



Important!

Please give copies to all
your VW Technicians

Technical Bulletin

Subject: **Update Programming (Flashing) Control Module for Towing Sensor (J345) to Accept 7-Pin to 4-Pin Adapter** Group: **01**
Number: **03-07**

Model(s): **Touareg With Towing Accessory Package 2004 Date: **Sept. 24, 2003****
and Control Module Part No:7L0 907 383C

Condition

Trailer Control Module (J345) requires “Update - Programming” to correct warning light function when using a 7-pin to 4-pin adapter to connect to a trailer.

Service

Tool requirements

- ◆ VAS 5051 or 5052 (with Basis CD V.05.10 and the Brand CD V.05.35 or higher) with old diagnosis logs erased prior to start.
- ◆ “Update - Programming” (flashing) CD W42TOUAREGTLCD.

Note:

Additional copies of the “Update - Programming” CD (Literature Number W42TOUAREGTLCD) may be ordered from the Volkswagen Technical Literature Ordering Center at www.vw.ddsltd.com, or by calling 1-800-544-8021 from 8:00 a.m. to 8:00 p.m. EST Monday through Friday. This number can be dialed in both the United States and Canada.

Vehicle requirements

- ◆ Battery **MUST** have minimum no-load charge of 12.5V (failure to maintain voltage during update process can lead to Control Module failure) (you must use an approved battery charger to maintain battery voltage).
- ◆ VAS 5051: connected to vehicle and to 110V AC Power supply at all times during procedure.
- ◆ VAS 5052: connected to vehicle with battery voltage requirements met.



Important!

Please give copies to all
your VW Technicians

Technical Bulletin

- ◆ Any appliances with high electromagnetic radiation (i.e. mobile phones) switched OFF.
- ◆ No Stored DTC's, erase any stored DTCs.

CAUTION!

Non-observance of the following points may lead to Control Module failure!

VAS 5051 or 5052 must always be connected to the approved power supply at the approved voltages. Under no circumstances should the power supply be interrupted or the diagnostic connector unplugged during the flash procedure.

Any appliances with high electromagnetic radiation (i.e. mobile phones) must be switched OFF.

“Update - Programming” (flashing) procedure, checking for update match

- Switch ignition ON.
- Switch VAS 5051/5052 ON and insert flash CD into CD drive as soon as start screen appears.
- Select “Vehicle Self Diagnosis” mode.

NOTE:

You must return to the start screen before starting a new (flashing) session, otherwise the flashing CD will not be recognized by the tester.

- Select “Vehicle Self Diagnosis” mode.
- Select vehicle system “69-Trailer function”.
- ◆ Program checks software level.



Important!

Please give copies to all your VW Technicians

Technical Bulletin

| | |
|---|--|
| Vehicle Self-Diagnosis | 69 - Trailer function |
| Select diagnosis function | Control Module Part Number Ctrl. Mod. description / software level Coding XXXXX Dealership number XXXXX |
| 02 - Interrogate fault memory 03 - Final control diagnosis 04 - Basic settings 05 - Erase fault memory 06 - End output 07 - Code control unit 08 - Read data block 09 - Reading individual measuring value 10 - Adaption 11 - Log-in procedure Update - Programming | |
| <input type="button" value="Test Instruments"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/> | |
| 01-A187 | |

If software level DOES NOT match the level indicated on Flashing CD:

◀ ◆ “Update - Programming” (arrow) appears.

If software level of Control Module MATCHES level indicated by Flashing CD:

◆ “Update - Programming” (arrow) will not appear.

| | |
|---|--|
| Vehicle Self-Diagnosis | 69 - Trailer function |
| Select diagnosis function | Control Module Part Number Ctrl. Mod. description / software level Coding XXXXX Dealership number XXXXX |
| 02 - Interrogate fault memory 03 - Final control diagnosis 04 - Basic settings 05 - Erase fault memory 06 - End output 07 - Code control unit 08 - Read data block 09 - Reading individual measuring value 10 - Adaption 11 - Log-in procedure Update - Programming | |
| <input type="button" value="Test Instruments"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/> | |
| 01-A188 | |

PRIOR to performing procedure to “Update - Programming” (flash) the Control Module:

◆ ALL fault memories must be interrogated and erased.

Note:

Failure to erase ALL fault memories may cause “Update - Programming” (flashing) procedure to fail!

- ◀ – Select Diagnosis function “06 - End output”.
- Select Diagnosis function “00 - Collection services”.
- Select “Check DTC memory - complete system”. which will interrogate all fault memories.
- Erase ALL fault memories.



Important!

