

Technical Service Bulletin Number
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TSB150061



Technical Service Bulletin

Subject

INSITE™ electronic service tool NOx Reset Test Issues and Recommendations

Issue

Product Affected

- ISX15 CM2250 SN
- ISM11 CM876 SN

The INSITE™ electronic service tool NOx Reset Test is needed to reset the On-Board Diagnostics (OBD) NOx monitor after troubleshooting/repairs of fault codes 2772, 2773. The INSITE™ electronic service tool NOx Reset Test is part of the repair verification.

There are several conditions noted by INSITE™ electronic service tool, displayed in the test screen, which **must** be fulfilled. However, there are additional conditions **not** noted by INSITE™ electronic service tool that can cause test initiation failure and/or return a “Failed” result.

There are also conditions that **must** be fulfilled if the test shows “Paused”.

Verification

When using the INSITE™ electronic service tool NOx Reset Test, please see Resolution section below if any of the following issues are encountered:

- Unable to be started
- Shows “Paused”
- Returns a “Failed” decision

Resolution

Ensure the following conditions have been met before attempting to start the INSITE™ electronic service tool NOx Reset Test.

NOTE: NOTE: If the unit is not set up to run over 2000 Revolutions Per Minute (RPM) the INSITE™ electronic service tool NOx Reset Test should not be used. The unit must be driven instead. Observe posted speed limits, traffic laws, and road conditions. Follow the below driving conditions:

- Loaded (preferably with trailer)
- Engine speed between 1300 and 1500 RPM
- Highway driving (or equivalent duty cycle)

INSITE™ electronic service tool NOx Reset Test enable conditions (verified by INSITE™ electronic service tool):

- Clutch pedal is released
- Brake pedal is released
- Transmission is in neutral or park
- Power Takeoff (PTO) or Remote (PTO) is off
- Vehicle speed is 0 mph
- Parking brake is set
- Throttle pedal is released

INSITE™ electronic service tool NOx Reset Test enable conditions (**not** verified by INSITE™ electronic service tool)

- Ambient temperature is above 0 °C [32 °F]
- If ambient temperature is below 18 °C [65 °F], the front grill must be completely covered
- Cooling fan is engaged
- Idle shutdown is disabled

Once enable conditions are all "fulfilled" the INSITE™ electronic service tool NOx Reset Test is able to be started. The status bar will display "Paused" for a period of time, see Figure 1.

This means the OBD NOx monitor is **not** ready to collect data and make a pass or fail decision.

This condition will eventually clear and the status bar will advance. Once the status bar reaches 100%, INSITE™ electronic service tool electronic service tool will return "Passed," see Figure 2, or "Failed," see Figure 3.

1. If the test passes, the OBD NOx monitor has collected adequate data and the repair has been validated. The OBD NOx monitor has been reset, see Figure 2.

- No action needed

2. If the test "fails" the repair is **not** validated and further troubleshooting is needed.

- Refer to troubleshooting, take appropriate actions, and then re-run test

3. If the test will **not** complete and reach a pass or fail decision (status bar does not reach 100%), please see the following suggestions:

- Test **must** be repeated until OBD NOx monitor accumulates sufficient data to make a pass or fail decision
- A key cycle is required when repeating the test

4. If the test repeatedly fails to complete, the unit **must** be driven instead. Observe posted speed limits, traffic laws, and road conditions. Follow the below driving conditions:

- Loaded (preferably with trailer)
- Engine speed between 1300 and 1500 RPM
- Highway driving (or equivalent duty cycle)

