

Model PD-4

(Physical Hard Drive Destroyer)

Operation Manual



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Declaration of Conformity

Certificate of Conformance

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The Pulver Laboratories Product Certification Label appearing on the above models indicates conformance to the Electromagnetic Emission, Electromagnetic Compatibility, and Product Safety Standards and criteria listed in this Certificate of Conformance.

Tested and evaluated to the following standards with resulting Verifications:

Product Safety Standards and Jurisdictional Organizations

- American National Standards Institute / National Fire Protection Agency 70; 2005, National Electrical Code (NEC).
- American National Standards Institute / National Fire Protection Agency 79: 2007, Electrical Standard for Industrial Machinery.
- American National Standards Institute / Underwriters Laboratories Inc. 508-1988 Industrial Control Equipment. 16th Edition, 23 February 1993 with revisions to 16 April 1996.
- American National Standards Institute / Underwriters Laboratories Inc. 508C- Power Conversion Equipment. First Edition, 22 December 1993 with revisions to 24 June 1996.
- C22.1-02 Canadian Electrical Code, Part I (19th Edition), Safety Standard for Electrical Installations.
- Economic European Community 73 / 23, Low Voltage Directive.
- EN 292-2: 1991 Safety of Machinery - Basic concepts, general principles for design: Part 2: Technical principles and specifications published by the European Committee for Electrotechnical Standardization (CENELEC).
- EN 60204-1: 2006 Safety of Machinery - Electrical Equipment of Machines: Part 1: General Requirements, published by the European Committee for Electrotechnical Standardization (CENELEC).

Referenced Standards

- Canadian Standards Association C22.2 number 0-M1991, General Requirements – Canadian Electrical Code, Part II.
- EN 61010-1: 2006 Safety requirements for electrical equipment for measurement, control, and laboratory use, published by the European Committee for Electrotechnical Standardization (CENELEC).

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Introduction

Thank you for purchasing the PD-4 Physical Hard Drive Destroyer. The PD-4 will physically destroy working and non-working hard disk drives (HDD), Network HDD, Half-Height HDD, Standard HDD and Laptop HDD by deforming the data platters, pc board and frame of the hard drive.

To ensure a safe operation of the PD-4, please be sure to read and understand the contents of this operation manual before operating the PD-4. We also advise you to keep this manual at hand for a quick reference in the future.

Important Instructions

**PLEASE READ THIS INFORMATION
BEFORE USING MODEL PD-4**

This shipment was packaged and delivered to the carrier with utmost care to ensure safe delivery of goods to you, our valued customer. **PLEASE RETAIN ALL SHIPPING MATERIALS FOR FUTURE USE. FAILURE TO DO SO MAY RESULT IN FREIGHT DAMAGE AND VOID WARRANTY.**

In the event that you must transport model PD-4 to a different location or to the factory for repair service, you must package it for safe delivery. Failure to do so may result in freight damage and will void the factory warranty.

Please contact Garner Products, Inc. at (800) 624-1903 for further information if required.

