

Troubleshooting - PMCI-2 ECU power-down sequence

Follow this troubleshooting procedure in case of incorrect accumulation of mileage on the odometer.

The PMCI-2 ECU is powered through the ECU main relay, which continues to provide full power to the PMCI-2 ECU after the key is moved to the OFF position.

After the ignition is switched off, the PMCI-2 ECU remains active for approximately 15 seconds. Then, important trip information, such as accumulated mileage and fault code information, is moved from temporary memory to permanent Non-Volatile Memory (NVM).

Perform the following steps to make sure that the power-down sequence is not interrupted.

Step-by-Step Troubleshooting

Step 1: Inspect the DOC

Step 1A - Inspect vehicle for a battery disconnect	
Action 1. Inspect the truck for a battery disconnect.	
Is a battery disconnect installed?	
YES	NO
Driver may be disconnecting the battery before the power-down sequence is completed. Inform the driver that at least 30 seconds must elapse between the time the key is switched off and the time the battery is disconnected.	
Go to step 2A.	Go to step 2A.

Step 2- Check PMCI-2 ECU power supply circuit

Step 2A- Check the wiring harness from ECU main relay to PMCI-2 ECU

Action

1. Disconnect the B (J2) connector from the PMCI-2 electronic unit.
2. Measure the harness resistance between the ECU main relay and pin B60, pin B61 and pin B62 of the PMCI-2 ECU B (J2) connector. The wire resistance of all three wires should be lower than 0.1 ohm and the values should be within 20% of each other.

Are the resistances between the ECU main relay and the PMCI-2 ECU B (J2) connector pins lower than 0.1 ohm and within 20% of each other?

YES

NO

Replace the wiring harness.

Go to Step 2B

Step 2B- Check the wiring harness from PMCI-2 ECU to negative battery clamp**Action**

1. Measure the harness resistance between terminal and pins B57, B58 and B59 of the PMCI-2 ECU B (J2) connector and the negative battery clamp. The wire resistance of all three wires should be lower than 0.1 ohm and the values should be within 20% of each other.

Are the resistances between the negative battery clamp and PMCI-2 ECU B (J2) connector pins lower than 0.1 ohm and within 20% of each other?

YES

NO

Replace the wiring harness.

Go to Step 2C

Step 2C- Check ECU main relay coil resistance**Action**

1. Measure the ECU main relay coil resistance between the positive battery clamp and pin B03 of the PMCI-2 ECU B (J2) connector

Is the resistance more than 1000 ohms?

YES

NO

Replace the PMCI-2 ECU.

PMCI-2 ECU has failed. Replace the PMCI-2 electronic unit – see Rapido or contact the Engine Support Center for details.

M041885 - 04/18/2014 07:04:48

This information applies exclusively to the entered chassis number or the selected engine type. Please take into account that this information may change daily. Therefore the provided information is only valid on 12-19-2015. You cannot derive any rights from the information provided with respect to vehicles and/or components of another series, with another chassis number, and/or of another date. (/)