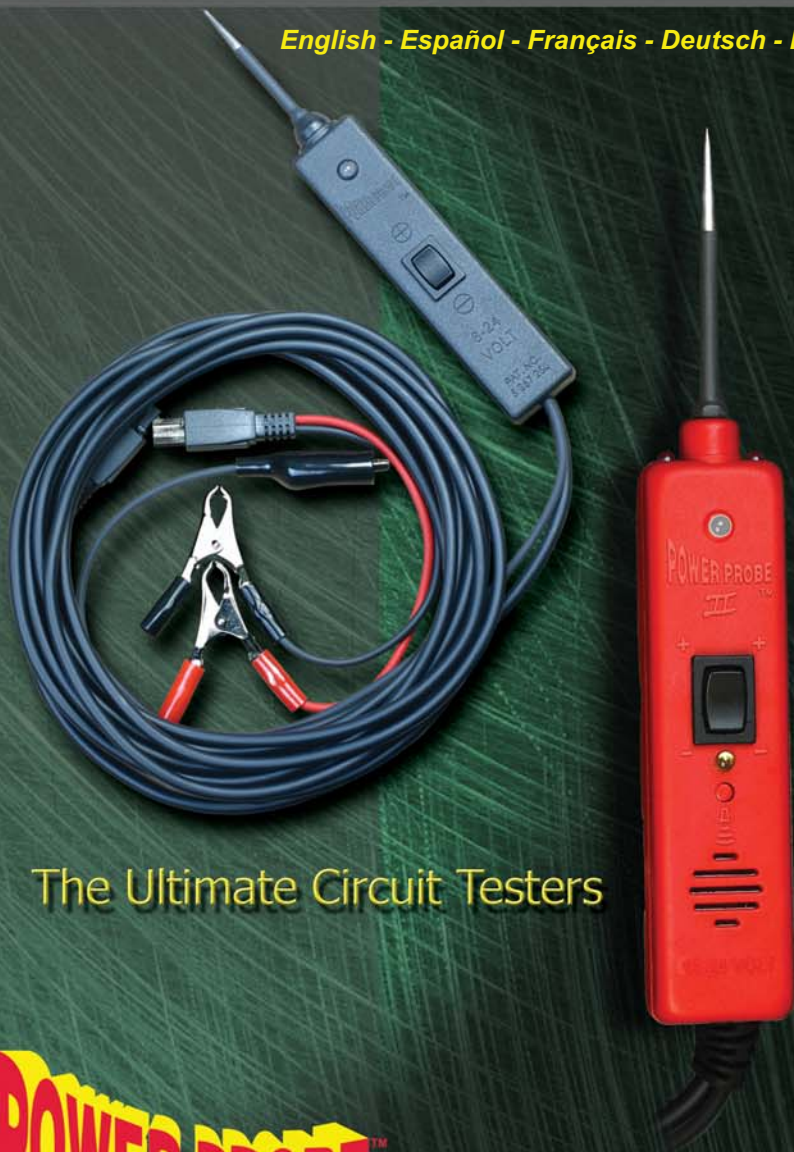


Instruction Manual for the Power Probe I and II

English - Español - Français - Deutsch - Italiano



The Ultimate Circuit Testers

POWER PROBE™

www.powerprobe.com

800-655-3585

INTRODUCTION

Thank you for purchasing Power Probe products. The Power Probe is the best professional electrical tester for reducing diagnostic time in 6 to 24 volt automotive electrical systems. After a simple hook-up of the Power Probe to the vehicle's battery, the automotive technician can determine at a glance at the red/green LED indicator, if a circuit is positive, negative or open without reconnecting hook-up clips from one battery pole to the other. The Power Probe switch allows the automotive technician to conduct a positive or negative battery current to the tip for testing the function of electrical components without the use of jumper wires. And yes, it is short-circuit protected. It tests for bad ground contacts instantly without performing voltage drop tests. It allows you to follow and locate short circuits without wasting precious fuses. The Power Probe can also test for continuity with the assistance of its auxiliary ground lead. With a flip of the power switch, you will know at a glance that your Power Probe is functioning without running to the battery as you would otherwise have to do with simple test lights. The Power Probe's long cable allows you to test along the entire length of the vehicle without constantly searching for ground hook-ups. If you are not using the Power Probe now in your electrical testing, you are spending too much diagnostic time.

