



# Important!

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# Technical Bulletin

Subject: **Driver Steering Recommendation (DSR) Activation and  
Software Programming for DTCs**

Group: **48**

Number: **06-01**

Model(s): **New Jetta  
new GTI, Passat, Passat Wagon**

**2005 ➤ 2006  
2006 ➤ 2007**

Date: **Feb. 17, 2006**

## Condition

- ◆ DTC 01309 008 No communication with J500 stored in ABS module after power steering rack replacement.
- ◆ DTC 00003 014-control module faulty
- ◆ DTC 00578 008-torque sensor implausible
- ◆ DTC 02614 014- Steering box faulty

Vehicle Self-Diagnosis	44 - Steering assistance
10 - Adaption	Component part number _____
Read and test channel 3	Component description _____ 1606
Dealership number XXXXX	
OFF	
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">0 1 8</div> <div style="flex-grow: 1; border: 1px solid black; background: linear-gradient(to right, black 40%, white 40%);"></div> </div> <div style="display: flex; justify-content: flex-end; margin-top: 5px;"> <input type="button" value="Keyboard"/> <input type="button" value="Save"/> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="?"/> <input type="button" value="⚠"/> </div> <div style="text-align: right; margin-top: 5px;">48-A085</div>	

## DSR Activation using VAS 5051 or VAS 5052 Self Diagnosis

After replacement of Electromechanical Power Steering Rack Fault code 01309 008 No communication with J500, may be stored in ADW 03 Brake Electronics. Activate the DSR feature in ADW 44 Steering Assistance as follows:

◀ – Select function 10-Adaptation and enter channel 3.

Vehicle Self-Diagnosis	44 - Steering assistance
10 - Adaption	Component part number _____
Read and test channel 3	Description and software level XXXX
Dealership number XXXXX	
ON	
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">0 1 8</div> <div style="flex-grow: 1; border: 1px solid black; background: linear-gradient(to right, black 40%, white 40%);"></div> </div> <div style="display: flex; justify-content: flex-end; margin-top: 5px;"> <input type="button" value="Keyboard"/> <input type="button" value="Save"/> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="?"/> <input type="button" value="⚠"/> </div> <div style="text-align: right; margin-top: 5px;">48-A086</div>	

◀ – Once in channel 3 you can use either the slide bar or keyboard, and select 0.

- ◆ Once zero is selected, the DSR function is turned ON and fault code 01309 008 Power Steering Control Module J500 will clear.



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## **DTC 01309 008 No communication with J500 stored in Instrument Cluster and Gateway control module.**

In some instances when DTC 01309 008 is stored in the Instrument cluster and Gateway control module it can be related to a wiring issue. Diagnose the suspected circuits using a voltage drop test.

The following have been identified as possible causes:

- Poor ground contact on the left frame, below headlight
- Poor power supply connection at the 80amp fuse of the underhood power distribution center
- Poor connections, wiring damage (including CAN Bus wiring) due to rodent infestation



### **Note:**

*If cause is not a manufacturer's defect, repair is not covered under warranty policy.*

## **DTC 00578 008-torque sensor implausible signal.**

- ◆ Follow normal Guided Fault Finding diagnostics and replace steering rack **IF or WHEN** prompted. Use applicable SRT for steering rack replacement.



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### DTCs 02614 014 or 00003 014 Stored

DTC 00003 014 may occur without apparent reason, while DTC 02614 014 may occur after a battery replacement, a jump start of the vehicle or after a discharged battery. Both DTCs will not be erasable.



#### Note:

*The VAS 5051 or VAS 5052, up to Brand CD V.08.65.01, will recommend to replace the power steering rack for this DTC. **REPLACEMENT OF THE POWER STEERING RACK IS NOT NECESSARY.** Instead of replacing the power steering rack the Brand CD V.08.65.01 (or newer) has the capability to program the following software update with flash CD W42STEERINGUPDATE.*

- 1K1 909 144 G software 1401 program to software 1403
- 1K1 909 144 H software 1502 program to 1504



#### Note:

*Bulleted points listed above are for hardware and software identification ONLY and are not available through the parts system.*

*Hardware and software level's not listed are NOT EFFECTED by DTC 02614 014 and do not have to be reprogrammed.*

### Update Programming (flashing)



#### Tip:

*Additional copies of the "Update - Programming" CD (Literature Number W42STEERINGUPDATE) may be ordered from the Volkswagen Technical Literature Ordering Center at [vw.dds1td.com](http://vw.dds1td.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.*



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## Vehicle requirements

- ◆ Battery **MUST** have minimum no-load charge of 12.5V (failure to maintain voltage during update process can lead to steering system module failure) (it is advised to use an approved battery charger to maintain battery voltage).
- ◆ VAS 5051 or VAS 5052: connected to vehicle with battery voltage requirements met.
- ◆ Any appliances with high electromagnetic radiation (i.e. mobile phones) switched OFF.



