Thank you for choosing PPC® Diagnostic System! PPC® Diagnostic System is a diagnostic tool for Volvo cars. This tool can both read and erase all diagnostic trouble codes and it handles all control units in the car. It can also reset the service indicator.

The tool is convenient and its functions are easy to learn. Just connect it to the diagnostic outlet of the car and make a diagnosis. We hope that PPC® Diagnostic System will be very useful for you!

Best regards
BSR Svenska AB
The manual
The manual is easy to read and it’s illustrated. It contains all the information that’s needed to be able to use PPC® Diagnostic System. Please, read the manual before operating the unit.

The manual describes:

- PPC® Diagnostic System and enclosed equipment
- how to connect PPC Diagnostic System to the car
- how to read DTCs
- how to erase DTCs
- how to reset the service indicator
- what all DTCs mean

DTCs
The last part of the manual consists of DTCs and their definitions. A complete list with all definitions to all DTCs is available on the home page. On the home page it’s also possible to search for a specific DTC or control unit.

[DTC= Diagnostic Trouble Code]
**Product information**

**PPC® Diagnostic System**
PPC® Diagnostic System can read and erase all DTCs from all control units in a Volvo car - not only the engine control unit (ECU) but all units. In all it handles nearly 40 different control units and more than 8000 diagnostic trouble codes. The DTCs are showed in PPC’s display and you can find the definitions of the DTCs in this manual and on our home page http://www.ppc-diagnostic.com.

PPC® Diagnostic System can also reset the service indicator.

Works with all Volvo cars from **2001 and forward** in the **40N/50/60/70/80/90 series**. Doesn’t work with the old S40/V40 (1996-2004), old C70 (1998-2005) or new S80 (2007).

**Enclosed equipment**
PPC® Diagnostic System always contains a PPC® unit and OBDII cable.

**Storage**
PPC® Diagnostic System must not be exposed to water, moisture or condensation. Store it in a place free from dust and vibrations. Do not store it near strong magnetic fields.
Management

Enter and Menu
PPC® has got two buttons: Enter and Menu. With these two buttons you can easily navigate in the menu and choose the wanted function.

Connection of the OBDII cable
1. Connect the OBDII cable to both PPC® and the car’s diagnostic outlet.

2. Then turn ignition on.
Location of the OBDII outlet
The pictures below shows where the car’s OBDII outlet (diagnostic outlet) is located on different Volvo models. To this outlet you connect the enclosed OBDII cable and PPC®.

Note that PPC® must not be connected to the car while driving. Disconnect PPC® from the car when you have finished the diagnosis.
Read DTC
• Connect PPC® Diagnostic System to the car and turn ignition on.
• When "Read DTC?" is showed, press Enter.
• Choose year model with the menu button (1999-2004 or 2005 and forw.), press Enter.

Now PPC® automatically starts searching through all control units of the car, one at a time. When a DTC is found it is showed in the display. Press Enter to continue the searching.

Erase DTC
• Connect PPC® Diagnostic System to the car and turn ignition on.
• Browse to ”Erase DTC?” with the menu button, then press Enter.
• Choose year model with the menu button (1999-2004 or 2005 and forw.), press Enter.
• The message ”Erasing DTC...” shows that PPC® is erasing the DTCs of the car.

PPC® erases a limited amount of DTCs at a time. By large amounts of DTCs, it might be necessary to repeat the erasing procedure to get all DTCs erased.

Reset SRL
• Connect PPC® Diagnostic System to the car and turn ignition on.
• Browse to ”Reset SRL?” with the menu button, then press Enter.
• Choose year model with the menu button (1999-2004 or 2005 and forw.), press Enter.
• The message ”SRL Reset...” shows that the service indicator is reset.

"SRL" means Service Reminder Lamp, also known as Service Reminder Indicator, SRI.
Handling diagram

The diagram below shows how to read DTC, erase DTC and reset the service indicator. Handling is very easy: Menu button changes function in the display, and Enter button selects the wanted function.

Enter = press Enter
Menu = press Menu

Read DTC
- Read DTC?
  - Enter
  - Volvo 99 to 04?
    - Enter
    - Volvo 05 f or w. ?
      - Menu
      - Different control units and DTCs are showed.

Erase DTC
- Erase DTC?
  - Enter
  - Volvo 99 to 04?
    - Enter
    - Volvo 05 f or w. ?
      - Menu
      - Erasing DTC...

Reset service indicator
- Reset SRL?
  - Enter
  - Volvo 99 to 04?
    - Enter
    - Volvo 05 f or w. ?
      - Menu
      - SRL Reset...
Home page

On our home page http://www.ppc-diagnostic.com you’ll find information about PPC® Diagnostic System. Here are some examples of the contents on the home page:

**Search DTC**
When you’ve found out what trouble codes the car has got, you also want to know what the codes mean. By using the search function you’ll quickly get all the explanations to the different DTCs. It’s possible to search on both DTCs and control units.

**FAQ**
The FAQ (Frequently Asked Questions) contains the most common questions and answers. If you have a question you’ll probably find the answer on the FAQ. The FAQ is continuously updated as we get new questions. A good tip is to have a look at the FAQ before you contact your PPC dealer.

**Order**
You can order PPC® Diagnostic System via a simple order form on the home page.

**Manual**
This manual is available also as pdf on the home page.

**Support**
Where should I go to get support? If you have questions or need some help with the management of PPC® Diagnostic System you can contact your PPC dealer by completing a question form on the home page. Fill in your name and e-mail and write your question. Then press ”Send”. Your question is top priority and will be answered as soon as possible. The answer is sent to the e-mail that you entered.

Before contacting your PPC dealer by completing the question form on the home page we recommend that you first search for information in the FAQ on the home page.

**Important!**
The PPC dealer will not answer questions concerning the car, car repair, (dis)assembly, spare parts, mechanics etc. If you have questions concerning this you are requested to apply for information at your branded garage or in a shop manual.
## Glossary

### Control units

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<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tr>
<td>ABS</td>
<td>Anti Block System</td>
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<tr>
<td>ADM</td>
<td>Additive Dosing Module</td>
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<tr>
<td>AEM</td>
<td>Accessory Electronic Module</td>
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<tr>
<td>AFM</td>
<td>AM FM Module</td>
</tr>
<tr>
<td>ATM</td>
<td>Antenna Module</td>
</tr>
<tr>
<td>AUD</td>
<td>Audio Module</td>
</tr>
<tr>
<td>AUM</td>
<td>Audio Module</td>
</tr>
<tr>
<td>BCM</td>
<td>Break Control Module</td>
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<tr>
<td>CCM</td>
<td>Climate Control Module</td>
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<tr>
<td>CEM</td>
<td>Central Electronic Module</td>
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<tr>
<td>CPM</td>
<td>Combustion Preheater Module</td>
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<tr>
<td>DDM</td>
<td>Driver Door Module</td>
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<tr>
<td>DEM</td>
<td>Differential Electronic Module</td>
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<td>DIM</td>
<td>Driver Information Module</td>
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<td>ECM</td>
<td>Engine Control Module</td>
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<td>EPS</td>
<td>Electrical Power Steering Module</td>
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<td>GPS</td>
<td>Global Positioning System Module</td>
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<tr>
<td>ICM</td>
<td>Infotainment Control Module</td>
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<td>KVM</td>
<td>Keyless Vehicle Module</td>
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<td>MMM</td>
<td>Multi Media Module</td>
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<td>MPM</td>
<td>Mediaplayer</td>
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<tr>
<td>MP1</td>
<td>Media Player 1 [Minidisc]</td>
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<tr>
<td>MP2</td>
<td>Media Player 2 [CD]</td>
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<td>PAM</td>
<td>Parking Assistance Module</td>
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<tr>
<td>PDM</td>
<td>Passenger Door Module</td>
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<td>PHM</td>
<td>Phone Module</td>
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<tr>
<td>PSM</td>
<td>Power Seat Module</td>
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<tr>
<td>REM</td>
<td>Rear Electronic Module</td>
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<td>RTI</td>
<td>Road Traffic Information</td>
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<tr>
<td>SAS</td>
<td>Steering Angle Sensor</td>
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<td>SRS</td>
<td>Supplementary Restraint System</td>
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<tr>
<td>SUB</td>
<td>Subwoofer</td>
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<td>SUM</td>
<td>Suspension Module</td>
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<td>SWM</td>
<td>Steering Wheel Module</td>
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<tr>
<td>TCM</td>
<td>Transmission Control Module</td>
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<td>TMC</td>
<td>Traffic Channel Module</td>
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<tr>
<td>TRM</td>
<td>Trailer Module</td>
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<tr>
<td>UEM</td>
<td>Upper Electronic Module</td>
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### Shortenings

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tr>
<td>A/C</td>
<td>Air Conditioning</td>
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<td>ACM</td>
<td>Alternator Control Module</td>
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<tr>
<td>AP</td>
<td>Accelerator Pedal</td>
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<td>AQS</td>
<td>Air Quality Sensor</td>
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<tr>
<td>BSC</td>
<td>Body Cluster Stability Sensor</td>
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<tr>
<td>CAC</td>
<td>Charge Air Cooler</td>
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<tr>
<td>CMP</td>
<td>Camshaft Position Sensor</td>
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<tr>
<td>CP</td>
<td>Canister Purge</td>
</tr>
<tr>
<td>CPM</td>
<td>Combustion Preheater Module</td>
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<tr>
<td>DSTC</td>
<td>Dynamic Stability Traction Control</td>
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<tr>
<td>DTC</td>
<td>Diagnostic Trouble Code</td>
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<tr>
<td>ECT</td>
<td>Engine Coolant Temperature</td>
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<tr>
<td>EGR</td>
<td>Exhaust Gas Recirculation</td>
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<td>ETM</td>
<td>Electronic Throttle Module</td>
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<td>EVAP</td>
<td>Evaporative Emission System</td>
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<tr>
<td>FC</td>
<td>Engine Cooling Fan</td>
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<tr>
<td>FP</td>
<td>Fuel Pump</td>
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<td>GDL</td>
<td>Gas Discharge Lamp Module</td>
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<td>GSM</td>
<td>Gear Selector Module</td>
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<td>HO2S</td>
<td>Heated Oxygen Sensor</td>
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<tr>
<td>IAT</td>
<td>Intake Air Temperature</td>
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<td>KD</td>
<td>Kick Down</td>
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<td>KS</td>
<td>Knock Sensor</td>
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<td>LCM</td>
<td>Left Camera Module</td>
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<tr>
<td>LSM</td>
<td>Light Switch Module</td>
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<tr>
<td>MAF</td>
<td>Mass Air Flow</td>
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<td>MAP</td>
<td>Manifold Absolute Pressure</td>
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<td>MIL</td>
<td>Malfunction Indicator Lamp</td>
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<td>OWS</td>
<td>Occupant Weight Sensor</td>
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<td>RCM</td>
<td>Right Camera Module</td>
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<td>RPM</td>
<td>Engine Speed</td>
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<td>RSM</td>
<td>Rain Sensor Module</td>
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<td>SCL</td>
<td>Steering Column Lock Module</td>
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<td>SCM</td>
<td>Siren Control Module</td>
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<tr>
<td>SCU</td>
<td>Start Control Module</td>
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<tr>
<td>SRI</td>
<td>Service Reminder Indicator</td>
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<tr>
<td>SRL</td>
<td>Service Reminder Lamp</td>
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<tr>
<td>SIPS</td>
<td>Side Impact Protection System</td>
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<tr>
<td>TC</td>
<td>Turbo Charger</td>
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<tr>
<td>TWC</td>
<td>Three-way Catalytic Converter</td>
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<tr>
<td>VNT</td>
<td>Variable Nozzle Turbo</td>
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<tr>
<td>VSS</td>
<td>Vehicle Speed Sensor</td>
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<tr>
<td>WMM</td>
<td>Wiper Motor Module</td>
</tr>
</tbody>
</table>
Diagnostic Trouble Codes (DTC)

**Interpret DTCs**

In the remaining part of the manual you’ll find all DTCs from all control units in a Volvo car. However, you will not find all definition variants to each DTC. The manual only presents the all-embracing headline definition (marked red below). This is because of the limited space. A complete list with all definitions for all DTCs is available on the home page.

