

MODEL GT15-60VLT
BACKLIGHT

User's Manual

Thank you for purchasing the GOT1000 Series.

Prior to use, please read both this manual and detailed manual thoroughly to fully understand the product.

MODEL	GT15-60VLT-U
MODEL CODE	1D7M09
IB(NA)-0800303-F(1505)MEE	

GRAPHIC OPERATION TERMINAL
GOT1000

SAFETY PRECAUTIONS

(Always read these precautions before using this equipment.)

Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly.

The precautions given in this manual are concerned with this product. In this manual, the safety precautions are ranked as "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 injury or physical damage.

Note that the **CAUTION** level may lead to a serious accident according to the circumstances. Always follow the precautions of both levels because they are important to personal safety. Please save this manual to make it accessible when required and always forward it to the end user.

[BACKLIGHT REPLACEMENT PRECAUTIONS]

DANGER

- Make sure to externally shut off all phases of GOT power supply (When GOT is connected via the bus type connection, make sure to cut all phases of PLC CPU power supply as well) and remove the GOT from the control panel before backlight replacement. If all phases are not shut off, it may cause an electric shock. If backlight is replaced with the GOT on the control panel, the GOT may drop off, resulting in injuries.

CAUTION

- Make sure to wear gloves during backlight replacement. Failure to do so may cause injuries.
- Make sure to start the backlight replacement 5 or more minutes after power off of the GOT. Failure to do so may cause burn injuries as the old backlight holds heat for a while.

[STARTUP AND MAINTENANCE PRECAUTIONS]

CAUTION

- Before handling the GOT, make sure to touch a grounded metal object to discharge the static electricity from the human body. Failure to do so may cause the GOT to fail or malfunction.

[DISPOSAL PRECAUTIONS]

CAUTION

- Dispose of this product as industrial waste.

[TRANSPORTATION PRECAUTIONS]

CAUTION

- Make sure to transport the GOT main unit and/or relevant unit(s) in the manner they will not be exposed to the impact exceeding the impact resistance described in the general specifications of the GT15 User's Manual, as they are precision devices. Failure to do so may cause the unit to fail. Check if the unit operates correctly after transportation.

Manuals

The following shows manuals relevant to this product.

Detailed Manual

Manual name	Manual number (Type code)
GT15 User's Manual (Option)	SH-080528ENG (1D7M23)

Relevant Manuals

For relevant manuals, refer to the PDF manuals stored in the DVD-ROM for the drawing software used.

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1. OVERVIEW

This User's Manual describes Model GT15-60VLT backlight (hereafter abbreviated to the backlight). Refer to the GT15 User's Manual for the applicable GOT.

Product name	Model name	Description
Backlight	GT15-60VLT	For 8.4" VGA liquid crystal

2. SPECIFICATIONS

The performance specifications of the backlight are indicated below. The general specifications of the backlight are the same as those of the GOT. For the general specifications of the backlight, refer to GT15 User's Manual.

Item	Specification
Kind	Cold cathode tube back light
Life	50,000h (Operating ambient temperature: 25°C)
Weight	0.016Kg (Equivalent to the weight of two (upper and lower) backlights)

3. BACKLIGHT REPLACEMENT

The GOT includes the backlight for liquid crystal display panel. Please note that the backlight intensity decreases in time. The backlight needs to be replaced when the display section becomes dark due to the decreased intensity and the picture is unclear. The backlight replacement procedure is described below.

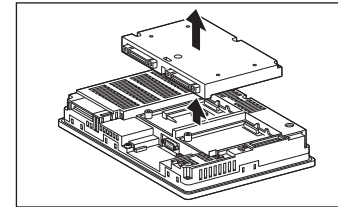
Backlight replacement varies with the hardware version of the applicable GOT. Before replacement, please confirm the hardware version. The hardware version is indicated on the rating plate of the GOT rear face. For the confirmation method of the hardware version, refer to GT15 User's Manual.

Model name	Hardware version	Reference
GT15-60VLT	D (Apr., 2005) or earlier.	3.2
	E (Mar., 2005) or later.	3.1

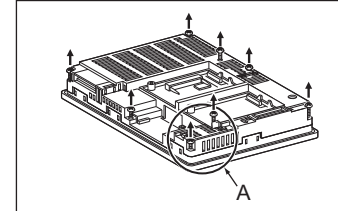
3.1 Replacement (1)

- Power off the GOT.
- Disconnect the power supply cable and communication cable. Remove the GOT from the control panel.
- Remove the expansion unit cover on the right side of the GOT.

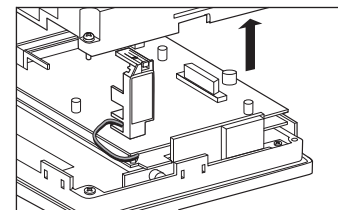
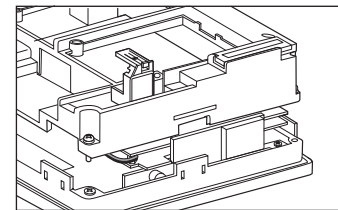
Remove the expansion unit, e.g. bus connection unit, if it is mounted.



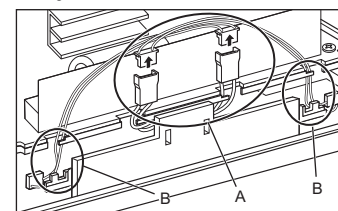
- Remove the GOT rear fixing screws (8 pcs.) with a screwdriver.



