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Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Golf	2010 – 2013	All	All	All	All
GTI	2010 – 2013	All	All	All	All
Jetta SportWagen	2010 – 2013	All	All	All	All
Jetta	2011 -2013	2.0L (CBFA, CCTA, CPLA, CPPA) 2.0L TDI (CJAA)	All	All	All
Beetle	2012-2013	2.0L (CBFA, CCTA, CPLA, CPPA)	All	All	All
Passat	2012-2013	3.6L (CDVB) 2.0L TDI (CKRA)	All	All	All

Condition

48 13 03 July 15, 2013 2030353 Supersedes T. B. V481302 dated March 18, 2013 to include additional model year applicability and update the software part and version numbers.

Poor Power Steering Assistance, DTCs 16344 014, 16353 014, 16355 014, 02614 014 Stored in Power Steering Control Module J500

Customer may comment:

- Steering stiff at engine start up.
- Yellow power steering warning light on.
- Red power steering warning light on.

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The customer concern may or may not be duplicated, and the following Diagnostic Trouble Codes (DTCs) are present in the power steering control module (J500).

DTC	Description
16353 014	Control module faulty
16344 014	Control module faulty
16355 014	Control module faulty
16347 014	Control module faulty
16346 014	Control module faulty
02614 014	Control module faulty
02391 011	Terminal 30 reference open circuit
03803 005	Steering angle sensor for power-assisted steering, no or incorrect basic setting/adaptation
03803 000	Steering angle sensor for power-assisted steering, no or incorrect basic setting/adaptation



Note:

The diagnostic trouble codes (DTC) logged in the vehicle systems are not limited to the faults listed above. Follow the chart below that list the part numbers and the software level to determine if the service solution applies.

Technical Background

Voltage drop in power steering control unit (J500) at start up or during steering operation.

Production Solution

Improved software.

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Service



Tip:

The software update takes place in two steps. DO NOT end the program too early. **Before the update**, record and save adaptation channels 3, 4 and 9 in address word 44 using Vehicle Self Diagnosis (VSD). The information will be needed for the steering module (J500) basic setting adaptation procedure when the update is completed.

The software versions listed in the following table were up-to-date when this TSB was published. Further software versions may have been released since.

Update-Programming Procedure:



Tip:

To Update-Programming using SVM, **review and follow** instructions in **Technical Bulletin Instance 2014603** "Software Version Management".

The SVM Process must be completed in its entirety so the database receives the update confirmation response. A warranty claim may not be reimbursed if there is no confirmation response to support the claim.



Note:

Prior to launching VAS-PC or ODIS application and starting control module update process, confirm tester screen saver and power settings in accordance with Special Tools and Equipment - Service Information Circular # VVT-12-02. Failure to do so may result in the tester entering power save mode during data transfer, and subsequent control module failure.

When using the VAS 5054A wireless transmitter head for a flash procedure, please connect a USB cable between the transmitter head and the tester. Failure to do so may lead to errors during the flash procedure.


VAS tools must only be used with their power adapters plugged in. Under no circumstances should they be used on battery power alone during the programming procedure.

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- Update the power steering control module (J500) using the SVM Unit code as listed in the table below:

Old Software Part No.	Old Software Version	New Software Part No.	New Software Version (or higher)	SVM Unit Code
1K0 909 144 L	2901	1K0 909 144 R	3501	3143
1K0 909 144 J	3001	1K0 909 144 R	3501	3143
1K0 909 144 M	3201	1K0 909 144 R	3501	3143
1K0 909 144 N	3301	1K0 909 144 R	3501	3143
1K0 909 144 P	3305	1K0 909 144 R	3501	3143

The procedure can be found in GFF under Functions/ Component Selection, Software Version Management, Adapting Software.

 WARNING:
<p>Radiator Fan(s) may cycle ON high speed during the Update Process! There is a risk that personal injury may result if contact is made with spinning fan blades.</p> <p>Keep hands and all objects away from Radiator Fan(s) during Update Process!</p>

 **Tip:**

The SVM Process must be completed in its entirety so the database receives the update confirmation response. A warranty claim may not be reimbursed if there is no confirmation response to support the claim or action is carried out that is not explicitly stated in the Technical Bulletin.

- After the update is completed, using GFF, perform basic setting steering angle sensor – G85 and Adaptation of Electromechanical steering under address word 44 – Steering.

Check for DTCs in Brake electronics - 03 and if DTCs 00778 004 and 01309 008 is present, follow the GFF systems test plan to reset the module. If the basic settings and adaptation procedures are completed using Vehicle Self Diagnosis (VSD), the adaptation values retrieved from channels 3, 4 and 9 in address word 44 using Vehicle Self Diagnosis (VSD) will be needed to complete the operation.



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Warranty

To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual ¹⁾					
Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
Golf	2010 – 2013	All	All	All	All
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SAGA Coding					
Claim Type:		Use applicable Claim Type ¹⁾			
Service Number:	Damage Code	HST	Damage Location (Depends on Service No.)		
4835	039	--	Use applicable when indicated in ElsaWeb (L/R)		



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Parts Manufacturer	Golf, GTI	WVO ²⁾
	Jetta, Jetta SW, Beetle	3ME ²⁾
	Passat	TX6 ²⁾
Labor Operation ³⁾ : Battery Charge		27068950 = 10 TU
Labor Operation ³⁾ : Update Programming		48352599 = 40 TU
Causal Part		Select labor operation 48352599
Diagnostic Time ⁴⁾		
GFF Time expenditure	01500000 = 20 TU max.	YES
Road Test	01210004 = 10 TU	YES
Technical Diagnosis	01320000 = 00 TU max.	NO
Claim Comment: Input "As per Technical Bulletin 2030353" in comment section of Warranty Claim.		
<p>¹⁾ Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only</p> <p>²⁾ Code per warranty vendor code policy.</p> <p>³⁾ Labor Time Units (TUs) are subject to change with ELSA updates.</p> <p>⁴⁾ Documentation required per Warranty Policies and Procedures Manual.</p>		

Required Parts and Tools

No special parts required.

Tool Description	Tool No:
Midtronics Battery Tester/Charger	InCharge 940 (INC-940)
VAS Diagnostic Tool	VAS 5051B, 6150X, 6160 VAS-PC Ver. Base CD V19.01.00 and Brand V19.22.00 or higher ODIS Ver. 1.2.1



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Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.