---

**Example that shows DTC "ECM-2820".**

*Only the all-embracing headline (marked red above) is showed in this manual.*

*To get all explanations (crossed above) see our home page.*
ABS
ABS-0010 Left front wheel sensor
ABS-0011 Left front wheel sensor
ABS-0012 Left front wheel sensor
ABS-0020 Right front wheel sensor
ABS-0021 Right front wheel sensor
ABS-0022 Right front wheel sensor
ABS-0030 Left rear wheel sensor
ABS-0031 Left rear wheel sensor
ABS-0032 Left rear wheel sensor
ABS-0040 Right rear wheel sensor
ABS-0041 Right rear wheel sensor
ABS-0042 Right rear wheel sensor
ABS-0064 Stop lamp switch
ABS-0065 Stop (brake) lamp switch
ABS-0066 Front brake discs. Temp too high
ABS-0070 Pump motor
ABS-0072 Control module
ABS-0074 Battery voltage
ABS-0075 Control module
ABS-0076 Control module
ABS-0077 Battery voltage.
ABS-0080 Control module.
ABS-0090 Control module
ABS-0091 Control module communication
ABS-0092 Control module communication
ABS-0093 Control module communication
ABS-0094 Control module communication
ABS-0095 Control module communication
ABS-0097 Control module
ABS-00A0 Yaw-velocity sensor 1
ABS-00A1 Yaw rate sensor 1 & 2
ABS-00A2 Side acceleration sensor.
ABS-00A3 Lateral acceleration sensor
ABS-00A3 Side acceleration sensor
ABS-00A4 Brake pressure sensor 1
ABS-00A5 Brake pressure sensor 2
ABS-00A6 Brake pressure sensor 1 & 2
ABS-00A7 Power supply sensor
ABS-00B0 Brake amplifier pre-pressure valve
ABS-00B0 Power brake booster pressure build-up valve
ABS-00B1 Pedal pressure sensor
ABS-00B2 Yaw-velocity sensor 2
ABS-00B3 Communication SAS
ABS-00B4 Communication SAS
ABS-00B5 Communication SAS
ABS-00B6 Communication. CAN or SAS
ABS-00C0 Stabilising function
ABS-00C1 Stabilising function
ABS-00C2 Reversing signal
ABS-00C3 Reversing signal
ABS-00C4 Control unit
ABS-00C7 DSTC Factory test

ADM
ADM-0001 Additive dosing module (ADM)
ADM-0002 Level sensor, additive
ADM-0003 Level sensor, additive
ADM-0004 Tank level, additive
ADM-0005 Tank level, additive
ADM-0006 Pump, additive
ADM-0007 Pump, additive
ADM-0008 Pump, additive
ADM-0009 Control module
ADM-000A Vehicle speed
ADM-000B Fuel level
ADM-00D0 Control module
ADM-00E0 Configuration fault
ADM-00E1 Power supply control module

AEM
AEM-1A01 Power supply
AEM-1D01 Control module
AEM-1D02 Control module, software
AEM-1D03 Control module not fully programmed
AEM-1D07 Control module
AEM-1D08 Control module
AEM-1D0A Control module
AEM-4F60 Back-up [reversing] warning system
AEM-4F61 Back-up [reversing] warning system
AEM-4F62 Reversing warning system, buzzer
AEM-4F63 Reversing warning system, buzzer
AEM-5F10 Relay, engine block heater
AEM-5F11 Relay, engine block heater
AEM-5F20 Remote start
AEM-5F22 Remote start
AEM-5F23 Remote start
AEM-6C50 Alarm output P0
AEM-6C51 Alarm output P0
AEM-6C52 Alarm output P1
AEM-6C53 Alarm output P1
AEM-6C54 Alarm output S0
AEM-6C55 Alarm output S0
AEM-6C56 Alarm output S1
AEM-6C57 Alarm output S1
AEM-7A10 Carphone mute signal
AEM-7A11 Carphone mute signal
AEM-7A12 Rheostat signal
AEM-7A14 Speed signal
AEM-7A16 Antenna amplifier
AEM-7A17 Antenna amplifier
AEM-0001 Control module communication
AEM-0003 Control module communication
AEM-0010 Power supply

AFM
AFM-0001 Antenna AM/FM
AFM-0002 Antenna AM/FM
AFM-0003 Antenna AM/FM

ATM
ATM-0001 Antenna module (ATM)
ATM-0002 TMC receiver
ATM-0003 TMC receiver
ATM-0004 GPS unit
ATM-0005 GPS unit
ATM-0006 GPS unit
ATM-0007 GPS unit
<table>
<thead>
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<th>AUD</th>
<th></th>
<th>AUM</th>
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<th>BCM</th>
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<tbody>
<tr>
<td>AUD-0001 Control module</td>
<td></td>
<td>AUM-1000 Memory control Audio HU1205</td>
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<td>BCM-0010 Left front wheel sensor</td>
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<tr>
<td>AUD-0002 Loudspeaker left front</td>
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<td>AUM-2000 CD-servo Audio HU1205</td>
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<td>BCM-0011 Left front wheel sensor</td>
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<td>AUD-0003 Loudspeaker right front</td>
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<td>AUM-2100 CD unit Audio HU1205</td>
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<td>BCM-0012 Left front wheel sensor</td>
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<td>AUD-0004 Loudspeaker left rear</td>
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<td>AUM-3000 GPS receiver Audio HU1205</td>
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<td>BCM-0020 Right front wheel sensor</td>
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<td>BCM-0021 Right front wheel sensor</td>
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<td>AUD-0006 Loudspeaker left front</td>
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<td>AUM-4001 Antenna amplifier 1</td>
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<td>BCM-0022 Right front wheel sensor</td>
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<td>AUM-4002 Amplifier, main antenna</td>
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<td>AUD-0008 Loudspeaker right front</td>
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<td>AUM-400FF Amplifier, main antenna</td>
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<td>BCM-0031 Left rear wheel sensor</td>
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<td>AUD-0009 Loudspeaker left rear</td>
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<td>AUM-41FF Amplifier, sub-antenna</td>
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<td>BCM-0032 Left rear wheel sensor</td>
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<td>AUD-000A Loudspeaker right rear</td>
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<td>AUM-4201 Single CD player</td>
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<td>BCM-0040 Right rear wheel sensor</td>
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<td>AUD-000B Loudspeakers front</td>
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<td>AUM-4203 Single CD player</td>
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<td>AUM-42F1 Single CD player</td>
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<td>BCM-0058 Power supply</td>
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<td>BCM-0061 Brake discs</td>
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<td></td>
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<td>AUM-43FF MiniDisc player</td>
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<td>BCM-0068 Sensor power supply</td>
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<td>BCM-0083 Angle of lean sensor</td>
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<td>AUM-47FF Amplifier</td>
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<td>BCM-0103 Pedal position sensor</td>
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<td>AUME003 Communication control module</td>
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<td>BCM-0105 Steering wheel, wheel alignment</td>
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<td>BCM-0106 Steering wheel, wheel alignment</td>
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<td>BCM-0108 Communication control modules</td>
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<td>BCM-0111 Communication control modules</td>
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<td>BCM-0112 Active yaw control sensor</td>
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<td>BCM-0112 Body sensor cluster stability sensor</td>
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<td>BCM-0113 Back-up (reversing) signal</td>
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<td>BCM-0114 Communication with BSC</td>
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BCM-0116 Communication active yaw control
BCM-0116 Communication BSC
BCM-0117 Communication active yaw control
BCM-0117 Communication BSC
BCM-0118 Power supply for active yaw control
BCM-0118 Power supply for BSC
BCM-0119 Power supply for active yaw control
BCM-0119 Power supply for BSC
BCM-0121 Yaw rate sensor
BCM-0123 Active yaw control sensor
BCM-0123 BSC
BCM-0125 Lateral accelerometer
BCM-0127 Angle of lean sensor
BCM-0129 Accelerometer
BCM-0130 Brake pressure sensor 1
BCM-0131 Brake pressure sensor
BCM-0132 Brake pressure sensor
BCM-0133 Brake pressure sensor 2
BCM-0134 Brake pressure sensor
BCM-0135 Brake pressure sensor
BCM-0136 Brake pressure sensor 1 and 2
BCM-0138 Power supply for active yaw control
BCM-0138 Power supply for BSC
BCM-0139 Pressure build-up valve, power brake booster
BCM-0140 Pedal pressure sensor
BCM-0145 Stability control
BCM-0146 Factory test DSTC
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BCM-0150 Stop lamp switch
BCM-0151 Control module
BCM-A030 Communication control modules
BCM-A031 Communication control modules
BCM-A032 Communication control modules
BCM-E000 Control module communication
BCM-E003 Configuration fault