Before using the Power Probe please read the instruction book carefully.

Warning!

When the Power Probe's switch is depressed battery current is conducted directly to the tip which may cause sparks when contacting ground or certain circuits. Therefore the Power Probe should NOT be used around flammables such as gasoline or its vapors. The spark of an energized Power Probe could ignite these vapors. Use the same caution as you would when using an arc welder.

The Power Probe I & II and the ECT 2000 are NOT to be used with 110/220-volt house current, it is only for use with 6-24-volt systems.

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IMPORTANT TIP: When powering-up components, you can increase the life of your Power Probe switch if you first press the switch, then contact the tip to the component. The arcing will take place at the tip instead of the contacts of the switch.

HOOK-UP

Unroll the Power Probe cable.

Clamp the RED battery hook-up clip to the POSITIVE terminal of the vehicle's battery.

Clamp the BLACK battery hook-up clip to the NEGATIVE terminal of the vehicle's battery.

QUICK SELF-TEST

Rock the power switch forward (+), the LED indicator should light RED.

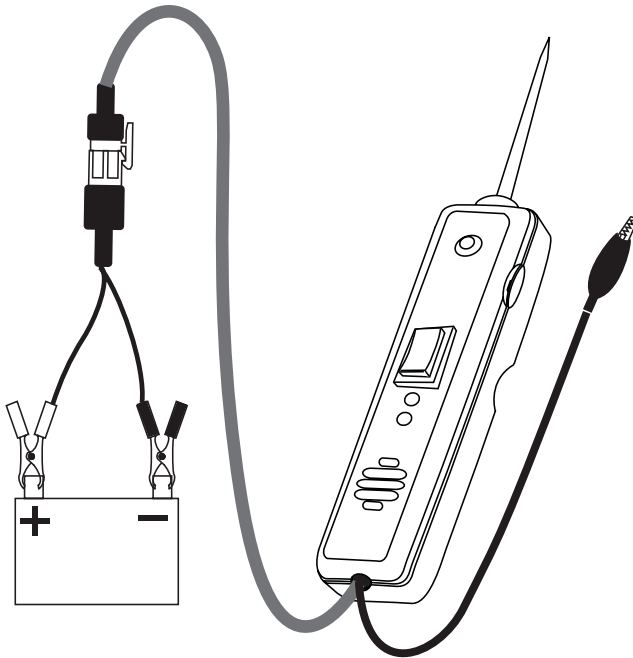
(The PP2 will sound a high pitched tone in addition to the red light)

Rock the power switch rearward (-), the LED indicator should light GREEN.

(The PP2 will sound a low pitched tone in addition to the green light)

The Power Probe is now ready to use.

If the indicator did not light, depress the reset button of the circuit breaker on the right side of the housing and try the self test again.



