

# **Installation Manual**

## **Profile Family**

### **PLS20 Data Tape Drive**

**Tektronix**

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# Safety Summary

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Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it.

*Only qualified personnel should perform service procedures.*

While using this product, you may need to access other parts of the system. Read the *General Safety summary* in other system manuals for warnings and cautions related to operating the system.

## Injury Precautions

### **Use Proper Power Cord**

To avoid fire hazard, use only the power cord specified for this product.

### **Ground the Product**

This product is grounded through the grounding conductor of the power cord. To avoid electric shock, the grounding conductor must be connected to earth ground.

### **Do Not operate in Wet/Damp Conditions**

To avoid electric shock, do not operate this product in wet or damp conditions.

### **Do Not Operate in an Explosive Atmosphere**

To avoid injury or fire hazard, do not operate this product in an explosive atmosphere.

## Product Damage Precautions

### **Use Proper Power Source**

Do not operate this product from a power source that applies more than the voltage specified.

### **Provide Proper Ventilation**

To prevent product overheating, provide proper ventilation.

### **Do Not Operate With Suspected Failures**

If you suspect there is damage to this product, have it inspected by qualified service personnel.



## Safety Terms and Symbols

### Terms in This Manual

These terms may appear in this manual:



**WARNING:** Warning statements identify conditions or practices that can result in personal injury or loss of life.



**CAUTION:** Caution statements identify conditions or practices that can result in damage to the equipment or other property.

### Terms on the Product

These terms may appear on the product:

**DANGER** indicates a personal injury hazard immediately accessible as one reads the marking.

**WARNING** indicates a personal injury hazard not immediately accessible as you read the marking.

**CAUTION** indicates a hazard to property including the product.

### Symbols on the Product

The following symbols may appear on the product:



**DANGER** high voltage



Protective ground (earth) terminal



**ATTENTION** – refer to manual

## **Tektronix Product Support**

You can get technical assistance, check on the status of problems, or report new problems by contacting our Product Support Group.

### **United States and Canada**

**(800) 547-8949**

Monday–Friday 6:00AM–5:00PM Pacific Time

### **Europe**

Monday–Friday 9:00AM–5:30PM

|            |                 |                |                 |
|------------|-----------------|----------------|-----------------|
| Austria    | 222-799-3535    | Netherlands    | 010-495-4255    |
| Belgium    | 02-714-3401     | Norway         | 22-83-85-69     |
| Denmark    | 3543-5259       | Spain          | 91-564-4692     |
| Finland    | 161-691-98559   | Sweden         | 08-679-8419     |
| Germany    | 069-935-25001   | Switzerland    | 041-210-6009    |
| Italy      | 44-1908-681-706 | United Kingdom | 01908-681-703   |
| Luxembourg | 400-848         | Other          | 44-1908-681-703 |

**E-mail:** EuroProfile@tek.com

### **Asia and South America**

|           |                |           |                |
|-----------|----------------|-----------|----------------|
| Australia | 61-2-888-7066  | Korea     | 82-2-528-5299  |
| Brazil    | 55-11-543-1911 | Mexico    | 52-5-666-6333  |
| Hong Kong | 852-2585-6688  | Singapore | 65-356-3900    |
| Japan     | 81-3-3448-3111 | Taiwan    | 886-2-765-6362 |

### **World Wide**

**(503) 685-2345 24-hour Emergency Hotline**  
(Contract and warranty customers)

**World Wide Web** <http://www.tek.com/VND/>

**FTP Site** <ftp.tek.com>

**E-mail** [ProfileSupport@tek.com](mailto:ProfileSupport@tek.com)



## Certifications and Compliances

### **Canadian Certified Power Cords**

Canadian approval includes the products and power cords appropriate for use in the North America power network. All other power cords supplied are approved for the country of use.

### **FCC Emission Control**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by Tektronix can affect emission compliance and could void the user's authority to operate this equipment.

### **Canadian EMC Notice of Compliance**

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

### **Canadian Certified AC Adapter**

Canadian approval includes the AC adapters appropriate for use in the North America power network. All other AC adapters supplied are approved for the country of use.

### **EN55022 Class A Warning**

For products that comply with Class A. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.