Please give copies to all your VW Technicians

Technical Bulletin

| | |
|---|---|
| Vehicle Self-Diagnosis | 69 - Trailer function |
| Select diagnosis function | Control Module Part Number ECM description and software level Coding XXXXX Dealership number XXXXX |
| 02 - Interrogate fault memory 03 - Final control diagnosis 04 - Basic settings 05 - Erase fault memory 06 - End output 07 - Code control unit 08 - Read data block 09 - Reading individual measuring value 10 - Adaption 11 - Log-in procedure Update - Programming | |
| <input type="button" value="Test Instruments"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/> | |
| 01-A187 | |

Once ALL fault memories have been erased:

- Select vehicle system "69-Trailer function".
- Select "Update - Programming" option at bottom of screen (arrow).

CAUTION!

Once "Update - Programming" function has been started, switching ignition OFF or disconnecting the diagnostic connector may completely destroy the Control Module.

| | |
|---|--|
| Vehicle Self-Diagnosis | 69 - Trailer function |
| Update - Programming | Control Module Part Number Ctrl. Mod. description / software level Coding XXXXX Dealership number XXXXX |
| Programming can be carried out. | |
| WARNING! The programme version stored in the control unit will be erased It will be programmed with the new version XXXX The erasing programming process will last roughly XX minutes The part number in the control unit identification may change. Vehicle specific data (coding, adaptation etc.) might be lost. It must be checked after successful programming After the continue button has been pressed the process cannot be cancelled. IMPORTANT - PLEASE NOTE: Switching ignition off or disconnecting the diagnostic connector during programming may completely destroy the control module! | |
| <input type="button" value="Test Instruments"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/> <input type="button" value="Continue"/> | |
| 01-A189 | |

"Update - Programming" (flashing), performing

After selecting "Update - Programming" function:

- By selecting the button, the programming procedure begins.

| | |
|-------------------------|--|
| Vehicle Self-Diagnosis | 69 - Trailer function |
| Update - Programming | Control Module Part Number Ctrl. Mod. description / software level Coding XXXXX Dealership number XXXXX |
| Programming in progress | |
| Data Transfer in % | |
| | |
| 01-A190 | |

Similar screen appears:

- ◆ Previous data in the Control Module is erased and new data is being transferred to the module from the flash CD.

Note:

Approx. flashing time is 3 minutes.



Important!

Please give copies to all your VW Technicians

Technical Bulletin

| | |
|---|---|
| Vehicle Self-Diagnosis | 69 - Trailer function |
| Update - Programming | Control Module Part Number |
| Programming in progress | Ctrl. Mod. description / software level |
| | Coding XXXXX |
| | Dealership number XXXXX |
| Data Transferred in % | |
| 0 | 100 |
| <p>Diagnosis bus faulty</p> <p>No voltage or voltage too low on diagnostic bus</p> <p>Is the battery voltage from the vehicle too low?</p> <p>Is the diagnostic connector connected to the vehicle?</p> <p>Repeat</p> <p>Cancel</p> | |
| 01-A191 | |

NOTE:

◀ If, during the "Update - Programming", a fault message is displayed:

- Confirm that VAS 5051 or VAS 5052 diagnostic tool power supply is adequate and that ALL appliances with high electromagnetic radiation (i.e. mobile phones) are switched OFF.
- The "Update - Programming" (flashing) process must then be started from the beginning using the "Repeat" button (arrow). DO NOT use the "Cancel" button.

IMPORTANT!

On NO occasion should the "Cancel" button be selected.

| | |
|---|---|
| Vehicle Self-Diagnosis | 69 - Trailer function |
| Update - Programming | Control Module Part Number |
| Programming log | Ctrl. Mod. description / software |
| Save result? | Coding XXXXX |
| | Dealership number XXXXX |
| Expanded identification old XXXXXXXXXX | Expanded identification new XXXXXXXXXX |
| Description and software level | 000X |
| Coding xxxxx | |
| Dealership number xxxxx | Dealership number xxxxx |
| Unit number 942 | Unit number 0 |
| Importer number 444 | |
| Programming status | |
| Status | No malfunction |
| Counter programming status | 1 |
| Counter successful attempts | 1 |
| Programming pre-condition | fulfilled |
| Go to | Print |
| Help | ▶ |
| 01-A192 | |

Once "Update - Programming" (flashing) is complete:

◀ ◆ Similar screen appears.

◆ New Control Module Part Number and updated software level is displayed at (arrows).

Once "Update - Programming" (flashing) is complete, the control module must be re-initialized.



Important!

Please give copies to all your VW Technicians

Technical Bulletin

| | |
|---|---|
| Vehicle Self-Diagnosis | 69 - Trailer function |
| Update - Programming | Control Module Part Number |
| | Ctrl. Mod. description / software level |
| <p>Switch ignition off and on again!</p> <p>To continue, the control unit requires an ignition off/on cycle</p> <p>DO not press button Continue until you have switched the ignition off and on again</p> <p>Continue</p> | |
| Go to | Print |
| Help | |
| 01-A193 | |

- Select the ► button.
- ◆ The tester requests you to switch the ignition OFF.
- Switch ignition OFF.

IMPORTANT!