CCM
CCM-0001 Blower fan motor
CCM-0001 Configuration fault
CCM-0002 Blower fan motor
CCM-0002 Evaporator temperature sensor
CCM-0003 Blower fan motor passenger compartment temperature sensor
CCM-0003 Evaporator temperature sensor
CCM-0004 Compressor
CCM-0004 Passenger compartment temp sensor
CCM-0005 Evaporator temperature sensor
CCM-0005 Passenger compartment temp sensor
CCM-0006 Blower fan motor passenger compartment temperature sensor
CCM-0006 Evaporator temperature sensor
CCM-0006 Temp damper motor position sensor
CCM-0007 Passenger compartment temp sensor
CCM-0007 Temp damper motor position sensor
CCM-0008 Blower fan motor passenger compartment temperature sensor
CCM-0008 Sun sensor
CCM-0009 Blower fan motor passenger compartment temperature sensor
CCM-0009 Sun sensor
CCM-000A Air distribution damper motor position sensor
CCM-000A Nightfall sensor
CCM-000B Air distribution damper motor position sensor
CCM-000B Left temperature damper motor
CCM-000C Right temperature damper motor
CCM-000D Recirculation damper motor
CCM-000E Damper motor, floor / ventilation
CCM-000F Damper motor defroster
CCM-0010 Air distribution damper motor
CCM-0010 Control module
CCM-0011 Control module
CCM-0011 Left temperature damper motor
CCM-0012 Right temperature damper motor
CCM-0012 Temperature damper motor
CCM-0013 Air distribution damper motor
CCM-0013 Recirculation damper motor
CCM-0014 Damper motor, floor and ventilation
CCM-0015 Damper motor defroster
CCM-0016 Air distribution damper motor
CCM-0017 Damper motor direction control
CCM-0017 Direction regulator damper motor
CCM-0018 Damper motor direction control
CCM-0018 Direction regulator damper motor
CCM-0019 Function button
CCM-001A Blower fan knob
CCM-001B Blower fan motor
CCM-001B Lower switch
CCM-001C Lower switch
CCM-001D Left temperature knob
CCM-001E Right Temperature knob
CCM-001F Air quality sensor
CCM-001F Blower fan motor
CCM-0020 Air quality sensor
CCM-0020 Blower fan power unit
CCM-0020 Function button
CCM-0021 Air quality sensor
CCM-0021 Blower fan power unit
CCM-0022 Air quality sensor
CCM-0030 Left heater pad
CCM-0031 Sensor left-hand seat heater
CCM-0032 Left-hand seat heater
CCM-0033 Left-hand seat heater
CCM-0034 Right heater pad
CCM-0035 Sensor right-hand seat heater
CCM-0036 Right-hand seat heater
CCM-0037 Right-hand seat heater
CCM-0040 Air quality sensor
CCM-0045 Blower fan relay
CCM-0046 Blower fan relay
CCM-0050 Blower fan knob
CCM-0051 Temperature control left
CCM-0052 Left-hand seat heater
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CCM-0053 Air distribution control
CCM-0053 Right-hand seat heater
CCM-0056 Communication left-hand seat heater
CCM-0057 Communication right-hand seat heater
CCM-0058 Communication left-hand seat heater
CCM-0059 Communication right-hand seat heater
CCM-0060 Damper motor defroster
CCM-0061 Rear demist, heated door mirrors
CCM-0061 Recirculation damper motor
CCM-0062 Left temperature damper motor
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CCM-0064 Request AC, ECC, MCC
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CCM-0066 Recirculation damper motor
CCM-0067 Recirculation damper motor
CCM-0070 Configuration fault
CCM-0071 Damper motor
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CCM-0072 Damper motor
CCM-0073 Air distribution damper motor
CCM-0079 ECT sensor, ECC
CCM-007A ECT sensor, ECC
CCM-007C Evaporator temp sensor, ECC, MCC
CCM-007D Evaporator temp sensor, ECC, MCC
CCM-007E Outside temperature sensor ECC
CCM-007F Outside temperature sensor, ECC
CCM-0080 Air distribution damper motor
CCM-0081 Temperature damper motor
CCM-0085 30-power supply
CCM-0086 Left-hand seat heater switch
CCM-0087 AC switch, ECC, MCC
CCM-0088 REC switch
CCM-0089 Rear defroster switch
CCM-008A Right-hand seat heater switch
CCM-008B Climate control module ECC
CCM-0090 Lower switch
CCM-0091 Lower switch
CCM-0092 Blower fan motor
CCM-0093 Blower fan motor
CCM-DD00 LIN bus 1
CCM-DD01 LIN bus 1
CCM-DD02 LIN bus 1
CCM-DD10 Air quality sensor (AQS)
CCM-DD12 Left seat heater
CCM-DD14 Recirculation damper motor
CCM-DD15 Left temperature damper motor
CCM-DD16 Damper motor air distribution
CCM-DD20 LIN bus 2
CCM-DD21 LIN bus 2
CCM-DD22 LIN bus 2
CCM-DD30 Right-hand seat heater
CCM-DD31 Recirculation damper motor
CCM-DD32 Right temperature damper motor
CCM-DD33 Damper motor defroster
CCM-DD34 Air quality sensor (AQS)
CCM-E001 Control module communication
CCM-E003 Configuration fault
CCM-E010 Power supply

CEM 0001 Control module
CEM 0002 High beam flash
CEM 0003 Lighting switch
CEM 0009 15/2-Power supply
CEM 000A 75-Power supply