## Certification

| Category | Standard  |
|----------|---|
| Safety   | <i>Designed/tested for compliance with:</i><br><b>UL1950</b> - Safety of Information Technology Equipment, including Electrical Business Equipment (First Edition)<br><b>CAN/CSA C22.2, No. 950-M89</b> - Safety of Information Technology Equipment, including Electrical Business Equipment<br><b>EN60950:1992 +A1 +A2:1993</b> - Safety of Information Technology Equipment, including Electrical Business Equipment |



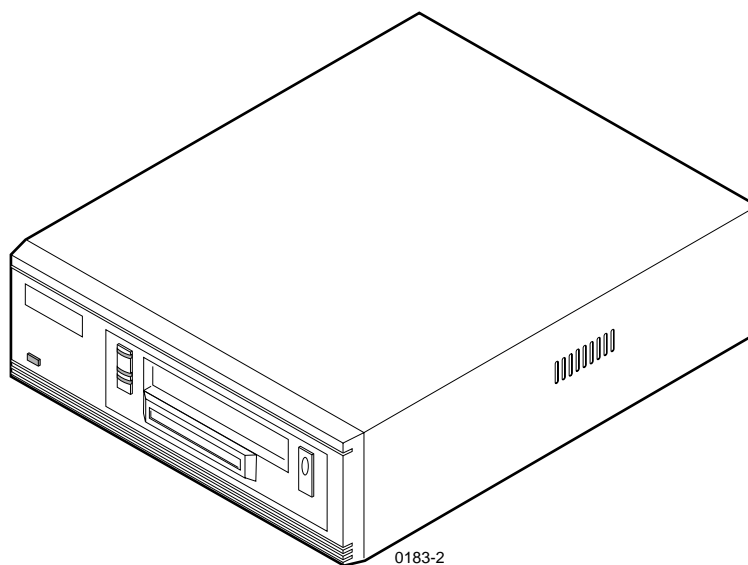
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*Safety Summary*

## **Welcome**

Congratulations on selecting the PLS20 Profile Data Tape Drive. The PLS20 lets you quickly (up to 3 megabytes per second) and economically store your audio and video material from your Profile Professional Disk Recorder on durable data tape cartridges for archive purposes, or to move material to remote locations without video networking.

The PLS20 Profile Data Tape Drive tape drive is a tabletop model housed in its own enclosure (shown in Figure 9).



**Figure 9. The PLS20 Profile Data Tape Drive**



## Installing the PLS20

The following sections explain how to install a Profile Data Tape Drive and connect it to a PDR 100 or PDR 200 Professional Disk Recorder.

### Location of components

When installing the PLS20, refer to Figure 10 for the location of components on the rear panel.

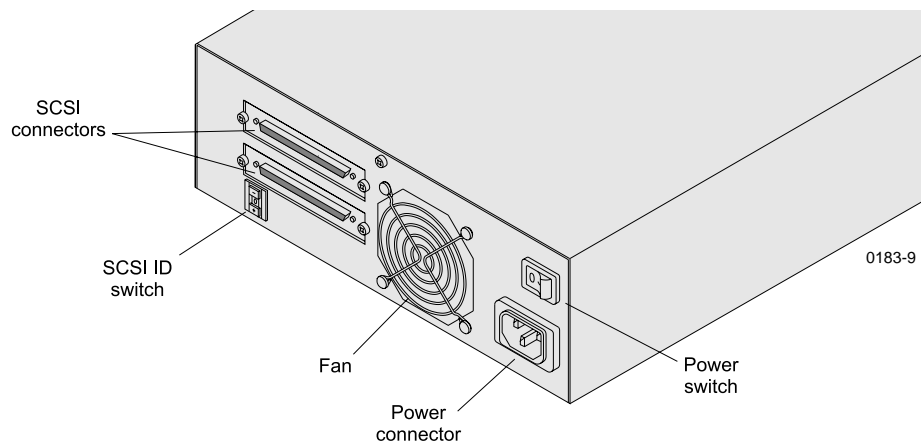


Figure 10. Component locations

### Set the SCSI ID

To set the SCSI ID for the tape drive, use a pen or other fine-tipped instrument to press the SCSI ID switch. Set the SCSI ID to 1 or 2., and ensure that no other SCSI device on the bus is using the same ID.

