PL-6920/PL-7920 Series Windows® 2000 Multi Language Preinstalled Hard Disk Package Installation Guide

The PL-6920/PL-7920 Series Windows® 2000 Multi Language Preinstalled Hard Disk package is a set that includes not only the HDD drive with Microsoft corporation's preinstalled Windows® 2000 operating system, but also the DMC corporation's Mouse Emulation software (TSC-1310D/DD), as well as other driver and utility software, and a recovery media CD-ROM used when operating Pro-face's PL-X920 Series computers, hereafter referred to collectively as the "PL".

Corresponding models: PL-6920/PL-7920 Series units

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Windows® 2000: Microsoft Corporation

Symantec Ghost™ : Symantec Corporation

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This HDD unit contains a preinstalled version of Windows® 2000 Professional. Be sure to read and agree with all conditions stated herein prior to using this product. If you do not agree to all the conditions stated in this agreement, please return the entire product.

COA Data

* This Installation Guide is an important part of this product. Be sure to keep it in an easy to find location.

Microsoft® Windows® 2000 Professional for Embedded Systems
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Interface with Touch

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Safety Cautions

⚠ WARNINGS

- **Be sure to check that the PL's power is disconnected before installing the unit, in order to prevent an electrical shock.**
- **Do not attempt to modify or open the HDD unit, since it can cause a shock or fire.**
- **When installing the HDD unit, be sure to read the following "2. Installation" section's information completely to insure that the unit is correctly installed.**

To Prevent Accidents

- Since the HDD unit is a precision instrument, be sure it is neither hit by nor pressed strongly against another object. After unpacking, be sure the unit is not dropped or jolted during installation. Also, a PL built in to a larger unit (i.e. operation panel) should be removed and packed separately prior to shipping.

- Be sure water, liquids or metal particles are not allowed to enter the HDD unit. Any of these may cause either a breakdown or an electrical shock.

- Do not place or store 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 allow anyone other than Pro-face's own service staff to perform maintenance or adjustments to this unit.

- Do not move or shift the PL while the HDD unit is installed and the PL unit's power is ON.

- Do not use the HDD unit in locations where corrosive gasses are present, since they can lead to a hard disk breakdown.

- To prevent damage to file data, be sure to shut down the PL unit's OS before turning OFF the main power.

- To prevent HDD memory leaks, restart the OS periodically.

- In order to extend the lifetime of the hard disk, Pro-face recommends you set the Windows [Control panel]-[Power Management option]-[Turn off hard disks] selection to turn the hard disk off when the unit is not being operated. A setting of 5 minutes is recommended.
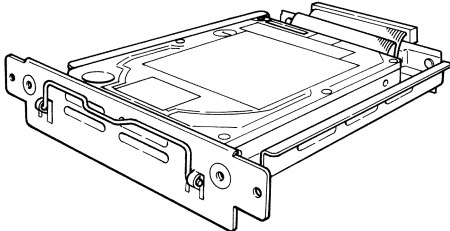
Unit Disposal

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

Package Contents

Please check that the following items are all included in your package.

■ Windows® 2000 Multi Language Preinstalled HDD unit

■ Recovery Media CD-ROM (3)

■ Installation Guide

> Installation
> Guide

■ Symantec Ghost™ EULA (1)

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

1 Hardware Specifications

■ Features

Capacity	20GB
Average Seek Time	12msec(TYP)
Power Consumption	At Startup : 4.7W (MAX)
	Read/Write : 2.0/2.1W (TYP)
	During Wait : 0.65W(TYP)
Interface	ATA
Operation Lifetime	5 years, or 20,000 operating hours, whichever comes first

⚠ Important

- This HDD unit has a finite usage lifetime. Therefore, be sure to back up all HDD data regularly and/or prepare a backup HDD unit.
- The HDD unit's lifetime will vary, depending on the usage conditions and environment. The above value is calculated assuming an ambient temperature of 20°C and 333 hours of operation per month. (HDD access frequency of 20% or less)

■ Environment

Operating Temperature	5^oC to 50^oC
Storage Temperature	-10^oC to $+60^oC$
Ambient Humidity	10%RH to 85%RH (no condensation) Wet bulb temperature: 29^oC or less
Noise Resistance (via Noise Simulator)	Noise Voltage: 1500Vp-p Pulse Width: 50ns, 500ns, $1\mu s$
Electrostatic Discharge Immunity	6kV
Vibration Resistance	$4.9m/s^2$ (10Hz to 25Hz) (When Operating)
Shock Resistance[*1]	$3920m/s^2$ (1ms, Half-sine shock pulse)

*1 In factory-packed condition.