CEM 000B Switch, front fog lamps
CEM 000C Switch, rear fog lamps
CEM 000D Rheostat, input
CEM 000E Speed signal
CEM 000F High beam
CEM 0010 High beam
CEM 001E Rheostat, output
CEM 0021 Control module, internal fault
CEM 0022 Windshield wiper, parking position switch
CEM 0023 Windshield wiper, parking position switch
CEM 0024 Control module, internal fault
CEM 0025 Bulb failure warning sensor
CEM 0026 Bulb failure warning sensor
CEM 0027 Battery voltage
CEM 1A03 S-Power supply
CEM 1A05 X-Power supply
CEM 8C12 Switch, rear fog lamps
CEM BD02 Ignition switch lighting and high-mounted stop lamp (LED)
CEM-1010 Control module memory fault
CEM-1011 (A) Control module memory fault
CEM-1011 (B) Control module memory fault
CEM-1012 (A) Control module memory fault
CEM-1012 (B) Control module memory fault
CEM-1A03 S-Power supply
CEM-1A04 X-Power supply
CEM-1A05 30 Power supply
CEM-1A05 X-Power supply
CEM-1A06 15-Power supply
CEM-1A07 15-Power supply
CEM-1A08 50-Power supply
CEM-1A09 50-Power supply
CEM-1A21 Engine control module (ECM)
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CEM-1A22 Engine control module (ECM)
CEM-1A23 Increased power supply relay
CEM-1A24 Relay Ext X2-Power supply
CEM-1A25 Relay Ext X2-Power supply
CEM-1A26 Relay, 15i power supply
CEM-1A27 Relay, 15i power supply
CEM-1A40 50-power supply
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CEM-1A41 (B) Real time clock
CEM-1A42 Real time clock
CEM-1A51 Communication with SRS
CEM-1A52 Communication with DDM
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CEM-1A54 Communication with PSM
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CEM-1A59 Communication with AUM
CEM-1A5A Communication with REM
CEM-1A5B Communication with SVWM
CEM-1A5C Communication with UEM
CEM-1A5D Communication with ETM
CEM-1A5E Communication with SAS
CEM-1A5F Communication with ABS
CEM-1A5F Communication with BCM
CEM-1A61 Communication with TCM
CEM-1A62 Communication with ECM
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CEM-1A64 Communication with DEM
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CEM-1A66 Communication with ICM
CEM-1C01 L signal
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CEM-1C07 Alternator control module (ACM)
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CEM-1D01 Control module memory fault
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CEM-1D03 Control module not fully programmed
CEM-1D04 ECM, software
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CEM-1E03 Power steering
CEM-1E04 Power steering
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CEM-2F02 Seat position sensor, driver
CEM-2F03 Seat position sensor, driver
CEM-2F04 Seat position sensor, passenger
CEM-2F05 Seat position sensor, passenger
CEM-2F06 Seat position sensor, passenger
CEM-2F60 Twilight sensor
CEM-2F61 Twilight sensor
CEM-2FA1 Driver seatbelt lock
CEM-2FA2 Driver seatbelt lock
CEM-2FA3 Driver seatbelt lock
CEM-2FA4 Passenger seatbelt lock
CEM-2FA5 Passenger seatbelt lock
CEM-2FA6 Passenger seatbelt lock
CEM-3A00 ECM software
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CEM-3A02 Fuel pump
CEM-3A03 Fuel pump
CEM-3A04 Fuel pump (FP)
CEM-3A05 Fuel pump (FP)
CEM-3A07 Fuel pump (FP)
CEM-3A07 Relay, leak diagnostic pump heating
CEM-3A08 Fuel pump (FP)
CEM-3A08 Relay, leak diagnostic pump heating
CEM-3F01 (A) Clutch pedal sensor
CEM-3F02 (A) Clutch pedal sensor
CEM-3F02 (B) Back up gear inhibitor
CEM-3F03 Back up gear inhibitor
CEM-3F02 Shift lock signal
CEM-3F03 Shift lock signal
CEM-3F81 Immobilizer signal
CEM-3F82 Immobilizer signal
CEM-3F83 Immobilizer signal
CEM-3F84 Immobilizer signal
CEM-3F90 Fuel pump relay
CEM-3F91 Fuel pump relay
CEM-3F92 Accelerator pedal (AP) position sensor
CEM-3F93 Accelerator pedal (AP) position sensor
CEM-4A00 Total mileage
CEM-4A01 Ejector senso
CEM-4A31 Fuel level sensor
CEM-4A32 Fuel level sensor
CEM-4A33 Fuel level sensor
CEM-4A34 Fuel level sensor
CEM-4A35 Fuel level sensor
CEM-4A36 Fuel level sensor
CEM-4A37 Fuel level sensor
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CEM-4E24 Malfunction indicator lamp (MIL)
CEM-4E25 Malfunction indicator lamp (MIL)
CEM-4F00 Reset button
CEM-4F01 Read button
CEM-4F30 Battery temperature
CEM-4F31 Battery temperature
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CEM-4F40 Seat belt buckle, right rear seat
CEM-4F41 Light emitting diode, left camera module
CEM-4F42 Light emitting diode, right camera module
CEM-4F43 Light emitting diode, left camera module
CEM-4F44 Light emitting diode, right camera module
CEM-4F45 Light emitting diode, rear center
CEM-4F46 Light emitting diode, right camera module
CEM-4F47 Left camera module
CEM-4F48 Right camera module (RCM)
CEM-4F49 Seat belt buckle, rear left-hand
CEM-4F50 Seat belt buckle, rear left-hand
CEM-4F81 Lamp, seat belt reminder
CEM-4F82 Lamp, seat belt reminder
CEM-4F90 Seat belt reminder
CEM-4F91 Seat belt reminder
CEM-4F92 Seat belt reminder
CEM-4F93 Seat belt reminder
CEM-4F94 Seat belt buckle, rear right-hand
CEM-5A00 Sun sensor
CEM-5A01 Sun sensor
CEM-5A10 Blower fan motor
CEM-5A12 Blower fan motor
CEM-5A13 Blower fan motor
CEM-5A15 Blower fan motor
CEM-5A60 PTC heater
CEM-5A61 PTC heater
CEM-7A02 Scan+ button
CEM-7A03 Scan- button
CEM-7A04 Volume+ button
CEM-7A05 Phone YES button
CEM-7A06 Phone NO button
CEM-7A07 RTI Right button
CEM-7A08 RTI Left button
CEM-7A09 RTI Down button
CEM-7A0A RTI Up button
CEM-7A0B RTI Back button
CEM-7A0C RTI Enter button
CEM-8A01 Invalid switch position for light switch
CEM-8A02 Main beam relay
CEM-8A03 Relay, high beam
CEM-8A04 Main beam relay
CEM-8A05 Dipped headlamp relay
CEM-8A07 Dipped headlamp relay
CEM-8A08 Extra lamp relay
CEM-8A08 Low beam right
CEM-8A09 Low beam right
CEM-8A0A Extra lamp relay
CEM-8A0B Relay, daytime running lamp
CEM-8A0C Relay, daytime running lamp
CEM-8A11 Low beam left
CEM-8A12 Low beam left
CEM-8A20 GDL left-hand
CEM-8A20 Low beam left
CEM-8A21 GDL left-hand
CEM-8A21 Low beam right
CEM-8A22 GDL left-hand
CEM-8A23 GDL right-hand
CEM-8A24 GDL left-hand
CEM-8A25 GDL right-hand
CEM-8A26 GDL left-hand
CEM-8A27 GDL right-hand
CEM-8A28 GDL left-hand
CEM-8A29 GDL right-hand
CEM-8A30 Daytime running lamps, left
CEM-8A30 GDL left-hand
CEM-8A31 Daytime running lamps, right
CEM-8A31 GDL left-hand
CEM-8A32 GDL right-hand
CEM-8A32 High beam flash
CEM-8A33 GDL left-hand
CEM-8A34 GDL right-hand
CEM-8A35 GDL left-hand
CEM-8A36 GDL right-hand
CEM-8A37 GDL left-hand
CEM-8A38 GDL right-hand
CEM-8A39 GDL left-hand
CEM-8A40 GDL left-hand
CEM-8B01 Parking lamps
CEM-8B01 Position lamp relay
CEM-8B02 Left parking lamps
CEM-8B03 Left parking lamps
CEM-8B03 Position lamp relay
CEM-8B05 Right parking lamps
CEM-8B06 Right parking lamps
CEM-8B08 Light switch module (LSM)
CEM-8B09 Light switch module (LSM)
CEM-8C10 Relay, front fog lamps
CEM-8C11 Front fog lamp switch
CEM-8C11 Relay, front fog lamps
CEM-8C12 Switch, front fog lamps
CEM-8C13 Front fog lamp relay
CEM-8C15 Front fog lamp relay
CEM-8C20 Rear fog lamp
CEM-8C21 Rear fog lamp
CEM-8D01 Ignition lock light and extra brake light
CEM-8D01 Ignition switch lighting and high-mounted stop lamp (LED)
CEM-8E01 Back-up [reversing] lamp switch
CEM-8E01 Reversing light
CEM-8E01 Switch, hazard warning signal flashers
CEM-8E01 Warning flasher and glovebox light
CEM-8E02 Left direction indicator
CEM-8E02 Switch, hazard warning signal flashers
CEM-8E02 Left-hand turn signal lamp
CEM-8E03 Right direction indicator
CEM-8E03 Right-hand turn signal lamp
CEM-8E04 Turn signal lamp
CEM-8F01 Switch, hazard warning signal flashers
CEM-8F01 Switch, hazard warning signal flashers
CEM-8F06 Switch, hazard warning signal flashers
CEM-8F07 Switch, hazard warning signal flashers
CEM-8F08 Engine control module (ECM)
CEM-8F09 Engine control module (ECM)
CEM-8F11 CEM Headlamp beam height control
CEM-8F11 Light width control
CEM-8F12 Beam setting control
CEM-8F12 CEM Headlamp beam height control
CEM-8F13 LSM Headlamp beam height control
CEM-8F13 Light width control
CEM-8F14 LSM Headlamp beam height control
CEM-8F14 Light width control
CEM-8F15 Xenon lamp left
CEM-8F16 Xenon lamp left
CEM-8F17 Xenon lamp left
CEM-8F18 Xenon lamp left
CEM-8F19 Xenon lamp right
CEM-8F1A Xenon lamp right
CEM-8F1B Xenon lamp right
CEM-8F1C Xenon lamp right
CEM-8F1D X-supply relay circuit
CEM-8F21 Windshield wiper
CEM-8F21 Wiper motor module [WMM]
CEM-8F21 Wipers
CEM-8F22 Windshield wiper
CEM-8F22 Wiper motor module [WMM]
CEM-8F22 Wipers
CEM-8F23 Relay, windshield wiper
CEM-8F23 Wiper motor module [WMM]
CEM-8F24 Wiper motor module (WMM)
CEM-8F25 Relay, windshield wiper
CEM-8F25 Relay, windshield wiper
CEM-8F26 Relay, front windshield washer motor
CEM-8F26 Windshield wiper, high speed relay
CEM-8F27 Relay, front windshield washer motor
CEM-8F28 Tailgate washer motor relay
CEM-8F28 Windshield wiper, high speed relay
CEM-8F29 Relay, front screen washer motor
CEM-8F29 Tailgate washer motor relay
CEM-8F2B Windshield washer motor, relay
CEM-8F2C Windshield wiper
CEM-8F2C Wipers
CEM-8F2D Windshield wiper
CEM-8F2D Wipers
CEM-8F2E Windshield wiper
CEM-8F2E Wipers
CEM-8F30 Relay, headlamp wash / wipe
CEM-8F30 Windshield wiper lever
CEM-8F31 Relay, headlamp wash / wipe
CEM-8F31 Windshield wiper lever
CEM-8F32 Windshield wiper lever
CEM-8F33 Right-hand turn signal lamp
CEM-8F34 Right-hand turn signal lamp
CEM-8F35 Left-hand turn signal lamp
CEM-8F36 Left-hand turn signal lamp
CEM-8F41 Relay, tailgate wiper
CEM-8F41 Tailgate washer motor relay
CEM-8F42 Relay, tailgate wiper
CEM-8F43 Tailgate washer motor relay
CEM-8F44 Windshield wiper lever
CEM-8F45 Windshield wiper lever
CEM-8F51 Relay, headlamp wash / wipe
CEM-8F52 Relay, headlamp wash / wipe
CEM-8F51 Relay, heated rear windshield
CEM-8F52 Relay, heated rear windshield
CEM-8F61 Relay, horn
CEM-8F62 Relay, horn
CEM-8FF0 Light emitting diode, Rain sensor button
CEM-8FF1 Light emitting diode, Rain sensor button
CEM-9A01 Interior lighting
CEM-9A02 Interior lighting
CEM-9A01 Glove compartment lighting
CEM-9C01 Glove compartment lighting
CEM-9C02 Antenna / light ring
CEM-9C03 Antenna / light ring
CEM-9E01 Entrance lighting
CEM-9F20 Twilight sensor
CEM-9F21 Twilight sensor
CEM-9F24 Rheostat
CEM-9F25 Rheostat
CEM-9F31 Dimmer
CEM-9F32 Dimmer
CEM-DD00 (A) LIN bus 2
CEM-DD00 (B) LIN bus 3
CEM-DD00 Communication with LSM
CEM-DD01 (A) LIN bus 2
CEM-DD01 (B) LIN bus 3
CEM-DD01 Communication with LSM
CEM-DF17 CAN-L, high speed network
CEM-E000 Communication control module
CEM-E001 Communication control module

**CPM**
CPM-0018 Glow plugs
CPM-0102 Glow plugs
CPM-0204 Glow plugs
CPM-0318 Fuel pump
CPM-0402 Fuel pump
CPM-0504 Fuel pump
CPM-1001 Combustion fan
CPM-1128 Combustion fan
CPM-1204 Combustion fan
CPM-1308 Combustion fan
CPM-1418 Water pump
CPM-1502 Water pump
CPM-1604 Water pump
CPM-2308 Control module
CPM-3002 ECT sensor
CPM-3141 ECT sensor
CPM-3202 Overheat protection thermostat
CPM-3341 Overheat protection thermostat
CPM-3402 Flame sensor
CPM-3541 Flame sensor
CPM-4101 Engine coolant heater
CPM-4208 Engine coolant heater
CPM-4308 Engine coolant heater
CPM-4501 Combustion fan
CPM-5001 Control module
CPM-5101 Control module
CPM-5201 Control module
CPM-5301 Control module
CPM-5401 Control module
CPM-5601 Control module
CPM-5701 Control module
CPM-6008 Control module
CPM-6108 Control module
CPM-6208 Control module
CPM-6301 Control module
CPM-6408 Control module
CPM-6508 Control module
CPM-6602 Control module
CPM-6704 Control module
CPM-E001 Control module communication
CPM-E003 Configuration fault
CPM-E010 Control module

**DDM**
DDM-0012 Control, driver’s window
DDM-0013 Control, passenger window
DDM-0014 Control, left rear side window
DDM-0015 Control, right rear side window
DDM-0016 Child-proof lock
DDM-0017 Control panel, driver’s window
DDM-0019 Lock, driver’s door
DDM-001A Driver’s door lock
DDM-001B Driver’s door lock
DDM-001D Central locking button
DDM-0020 Control, door mirror
DDM-0021 Control, door mirror
DDM-0022 Control, door mirror selector
DDM-0023 Control, door mirror selector
DDM-0034 Driver-side window control
DDM-0035 Passenger-side window control
DDM-0036 Control, left rear side window
DDM-0037 Control, right rear side window
DDM-0038 Control, door mirror
DDM-0039 Child-proof lock
DDM-003B Control, driver’s window
DDM-003C Passenger-side window control
DDM-003D Rear left side-window control
DDM-003E Rear right side-window control
DDM-003F Rear-view mirror control
DDM-0040 Rear-view mirror selector control
DDM-0041 Door warning lamp
DDM-0042 Door warning lamp
DDM-0044 Door mirror lamp
DDM-0045 Door mirror lamp
DDM-0047 Power supply
DDM-0049 Control module
DDM-004A Outside temperature sensor
DDM-004B Outside temperature sensor
DDM-004C Control module
DDM-004D Control module
DDM-E001 Control module communication
DDM-E003 Configuration fault

**DEM**
DEM 0006 Feed pump
DEM 000B Oil pressure
DEM 0001 Temperature sensor
DEM 0002 Pressure sensor
DEM 0003 System voltage
DEM 0005 Control valve
DEM 0007 Hydraulic pressure
DEM 0008 Control module calibration fault
DEM 0009 Ctrl module Analog/Digital converter
DEM 000A Power supply. Faulty voltage
DEM 000C Control module
DEM-E000 Control module communication
DEM-E003 Configuration fault

