MITSUBISHI ELECTRIC

GRAPHIC OPERATION TERMINAL

GOT3000

GOT3000 Series
Extension Interface Converter Unit
User's Manual

-GT37-IF2000

Safety precautions

Always read the precautions before using this product.

Also read this manual and the relevant manuals mentioned in this manual carefully, and use the product properly while paying full attention to safety.

Note that the precautions in this manual apply only to this product.

The safety precautions are divided into the following levels: ⚠ WARNING and ⚠ CAUTION.

⚠ **WARNING**	**Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.**
⚠ **CAUTION**	**Indicates that incorrect handling may cause hazardous conditions, resulting in minor or moderate injury or property damage.**

Note that failure to observe ⚠ CAUTION may lead to a serious accident depending on the circumstances.

Make sure to observe both warnings and cautions to ensure personal safety.

Ensure that this manual is easily accessible to all users of this product.

[Design precautions]

⚠WARNING

- To check the operating status of each station if a network communication error occurs, refer to the manual for the interface module used.
  Not doing so may cause an accident due to false output or malfunction.
- To maintain the security (availability, integrity, and confidentiality) of the GOT and the system against unauthorized access, DoS*1 attacks, computer viruses, and other cyberattacks from unreliable networks and devices via network, take appropriate measures such as firewalls, virtual private networks (VPNs), and antivirus solutions.
  Mitsubishi Electric shall have no responsibility or liability for any problems involving GOT trouble and system trouble by unauthorized access, DoS attacks, computer viruses, and other cyberattacks.
  *1 DoS: A denial-of-service (DoS) attack disrupts services by overloading systems or exploiting vulnerabilities, resulting in a denial-of-service (DoS) state.
- Periodically check our vulnerability site, and if any vulnerabilities are found, upgrade the software and related components.
- Some failures of the GOT, communication unit or cable may keep the outputs on or off.
  Some failures of the touch panel may cause a malfunction of input objects such as a touch switch.
  Create an external monitoring circuit to check for output signals which may lead to a serious accident.
  Not doing so may cause an accident due to false output or malfunction.
- If a communication fault (including cable disconnection) occurs during monitoring on the GOT, communication between the GOT and PLC CPU is suspended and the GOT becomes inoperative.
  A system where the GOT is used should be configured to perform any significant operation to the system by using the switches of a device other than the GOT on the assumption that a GOT communication fault will occur.
  Not doing so may cause an accident due to false output or malfunction.

[Design precautions]

⚠CAUTION

- Do not run control line cables and communication cables together with or near main circuit cables, power line cables, or other cables.
  Run these cables separately from such wiring and keep them a minimum of 100 mm apart.
  Not doing so may cause a malfunction due to noise.
- Turn on the controllers and the network devices to be ready for communication before they communicate with the GOT.
  Not doing so may cause a communication error on the GOT.

[Mounting precautions]

⚠WARNING

- Before installing/removing the communication unit or the option unit on/from the GOT, shut off all phases of the external power supply used by the system.
  Not doing so may result in an electric shock, product damage or malfunction.

⚠CAUTION

- Use the GOT in the environment that satisfies the general specifications described in the User's Manual (Hardware) of the GOT used.
  Not doing so can cause an electric shock, fire, malfunction, or product damage or deterioration.
- To install a communication unit or an option unit on the GOT, the extension interface converter unit must be installed onto the extension interface of the GOT.
  When installing the extension interface converter unit and a communication unit or an option unit, tighten the mounting screws within the specified torque range (0.36 N?m to 0.48 N?m) with a crosshead screwdriver No.2.
- Do not use or store the product in an environment subject to direct sunlight, rain, high temperatures, dust, high humidity, or frequent vibration.

[Wiring precautions]

⚠WARNING

- Before wiring, make sure to shut off all phases of the external power supply used by the system.
  Not doing so may result in an electric shock, product damage or malfunction.

⚠CAUTION

- Exercise care to avoid foreign matter such as chips and wire offcuts entering the unit.
  Not doing so can cause a fire, failure or malfunction.