Important

- The environment specifications given here are for a unit installed in a PL, that is built into a solid panel.

- Pro-face does not guarantee the preservation of any data stored on the HDD unit if the HDD unit has an accident, malfunctions or is damaged in any way. Therefore, the regular backing up of important HDD unit data to either a floppy disk, or other type of suitable magnetic media is strongly recommended.

- This HDD unit has a finite usage lifetime. The lifetime figure given in this document's Features is for reference, and the regular exchanging of the current HDD unit for a new HDD unit is strongly advised.

- Using the HDD unit in an environment that is excessively hot and/ or humid will shorten the disk's usage lifetime. A wet bulb temperature of 29°C or less is recommended. This is equivalent to the following data.

Temperature	Humidity
at 35^0C	no higher than 64%
at 40^0C	no higher than 44%

- In order to extend the lifetime of the hard disk, Pro-face recommends you set the Windows [Control panel]-[Power Management option]-[Turn off hard disks] selection to turn the hard disk off when the unit is not being operated. A setting of 5 minutes is recommended.

2 Installation

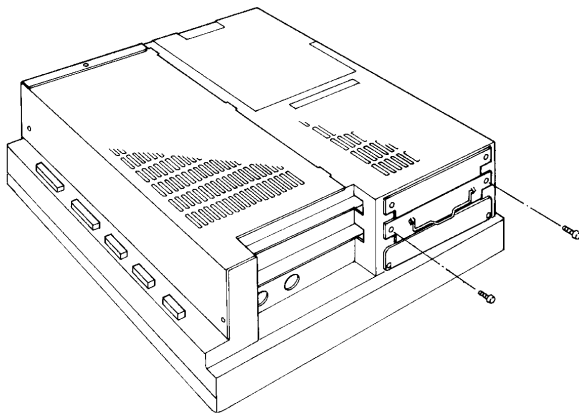Use the following steps to install the HDD unit in the PL.

⚠ WARNING

Shock Danger!   Be sure to unplug the PL unit from its power supply prior to installing the HDD unit.

⚠ Important Since the HDD unit is a precision instrument that has a low resistance to shocks, be sure it is neither hit by nor pressed strongly against another object when installing it.

1) Unscrew the expansion slot's two (2) blank panel screws, and remove the blank panel.
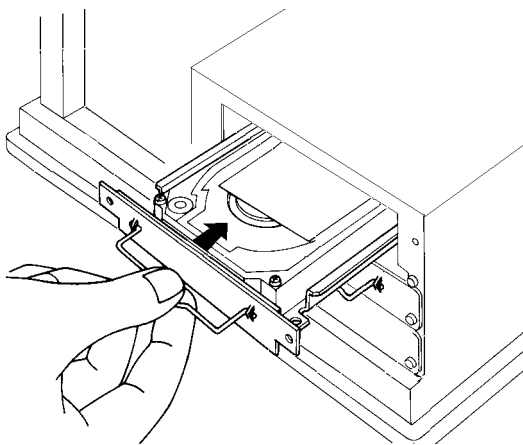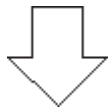
2) Hold the HDD unit's removal handle and slide the unit slowly into the expansion slot, until the rear face connector is completely inserted into the slot's connector pins.

3) Reattach the two (2) expansion slot cover attachment screws.

✎ Note: When installing an HDD unit in other Expansion Slots, use the above installation procedures.

3 Hardware Setup

The HDD unit's installation and system data settings are as follows.

1) Install the HDD unit in the PL. Refer to *2 Installation* for details. If the HDD unit is already installed, this step is not necessary.

2) Connect a keyboard to the PL.

3) Turn on the PL unit's power supply and use the following steps to set up the system data and recognize the HDD unit.

! **Important**
- Normally, use the factory (initial) settings.
- Your PL unit's system data screen menus may differ slightly from these due to installation of newer software.
- The following explanation uses the PL unit's factory settings.

4) When the "Press <DEL> to enter SETUP" message appears, press your PC's DEL key.

