

## **POWERTRAIN VERIFICATION TEST VER - 5 (DIESEL)**

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1. 1. Check if any of the following conditions exist.
2. 2. The ECM has been disconnected or replace.
3. 3. The Battery power has been disconnected.
4. 4. Inspect the vehicle to ensure that all engine components are properly installed and connected. Reassemble and reconnect components as necessary.
5. 5. If any existing diagnostic trouble codes have not been repaired, go to Symptom List and follow path specified.
6. 6. Connect the scan tool to the data link connector.
7. 7. Ensure the fuel tank has at least a quarter tank of fuel. Turn off all accessories.
8. 8. Perform steps 15 through 17 if the PCM has been replaced. Then proceed with the verification. If the ECM has not been replaced skip those steps and continue verification.
9. 9. If ECM has been changed and correct VIN and mileage have not been programmed, a DTC will be set in ABS and Air bag modules. In addition, if vehicle is equipped with a Sentry Key Immobilizer Module (SKIM), Secret Key data must be updated to enable start.
10. 10. For ABS and Air Bag systems: Enter correct VIN and Mileage in ECM. Erase codes in ABS and Air Bag modules.
11. 11. For SKIM theft alarm: Connect scan tool to data link connector to Theft Alarm, SKIM, Misc. and place SKIM in secured access mode by using appropriate PIN code for this vehicle. Select Update the Secret Key data. Data will be transferred from SKIM to PCM.
12. 12. If a Comprehensive Component DTC was repaired, perform steps 10-13. If a Major OBDII Monitor DTC was repaired skip those steps and continue verification.
13. 13. After the ignition has been off for at least 10 seconds, restart the vehicle and run 2 minutes.
14. 14. If there are no new DTC's, the repair was successful and is now complete. Erase DTC's and disconnect the scan tool.
15. 15. If the repaired DTC has reset, the repair is not complete. Check for any related TSB's or flash updates and return to the Symptom list.
16. 16. If another DTC has set, return to the Symptom List and follow the path specified for that DTC.
17. 17. With the scan tool, monitor the appropriate pre-test enabling conditions until all conditions have been met. Once the conditions have been met, switch screen to the appropriate OBDII monitor, (Audible beeps when the monitor is running).
18. 18. If the monitor ran, the repair was successful and is now complete. Erase DTC's and disconnect the scan tool.
19. 19. If the repaired OBDII trouble code has reset or was seen in the monitor while on the road test, the repair is not complete. Check for any related technical service bulletins or flash updates and return to Symptom List.
20. 20. If another DTC has set, return to the Symptom List and follow the path specified for that DTC.

### **Is any DTC(s) present?**

- Yes** • Repair is not complete, refer to appropriate symptom.
- No** • Repair is complete.