***NOTE: Changes in the SCSI ID setting take effect after a normal power-on or SCSI bus reset.***

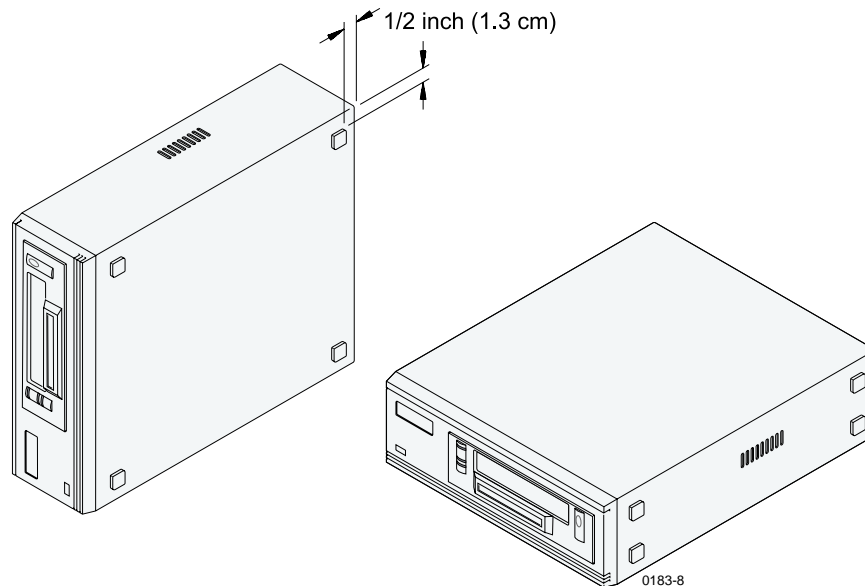
## **Install the Orientation Pads**

The tabletop model includes adhesive pads that you must apply to either the base or the right side, depending on how you plan to position the tape drive. These pads protect the tape drive's surface and allow air to flow through the vents when the tape drive is positioned on its side.

To install the pads:

1. Remove the backing from four pads. (Five pads are shipped with the tape drive.)
2. Affix the pads to each corner, approximately 1/2-inch (1.3 cm) from the sides.

*For a horizontal orientation, place the pads on the bottom. For a vertical orientation, place the pads on the right side (the side with the external vents).*



**Figure 11. Installing the orientation pads**

**>>> *If you want to position the tape drive on its side, you must place the pads on the right side. Otherwise, the air flow vents will be blocked and the enclosed tape drive will overheat.***



---

## Connect the Drive to the SCSI Bus

The PLS20 receives both data and commands through a single SCSI connector. Figure 12 shows examples of how to connect your tape drive to a Profile system.



***CAUTION: To avoid damaging the tape drive and the Profile Professional Disk Recorder, make sure that both devices are powered off when you connect the cables on the back.***

1. Connect the tape drive to one of the SCSI ports on the Profile rear panel with the provided cable.
  - a. On a PDR 100, connect to the SCSI A or SCSI B connector, or to another device in the chain connected to that bus.
  - b. On a PDR200, connect to the SCSI B or SCSI D connector, or to another device in the chain connected to that bus.
2. If the tape drive is the last device on the SCSI bus, install a terminator on the other connector. If it is not the last device, connect another SCSI cable. Do not install more than four Profile Data Tape Drives to a single Profile system.

***NOTE: You may not connect a PLS200 Profile Library System and a PLS20 Profile Data Tape Drive to the same Profile system. However, you may connect up to four Profile Data Tape Drives to the same Profile system, provided you do not exceed two PLS20s per SCSI bus.***

See Appendix A for cable and terminator requirements.