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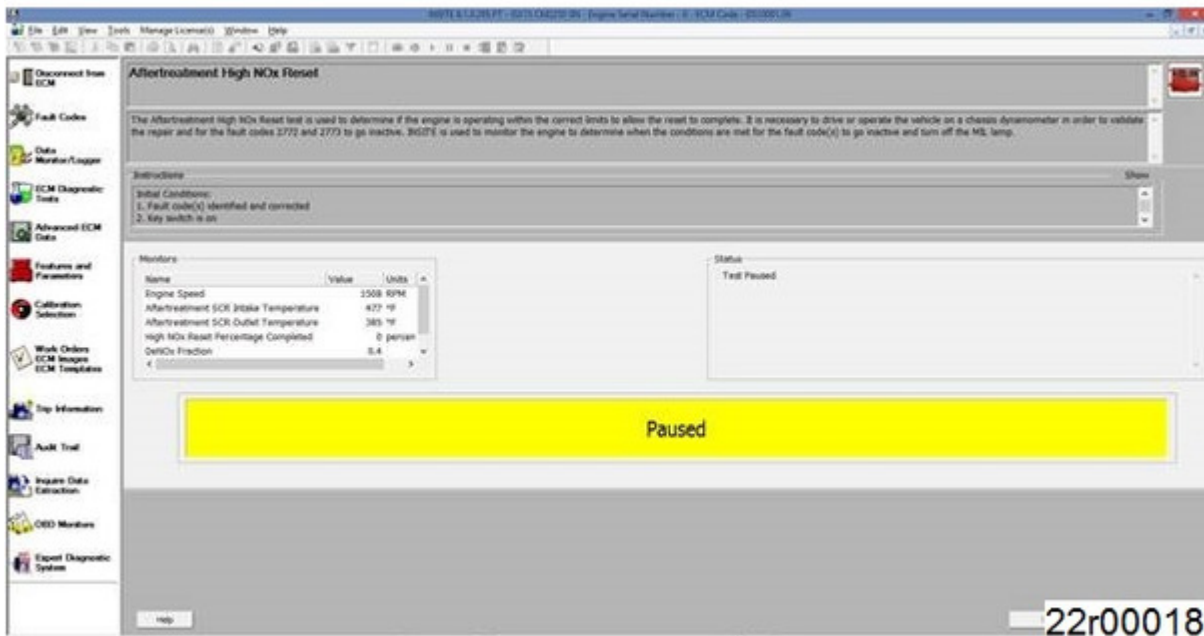