PD-4 Component Identification

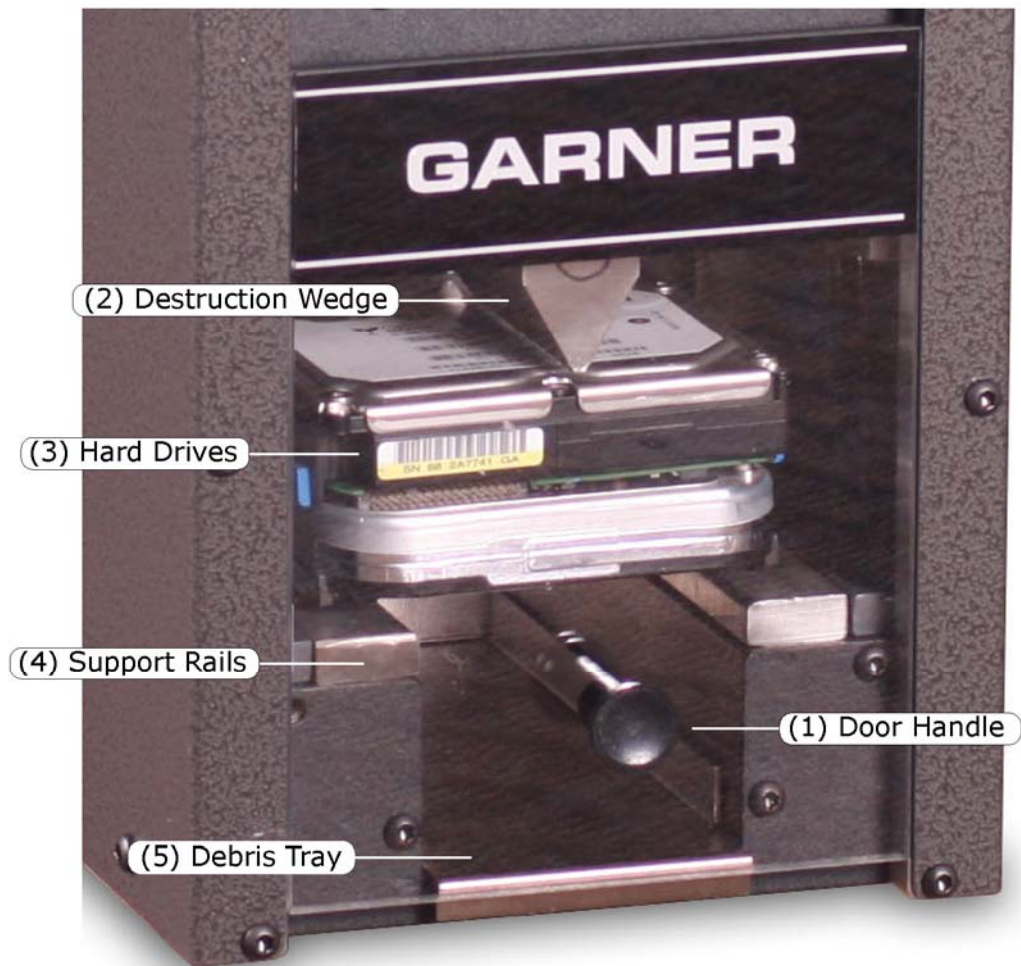
Front Panel Identification



Front Panel Description

| | |
|-------------------|--|
| 1) Power Switch | Applies power to the PD-4. |
| 2) Destroy Button | Initiates the destruction function. Note: When pressed initially with the wedge in the home position and in Auto Mode, the PD-4 will first Auto-size requiring a second push of the "Destroy" button. |
| 3) Size Button | Toggles between Auto-Mode and Manual Mode when held down for three seconds or when Green, Yellow and Blue lights flash in a chasing sequence. In Auto Mode , initiates the Auto-Size function. In Manual Mode each button press moves the destruction wedge down one of four sections. |
| 4) Blue Lamp | Illuminates when the wedge is moving down during Destruction function. |
| 5) Yellow Lamp | Auto Mode: Solid – Indicates Auto-Size function is running. Flashing – Door is open and no media detected. Manual Mode: Solid – Indicates destruction wedge is moving to new position. |
| 6) Green Lamp | Auto Mode: Solid - Indicates ready, the door is closed, media is detected. Flashing – Indicates the door is open and media is detected. Manual Mode: Solid - Indicates ready, the door is closed. Flashing – Indicates the door is open. |
| 7) Front Door | Prevents access to the HDD and Destruction wedge during the destruction process. If opened during the destruction process the destruction wedge will automatically stop. |

Inside Component Identification



Inside Component Description

| | |
|------------------------------|--|
| 1) Door / Door Handle | Prevents access to the hard drives and Destruction Wedge during the destruction process. If opened during the destruction process the destruction wedge will automatically stop. When the door is closed, the destruction wedge will retract.. |
| 2) Destruction Wedge | The Destruction Wedge pushes down on the hard drive(s) bending and breaking the external and internal components, rendering the hard drive inoperable. |
| 3) Hard Drives | Image shows the proper location of two 1" hard drives stacked on top of each other. Note: Hard drives are centered between the two Support Rails. |
| 4) Support Rails | Supports and aligns the hard drive(s). |
| 5) Debris Tray | Removable tray helps collect hard drive debris caused by the destruction process. The Debris Tray can be easily lifted out and emptied. |

Operating the PD-4

Initial Startup

- 1) Unpack the shipping carton/case and take out the PD-4 Physical Destroyer.
- 2) Please make sure that the PD-4 has not been damaged during transportation.
- 3) Please retain all shipping materials for possible future use.
- 4) Confirm power requirements as indicated on label located on back of PD-4.