- ◆ Wait at least 20 seconds before switching the ignition back ON (failure to wait at least 20 seconds may damage the Control Module).

After waiting 20 seconds:

- Switch ignition ON.

After switching ignition ON, the Control Module has been re-initialized, however, fault memories must now be erased.

- Select the "Continue button"

| | |
|---|---|
| Vehicle Self-Diagnosis | 69 - Trailer function |
| Update - Programming | Control Module Part Number |
| | Ctrl. Mod. description / software level |
| Erase fault memory | Coding XXXXX |
| | Dealership number XXXXX |
| <p>The programming causes fault records in related control units. The fault memories of all control units in the vehicle must be erased.</p> <p>Pressing the Continue button will automatically erase the fault memories.</p> <p>Pressing the Back button will not erase fault memories</p> | |
| ◀ | Go to |
| Print | Help |
| ▶ | |
| 01-A194 | |

Fault memories, erasing after "Update - Programming" (flashing)

Due to the CAN bus system, fault messages will be stored in various Control Modules during programming.

- ◆ To erase ALL fault memories:

- Confirm by selecting the ► button.

- ◆ Erase fault memories takes approx. 15 minutes.



Important!

Please give copies to all your VW Technicians

Technical Bulletin

| | |
|---|---|
| Vehicle Self-Diagnosis | 69 - Trailer function |
| Update Programming | Control Module Part Number |
| DTC memories are erased | Ctrl. Mod. description / software level |
| Function ended | Coding XXXXXX |
| | Dealership number XXXXX |
| Vehicle systems with erased fault memories: | |
| 47 - Sound system | |
| 6E- Roof Display-/ Control Head | |
| 08 - Air conditioning/heating electronics | |
| 68 - Wiper electronics | |
| 09 - Electronic central electrics | |
| 19 - Diagnostic interface for data-bus | |
| 29 - Light control left | |
| 39 - Light control right | |
| 69 - Trailer function | |
| Function ended! | |
| <input type="button" value="◀"/> | <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/> |
| 01-A195 | |

Once fault memories have been erased:

- ◀ ◆ Similar screen appears.
- ◆ Function ended appears at bottom of screen.
- Finish update of the Control Module by selecting the ◀ button.

| | |
|--|---|
| Vehicle Self-Diagnosis | 69 - Trailer function |
| Select diagnosis function | Control Module Part Number ◀ |
| | Ctrl. Mod. description / software level ◀ |
| | Coding XXXXXX |
| | Dealership number XXXXX |
| 02 - Interrogate fault memory | |
| 03 - Final control diagnosis | |
| 04 - Basic settings | |
| 05 - Erase fault memory | |
| 06 - End output | |
| 07 - Code control unit | |
| 08 - Read data block | |
| 09 - Reading individual measuring value | |
| 10 - Adaption | |
| 11 - Log-in procedure | |
| <input type="button" value="◀"/> <input type="button" value="Test Instruments"/> | <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/> |
| 01-A196 | |

- ◀ ◆ Similar screen appears.
- ◆ New Control Module Part No: 7L0 907 383E and updated software level "8254" will appear at arrows.
- ◆ Flash CD can now be removed from VAS 5051 or VAS 5052 Diagnostic tool.
- Print the "69-Trailer function" screen to verify Control Module update software level.
- ◆ VAS 5051 will print to printer immediately.
- ◆ VAS 5052 will hold the print until process is complete and then you may take the tester to the printer for printing the screen.
- Attach print to vehicle Repair Order.
- Select Diagnosis function "07 - Code control unit".
- Change coding from "1" to "2".
- Finish coding by selecting the ◀ button.



Important!

Please give copies to all your VW Technicians

Technical Bulletin

| | |
|---|---|
| Vehicle Self-Diagnosis | 69 - Trailer function |
| Select diagnosis function | Control Module Part Number |
| | Ctrl. Mod. description / software level |
| | Coding XXXXX |
| | Dealership number XXXXX |
| 02 - Interrogate fault memory 03 - Final control diagnosis 04 - Basic settings 05 - Erase fault memory 06 - End output 07 - Code control unit 08 - Read data block 09 - Reading individual measuring value 10 - Adaption 11 - Log-in procedure | |
| ◀ | Test Instruments |
| Go to | Print |
| | Help |
| 01-A197 | |

◀ ◆ Similar screen appears.

Note:

It is not generally necessary to encode the Control Module following the “update - Programming” (flashing procedure. However, you must set the readiness code.

- Set readiness code.

With readiness code set:

- Select “Go to” then select “Exit”.

| | |
|---|-------------------------------------|
| When procedure applies to vehicles with- in the New Vehicle Limited Warranty: | |
| Claim Type: | W2 |
| Part Identifier: | 9440 |
| Labor Operation: | 94409999 |
| Includes all operations necessary to complete Repair | Maximum A-Time allowed 60 TU |
| Claim Comment: Type “Per Technical Bulletin V010307” in comment section of Warranty claim. | |