Figure 1, Status Bar Paused

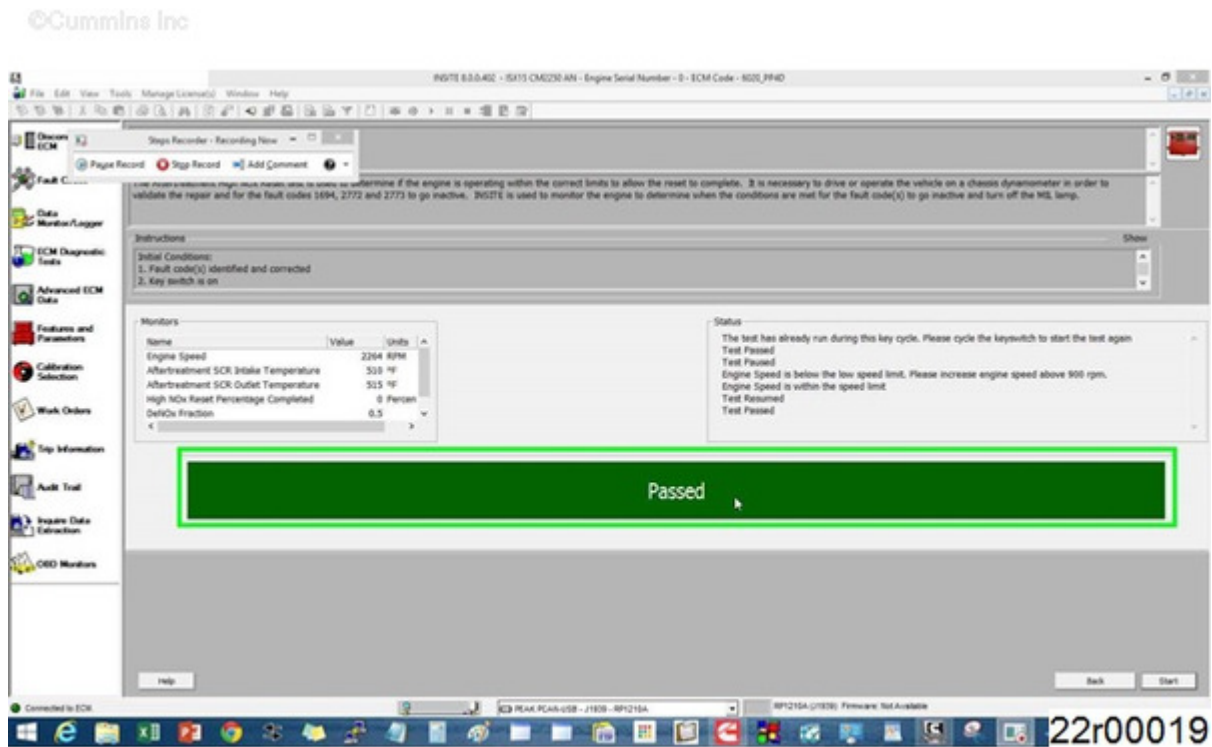


Figure 2, Status Bar Passed

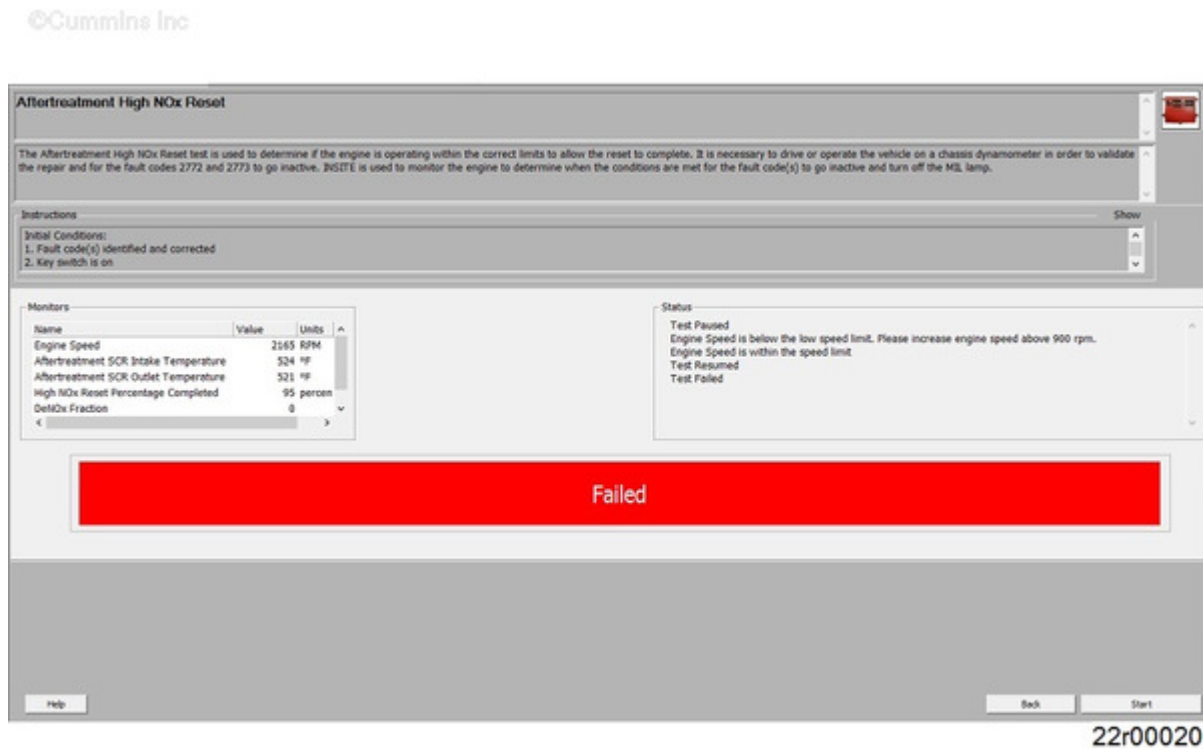


Figure 3, Status Bar Failed

Warranty Statement

The information in this document authorizes specific changes to the repair practice for failures covered under product warranty coverages.

Document History

Date	Details
2015-5-4	Module Created

Last Modified: 23-Jun-2015

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