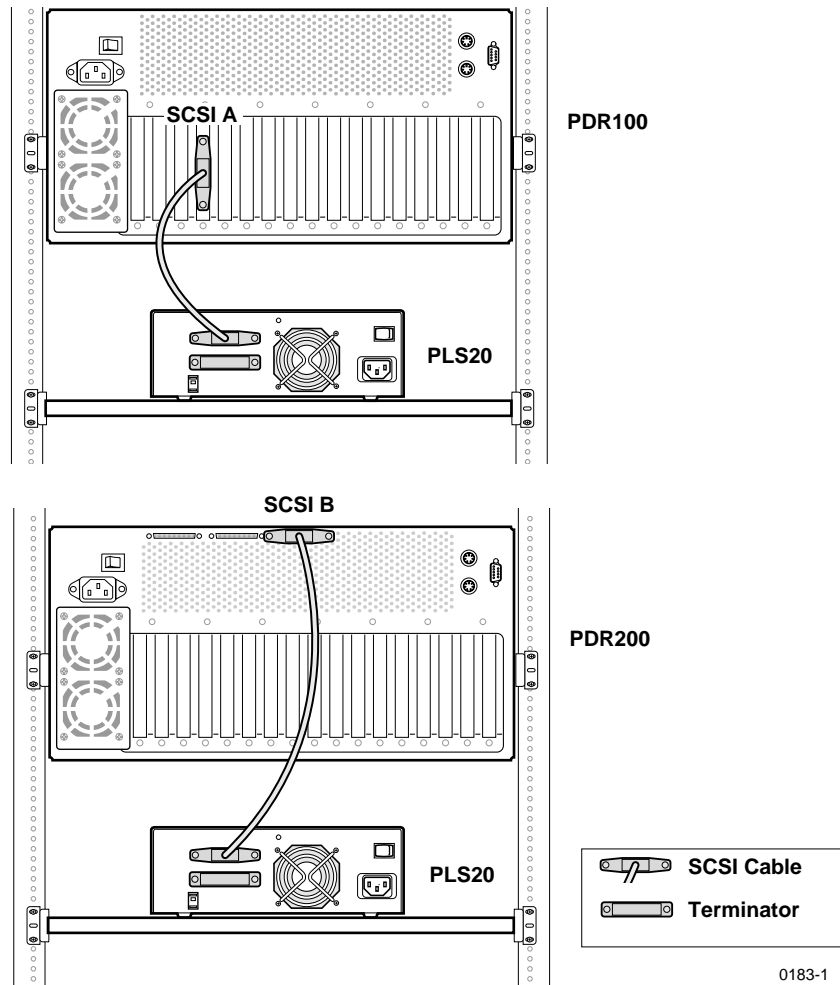


Figure 12. SCSI Bus Connections



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## Connect Power

To connect power to the tape drive:

1. Connect the power cord to the back.
2. Press the power switch to the on (I) position.

*Be sure to power on the PLS20 before starting the Profile system to ensure that the Profile Data Tape Drive is recognized as a SCSI device.*

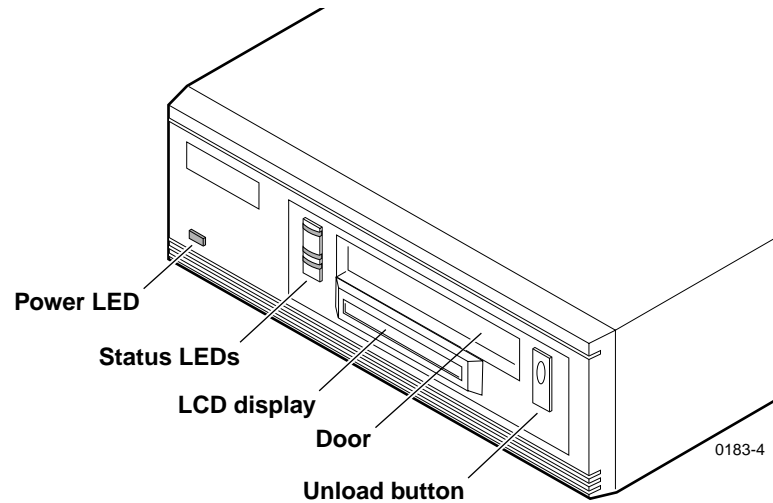
The tape drive performs its power-on self-test in about 30 seconds. When the tape drive is ready to accept a cartridge, the LEDs turn off.

- **Important: Do not insert a cartridge into the tape drive during the power-on self-test. The tape drive will eject the cartridge.**



## Operating the Tape Drive

This section describes how to operate your PLS20 Profile Data Tape Drive. Figure 13 below shows the front-panel components used for tape drive operation.



**Figure 13. PLS20 Front Panel Components**

### Monitoring the Status LEDs

The status LEDs have the following, general meanings:

- **Top LED (amber)**. When this LED is flashing, an error has occurred. When this LED is on solid, the tape drive needs to be cleaned (see page 14).
- **Middle LED (green)**. When this LED is on, tape is loaded and the tape drive is ready to begin operations.
- **Bottom LED (green)**. When this LED is flashing, tape motion is occurring.



Table 1 describes the LED combinations that occur during normal tape drive operation.

