

The Coil On Plug (COP) ignition spark tester is a battery-operated, hand-held spark tester designed to easily indicate if a COP ignition is producing spark and if the spark is being used (burn duration) without the removal of any ignition components.

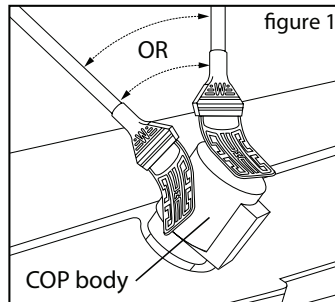
The tester determines if the COP is producing a sufficient amount of voltage for spark and if the spark is being used. If the voltage is sufficient, the tester beeps and the red LED flashes. If the spark burn duration is .2 mS or less, the green LED will flash.

Using the Tester

1. Thread the extension probe into the tester.
2. Push the signal receiver pad onto the extension probe.
3. Turn the tester on/off by rotating the sensitivity adjustment dial. A clicking may be heard and felt from the dial. To indicate the tester is on, the red and green LEDs rapidly flash alternately, and the tester emits an ascending beeping sound. The green LED continues to slowly flash to indicate the tester is on when no signal is detected.
4. Adjusting the probe sensitivity for the testing the vehicle:
 - Turn the adjustment dial to zero for minimum sensitivity.
 - With the engine running, firmly place the tester's signal receiver pad against the COP's body (see figure 1). Make sure the marked side of the pad is towards the COP.
 - Because the tester relies on a signal emitted from the COP body, it may be necessary to move the signal receiver pad around until the pad is in a position to pick up the strongest signal. Test each COP with the signal receiver pad in the same relative position. When the Red and Green LEDs begin to flash and the tester beeps simultaneously, stop adjusting the sensitivity dial.
 - At the current probe setting, continue to another COP. If the Red and Green LEDs do not begin to flash when the signal receiver pad is applied, move to another COP. Repeat

2–3 times. Adjust the dial and repeat the above steps until a consistent response is achieved over several COPs.

5. Continue testing each COP and compare the results.
 - It is important to test all of the vehicle's COPs and compare results. An inconsistent response from the majority of the COPs may indicate an abnormal condition and additional testing is recommended to verify results.
 - It is possible that a misfire may not develop while the engine is operating at low-speed, so it may be necessary to test the COP with the engine heated, under load, or brake torque (increased RPMs).



Test Results

Red LED

Consistent, steady flashing and beeping indicates the COP is producing a sufficient amount of voltage.

No response or an inconsistent response indicates the COP is NOT producing a sufficient amount of voltage. This may be caused by one of the following:

- No engine control module signal
- Resistance or poor primary wire connections
- Faulty coil, shorted windings

Green LED

Consistent and steady flashing indicates the spark burn duration is .2 mS or less..

No response or an inconsistent response indicates the spark is not burning by the spark plug. This may be caused by one of the following:

- Shorted windings inside the coil
- Damaged coil plug boot or faulty spark plug
- Faulty coil

Please refer to the vehicle's shop manual for instructions on troubleshooting and repairing/ replacing defective COPs.

Replacing the Battery

The Coil On Plug (COP) ignition Spark Tester uses a 3-volt CR2032 lithium battery.

1. Remove the two screws from the handle.
2. Carefully separate the handle and remove the old battery.
3. Place the new battery in the handle, positive (+) side facing up.
4. Reassemble and tighten the screws.

Note: It is recommended to visually inspect the signal receiver pad for any cracks or tears before every use. If damaged, replace the pad.

Contact Us

Whether you have a question about tool functionality, service or parts from Hickok Waekon, you may contact us by telephone during standard business hours 8-5pm EST or visit us online.

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Warranty

Subject to the conditions that follow and are noted below, this product is warranted to be free from defects in material and workmanship, under proper use and in accordance with the manufacturer's written recommendation and specifications, for a period designated below on all products:

- This product carries a one year warranty.

The manufacturer's obligation under this warranty is limited to unaltered products returned to the manufacturer by the initial end user of the new products. Therefore, this warranty does not cover any products resold by the end user to third parties, nor any reconditioned products sold as such, by the manufacturer. The sole remedy for any such defect shall be the repair, or replacement, of the product at the sole discretion of the manufacturer. This warranty does not cover expendable parts, such as batteries, nor does it cover shipping or handling. In addition, manufacturer is not liable for any loss or damage to product during shipping.

In the event it is determined that the product has been tampered with, or altered in any way, this warranty is void and all claims against the product will not be honored. All warranty claims must be submitted as outlined by the manufacturer and shall be processed in accordance with the manufacturer's established warranty claim procedures. These procedures include provisions that proof of purchase must be established (by either warranty card from the seller or by point of purchase receipt) and that the manufacturer will make every attempt to return ship the product within one business day from receipt of the returned product, freight prepaid.

In addition, all maintenance procedures, as outlined by the product manuals, should be followed for the warranty to be kept in force. Should the product not be used in accordance with procedures as specified, or if the product otherwise fails outside of the warranty, the manufacturer reserves the right to make such judgment and the party returning the product will be notified that written notification will be necessary to repair the product at a cost which the manufacturer deems as reasonable. The product will then be shipped back to the customer, COD; or as the manufacturer deems appropriate.

This is the only authorized manufacturer's warranty and is in lieu of all other expressed, or implied, warranties or representations, including but not limited to any implied warranties of merchantability or fitness or any other obligations on the part of the manufacturer. In no event will the manufacturer be liable for business interruptions, loss of profit, personal injury, costs of delays, or any special, indirect, incidental or consequential damages, costs or losses.

