

# IGNITION CONTROL MODULE (ICM) TROUBLESHOOTING GUIDE 1999-2001 2.0L Honda CR-V

## TABLE OF CONTENTS:

PRE-CHECK 1: TESTING FOR SPARK.....	2
PRE-CHECK 2: IGNITION MODULE POWER (12 V) TEST.....	3
TEST 1: IGNITION MODULE ACTIVATION SIGNAL TEST.....	4
RESOURCES.....	5

In this troubleshooting guide I'll explain how I test the ignition control module (ICM) on the 1999, 2000, and 2001 2.0L Honda CR-V. The cool thing is that testing the ICM can be done with a simple LED light that you can buy online or at your local electronic's store.

To further help you, I've also created a youtube video that ties-in with this guide. You can see the YouTube video here:

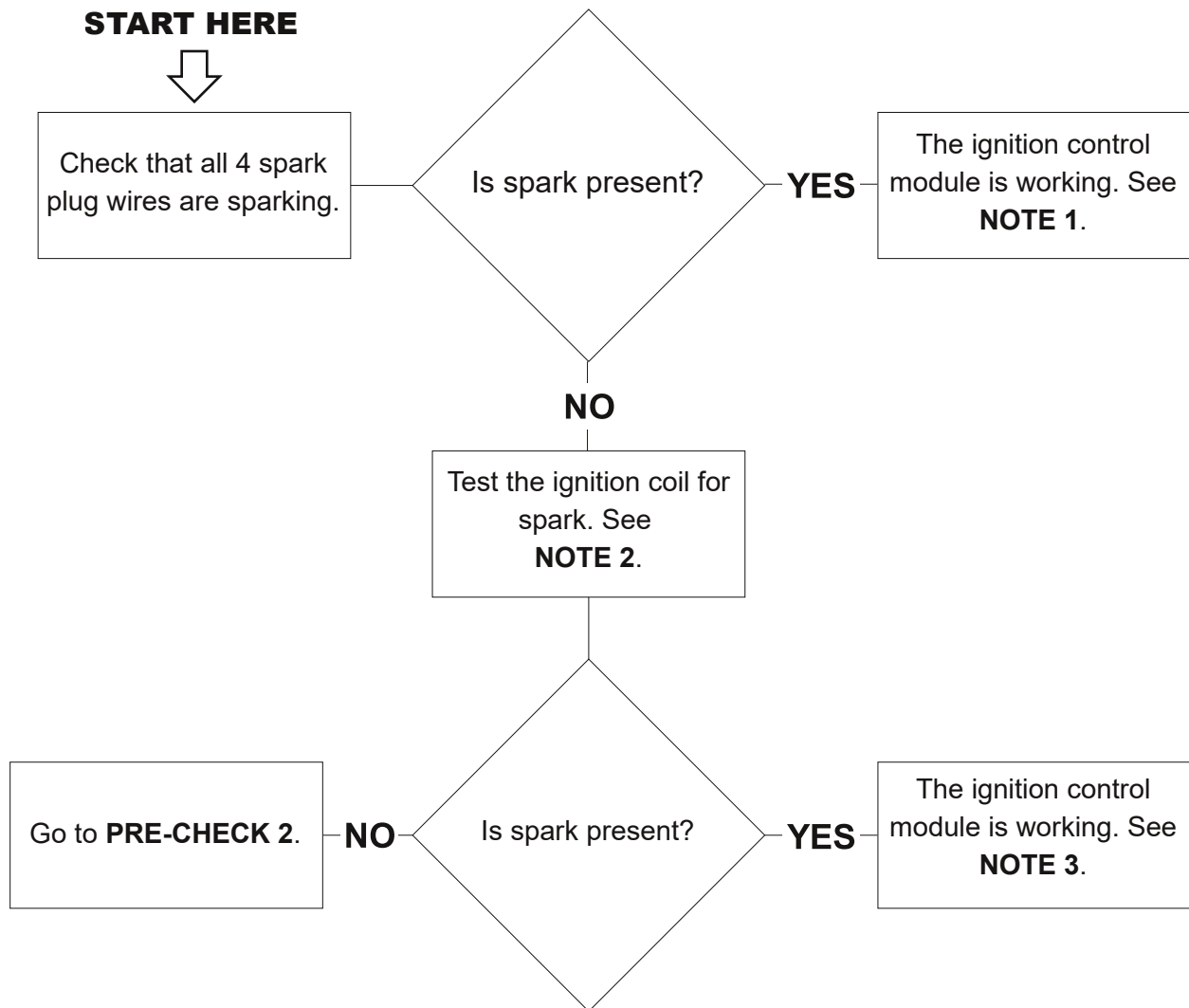
↗ <https://www.youtube.com/watch?v=VUDHWc6Jul4>

You can also find more info in this tutorial here:

↗ <https://easyautodiagnosics.com/honda/2.0L/testing-the-icm-1>

By the way, if you're reading this guide on an electronic device (PC, laptop, etc), you can click on the links and open them in your device's default browser. The clickable links will have the following symbol: ↗.

