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See Also:

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USB Cable Clamp for USB (mini-B)

Introduction

When using a USB device, you can attach a USB cable clamp to the USB (mini-B) interface to prevent the USB cable from being disconnected.

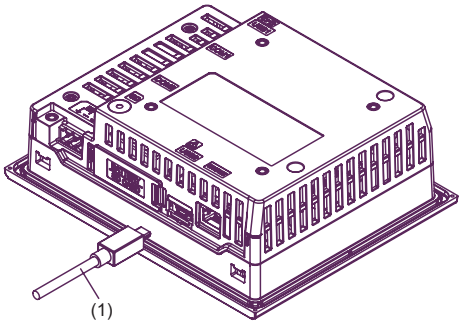
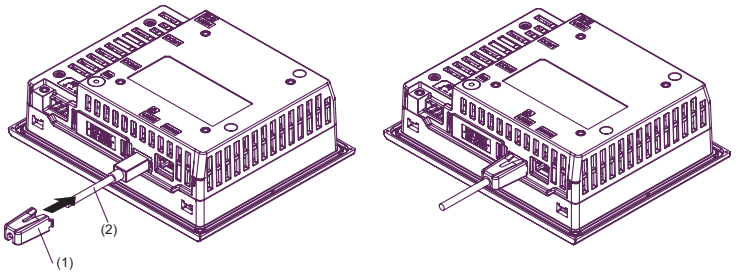
⚠ DANGER

POTENTIAL FOR EXPLOSION

- Verify that the power, input and output (I/O) wiring are in accordance with Class I, Division 2 wiring methods.
- Substitution of any component may impair suitability for Class I, Division 2.
- Confirm that the USB cable has been attached with the USB cable clamp before using the USB interface.
- Remove power before attaching or detaching any connectors to or from the unit.

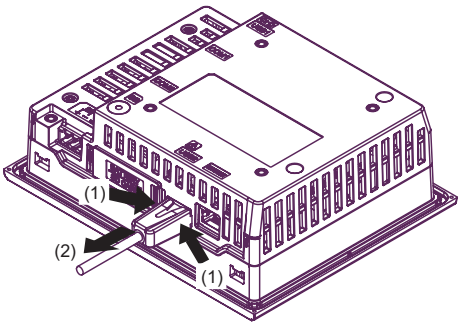
Failure to follow these instructions will result in death or serious injury.

Attaching the USB Cable Clamp

Step	Action
1	Insert the USB cable into the USB (mini-B) interface.  **1** USB cable
2	Attach the USB clamp to fix the USB cable in place. Insert the USB clamp into the USB (mini-B) interface.  **1** USB clamp **2** USB cable

Removing the USB Cable Clamp

Remove the USB clamp by pressing the tabs from the sides.



1 USB clamp
2 USB cable

Maintenance

6

Overview

This chapter explains how to maintain your GP unit.

What Is in This Chapter?

This chapter contains the following topics:

Topic	Page
Regular Cleaning	164
Replacing the Installation Gasket	165
Periodic Check Points	167
Replacing the Primary Battery	168

Regular Cleaning

Cleaning the display

NOTICE

EQUIPMENT DAMAGE

- Power off the GP unit before cleaning it.
- Do not use hard or pointed objects to operate the touch panel as you may damage the panel surface.
- Do not use paint thinner, organic solvents, or a strong acid compound to clean the unit.

Failure to follow these instructions can result in equipment damage.

When the surface or the frame of the display gets dirty, soak a soft cloth in water with a neutral detergent, wring the cloth tightly and wipe the display.

Replacing the Installation Gasket

NOTE:

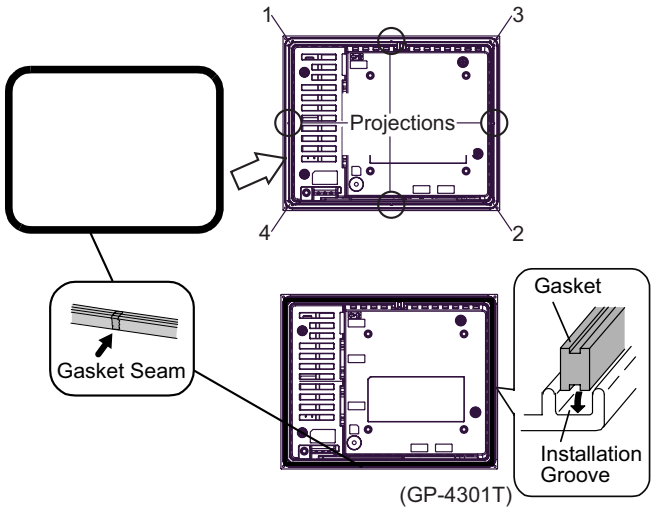
- If you are using the rear mount model, refer to Installation *(see page 220)*.

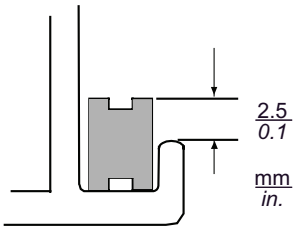
Overview

The installation gasket provides protection against dust and moisture.

NOTICE
GASKET AGING • Inspect the gasket periodically as required by your operating environment to keep the initial IP level. • Change the gasket at least once a year, or as soon as scratches or dirt become visible. **Failure to follow these instructions can result in equipment damage.**

Installing the Installation Gasket

Stage	Description
1	Place the GP unit on a flat, level surface, with the display face pointing down.
2	Remove the gasket from the GP unit.
3	Attach the new gasket to the GP unit. Position the gasket in the installation groove so that the gasket seam is at the bottom of the GP unit. First, insert the gasket into the 4 corners, in the order shown in the image below. Then, insert the rest of the gasket into the installation groove. **NOTE:** • The center of the GP unit bezel's installation groove is ribbed. Make sure you insert the gasket all the way in without catching the ribbed sections. • When using a tool to insert the gasket, make sure the tool does not catch the rubber gasket and cause a tear. 