**DIM**
DIM 0001 Driving distance
DIM 0001 Mileage
DIM 0001 Vehicle speed signal
DIM 0002 ABS warning lamp
DIM 0002 Fuel level sensor
DIM 0003 Fuel level sensor
DIM 0003 SRS warning lamp
DIM 0004 Fuel level sensor
DIM 0005 Engine coolant temperature (ECT) sensor signal
DIM 0005 Red general warning lamp
DIM 0006 12-pulse vehicle speed signal
DIM 0006 Orange general warning lamp
DIM 0007 12-pulse vehicle speed signal
DIM 0007 Global parameter
DIM 0008 Fuel level sensor
DIM-0009 Fuel ejector
DIM-000A D+ signal
DIM-000B Outside temperature sensor
DIM-000C Control module
DIM-000D Communication ECM
DIM-000E Control module
DIM-DF13 CAN bus H-signal
DIM-DF14 CAN bus L signal
DIM-DF15 CAN bus H signal
DIM-DF16 CAN bus L signal
DIM-E000 Communication control module
DIM-E001 Control module communication
DIM-E003 Configuration fault
DIM-E003 Software fault

**ECM**

ECM -0017 Glow plug relay
ECM -2000 ECT sensor
ECM -2100 Fuel pressure sensor
ECM 914C Electronic throttle module (ETM)
ECM 91AC Electronic throttle module (ETM)
ECM 91AC Electronic throttle module (ETM)
ECM 91AC Electronic throttle module (ETM)
ECM-0000 Engine speed (RPM) sensor
ECM-0000 Impulse sensor
ECM-0000 Impulse sensor
ECM-0001 Secondary engine speed
ECM-0001 Secondary speed
ECM-0001 Secondary speed
ECM-0002 Fuel volume control valve
ECM-0002 System relay output signal
ECM-0003 Fuel volume control valve
ECM-0003 Needle lift sensor
ECM-0004 Accel pedal (AP) pos sensor
ECM-0004 Fuel volume control valve
ECM-0005 ECT sensor
ECM-0005 ECT sensor
ECM-0006 Air temperature sensor
ECM-0008 Fuel temperature sensor
ECM-0009 Boost pressure sensor
ECM-0009 Charging pressure sensor
ECM-000A Atmospheric pressure signal of control unit
ECM-000B Mass air flow (MAF) sensor
ECM-000D Reference voltage of control unit
ECM-000F Microprocessor of control unit
ECM-0011 Injection timing control
ECM-0012 A/C linear pressure sensor
ECM-0014 A/C-relay
ECM-001D Turbocharger (TC) control valve
ECM-001E Throttle position sensor, channel 1
ECM-001E Throttle unit, potentiometer 1
ECM-0021 Brake pedal position sensor
ECM-0022 Clutch pedal position sensor
ECM-0024 Engine coolant heater relay 1 +2
ECM-0025 Control unit memory fault
ECM-0028 System relay
ECM-0029 Fuel quantity control
ECM-002A 15-supply to the control module
ECM-002C Fuel quantity
ECM-002F Fuel quantity regulator position sensor
ECM-0030 Front HO2S, bank 1 heating