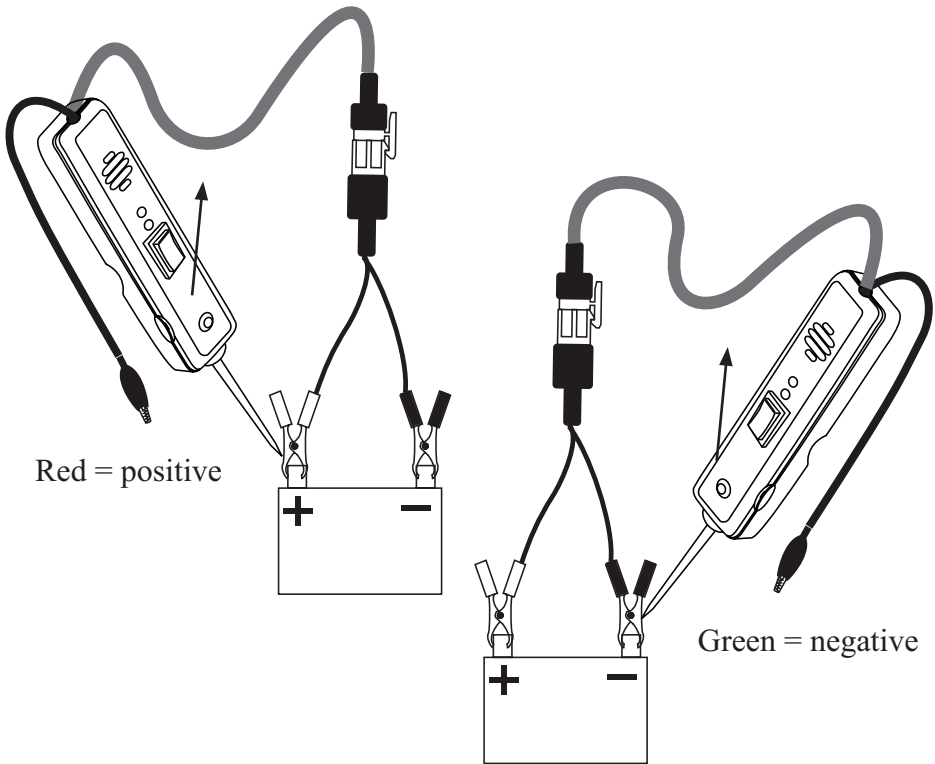
POLARITY TESTING

Contacting the Power Probe tip to a POSITIVE (+) circuit will light the LED indicator RED.
(The Power Probe 2 audio feature will sound a **high pitched** tone when contacting **positive**)

Contacting the Power Probe tip to a NEGATIVE (-) circuit will light the LED indicator GREEN.
(The Power Probe 2 audio feature will sound a **low pitched** tone when contacting **negative**)

Contacting the Power Probe tip to an OPEN circuit will be indicated by the LED indicator not lighting.

