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› [Virtual Industries](#) /

› Virtual Industries V8901-LMS-ESD Pen-Vac Kit Instruction Manual

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ESD Pen-Vac Kit with 6 Probes and Cups

1. INTRODUCTION

The Virtual Industries V8901-LMS-ESD Pen-Vac Kit is designed for the safe and efficient handling of small, delicate, and static-sensitive components. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your Pen-Vac kit to ensure optimal performance and longevity.

2. PRODUCT OVERVIEW

The V8901-LMS-ESD Pen-Vac features a durable silver aluminum body and operates without the need for batteries or external power. Vacuum is generated by a simple press-and-release mechanism. The kit includes a variety of probes and cups to accommodate different component sizes, all stored conveniently in the rear cap.



Figure 1: Virtual Industries V8901-LMS-ESD Pen-Vac Kit. This image shows the silver aluminum Pen-Vac tool along with the included assortment of bent and straight probes, each fitted with different sized suction cups.

Key Features:

- **ESD-Safe Design:** Constructed with materials suitable for electrostatic discharge sensitive environments.
- **Manual Vacuum Generation:** Vacuum is created by pressing and releasing the integrated push button.
- **Compact and Portable:** Unit measures 5-3/4 inches long and 1/2 inch in diameter.
- **Integrated Storage:** Rear cap provides convenient storage for probes and cups.
- **Versatile Probes and Cups:** Includes two of each size cup (1/8", 1/4", 3/8" diameter) on one bent and one straight probe.

3. SETUP

The V8901-LMS-ESD Pen-Vac Kit requires minimal setup. No batteries or external power sources are needed for operation.

1. **Unpack Contents:** Carefully remove all components from the packaging. Verify that the Pen-Vac tool, various probes, and suction cups are present.
2. **Select Probe and Cup:** Choose the appropriate size suction cup and probe (bent or straight) for the component you intend to handle. The rear cap of the Pen-Vac serves as a storage compartment for these accessories.
3. **Attach Probe:** Firmly insert the selected probe into the front opening of the Pen-Vac tool. Ensure it is securely seated to prevent air leaks and maintain vacuum integrity.

4. OPERATING INSTRUCTIONS

Follow these steps for effective and safe handling of components using your Pen-Vac kit:

1. **Prepare the Pen-Vac:** Ensure the desired probe and suction cup are securely attached to the Pen-Vac tool.
2. **Generate Vacuum:** Place the suction cup directly onto the surface of the component you wish to pick up. Press the push button on the Pen-Vac tool firmly and then release it. This action creates a vacuum, causing the component to adhere to the suction cup.
3. **Lift Component:** Once the component is securely held by the vacuum, carefully lift and transport it to the desired location.
4. **Release Component:** To release the component, simply press the push button again. This breaks the vacuum, allowing the component to detach from the suction cup.

Tips for Effective Use:

- Ensure the suction cup is clean and free of debris for optimal grip.
- Select a suction cup size that is appropriate for the component's surface area to maximize vacuum effectiveness.
- Avoid pressing the button while the cup is not in contact with a surface, as this can reduce vacuum efficiency.

5. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your Pen-Vac kit.

- **Cleaning:** Periodically clean the suction cups and probes with a mild, ESD-safe cleaning solution and a soft cloth. Ensure they are completely dry before re-use.
- **Inspection:** Inspect suction cups for any signs of wear, tears, or hardening. Worn cups may lose their ability to create a strong vacuum and should be replaced.
- **Storage:** Store the Pen-Vac tool and its accessories in a clean, dry, and ESD-safe environment when not in use. Utilize the rear storage cap for organizing probes and cups.

6. TROUBLESHOOTING

If you encounter issues with your Pen-Vac kit, refer to the following common problems and solutions:

- **Problem:** Pen-Vac does not pick up components or has weak suction.
Solution:
 - Ensure the probe is fully inserted into the Pen-Vac body.
 - Check the suction cup for damage, cracks, or debris. Replace if necessary.
 - Verify that the suction cup size is appropriate for the component's surface area.
 - Ensure a complete seal between the suction cup and the component surface.
- **Problem:** Component drops prematurely.
Solution:
 - Confirm the push button was fully released after generating vacuum.
 - Inspect the suction cup for wear or damage.
 - Ensure the component surface is clean and dry.

7. SPECIFICATIONS

Brand	Virtual Industries
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Model Number	V8901-LMS-ESD
Color	Silver
Unit Length	5-3/4 inches (14.6 cm)
Unit Diameter	1/2 inch (1.27 cm)
Item Weight	1.28 ounces (36.29 grams)
Controller Type	Push Button
Batteries Required	No
Included Cups	Two of each size: 1/8" (3.18mm), 1/4" (6.35mm), 3/8" (9.53mm) diameter
Included Probes	Bent and Straight for each cup size
UPC	659701502681

8. WARRANTY AND SUPPORT

Virtual Industries products are manufactured to high-quality standards. This product is covered by the manufacturer's standard warranty against defects in materials and workmanship. Please refer to the official Virtual Industries website or contact their customer service for specific warranty terms and conditions.

Customer Support:

For technical assistance, replacement parts, or warranty claims, please contact Virtual Industries customer support through their official channels. Contact information can typically be found on the manufacturer's website or product packaging.