PL-FD510
Installation Guide

The PL-FD510 is an internally mounted 3.5 inch floppy disc drive unit, designed for use with Proface's Panel Computer, PL-5910 Series Units, hereafter referred to as the "PL."

Corresponding Product : PL-5910 Series Units

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Pro-face : Digital Electronics Corporation

⚠ WARNINGS

- Be sure to confirm that the PL unit's power cord is disconnected prior to installing the FDD unit, in order to prevent electrical shock.
- Do not attempt to modify the FDD unit, due to the danger of fire or electrical shock.
- Prior to installing the FDD unit, be sure to read section "2. Installation" completely to insure that this unit is correctly installed.
- The PL is not appropriate for use with aircraft control devices, aerospace equipment, central trunk data transmission (communication) devices, nuclear power control devices, or medical life support equipment, due to these devices inherent requirements of extremely high levels of safety and reliability.
- When using the PL with transportation vehicles (trains, cars and ships), disaster and crime prevention devices, various types of safety equipment, non-life support related medical devices, etc. redundant and/or failsafe system designs should be used to ensure the proper degree of reliability and safety.

To prevent this unit from malfunctioning :

- Since the FDD unit is a precision instrument, be sure that it is neither hit by nor pressed strongly against another object.
- Be sure that water, liquids, or metal particles are not allowed to contact or enter this unit. Either of these may cause either a breakdown or an electrical shock.
- Do not install or operate this unit in a location where there is direct sunlight, excessive heat, dust or vibration.
- Do not store or operate this unit near chemicals, or where there are chemical fumes.
- To prevent damage to file data, be sure to shut down the PL unit's OS before turning OFF the main power.

Unit Disposal :

- When this product is disposed of, it should be done so according to your country's regulations for similar types of industrial wastes.
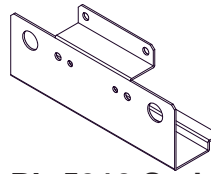
Package Contents

■PL-FD510   (1)

■Attachment Screws (4)
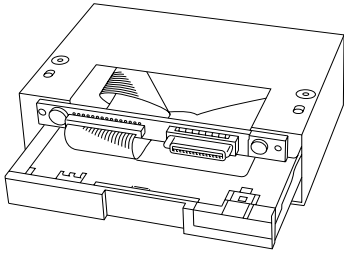
■PL-FD510 Installation Guide
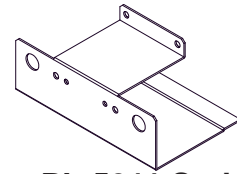(This Guide)   (1)

■Brakets

For PL-5910 Series   **For PL-5911 Series**

Proface has taken the utmost care to insure the quality of this product when it was shipped. However, should, for any reason, problems or damage have occurred during shipping, please contact your Proface representative immediately for service.

1   Hardware Specifications

■ **Performance**

Operation Mode	2MB mode record/write	1MB mode record/write
Disc Type (3.5 inch)	High density type (2HD)	Double density type (2DD)
Unformatted Data Capacity	2MB	1MB
Data Transfer Speed	500K bits/second	250K bits/second
Disc Rotation Speed	300 rpm	
Track Density	135 tpi	
Track-track Seek Speed	3 ms	
Power Consumption	At start : 0.7A (typ.) At read/write : 0.3A (typ.) During wait : 0.01A (typ.)	
Reliability (MTBF)	30,000 hours	

■ **Environmental**

Ambient Operating Temperature	5°C to 45°C
Ambient Storage Temperature	-20°C to 60°C
Ambient Humidity	20%RH to 80%RH (no condensation)
Vibration Resistance	(During operation) 9.8m/s^2 (10Hz to 25Hz)
Shock Resistance	(During shipping) 980.7m/s^2

⚠ *Important*

- *The above specifications are for the FDD unit only.*
- *Proface does not guarantee the preservation of any data stored on the HDD if the HDD malfunctions or is damaged in any way. Therefore, the regular backing up of important HDD data to either a floppy disk, or other type of suitable magnetic media is strongly recommended.*

2 Installation

Be sure to use the following installation procedures to insure that the unit is correctly installed. As for PL-5910T unit, the attachment procedures are same as PL-5911T unit.

