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KLEIN TOOLS VDV500-820

Klein Tools VDV500-820 Wire Tracer Tone Generator and Probe Kit Instruction Manual

Model: VDV500-820

1. INTRODUCTION

The Klein Tools VDV500-820 Wire Tracer Tone Generator and Probe Kit is designed for professionals to efficiently trace and identify wires in various common wiring systems. This kit includes a Toner-Pro (tone generator) and a Probe-Pro (tracing probe), enabling accurate tracing of open-ended, non-energized wiring. It is suitable for use with Ethernet, telephone, speaker, coax, video, and data cables, supporting RJ45, RJ11, and RJ12 connections.

The Toner-Pro features five distinct tone cadences and can transmit signals over 1,000 feet. It also performs continuity and polarity testing, indicated by clear LED displays. The Probe-Pro is equipped with a responsive, durable, non-metallic, replaceable conductive tip and includes a 3.5 mm headphone jack for use in noisy environments.



Image 1.1: The Klein Tools VDV500-820 Wire Tracer Tone Generator and Probe Kit, showing both the Toner-Pro and Probe-Pro units with included accessories.

2. SAFETY INFORMATION

WARNING: Read all safety information before using the products. Failure to follow these instructions may result in injury or damage to the equipment.

- Carefully read all instructions provided in this manual.
- Do NOT use on energized circuits. This device is intended for use on non-energized wiring only.
- Do not use instruments if they are wet, as this could pose a shock hazard.
- Do not use instruments if they are damaged in any way. Inspect both units before each use.
- Turn off instruments and disconnect all test leads before attempting to replace batteries.
- Do not open the case, other than the battery compartment. There are no user-serviceable parts inside.
- The battery door must be in place and secure before you operate the device.

3. PRODUCT COMPONENTS AND FEATURES

3.1 Toner-Pro (Tone Generator)

The Toner-Pro is the signal-generating unit. It is used to inject a tone onto a cable, which can then be detected by the Probe-Pro. Key features include:

- **Five Distinct Tone Cadences:** Allows for differentiation when tracing multiple cables.
- **Continuity and Polarity Testing:** LEDs clearly indicate normal (NRM), reverse (REV) polarity, and continuity (Pass/Short).
- **Multiple Connection Options:** Equipped with an RJ11 plug for telephone jacks, an RJ45 plug for data jacks, and rugged Angled Bed of Nails (ABN) clips for secure attachment to bare wires.
- **Power Button:** For turning the unit on and off.
- **Test Tone Button:** Activates the tone generation.
- **Tone Mode Selection Buttons:** For cycling through the available tone frequencies (800Hz, 1000Hz, 1500Hz).



The advertisement features the Klein Tools logo at the top left, followed by the text "Since 1857". Below this, a large headline reads "Professional grade analog tone generator for open-ended, non-active wiring". To the right, another headline says "Five distinct tone cadences". A close-up photograph of the Toner-Pro unit is shown, connected to a pair of wires with red and black alligator clips. The unit is yellow and black with various buttons and a display screen.

Image 3.1: Close-up of the Toner-Pro unit, highlighting its test mode LEDs for polarity and continuity, and tone mode selection buttons.

3.2 Probe-Pro (Tracing Probe)

The Probe-Pro is the receiving unit used to detect the tone signal emitted by the Toner-Pro. Key features

include:

- **Responsive Conductive Tip:** Durable, non-metallic, and replaceable (VDV999-068, sold separately) for precise tracing.
- **Adjustable Volume Speaker:** Amplifies the detected tone for clear audibility.
- **3.5 mm Headphone Jack:** Allows for headphone use (sold separately) in noisy environments, ensuring clear audio feedback.
- **LED Indicators:** For signal strength and flashlight.
- **Power Button:** For turning the unit on and off.
- **Volume Control Buttons:** To adjust the speaker volume.
- **Flashlight Button:** Activates the built-in flashlight for working in dark areas.



Image 3.2: The Probe-Pro unit, showing its replaceable tip and 3.5 mm headphone jack.

4. SETUP

4.1 Battery Installation

Both the Toner-Pro and Probe-Pro require batteries for operation. Ensure the units are powered off before

installing or replacing batteries.

1. Locate the battery compartment on the back of each unit.
2. Use a screwdriver to open the battery compartment cover.
3. Insert the required AAA batteries (8 total, 4 per unit) according to the polarity markings inside the compartment.
4. Securely close the battery compartment cover.

Note: It is recommended to use fresh, high-quality batteries. Some users have reported issues with included batteries leaking; inspect batteries regularly.

4.2 Connecting the Toner-Pro to Cables

Before connecting, ensure the circuit is NOT energized. The VDV500-820 is designed for use on non-energized wiring.

- **For RJ11/RJ45 Jacks:** Plug the appropriate connector directly into the telephone or data jack.
- **For Bare Wires:** Use the Angled Bed of Nails (ABN) clips. Connect one clip to the wire you wish to trace and the other clip to a known ground or another wire in the pair. Ensure a secure connection.