**Table 1. LED status**

|                                   | Tape Drive State              |                               |                              |                           |                          |                         |                  |                      |
|-----------------------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|--------------------------|-------------------------|------------------|----------------------|
|                                   | POST <sup>a</sup><br>or reset | Error<br>or<br>failed<br>POST | Ready<br>(no tape<br>loaded) | Ready<br>(tape<br>loaded) | Normal<br>tape<br>motion | High<br>speed<br>motion | Time to<br>clean | Clean in<br>progress |
| Top LED<br>(Error/Clean)          | ●                             | *                             | n/a                          | n/a                       | n/a                      | n/a                     | ●                | ●                    |
| Middle<br>LED<br>(Tape<br>Ready)  | ●                             | ○                             | ○                            | ●                         | ●                        | ●                       | n/a              | ●                    |
| Bottom<br>LED<br>(Tape<br>Motion) | ●                             | ○                             | ○                            | ○                         | *                        | *<br>fast               | n/a              | *                    |

a. POST = power-on self-test.

**Legend:** ○ = off   ● = on   \* = flash   n/a = not applicable (may be any state)

## Monitoring the LCD

If the tape drive includes an LCD, refer to the following table for a detailed list of messages that may appear.

**Table 2. LCD Message Descriptions**

| <b>Reset messages.</b>  |   |
|---|---|
| <b>(When the tape drive is reset, the LCD cycles through the following messages.)</b> |   |
| RESET   | The first message in the power-on sequence.   |
| MODEL:  | The model number of the tape drive.   |
| SUBMOD:   | The submodel number of the tape drive.  |
| SN:   | The serial number of the tape drive.  |
| CODE:   | The level of the tape drive's firmware.   |
| LAST CLN: <i>nn</i> hrs   | The number of hours since the tape drive has last been cleaned.   |
| COMPRESS: ON <i>or</i><br>COMPRESS: OFF   | Compression is turned on or on. Must be off for operation with a Profile Professional Disk Recorder.  |
| SINGLE-ENDED <i>or</i><br>DIFFERENTIAL  | The tape drive has a single-ended or differential SCSI configuration. Must be Differential.   |
| WIDE <i>or</i> NARROW   | The tape drive has a wide or narrow SCSI configuration. Must be wide.   |
| SCSI ID: <i>nn</i>  | The SCSI ID of the tape drive.  |
| LANGUAGE:   | The available foreign languages for the LCD appear when you perform the following steps: <ol style="list-style-type: none"> <li>1. Press and hold the unload button during the reset sequence. After the SCSI ID message appears, the LCD cycles through the languages.</li> <li>2. When the desired language displays, release the button and the messages appear in that language.</li> </ol> |



**Table 2. LCD Message Descriptions**

| <b>Tape drive status messages</b> |  |
|-----------------------------------|--|
| READY-NOTAPE                      | The tape drive is ready to accept a cartridge.   |
| ○ <sup>↑</sup> ○ LOADING . . . .  | The tape drive is loading the tape.  |
| ○ <sup>↑</sup> ○ READY-TAPE       | The tape drive has successfully loaded the tape and is ready for read/write operations.  |
| ○ <sup>↑</sup> ○ EJECT ■■■=====   | The unload button was pressed. The tape drive will eject the cartridge as soon as it has finished its current operation. The icon to the left of the Eject message indicates the current sub-operation (write, erase, etc.). |
| ○ <sup>↑</sup> ○ EJECT PREVNT     | The software has disabled the eject function with the PREVENT/ALLOW MEDIA REMOVAL command. The tape drive will rewind and unload the tape, but will not eject the cartridge.   |
| ○ <sup>↑</sup> ○ ILLEGAL TAPE     | The tape drive detected an incompatible cartridge and ejected it.  |
| <b>Tape motion messages</b>       |  |
| ○ <sup>↑</sup> ○ READ +■■■=====   | The tape drive is reading or writing data.<br>The + sign appears when the data is compressed. The boxes show the amount of tape used.  |
| ○ <sup>↓</sup> ○ WRITE+■■■=====   |  |
| ○/○ PROTECTED                     | The tape drive cannot write data because the data cartridge is write-protected.  |
| ○/○ ILLEGAL WRT                   | The tape drive cannot write to the type of data cartridge inserted. This message remains until an appropriate tape is inserted or a tape motion command is issued.   |
| >> SEARCH ■■=====                 | High-speed search is in progress. The arrows indicate either a forward or backward search.   |
| << SEARCH ■■=====                 |  |
| << REWIND ■■=====                 | Rewind is in progress.   |
| ○X○ ERASE ■■=====                 | The tape drive is erasing data on the tape.  |

