

**MITSUBISHI ELECTRIC**

**MODEL GT15-60VLTN 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	GT15-60VLTN-U
MODEL CODE	1D7M43
IB(NA)-0800328-E(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
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 GT15-60VLTN backlight (hereafter abbreviated to the backlight). Refer to the GT15 User's Manual for the applicable GOT.

Product name	Model name	Description
Backlight	GT15-60VLTN	For 8.4" TFT (VGA)

**2. SPECIFICATIONS**

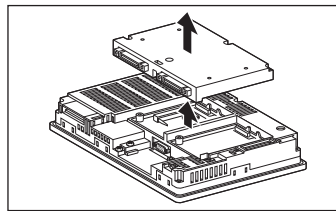
The performance specifications of the backlight are indicated below. The general specifications of the backlight are the same as those of the GOT. For the general specifications of the backlight, refer to GT15 User's Manual.

Item	Specifications
Kind	Cold cathode tube back light
Life	40,000h or more (Operating ambient temperature: 25°C)
Weight	0.008Kg

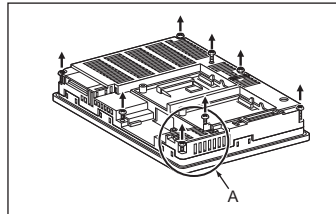
**3. BACKLIGHT REPLACEMENT**

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.

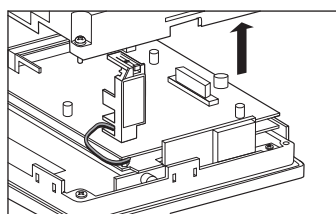
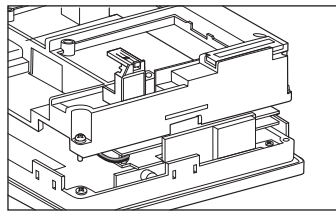
- Power off the GOT.
- Disconnect the power supply cable and communication cable. Remove the GOT from the control panel.
- Remove the expansion unit cover on the right side of the GOT. Remove the expansion unit, e.g. bus connection unit, if it is mounted.



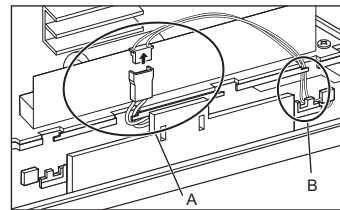
- Remove the GOT rear fixing screws (8 pcs.) with a screwdriver.



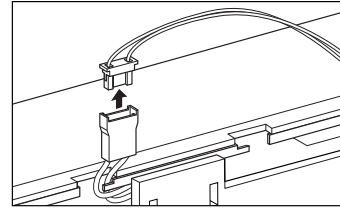
- Remove the case after passing the battery holder through the mounting hole. When removing, take care of not cutting the cable of the battery holder. (Expanded figure of part A in (4))



- Disconnect the cable connector of the backlight from the GOT side connector.

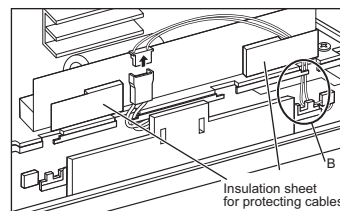


(Expanded figure of part A in (6))

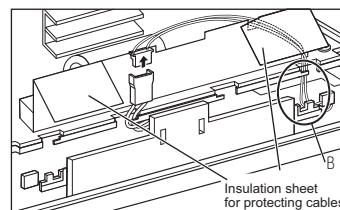


When the GOTs with the following hardware versions are used, remove the cable from an insulation sheet for protecting cables.

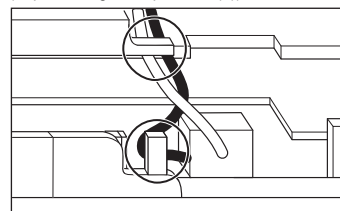
- GT1562-VNBA (Hardware version S to AT)
- GT1562-VNBD (Hardware version K to AH)



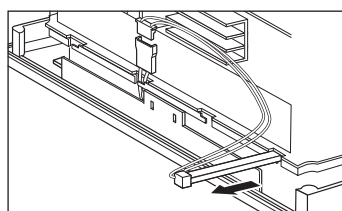
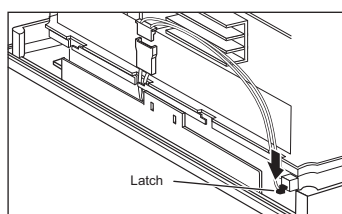
- GT1562-VNBA (Hardware version AU or later)
- GT1562-VNBD (Hardware version AJ or later)