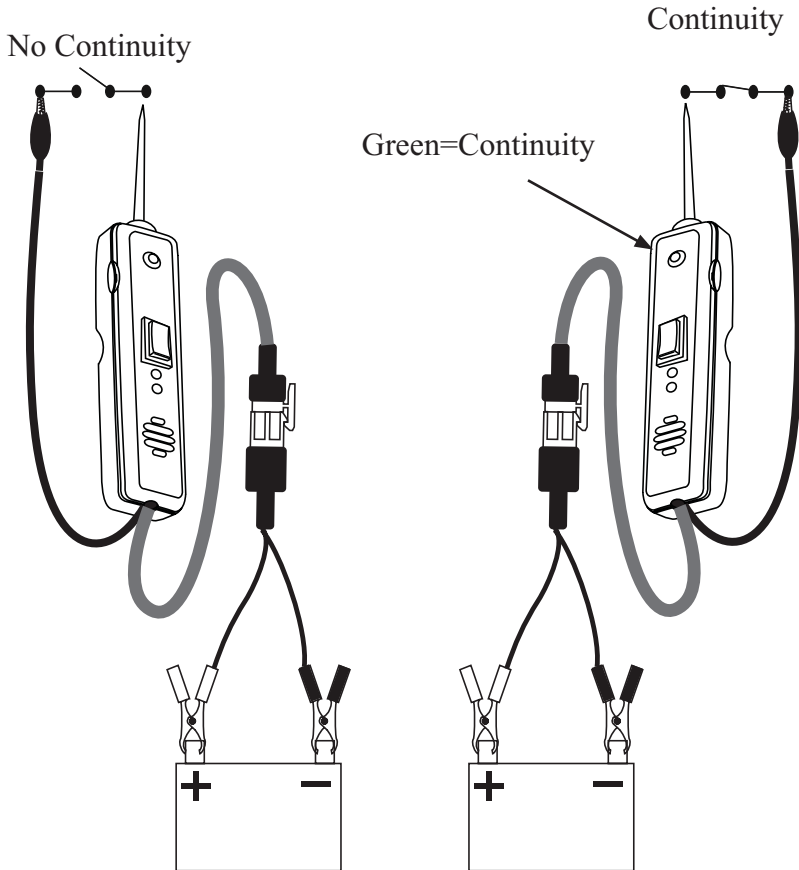
English



CONTINUITY TESTING

By using the Power Probe tip together with the auxiliary ground test lead, continuity can be tested on wires and components that are disconnected from the vehicle's electrical system.

When continuity is present, the LED indicator will light GREEN.



ACTIVATING REMOVED COMPONENTS

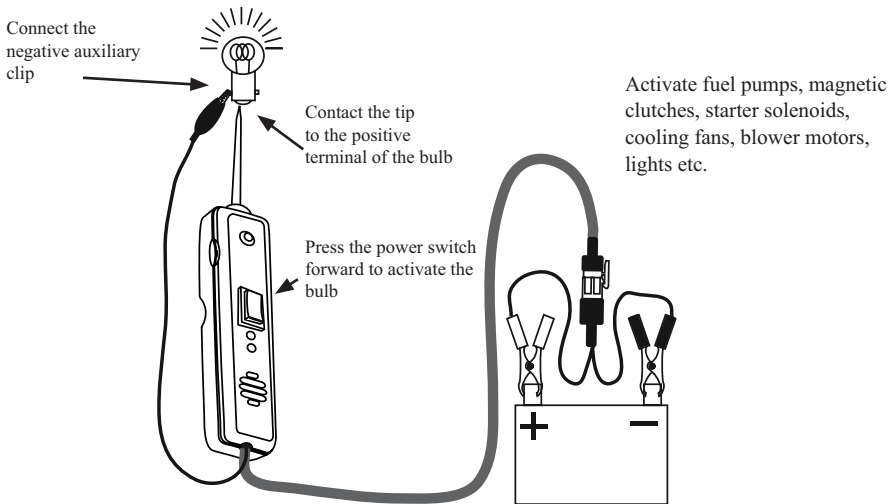
By using the Power Probe tip together with the auxiliary ground lead, components can be activated, thereby testing their function.

Connect the negative auxiliary clip to the negative terminal of the component being tested. Contact the probe to the positive terminal of the component, the LED indicator should light GREEN indicating continuity through the component.

While keeping an eye on the green LED indicator, quickly depress and release the power switch forward (+). If the green indicator changed instantly from GREEN to RED you may proceed with further activation. If the green indicator went off at *that instant* or if the circuit breaker tripped, the Power Probe has been overloaded. This could happen for the following reasons:

