RLink Lite/RLink J2534 Case Study

TOPDON®

Honda Engine Fault Detection Case

How to Use TOPDON RLink Lite/RLink J2534 and IHDS to Perform Honda Diagnostics

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Vehicle Fault Problems

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Vehicle Fault Problems

1. **Vehicle Information**: 2019 Honda CRV car, with a driving mileage of 99,172 kilometers.
2. **Customer Phenomenon:** The customer reported that the Check Engine Light comes on while driving, and the acceleration is weak.

Fault Confirmation

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Fault Confirmation

1. According to customer feedback, check and confirm that the Check Engine Light is on.
2. Conduct a real-vehicle test, and the vehicle accelerated slowly.

Devices Required for Diagnostics

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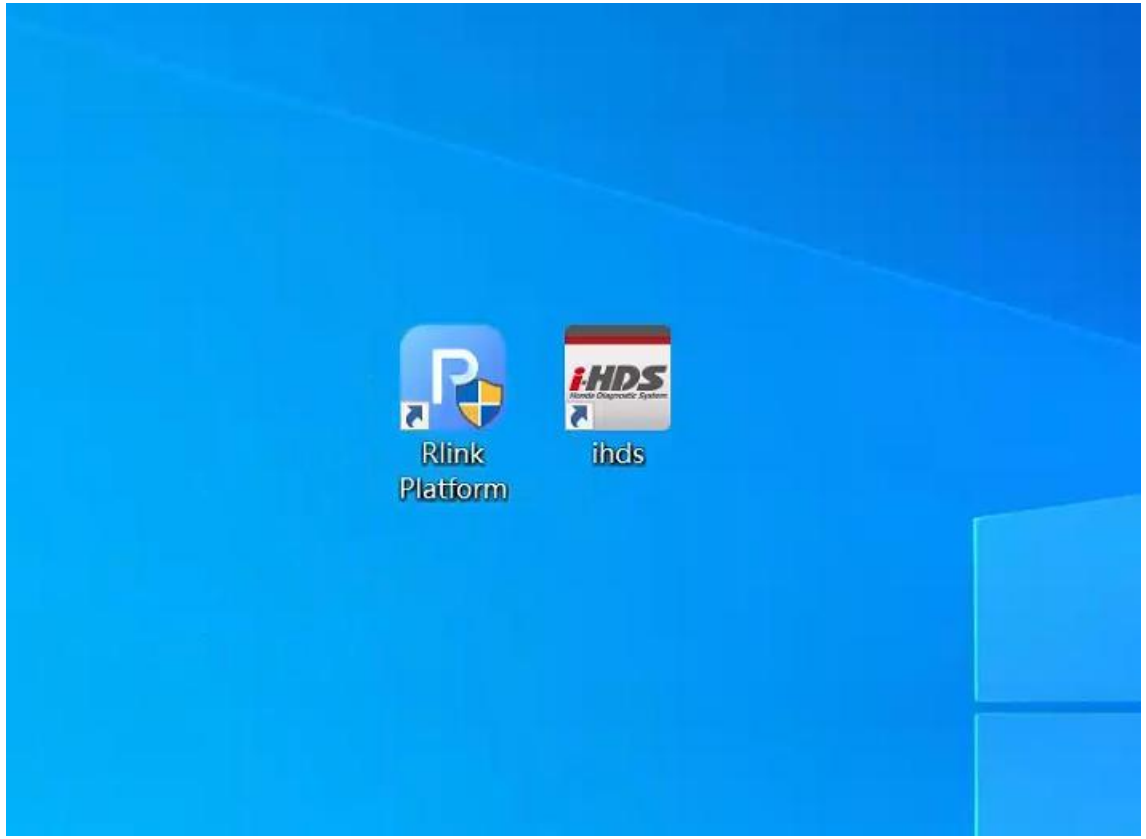
Devices Required for Diagnostics

RLink Lite

O

RLink J2534



Computer with GM OEM Software

Tips: Both the RLink Lite and the RLink J2534 can be used with GM OEM software for diagnostics.

