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This Service Information bulletin supersedes S.I. B12 05 04 **dated September 2004.**

PERFORM THE PROCEDURE OUTLINED IN THIS SERVICE INFORMATION ON ALL AFFECTED VEHICLES BEFORE CUSTOMER DELIVERY OR THE NEXT TIME THEY ARE IN THE SHOP FOR MAINTENANCE OR REPAIRS.

NEW designates changes to this revision

SUBJECT

NEW Voluntary Emissions Recall 04E-A04: Reprogram DME for Oxygen Sensor Diagnostics on E53, E60, E63, E64, E65/66 with N62 and N73

MODEL

E53 4.4i with N62 from 01/2003 through 5/2004

E65/E66 with N62, N73, 745i, 745iL, 760iL from 01/2003 through 5/2004

NEW E60/63/64 with N62 from 08/2003 through 08/2004

SITUATION

The DME programming as originally installed, could cause the oxygen sensor diagnostic software to work incorrectly. In certain conditions, DME diagnostic software may fail to detect an oxygen sensor fault. In such a case, if exhaust emissions exceed the emission control limits, there will be no entry into the DME fault memory and the Service Engine Soon light will not be illuminated.

In order to remedy this situation, BMW is conducting a Voluntary Emissions Recall Campaign to reprogram the DME control module on all affected vehicles. With completion of this campaign, the software in the E65/E66 vehicle's control units will be updated as described in SI B61 03 04.

A copy of the customer letter is attached.

To minimize the customer inconvenience caused by this Recall Campaign, pick-up (and deliver after repair) the affected vehicle from customer's home and provide appropriate alternative transportation.

Customers will be impressed when you return their cars cleaned inside and out and with a full tank of gas. Reimbursement information for the vehicle fueling and valet costs may be found in the Warranty portion of this bulletin.

AFFECTED VEHICLES

NEW This Recall Campaign involves X5 4.4i, 745i, and 745iL vehicles with N62 engines and 760i/760iL vehicles with N73 engines, which were produced from 01/01/2003 through 05/26/2004. Also included are 545i, 645Ci and 645Cic with N62 engines produced from 08/2003 through 08/2004.

In order to determine if a specific vehicle is affected by this Recall, it will be necessary to utilize the "Service Menu" of the DCS (Dealer Communication System). Based on the response of the system, either proceed with the corrective action or take no further action.

The Chassis Number Ranges listed below are **only** for informational purposes and are not to be considered as the only deciding factor.

Model	Chassis Number Range
745i	DP68404 – DP73415
745iL	DS45296 – DS54391
760i	DC47004 – DC47013
760iL	DK10759 – DK11170
X5 4.4i	LV00047 – LV54391
NEW 545i	B087021 – B088625
NEW 545iA	B010703 – B114778
NEW 645Ci	B215011 – B215668
NEW 645CiA	B189025 – B191235
NEW 645Cic	B260020 – B260713
NEW 645CicA	B320023 – B322905

NEW CORRECTION

Check for installation of SD 92-277. If found, the campaign has been performed. No further action is required.

On E53 X5 4.4i vehicles, reprogram and recode the DME using DIS CD 39.0 or higher.

After DME programming is successfully completed, make sure that the ZF 6HP26 transmission control module (Mechatronic) software is at the latest level. Customer complaints of harsh shifting may result from the discrepancy between DME and EGS software levels.

Important:

Transmission temperature must remain below 50° C prior to start of programming.

Identify the transmission control unit via DIS/GT1 "Diagnosis Control unit Function; EGS Transmission control GS1904; Identification long".

In the "Program version" 12-digit line, identify the "N" number (5th digit from left side). If the number is "**N36**" or higher, the transmission software is already at the current highest level and EGS reprogramming is not required.

In case the version is **lower than "N36"** (e.g. N26 or N32), then reprogram the transmission control module using CD39 with second update, or higher.

To reprogram the transmission control module:

1. Connect the vehicle to a BMW approved battery charger.
2. Connect DISplus/GT1 loaded with CD39 with online 2nd update or higher.

3. Select: **BMW Coding/Programming**.
4. Select: **5 Programming**, then right arrow.
5. Select: **6 GKE Programming**, then right arrow.
6. Select: **1 Exchange control unit**, then right arrow.
7. Display appears **The ECU is determined by manual input**, then right arrow.
8. Select **First determine basic ECU by manual input and then program**, then right arrow.
9. Select: **GKE 1 Determine basic control unit**, then right arrow.
10. **Enter the basic GKE control unit part number** message is displayed. Enter: **7 544 720** , then right arrow.
11. Enter vehicle identification number as prompted.
12. **Enter the new part number of programmed GKE control unit** message is displayed. Enter: **7 549 952** , then right arrow.
13. At this point vehicle data and the required GKE software version numbers are stored in the tester for the automatic identification. Scroll to the left.
14. Select: **2 Program basic control module**, then right arrow and follow screen instructions.

IMPORTANT NOTE:

In case where additional transmission control module (EGS/GKE) programming is required, print out the EGS identification prior and after programming and attach these reports to the RO in the vehicle file. The Defect Code, Labor Operation and Labor Allowance for this additional work should be selected from the KSD.

On E65/66 745i/745iL/760i/760iL vehicles, update and recode the complete vehicle using CIP 12.0 or

higher.

