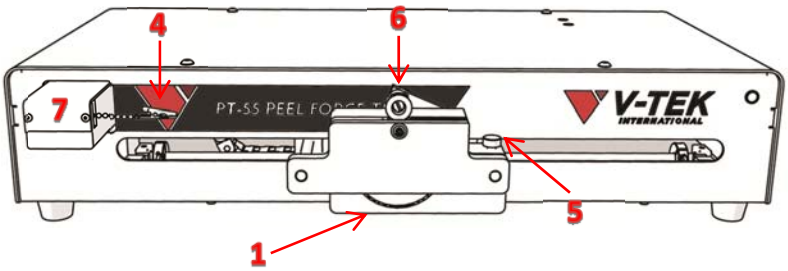
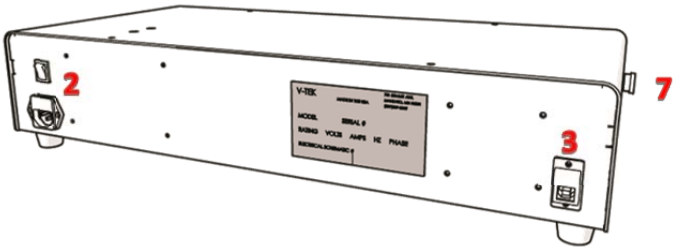
PT-55 Quick Start Guide

This quick start guide provides basic setup and operating instructions for the PT-55 Peel Force Tester. The intended use of the PT-55 is to measure the peel force of sealed SMD tape. Use of this equipment in any other way is not recommended.

Work Area: The PT-55 is designed to be operated in a temperature-controlled, light industrial setting. The machine should be installed on a flat, dry, stable surface in a well-lit area. Choose a table that is at least 24" wide by 15" deep to provide sufficient space for the assembled machine. *See page 2 for Quick Start Instructions.*





1. Carriage Clamp
2. AC Power Receptacle & Power Switch
3. USB Port
4. Alligator Clip
5. Track Adjustment Knob
6. Idler Wheel
7. Load Cell Assembly & Load Cell Position Thumb Screw

Physical Specifications

Height: 5 inches (13 cm) **Depth:** 10 inches (25 cm) **Width:** 22 inches (56 cm) **Weight:** 22 pounds (10 kg)

Operating Environment: Operating Temperature 0°C - 50°C (32°F - 122°F), Maximum Humidity 90% non-condensing

Power Required: 120/230 VAC, 50-60 Hz

- *Only qualified personnel with the proper technical training, experience working on this type of equipment, and awareness of the possible hazards should perform maintenance on the PT-55.*
- *The user is protected from moving parts and exposure to objects being ejected under pressure by metal enclosures. The PT-55 should never be operated with these enclosures removed.*
- *Disconnect the machine from the power supply placing the unplugged cable in clear view before performing maintenance.*
- ***Never pull on the Load Cell Chain by hand!** Exceeding the cell's rated force can shift its output or even destroy it.*

Detailed User's Guides which include maintenance instructions, spare parts lists and troubleshooting information are available on the V-TEK, Inc. website: **www.vtekusa.com**.

Contact Information

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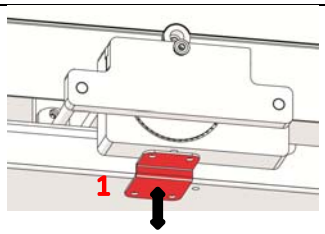
Getting Started

1. Remove Carriage Clamp

The PT-55 is shipped with a **Carriage Clamp (1)** attached to the carriage assembly to prevent carriage movement during shipment. Use the supplied 1/8" Allen Wrench to remove the (4) BHCS which hold the clamp in place. Remove the clamp and discard.

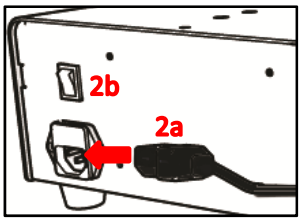
If the optional laptop security bracket was purchased, visit the V-TEK, Inc. website at www.vtekusa.com for installation instructions.



2. Connect Power Supply

Connect the AC power cord into the **AC Power Receptacle (2a)** which is located on the back of the PT-55. Connect the power cord to a 120/230 VAC power source.

Flip the **Power Switch (2a)** which is located above the Power Receptacle to the ON position.

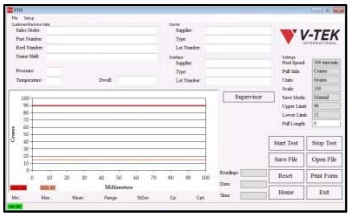


3. Configure HMI Settings

Connect the PT-55 laptop to the **USB Port (3)** on the back of the PT-55, and then power it up.

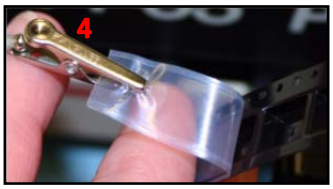
Note: If V-TEK optional computer was not purchased, load software onto user-supplied computer using provided USB Drive. See online manual for details.

In the HMI *Main Screen*, press **Supervisor** and enter the password at the prompt. The default password is "password". Enter desired settings for *Auto Tension*, *Save Mode* and test parameters.



4. Prepare Tape Sample

Run out a 6 to 12 inch strip of empty, sealed carrier tape for testing. Orient the tape sample so it is right-side up with the sprocket holes facing the Peel Force Tester. At the right end of the tape, carefully peel back about 1 inch of cover tape. Attach the **Alligator Clip (4)** from the load cell chain to the loose cover tape. Make sure the clip is straight and centered on the tape.

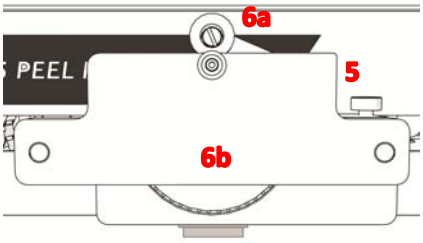


5. Feed Tape

Adjust the carriage track width, loosening the **Track Adjustment Knob (5)** as needed. The goal is for the track to touch the sides of the tape but still allow it to move freely.

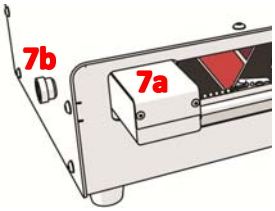
6.

Advance the tape until it reaches the red **Idler Wheel (6a).** Feed the carrier tape under the tape guide, and then lift the idler wheel to engage the sprocket holes of the carrier tape with the sprocket wheel teeth. Lower the idler wheel. Slide the **Tape Adjuster Guide (6b)** forward until the edge of the carrier tape is in the groove of the tape guide. Tighten the **Track Adjustment Knob (5)**.



7. Position Load Cell

Pull the **Load Cell Assembly (7a)** out to a position where the chain is centered on the carrier tape. Adjust the **Load Cell Position Thumb Screw (7b)** on the left side of the machine as needed.



8. Run Test

Press the **Start Test** button in the HMI's *Main Screen*. The PT-55 will begin moving the carriage and graphing the results. The test will stop automatically when it reaches the preset pull length. You may also press the **Stop Test** button when enough data has been gathered to complete the test. The *Main Screen* will then display a **PASS** or **FAIL** message.