

Please read this bulletin understanding anytime there is a fuel system ECM update, it must be performed before replacing any catalytic converter for any reason. This update specifically addresses an issue where the vehicle may enter “open loop operation” for extended periods of time. A condition such as this is very likely to cause damage to the catalytic converter due to improper fuel control.

MODEL  
S-TYPE  
XJ,  
XK  
X-TYPE

ISSUE '3' CHANGES ARE HIGHLIGHTED WITH GRAY BACKGROUND

SECTION: 303

EMISSIONS RECALL J004: Revised On-Board Diagnostic System Software

<b>S-TYPE (X200)</b>	<b>VIN:</b>	<b>M94769 - N52047</b>
	<b>Model Year:</b>	<b>2004 - 2005</b>
<b>XJ (X350)</b>	<b>VIN:</b>	<b>G00584 - G49700</b>
	<b>Model Year:</b>	<b>2004 - 2005</b>
<b>XK (X100)</b>	<b>VIN:</b>	<b>A36874 - A48682</b>
	<b>Model Year:</b>	<b>2004 - 2006</b>
<b>X-TYPE (X400)</b>	<b>VIN:</b>	<b>D55322 - E19613</b>
		<b>E20262 - E99999</b>
		<b>J00001 - J28328</b>
	<b>Model Year:</b>	<b>2004 - 2007</b>

AFFECTED VEHICLE RANGE

CONDITION SUMMARY:

Situation:

A number of emission regulations non-compliance issues relating to the On-Board Diagnostic (OBD) system function covering thermostat diagnostic, calibration verification, in-use monitor performance ratio, and an emission issue relating to open loop smoothing (vehicle remains in open loop after fuel cut-off for prolonged periods) have been identified. In addition, a group of deficiencies have been identified within the OBD system function related to the evaporative leak diagnostic.

**NOTE:**

Customers should be informed that after the adaption clearing procedure and reconfiguration repair, the transmission shift quality will improve over time as the transmission adapts to the customer's individual driving requirements.

**Action:**

Dealers are to update the affected vehicles' Engine Control Module (ECM), and where applicable the Transmission Control Module (TCM), software as outlined in the Repair Procedure below. Consult the table containing the model years, VIN range, and repairs required prior to performing any software updates.

Owners will be notified by Customer Letter of this Recall with the request that they contact a dealer to have the update(s) performed. At the time of customer appointment, ensure that all outstanding service campaigns for each individual vehicle are identified and allocate sufficient time and resources to complete all campaigns. To identify repaired vehicles, US dealers must complete and install a Service Action 'Authorized Modifications' label on the radiator support panel. California dealers are required by the California Code of Regulations to complete a salmon-colored 'Vehicle Emissions Recall - Proof of Correction' certificate. This form must be provided to the customer for vehicles registered in California when the Recall work has been completed.

**CONFIGURE THE ENGINE CONTROL MODULE**

**CAUTION:** Engine coolant temperature must be lower than 50°C (122°F) [all models] before configuring the ECM.



**CAUTION:** A Midtronics PSC-550 Vehicle Power Supply must be connected to the vehicle battery during diagnosis.

1. Connect the Midtronics PSC-550 power supply to the vehicle battery.



**NOTE:** IDS must be loaded with software release DVD116 with Patch File 4 or later.

2. Connect the IDS to the vehicle and begin a new diagnostic session by entering the correct VIN for the current vehicle.
3. Follow the IDS prompts to read the vehicle configuration.
4. When prompted 'Do you wish to read diagnostic trouble codes?' select 'No'.
5. Select 'tick' to continue.
6. When Content Model is displayed, select the 'Vehicle Configuration' tab.
7. From the Vehicle Configuration menu, configure the ECM by selecting:
  - 'Module programming' > 'Configure existing module' > 'Petrol powertrain control module'.
8. Select 'tick' to continue, following all on-screen instructions to complete this task.
9. When completed, IDS will return to the Vehicle Configuration menu.

**VERIFY TRANSMISSION CONTROL MODULE SOFTWARE; CONFIGURE IF NECESSARY**

**CAUTION:** Transmission oil temperature must be lower than 80°C (175°F) [S-TYPE, XJ and XK] models or 50°C (122°F) [X-TYPE] before configuring the TCM.

1. From the Vehicle Configuration menu, verify the TCM software by selecting:
  - 'Module programming' > 'Configure existing module' > 'Transmission control module'.
2. Select 'tick' to continue.
3. Follow all on-screen instructions until IDS displays the current and proposed software levels.
  - If 'Software update required' is displayed, select 'tick' to reconfigure the TCM.
  - If 'No update required' is displayed select 'tick', then select 'X' in the pop-up window to abort the routine; continue to step 5
4. Follow all on-screen instructions to complete this task.
  - IDS will return to the Vehicle Configuration menu when completed.
5. Exit the current session.
6. Disconnect IDS and the Midtronics PSC-550 Vehicle Power Supply from the vehicle.
7. For US vehicles **only**: complete and install Service Action **Authorized Modifications** label to the radiator support panel.