

1 5 07-15



Service Information Bulletin

| SUBJECT | DATE |
|---|----------|
| SPN 1590(CPC)(GHG14) and SPN 1590 (CPC)(EPA07;EPA10) | May 2015 |

Additions, Revisions, or Updates

| Publication Number / Title | Platform | Section Title | Change |
|--------------------------------------|-------------|--------------------------------|---|
| DDC-SVC-MAN-0084 DDC-SVC-MAN-S084 | DD Platform | SPN 1590/ FMI 9- GHG14 | The diagnostic procedures have been separated and new information has been added to GHG14 for the Detroit Assurance option. |
| | | SPN 1590/ FMI 9- EPA07 - EPA10 | |

DiagnosticLink users: Please update the troubleshooting guides in DiagnosticLink with this newest version. To update the tool troubleshooting guide, open DiagnosticLink and from the Help - Troubleshooting Guides menu, select the appropriate troubleshooting manual, then click Update.



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2 SPN 1590/FMI 9 - GHG14

Adaptive Cruise Control Message Not Received

Table 1.

| SPN 1590/FMI 9 | |
|-----------------------------|--|
| Description | Adaptive Cruise Control Message Not Received |
| Monitored Parameter | PGR034 adaptive cruise control enable |
| Typical Enabling Conditions | Key is on, CPC is online, CAN network is online, Adaptive Cruise Control System is equipped, 10 seconds after the engine has been cranked. |
| Monitor Sequence | None |
| Execution Frequency | Continuous when enabling conditions met |
| Typical Duration | 2 seconds |
| Dash Lamps | None |
| Engine Reaction | None |
| Verification | Engine running for 1 minute |

1. Connect DiagnosticLink[®].
2. Turn the ignition ON (key ON, engine OFF).
3. Verify that the vehicle is equipped with an adaptive cruise system. Is the vehicle equipped with adaptive cruise?
 - a. Yes; Go to step 5.
 - b. No; Go to step 4.
4. Verify that the "adaptive cruise control enable" parameter PGR043 is disabled; refer to the Application and Installation (A&I) manual. Is parameter PGR043 disabled?
 - a. Yes; replace the Common Powertrain Controller (CPC). Verify repair.
 - b. No; change the "adaptive cruise control enable" parameter PGR043 to disabled. Verify repair.
5. For vehicles equipped with Detroit Assurance, parameter PGR043 should be set to 0 (zero) disable. Is parameter PGR043 set to disable?
 - a. Yes; replace the CPC. Verify repair.
 - b. No; change parameter PGR043 to disable. Verify repair.

Parameters Engine: DDEC13-DD15 Transmission: DT12-DT12 DA DiagnosticLink

Green House Gas Emissions Group Coding Strings Idle and PTO Shutdown Inputs and Outputs Optimized Idle Progressive Shift PTO Speed Limiter Transfer Accumulators

All Parameters Compare Parameters Compare Server Data Cruise Control DPF History Engine Brake Config Engine Protection Fan Fleet Management Fuel Economy

| Parameter | Value | Units | M... | Maxi... | Description |
|----------------------------------|---------|-------|------|---------|--|
| PGR030 Engine Configuration | | | | | |
| PGR031 Vehicle Parameters III | | | | | |
| PGR032 Coolant Level Sensor | | | | | |
| PGR035 Digital Outputs | | | | | |
| PGR037 Fault Management | | | | | |
| PGR038 Vehicle Speed Governor | | | | | |
| PGR039 Vehicle Mass | | | | | |
| PGR040 Anti Tampering | | | | | |
| PGR041 Component ID | | | | | |
| PGR042 Dss | | | | | |
| PGR043 Acc | | | | | |
| ACC accept Resume Time | 30 | s | 0 | 255 | (043/001) Time span after reception of CCVS Pause command from Wabco Ac... |
| Adaptive Cruise Control Enable | disable | | | | (043/002) vehicle equipped with ACC system |
| Fast ACC Gov Engine brake mode | none | | | | (043/003) New ACC Gov Engine brake mode |
| Manual Cruise Enable | enable | | | | (043/004) Manual Cruise Enable(via double toggle) after Acc system failure |
| ACC1 Tx Mode Selection | disable | | | | (043/005) CPC to send ACC1 message to support legacy products |
| PGR044 SynGov | | | | | |
| PGR046 Diesel Particulate Filter | | | | | |
| PGR047 Ag | | | | | |
| PGR048 Ptconf | | | | | |
| PGR049 Reserved | | | | | |
| PGR050 HDMS Fan | | | | | |
| PGR051 Idle Volume | | | | | |
| PGR053 Soft Cruise | | | | | |

Parameters were successfully read from the device.

