UPDATE Technical Bulletin

January 13, 2016
45D7 UPDATE - TPMS/ESC Software (NVLW)

NOTE:

- Perform this UPDATE on all applicable vehicles within New Vehicle Limited Warranty.
- It is MANDATORY to perform UPDATES on all applicable vehicles in dealer inventory PRIOR TO RETAIL SALE.
- Inform customers that this UPDATE will be available free of charge as long as their vehicle is within the Warranty parameters outlined in this UPDATE.

NOTE:

Required DMS Wording/Programming Text (SAGA claim comments): UPDATE Code 45D7 TPMS/ESC Software (NVLW)

Model(s)	Year	Engine Code	Trans. Code
Jetta	2014-2015	All	All
Beetle, Beetle Convertible	2014-2015	All	All

REVISION HISTORY		
Revision	**Date**	**Purpose**
1	September 25, 2014	Original publication
2	October 1, 2014	• Changed warranty parameter to Limited New Vehicle Warranty. • Corrected software references for ABS and provided work instruction details for manually coding the ABS module.
3	January 13, 2016	• Updated warranty parameter in the condition section to NVLW.

Condition

This update has been proactively released to prevent illumination of the TPMS and/or ESC light at vehicle start-up and/or under low speed (e.g. <7mph) driving conditions after vehicle start-up. The condition goes away immediately after start up or at speeds greater than 7 mph.

This UPDATE is in effect until removed.

Vehicle must meet all of the following criteria:

- Procedure is valid only for vehicles that show the 45D7 code in Elsa, Campaign/Action Information screen _on the day of repair_.

UPDATE Technical Bulletin

- If the vehicle is sold it must be within the New Vehicle Limited Warranty.
- Procedure must be performed within the allotted time frame stated in this UPDATE.
- Procedure must be performed on applicable vehicles in dealer inventory prior to sale.

Technical Background

Certain previous ABS software versions allowed a CAN bus diagnostic routine to be triggered for ESC and TPMS under a unique starting sequence while the steering angle sensor is not yet ready. This may cause illumination of the TPMS and/or ESC light at vehicle start-up and/or under low speed (e.g. <7mph) driving conditions after vehicle start-up. The condition goes away immediately after start up or at speeds greater than 7 mph. The following DTC's may also be present in the ABS (DA03) module:

Diagnostic Address	DTC	Error Type	Error Status
03 – Brake Electronics	00778 – Steering Angle Sensor	No Signal / Communication	Intermittent
03 – Brake Electronics	01325 – TPMS Control Module	No Signal / Communication	Intermittent

⚠ **Note:** ABS remains functional during this condition.

Production Solution

Implemented into production CW36.

Service

NOTE:
- *Elsa is the only valid inquiry/verification source. Check Elsa on the day this vehicle UPDATE will be performed to verify vehicle eligibility for the UPDATE. Status must show "open". Attach an Elsa printout showing the "open" status to the repair order.*
- *If this UPDATE appears to have already been performed but the code still shows open in Elsa, contact Warranty before proceeding further. Another dealer may have recently performed this UPDATE but not yet entered a claim for it in the system.*
- *Elsa may also show additional open action(s); if so, inform your customer - this work can be done while the vehicle is in for this UPDATE.*
- *Contact the Warranty Helpline (U.S.) or the Warranty Campaign Specialist (Canada) if you have any questions.*

UPDATE Technical Bulletin

Applicable Criteria ID (s)	Campaign/Action Status
01	Open

EXAMPLE

Step 1:
- Enter the VIN in Elsa and proceed to the "Campaign/Action" screen

ℹ️ Tip: On the date of repair, print this screen and keep a copy with the repair order

⇐ Ensure that the Status is "Open" <arrow 2>

- Note the Applicable Criteria ID

  <arrow 1> for use in determining the correct work to be done and corresponding parts associated

Step 2:
- According to the table below, check and if necessary, update software:

  ODIS – enter Start Diagnosis=> Special Functions=> Adapt Software test plan.

Update Programming Procedure

ℹ️ **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.

UPDATE Technical Bulletin

Note:

Prior to launching VAS Diagnostic Device application and starting control module update process, confirm tester screen saver and power settings are off.

Failure to do so may result in the tester entering power save mode during data transfer, and subsequent control module failure.

When using any tester in conjunction with a 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. **Also, ensure that the tester is not communicating via Bluetooth as the Bluetooth protocol is not a robust data transfer environment for the flash process. Control module failures caused by flashing via Bluetooth <u>will not</u> be covered.**

All Volkswagen scan tool devices 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.

Critical Warning: The Midtronics Battery Charger **must** be connected to the vehicle battery for the duration of the programming, to ensure the battery state of charge remains above 12.5 volts during the update process. If the battery drops below 12.5 volts, the programming could fail which may result in damage to the control module.