[Startup/maintenance precautions]

⚠WARNING

- Do not touch the terminals while power is on.
  Close the terminal block cover before supplying power.
  Not doing so may cause an electric shock or malfunction.
- Before cleaning or terminal screw retightening, make sure to shut off all phrases of the external power supply.
  Not doing so may cause the unit to fail or malfunction.
  Undertightening may cause a short circuit or malfunction.
  Overtightening may cause a short circuit or malfunction due to damage to the screws or unit.

⚠CAUTION

- Do not disassemble or modify the unit.
  Doing so can cause a failure, malfunction, injury or fire.
- Do not touch the conductive and electronic parts of the unit directly.
  Doing so may cause a unit malfunction or failure.
- The cables connected to the unit must be run in ducts or clamped.
  Not doing so can cause the unit or cable to be damaged due to the dangling, motion or accidental pulling of the cables, or can cause a malfunction due to a cable connection fault.
- When unplugging the cable connected to the unit, do not hold and pull from the cable portion.
  Doing so can cause the unit or cable to be damaged or can cause a malfunction due to a cable connection fault.
- Do not drop the unit or subject it to strong shock.
  A unit damage may result.
- Before touching the unit, always touch grounded metals, etc. to discharge static electricity from human body, etc.
  Not doing so may cause the unit to fail or malfunction.
- Replace the extension unit cover when the extension unit is not in use.
  Not doing so can cause the unit to fail or malfunction due to static electricity.

[Disposal precautions]

⚠CAUTION

- Dispose of the product as industrial waste.
  When disposing of batteries, separate them from other wastes according to the local regulations.
  (For details on the battery directive in the EU member states, refer to the User's Manual (Hardware) of the GOT used.)

[Transportation precautions]

⚠CAUTION

- Since the unit is a precision device, avoid any impact that exceeds the general specifications described in the User's Manual (Hardware) of the GOT used during transportation.
  Not doing so may cause the unit to fail.
  Check if the unit operates correctly after transportation.
- Prevent the entry of halogens (including fluorine, chlorine, bromine, and iodine) contained in fumigants used for fumigating wood packaging materials, or a product failure may occur.
  Make sure that fumigant residues will not enter the product, or use an alternative (heat treatment or others) to fumigation.
  Before packing the product, disinfect wood packaging materials and eliminate insects from the materials.

Product application

(1) Mitsubishi graphic operation terminal ("the PRODUCT") shall be used in conditions;
i) where any problem, fault or failure occurring in the PRODUCT, if any, shall not lead to any major or serious accident;
and
ii) where the backup and fail-safe function are systematically or automatically provided outside of the PRODUCT for the case of any problem, fault or failure occurring in the PRODUCT.

(2) The PRODUCT has been designed and manufactured for the purpose of being used in general industries.
MITSUBISHI ELECTRIC SHALL HAVE NO RESPONSIBILITY OR LIABILITY (INCLUDING, BUT NOT LIMITED TO ANY AND ALL RESPONSIBILITY OR LIABILITY BASED ON CONTRACT, WARRANTY, TORT, PRODUCT LIABILITY) FOR ANY INJURY OR DEATH TO PERSONS OR LOSS OR DAMAGE TO PROPERTY CAUSED BY the PRODUCT THAT ARE OPERATED OR USED IN APPLICATION NOT INTENDED OR EXCLUDED BY INSTRUCTIONS, PRECAUTIONS, OR WARNING CONTAINED IN MITSUBISHI ELECTRIC USER'S, INSTRUCTION AND/OR SAFETY MANUALS, TECHNICAL BULLETINS AND GUIDELINES FOR the PRODUCT. ("Prohibited Application")
- Nuclear Power Plants and any other power plants operated by Power companies, and/or any other cases in which the public could be affected if any problem or fault occurs in the PRODUCT.
- Railway companies or Public service purposes, and/or any other cases in which establishment of a special quality assurance system is required by the Purchaser or End User.
- Aircraft or Aerospace, Medical applications, Train equipment, transport equipment such as Elevator and Escalator, Incineration and Fuel devices, Vehicles, Manned transportation, Equipment for Recreation and Amusement, and Safety devices, handling of Nuclear or Hazardous Materials or Chemicals, Mining and Drilling, and/or other applications where there is a significant risk of injury to the public or property.

