Service Information Bulletin

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2 EPA10/GHG14 Aftertreatment Device Sensor Locations

The Aftertreatment Control Module (ACM) reads or controls the signals for the following sensors:

- Diesel Oxidation Catalyst (DOC) Inlet Temperature Sensor (Located on the Aftertreatment Device).
- Diesel Oxidation Catalyst (DOC) Outlet Temperature Sensor (Located on the Aftertreatment Device).
- Diesel Particulate Filter (DPF) Outlet Temperature Sensor (Located on the Aftertreatment Device).
- Diesel Particulate Filter (DPF) Inlet Pressure Sensor (Located in the Diesel Particulate Filter Sensor Box).
- Diesel Particulate Filter (DPF) Outlet Pressure Sensor (Located in the Diesel Particulate Filter Sensor Box).
- Selective Catalytic Reduction (SCR Catalyst) Inlet Temperature Sensor (Located in the exhaust flow near the Selective Catalytic Reduction).
- Selective Catalyst Reduction (SCR) Outlet Temperature Sensor (Located in the exhaust flow near the Selective Catalytic Reduction).
- Selective Catalytic Reduction (SCR Catalyst) Inlet NOx Sensor (Located in the Diesel Particulate Filter Sensor Box).
- Selective Catalytic Reduction (SCR Catalyst) Outlet NOx Sensor (Located in the Selective Catalytic Reduction Sensor Box).
- Diesel Exhaust Fluid (DEF) Temperature Sensor (Located in the Diesel Exhaust Fluid Tank).
- Diesel Exhaust Fluid (DEF) Level Sensor (Located in the Diesel Exhaust Fluid Tank).
- Diesel Exhaust Fluid (DEF) Temperature Sensor (Located on the Diesel Exhaust Fluid Metering Unit).
- Diesel Exhaust Fluid (DEF) Pressure Sensor (Located on the Diesel Exhaust Fluid Metering Unit).
- Compressed Air Pressure Sensor (Located on the Diesel Exhaust Fluid Metering Unit).
- Diesel Exhaust Fluid (DEF) Injector (Located on the Diesel Exhaust Fluid Metering Unit). The Aftertreatment Control Module controls the Diesel Exhaust Fluid Injector.
- Diffuser Heater (Located on the Diesel Exhaust Fluid Metering Unit). The Aftertreatment Control Module controls the Diffuser Heater.
- Coolant Valve (Located on the Diesel Exhaust Fluid Tank or remote-mounted depending on Diesel Exhaust Fluid Tank size). The Aftertreatment Control Module controls the Coolant Valve.
- Diesel Exhaust Fluid Line Heaters (4) (Located in the Diesel Exhaust Fluid Lines mounted to the vehicle's frame rail).

1-BOX™ Sensor Locations
1. Diesel Oxidation Catalyst Outlet Temperature Sensor
2. Diesel Oxidation Catalyst Inlet Pressure Sensor Elbow
3. Diesel Oxidation Catalyst Inlet Temperature Sensor
4. Front Heat Shield
5. Diesel Exhaust Fluid Nozzle
6. Exhaust Outlet
7. Diesel Exhaust Fluid Metering Unit
8. Sensor Box including Pressure Sensors
9. Exhaust Inlet
10. Selective Catalytic Reduction (SCR Catalyst) Outlet Temperature Sensor

Figure 1. EPA10 1-BOX™ Configuration

1. Diesel Oxidation Catalyst Outlet Temperature Sensor
2. Diesel Oxidation Catalyst Inlet Pressure Sensor Tube
3. Diesel Oxidation Catalyst Inlet Temperature Sensor
4. Front Heat Shield
5. Diesel Exhaust Fluid Nozzle
6. Exhaust Outlet
7. Diesel Exhaust Fluid Metering Unit
8. Exhaust Inlet
9. Selective Catalytic Reduction (SCR Catalyst) Inlet Temperature Sensor
10. Selective Catalytic Reduction (SCR Catalyst) Inlet NOx Sensors
11. Selective Catalytic Reduction (SCR Catalyst) Outlet NOx Sensor
12. Selective Catalytic Reduction (SCR Catalyst) Inlet NOx Sensor
13. 14-Pin Connectors
14. Diesel Particulate Filter Outlet Pressure Sensor Elbow
15. Selective Catalytic Reduction (SCR Catalyst) Inlet Temperature Sensor
16. Selective Catalytic Reduction (SCR Catalyst) Inlet and Outlet NOx Sensors (microprocessor mounted)
17. Diesel Particulate Filter Outlet Pressure Sensor
18. Diesel Oxidation Catalyst Inlet Pressure Sensor
19. Diesel Particulate Filter Temperature Sensor