Control modules damaged by insufficient voltage will not be covered.

The technician should verify the vehicle voltage prior to starting the update process, and should monitor the voltage for the duration of the update.

WARNING:

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

1. Connect battery charger and scan tool to vehicle and navigate to Guided Fault Finding. After control module interrogation is complete, record ABS coding information as shown below <rectangle>.

```
Address : 03    System name : 03 - ABS/EDS/ASR/ESP Mark 60 EC    Protocol versions : KWP20

 - Identifikation:
Hardware part number :        1K0907379BM
Part number :                 1K0907379BM
Hardware version number :     H46
Software version number :     0164
Build group number :
Code :                        A14B200C512B08FB850C04EA8A1A1061A1100012
Ability to flash :            flashable
System name :                 ESP MK60EC1

 - Ereignisspeichereinträge:

   DTC memory entry
   Number :                   VAG02214:  Tire pressure warning
   Error type 1 :             Lower limit not reached
   Error type 2 :             Intermittent

      - Standard ambient conditions:
        Date :                9/4/14
        Time :                9:21:10 PM
        Mileage (DTC) :       2738
        Priority :            2
        Frequency counter     1
```

2. Select Diagnosis=>Special Functions=>Adapting Software=>Perform Test.
3. Update the ABS Control Module using the SVM Unit code as listed in the table below:
4. If necessary, refer to instructions in TB, 2014603: *00 Software Version Management (SVM), operating instructions.*

| Model	Engine	Old Software Part No.	Old Software Version	New Software Part No.	New Software Version (or higher)	SVM Action Code
All	All	1K0907379BM	0163, 0164	1K0907379BS	0166	**337B**
		1K0907379BS	0165			

5. After the software update, the following four fault codes may appear:

    a.   VAG01279: Longitudinal acceleration sensor
    b.   VAG00778: Steering angle sensor
    c.   VAG01423: Lateral acceleration sensor
    d.   VAG01435: Brake pressure sensor 1

6. For the reason above, it may be necessary to perform on-line coding of the ABS module and perform the following basic settings:

    a.   G85
    b.   G200
    c.   G201
    d.   G251

> **Tip:** If on-line coding is not successful, carry out manual coding of the ABS as shown below.
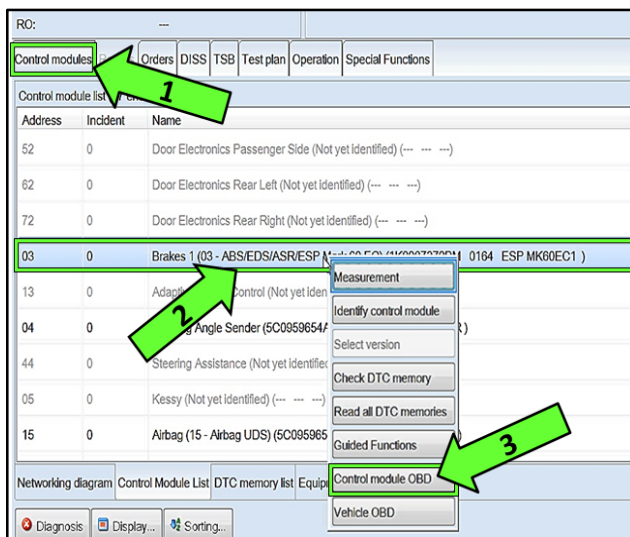
Manual ABS coding steps:
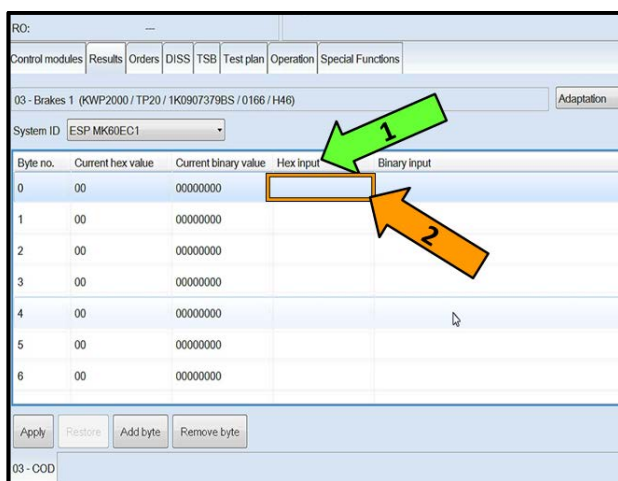
⇐ From the Control modules tab <arrow 1>, right click on 03 for ABS <arrow 2>.

⇐ Select Control module OBD <arrow 3>.