Notwithstanding the above restrictions, Mitsubishi Electric may in its sole discretion, authorize use of the PRODUCT in one or more of the Prohibited Applications, provided that the usage of the PRODUCT is limited only for the specific applications agreed to by Mitsubishi Electric and provided further that no special quality assurance or fail-safe, redundant or other safety features which exceed the general specifications of the PRODUCTs are required. For details, please contact the Mitsubishi Electric representative in your region.

(3) Mitsubishi Electric shall have no responsibility or liability for any problems involving graphic operation terminal trouble and system trouble caused by DoS attacks, unauthorized access, computer viruses, and other cyberattacks.

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Manuals

The following table shows manuals relevant to this product.

Manual name	Manual number
GOT3000 Series User's Manual (Hardware)	SH-082591ENG

For the latest e-Manuals and PDF manuals, consult your local sales office.

Compliance with the EMC and Low Voltage Directives

To configure a system meeting the requirements of the EMC and Low Voltage Directives when incorporating the Mitsubishi GOT (EMC and Low Voltage Directives compliant) into other machinery or equipment, refer to "EMC and Low Voltage Directives" in the GOT3000 Series User's Manual (Hardware).
The CE mark, indicating compliance with the EMC and Low Voltage Directives, is printed on the rating plate of the GOT.

Standards

Compliance with the new China RoHS directive

根据“电器电子产品有害物质限制使用管理办法”进行标识。

Note: This symbol mark is for China only.

含有有害10物质的名称、含有量、含有部件

本产品中所含有的有害10物质的名称、含有量、含有部件如下表所示。

产品中有害物质的名称及含量

部件名称	有害物质					
	铅（Pb）	汞（Hg）	镉（Cd）	六价铬（Cr(VI)）	多溴联苯（PBB）	多溴二苯醚（PBDE）
电路板组件	×	○	○	○	○	○
树脂壳体、电缆、膜材	○	○	○	○	○	○
钣金部件、螺丝等金属部件	×	○	○	○	○	○

部件名称	有害物质			
	邻苯二甲酸二（2-乙基）己酯（DEHP）	邻苯二甲酸二正丁酯（DBP）	邻苯二甲酸丁苄酯（BBP）	邻苯二甲酸二异丁酯（DIBP）
电路板组件	○	○	○	○
树脂壳体、电缆、膜材	○	○	○	○
钣金部件、螺丝等金属部件	○	○	○	○

本表格依据SJ/T 11364的规定编制。

○：表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。

×：表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求

Reference standards based on Chinese standardized law

GB/T 15969.2

Packing list

Check that the following products are included:

Model	Product	Quantity
GT37-IF2000	Extension interface converter unit	1
	Mounting screws	5
	Insulation cover	1
	Before Using the Product	1

1 Specifications

The general specifications of the extension interface converter unit are the same as those of the GOT.
For the general specifications of the GOT, refer to the following.
GOT3000 Series User's Manual (Hardware)
The current consumption and weight are indicated below.

Item	Description
Internal current consumption	5VDC 0.09 A
Weight	0.11 kg (0.25lb)

Precautions

- Only one extension interface converter unit can be connected to the GOT.
- When the extension interface converter unit is installed on the GOT, the overall depth of both devices increases by 11.6 mm.

1.1 Connectable Extension Units

Only one of the following extension units can be connected to the extension interface converter unit.

Communication unit

Product	Model	Specifications
Serial communication unit	GT15-RS2-9P	RS-232 serial communication unit (D-sub 9-pin plug)
	GT15-RS4-9S	RS-422/485 serial communication unit (D-sub 9-pin socket)
	GT15-RS4-TE	RS-422/485 serial communication unit (Terminal block)
CC-Link IE TSN communication unit	GT25-J71GN13-T2	Unit for the local station (device station)
CC-Link IE Controller Network communication unit	GT15-J71GP23-SX	Normal station unit (optical loop)
CC-Link IE Field Network communication unit	GT15-J71GF13-T2	Unit for the intelligent device station
CC-Link communication unit	GT15-J61BT13	Intelligent device station unit CC-Link Ver. 2 compliant
Bus connection unit	GT15-QBUS	Q bus connection (1 channel) unit standard model
	GT15-QBUS2	Q bus connection (2 channels) unit standard model
	GT15-75QBUSL	Q bus connection (1 channel) unit slim model
	GT15-75QBUS2L	Q bus connection (2 channels) unit slim model
MELSECNET/H communication unit	GT15-J71LP23-25	Normal station unit (optical loop)
	GT15-J71BR13	Normal station unit (coaxial bus)

