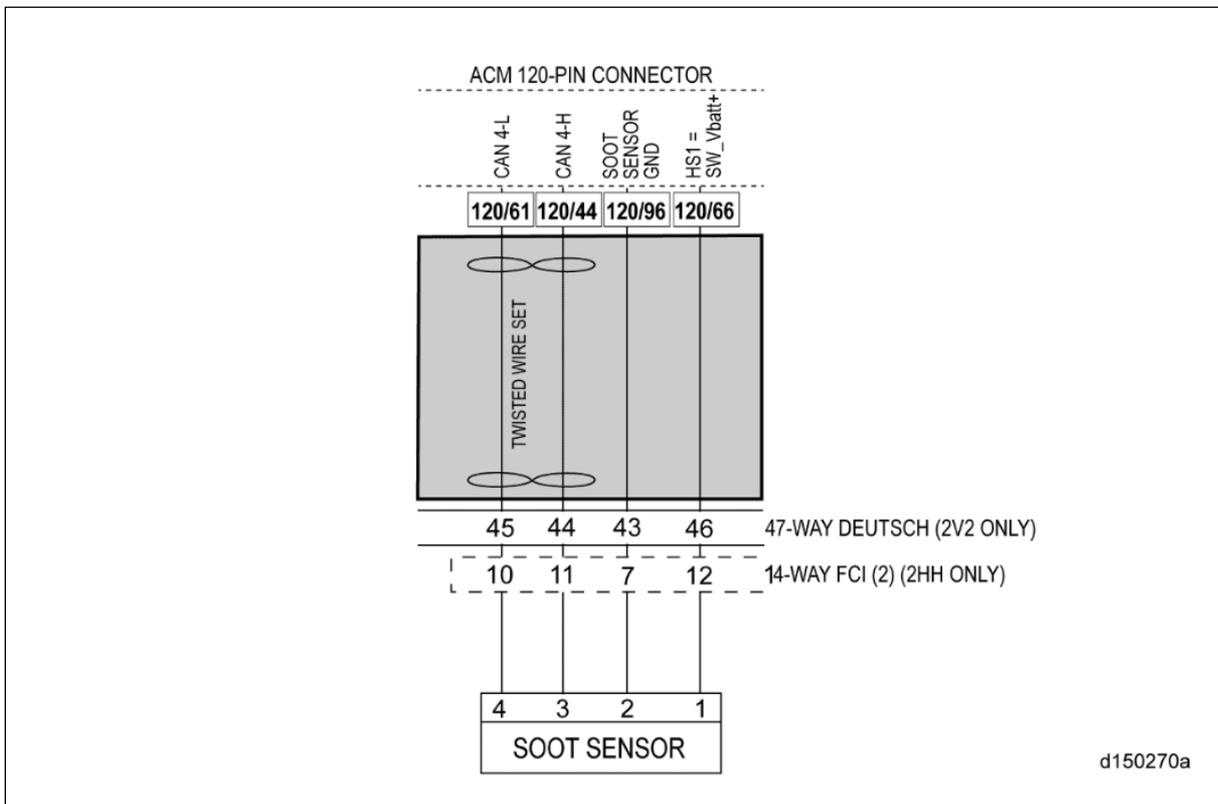
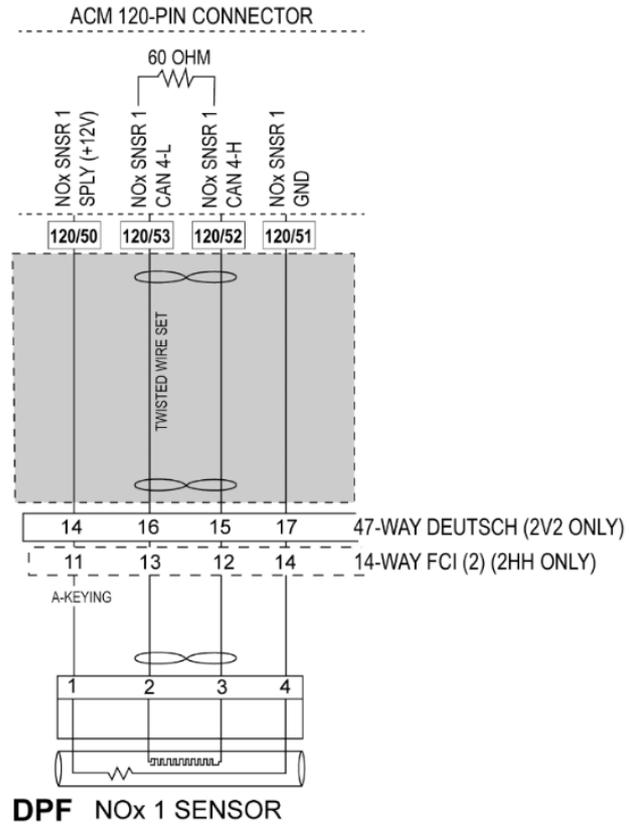


