

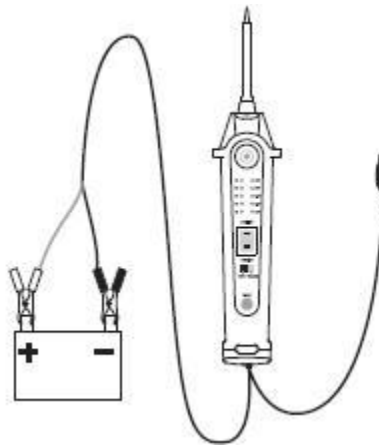
1. Testing the Unit and the Connections

Press the front part(“—”)of the rock switch, and the test indicator should light RED.

Press the rear part (“=”), the test indicator should light GREEN.

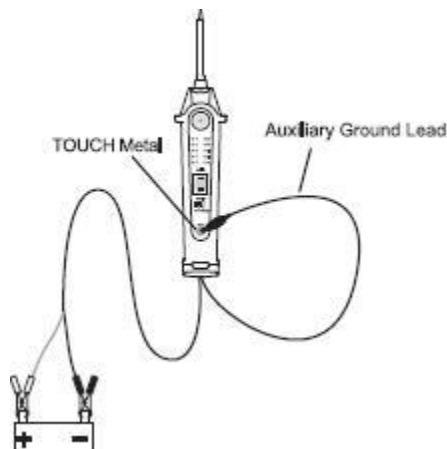
The unit is now ready for use.

If the test indicator did not light, the cause may be that the clip connections are not good or the unit is damaged.



2. Using Illumination

To turn on or off the illuminator, keep the clip of the auxiliary ground lead in contact with the TOUCH metal for about 0.5 seconds and then remove the clip from the TOUCH metal.

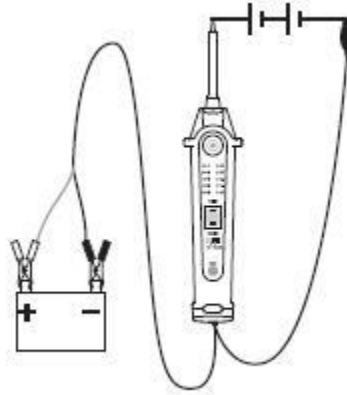


3. Measuring DC Voltage

a. Set the selection switch to the “VOLTAGE” position.

b. Connect the probe to the more positive terminal of the circuit to be measured, and the clip of the auxiliary ground leads to the more negative terminal of the circuit.

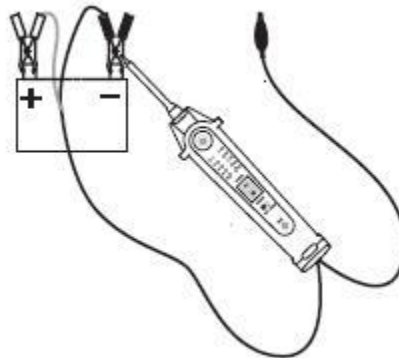
c. The voltage indicators will illuminate to indicate the voltage of the circuit.



4. Polarity Test

Note: Set the selection switch to the “TEST” position.

Contacting the probe's tip to a positive(+) circuit will light the test indicator RED. Contacting the probe's tip to a negative(—)circuit will light the test indicator GREEN. Contacting the probe's tip to an open circuit does not turn on the test indicator.



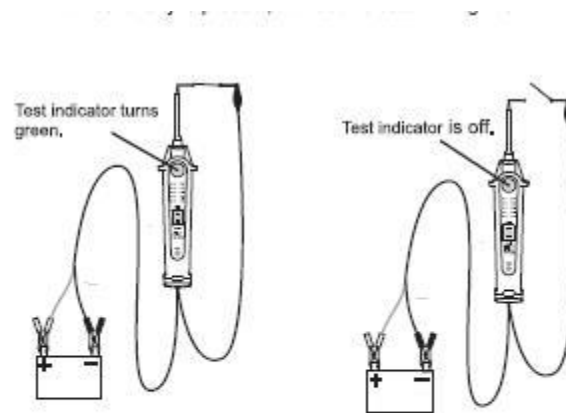
5. Continuity Test

Note: 1. Set the selection switch to the “TEST” position.