On E60/63/64 545i/645Ci/645Cic vehicles, update and recode the complete vehicle using CIP 13.1 or higher.

To update the complete vehicle with CIP, follow instructions from SI B09 05 01. After the software update is completed, recode the complete vehicle according to procedure "E" from SI B09 05 01.

IMPORTANT NOTE:

On E60/63/64 vehicles **equipped with CCC**, to avoid or reduce TCU or CCC programming aborts, follow the special CIP programming procedure from TIS Measure B09 211 04 (November '04) prior to programming the complete vehicle with CIP via SSS (Software Service Station).

This procedure must be used until further notice.

LABEL INSTRUCTIONS

[S1204U04.JPG]

After the vehicle has been checked and corrected, obtain a label (SD 92-277) and with a ball point pen print your dealer code (5 digits) on the Recall Completion Label (see illustration). An initial quantity of 25 labels will be sent to all BMW automotive centers. Peel the label from its backing and affix it to the right (passenger) rear side of the hood in the engine compartment, close to windshield.

[S1296U31.JPG]

For California centers only: It is required by the California Code of Regulations that an executed orange "Vehicle Emission Recall - Proof of Correction" certificate (SD92-084, see illustration) be provided to each customer (for vehicles registered in the state of California) once the Recall on their vehicle has been completed.

Note: Additional labels can be ordered on line at BMW TIS.

WARRANTY INFORMATION

Reimbursement for this Recall will be via Campaign Entry.

Defect Code:	00 12 87 01 00	(for X5 4.4; 745i/745Li/760Li)
Work Package #1:	Reprogram/recode DME; vehicle in customer possession (retailed)	E53 X5 4.4i
Labor Operation:	00 55 071	
Labor Allowance:	6 FRU	
Work Package #2:	Reprogram/recode complete vehicle vehicle in customer possession (retailed)	E65, E66
Labor Operation:	00 55 072	
Labor Allowance:	12 FRU	
Work Package #3:	Reprogram/recode complete vehicle; Including Navigation system vehicle in customer possession (retailed)	E65, E66
Labor Operation:	00 55 073	
Labor Allowance:	15 FRU	
Work Package #4:	Reprogram/recode complete vehicle; Including programming CAS module vehicle in customer possession	E65, E66

	(retailed)	
Labor Operation:	00 55 074	
Labor Allowance:	13 FRU	
Work Package #5:	Reprogram/recode complete vehicle; Including programming Navigation and CAS vehicle in customer possession (retailed)	E65, E66
Labor Operation:	00 55 075	
Labor Allowance:	16 FRU	
NEW Work Package #6:	Coding/programming reimbursed via a Different Technical Campaign	E65, E66
Labor Operation	00 55 578	
Labor Allowance:	1 FRU	
NEW Defect Code:	00 12 98 01 00	(for 545i/645Ci/645Cic)
NEW Work Package #1:	Coding/programming reimbursed via a Different Technical Campaign	E60/63/64 (545i/645Ci/645Cic)
Labor Operation:	00 55 683	
Labor Allowance:	1 FRU	
NEW Work Package #2:	Reprogram/recode complete vehicle	
Labor Operation:	00 55 146	E60 (545i)
Labor Allowance:	13 FRU	
Labor Operation:	00 55 146	E63/64 (645Ci/645Cic)
Labor Allowance:	12 FRU	
NEW Work Package #3:	Reprogram/recode complete vehicle Including programming CAS module	
Labor Operation:	00 55 147	E60 (545i)
Labor Allowance:	14 FRU	
Labor Operation:	00 55 147	E63/64 (645Ci/645Cic)

Labor Allowance: 13 FRU

Note 1: Should the vehicle be affected at the same time by another repair in which programming of control units is also required, programming may be claimed only once.

Note 2: In the case where CIP requires the replacement of control modules, or additional programming because certain control modules failed to program correctly, print out the Measures Plan and Status Report/Final Report as described in the CIP programming procedure (B09 05 01), and attach these reports to the RO in the vehicle file. The Defect Code, Labor Operation, and Labor Allowance for this additional work should be selected from the KSD.

RE-FUELING COST

BMW of North America, LLC, will provide reimbursement to have the gas tank topped off once as required, for each vehicle affected by this Recall Campaign. Attach the appropriate receipt to the work order.

**Defect Code 85 99 00 66 NA Refuel X5 4.4, 745i/760i, 545i/645Ci/
645Cic affected by reprogramming
DME Recall**

Sublet: Actual cost to top off the fuel tank

Sublet code: 4

VALET COST

BMW of North America, LLC, will provide reimbursement for vehicle valet services (pick up & delivery) for each vehicle affected by this Recall Campaign. Attach the appropriate receipt to the work order.

**Defect Code 99 99 77 77 NA Valet Service for X5 4.4i, 745i/760i, 545/
645Ci/645Cic affected by DME
Reprogramming Recall**

Sublet: \$25.00

Sublet code: 4

RENTAL VEHICLES

Service Loaner vehicles, for this recall, should be utilized for alternative transportation needs to promote customer satisfaction.

Retailers participating in the Retailer Administered Customer Assistance Program and the Service Loaner Car Program may self-authorize claims for reimbursement of rental costs from independent rental agencies in certain situations. For more details refer to SI B01 07 03.

ATTACHMENTS

view PDF attachment [B120504Letter](#).

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