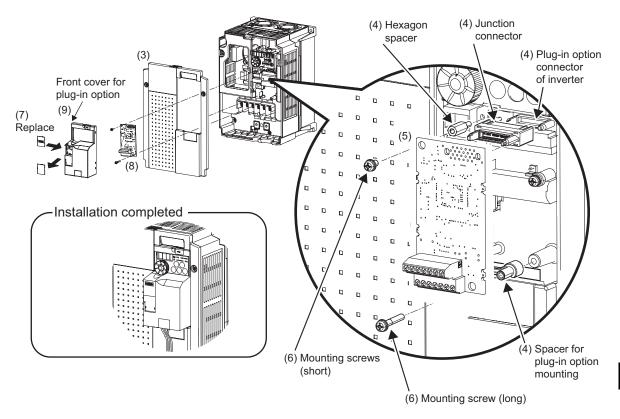
 (1)

 Front cover 2

 (2)

 PU cover
- (5) Fit the connector of the plug-in option along the guide of the junction connector and insert it as far as it goes.
- (6) Fix the plug-in option securely by using the supplied mounting screw (short) to the upper screw hole and the other supplied mounting screw (long) to the lower screw hole of the plug-in option. If the screw holes do not line up, the connector may not have been plugged properly. Check for loose plugging.
- (7) Remove the PU cover provided on the front cover for plug-in option and mount the other PU cover, which was removed in (2).
- (8) Loosen the terminal screws and insert the wires into the terminals. After that, fasten the terminal screws to the recommended tightening torque. (Refer to the Instruction Manual of the option for the tightening torque.)
- (9) Mount the front cover for plug-in option to the inverter.



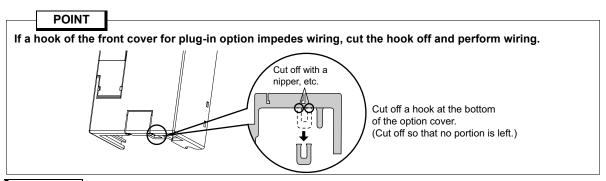




2.2 Wiring

CAUTION —

• Always perform wiring to the main circuit terminals and control circuit terminals before mounting the plugin option. Wiring cannot be performed after mounting the option.



REMARKS

• The protective structure (JEM1030) is the open type (IP00).

MEMO

*The manual number is given on the bottom left of the back cover.

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INVERTER

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