⚠ WARNING

Shock Danger! Be sure to disconnect the PL unit's power cord prior to installing the FDD Unit.

(PL-5911T)

FDD's Blank (Filler) Panel <front>
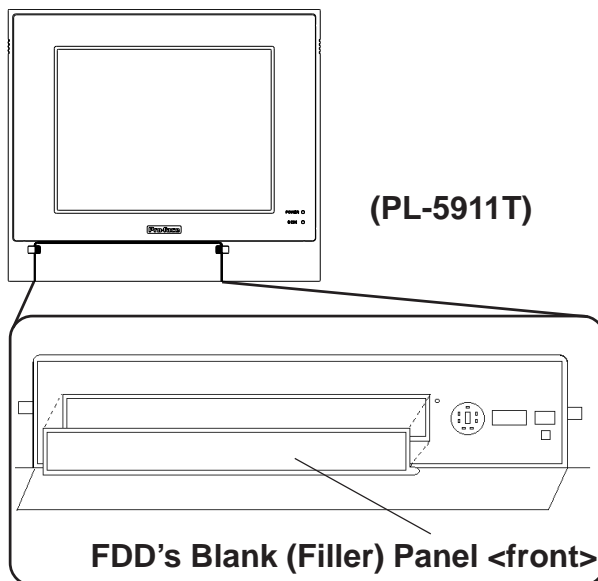
1) Open the front maintenance cover and remove the FDD's blank (filler) panel.

2) Close the front maintenance cover.

FDD's Rear Blank (Filler) Panel
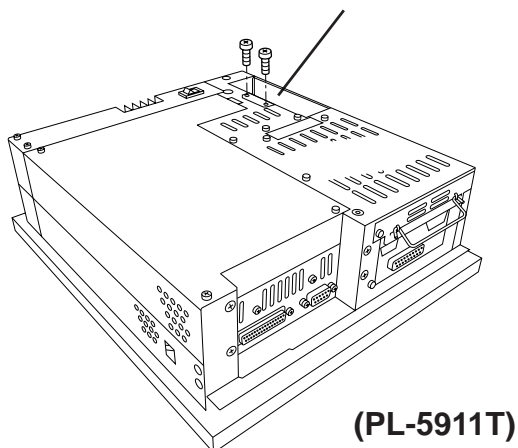
(PL-5911T)

3) Unscrew the two rear face Blank Panel attachment screws, and remove the Blank Panel.
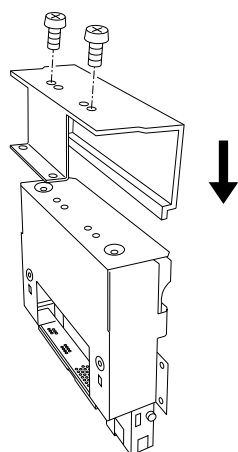
4) Attach the braket for PL-5911 Series that comes with the FDD unit to the FDD unit and secure it with the two (2) attachment screws.
The necessary torque is 0.5 to 0.6N•m.
(Do not use the brank panel removed in step 3).

📝 *Note:* **When using PL-5910 Series unit, be sure to use the braket for PL-5910 Series.**
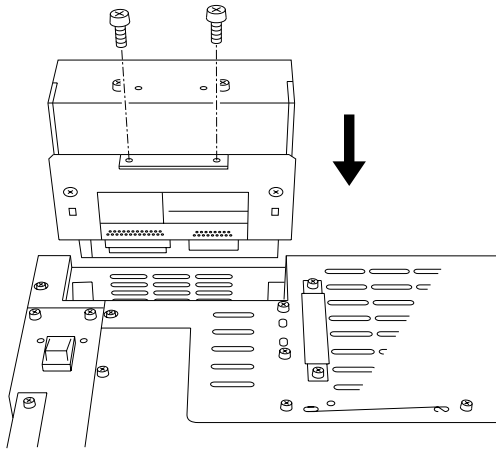
5) Insert the FDD unit into the PL. Be sure the connectors of the PL and the FDD unit are securely connected.
Attach the FDD unit to the PL using the FDD unit's four (4) attachment screws.
The necessary torque is 0.5 to 0.6N•m.
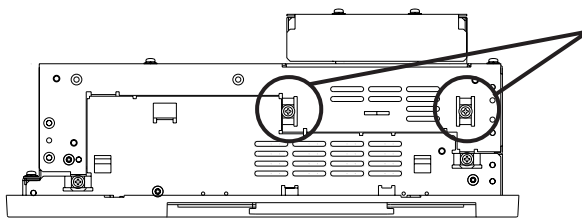
Bottom face screws

6) This includes the two (2) PL bottom face attachment screws.
The necessary torque is 0.5 to 0.6N•m.