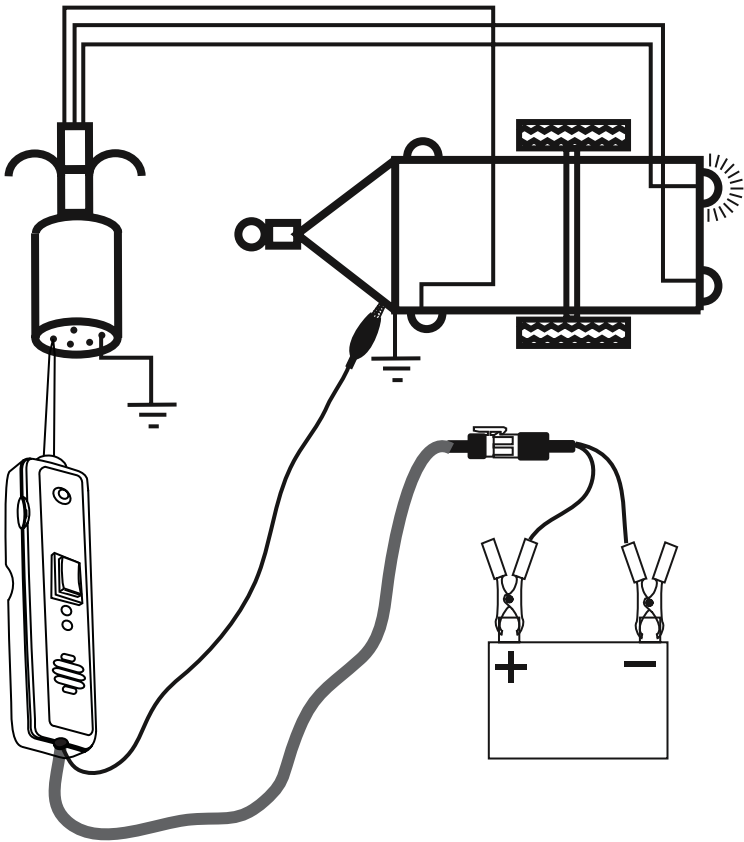
- The contact is a direct ground or negative voltage.
- The component is short-circuited.
- The component is a high amperage component (i.e., starter motor).

If the circuit breaker is tripped, reset it by depressing the reset button.



TESTING TRAILER LIGHTS AND CONNECTIONS

1. Connect the Power Probe to a good battery.
2. Clip the auxiliary ground clip to the trailer ground.
3. Probe the contacts at the jack and apply voltage to them. This lets you check the function and orientation of the trailer lights. If the circuit breaker tripped, reset it by depressing the reset button.



ACTIVATING ELECTRICAL COMPONENTS

To activate components with positive (+) voltage:

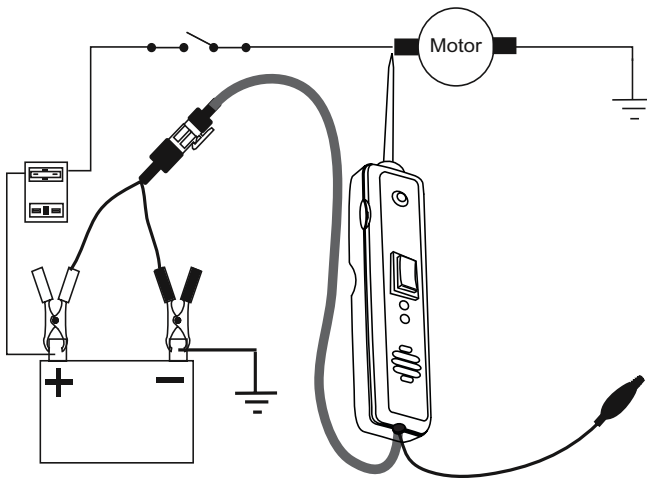
Contact the probe tip to the positive terminal of the component, the LED indicator should light GREEN.

While keeping an eye on the green indicator, quickly depress and release the power switch forward (+). If the green indicator changed instantly from GREEN to RED you may proceed with further activation. If the green indicator went off at that instant or if the circuit breaker tripped, the Power Probe has been overloaded. This could happen for the following reasons:

- The contact is a direct ground.
- The component is short-circuited.
- The component is a high current component (i.e., starter motor).

If the circuit breaker tripped, reset it by depressing the reset button.

Warning: *Haphazardly applying voltage to certain circuits can cause damage to a vehicle's electronic components. Therefore, it is strongly advised to use the correct schematic and diagnosing procedure while testing.*



TRICK: When powering-up components, you can increase the life of your Power Probe switch if you first press the switch, then contact the tip to the component. The arcing will take place at the tip instead of the contacts of the switch.