Send... Information

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Figure 1. GHG14 Adaptive Cruise Control

The screenshot shows the DiagnosticLink interface for a vehicle with engine DDEC13-DD15 and transmission DT12-DT12 DA. The 'Parameters' tab is active, displaying a list of parameters. The 'Adaptive Cruise Control Enable' parameter is selected, and its dropdown menu is open, showing three options: '0 disable', '1 Eaton Vorad Adaptive Cruise Device', and '2 Meritor Wabco Adaptive Cruise Device'. An arrow points to the dropdown menu.

| Parameter | Value | Units | M... | Maxi... | Description |
|----------------------------------|-------|-------|------|---------|--|
| PGR030 Engine Configuration | | | | | |
| PGR031 Vehicle Parameters III | | | | | |
| PGR032 Coolant Level Sensor | | | | | |
| PGR035 Digital Outputs | | | | | |
| PGR037 Fault Management | | | | | |
| PGR038 Vehicle Speed Governor | | | | | |
| PGR039 Vehicle Mass | | | | | |
| PGR040 Anti Tampering | | | | | |
| PGR041 Component ID | | | | | |
| PGR042 Dss | | | | | |
| PGR043 Acc | | | | | |
| ACC accept Resume Time | 50 | s | 0 | 255 | (043/001) time span after reception of CCVS Pause command from Wabco Ac... |
| Adaptive Cruise Control Enable | 0 | disa | | | (043/002) vehicle equipped with ACC system |
| Fast ACC Gov Engine brake mode | 0 | disa | | | (03) New ACC Gov Engine brake mode |
| Manual Cruise Enable | | | | | (04) Manual Cruise Enable(via double toggle) after Acc system failure |
| ACC1 Tx Mode Selection | | | | | (05) PC to send ACC1 message to support legacy products |
| PGR044 SynGov | | | | | |
| PGR046 Diesel Particulate Filter | | | | | |
| PGR047 Ag | | | | | |
| PGR048 Ptconf | | | | | |
| PGR049 Reserved | | | | | |
| PGR050 HDMS Fan | | | | | |
| PGR051 Idle Volume | | | | | |
| PGR053 Soft Cruise | | | | | |

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Figure 2. GHG14 Adaptive Cruise Control Options

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Adaptive Cruise Control Message Not Received

Table 2.

| SPN 1590/FMI 9 | |
|-----------------------------|--|
| Description | Adaptive Cruise Control Message Not Received |
| Monitored Parameter | PGR034 adaptive cruise control enable |
| Typical Enabling Conditions | Key is on, CPC is online, CAN network is online, Adaptive Cruise Control System is equipped, 10 seconds after the engine has been cranked. |
| Monitor Sequence | None |
| Execution Frequency | Continuous when enabling conditions met |
| Typical Duration | 2 seconds |
| Dash Lamps | None |
| Engine Reaction | None |
| Verification | Engine running for 1 minute |