The Setup utility will start. Select the [Standard CMOS Features] and the following screen will appear.

```
            CMOS Setup Utility - Copyright (C) 1984-2001 Award Software
                               IDE Primary Master
    ┌──────────────────────────────────────────────────┬──────────────────────┐
    │                                                   │      Item Help       │
    │   IDE HDD Auto-Detection [Press Enter]            ├──────────────────────┤
    │                                                   │  Menu Level  ▶ ▶     │
    │   IDE Primary Slave          [Auto]               │                      │
    │   Access Mode                [Auto]               │  To auto-detect the HDD's size, │
    │                                                   │  head.... on this channel │
    │   Capacity                   0 MB                 │                      │
    │                                                   │                      │
    │   Cylinder                   0                    │                      │
    │   Head                       0                    │                      │
    │   Precomp                    0                    │                      │
    │   Landing Zone               0                    │                      │
    │   Sector                     0                    │                      │
    │                                                   │                      │
    │                                                   │                      │
    ├──────────────────────────────────────────────────┴──────────────────────┤
    │   ↑↓→←: 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 whether "AUTO" is selected in the Master screens. If AUTO is selected in both, disk parameters will be automatically read when the PL is turned ON. If AUTO is not selected, change these settings to AUTO. The factory setting is AUTO and recommended for most users. (When using together with HDD unit.)

6) After changing all settings, press the ESC key and select [Save & EXIT Setup] to save the settings. The OS will then start.

4 OS Setup

■ Software Design

Your Windows® 2000 Multi Language preinstalled hard disk unit contains the following software.

- Microsoft corporation's Windows® 2000 Professional OS
- DMC corporation Mouse Emulation Software (TSC-1310D/DD)
- Keyboard Emulator Keyclick32
- Pro-face's PL utility software and drivers

■ Windows® 2000 Setup Procedure

Note: **A detailed explanation of the software, as well as a list of the revisions made after the printing of this document can be found in the HDD unit and the Recovery CD-ROM's README.txt files.**

1) Once the PS-B unit's power is turned ON, this HDD unit's [Windows 2000 Professional Setup] screen, and then the [Welcome to the Windows 2000 Setup Wizard] will appear. Click on [Next].
2) The [License Agreement] screen will appear.
   After reading the contents, press [I accept this agreement] if you agree, and click [Next] to continue.
3) The [Regional Settings] screen will appear.
   After entering the data for your area, click [Next] to continue.
4) The [Personalize Your Software] screen will appear
   After entering your name [Name] and [Organization], click on [Next] to continue.
5) The [Your Product Key] screen will appear.
   After entering the product key data, click on [Next] to continue.
6) The [Computer Name and Administrator Password] screen will appear.
   Enter the [Computer Name and Administrator Password], and [Confirm Password], then click [Next] to continue.
   When entering the [Computer Name], if the name shown on the display is not correct, you can enter another name. When the computer is connected to a network, be sure to ask your network manager what is the correct name for this field.
7) The [Date and Time Settings] screen will appear.
   After entering these settings, select [Next] to continue.
8) [Network Settings] screen will appear.
   Choose whether to use typical or custom settings depending on your PC circumstantce.
9) [Workgroup or Computer Domain] screen will appear.
   Choose wheter to make your PC on a network or not depending on your PC circumstance.

10) [Performing Final Tasks] is automatically done by the PS-B.

The [Completing the Windows 2000 Setup Wizard] will appear.

Press [Finish] and the system will automatically restart.

11) When the [Network Identification Wizard] screen and the [Welcom to the Network Identification Wizard] is started, please press [Next]. The [Users of This Computer] screen will appear. After entering the desired settings, press [Next] and then press the [Finish] button.

12) The [Selection of a Display] screen will appear.

Select the PL Series name you are using and the diplay size will be adjusted.

The sysytem will automatically restart, now you can use the Windows® 2000.

5 | Multi Language

The Windows® 2000 Multi Language Preinstalled Hard Disk Unit contains the following languages;

Chinese (Simplified)	English	Hungarian	Russian
Chinese (Traditional)	Finnish	Italian	Spanish
Czech	French	Polish	Swedish
Danish	German	Portuguese (Brazil)	Turkish
Dutch	Greek	Portuguese (Portugal)	

■ Designating the Language