204.1 SPN 1669/FMI 9 - GHG17

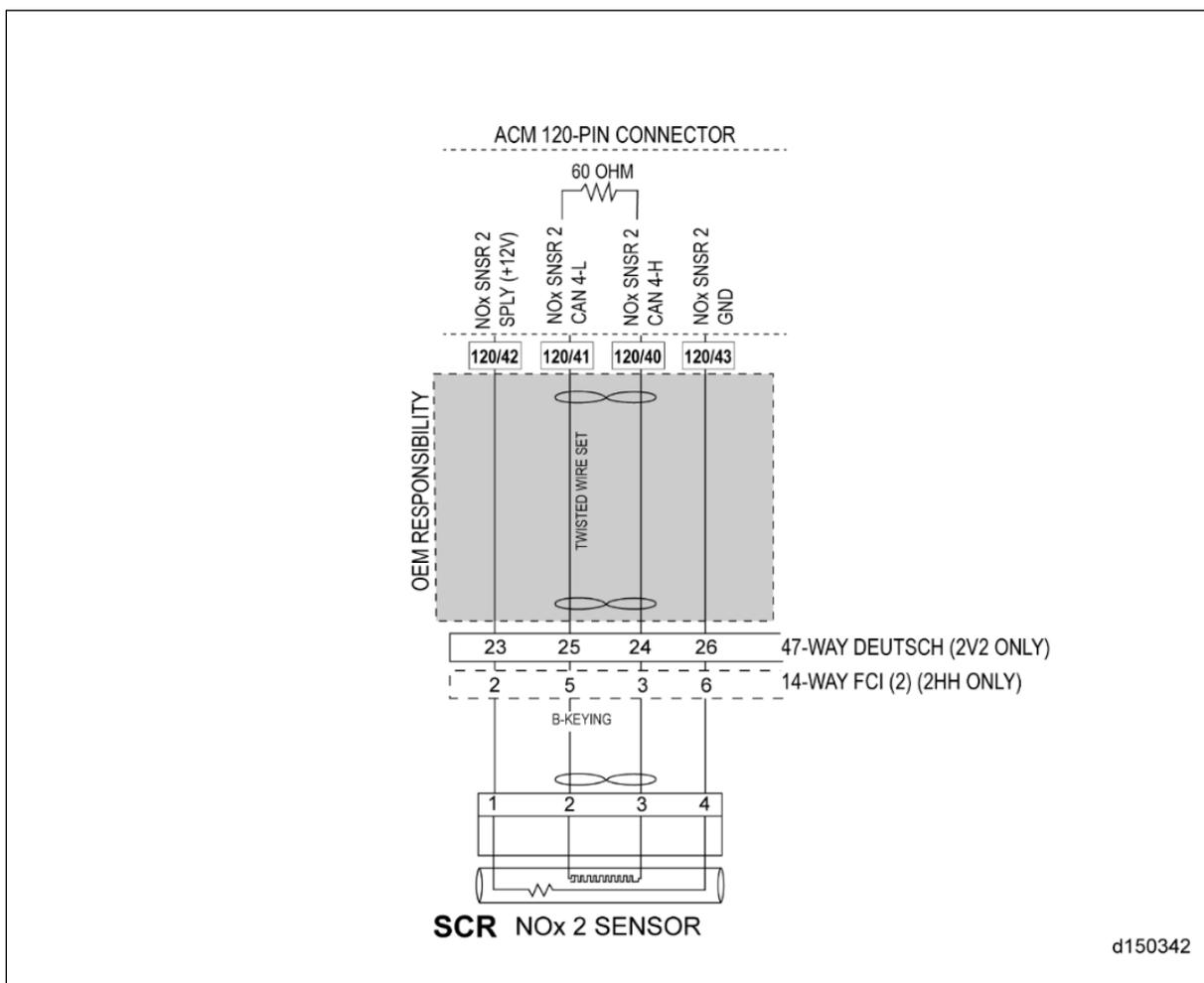
SPN 1669/FMI 9	
Description	ACM PT-CAN 4 High Short to Ground or CAN 4 Low Short to Power
Monitored Parameter	CAN Communication
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	Two Seconds
Dash Lamps	MIL, CEL
Engine Reaction	None
Verification	Ignition Cycle



