PL-FD200
Installation Guide

The PL-FD200 (FDD Unit) is an internally mounted 3.5 inch floppy disc drive unit, designed for use with Pro-face's Panel Computer, hereafter referred to as the "PL."

Corresponding PL unit: PL-X900,PL-X920 Series Units
All product names used in this document are the trademarks of their respective manufacturers.
Pro-face: Digital Electronics Corporation

⚠ Warning - Safety Precautions

- Be sure to confirm that the PL unit's power cord is disconnected prior to installing PL-FD200, in order to prevent electrical shock.
- Do not attempt to modify the PL-FD200, due to the danger of fire or electrical shock.
- Prior to installing the PL-FD200, be sure to read this Installation Guide's "2. Installation" section completely to ensure that this unit is correctly installed.
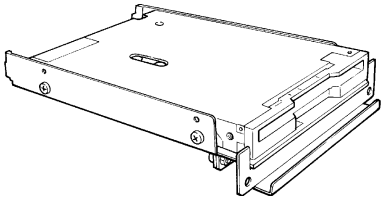
To Prevent Accidents

- Since the PL-FD200 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.
- Do not use the PL-FD200 in locations where corrosive gasses are present
- To prevent damage to file data, be sure to shut down the PL unit's OS before turning OFF the main power.

Package Contents

When you open the PL-FD200's package, please check immediately that the following items are included.

■ **PL-FD200**   **(1)**

■ **Installation Guide**   **(1)**
(PL-FD200)

Installation Guide

Pro-face 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 local Pro-face 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	2M bytes	1M bytes
Data Transmission 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.)	
MTBF(Mean Time Between Failures)	30,000 hours	

■ **Environment**

Ambient Operating Temperature	5^0C to 50^0C
Ambient Storage Temperature	-10^0C to $+60^0$C
Ambient Humidity	20% to 80%RH (no condensation)
Vibration Resistance	(During operation) $9.8 m/s^2$ (10Hz to 25Hz)
Shock Resistance	(During shipping) $980.7 m/s^2$

> **Important**
>
> • *The above specifications are for the PL-FD210 unit only.*
>
> • *Pro-face does not guarantee the preservation of any data stored on the PL-FD210 if the PL-FD210 has an accident, 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 magnetic media is strongly recommended.*
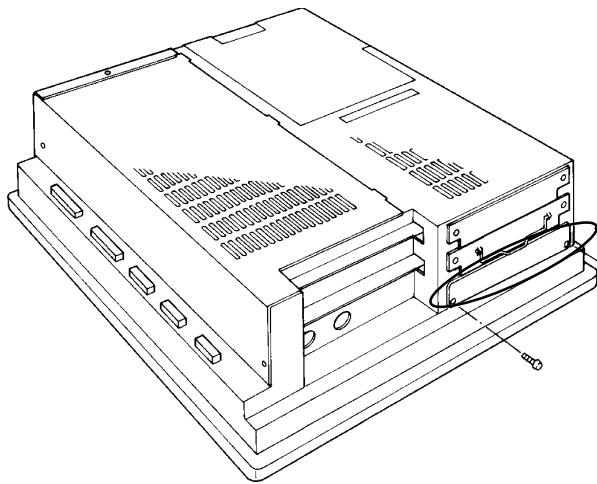
2 Installation

Be sure to use the following installation procedures to insure that the unit is correctly installed.
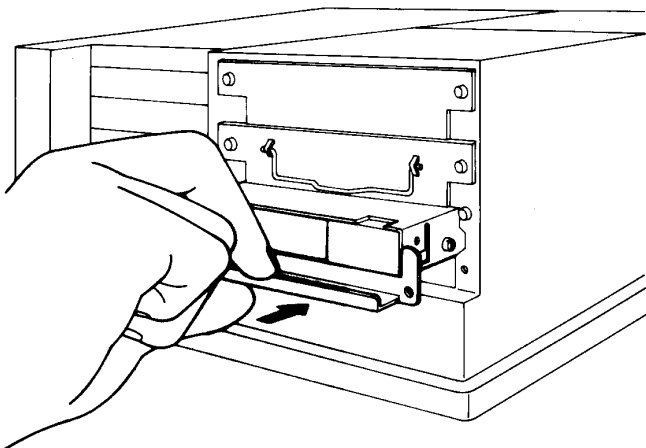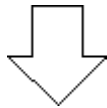
> ## ⚠ WARNING
>
> **WARNING**:   Shock Danger! Be sure to disconnect the PL unit's power cord prior to installing the PL-FD200.

1) Remove the lowermost of the PL's blank panels (located on the PL's side face) by unscrewing that panel's two(2) attachment screws. Then, remove the blank panel.

   Note: **This slot is reserved for the PL-FD200 unit. Do not insert this unit into any other slot.**

2) Insert the FDD unit into its installation slot, along the inside guide rail, until the FDD unit's connector contacts the rear connector receptacle and is inserted securely in place.

3) Reattach the panel attachment screws removed in step 1) and tighten them securely.

3 Hardware Setup

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.

```
              ROM PCI/ISA BIOS(2A5LEU1C)
                  CMOS SETUP UTILITY
                 AWARD SOFTWARE, INC.

   STANDARD CMOS SETUP          SYSTEM MONITOR UTILITY

   BIOS FEATURES SETUP          INTEGRATED PERIPHERALS

   CHIPSET FEATURES SETUP       SUPERVISOR PASSWORD

   POWER MENAGEMENT SETUP       USER PASSWORD

   PNP/PCI CONFIGURATION        IDE HDD AUTO DETECTION

   LOAD BIOS DEFAULTS           SAVE & EXIT SETUP

   LOAD SETUP DEFAULTS          EXIT WITHOUT SAVING

   ESC  : Quit            ↑↓→←      : Select Item
   F10  : Save & Exit Setup   (Shift)F2   : Change Color

                 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 following screen will appear.

```
                    ROM PCI/ISA BIOS(2A5LEU1C)
                      STANDARD CMOS SETUP
                       AWARD SOFTWARE, INC.

  Date (mm:dd:yy): Wed, Jul 2 1998

  Time (hh:mm:ss): 14 : 50 : 3

                   CYLS.  HEADS  PRECOMP  LANDZONE  SECT0RS  MODE
  Drive C: Auto( 0b)    0      0        0         0         0  AUTO
  Drive D: Auto( 0b)    0      0        0         0         0  AUTO

  Drive A : 1.44M, 3.5 in.


  Video: EGA/VGA
  VGA Graphics Mode: Normal       Base Memory       :   640K
                                  Extended Memory   :   31744K
                                  Other Memory      :   384K
  Halt On   : All, But Keyboard   Total Memory      :   32768K

  ESC :   Quit      ↑↓→←  :  Select Item      PU/PD/+/-  :  Modify
  F1  :   Help     (Shift)F2  :  Change Color
```

5) Check if the "Drive A:" is designated as "1.44M, 3.5 in." If not, place the cursor on the "Drive A:" selection 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 "SAVE to CMOS and EXIT (Y/N)? N" appears, press the [Y] key to quit the setup utility.

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.

Digital Electronics Corporation

8-2-52 Nanko Higashi, Suminoe-ku, Osaka 559-0031, Japan

URL: http://www.pro-face.com/