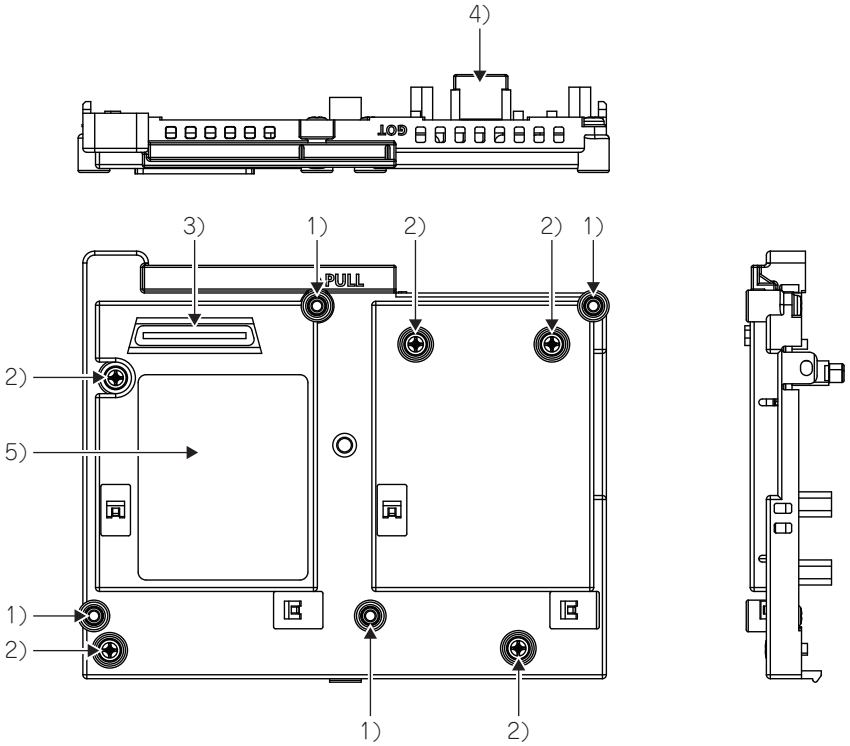
Option unit

Product	Model	Specifications
External I/O unit	GT15-DIO	For connecting an external I/O device and an operation panel (Positive common input, sink type output)
	GT15-DIOR	For connecting an external I/O device and an operation panel (Negative common input, source type output)