d150270a



d150343



Check as follows:

1. Are there any battery voltage faults (SPN 168/FMI any)?
 - 1.a Yes; troubleshoot battery voltage faults first.
 - 1.b No; [Go to step 2.](#)
2. Has the Aftertreatment Control Module (ACM), Motor Control Module (MCM), or Common Powertrain Controller (CPC) been recently programmed?
 - 2.a Yes; clear the fault codes. If faults do not become active, release the vehicle. If faults become active, [Go to step 3.](#)
 - 2.b No; [Go to step 3.](#)
3. Is the aftertreatment system a 1-BOX™ configuration?
 - 3.a Yes; [Go to step 4.](#)
 - 3.b No; for a Two-Box option, [Go to step 6.](#)
4. Turn the ignition OFF and disconnect the ACM 120-pin connector.
5. Measure the resistance between pins 40 and 41 on the ACM connector, component side. Is the resistance between 55 and 65 ohms?
 - 5.a Yes; replace the aftertreatment harness.
 - 5.b No; replace the ACM.
6. Turn ignition OFF and wait five minutes before proceeding.
7. Disconnect the inlet NOx sensor four-way electrical harness connector.

8. Check the resistance between pins 1 and 2 of the inlet NOx sensor electrical connector, aftertreatment harness side. Is the resistance greater than 10k ohms?
 - 8.a Yes; [Go to step 9.](#)
 - 8.b No; repair or replace the harness as necessary.
9. Check the resistance between pins 3 and 4 of the inlet NOx sensor, harness side. Is the resistance greater than 10k ohms?
 - 9.a Yes; [Go to step 10.](#)
 - 9.b No; repair or replace the harness as necessary.
10. Disconnect the outlet NOx sensor four-way electrical harness connector.
11. Check the resistance between pins 1 and 2 of the outlet NOx sensor electrical connector, aftertreatment harness side. Is the resistance greater than 10k ohms?
 - 11.a Yes; [Go to step 12.](#)
 - 11.b No; repair or replace the harness as necessary.
12. Check the resistance between pins 3 and 4 of the outlet NOx sensor electrical connector, aftertreatment harness side. Is the resistance greater than 10k ohms?
 - 12.a Yes; [Go to step 13.](#)
 - 12.b No; repair or replace the harness as necessary.
13. Disconnect the soot sensor four-way electrical harness connector.
14. Check the resistance between pins 2 and 3 of the soot sensor electrical connector, aftertreatment harness side. Is the resistance greater than 10k ohms?
 - 14.a Yes; [Go to step 15.](#)
 - 14.b No; repair or replace the harness as necessary.
15. Check the resistance between pins 1 and 4 of the soot sensor electrical connector, aftertreatment harness side. Is the resistance greater than 10k ohms?
 - 15.a Yes; [Go to step 16.](#)
 - 15.b No; repair or replace the harness as necessary.
16. Disconnect the ACM 120-pin connector.
17. Measure the resistance between pins 40 and 41 on the ACM connector, component side. Is the resistance between 55 and 65 ohms?
 - 17.a Yes; replace the aftertreatment harness.
 - 17.b No; replace the ACM.