Before you test the ICM, it's important that you first test for spark at all 4 spark plug wires, test the ignition coil for spark, and that the ignition coil is getting battery power.



**NOTE 1:** If even one spark plug wire fires off spark, then you can conclude that the ICM and the ignition control module (ICM) are working correctly. A defective ignition control module will cause all 4 spark plug wires to not fire off spark.

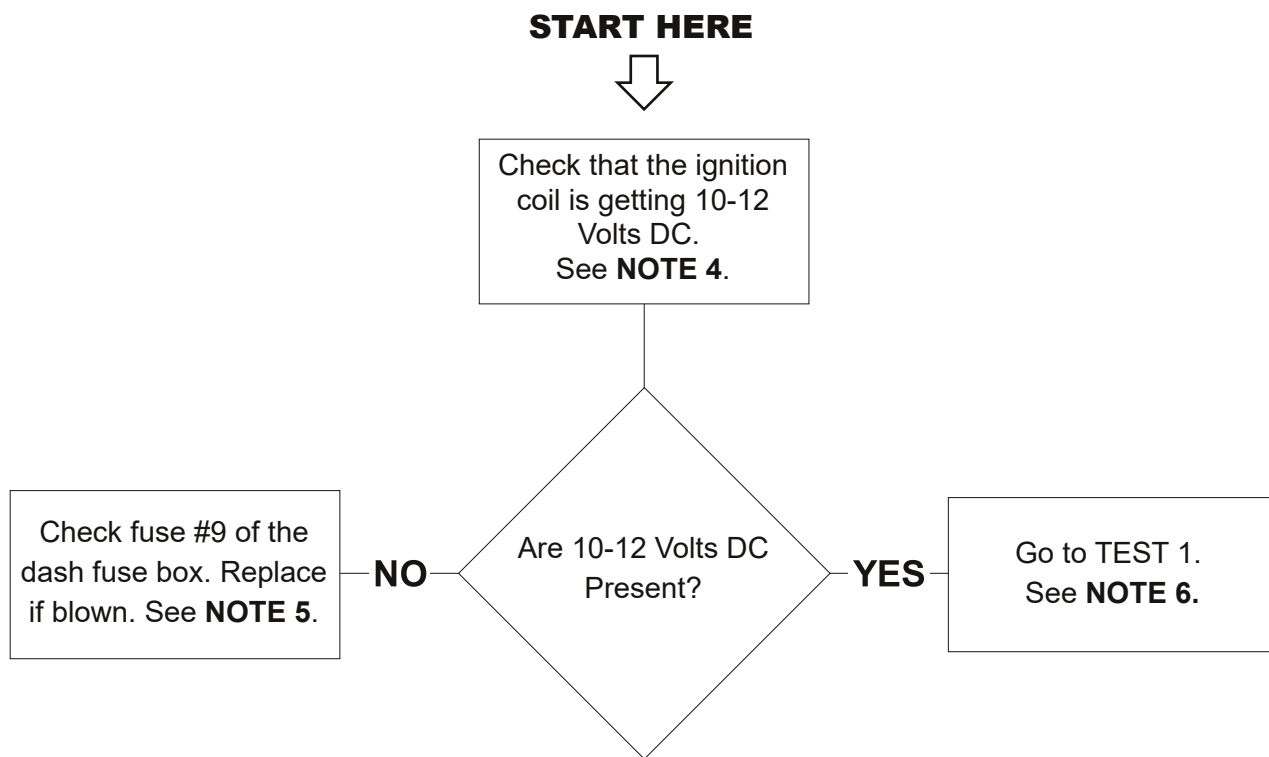
**NOTE 2:** You can find the ignition coil test explained in detail here:

↗ <https://easyautodiagnosics.com/honda/2.0L/testing-the-ignition-coil-1>

The following YouTube video shows how to do the ignition coil test:

↗ [https://www.youtube.com/watch?v=lcEsmK\\_V01I](https://www.youtube.com/watch?v=lcEsmK_V01I)