Sequence of Auto Mode Operation

- 1) Press the "Power Switch" to "ON". The Blue and Green lamps illuminate briefly, the Yellow lamp flashes and the destruction wedge returns to home position.
- 2) Open door and place the hard drive(s) on the Support Rails.
Note: Center the hard drive between right and left Support Rails and ensure the hard drive(s) are pushed to the back (Laptop drives can be oriented perpendicular to the standard drive orientation to mount on both support rails). The Green light will illuminate when the hard drive(s) are detected by the auto-sizing sensors located on the back wall of the destruction chamber.
- 3) Close the door and press the "Size" button.
Notes:
 - a. The PD-4 will automatically size the hard drive(s) and lower the wedge to just above the hard drive and stop. This will happen only on the first hard drive or until the "Size" button is pressed again or the PD-4 is powered off.
 - b. Pressing the "Size" button at anytime during auto mode operation will return the destruction wedge to the home position
- 4) Press the "Destroy" button. The PD-4 will destroy the media in the destruction chamber in a pre-set cycle and return to the previously set position to be ready to destroy the next piece of media of the same size.
- 5) Open the door and remove the hard drive(s) when the Green light illuminates, indicating the destruction process is complete.
- 6) Insert media and close the door and repeat from Step 4 until the job is complete or repeat from Step 3 if a different height media is inserted in the chamber.

Sequence of Manual Mode Operation

- 1) Press the "Power Switch" to "ON".
- 2) Press and hold the "Size" button for three seconds or until the Green, Yellow and Blue lights illuminate in a chasing sequence.
- 3) Open the door and place the Hard Drive(s) on the Support Rails.
- 4) Press the "Size" button once to lower the Destruction Wedge to level four, the uppermost level. Press the "Size" button again to lower the Destruction Wedge to the next lower level and so on until the unit is sized to the desired level for the destruction of the media in the chamber.

Notes:

- a. The destruction wedge should be located just above the media before the "Destroy" button is pushed. Open the door and remove the hard drive(s) when the Green lamp illuminates, indicating the destruction process is complete.
 - b. The Yellow light will blink four times for level four, three times for level three and so on. A total of four levels are available. After the Destruction Wedge reaches level one, the lowest level, the next push of the "Size" button will return the Destruction Wedge to the Home position.
- 5) Press the "Destroy" button.

Cleaning the Debris Tray

Open the door and remove the Hard Drive(s) after the destruction wedge returns to the top position and the motor stops.

As a safety precaution, do not open the door until the destruction wedge has returned to the top position and the motor has stopped.

After the PD-4 destroys the Hard Drives, small fragments of the hard drive may be left on the Support Rails and will be left in the Debris Tray. Sweep or vacuuming the fragments from the Support Rails into Debris Tray located on the bottom of the Destruction Chamber in between the Support Rails of the PD-4. When enough debris has accumulated, remove the Debris Tray and empty it. Place the Debris Tray back in and resume the destruction process.

Note: Make sure that the Debris Tray is inserted all the way to the back of the chamber or the door will not shut completely.

Instruction for Use

When using PD-4, please pay special attention to the following. Failure to follow these procedures could cause serious failure or malfunction.

Operating Environment:

Please do not use or keep the PD-4 in environments with excessive heat, cold, humidity, or dust.

Use caution when bringing the PD-4 from a cold environment into a warm environment. If moisture has accumulated due to a sudden change of temperature, wait (1) hour before operating the PD-4.

Do not use the PD-4 on uneven or unstable surfaces. Only use the PD-4 on a secure horizontal surface.

Cleaning:

Please wipe dirt off with a soft and dry cloth. Do not use chemicals or solvents.

When cleaning the unit, make sure that the power is not connected, and wipe with a soft and dry cloth.

To achieve proper hard drive placement, sweep or vacuum Hard Drive debris from the inside of the PD-4. Empty debris from the Debris Tray and remove any debris that has remained on the Support Rails. Excess debris will alter the placement of the HDD and may cause damage to the PD-4.

Parts List

| Part Number | Description |
|-------------|------------------------------|
| 2500-063 | Bearing, ball ½" |
| 2500-064 | Bearing, ball ¾" |
| 2500-091B | Rail, door slide |
| 2600-013 | Fan, 24vdc |
| 2600-014 | Filter assy |
| 2600-015 | Finger guard, fan |
| 2825-278 | Bolt, shoulder 3/8 dia .75 |
| 2825-289 | Knob, plastic |
| 2825-294A | Tray, debris |
| 335-0010 | Fuseholder, 3AG |
| 356-0001 | SS Relay, 240VAC 40A |
| 3500-059B | Gear, 48 tooth |
| 3500-060E | Gear, 16 tooth |
| 3500-064D | Shaft, gear |
| 3500-066D | Gear, spur 60 tooth |
| 3500-068 | Motor, 110/115 |
| 4000-007 | Power Supply, 90-264VAC |
| 4300-026 | Fuse, 10A 250V slow blow |
| 4075-270E | Manual, operation PD-4 |
| 4500-023 | Relay, SS SPST 5A |
| 4700-045 | Resistor, R5 50W |
| 5100-001 | Pushbutton switch |
| 5100-034 | Switch, power rocker |
| MS1400-216B | Rail, crush chamber |
| MS2400-058B | Rail, media support |
| MS2500-059B | Plate, compression |
| MS2400-059B | Screw, acme |
| MS5400-006B | Wedge, media destroyer |
| SA1400-215B | Plate, crush chamber side |
| SA1400-258B | Door, crush chamber |
| SA1700-205D | PCB, main control populated |
| SA1700-206B | PCB, control panel populated |
| SA1700-207G | PCB, chamber sense |
| SA2400-060B | Bar, media stop |
| SA2400-062C | Rail, bumper |
| SA2500-090B | Bracket, index cntr |
| SA3500-070C | Index card, motor |
| SA6000-085A | Harness, wiring PD-4 |