2 Part names and external dimensions

☞ Page 10 Part names
☞ Page 11 External dimensions

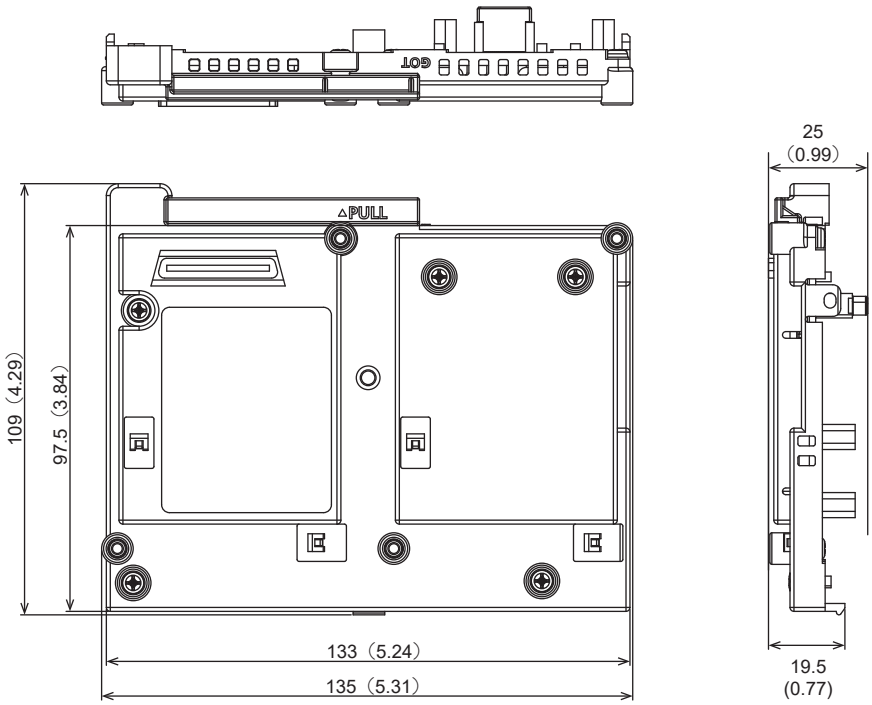
2.1 Part names



No.	Name	Description
1)	Extension unit fixing screw hole	For attaching the extension unit to the GOT
2)	Mounting screw	For attaching the extension interface converter unit to the GOT
3)	Extension interface (extension unit side)	For connecting an extension unit*1
4)	Extension interface (GOT side)	For connecting the GOT*2
5)	Rating plate	—

*1 This interface is connected SELV (Safety Extra Low Voltage) and LIM (Limited Energy Circuit) equipment.
*2 This interface is powered from a SELV (Safety Extra Low Voltage) and LIM (Limited Energy Circuit) compliant source.

2.2 External dimensions



Unit: mm (in.)

3 Installation procedure

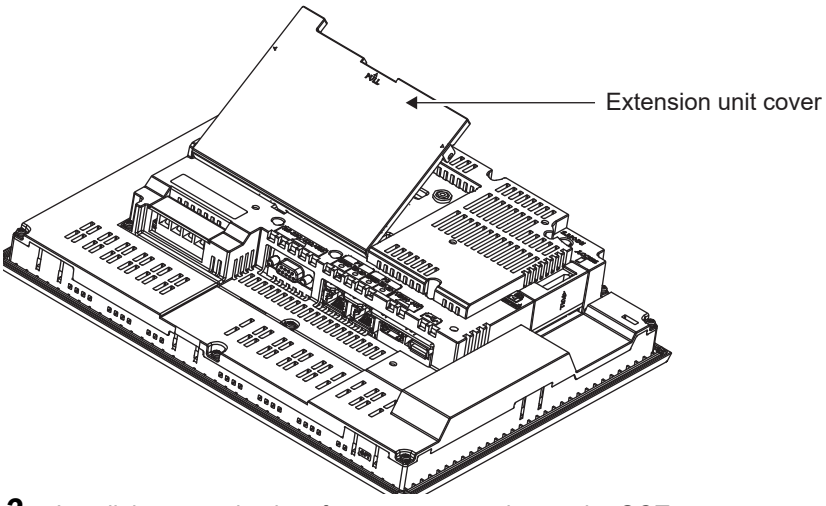
The following shows the procedure for installing the extension interface converter unit and an extension unit on the GOT.

☞ Page 12 Installing the extension interface converter unit
☞ Page 13 Installing an extension unit

3.1 Installing the extension interface converter unit

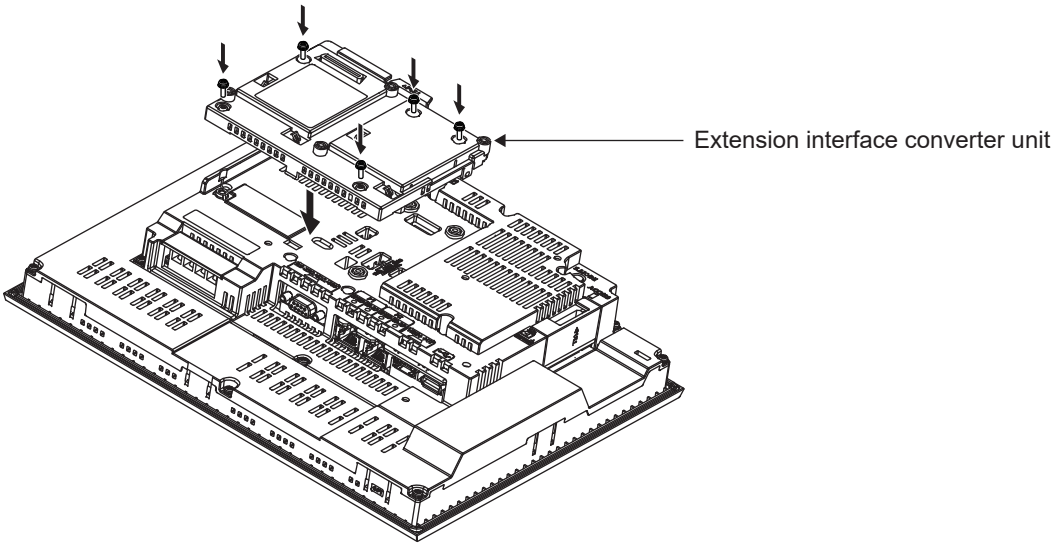
1. Make sure that the GOT power is off.