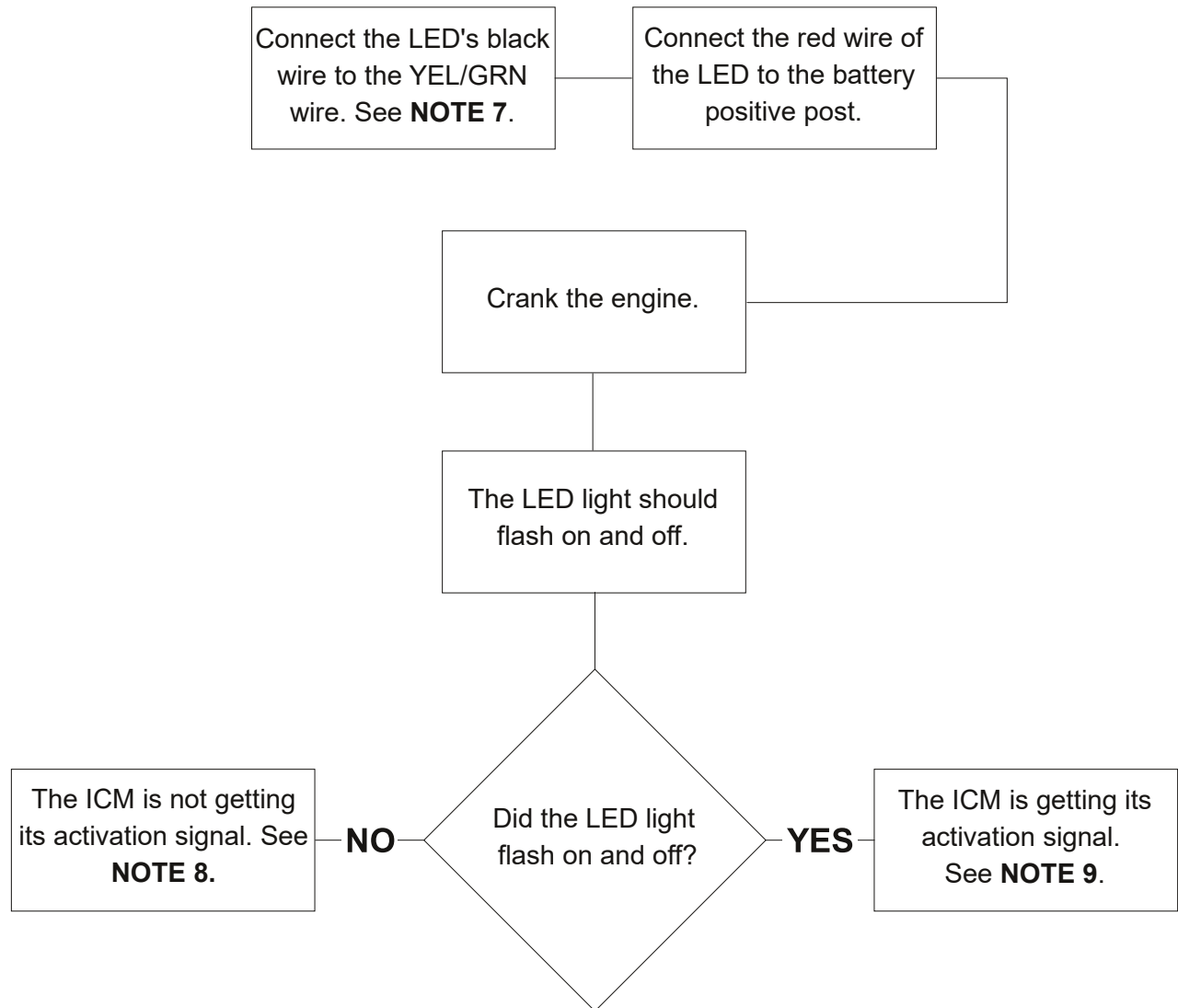
**NOTE 3:** If the ignition coil is sparking, then the ignition control module is OK (since it is creating and sending an activation signal to the ignition coil. Now, if you have a no-spark test result on all 4 spark plug wires, then you can conclude that the distributor cap and distributor rotor are defective (since these are the components that are not transmitting spark to the spark plugs).



**NOTE 4:** Both the ignition coil and the ignition control module (ICM) get power from the same circuit. By checking that the ignition coil has power, you're also checking the ignition control module is being powered up (not to mention it's easier to check for power at the ignition coil).

**NOTE 5:** Without power, the ignition control module will not function and the ignition system will not create nor deliver spark to the engine cylinders.

**NOTE 6:** Now that you've checked the basics, the next step is to check that the ignition control module is getting its activation signal from the fuel injection computer.



**NOTE 7:** The distributor must remain connected to its connector or this test will not work.

**NOTE 8:** Without an activation signal, the ICM will not activate the ignition coil. The end result is a no-start condition due to a lack of spark. A missing activation signal is usually the result of a defective crankshaft position sensor.

**NOTE 9:** This test result let's you know that the ICM is defective only if:

- All 4 spark plug wires are not sparking.
- The ignition coil is not sparking.
- The ICM is getting power and its activation signal.
- The ICM is not creating an ignition coil activation signal.

The following tutorials apply to the 1999, 2000, and 2001 2.0L Honda CR-V. If you're reading this PDF on an electronic device, you can click on the links.

YouTube video that explains the ignition control module test:

↗ <https://www.youtube.com/watch?v=VUDHWc6Jul4>

YouTube video that explains the ignition coil test:

↗ [https://www.youtube.com/watch?v=lcEsmK\\_V01I](https://www.youtube.com/watch?v=lcEsmK_V01I)

Ignition coil test tutorial at easyautodiagnosics.com:

↗ <https://easyautodiagnosics.com/honda/2.0L/testing-the-ignition-coil-1>

Ignition control module test tutorial at easyautodiagnosics.com:

↗ <https://easyautodiagnosics.com/honda/2.0L/testing-the-icm-1>

Ignition system wiring diagram:

↗ <https://easyautodiagnosics.com/honda/2.0L/ignition-system-diagram-1>