Specifications

| | |
|---------------------------------------|--|
| Power Supply | Standard: 120V \pm 5% 60 Hz Optional: (100V, 110-115V, 200V, 220-240V) (50 or 60 Hz) Please check the power configuration label located on the back of the PD-4. |
| Power Consumption | 10A @ 120VAC |
| Cycle Time PD-4 Standard Model | Full Cycle: 20 seconds Destroy Cycle: 10 seconds |
| PD-4 Standard Model Capacity | 2.5" and 3.5" hard Drives. Disk drives up to 1.66" high. Two 1" high standard hard disk drives. Up to six laptop hard disk drives. |
| Operating Environment | 41°F - 104°F (5°C - 40°C), Humidity: 10 to 80% (Non Condensing) |
| Physical Weight | PD-4: Net 82 lbs. (37.25Kg) Case: 23 lbs. (10.45 Kg) |
| Shipping Weight | 125 lbs (56.8 Kg) |
| Physical Dimensions | PD-4: 15.75 in. (L) x 7.1in. (W) x 14.1 in. (H) Case: 21 in. (L) x 25 in. (W) x12 in. (H) |
| Shipping Dimensions | 34 in. (L) x 26 in. (W) x 18 in. (H) |
| Warranty | 1 Year Parts and Labor Limited Warranty |
| Duty Cycle | Continuous* |

* Ambient temperatures above 75 degrees F will have an effect on duty cycle.



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Garner Products, Inc. ("Garner") warrants this Garner-branded product against defects in materials and workmanship under normal use for a period of ONE (1) YEAR from the date of purchase by the original end-user as evidenced by original end-user's packing slip or invoice ("Warranty Period"). If a defect arises and a valid claim is received within the Warranty Period, at its option, Garner will either: (1) repair the product, (2) exchange the product, or (3) request that end-user replace defective parts with new or refurbished user-installable parts that Garner provides in fulfillment of its warranty obligations. A replacement product or part, including a user-installable part that has been installed in accordance with instructions provided by Garner, assumes the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage. Garner's obligation is limited to the cost of material and labor to repair or replace and does not include transportation expenses.

LIMITATIONS

This warranty does not apply: (a) to cosmetic damage, including but not limited to scratches, dents and broken plastic; (b) to normal wear; (c) to damage caused by accident, abuse, neglect, misuse, flood, fire, earthquake or other external causes; (d) to damage caused by operating the product outside the permitted or intended uses described by Garner; (e) to damage caused by service performed by anyone who is not a representative of Garner or a Garner authorized service provider; (f) to a product or part that has been modified to alter functionality or capability without the written permission of Garner; or (g) if any Garner serial number has been removed or defaced.

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WARRANTY RETURN POLICY

If a problem occurs with this product, contact Garner directly by **Email at Info@Garner-Products.com** or by **phone at (916) 784-0200** to obtain technical support and/or to get a Return Authorization Number (RA#). All returns must be specifically authorized by Garner prior to shipment and returned to Garner **FREIGHT PREPAID** with the RA# marked prominently near the shipping label. Securely package the product. It is end-user's responsibility to ensure the product is packaged properly to prevent damage during transit to Garner. Garner will provide product packaging to end-user at end-user's request and expense. Enclose proper documentation, including RA#, the return address, a name and phone number of the contact person, the serial number of the merchandise being returned and a description of the reason for the return. Omission of any of this information may delay service. Garner recommends end-user insure the shipment; otherwise end-user accepts the risk if product is lost or damaged in shipment.

Garner will pay to ship the repaired or replacement products to end-user's shipping dock if end-user's delivery address is in the United States (excluding Puerto Rico and U.S. possessions and territories); otherwise Garner will ship the product to end-user freight collect. Garner will select method for return shipment. Alternate shipment methods may be made at end-user's expense.