ACTIVATING ELECTRICAL COMPONENTS WITH NEGATIVE (-) VOLTAGE

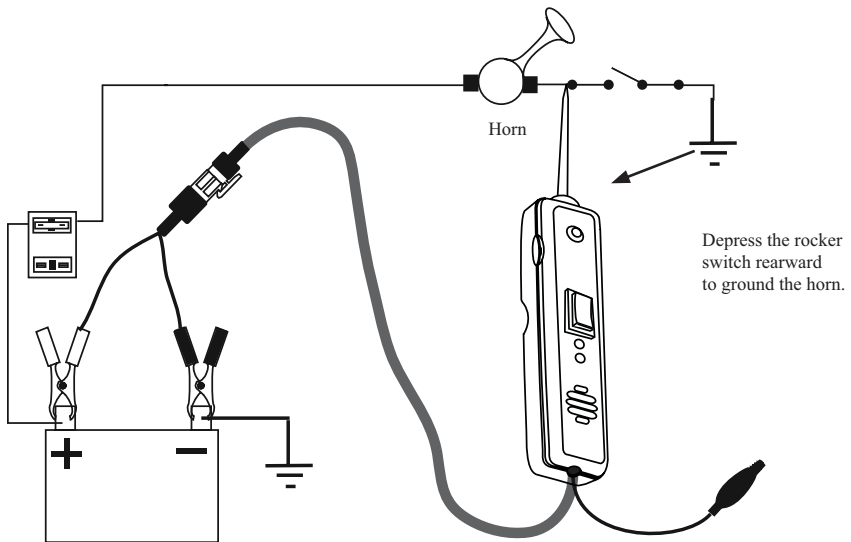
Contact the probe tip to the negative terminal of the component, the LED indicator should light RED.

While keeping an eye on the red LED indicator, quickly depress and release the power switch rearward (-). If the red indicator changed instantly from RED to GREEN you may proceed with further activation. If the green indicator went off at that instant or if the circuit breaker tripped, the Power Probe has been overloaded. This could have happened for the following reasons:

- The contact is a direct positive voltage.
- The component is short-circuited.
- The component is a high amperage component (i.e., starter motor).

If the circuit breaker tripped, reset it by depressing the reset button.

WARNING: With this function a vehicle's fuse can be blown or tripped if grounding the contact in series with it.