Table 2. LCD Message Descriptions

|  |  |
|--|--|
| FORMAT ■■■■■■  | The drive is repartitioning the tape to the requested format. The icon to the left of the message displays the current sub-operation (write, erase, search, etc.).                                   |
| <b>Cleaning messages</b>   |  |
| ○ <sup>♦</sup> ○ CLEAN SOON  | The tape drive should be cleaned at the next convenient time.  |
| ○ <sup>♦</sup> ○ MUST CLEAN  | The tape drive must be cleaned after a metal particle tape has been used in the drive. If you attempt to insert an AME data cartridge before cleaning the tape drive, the cartridge will be ejected. |
| ○ <sup>♦</sup> ○ CLEANING . . .  | Cleaning is in progress.   |
| ○ <sup>♦</sup> ○ DEPLETED  | The cleaning tape in the cartridge is depleted and the tape drive will eject it. Use a new cleaning cartridge.   |
| <b>Error conditions</b><br>(When a hardware error occurs, the LCD cycles through the current error code and the previous three error codes.) |  |
| ERR 1: xx yy zz<br>ERR 2: xx yy zz<br>ERR 3: xx yy zz  | In the error display, xx indicates the fault symptom code, and yy and zz indicate secondary errors (if any). If an error appears, contact Exabyte Technical Support.                                 |



## Selecting Appropriate Data Cartridges

For writing data, use only Profile 170m advanced metal evaporated (AME) data cartridges, as shown in Figure 14. You must use Profile Media Manager to format these cartridges before using them in a PLS20 connected to a Profile Professional Disk Recorder. See the *Profile Family User Manual* for information on running Profile Media Manager.

Data cartridges are completely interchangeable between a PLS20 Profile Data Tape Drive and a PLS200 Profile Library System.

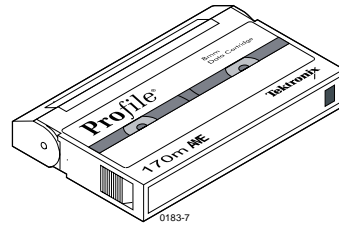


Figure 14. A PLS20 170m tape cartridge

## Loading Data Cartridges

To load a cartridge:

1. Make sure the tape drive is ready to accept a cartridge (all LEDs are off). Do not insert a cartridge if the tape drive is still performing its power-on self-test.
2. Set the write-protect switch for the desired operation as shown in Figure 15.

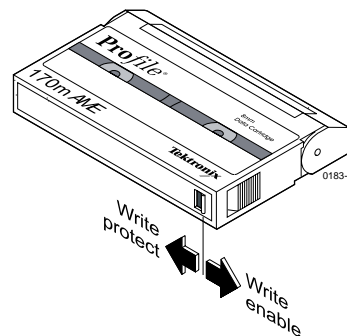
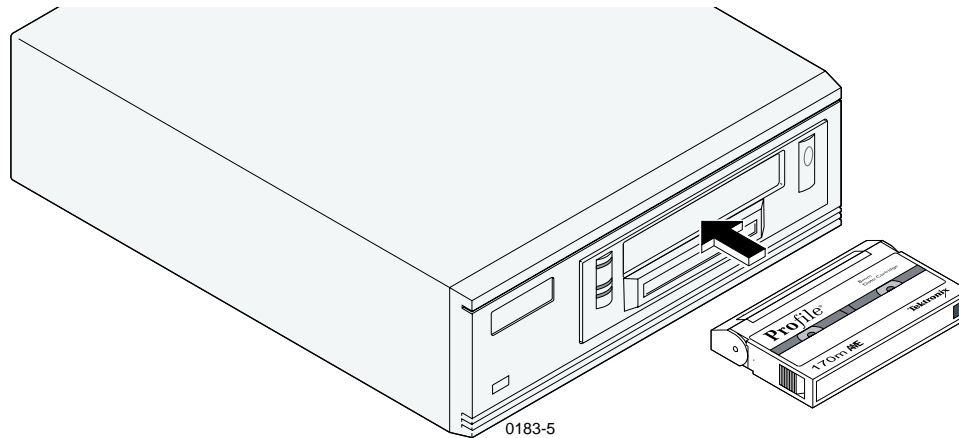


Figure 15. Setting the Write Protection switch

3. Insert the cartridge as shown in the Figure 16.



**Figure 16. Inserting the tape cartridge**

The tape drive loads the tape in approximately 20 seconds. When the middle LED is on, the tape drive is ready for read and write operations.