Operations for Diagnostics

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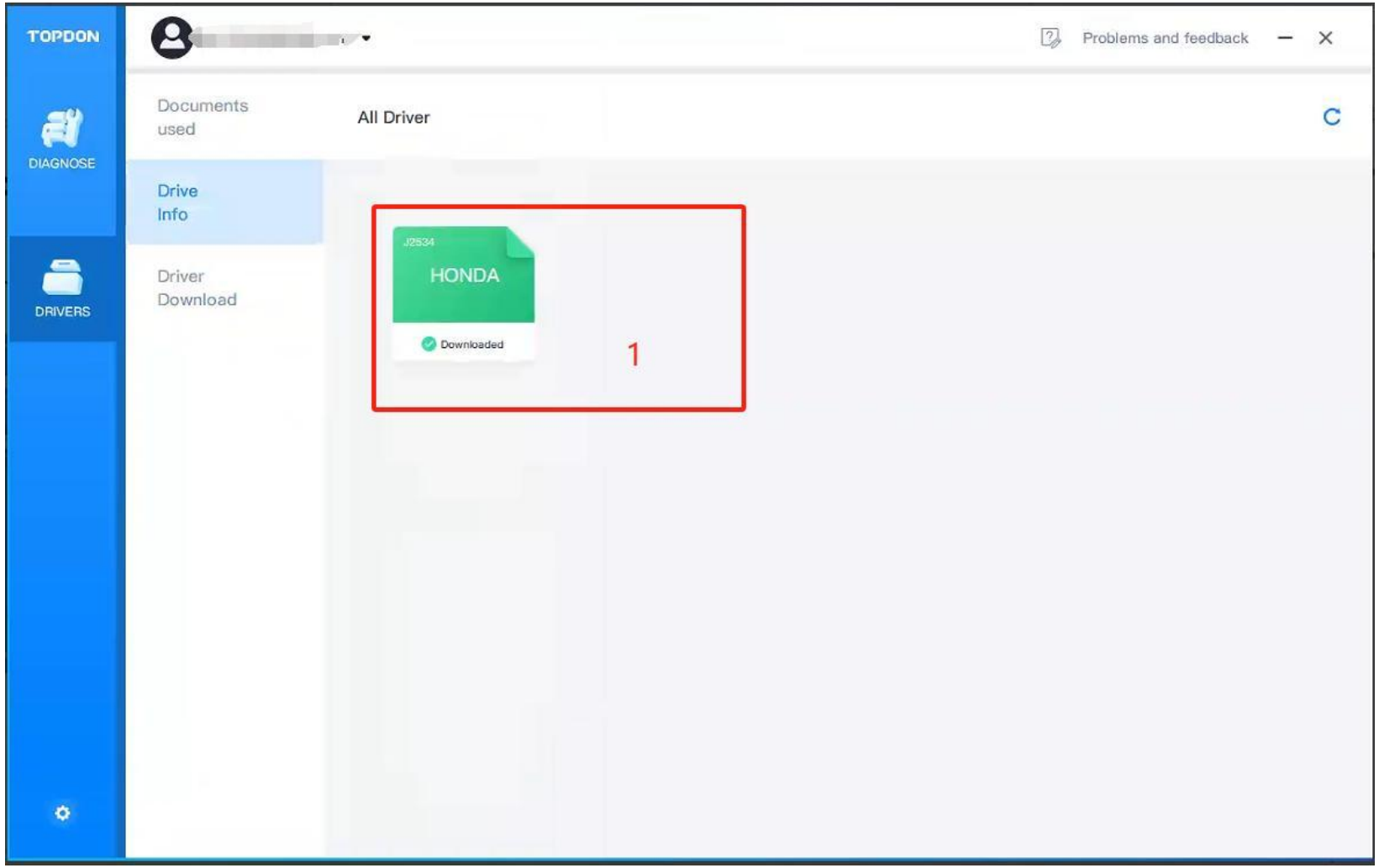
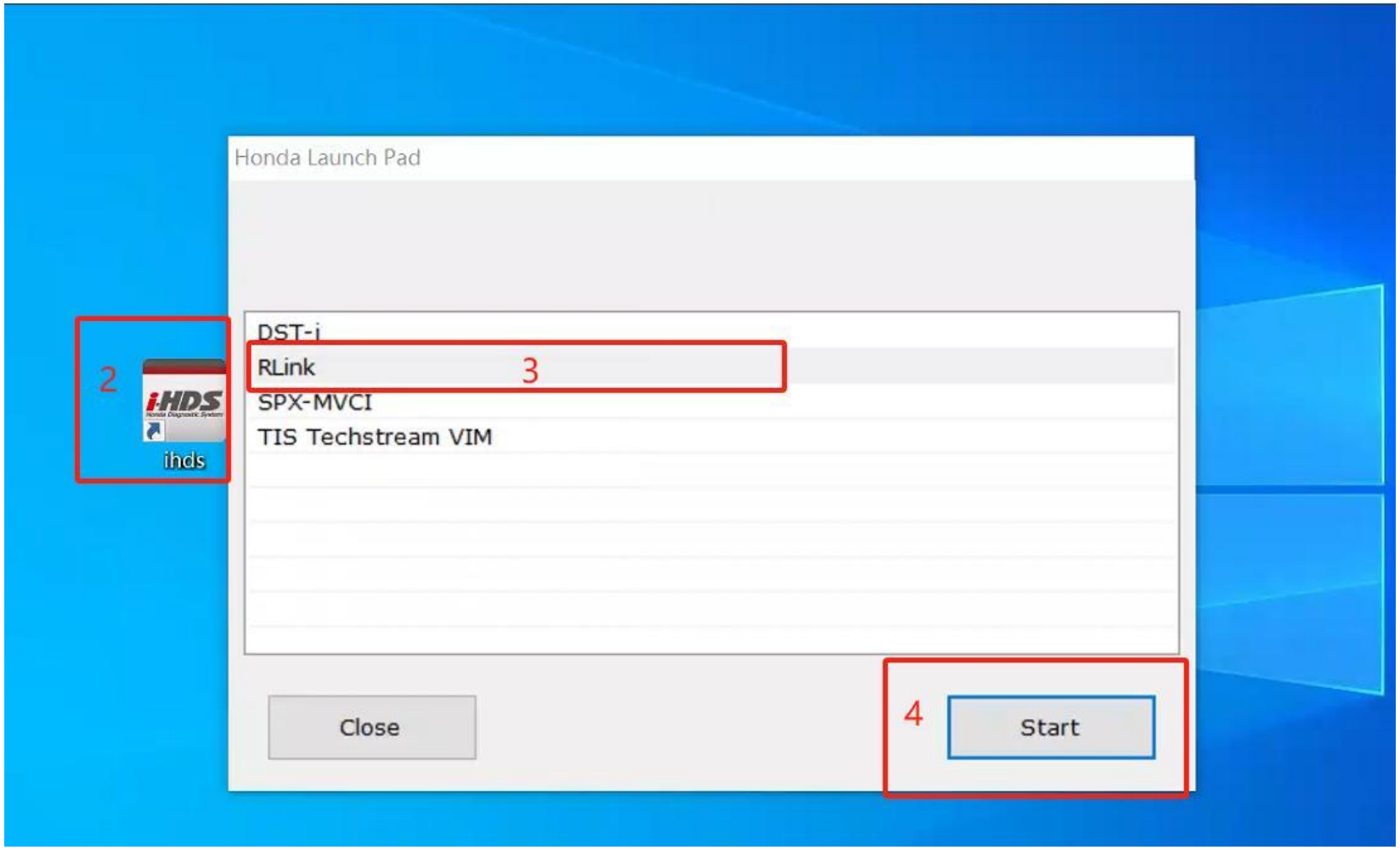
Operations for Diagnostics