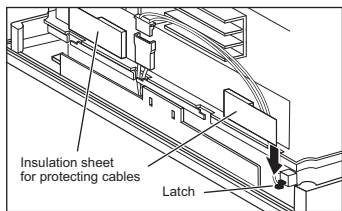
- Remove the cables from the 2 slits (black). (Expanded figure of part B in (6))



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

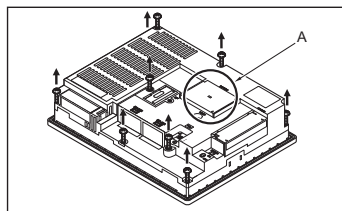


- Mount a new backlight in the reverse procedure of removal. When the GOT with the insulation sheets for protecting cables is used, place the cable between the insulation sheet and an insulation sheet for protecting cables. When connecting the cable connector of the backlight to the GOT side connector, connect it as shown below. The following figure shows an example with the insulation sheets for protecting cables.

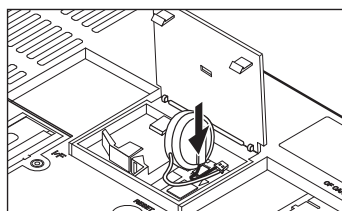
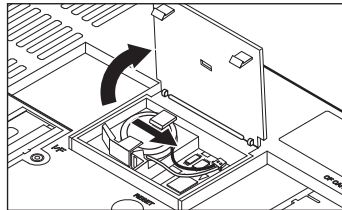


Also assemble the case in the reverse procedure of disassembly. (Tighten the GOT rear fixing screws within the torque range of 0.36 to 0.48N·m). When mounting the case, take care of not biting the cables between the case and the GOT.

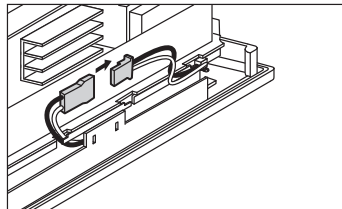
- Remove the GOT rear fixing screws (8 pcs.) with a screwdriver.



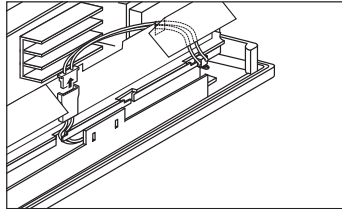
- Open the battery cover and remove the case with passing the battery through the hole of the case. (Only when a battery is mounted.) When removing the case, take care not to detach the battery cable from the board. (Expanded figure of part A in (3))



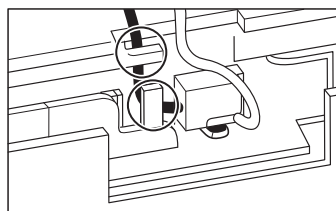
- Disconnect the cable connector of the backlight from the GOT side connector.



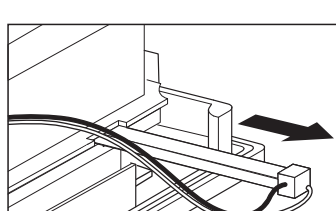
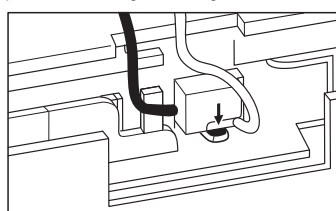
- GT1165-VNBA-C (Hardware version AE or later)



- Remove the cables from the 2 slits (black).



- Press the backlight fixing latch (black) with your finger, and pull out the backlight to the right.



- 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 torque range of 0.36 to 0.48 N·m). When mounting the case, take care of not biting the cables between the case and the GOT.

**Point**

Be careful not to disconnect the battery cable from the board when replacing the backlight. When the battery cable is disconnected, data will be erased. It is recommended to back up data before replacing the backlight.

- Precautions for backlight replacement
  - When the battery cable is disconnected, connect it to the board again within 30 seconds. After 30 seconds or more, data in the D drive (recipe data, alarm history) and clock data will be erased.
- Data backup and resetting
  - Data can be backed up or reset with the following operation.
    - Recipe data : Data can be backed up by uploading the data with GT Designer2. For details, refer to the GT Designer2 Version Basic Operation/Data Transfer Manual.
    - Clock data : When the data is erased, set it again after attaching the battery.
    - Alarm history: Backup is not allowed.

**BACKLIGHT REPLACEMENT PROCEDURE FOR THE GT1165-VNBA-C**

When using a GOT of model name "GT1165-VNBA-C", replace the backlight with the following procedure.

- Power off the GOT.
- Disconnect the power supply cable and communication cable. Remove the GOT from the control panel.

**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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