2. Remove the extension unit cover from the GOT.



3. Install the extension interface converter unit onto the GOT.

Tighten the five mounting screws of the extension interface converter unit within the specified torque range (0.36 N·m to 0.48 N·m).

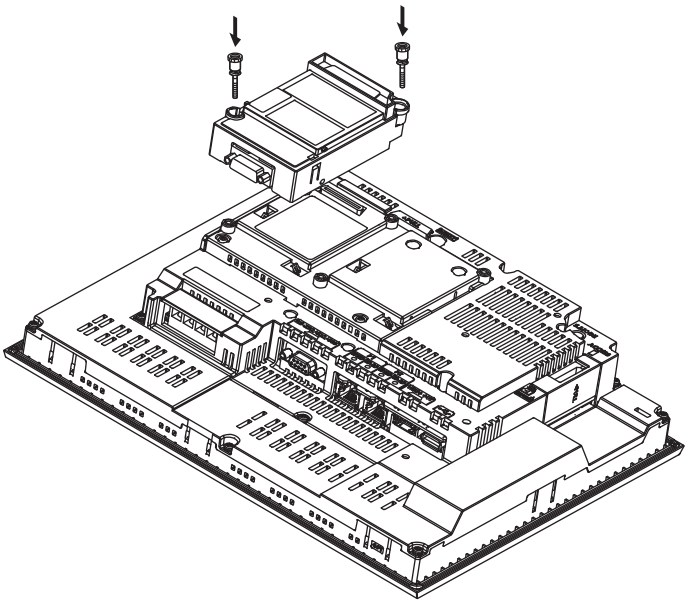


3.2 Installing an extension unit

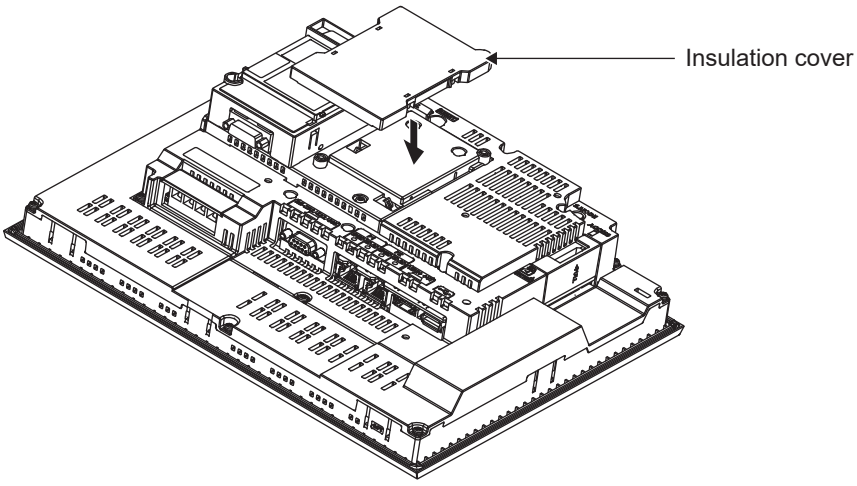
Only one extension unit can be connected to the extension interface converter unit.
The units specified in this chapter can be connected to the extension interface converter unit.
☞ Page 9 Connectable Extension Units

Installing a 1-channel extension unit

1. Align the extension unit with the extension interface converter unit.
2. Tighten the two mounting screws of the extension unit within the specified torque range (0.36 N·m to 0.48 N·m) to attach the unit.