Figure 2. 2012 1-BOX™ Configuration

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1. Diesel Oxidation Catalyst Outlet Temperature Sensor
2. Diesel Oxidation Catalyst Inlet Pressure Sensor Tube
3. Diesel Oxidation Catalyst Inlet Temperature Sensor
4. Front Heat Shield
5. Diesel Exhaust Fluid Dosing Unit
6. Exhaust Outlet
7. Exhaust Inlet
8. Selective Catalytic Reduction (SCR Catalyst) Outlet Temperature Sensor
9. Selective Catalytic Reduction (SCR Catalyst) Outlet NOx Sensor
10. Selective Catalytic Reduction (SCR Catalyst) Inlet Temperature Sensor
11. Selective Catalytic Reduction (SCR Catalyst) Inlet and Outlet NOx Sensors (microprocessor mounted)
12. Diesel Particulate Filter Outlet Pressure Sensor Tube
13. Selective Catalytic Reduction (SCR Catalyst) Inlet Temperature Sensor
14. Selective Catalytic Reduction (SCR Catalyst) Inlet NOx Sensors
15. 47-Pin Connector Harness
16. Diesel Particulate Filter Outlet Pressure Sensor
17. Diesel Oxidation Catalyst Inlet Pressure Sensor
18. Sensor bridge

Figure 3. GHG14 1-BOX™ Configuration

Diesel Oxidation Catalyst, Diesel Particulate Filter, and Selective Catalytic Reduction (SCR Catalyst) Mounted Vertically

Sensor locations on the Two-Box configuration are shown below:
1. Diesel Exhaust Fluid Metering Unit
2. Diesel Exhaust Fluid Nozzle
3. Selective Catalytic Reduction (SCR Catalyst) Outlet Temperature Sensor
4. Selective Catalytic Reduction (SCR Catalyst) Inlet Temperature Sensor
5. Diesel Oxidation Catalyst Inlet Temperature Sensor
6. Diesel Oxidation Catalyst Inlet Pressure Sensor
7. Diesel Particulate Filter Inlet Temperature Sensor
8. Diesel Particulate Filter Outlet Pressure Sensor
9. Diesel Particulate Filter Outlet Temperature Sensor
10. Selective Catalytic Reduction (SCR Catalyst) Outlet NOx Sensor
11. Selective Catalytic Reduction (SCR Catalyst) Inlet NOx Sensor

Figure 4. 2V2 Two-Box Configuration
1. Diesel Exhaust Fluid Doser Unit
2. Selective Catalytic Reduction (SCR Catalyst) Outlet Temperature Sensor
3. Selective Catalytic Reduction (SCR Catalyst) Inlet Temperature Sensor
4. Diesel Oxidation Catalyst Inlet Temperature Sensor
5. Diesel Oxidation Catalyst Inlet Pressure Sensor
6. Diesel Particulate Filter Inlet Temperature Sensor
7. Diesel Particulate Filter Outlet Pressure Sensor
8. Diesel Particulate Filter Outlet Temperature Sensor
9. Selective Catalytic Reduction (SCR Catalyst) Outlet NOx Sensor (microprocessor mounted)
10. Selective Catalytic Reduction (SCR Catalyst) Inlet NOx Sensor (microprocessor mounted)
11. 47 Pin Connector Harness

Figure 5. GHG14 2V2 Two-Box Configuration

Diesel Oxidation Catalyst, Diesel Particulate Filter Mounted Horizontally, Selective Catalytic Reduction (SCR Catalyst) Mounted Vertically

Sensor locations on the Two-Box configuration are shown below:
1. Diesel Particulate Filter Inlet Temperature Sensor
2. Diesel Oxidation Catalyst Inlet Temperature Sensor
3. Diesel Oxidation Catalyst Inlet Pressure Sensor
4. Diesel Particulate Filter Sensor Box
5. Diesel Particulate Filter Outlet Pressure Sensor
6. Diesel Particulate Filter Outlet Temperature Sensor
7. Selective Catalytic Reduction (SCR Catalyst) Outlet NOx Sensor (microprocessor mounted)
8. Selective Catalytic Reduction (SCR Catalyst) Inlet Temperature Sensor Port
9. Selective Catalytic Reduction (SCR Catalyst) Outlet Temperature Sensor Port
10. Selective Catalytic Reduction (SCR Catalyst) Sensor Box
11. Selective Catalytic Reduction (SCR Catalyst) Outlet NOx Sensor (microprocessor mounted)

Figure 6. 2HV Two-Box Configuration
1. Diesel Particulate Filter Inlet Temperature Sensor
2. Diesel Oxidation Catalyst Inlet Temperature Sensor
3. Diesel Oxidation Catalyst Inlet Pressure Sensor
4. Diesel Particulate Filter Sensor Box
5. Diesel Particulate Filter Outlet Pressure Sensor
6. Diesel Particulate Filter Outlet Temperature Sensor
7. Selective Catalytic Reduction (SCR Catalyst) Outlet NOx Sensor (microprocessor mounted)
8. Selective Catalytic Reduction (SCR Catalyst) Inlet Temperature Sensor Port
9. Selective Catalytic Reduction (SCR Catalyst) Outlet Temperature Sensor Port
10. Selective Catalytic Reduction (SCR Catalyst) Sensor Box
11. Selective Catalytic Reduction (SCR Catalyst) Outlet NOx Sensor (microprocessor mounted)

Figure 7. GHG14 2HV Two-Box Configuration