Changes for the Better

FX3U-CNV-BD

INSTALLATION MANUAL



Manual Number	JY997D13601
Revision	В
Date	June 2005

This manual describes the part names dimensions mounting an enecifications of the product Refore use read this manual and manuals of relevant products fully to acquire proficiency in handling and operating the product. Make sure to learn all the product information, safety information, and

And, store this manual in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user. Registration

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Effective June 2005

Specifications are subject to change without notice.

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Safety Precaution (Read these precautions before use.)

This manual classify the safety precautions into two categories: **♦DANGER** and **▶CAUTION**

() DANGER

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 medium or slight personal injuror physical damage.

Depending on circumstances, procedures indicated by ACAUTION may also be linked to serious results.

In any case, it is important to follow the directions for usage

Associated Manuals

Manual name	Manual No.	Description
FX _{3U} Series User's Manual - Hardware Edition		Explains FX3U Series PLC specification details for I/O, wiring, installation, and maintenance.

Note: FX3UC Series PLC specification details for I/O, wiring, installation, and maintenance can only be found in the Japanese Manual

How to obtain manuals

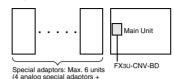
For the necessary product manuals or documents, consult with the Mitsubishi Electric dealer from where you purchase your product.

Applicable standard

FX₃U-CNV-BD made in June, 2005 or later complies with EC directive (EMC Directive). Further information can be found in the following manual. However, FX3UC-32 MT-LT does not comply with EC directive (EMC Directive)

→ Refer to FX3U Series Hardware Manual (Manual No. JY997D18801)

The special adaptor connection board FX3U-CNV-BD is an expansion board for connecting the analog and communication special adaptors to the main unit of a PLC.

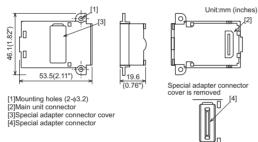


2 special adaptors for communication)

1.1 Incorporated Items

EX3U-CNV-RD Installation Manual M3 tapping screws for installation (2 pcs) manua Burn an

1.2 External Dimensions and Part Names



MASS (Weight): 10g (0.03lbs)

2. Installation INSTALLATION

DANGER PRECAUTIONS Cut off all phases of the power source externally before starting the installation or wiring work, thus avoiding electric shock or damages to the product.

INSTALLATION **⚠** CAUTION PRECAUTIONS

- Use the product in the environment within the general specifications describe in PLC main unit manual (Hardware Edition)
- Never use the product in areas with dust, oily smoke, conductive dusts corrosive gas (salt air, Cl2, H2S, NH3, SO2, or NO2), flammable gas, vibrations of impacts, or expose it to high temperature, condensation, or wind and rain. If the product is used in such a place described above, electrical shock, fire malfunction, damage, or deterioration may be caused.
- Use screwdrivers carefully when performing installation work, thus avoiding accident or product damage
- When drilling screw holes or wiring, cutting chips or wire chips should not enter ventilation slits
- Do not touch the conductive parts of the product directly, thus avoiding failure or
- Fix the expansion board securely to the specified connector Incorrect connection may cause malfunction.

Such an accident may cause fire failure or malfunction.

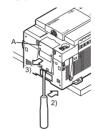
The following explains the installation method to FX3U/FX3UC Series PLC (FX3U Series PLC is used for the following example).

For removing and installing details, refer to the PLC main unit manual However, FX3UC Series PLC manual is only available in Japanese.

→ Refer to FX3U Series User's Manual - Hardware Edition

2.1 Installation Method

- . Refer to the procedure 2) for configuring a new system.
- . Refer to the procedure 1) for adding product to an existing system.
- 1) Power off the PLC Disconnect all the cables connected to the PLC. Dismount the PLC from the DIN rail
- 2) Using a flat blade screwdriver as shown in the right figure, lift the little dummy expansion board cover (right fig. A). Do not damage the circuit board or electronic parts.
- 3) Remove the dummy expansion board cover (right fig. A) in a parallel motion away from the main unit



- 4) Make sure the expansion board (right fig. B) is in parallel with the main unit (right fig. C) and fix it to the expansion board connector.
- 5) Fix the expansion board (right fig. B) to the main unit using the M3 tapping screws of the provided (right fig. D).
- Tighten to a torque: 0.3 to 0.6 N·m



3. Specification

STARTUP AND MAINTENANCE PRECAUTIONS

↑CAUTION

- Do not disassemble or modify the unit. Doing so may cause failure, malfunction or fire. * For repair, contact your local Mitsubishi Electric distributor.
- Do not drop the product or do not exert strong impact, doing so may cause damage

DISPOSAL PRECAUTIONS

∴ CAUTION

Please contact a company certified in the disposal of electronic waste for environmentally safe recycling and disposal of the product

TRANSPORT AND STORAGE PRECAUTIONS

∴CAUTION

During transportation avoid any impact as the product is a precision instrumen Check the operation of the product after transportation

3.1 Applicable PLC

Model name	Applicability
FX _{3U} Series PLC	Ver.2.00 or later (from the first product)
FX3UC Series PLC	Ver.1.00 or later

Only one function expansion board can be used for one main unit. Two or more FX3U-CNV-BD cannot be used, or other expansion boards such as

FX₃U-422-BD or FX₃U-485-BD cannot be installed/used together with FX₃U-CNV-BD. For details of the system configuration, refer to the following manual.

→ Refer to FX Series User's Manual - Data Communication Edition

3.2 General Specifications

General specifications are the same as the PLC main unit. For general specifications, refer to the following manual

→ Refer to FX3U Series User's Manual - Hardware Edition

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- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi Electric.
- This product has been manufactured under strict quality control. However when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.



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