1) Select the Windows® 2000 [Start] menu's [Settings], then [Control Panel] command.

2) Select the [Regional Options] command.

3) Select the appropriate language from "Menu and dialogs:" in the "General" tab.

6 | HDD Recovery Procedure

!
Important

- *After performing hard disk recovery, the PL unit's hard disk is returned to its factory shipped condition.*

- *A USB-type CD-ROM drive cannot be used to start the Recovery CD. Be sure to use Digital's CD-ROM drive unit (PL-DK200/PSS-CD01).*

Use the following steps used to recover the Windows® 2000 Multi-Language Preinstalled Hard Disk.

1. Insert the Recovery CD's Disk 1 into the CD-ROM drive and turn the PL unit's power ON. Immediately after the power turns ON, keep pressing the [Del] key. The unit's BIOS setup screen will appear.

2. Select [CDROM] for [First Boot Device] of [Advanced BIOS Features].

3. Press the [F10] key to save the setting and restart the PL unit.

4. After the PL unit restarts, the Symantec Ghost™ will automatically start.

5. After the Symantec Ghost™ starts, the [Question] dialog box will appear.
   "Partition sizes correct?"

6. The volume displayed in New Size will be recovered. After confirming it, press the [Yes] button. To change it, press the [No] button and go to the [Destination Drive Details] dialog box. In the [Destination Drive Details] dialog box, change the size of the New Size and press the [OK] button.

7. The [Question] dialog box will appear. Press the [Yes] button. It will be recon-firmed that the data of the hard disk is all reset to the original values at the time of delivery.
   "Proceed with disk restore?
   Destination drive will be permanently overwritten."

8. The Recovery CD's Disk 1's hard disk recovery program will start.
   After a while, the [Span Volume [1] Done] dialog box will appear. Replace the Recovery CD's Disk 1 in the CD-ROM drive with the Recovery CD Disk 2 and press the [OK] button. Follow the same step for the Recovery CD Disk 3 and press the [OK] button.

9. After the recovery operation finishes, Symantec Ghost™ finishes and the fol-lowing message will appear. After the message appears, turn off the power supply of the unit.
   "Please turn off the computer."

10. After turning on the power supply once again, push the [DEL] key to go to the BIOS Setup Screen.

11. In the Setup screen, set Load Optimized Defaults to reset all BIOS settings to their original values at the time of delivery. When using FD, set [1.44M, 3.5 in] for [Drive A] of [Standard CMOS Features]. Press the [F10] key to save the settings and restart the unit.

12. After the unit restarts, set up your OS.
    ▽Reference△ *4 OS Setup*

⚠ **Important**

- **If the hard disk unit breaks down due to a hardware prob-lem, (Ex. if BIOS cannot find the hard disk, if the hard disk's lifetime expires, or it breaks down), Symantec Ghost™ cannot recover the hard disk. Pro-face recom-mends that in this case you contact your local PL distribu-tor for instructions about hard disk recovery or replace-ment.**

- **Pro-face does not guarantee the preservation of any data stored on the HDD unit if the HDD unit has an accident, malfunctions or is damaged in any way. Therefore, the regular backing up of important HDD unit data to either floppy disks, or other type of suitable magnetic media is strongly recommended.**

7   When using PL-B920 Series Unit

The connection method used can be via either a serial or USB interface. Also, the type of OS and Touch Panel Device Driver (mouse emulator) used will depend on the type of connection method used for the display and for the touch panel.

Display Type	Touch Panel Connection	Touch Panel Device Driver (Mouse Emulator)
PL-DU6900 PL-DU7900	Serial (RS-422)	U-TP (Gunze Inc.)[1][2]
	USB	USB Touch Panel Device Driver[2] (included with DU)
FP-2500 FP-2600	Serial (RS-232C)	Perform calibration
	USB	[3]
FP-790	Serial (RS-232C)	U-TP (Gunze Inc.)[1][2]

*1 For product details, please contact your local PL distributor or representative.

*2 Use the [Control Panel] area's [Add/Remove Programs] feature to remove the [Universal Pointer Device Driver]. Then, install the [Touch Panel Device Driver].

*3 Use the [Control Panel] area's [Add/Remove Programs] feature to remove the [Universal Pointer Device Driver].

Use the "RUN" feature to start up the [C:\Proface\Updd\Setup.exe] file. When the list of drivers appears, select "Digital.TSC-1310D Series.USB" and follow the instructions given to complete the driver installation.

When the connection method is changed to USB, the following BIOS level System settings must also be changed.

▼Reference▲ *BOX-Type Industrial Computer PL-B920 Series User Manual*
Chapter 5 - System Setup

System Setting Menu	Setting Item	USB Setting
Integrated Peripherals	USB Controller	Enabled
	Onboard Serial Port 4	Disabled
PnP/PCI Configuration	Assign IRQ For USB	Enabled

When the DU display unit is used, the PL's dip switch settings must also be changed. For details,

▼Reference▲ *BOX-Type Industrial Computer PL-B920 Series User Manual*
2.4 PL Part Names and Features

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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