2. Don't press the rock switch,

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

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

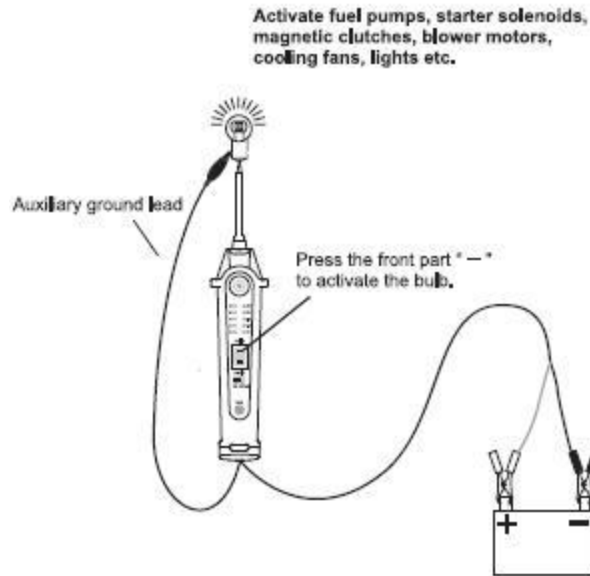


6. Activating Components out of the Vehicle's Electrical System

Note: Set the selection switch to the "TEST" position.

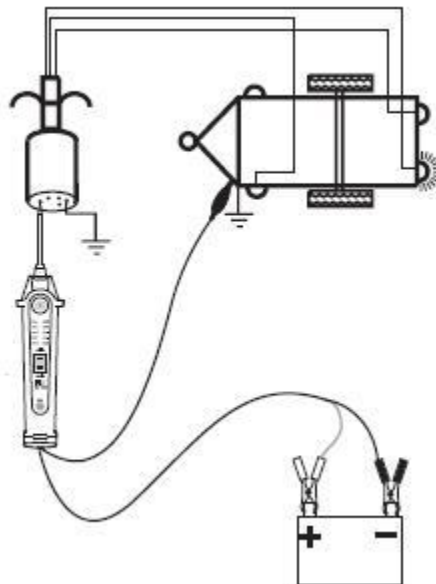
By using the probe tip together with the auxiliary ground lead, components can be activated, thereby testing their function.

Connect the auxiliary ground lead's clip to the negative terminal of the component to be tested. Contact the probe to the positive terminal of the component, the test indicator should light GREEN indicating continuity through the component.



7. Testing Trailer Lamps and Connections

- 1) Set the selection switch to the "TEST" position.
- 2) Connect the unit to a good battery.
- 3) Clip the clip of the auxiliary ground lead to the trailer ground.
- 4) Probe the contacts at the jack while pressing the rock switch's front part (" - "). This lets you check the operation and orientation of the trailer lamps.



8. Activating Electrical Components

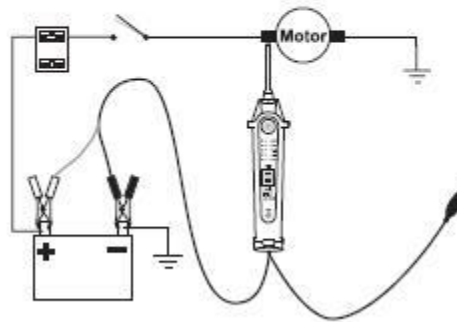
Note: Set the selection switch to the "TEST" position.

a. Activating components with the positive(+) voltage, Contact the probe tip to the positive terminal of the component, the test indicator should light GREEN. While keeping an eye on the green indicator, quickly press and release the rock switch's front part("—"). 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, the unit has been overloaded.

b. Activating electrical components with negative(—) voltage

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

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 performing test.



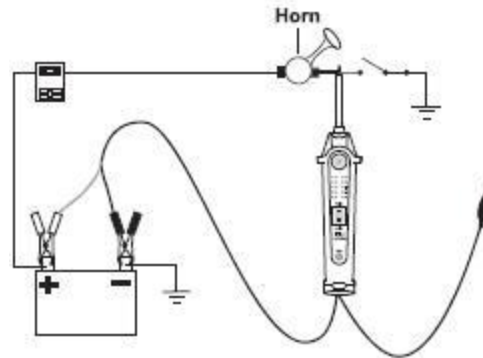
9. Jumper Lead Feature

Note: Set the selection switch to the "TEST" position.

The black battery clip and the auxiliary ground lead are connected directly through the unit. By leaving the red battery clip disconnected from the vehicle's battery, the unit can be used as a long jumper lead.

Be careful to avoid short circuits and overloading when using this jumper function. In this configuration, the leads are not protected by the unit's built-in circuit breaker.

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



10. Checking for Bad Ground Contacts

Note: Set the selection switch to the "TEST" position.

Probe the suspected ground wire or contact with the probe tip. Observe the green test indicator.

Press the rock switch's front part("—")then release.

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

If the test indicator turned off when you pressed the rock switch's front part("—")