Stage	Description
4	The upper surface of the gasket should protrude approximately 2.5 mm (0.1 in.) from the groove. Check the gasket is inserted correctly before installing the GP unit into a panel. 

The gasket must be inserted correctly into the groove for IP65F moisture resistance for the GP unit.

⚠ CAUTION

EQUIPMENT DAMAGE

- Since the gasket is flexible but not elastic, be careful not to stretch it unnecessarily.
- Make sure the gasket seam is not inserted into any of the GP unit corners.
- Insert the gasket in the installation groove

Failure to follow these instructions can result in injury or equipment damage.

Periodic Check Points

Operation Environment

- Is the operating temperature within the allowable range? Refer to Environmental Specifications *(see page 46)*, *(see page 66)*, *(see page 84)*, *(see page 99)*, *(see page 119)*.
- Is the operating humidity within the specified range? (10%RH to 90%RH, dry bulb temperature of 39 °C [102.2 °F] or less)
- Is the operating atmosphere free of corrosive gasses?

When the GP unit is inside a panel, the ambient environment refers to the interior of the panel.

Electrical Specifications

Is the input voltage appropriate?

- 100 Vac to 240 Vac 50/60 Hz
- 19.2 Vdc to 28.8 Vdc

Related Items

- Are all power cords and cables connected properly? Are there any loose cables?
- Are all mounting brackets holding the unit securely?
- Are there scratches or traces of dirt on the installation gasket?

Replacing the Primary Battery

Introduction

The replacement battery (sold separately) for the primary battery in the GP unit is available from Pro-face.

NOTE: The GP-4200 Series and GP-4301TW are not equipped with a primary battery.

⚠⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Follow the procedures step by step to replace the battery correctly and safely.
- Before replacing the battery, turn OFF the GP unit's power.

Failure to follow these instructions will result in death or serious injury.

⚠ DANGER

EXPLOSION, FIRE, OR CHEMICAL HAZARD

- Use only the replacement battery manufactured by Pro-face.
- Do not cause a short circuit.
- Recycle or properly dispose of used batteries.

Failure to follow these instructions will result in death or serious injury.

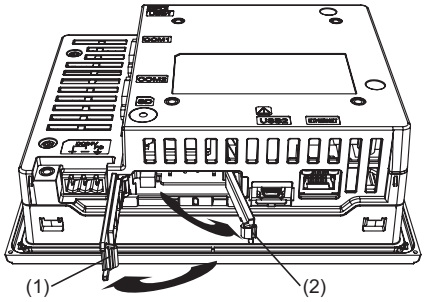
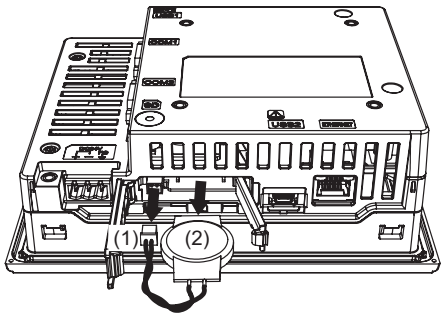
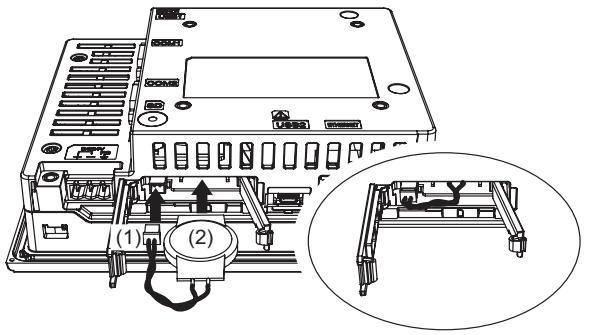
NOTICE

LOSS OF DATA

The primary battery is non-rechargeable, and is used for data backup of memory and the internal clock. If the primary battery is depleted, the backup data is lost. One month before the primary battery is completely depleted, a message will appear to indicate it is time to replace the primary battery.

- Replace the battery within one month after the message appears. Otherwise, backup data may be lost.
- Complete replacing the battery within ten minutes of shutting down the GP unit.
- The primary battery replacement time (within a month after the message appears) is only a guideline. When backup SRAM data and clock data is lost after the message appears, Pro-face does not perform data recovery/retrieval. Pro-face does not accept any responsibility for the loss of data.
- Replace the primary battery regularly every five years after you purchase the GP unit.

Failure to follow these instructions can result in equipment damage.

Step	Action
1	Disconnect the power supply from the GP unit.
2	Touch the housing or ground connection (not the power supply) to discharge any electrostatic charge from your body.
3	Open the SD Card Interface Cover by pressing its tab. Next, open the Replacement Battery Insertion Cover by pressing its tab.  **1** SD Card Interface Cover / Tab **2** Replacement Battery Insertion Cover / Tab
4	Remove the primary battery and connector.  **1** Connector **2** Primary battery
5	Insert the replacement battery and connector all the way. Either side of the battery can face top or bottom.  **1** Connector **2** Replacement battery

Step	Action
6	First close the replacement battery cover, then close the SD Card Interface Cover. **NOTE:** Make sure the cables are inserted completely inside the enclosure. Otherwise, you can damage the cables when you close the cover.
7	Reconnect the power supply to the GP unit.