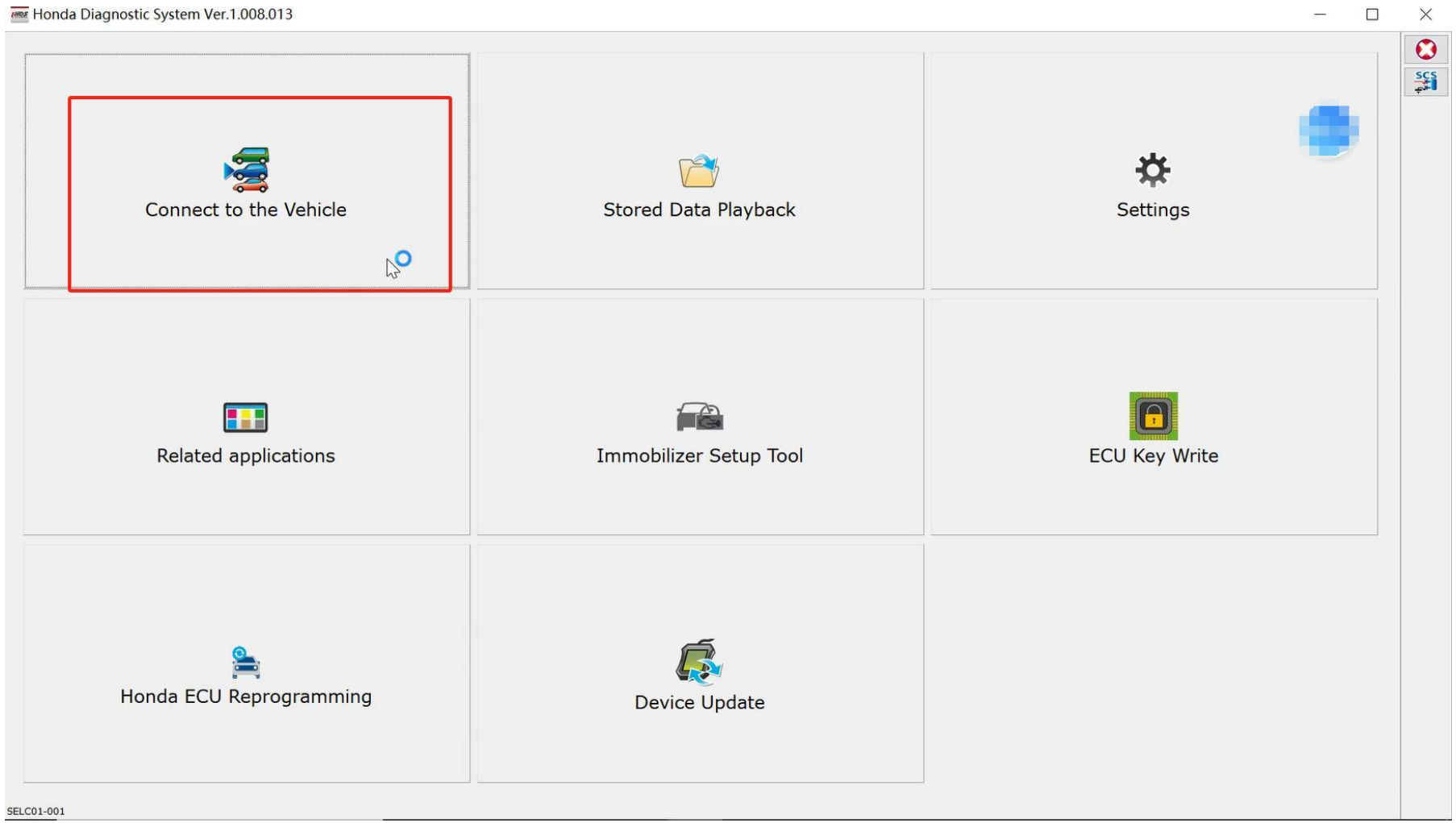
1. Open RLink Platform to download the Honda driver.