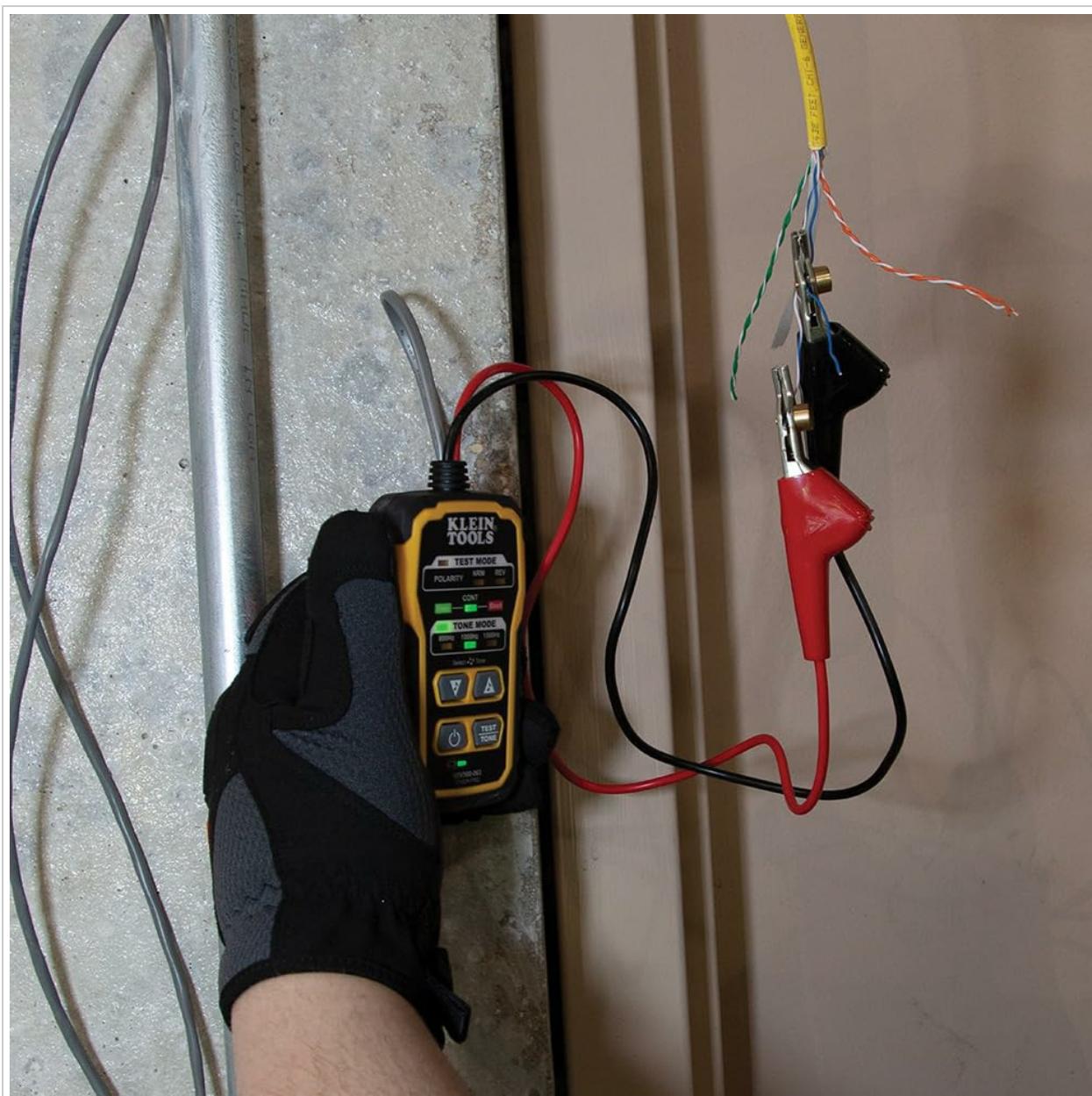


Image 4.1: The Toner-Pro connected to bare wires using the Angled Bed of Nails (ABN) clips.



Image 4.2: The Toner-Pro connected to an RJ45 data jack.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- Press and hold the power button on both the Toner-Pro and Probe-Pro to turn them on or off.
- The units will typically emit a short beep or illuminate an LED to indicate they are powered on.

5.2 Tone Generation and Selection (Toner-Pro)

1. Ensure the Toner-Pro is connected to the cable you wish to trace.
2. Press the 'TEST TONE' button to start emitting a tone.
3. Use the 'Select Tone' buttons (up/down arrows) to cycle through the five distinct tone cadences (800Hz, 1000Hz, 1500Hz, etc.). Select a tone that is easily distinguishable.

5.3 Tracing Wires (Probe-Pro)

1. With the Toner-Pro emitting a tone, power on the Probe-Pro.
2. Adjust the volume on the Probe-Pro to a comfortable level using the volume control buttons.

3. Move the tip of the Probe-Pro along the suspected path of the cable. The tone will be loudest when the probe is directly over the toned wire.
4. The signal strength indicator on the Probe-Pro will also help in identifying the wire.
5. For precise identification, especially in bundles, use the non-metallic tip to isolate individual wires.
6. In noisy environments, plug headphones (3.5 mm jack) into the Probe-Pro for clearer audio detection.