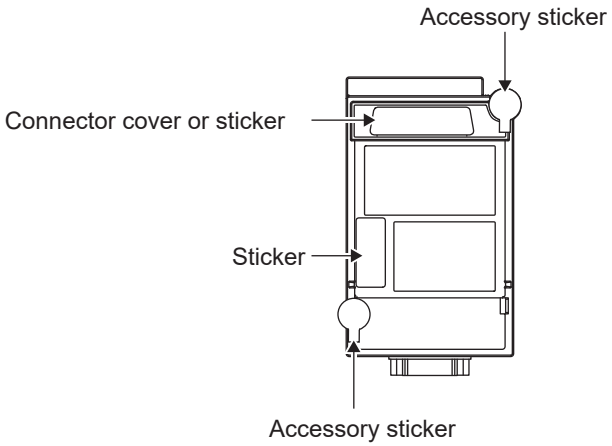


3. Install the supplied insulation cover to protect against static electricity.



4. Cover the mounting screws with the accessory stickers to protect against static electricity.

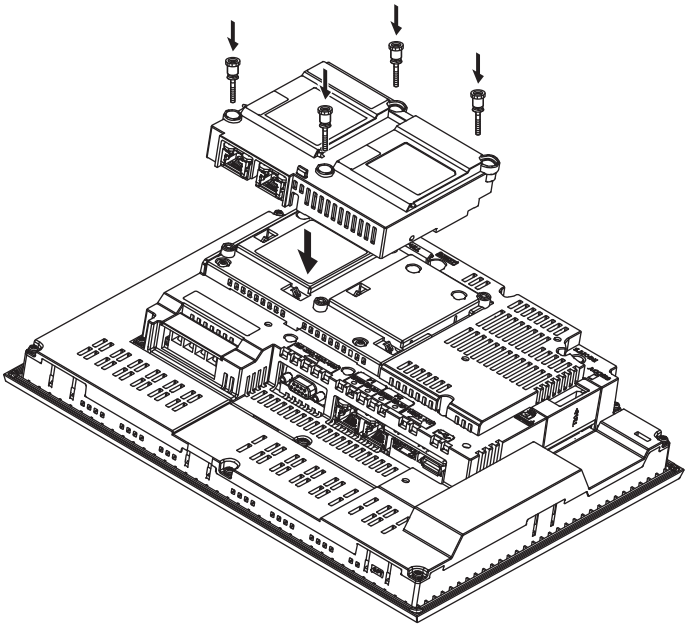
- If a connector cover is installed, do not remove it.
- Do not remove the stickers attached to the extension unit.



Installing a 2-channel extension unit

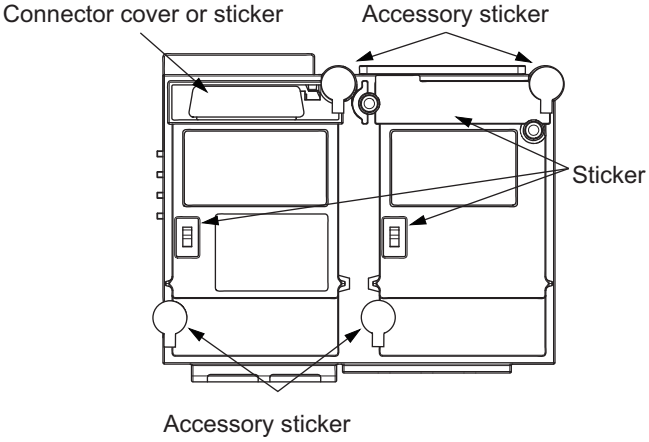
1. Align the extension unit with the extension interface converter unit.

2. Tighten the four mounting screws of the extension unit within the specified torque range (0.36 N·m to 0.48 N·m) to attach the unit.



3. Cover the mounting screws with the accessory stickers to protect against static electricity.

- If a connector cover is installed, do not remove it.
- Do not remove the stickers attached to the extension unit.