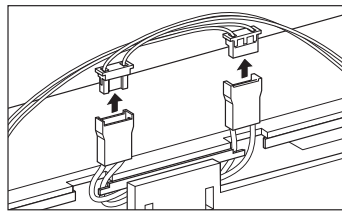
- Remove the case after passing the battery holder through the mounting hole. When removing, take care of not cutting the cable of the battery holder. (Expanded figure of part A in (4))



- Disconnect the cable connector of the upper (H01) backlight and the cable connector of the lower (H02) backlight from the GOT side connectors.



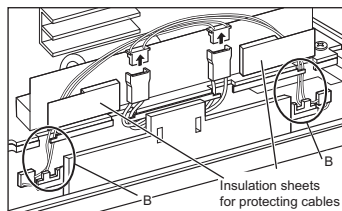
(Expanded figure of part A in (6))



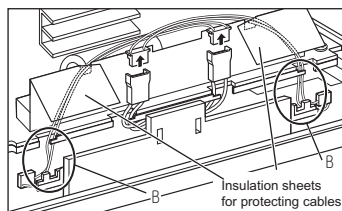
(Continued to lower left)

When the GOTs with the following hardware versions are used, remove the cables from the insulation sheets for protecting cables.

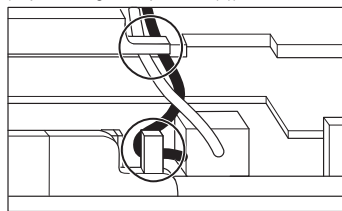
- GT1565-VTBA(Hardware version W to AY)
- GT1565-VTBD(Hardware version N to AL)



- GT1565-VTBA(Hardware version AZ or later)
- GT1565-VTBD(Hardware version AM or later)

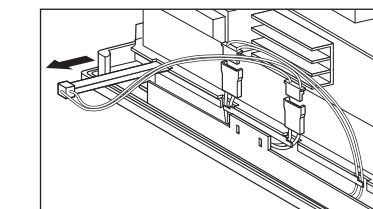
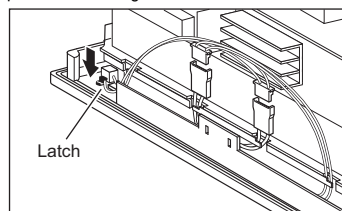


- Remove the cables of the upper connector (H01) from the 2 slits (black). Similarly, remove the cables of the upper connector (H02) from the 2 slits (black). (Expanded figure of part B in (6))



- Press the upper backlight fixing latch (black) with your finger, and pull out the backlight to the left. Similarly, press

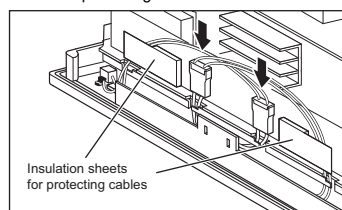
the lower backlight fixing latch (black) with your finger, and pull out the backlight to the left.



- Mount a new backlight in the reverse procedure of removal.

When the GOT with the insulation sheets for protecting cables is used, place the cables between the insulation sheet and the insulation sheets for protecting cables. When connecting the cable connectors of the backlight and the GOT unit, connect by crossing the cable connectors each other as the below.

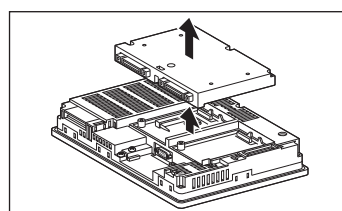
The following figure shows an example with the insulation sheets for protecting cables.



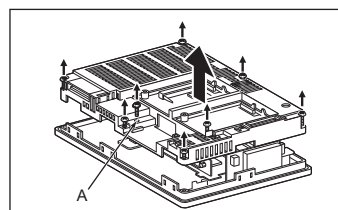
- Also assemble the case in the reverse procedure of disassembly. (Tighten the GOT rear fixing screws within the torque range of 0.36 to 0.48N·m). When mounting the case, take care of not biting the cables between the case and the GOT.

3.2 Replacement (2)

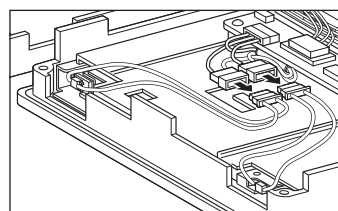
- Power off the GOT.
- Disconnect the power supply cable and communication cable. Remove the GOT from the control panel.
- Remove the expansion unit cover on the right side of the GOT. Remove the expansion unit, e.g. bus connection unit, if it is mounted.



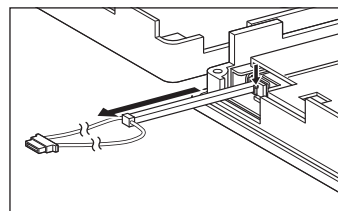
- Remove the GOT rear fixing screws (8 pcs.) with a screwdriver, and remove the case. Screw A must be tightened in the torque range of 0.186 to 0.245 N·m, as it is made of plastic.



- Disconnect the cable connector of the upper (H01) backlight and the cable connector of the lower (H02) backlight from the GOT side connectors.



- Press the upper backlight fixing latch (black) with your finger, and pull out the backlight to the left. Similarly, press the lower backlight fixing latch (black) with your finger, and pull out the backlight to the left.



- Mount a new backlight in the reverse procedure of removal. Also assemble the case in the reverse procedure of disassembly. (Tighten the GOT rear fixing screws within the following torque range: Screw A: 0.186 to 0.245 N·m. Other screws: 0.36 to 0.48N·m.) When mounting the case, take care of not biting the cables between the case and the GOT.

Warranty

Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

For safe use

- 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.
- 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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Specifications subject to change without notice. Printed in Japan, May 2015.