🖎 *Note:* **Even after the unit is securely attached to the PL, part of the unit will extend out from the PL.**

3 Hardware Setup

Use the following steps to setup the hardware.

⚠️ **Important** ***Certain BIOS screen items may differ from those shown here due to new versions.***

1) Connect a keyboard to the PL.

2) Turn the PL's power ON.

3) After the message, "Press <DEL> to Enter SETUP" appears at the left bottom of the screen, hold down the [DEL] key.

The setup utility will start and the following screen will appear.

```
              Phoenix FirstBIOS(tm) Desktop CMOS Setup Utility

    ▸ Standard CMOS Features          Load Fail-Safe Defaults

    ▸ Advanced BIOS Features          Load Optimized Defaults

    ▸ Advanced Chipset Features       Set Supervisor Password

    ▸ Integrated Peripherals          Set User Password

    ▸ Power Management Setup          Save & Exit Setup

    ▸ PnP/PCI Configurations          Exit Without Saving

    ▸ Frequency/Voltage Control

     ESC  : Quit                           ↑ ↓ → ←  : Select Item
     F10  : Save & Exit Setup
                      Time,Date,Hard Disk Type . . .
```

Operation Keys

Provides a list of keys used for setup procedures.

System Setting Areas

Each selection item shown here represents a separate menu area, where settings can be entered.

4) Use the cursor to select "STANDARD CMOS SETUP," and the follow-
ing screen will appear.

```
┌─────────────────────────────────────────────────────────────────────┐
│              Phoenix FirstBIOS(tm) Desktop CMOS Setup Utility          │
│                       Standard CMOS Features                          │
├──────────────────────────────────────────────┬──────────────────────┤
│   Date (mm:dd:yy):      Thu, Feb 15 2007       │      Item Help        │
│   Time (hh:mm:ss):      11 : 15 : 14           │                       │
│                                                │ Menu Level      ▶     │
│  ▶ IDE Primary Master   HTS541020G9AT00        │                       │
│  ▶ IDE Primary Slave    Press Enter None       │ Change the day, month,│
│                                                │ year and century      │
│   Drive A               1.44M, 3.5 in.         │                       │
│   Drive B               None                   │                       │
│                                                │                       │
│   Video                 EGA/VGA                │                       │
│   Halt On               All,But Keyboard       │                       │
│                                                │                       │
│   Base Memory                  640K            │                       │
│   Externded Memory          259072K            │                       │
│   Total Memory              260096K            │                       │
├──────────────────────────────────────────────┴──────────────────────┤
│  ↑ ↓ →← :Move  Enter:Select  +/-/PU/PD:Value  F10:Save  ESC:Exit  F1:General Help │
│       F5:Previous Values   F6:Fail-Safe Defaults    F7:Optimized Defaults │
└─────────────────────────────────────────────────────────────────────┘
```

5) Confirm that "Drive A:" is set to "1.44M, 3.5 in." If the setting is different,
place the cursor on the "Drive A:" selection item and use the [PU], [PD] o r
[+], [-] key to select the "1.44M, 3.5 in." drive setting.

6) Press the [ESC] key, and the initial (main) menu screen will appear.

7) Place the cursor on the "SAVE & EXIT SETUP" selection item and press the
[Enter] key.

8) After the "SAVE to CMOS and EXIT (Y/N)? N" message appears, press the
[Y] key to quit the setup utility.

Inquiry
Do you have any questions about difficulties with this product? Please access our site anytime that you need help with a solution. **http://www.pro-face.com/otasuke/**

Note

Please be aware that Digital Electronics Corporation shall not be held liable by the user for any damages, losses, or third party claims arising from the uses of this product.

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