ECM-0030 Temperature sensor of control unit
ECM-0031 Front HO2S, bank 1 heating
ECM-0032 Engine cooling fan control module
ECM-0032 Front HO2S, bank 1 heating
ECM-0033 Accel pedal (AP) pos sensor
ECM-0033 Bypass valve, charge air cooler (CAC)
ECM-0034 Bypass valve, charge air cooler (CAC)
ECM-0035 Bypass valve, charge air cooler (CAC)
ECM-0036 Rear HO2S, bank 1 heating
ECM-0037 Rear HO2S, bank 1 heating
ECM-0038 Rear HO2S, bank 1 heating
ECM-0039 Turbocharger (TC) control system
ECM-003A Alternator charging
ECM-003B Central electronic module (CEM)
ECM-003C Transmission control module (TCM)
ECM-0046 Turbocharger (TC) control valve
ECM-0047 Turbocharger (TC) control valve
ECM-0048 Turbocharger (TC) control valve
ECM-0053 Front HO2S, bank 1 heating
ECM-0054 Rear HO2S, bank 1 heating
ECM-0069 Boost pressure sensor
ECM-0070 Outside temperature sensor
ECM-0089 Fuel pressure control valve
ECM-0091 Fuel pressure control valve
ECM-0092 Fuel pressure control valve
ECM-0097 IAT sensor
ECM-0098 IAT sensor
ECM-0099 IAT sensor
ECM-0100 Air flow sensor
ECM-0101 Mass air flow (MAF) sensor
ECM-0104 Mass air flow (MAF) sensor
ECM-0105 Atmospheric pressure sensor
ECM-0105 MAP sensor
ECM-0106 Boost pressure sensor
ECM-0106 MAP sensor
ECM-0107 MAP sensor
ECM-0108 MAP sensor
ECM-0109 MAP sensor
ECM-010F Mass air flow (MAF) sensor
ECM-0110 IAT sensor
ECM-0112 IAT sensor
ECM-0112 Mass air flow (MAF) sensor
ECM-0113 IAT sensor
ECM-0113 Mass air flow (MAF) sensor
ECM-0114 Mass air flow (MAF) sensor
ECM-0115 ECT sensor
ECM-0116 ECT sensor
ECM-0117 ECT sensor
ECM-0118 ECT sensor
ECM-0119 ECT sensor
ECM-0120 Throttle position sensor, channel 1
ECM-0120 Throttle unit, potentiometer 1
ECM-0121 Electronic throttle unit, potentiometer 1
ECM-0122 Accelerator pedal (AP) position sensor
ECM-0122 Electronic throttle unit, potentiometer 1
ECM-0123 Accelerator pedal (AP) position sensor
ECM-0123 Electronic throttle unit, potentiometer 1
ECM-0125 Lambda probe signal
ECM-0130 Front HO2S, bank 1
ECM-0130 Front lambda probe
ECM-0131 Front HO2S, bank 1
ECM-0132 Front HO2S, bank 1
ECM-0133 Front HO2S, bank 1
ECM-0134 Front HO2S, bank 1
ECM-0135 Front HO2S, bank 1
ECM-0135 Front lambda probe, pre-heating
ECM-0136 Rear HO2S, bank 1
ECM-0136 Rear lambda probe, signal
ECM-0137 Rear HO2S, bank 1
ECM-0138 Rear HO2S, bank 1
ECM-0140 Rear HO2S, bank 1
ECM-0141 Rear HO2S, bank 1
ECM-0141 Rear lambda probe, pre-heating
ECM-0170 Lambda integrator
ECM-0170 Long-term fuel trim, bank 1
ECM-0171 Long-term fuel trim, bank 1
ECM-0172 Long-term fuel trim, bank 1
ECM-0182 Fuel temperature sensor
ECM-0183 Fuel temperature sensor
ECM-0184 Fuel temperature sensor
ECM-0190 Fuel pressure sensor
ECM-0191 Fuel pressure sensor
ECM-0192 Fuel pressure sensor
ECM-0193 Fuel pressure sensor
ECM-0194 Fuel pressure sensor
ECM-0200 Fuel injection system driver
ECM-0201 Injection valve 1
ECM-0202 Injection valve 2
ECM-0203 Injection valve 3
ECM-0204 Injection valve 4
ECM-0220 Accel pedal position sensor, channel 1
ECM-0220 Throttle unit, potentiometer 2
ECM-0221 Electronic throttle unit, potentiometer 2
ECM-0222 Accelerator pedal (AP) position sensor
ECM-0223 Accelerator pedal (AP) position sensor
ECM-0223 Electronic throttle unit, potentiometer 2
ECM-0225 Throttle position sensor
ECM-0230 Fuel pump (FP)
ECM-0231 Fuel pump (FP)
ECM-0232 Fuel pump (FP)
ECM-0234 Turbocharger (TC) control
ECM-0236 Boost pressure sensor (MAP)
ECM-0237 Boost pressure sensor (MAP)
ECM-0238 Boost pressure sensor (MAP)
ECM-0261 Injector cyl 1
ECM-0262 Injector cyl 1
ECM-0264 Injector cyl 2
ECM-0265 Injector cyl 2
ECM-0267 injector cyl 3
ECM-0268 Injector cyl 3
ECM-0270 Injector cyl 4
ECM-0271 Injector cyl 4
ECM-0299 Turbocharger (TC) control
ECM-0300 Misfire, at least one cylinder
ECM-0301 Misfiring, cylinder 1
ECM-0302 Misfiring, cylinder 2
ECM-0303 Misfiring, cylinder 3
ECM-0304 Misfiring, cylinder 4
ECM-0315 Impulse sensor
ECM-0320 Engine speed (RPM) sensor signal
ECM-0324 Knock sensor (KS)
ECM-0325 Knock sensor
ECM-0335 Engine speed (RPM) sensor
ECM-0335 Impulse sensor
ECM-0336 Engine speed (RPM) sensor
ECM-0340 Camshaft position (CMP) sensor
ECM-0341 Camshaft position (CMP) sensor
ECM-0351 Ignition coil cyl 1
ECM-0352 Ignition coil cyl 2
ECM-0353 Ignition coil cyl 3
ECM-0354 Ignition coil cyl 4
ECM-0380 Glow plug relay
ECM-0400 EGR control
ECM-0403 EGR control servo
ECM-0405 Position sensor (EGR)
ECM-0406 Position sensor (EGR)
ECM-0420 TVC efficiency, bank 1
ECM-0425 Catalytic converter temperature sensor
ECM-0426 Front temp sensor, catalytic converter
ECM-0427 Front temp sensor, catalytic converter
ECM-0428 Front temp sensor, catalytic converter
ECM-042B Rear temp sensor, catalytic converter
ECM-042C Rear temp sensor, catalytic converter
ECM-042D Rear temp sensor, catalytic converter
ECM-0443 EVAP valve
ECM-0444 EVAP valve
ECM-0458 EVAP valve
ECM-0459 EVAP valve
ECM-0460 Fuel level sensor
ECM-0480 Engine cooling fan (FC)
ECM-0489 EGR control
ECM-0490 EGR control
ECM-0500 Vehicle speed signal
ECM-0504 Brake pedal sensor
ECM-0504 Stop lamp switch
ECM-0513 Immobilizer
ECM-0530 A/C pressure switch (Pressostat)
ECM-0532 A/C pressure sensor
ECM-0533 A/C pressure sensor
ECM-0551 Power steering
ECM-0562 Battery voltage
ECM-0562 System voltage
ECM-0563 Battery voltage
ECM-0571 Brake pedal sensor
ECM-0571 Stop lamp switch
ECM-0572 Brake pedal position sensor
ECM-0573 Brake pedal position sensor
ECM-0575 Cruise control
ECM-0578 Cruise control
ECM-0579 Cruise control
ECM-0603 Engine control module (ECM)
ECM-0604 Engine control module (ECM)
ECM-0605 Engine control module (ECM)
ECM-0606 Engine control module (ECM)
ECM-0607 Engine control module (ECM)
ECM-060A Engine control module (ECM)
ECM-060B Engine control module (ECM)
ECM-060C Engine control module (ECM)
ECM-060C Fuel injection system driver
ECM-060D Accelerator pedal (AP) position sensor
<p>| ECM-0610 | Engine control module (ECM) |
| ECM-0617 | Starter motor relay |
| ECM-061A | Engine speed (RPM) signal |
| ECM-061B | Engine control module (ECM) |
| ECM-061C | Engine control module (ECM) |
| ECM-061D | Engine speed (RPM) signal |
| ECM-061E | Communication SWM |
| ECM-0620 | Generator |
| ECM-0622 | Generator |
| ECM-0625 | Generator |
| ECM-062B | Fuel injection system driver |
| ECM-062F | Engine control module (ECM) |
| ECM-0641 | Reference voltage A |
| ECM-0642 | Power supply 1 |
| ECM-0643 | Power supply 1 |
| ECM-0643 | Reference voltage A |
| ECM-0645 | Air conditioning (A/C) relay |
| ECM-0646 | Air conditioning (A/C) relay |
| ECM-0647 | Air conditioning (A/C) relay |
| ECM-0651 | Reference voltage B |
| ECM-0652 | Power supply 2 |
| ECM-0653 | Power supply 2 |
| ECM-0653 | Reference voltage B |
| ECM-0685 | Engine control module (ECM) |
| ECM-0686 | System relay |
| ECM-0687 | Engine control module (ECM) |
| ECM-0688 | System relay |
| ECM-0691 | Engine cooling fan |
| ECM-0692 | Engine cooling fan |
| ECM-0703 | Brake pedal sensor |
| ECM-0704 | Clutch pedal position sensor |
| ECM-0A09 | Transformer |
| ECM-0A10 | Transformer |
| ECM-1000 | Atmospheric pressure sensor |
| ECM-1000 | Engine control module (ECM) |
| ECM-1001 | Engine control module (ECM) |
| ECM-100A | Engine control module (ECM) |
| ECM-1100 | Outside temperature sensor |
| ECM-110A | Outside temperature sensor |
| ECM-1111 | Accelerator pedal position sensor |
| ECM-1112 | Impulse sensor |
| ECM-1112 | Intake Air Temperature (IAT) Sensor |
| ECM-1113 | Needle lift sensor |
| ECM-1114 | Secondary speed |
| ECM-1116 | ECT sensor |
| ECM-1117 | ECT sensor |
| ECM-1120 | Engine temperature sensor |
| ECM-1122 | Air temperature sensor inlet |
| ECM-1123 | Fuel temperature sensor |
| ECM-1124 | Atmospheric pressure |
| ECM-1127 | Heated oxygen sensor (HO2S) |
| ECM-112C | Atmospheric pressure sensor |
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| ECM-1130 | Atmospheric pressure sensor |
| ECM-1130 | Front HO2S, bank 1 |
| ECM-1131 | Front HO2S, bank 1 |
| ECM-1131 | Mass air flow sensor |
| ECM-1132 | Front HO2S, bank 1 |
| ECM-1132 | Speed signal |
| ECM-1133 | Battery voltage |
| ECM-1134 | Engine control module |
| ECM-1137 | Rear HO2S, bank 1 |
| ECM-1138 | Rear HO2S, bank 1 |
| ECM-113B | Atmospheric pressure sensor |
| ECM-113C | Atmospheric pressure sensor |
| ECM-113D | Atmospheric pressure sensor |
| ECM-1142 | Brake pedal switch |
| ECM-1144 | Cruise control switch |
| ECM-1200 | Injector output stage |
| ECM-1201 | Fuel injection system driver |
| ECM-1202 | Fuel injection system driver |
| ECM-1203 | Fuel injection system driver |
| ECM-1204 | Fuel injection system driver |
| ECM-120A | Intake air temperature (IAT) sensor |
| ECM-120B | Mass air flow |
| ECM-120C | Mass air flow |
| ECM-120D | Mass air flow |
| ECM-120E | Fuel pressure sensor |
| ECM-120F | Fuel pressure control valve |
| ECM-1210 | Mass air flow (MAF) sensor |
| ECM-1213 | Fuel injection system driver |
| ECM-1214 | Mass air flow (MAF) sensor |
| ECM-1215 | Mass air flow (MAF) sensor |
| ECM-1220 | Electronic throttle module |
| ECM-1221 | Electronic throttle module signal |
| ECM-1223 | Electronic throttle module communication |
| ECM-1224 | Electronic throttle module, servo 1 |
| ECM-1225 | Accelerator position sensor, channel 2 |
| ECM-1228 | Electronic throttle module, servo 2 |
| ECM-122C | Mass air flow (MAF) sensor |
| ECM-122D | Mass air flow (MAF) sensor |
| ECM-1230 | Mass air flow |
| ECM-123B | Mass air flow |
| ECM-123C | Transformer |
| ECM-123D | Transformer |
| ECM-1246 | Generator (GEN) |
| ECM-125C | Boost pressure sensor |
| ECM-125D | Boost pressure sensor |
| ECM-1260 | Boost pressure sensor |
| ECM-1260 | Immobilizer |
| ECM-126B | Boost pressure sensor |
| ECM-126C | Boost pressure sensor |
| ECM-126D | Boost pressure sensor |
| ECM-1300 | Mass air flow (MAF) sensor |
| ECM-130A | Intake air temperature (IAT) sensor |
| ECM-130A | Mass air flow (MAF) sensor |
| ECM-130C | Mass air flow (MAF) sensor |
| ECM-1310 | Mass air flow meter |
| ECM-131C | IAT sensor |
| ECM-131D | IAT sensor |
| ECM-1320 | IAT sensor |
| ECM-1320 | Mass air flow meter |
| ECM-132C | IAT sensor |
| ECM-132D | IAT sensor |
| ECM-1335 | EGR control |
| ECM-135F | Mass air flow sensor |
| ECM-136F | Mass air flow (MAF) sensor |
| ECM-13AD | Air temperature sensor |</p>
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<td>ECM-6010</td>
<td>Engine cooling fan</td>
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<tr>
<td>ECM-6110</td>
<td>Camshaft position control, intake</td>
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<tr>
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<td>Engine cooling fan</td>
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<tr>
<td>ECM-6140</td>
<td>Camshaft control, exhaust</td>
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<tr>
<td>ECM-614B</td>
<td>Camshaft control, exhaust</td>
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<tr>
<td>Code</td>
<td>Description</td>
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<tr>
<td>ECM-A630</td>
<td>Brake control module (BCM)</td>
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<tr>
<td>ECM-A640</td>
<td>TCM</td>
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<td>ECM-A660</td>
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<td>ECM-A670</td>
<td>Communication TCM</td>
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<td>ECM-A680</td>
<td>TCM</td>
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<td>ECM-A690</td>
<td>TCM</td>
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<tr>
<td>ECM-A6A0</td>
<td>Ignition switch</td>
</tr>
<tr>
<td>ECM-C001</td>
<td>Control module communication</td>
</tr>
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<td>ECM-C002</td>
<td>Control module communication</td>
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<td>ECM-C073</td>
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<td>ECM-C118</td>
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<td>ECM-C131</td>
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<tr>
<td>ECM-C155</td>
<td>Communication DIM</td>
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<tr>
<td>ECM-C167</td>
<td>Communication CEM</td>
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<tr>
<td>ECM-C168</td>
<td>Communication BCM</td>
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<td>ECM-C322</td>
<td>Check sum error</td>
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<td>ECM-C326</td>
<td>Communication control module</td>
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<td>ECM-C400</td>
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<td>ECM-C415</td>
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<td>ECM-C416</td>
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<td>ECM-C426</td>
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<td>ECM-C427</td>
<td>Communication BCM</td>
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<tr>
<td>ECM-C001E</td>
<td>Front heated oxygen sensor (HO2S)</td>
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<tr>
<td>ECM-D000</td>
<td>Speed signal</td>
</tr>
<tr>
<td>ECM-D000E</td>
<td>Configuration fault</td>
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<tr>
<td>ECM-E000</td>
<td>Communication control module</td>
</tr>
<tr>
<td>ECM-E000C</td>
<td>Control module communication</td>
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<tr>
<td>ECM-E000</td>
<td>Control unit, internal fault</td>
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<tr>
<td>ECM-E003</td>
<td>Configuration fault</td>
</tr>
<tr>
<td>ECM-E003</td>
<td>Control unit, internal fault</td>
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<tr>
<td>ECM-E010</td>
<td>Configuration problem</td>
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<tr>
<td>ECM-C013</td>
<td>Configuration fault</td>
</tr>
<tr>
<td>ECM-C00D</td>
<td>Gas pressure sensor governor</td>
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**EFI**

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>EFI-0011</td>
<td>Heated oxygen sensor (HO2S)</td>
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<tr>
<td>EFI-0012</td>
<td>Volume air flow (VAF) sensor</td>
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<tr>
<td>EFI-0013</td>
<td>Intake air temperature (IAT) sensor</td>
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<tr>
<td>EFI-0014</td>
<td>Throttle position (TP) sensor</td>
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<tr>
<td>EFI-0021</td>
<td>Engine coolant temperature (ECT) sensor</td>
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<tr>
<td>EFI-0022</td>
<td>Engine speed (RPM) sensor</td>
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<tr>
<td>EFI-0025</td>
<td>Atmospheric pressure sensor</td>
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<tr>
<td>EFI-0036</td>
<td>Ignition adjustment signal</td>
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<td>EFI-0041</td>
<td>Injection valve</td>
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<td>EFI-0044</td>
<td>Ignition coil</td>
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<tr>
<td>EFI-0056</td>
<td>Fuel pressure sensor</td>
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<tr>
<td>EFI-0058</td>
<td>Abnormal intake air</td>
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<tr>
<td>EFI-0066</td>
<td>Brake vacuum sensor</td>
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<tr>
<td>EFI-0089</td>
<td>Fuel system fuel pressure</td>
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**EPS**

<table>
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<tr>
<th>Code</th>
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<tr>
<td>EPS-0020</td>
<td>Pump motor</td>
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<tr>
<td>EPS-0021</td>
<td>Pump motor</td>
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<tr>
<td>EPS-0022</td>
<td>Control module, internal fault</td>
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<tr>
<td>EPS-0030</td>
<td>Temperature sensor</td>
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<tr>
<td>EPS-0040</td>
<td>High temperature</td>
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<tr>
<td>EPS-0041</td>
<td>High temperature</td>
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<tr>
<td>EPS-0050</td>
<td>Memory fault in ROM</td>
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<tr>
<td>EPS-0051</td>
<td>Memory fault in ROM</td>
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<tr>
<td>EPS-0053</td>
<td>Memory fault in ROM</td>
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<tr>
<td>EPS-0060</td>
<td>Control module</td>
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<tr>
<td>EPS-0070</td>
<td>Power supply</td>
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<td>EPS-0071</td>
<td>Power supply</td>
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<td>EPS-0080</td>
<td>Steering wheel angle sensor</td>
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<tr>
<td>EPS-0081</td>
<td>Speed</td>
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<td>EPS-0082</td>
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<td>EPS-0083</td>
<td>Battery voltage</td>
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<td>EPS-E000</td>
<td>CAN communication</td>
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<td>EPS-E003</td>
<td>Configuration fault</td>
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**GDM**

