Date: March 22, 2021

Order No: 07.16-N-071521

Group: 07.16

SUBJECT: **Instructions for handling fault code P167200 in combination with misfire fault codes**

MY 2010 – 2012 Mercedes-Benz / Freightliner Sprinter

Model: 2500 and 3500

Symptom: MIL Illuminated.
Fault Code P167200 is stored in the CDI control unit (N3/35) in combination with fault codes for combustion failure (Misfire).

- P167200 Coolant temperature sensor has a malfunction. There is a signal below the permissible limit value.
- P16C100 Combustion failures have been detected in several cylinders.
- P16C200 Combustion failure detected in cylinder 1.
- P16C300 Combustion failure detected in cylinder 2. (Firing order!)
- P16C400 Combustion failure detected in cylinder 3. (Firing order!)
- P16C500 Combustion failure detected in cylinder 4. (Firing order!)
- P16C600 Combustion failure detected in cylinder 5. (Firing order!)
- P16C700 Combustion failure detected in cylinder 6.

Please Note: The fault codes for combustion failure are erroneously set when fault code P167200 is triggered in the CDI control unit (N3/35).

Remedy: Follow diagnostic instructions below for fault code P167200 and ignore the fault codes for combustion failure.

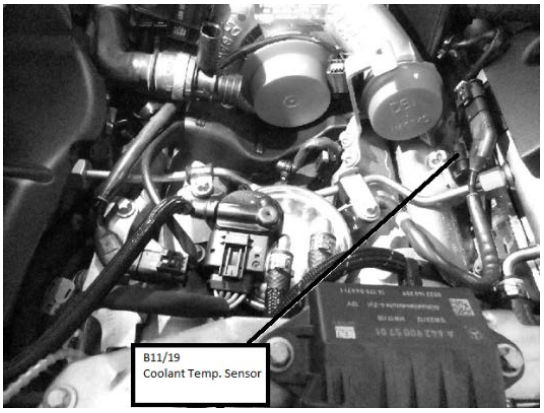
Workshops with Generic Scan-Tool, follow the diagnostic instructions starting on page two.
No action is required for erroneously set combustion failure codes.

Mercedes-Benz and Freightliner Dealerships with Xentry Diagnostics, please follow the Xentry guided test for fault code P167200. Disregard erroneously set combustion failure codes.

Please refer to XENTRY TIPS or StarTekInfo for the most up-to-date information.

⚠Warning	**Risk of injury**. Skin or eye injuries may result when handling hot or glowing objects.	Wear protective gloves, protective clothing and safety glasses, if necessary.	AS00.00-Z-0002-01A
⚠Warning	**Risk of accident** from vehicle starting off by itself when engine running. **Risk of injury** (bruises and burns) resulting from working on the engine while it is being started or when it is running. Perform engine test run and check engine in area of high-pressure line (**1**) for lea	Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
⚠Warning	**Risk of injury** to skin and eyes suffering scalding from contact with hot coolantspray. **Risk of poisoning** from swallowing coolant.	Do not open cooling system unless coolant temperature is below 90 °C. Open cap slowly and release the pressure. Do not pour coolant into beverage containers. Wear protective gloves, protective clothing and safety glasses.	AS20.00-Z-0001-01A
⚠Caution	**Risk of injury** caused by scraping or cutting body parts on sharp vehicle parts	Always wear protective gloves when working on or near sharp and non-deburred vehicle parts. Deburr repair panels.	AS00.00-Z-0017-01A

1. Check actual values of component B11/19 (Coolant temperature sensor)
   - Connect scan tool to OBD port
   - Unplug wiring harness connector of B11/19
   - Switch on ignition
   - Check actual values of coolant temperature sensor for plausibility

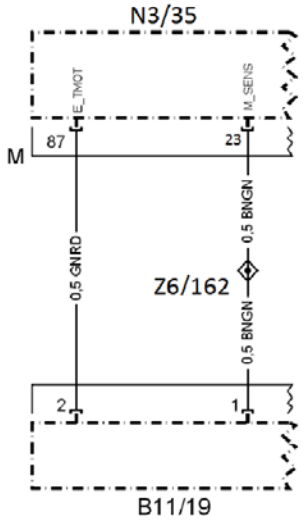


Specified Values:

- Connector at B11/19 unplugged approx. -20°C
- Connector at B11/19 unplugged approx. 5V

If the values are within range, inspect the wiring harness and the connector pins for loose contact and corrosion.

2. Check supply voltage of component B11/19



Legend:

N3/35 (CDI Control Unit)

B11/19 (Coolant Temp Sensor)

Z6/162 (Sensor ground connection, connector sleeve 4)

Special Tools:

Adapter cable 220 589 00 99 34

Check Voltage:

- Switch off ignition
- Unplug connector at B11/19
- Connect Adapter Cable to wiring harness
- Switch on ignition
- Check Voltage reading between Pin 1 and Pin 2 of wiring harness connector at B11/19 using Digital Multimeter

The specified value must be between 4.75V and 5.25V

If the value is Not OK, check the wiring harness between components B11/19 to control unit N3/35.
If the value is OK, skip to step three.

3. Check resistance of component B11/19

Check Resistance:

- Switch off ignition
- Unplug connector at B11/19
- Connect Adapter Cable to component B11/19
- Check resistance (Ω) between Pin 1 and Pin 2 of B11/19 using Digital Multimeter

Specified Values:

Temperature	Resistance in Ω
20°C	3117Ω
60°C	628Ω
90°C	235Ω
120°C	101Ω

If the actual value is OK, check the wiring harness and connectors for loose contact pins and corrosion.

If the actual value is Not OK, replace component B11/19.

In case of additional questions, please contact us using the contact form on StarTekInfo.

https://www.startekinfo.com/help/contact