5.4 Continuity and Polarity Testing (Toner-Pro)

The Toner-Pro can also test for continuity and polarity of cables.

- Connect the Toner-Pro to the cable using the RJ11, RJ45, or alligator clips.
- The LEDs under 'TEST MODE' will illuminate to indicate the status:
 - **POLARITY:** NRM (Normal) or REV (Reverse) for telephone lines.
 - **CONT (Continuity):** Pass (continuous circuit) or Short (short circuit).
- Interpret the LED indicators to diagnose cable issues.

6. MAINTENANCE

6.1 Battery Replacement

Refer to Section 4.1 for detailed instructions on battery replacement. Replace batteries promptly when the low battery indicator appears or if performance degrades.

6.2 Probe Tip Replacement

The Probe-Pro features a replaceable conductive tip (Klein Tools part number VDV999-068, sold separately). If the tip becomes worn or damaged, it can be replaced to maintain optimal performance.

1. Ensure the Probe-Pro is powered off.
2. Carefully unscrew or detach the worn tip from the probe.
3. Attach the new VDV999-068 replacement tip, ensuring it is securely fastened.

6.3 Cleaning

Clean the units with a dry, lint-free cloth. Do not use abrasive cleaners or solvents. Ensure no moisture enters the device openings.

7. TROUBLESHOOTING

- **No Tone Detected:**
 - Ensure both Toner-Pro and Probe-Pro are powered on.
 - Verify batteries are fresh and correctly installed in both units. Replace if necessary.
 - Check that the Toner-Pro is securely connected to the cable.
 - Confirm the 'TEST TONE' button on the Toner-Pro has been pressed.
 - Increase the volume on the Probe-Pro.
- **Weak or Intermittent Signal:**
 - Ensure the cable is not energized. This device is for non-energized circuits only.
 - Check for strong electromagnetic interference from nearby electrical equipment or radio frequencies.

- Move away from such sources if possible.
- Verify the connection of the Toner-Pro to the cable is solid.
- Consider replacing the Probe-Pro tip if it appears worn.
- Ensure the cable length is within the device's effective range (over 1,000 feet).

- Incorrect Continuity/Polarity Readings:**
 - Ensure the Toner-Pro is properly connected to the cable.
 - Verify the cable itself is not damaged or miswired.

8. SPECIFICATIONS

Model Number	VDV500-820
Brand	KLEIN TOOLS
Style	Analog Tracer
Power Source	Battery Powered
Batteries Required	8 AAA batteries (4 per unit, included)
Product Dimensions	3 x 7 x 3 inches
Item Weight	13.1 ounces
Manufacturer	Klein Tools
First Available Date	July 31, 2019

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Klein Tools products are typically covered by a limited warranty against defects in material and workmanship. For specific warranty terms and conditions applicable to your VDV500-820 kit, please refer to the official Klein Tools website or contact their customer service directly. Keep your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Klein Tools customer support:

- Website:** Visit the official [Klein Tools website](#) for product information, FAQs, and contact details.
- Contact:** Refer to the 'Contact Us' section on their website for phone numbers or email support.

10. OFFICIAL PRODUCT VIDEOS

No official product videos from the seller were found for embedding in this manual.

	<p>Klein Tools VDV500-820 Pro Tone and Probe Kit Instruction Manual</p> <p>Comprehensive instruction manual for the Klein Tools VDV500-820 Pro Tone and Probe Kit, detailing features, specifications, operating instructions, safety warnings, and maintenance for the Toner-Pro (VDV500-063) and Probe-Pro (VDV500-123) wire tracing tools.</p>
	<p>Klein Tools VDV500-705 Tone & Probe Test & Trace Kit User Manual</p> <p>User manual and operating instructions for the Klein Tools VDV500-705 Tone & Probe Test & Trace Kit, detailing features, specifications, and usage for wire identification and tracing.</p>
	<p>Klein Tools VDV Scout™ Pro 3 Instruction Manual</p> <p>Comprehensive guide to the Klein Tools VDV Scout™ Pro 3, a portable voice, data, and video cable tester. Learn about cable testing, identification, length measurement, tone generation, and troubleshooting features for RJ11, RJ12, RJ45, and F-connector cables.</p>
	<p>Klein Tools LAN Scout Jr. 2 Cable Tester: User Manual and Specifications</p> <p>Discover the Klein Tools LAN Scout Jr. 2, a portable data cable tester for RJ45 networks. This manual covers features, testing, troubleshooting, specifications, and usage for efficient cable management.</p>
	<p>Klein Tools VDV Scout® Pro Max: Comprehensive Cable Tester</p> <p>Discover the Klein Tools VDV Scout® Pro Max, a portable cable tester for voice, data, and video. Features TDR length measurement, PoE testing, network speed testing, and analog/digital tone generation for efficient troubleshooting.</p>



[Klein Tools Scout Pro 3: Professional Cable Tester and Wire Mapper](#)

Discover the Klein Tools Scout Pro 3, a versatile cable tester for voice, data, and video. Features include wire mapping, length measurement, tone generation, and hub blink testing for efficient network troubleshooting.