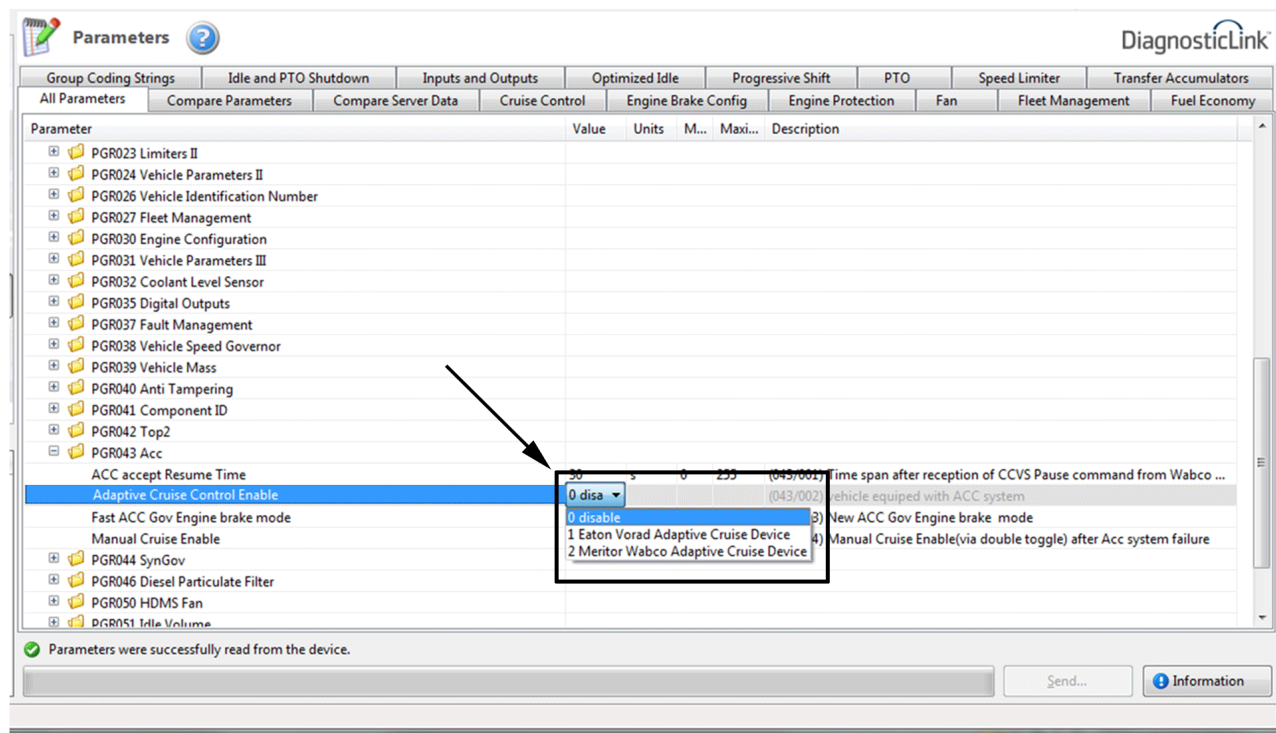
1. Connect DiagnosticLink[®] Standard.
2. Turn the ignition ON (key ON, engine OFF).
3. Verify that the vehicle is equipped with an adaptive cruise system. Is the vehicle equipped with adaptive cruise?
 - a. Yes; Go to step 5.
 - b. No; Go to step 4.
4. Verify that the "adaptive cruise control enable" parameter PGR043 is disabled; refer to the Application and Installation (A&I) manual. Is parameter PGR043 disabled?
 - a. Yes; replace the Common Powertrain Controller (CPC). Verify repair.
 - b. No; change the "adaptive cruise control enable" parameter PGR043 to disabled. Verify repair.
5. Verify that the "adaptive cruise control enable" parameter PGR043 is enabled; refer to the Application and Installation (A&I) manual. Is parameter PGR043 enabled with the correct Adaptive Cruise Control System?
 - a. Yes; refer to OEM literature to diagnose the concern. Verify repair.
 - b. No; change parameter PGR043 to enabled. Verify repair.

The screenshot shows the DiagnosticLink software interface. At the top, there are navigation tabs for various vehicle systems: Group Coding Strings, Idle and PTO Shutdown, Inputs and Outputs, Optimized Idle, Progressive Shift, PTO, Speed Limiter, and Transfer Accumulators. Below these are sub-tabs for All Parameters, Compare Parameters, Compare Server Data, Cruise Control, Engine Brake Config, Engine Protection, Fan, Fleet Management, and Fuel Economy. The main area is a table of parameters. The 'Adaptive Cruise Control Enable' parameter is selected and highlighted in blue. Below the table, a green checkmark indicates that parameters were successfully read from the device. At the bottom right, there are 'Send...' and 'Information' buttons.

| Parameter | Value | Units | M... | Maxi... | Description |
|--------------------------------|---------|-------|------|---------|--|
| ACC accept Resume Time | 30 | s | 0 | 255 | (043/001) Time span after reception of CCVS Pause command from Wabco ... |
| Adaptive Cruise Control Enable | disable | | | | (043/002) vehicle equiped with ACC system |
| Fast ACC Gov Engine brake mode | none | | | | (043/003) New ACC Gov Engine brake mode |
| Manual Cruise Enable | enable | | | | (043/004) Manual Cruise Enable(via double toggle) after Acc system failure |

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Figure 3. EPA10 Adaptive Cruise Control Enable



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Figure 4. EPA10 Adaptive Cruise Control Enable Options