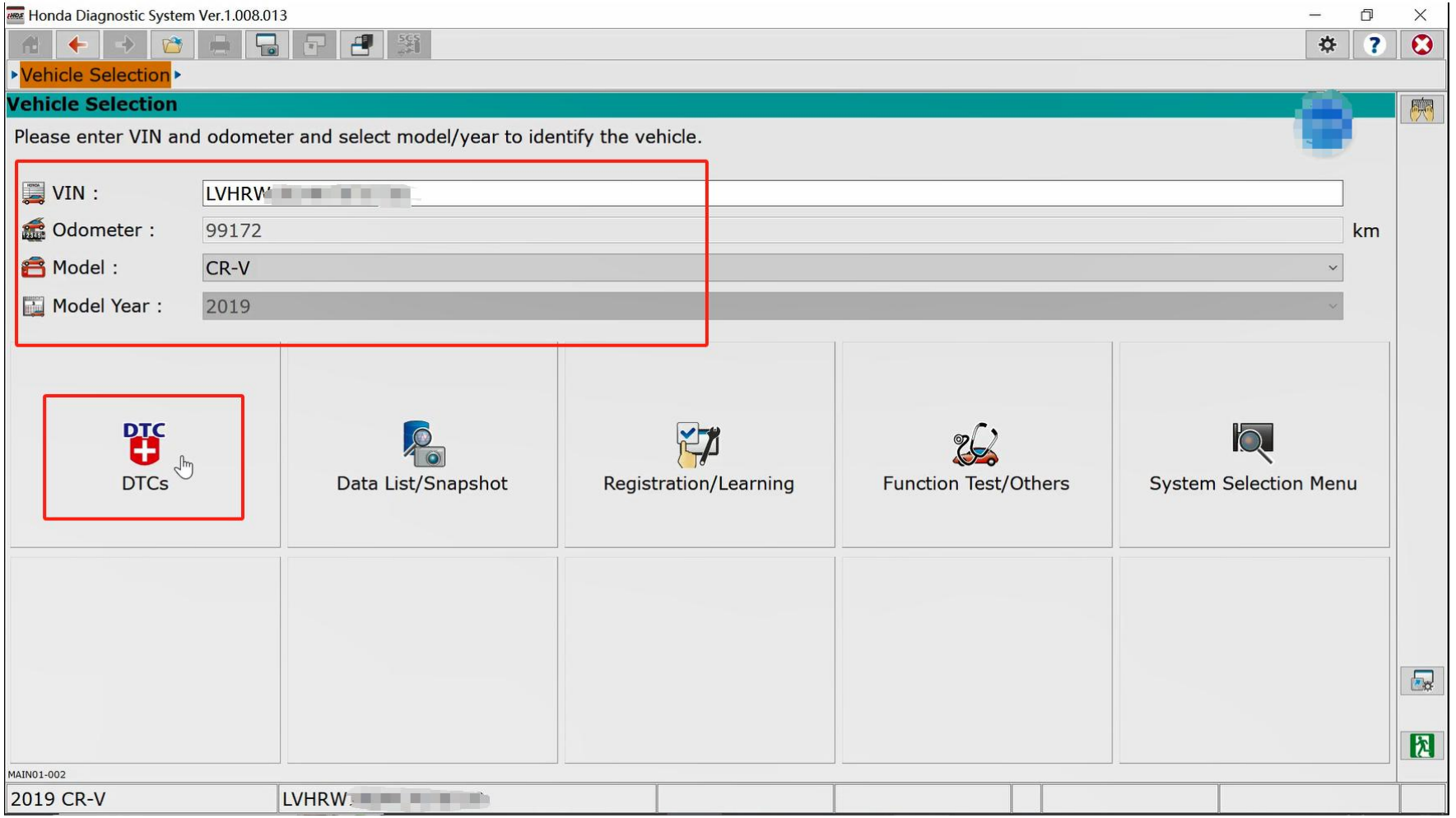
2. Open the I-HDS diagnostic software. Choose RLink for diagnostics and click Start.