MEMO

Revisions

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

Revision date	*Manual number	Revision
Apr. 2025	IB-0800714ENG-A	First edition
Dec. 2025	IB-0800714ENG-B	• CC-Link IE Controller Network communication unit is supported. • CC-Link communication unit is supported. • Bus connection unit is supported. • MELSECNET/H communication unit is supported. • External I/O unit is supported. • Substances added to the revised China RoHS

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WARRANTY

Please check the following product warranty details before using this product.

■1. Gratis Warranty Term and Gratis Warranty Range

If any faults or defects (hereinafter "Failure") found to be the responsibility of Mitsubishi occurs during use of the product within the gratis warranty term, the product shall be repaired at no cost via the sales representative or Mitsubishi Service Company.
However, if repairs are required onsite at domestic or overseas location, expenses to send an engineer will be solely at the customer's discretion.
Mitsubishi shall not be held responsible for any re-commissioning, maintenance, or testing on-site that involves replacement of the failed module.

(1) Gratis Warranty Term

The gratis warranty term of the product shall be for thirty-six (36) months after the date of purchase or delivery to a designated place.
Note that after manufacture and shipment from Mitsubishi, the maximum distribution period shall be six (6) months, and the longest gratis warranty term after manufacturing shall be forty-two (42) months.
The gratis warranty term of repair parts shall not exceed the gratis warranty term before repairs.

(2) Gratis Warranty Range

(a) The customer shall be responsible for the primary failure diagnosis unless otherwise specified.
If requested by the customer, Mitsubishi Electric Corporation or its representative firm may carry out the primary failure diagnosis at the customer's expense.
The primary failure diagnosis will, however, be free of charge should the cause of failure be attributable to Mitsubishi Electric Corporation.

(b) The range shall be limited to normal use within the usage state, usage methods, and usage environment, etc., which follow the conditions and precautions, etc., given in the instruction manual, user's manual and caution labels on the product.

(c) Even within the gratis warranty term, repairs shall be charged in the following cases.

- Failure occurring from inappropriate storage or handling, carelessness or negligence by the user.
  Failure caused by the user's hardware or software design.
- Failure caused by unapproved modifications, etc., to the product by the user.
- When the Mitsubishi product is assembled into a user's device, Failure that could have been avoided if functions or structures, judged as necessary in the legal safety measures the user's device is subject to or as necessary by industry standards, had been provided.
- Failure that could have been avoided if consumable parts designated in the instruction manual had been correctly serviced or replaced.
- Replacing consumable parts such as a battery
- Failure caused by external irresistible forces such as fires or abnormal voltages, and Failure caused by force majeure such as earthquakes, lightning, wind and water damage.
- Failure caused by reasons that could not be predicted by scientific technology standards at the time of shipment from Mitsubishi.
- Any other failure found not to be the responsibility of Mitsubishi or that admitted not to be so by the user.

■2. Onerous repair term after discontinuation of production

(1) Mitsubishi shall accept onerous product repairs for seven (7) years after production of the product is discontinued.
Discontinuation of production shall be notified with Mitsubishi Technical Bulletins, etc.

(2) Mitsubishi shall not accept a request for product supply (including spare parts) after production is discontinued.

■3. Overseas service

Overseas, repairs shall be accepted by Mitsubishi's local overseas FA Center.
Note that the repair conditions at each FA Center may differ.

■4. Exclusion of loss in opportunity and secondary loss from warranty liability

Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to:

(1) Damages caused by any cause found not to be the responsibility of Mitsubishi.

(2) Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products.

(3) Special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for damages to products other than Mitsubishi products.

(4) Replacement by the user, maintenance of on-site equipment, start-up test run and other tasks.

■5. Changes in product specifications

The specifications given in the catalogs, manuals, or technical documents are subject to change without prior notice.

IB-0800714ENG-B(2512)MEE

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN
NAGOYA WORKS: 1-14, YADA-MINAMI 5-CHOME, HIGASHI-KU, NAGOYA 461-8670, JAPAN

When exported from Japan, this manual does not require application to the Ministry of Economy, Trade and Industry for service transaction permission.

Specifications subject to change without notice.