<table>
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<tr>
<th>Code</th>
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<tr>
<td>GDM-0001</td>
<td>Speed signal</td>
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<tr>
<td>GDM-0002</td>
<td>Headlamp range adjustment</td>
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<td>GDM-0003</td>
<td>Angle sensor</td>
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<td>GDM-0005</td>
<td>Control module</td>
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<td>GDM-0006</td>
<td>Control module</td>
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<td>GDM-0007</td>
<td>Control module</td>
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<tr>
<td>GDM-0008</td>
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**GPS**

<table>
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<tr>
<th>Code</th>
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<tr>
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<td>GPS antenna</td>
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<td>GPS-0002</td>
<td>GPS antenna</td>
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<tr>
<td>GPS-0003</td>
<td>Control module</td>
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**IAM**

<table>
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<th>Code</th>
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<tr>
<td>IAM-1001</td>
<td>AM/FM antenna</td>
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<td>IAM-1002</td>
<td>AM/FM antenna</td>
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<tr>
<td>IAM-2001</td>
<td>Control module</td>
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<td>IAM-2002</td>
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<td>IAM-2003</td>
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<td>IAM-2004</td>
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<td>IAM-2005</td>
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<tr>
<td>IAM-3001</td>
<td>Front left speaker</td>
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<td>IAM-3002</td>
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<td>IAM-9002</td>
<td>Control module</td>
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**ICM**

<table>
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<tr>
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<tr>
<td>ICM-1A02</td>
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ICM-1A03 Control module
ICM-1A05 Control module
ICM-1A51 Communication AUD
ICM-1A52 Communication AFM
ICM-1A52 Communication ATM
ICM-1A53 Communication MMM
ICM-1A54 Communication SUB
ICM-1A55 Communication MP1
ICM-1A55 Communication MPM
ICM-1A56 Communication MP2
ICM-1A57 Communication PHM
ICM-1A58 Communication GPS
ICM-1A59 Communication TMC
ICM-1A5A Control module
ICM-1D01 Control module
ICM-1D03 Control module
ICM-1D07 Control module
ICM-1D08 Control module
ICM-1D09 Control module
ICM-1F20 Left keypad
ICM-1F21 Left-hand keypad circuit 1
ICM-1F22 Left-hand keypad circuit 2
ICM-1F23 Left-hand keypad circuit 3
ICM-1F24 Left-hand keypad circuit 4
ICM-1F25 Right-hand keypad circuit 5
ICM-1F26 Right keypad
ICM-1F27 Right-hand keypad circuit 1
ICM-1F28 Right-hand keypad circuit 2
ICM-1F29 POWER button
ICM-1F30 POWER button
ICM-1F31 SOUND button
ICM-1F32 VOLUME knob
ICM-1F33 SELECTOR knob
ICM-1F34 VOLUME knob
ICM-1F35 SELECTOR knob
ICM-1F36 Heating, display
ICM-1F37 Display
ICM-1F38 Temperature sensor
ICM-1F40 Receiver remote control
ICM-6C70 AFM not approved
ICM-6C70 ATM not approved
ICM-6C71 ALID not approved
ICM-6C72 MMM not approved
ICM-6C73 SUB not approved
ICM-6C74 MP1 not approved
ICM-6C74 MPM not approved
ICM-6C75 MP2 not approved
ICM-6C76 PHM not approved
ICM-6C77 GPS not approved
ICM-6C78 TMC not approved
ICM-6C79 ICM not approved
ICM-6C7A Control module
ICM-9F01 Display
ICM-DC00 Control module communication
ICM-DC01 Control module communication
ICM-DC02 Control module communication
ICM-ED01 Control module communication
ICM-ED03 Configuration fault
KVM
KVM-0001 Receiver
KVM-0002 Receiver
KVM-0003 Receiver
KVM-0010 Inner antenna
KVM-0011 Inner antenna
KVM-0012 Inner antenna
KVM-0013 Outer antenna left
KVM-0014 Outer antenna left-hand
KVM-0015 Outer antenna left-hand
KVM-0016 Outer antenna left-hand
KVM-0017 Outer antenna right-hand
KVM-0018 Outer antenna right-hand
KVM-0019 Outer antenna right-hand
KVM-001A Outer antenna right-hand
KVM-001B Outer antenna rear
KVM-001C Outer antenna rear
KVM-001D Outer antenna rear
KVM-001E Outer antenna rear
KVM-0020 Switch unlocking left front
KVM-0021 Switch unlocking right front
KVM-0022 Switch unlocking left rear
KVM-0023 Switch unlocking right rear
KVM-0030 Outer lock button left front
KVM-0031 Outer lock button right front
KVM-0032 Outer lock button left rear
KVM-0033 Outer lock button right rear
KVM-0040 Switch unlocking left front
KVM-0041 Switch unlocking right front
KVM-0042 Switch unlocking left rear
KVM-0043 Switch unlocking right rear
KVM-0050 Switch quick lock left front
KVM-0051 Switch quick lock right front
KVM-0052 Switch quick lock left rear
KVM-0053 Switch quick lock right rear
KVM-0060 Switch unlocking tailgate
KVM-0080 Control module
KVM-0081 Control module
KVM-E001 Control module communication
KVM-E003 Incorrect configuration
KVM-E010 Power supply

MMM
MMM-1000 Control module
MMM-2000 Control module
MMM-2100 Control module

MP1
MP1-0002 Control module
MP1-0003 Control module
MP1-0005 Control module
MP1-0006 Control module
MP1-0007 Eject button

MP2
MP2-0002 Control module
MP2-0003 Control module
MP2-0004 Control module
MP2-0005 Control module
MP2-0006 Control module
MPM
MPM-0002 Control module
MPM-0003 Control module
MPM-0004 Control module
MPM-0005 Control module
MPM-0006 Control module

PAM
PAM-0001 Control module
PAM-0002 Parking sensor 1
PAM-0003 Parking sensor 1
PAM-0004 Parking sensor 2
PAM-0005 Parking sensor 2
PAM-0006 Parking sensor 3
PAM-0007 Parking sensor 3
PAM-0008 Parking sensor 4
PAM-0009 Parking sensor 4
PAM-0010 Parking sensor 5
PAM-0011 Parking sensor 5
PAM-0012 Parking sensor 6
PAM-0013 Parking sensor 6
PAM-0014 Parking sensor 7
PAM-0015 Parking sensor 7
PAM-0016 Parking sensor 8
PAM-0017 Parking sensor 8
PAM-0018 Configuration fault
PAM-E001 Control module communication
PAM-E003 Configuration fault
PAM-E010 Power supply

PDM
PDM-0012 Control, passenger window
PDM-0017 Control, passenger window
PDM-0010 Central locking button
PDM-0034 Control, passenger window
PDM-0035 Control, passenger window
PDM-0036 Door warning lamp
PDM-0037 Door warning lamp
PDM-0039 Door mirror lamp
PDM-003A Door mirror lamp
PDM-003C Power supply
PDM-003E Control module
PDM-0040 Outside temperature sensor
PDM-0041 Outside temperature sensor
PDM-0042 Control module
PDM-0043 Control module
PDM-E001 Control module communication
PDM-E003 Configuration fault

PHM
PHM-0001 Power supply
PHM-0002 Hands-free speakers
PHM-0003 Communication control module
PHM-0004 Communication control module
PHM-0004 Hands-free loudspeaker
PHM-0005 Communication with control module
PHM-0006 Carphone microphone
PHM-0006 Hands-free loudspeaker
PHM-0008 Communication carphone box
PHM-0008 Hands-free microphone
PHM-0009 Hands-free microphone
PHM-000A Hands-free microphone
PHM-000B Telephone handset cradle
PHM-000C Handset cradle
PHM-000D Handset loudspeaker
PHM-000D Handset microphone
PHM-000E Carphone handset switch
PHM-000F Handset loudspeaker
PHM-0010 Hands-free speakers
PHM-0011 Hands-free speakers
PHM-0012 Hands-free speakers
PHM-0012 Handset supply
PHM-0013 Control module
PHM-0013 ON/OFF bulb
PHM-0014 Carphone antenna
PHM-0014 Carphone keypad lighting
PHM-0015 Control module
PHM-0015 Power supply
PHM-0016 Control module
PHM-0017 Communication carphone box
PHM-0018 Carphone box power supply
PHM-0019 Carphone box power supply
PHM-001A Carphone box power supply
PHM-001B Carphone handset power supply
PHM-001C Hands-free loudspeakers
PHM-001D Handset microphone
PHM-001E Handset loudspeaker
PHM-0020 Handset microphone
PHM-0022 Handset supply
PHM-0030 Backup battery
PHM-0031 GPS unit
PHM-0032 GPS antenna
PHM-0033 GPS antenna
PHM-0034 GPS antenna
PHM-003A Internal antenna
PHM-0040 SIM card
PHM-0063 Lighting switch
PHM-0064 Lighting switch
PHM-0065 Volvo On Call switch
PHM-0066 Volvo On Call switch
PHM-0067 Reserve battery, not connected
PHM-0068 SIM card holder
PHM-006A Communication problems MOST
PHM-006B Control module
PHM-006C Handset cradle
PHM-0080 Volvo On Call switch
PHM-0082 Volvo On Call switch
PHM-E001 Control module communication
PHM-E003 Configuration fault
PHM-E010 Power supply

PSM
PSM-0001 Hall sensor 1
PSM-0002 Hall sensor 2
PSM-0003 Hall sensor 3
PSM-0004 Hall sensor 4
PSM-0007 M1, M2, M3, M4 or MC
PSM-0008 M1, M2, M3, M4 or MC
PSM-0019 Memory function 1
PSM-001A Memory function 2
PSM-001B Memory function 3
PSM-001C Control panel
PSM-001D Control module, relay
PSM-001E Battery voltage
PSM-0020 Front-rear adjustment control, M1+
PSM-0021 Front-rear adjustment control, M1-
PSM-0022 Backrest adjustment control, M2+
PSM-0023 Backrest adjustment control, M2-
PSM-0024 Rear edge adjustment control, M3+
PSM-0025 Rear edge adjustment control, M3-
PSM-0026 Front edge adjustment control, M4+
PSM-0027 Front edge adjustment control, M4-
PSM-0028 Operating button, memory 1
PSM-0029 Operating button, memory 2
PSM-002A Operating button, memory 3
PSM-002B Memory button
PSM-002C Button combination not permissible, M1+ and M1-
PSM-002D Button combination not permissible, M2+ and M2-
PSM-002E Button combination not permissible, M3+ and M3-
PSM-002F Button combination not permissible, M4+ and M4-
PSM-0030 Front-rear adjustment, Motor 1 (M1+)
PSM-0031 Front-rear adjustment, Motor 1 (M1-)
PSM-0032 Backrest, Motor 2 (M2+)
PSM-0033 Backrest, Motor 2 (M2-)
PSM-0034 Seat rear edge, Motor 3 (M3+)
PSM-0035 Seat rear edge, Motor 3 (M3-)
PSM-0036 Seat front edge, Motor 4 (M4+)
PSM-0037 Seat front edge, Motor 4 (M4-)
PSM-0038 Incorrect software
PSM-003A Hall sensor 1
PSM-003B Hall sensor 2
PSM-003C Hall sensor 3
PSM-003D Hall sensor 4
PSME001 Control module communication
PSME003 Configuration fault
PSME010 Control module