3. Connect the device. Then click Connect to the Vehicle.



4. The vehicle will be automatically recognized. Click DTCs to perform vehicle trouble code diagnostics.



Troubleshooting

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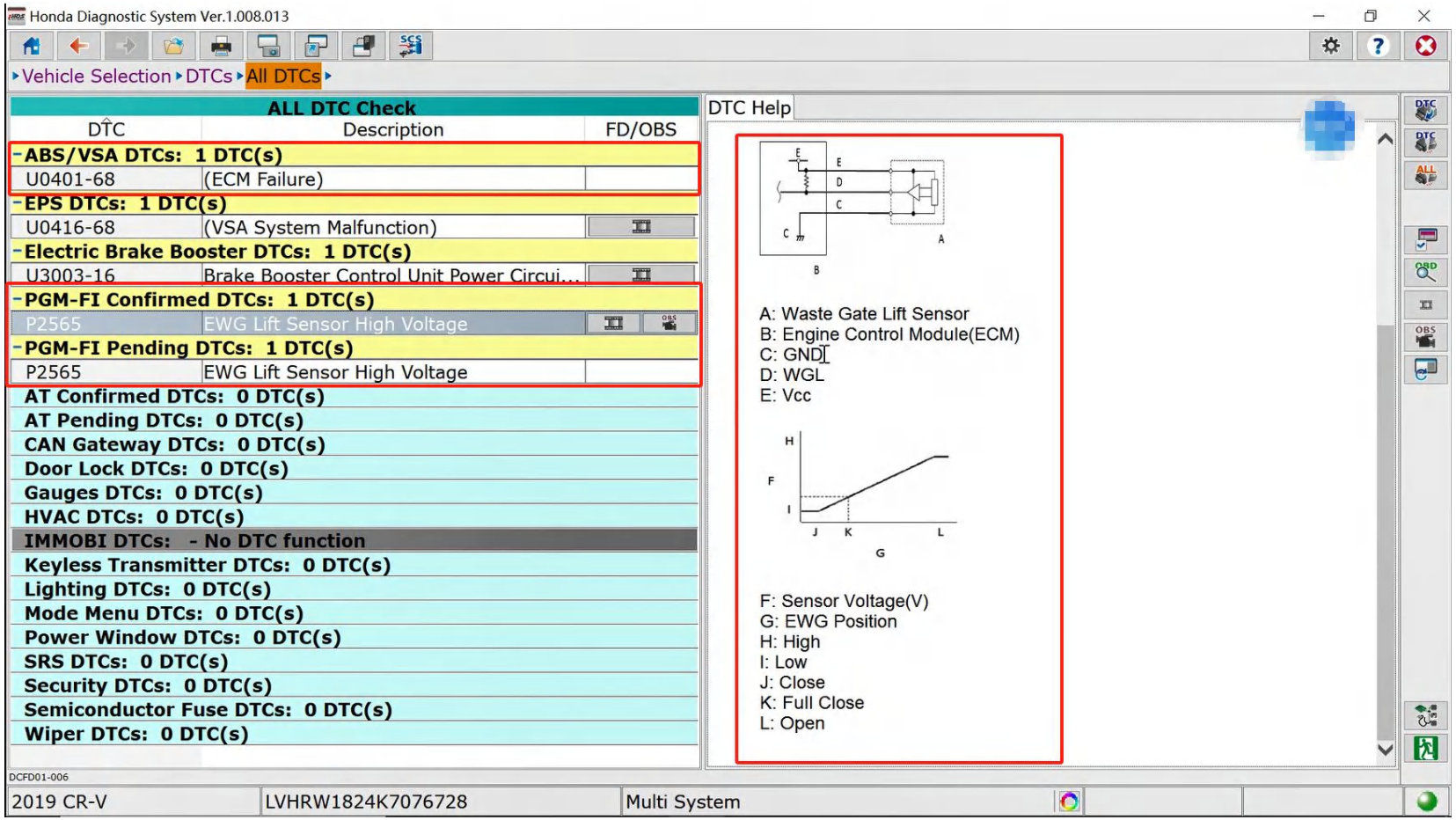
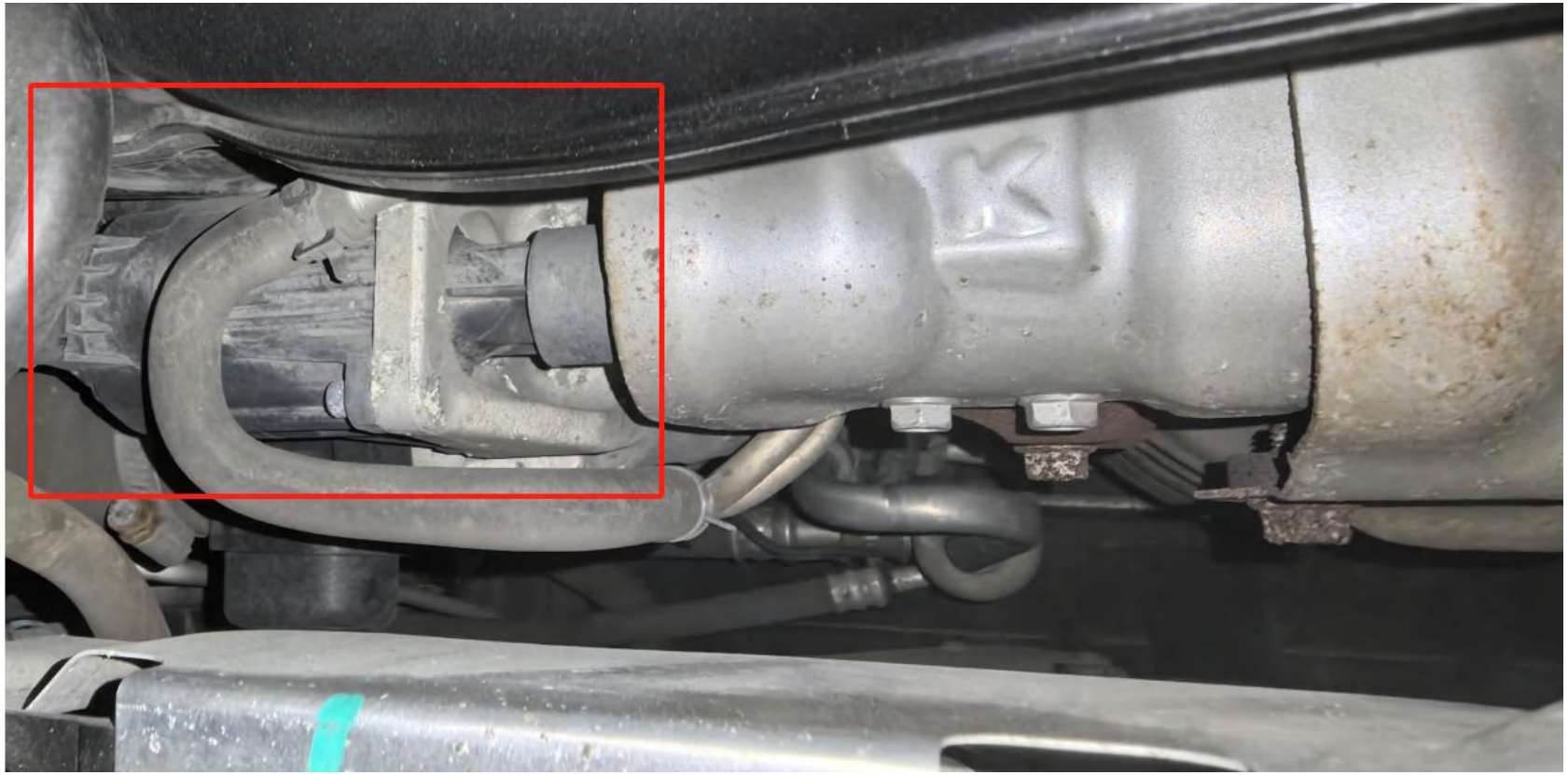
Troubleshooting