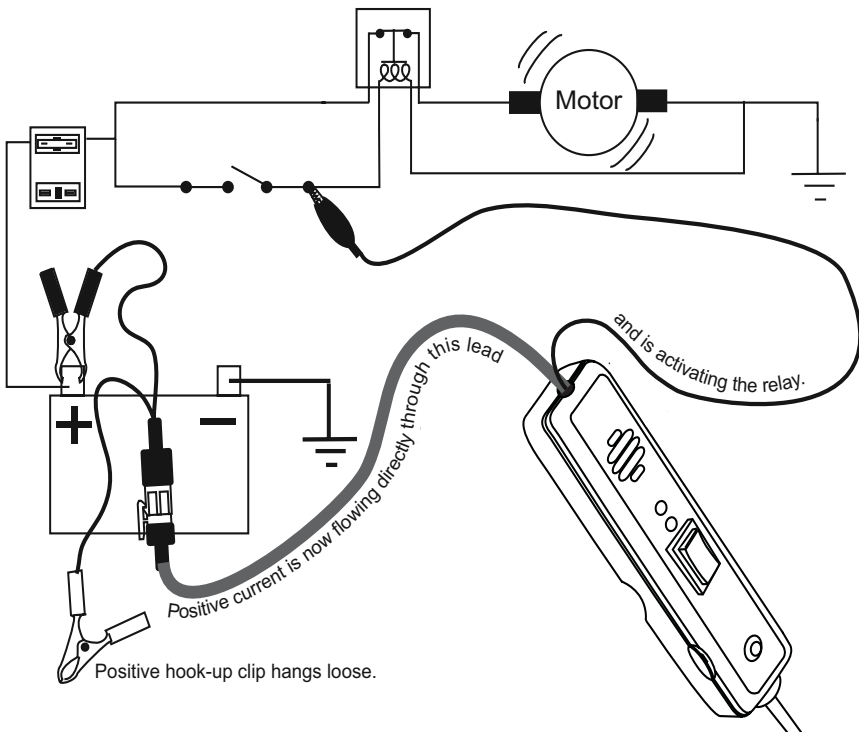


JUMPER LEAD FEATURE

The Power Probe negative battery hook-up lead and auxiliary ground lead are connected directly through the Power Probe. By leaving the positive hook-up disconnected from the vehicle's battery, the Power Probe can be used as a long jumper lead.

Be careful to avoid short circuits and overloading when using this jumper function. The leads, in this configuration, are NOT protected by the Power Probe's circuit breaker.

English



CHECKING FOR BAD GROUND CONTACTS

Probe the suspected ground wire or contact with the probe tip.

Observe the green LED indicator.

Depress the power switch forward then release.

If the LED indicator changed from GREEN to RED, this is not a true ground.

If the circuit breaker tripped, this circuit is more than likely a direct ground. Keep in mind that high current components such as starter motors will also trip the circuit breaker.

FOLLOWING AND LOCATING SHORT CIRCUITS

In most cases a short circuit will appear by a fuse or a fusible link blowing or a protection device tripping (i.e., a circuit breaker). Here is the best place to begin the search.

Remove the blown fuse from the fuse box.

Use the Power Probe tip to energize each of both contacts in the fuse box. The side which trips the Power Probe circuit breaker is the shorted circuit. Take note of this wire's identification code or color. Follow the wire as far as you can along the wiring harness, for instance if you are following a short in the brake light circuit you may know that the wire must pass through the wiring harness at the door sill. Locate the color-coded wire in the harness and expose it. Probe through the insulation of the wire with the Power Probe tip and depress the power switch forward to energize the wire. If the Power Probe circuit breaker tripped you have verified the shorted wire. Cut the wire and energize each end with the Power Probe tip. The wire which trips the Power Probe circuit breaker again will lead you to the shorted area.

Follow the wire in the shorted direction and repeat this process until the short is located.

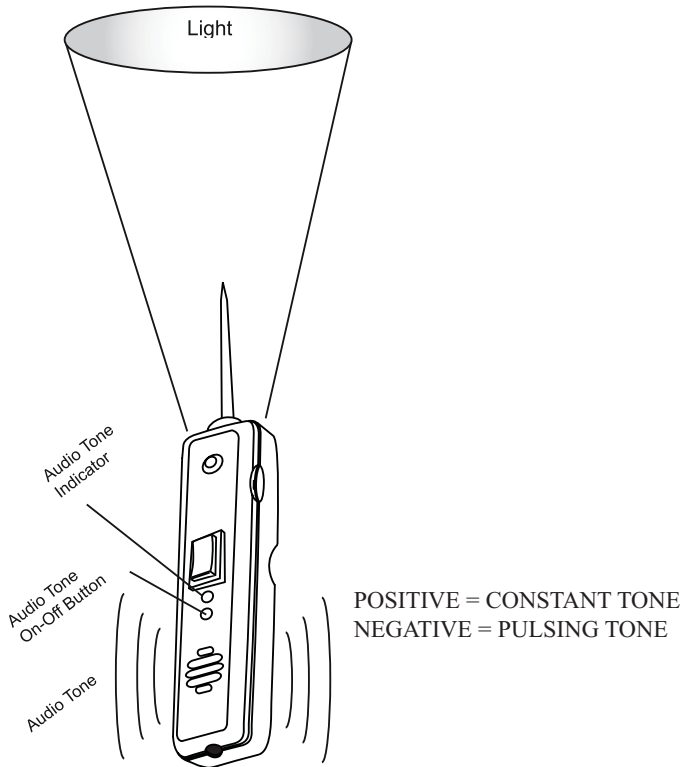
USING THE LIGHT AND TONE (POWER PROBE II)

The Power Probe II has the option of a light and tone. Once connected to a good battery, the light and the tone will be activated.