REM
REM-1A01 30-Power supply
REM-1A02 Relay, extended power supply
REM-1A03 Relay, extended power supply
REM-1A04 Relay, 15I supply
REM-1A05 Relay, 15I supply
REM-1D01 Control module
REM-1D02 Control module
REM-1D03 Control module
REM-1D07 Control module
REM-1D08 Control module
REM-1D0A Control module
REM-3C01 Relay, preheating the diesel filter
REM-3F01 Relay, gas tank valve
REM-3F03 Relay, gas tank valve
REM-4A31 Fuel gauge sensor
REM-4A33 Fuel gauge sensor
REM-4A34 Fuel gauge sensor
REM-4A35 Fuel gauge sensor
REM-4A37 Fuel gauge sensor
REM-4A38 Fuel gauge sensor
REM-4A39 Fuel level, gas
REM-4A40 Gas temperature sensor
REM-4A41 Gas temperature sensor
REM-4A42 Gas pressure sensor
REM-4A43 Gas pressure sensor
REM-4A44 Fuel level, gas
REM-4A45 Fuel level, gas
REM-4A46 Fuel level, gas
REM-4A47 Fuel level, gas
REM-4A48 Fuel level, gas
REM-4F41 Communication PAM
REM-4F42 Back-up warning sensor 1
REM-4F42 Parking sensor 1
REM-4F43 Back-up warning sensor 2
REM-4F43 Parking sensor 2
REM-4F44 Back-up warning sensor 3
REM-4F44 Parking sensor 3
REM-4F45 Back-up warning sensor 4
REM-4F45 Parking sensor 4
REM-4F46 Parking sensor 5
REM-4F47 Parking sensor 6
REM-4F48 Parking sensor 7
REM-4F49 Parking sensor 8
REM-4F9A PAM
REM-4F9B Sensor, seat belt reminder
REM-4F9C Sensor, seat belt reminder
REM-4F9D Sensor, seat belt reminder
REM-5A31 Relay, rear A/C
REM-5A32 Relay, rear A/C
REM-6A01 Lock relay, central locking, rear left door
REM-6A02 Switch central locking motor
REM-6A03 Lock relay, central locking, rear left door
REM-6A04 Switch central locking motor
REM-6A04 Unlocking relay, central locking rear left door
REM-6A05 Switch locking motor child-proof lock
REM-6A05 Unlocking relay, central locking, rear left door
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SRS-00EB Steering column
SRS-00EC Driver’s seat belt (inertia) reel sensor
SRS-00EC Steering column
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SWM-0203 Steering wheel angle sensor
SWM-0204 Steering wheel angle sensor
SWM-0205 Steering wheel module (SWM)
SWM-0206 Steering wheel module (SWM)
SWM-0207 Steering wheel module (SWM)
SWM-0208 Steering wheel module (SWM)
SWM-0209 Steering wheel module (SWM)
SWM-020A Steering wheel module (SWM)
SWM-020B Steering wheel module (SWM)
SWM-020C Steering wheel module (SWM)
SWM-020D Steering wheel module (SWM)
SWM-020E Steering wheel module (SWM)
SWM-020F Steering wheel module (SWM)
SWM-0210 Communication control modules
SWM-0211 Communication control modules
SWM-0212 Communication control modules
SWM-0213 Communication control modules
SWM-0214 Communication control modules
SWM-0215 Communication control modules
SWM-0216 Communication control modules
SWM-0217 Communication control modules
SWM-E001 Communication control module
SWM-E003 Configuration fault
SWM-E010 Steering wheel module (SWM)

TCM
TCM-0001 Gear shift solenoid S1
TCM-0002 Gear shift solenoid S1
TCM-0003 Gear shift solenoid S1
TCM-0007 Gear shift solenoid S2
TCM-0008 Gear shift solenoid S2
TCM-0009 Gear shift solenoid S2
TCM-000B Shift solenoid S1
TCM-000C Shift solenoid S2
TCM-000D Line pressure solenoid STH
TCM-000F Line pressure solenoid STH
TCM-0010 Line pressure solenoid STH
TCM-0012 Lock-up solenoid SL
TCM-0013 Lock-up solenoid SL
TCM-0014 Lock-up solenoid SL
TCM-0015 Lock-up solenoid SL
TCM-0016 Control module
TCM-001C Kickdown switch (KD)
TCM-001E Transmission output speed sensor
TCM-001F Speed sensor. No signal
TCM-001F Transmission output speed sensor
TCM-0020 Transmission output speed sensor
TCM-0020 Vehicle speed sensor (VSS)
TCM-0022 Transmission speed sensor
TCM-0023 Engine speed (RPM) sensor
TCM-0023 Transmission input speed sensor
TCM-0023 Vehicle speed sensor
TCM-0024 Engine speed (RPM) sensor
TCM-0024 Tachometer sensor
TCM-0024 Transmission input speed sensor
TCM-0027 Back-up (reverse) gear
TCM-0028 1st gear
TCM-0029 2nd gear
TCM-002A 3rd gear
TCM-002B 4th gear
TCM-002C 5th gear
TCM-002E Lock-up function
TCM-002F Lock-up function
TCM-0036 Winter mode selector switch
TCM-0039 Gear position sensor
TCM-0042 Counter, oil quality
TCM-0042 Oil temperature
TCM-0043 Oil temperature sensor
TCM-0044 Oil temperature sensor
TCM-0045 Oil temperature sensor
TCM-0046 Oil temperature sensor
TCM-0048 Control module
TCM-0049 Control module
TCM-0050 Solenoid SL
TCM-0051 Solenoid SL
TCM-0052 Solenoid SL
TCM-0053 Lock-up pressure switch
TCM-0054 Lock-up pressure switch
TCM-0060 Control module
TCM-0061 Control unit
TCM-0062 Control unit
TCM-0070 Function, immobilizer
TCM-0071 Function, immobilizer
TCM-0075 Function, Shift-lock
TCM-0076 Function, Shift-lock
TCM-0081 Speed sensor
TCM-0081 Transmission output speed sensor
TCM-0081 Vehicle speed sensor (VSS)
TCM-0083 Speed sensor
TCM-0083 Transmission output speed sensor
TCM-0083 Vehicle speed sensor (VSS)
TCM-0087 Engine speed (RPM) sensor
TCM-0087 Tachometer sensor
TCM-0088 Transmission input speed sensor
TCM-0089 Engine speed (RPM) sensor
TCM-0089 Tachometer sensor
TCM-008D Lock-up pressure switch
TCM-0090 P position lock solenoid
TCM-0091 P position lock solenoid
TCM-0092 P position lock solenoid
TCM-0093 Communication gear lever control unit
TCM-0094 Communication gear lever control unit
TCM-0095 Communication gear lever control unit
TCM-0096 Gear selector module (GSM)
TCM-0096 Quickshift sensor
TCM-0097 Faulty software
TCM-0098 Faulty software
TCM-0099 Transmission control module (TCM)
TCM-0100 Ctrl module. Poor gear shifting quality
TCM-0100 Transmission
TCM-0101 Gear shift solenoid S3
TCM-0102 Gear shift solenoid S3
TCM-0103 Gear shift solenoid S3
TCM-0104 Gear shift solenoid S4
TCM-0105 Gear shift solenoid S4
TCM-0106 Gear shift solenoid S4
TCM-0107 Gear shift solenoid S5
TCM-0108 Gear shift solenoid S5
TCM-0109 Gear shift solenoid S5
TCM-0110 Gear shift solenoid S5
TCM-0111 Lock-up solenoid SLU
TCM-0112 Lock-up solenoid SLU
TCM-0113 Lock-up solenoid SLU
TCM-0114 Lock-up solenoid SLU
TCM-0115 Gear shift solenoid S3
TCM-0116 Throttle solenoid SLT
TCM-0117 Linear pressure solenoid SLT
TCM-0117 Throttle solenoid SLT
TCM-0118 Throttle solenoid SLT
TCM-0120 Control module
TCM-0121 Control module
TCM-0122 Control module
TCM-0122 Linear pressure solenoid SLS
TCM-0123 Control module
TCM-0123 Lock-up solenoid SLU
TCM-0124 Control module
TCM-0124 Linear pressure solenoid SLT
TCM-012A Neutral check
TCM-012B Neutral check
TCM-012C Neutral check
TCM-0190 Gear selector module (GSM)
TCM-0191 Gear selector module (GSM)
TCM-0192 Gear selector module (GSM)
TCM-0194 Gear selector module (GSM)
TCM-019B Gear selector module (GSM)
TCM-019C Gear selector module (GSM)
TCM-0212 Shift solenoid S3
TCM-0286 Hall sensor in gear selector
TCM-0287 Hall sensor in gear selector
TCM-0291 Hall sensor in gear selector
TCM-0292 Hall sensor in gear selector
TCM-029A Transmission control module TCM
TCM-0350 Transmission
TCM-0A01 Communication control module
TCM-0A11 Gear position sensor
TCM-0A12 Gear position sensor
TCM-0A30 Communication control module
TCM-0A31 Communication control module
TCM-0D00 Control module communication
TCM-0D01 Communication control module
TCM-0D02 Communication control module
TCM-0D10 Communication control module
TCM-0D13 Control module communication
TCM-0D14 Control module communication
TCM-0D15 Control module communication
TCM-0D16 Control module communication
TCM-0D18 Control module communication
TCM-E000 Control module communication
TCM-E003 Configuration fault
TCM-E003 Control module communication
TCM-E010 Power supply

**TMC**
TCM-0001 Antenna TMC
TCM-0002 Antenna TMC

**TRM**
TRM-1A03 Control module
TRM-1A04 Control module
TRM-8B01 Parking lamps
TRM-8B02 Parking lamps
TRM-8C01 Fog lamps
TRM-8C02 Fog lamps
TRM-8D01 Left-hand stop lamp
TRM-8D02 Left-hand stop lamp
TRM-8D03 Right-hand stop lamp
TRM-8D04 Right-hand stop lamp
TRM-8D05 Stop lamps
TRM-8E01 Back-up [reversing] lamp
TRM-8E02 Back-up [reversing] lamp
TRM-8F01 Left turn signal lamp
TRM-8F02 Left turn signal lamp
TRM-8F03 Right turn signal lamp
TRM-8F04 Right turn signal lamp
TRM-E001 Control module communication
TRM-E003 Configuration fault
TRM-E010 Power supply

**UEM**
UEM-0004 Siren