I. After the diagnostics are completed, the following faults are detected.
① ABS/VSA DTCs:U0401-68 (ECM Failure) fault.
② PGM-FI Pending DTCs: P2565 EWG Lift Sensor High Voltage fault.

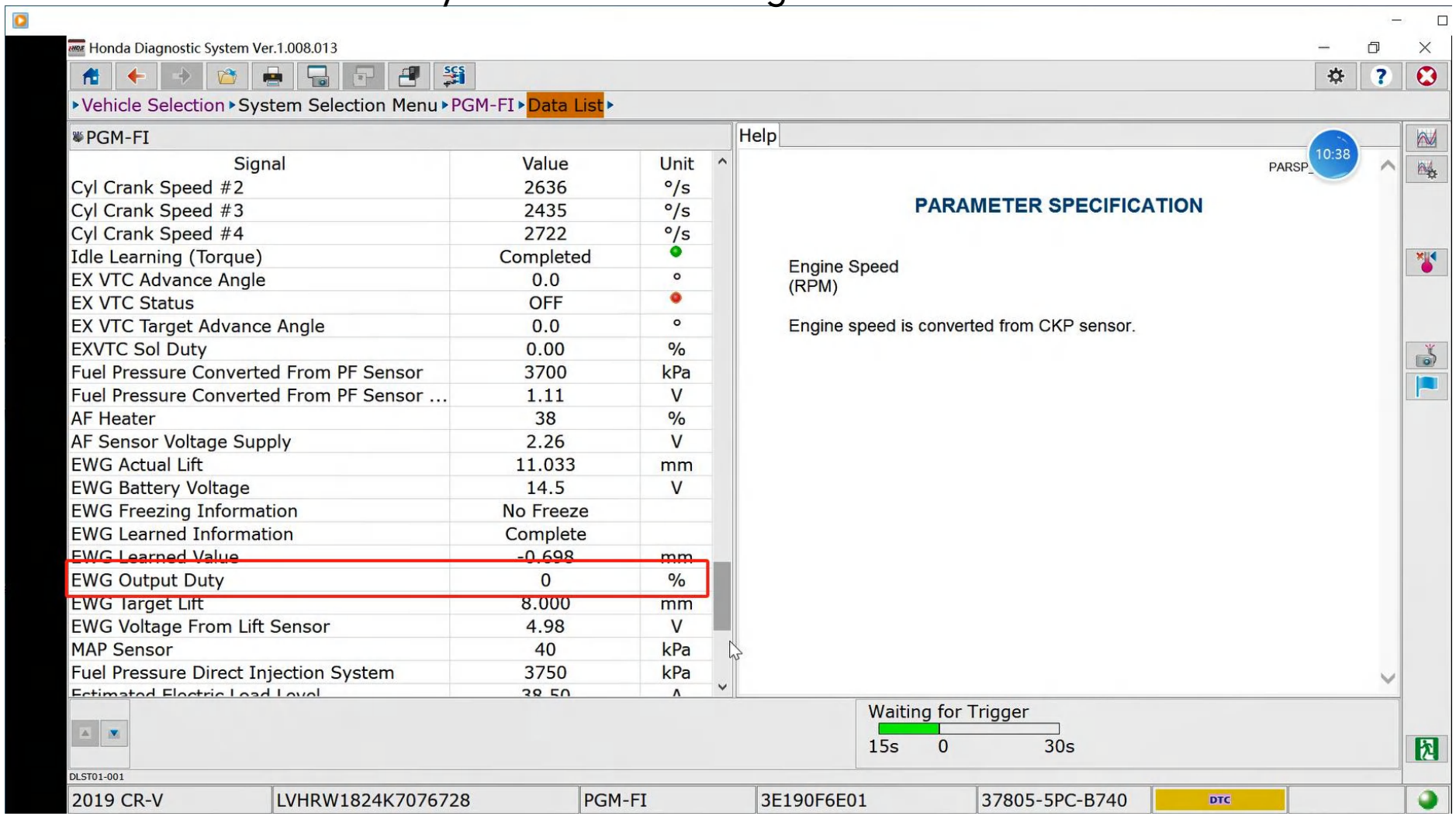


II. Fault Cause Analysis Base on DTCs and Fault Phenomenon

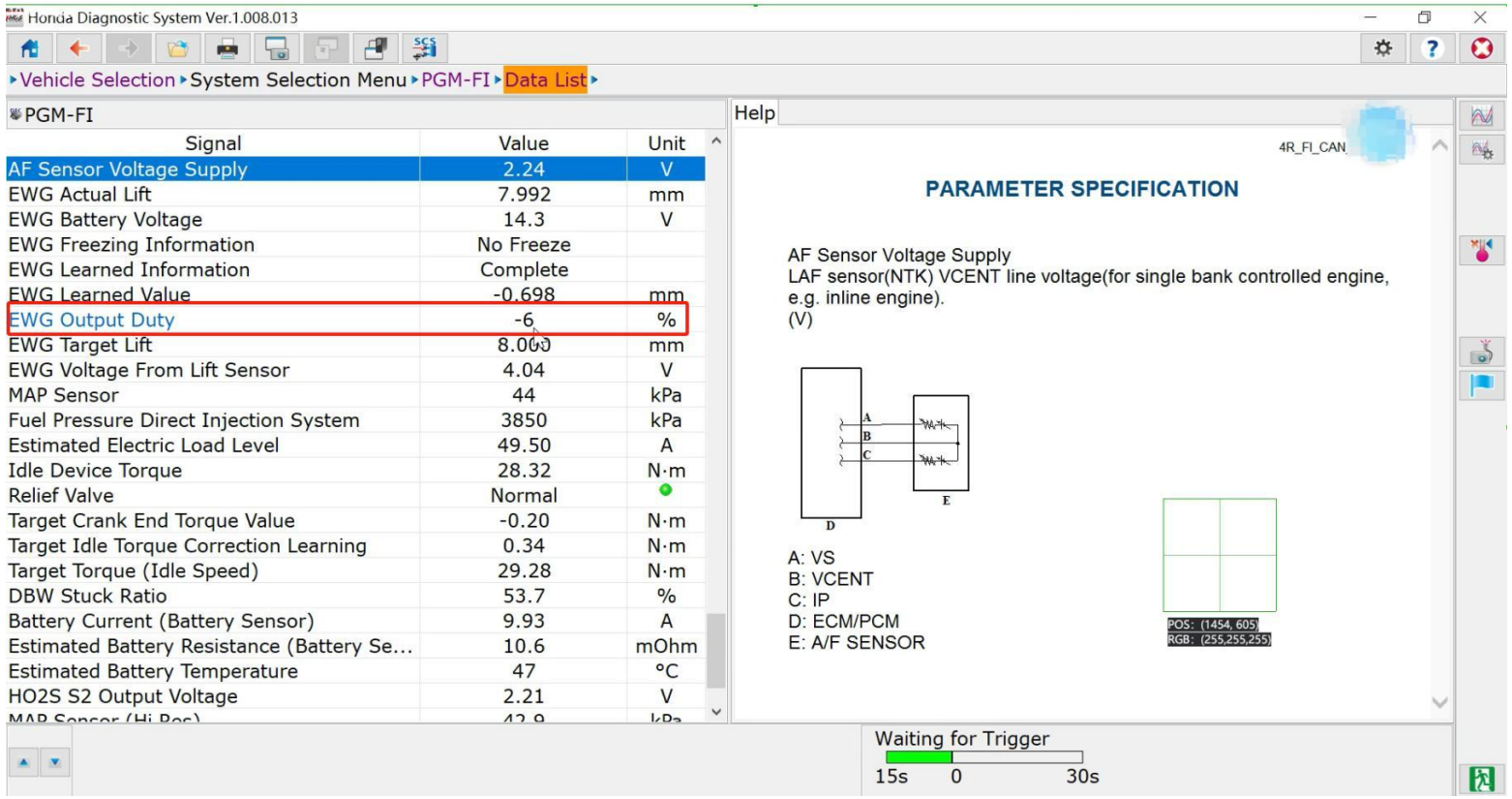
① Damage to the EWG valve.
② Damage to the EWG valve circuit.
③ Internal damage to the ECM.

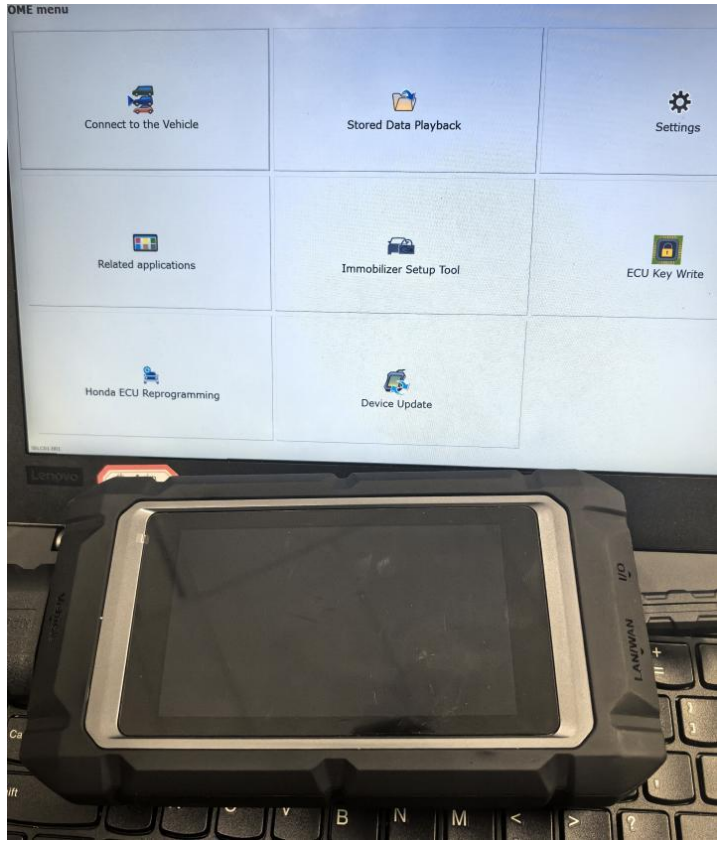


III. Check that the positive power supply of the EWG valve circuit, the negative bond strap, and the signal power supply are all normal. Conduct vehicle test, and check the EWG valve data stream, the EWG valve is not working and the EWG Output Duty data is always 0%. The cause of the fault may be internal damage to the EWG valve.



IV. Disassemble and inspect the EWG valve and found that the valve was loose inside. An internal fault may prevent the adjustment rod from adjusting and cause damage. Replace the EWG valve, and conduct vehicle test, the fault is eliminated. The EWG Output Duty data stream returns to normal, confirming that the fault is resolved.





Using RLink J2534 and Computer with Honda OEM Software to Perform Diagnostics

THANKS