The light illuminates the area you are testing and is a great asset for seeing in dark areas.

The tone feature enhances the polarity signal. When the tip is contacted to a positive circuit, a high pitch tone will sound off. When the tip is contacted to a negative circuit, a low pitch tone will sound off. The tone can be toggled on or off by pressing the audio tone on-off button.

English



Power Probe Warranty

Power Probe products undergo a strict quality control inspection for workmanship, function, and safety before leaving the factory. From the date of purchase, we will warranty/repair Power Probe products for one (1) year against defects in parts and workmanship. All repairs due to misuse will be charged a fee not to exceed the cost of the tool. All warranty units must be accompanied by a copy of the original sale receipt. In the event of a malfunction or defective unit, please call or write your Power Probe dealer.

Power Probe Garantía

Los Productos de Power Probe son sometidos a control de calidad, funcionamiento e inspección de seguridad antes de abandonar la fábrica. A partir de la fecha de compra garantizamos reparación o reemplazo contra defectos de fabricación por el periodo de un año. Todas las Reparaciones debidas a un mal uso del equipo serán cobradas un costo no superior de la herramienta nueva de fábrica. Todo unidad en garantía y de reclamo debe ser acompañada por copia del recibo o factura de compra. En caso de falla o unidad defectuosa escriba o llame a Power Probe o contacte al Distribuidor mas cercano.

Garantie du Power Probe

Les produits Power Probe subissent une inspection stricte de contrôle de qualité, de fonctionnement, et de sécurité avant de quitter l'usine. A partir de la date d'achat, nous garantissons la réparation des produits Power Probe pendant une période d'une (1) année contre tout défaut en ce qui concerne les pièces et la main d'œuvre. Pour toutes les réparations dont la cause serait une mauvaise utilisation nous chargeons des frais qui ne peuvent pas dépasser le coût de l'outil. Tous les appareils sous garantie doivent être accompagnés d'une copie du récépissé de vente. Dans le cas d'un mauvais fonctionnement ou d'un appareil défectueux, appeler ou écrire à votre agent power Probe.

Garantie für den Power Probe

„Power Probe“-Produkte werden vor der Auslieferung nach strengsten Qualitätskriterien auf Verarbeitung, Funktion und Sicherheit geprüft. Auf unsere „Power Probe“-Produkte gewähren wir ab Datum des Kaufs eine Garantie von einem (1) Jahr auf Teile und Verarbeitung. Reparaturen, die aufgrund missbräuchlicher Verwendung erforderlich sind, werden mit einer Gebühr berechnet, die den Anschaffungspreis des Gerätes nicht übersteigt. Allen eingeschickten Geräten ist eine Kopie des Original-Kaufbelegs beizufügen. Bei Funktionsstörungen oder Defekten des Gerätes wenden Sie sich bitte an Ihren Power Probe Fachhändler.

Garanzia Power Probe

I prodotti Power Probe sono sottoposti a severe ispezioni di controllo verificarne la fabbricazione, funzionalità e sicurezza prima di lasciare lo stabilimento di produzione. Dalla data di acquisto, si garantisce la riparazione dei prodotti Power Probe per un (1) anno contro difetti dei componenti e vizi di fabbricazione. Per tutte le riparazioni dovute a uso improprio verrà addebitato un importo non superiore al costo dell'utensile. Tutte le unità in garanzia dovranno essere accompagnate da una copia del documento originale di vendita. Nel caso di un'unità malfunzionante o difettosa, contattare telefonicamente o scrivere al vostro rivenditore Power Probe.



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