## Unloading Data Cartridges

In normal operation, you should use the appropriate command in Media Manager (or any other Profile application that supports Profile Library Systems) to eject or export a data tape from the PLS20. See the *Profile Family User Manual* for information on running Profile Media Manager.

In some cases, such as when the PLS20 is not connected to a Profile system, you may have to manually unload a data tape from the PLS20.

To unload a cartridge, press the unload button. **Do not press and hold the unload button for more than 10 seconds; this can cause a reset under certain conditions.** If the tape drive is free of errors, it performs the following actions in about one minute:

- Completes any command in process
- Writes any buffered information to tape
- Rewinds the tape to the beginning
- Unloads the tape and ejects the cartridge



---

***NOTE: If an error occurs before or during the unload procedure, the tape drive suspends the unload sequence. To clear the error, press the unload button again. The tape drive reattempts the unload sequence, but does not write data in the buffer.***

## **Resetting the Tape Drive**

To reset the tape drive, press and hold the unload button for at least 10 seconds, or power the drive off and back on again.

***If you reset the tape drive while a cartridge is loaded, it rewinds the tape to the beginning after the reset is complete. The reset may take as long as two minutes if the tape is positioned near the end.***

## **Cleaning the Tape Drive**

When the tape drive requires cleaning, the top (amber) LED turns on. You should clean the tape drive as soon as possible after this LED turns on. The tape drive's cleaning requirements depend on the number of tape motion hours

To clean the tape drive, insert an Profile 8mm Cleaning Cartridge (or a cleaning cartridge approved by Tektronix for use with the PLS20). When finished, the tape drive turns off the top LED and ejects the cleaning cartridge.

Cleaning cartridges generally have a useful life of about 12 cycles. Be sure to change your cleaning cartridges often to ensure the best results.



## **Packing the Tape Drive**

If you are shipping the tape drive to another location or returning it for repair, pack the tape drive in its original shipping container and packing materials.



***CAUTION:*** *To avoid damaging the tape drive and voiding your warranty, use the original shipping materials (or replacement materials from your dealer).*

- **Important:** **If you are returning the tape drive for service, remove and keep all cartridges, cables, and terminators.**

If you are returning the tape drive to Tektronix, contact Tektronix Product Support at a number listed at the front of this manual to obtain an RMA number.



## Specifications

The following tables provide specifications for the PLS20 Profile Data Tape Drive when used with a Profile Professional Disk Recorder.

**Table 3. Tape capacity**

| Maximum Data Capacity |              |
|-----------------------|--------------|
| Tape Length           | Data         |
| 170m <sup>a</sup>     | 20 gigabytes |

a. PLS20 and PLS200 do not support 22m tapes

**Table 4. Data rate**

| Maximum Data Transfer Rates        |           |
|------------------------------------|-----------|
| Compressed video data <sup>a</sup> | 3 MB/sec. |

a. Tape drive compression is not used on compressed video data.

**Table 5. Environmental specifications**

| Operating Environment Specifications |   |
|--------------------------------------|---|
| Tape Path Temperature Range          | +5° C to +45° C<br>(+41° F to +104° F)            |
| Relative Humidity                    | 20% to 80%; non-condensing                        |
| Wet Bulb                             | 26°C (79°F) max                                   |
| Altitude                             | -304.8 m to +3,048 m<br>(-1,000 ft to +10,000 ft) |

**Table 6. Input voltages**

| <b>Input Voltages</b>              |  |
|------------------------------------|--|
| Automatic input voltage selection. | Accepts 120 or 240 VAC at 50 to 60 Hz. |

**Table 7. SCSI cable specifications**

| <b>SCSI Cable Specifications</b> |  |
|----------------------------------|--|
| Type                             | Fast Wide Differential                                       |
| Connector type                   | Wide<br>68-pin male, high-density, shielded,<br>AMP 750752-1 |
| Length (maximum) <sup>a</sup>    | Differential<br>25 meters (82 feet)                          |

a. Each PLS20 tape drive attached to the SCSI bus uses 0.4 meters (1.31 feet) of cable length internally. To determine the total length, add 0.4 meters (1.31 feet) to the length of cable used on the bus for each tabletop tape drive.

**Table 8. Terminator specifications**

| <b>Terminator Specifications</b> |                                   |
|----------------------------------|-----------------------------------|
| Wide Differential                | Tektronix Part Number 011-0166-00 |



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