### Tip:

*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.*



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Vehicle Self-Diagnosis	
Select vehicle system	
43 - Brake booster assistance 53 - Parking brake 63 - Drivers side boarding assistance 73 - Drivers side boarding assistance 04 - Steering position 14 - Suspension electronics 24 - Traction control 34 - Self-leveling suspension 44 - Steering assistance 54 - Rear spoiler 64 - Stabilizers	▲ ▼
Test Instruments	Go to Print ? ⚠
48-A087	

– Insert the C/D Part No: W42STEERINGUPDATE distributed with this technical bulletin.

– Navigate to Vehicle Self Diagnosis AW 44-Steering assistance.

Vehicle Self-Diagnosis	
Select diagnosis function	44 - Steering assistance Component part number Description and software level XXXX Dealership number XXXXX
Display all diagnostic functions 02 - Interrogate fault memory 03 - Final control diagnosis 04 - Basic settings 05 - Erase fault memory 06 - End output Coding subbussystem 08 - Read Measuring Value Block 10 - Adaption 11 - Coding II 16 - Access permission Update - Programming	◀ ▶
Test Instruments	Go to Print ? ⚠
48-A088	

– Select Update Programming and press the forward arrow.

Vehicle Self-Diagnosis	
Update - Programming	44 - Steering assistance Component part number Description and software level XXXX Dealership number XXXXX
Programming can be carried out.	
<b>Note:</b> 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. <b>IMPORTANT -- PLEASE NOTE:</b> Switching ignition off or disconnecting the diagnostic connector during programming may completely destroy the control module!	
◀	Go to Print ? ⚠ ▶
48-A089	

– Follow programming instruction until complete, switch ignition Off and then On per instruction.



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Vehicle Self-Diagnosis	44 - Steering assistance
Update - Programming	Component part number
	Description and software level XXXX
Erase fault memory	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>	
<div style="text-align: right;">↓</div>	
<div style="display: flex; justify-content: space-between;"> <span>◀</span> <span>Go to</span> <span>Print</span> <span>?</span> <span>⚠</span> <span>▶</span> </div>	
48-A090	

◀ – Erase DTCs by selecting the forward arrow.

Vehicle Self-Diagnosis	44 - Steering assistance
Update Programming	Component part number
	Description and software level XXXX
DTC memories are erased	Dealership number XXXXX
Function ended	
<p>03 - Brake electronics</p> <p>44 - Steering assistance</p> <p>15 - Airbag</p> <p>25 - Immobilizer</p> <p>1C - Vehicle position detection</p> <p>16 - Steering wheel electronics</p> <p>36 - Seat/steering column adjustment, driver-side</p> <p>46 - Convenience system central module</p> <p>17 - Dash panel insert</p> <p>47 - Sound system</p> <p>09 - Electronic central electrics</p> <p>19 - Diagnostic interface for data-bus</p> <p>0F - Radio-Tuner-digital</p>	
Function ended!	
<div style="display: flex; justify-content: space-between;"> <span>◀</span> <span>Test Instruments</span> <span>Go to</span> <span>Print</span> <span>Help</span> </div>	
48-A091	

◀ – Verify that the new software level is listed in the top right corner of the screen.

Vehicle Self-Diagnosis	44 - Steering assistance
Update Programming	Component part number
	Description and software level XXXX
Programmin log	Dealership number XXXXX
Save results?	
Expanded identification old	Expanded identification new
Component part number	Component part number
Description and software level	Description and software level
Dealership number XXXXX	Dealership number XXXXX
Unit number	Unit number
Importer number XXX	Importer number XXX
Programming status	
Status	no malfunction
Counter programming attempts	1
Counter successful attempts	1
Programming pre-condition	fulfilled
Function ended!	
<div style="display: flex; justify-content: space-between;"> <span>◀</span> <span>Test Instruments</span> <span>Go to</span> <span>Print</span> <span>Help</span> </div>	
48-A092	

◀ Programming complete.



## Note:

*If DTC 00003 014 is still not erasable after programming is complete, the power steering rack must be replaced. Use applicable SRT.*



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When procedure applies to vehicles with-  
in the New Vehicle Limited Warranty, use  
the following:

Claim Type:	W2
Part Identifier:	4835
Damage Code:	4835 40 000 1
Labor Operation: Includes all steps to re-program (flash)	48352540 30TU
Labor Operation: Includes all steps for DSR activation	48352542 20TU
Labor Operation: Wiring Diagnosis and Repair	Use applicable A-Time
Diagnostic Time:	No Diagnostic Time Allowed
Claim Comment: Type "As per Technical Bulletin V480601" in comment section of Warranty Claim	