UPDATE Technical Bulletin
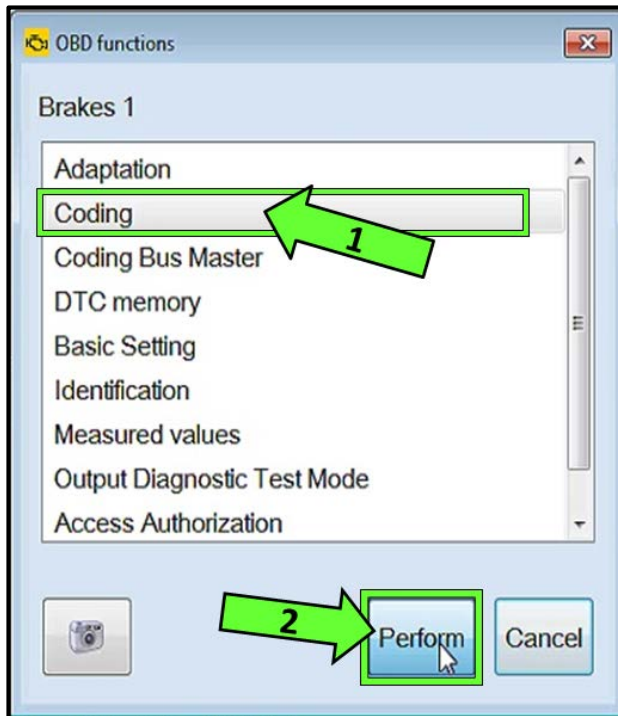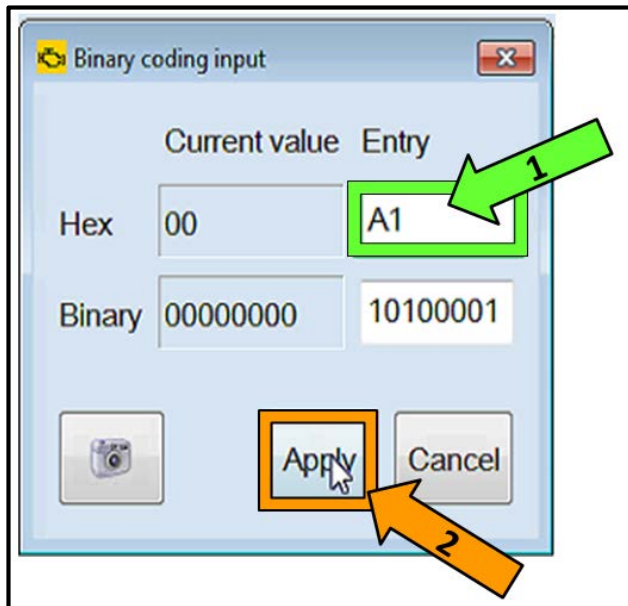

⇐ Select Coding <arrow 1>, then select Perform <arrow 2>.
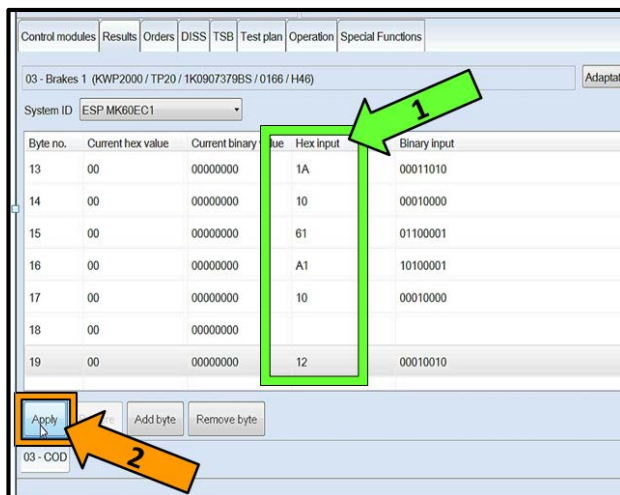

⇐ Under Hex Input <arrow 1>, select the blank box <arrow 2> that lines up with the byte to be changed (e.g. "0" shown).

UPDATE Technical Bulletin

Tip: The binary coding input pop-up window allows for coding corrections.

⇐ In the Hex Entry box <arrow 1>, input the Hex value for the byte to be changed, and then click Apply <arrow 2>.

• Repeat for all bytes that need to be changed.

⇐ Validate that all Hex Input data <arrow 1> matches original coding.

⇐ Select Apply <arrow 2>.

Tip: Basic settings must be set for G85, G200, G201, G251 after coding is applied.

7. Once the above coding and basic settings are carried out, exit GFF sending the diagnostic protocol on-line when prompted.

Work Complete

UPDATE Technical Bulletin

Warranty

Claim Entry Procedure	Enter your claim immediately upon completion of the UPDATE. Claims will only be paid for vehicles that show this UPDATE code open in Elsa on the day of repair. To help ensure prompt and proper payment, attach the screen print to the repair order.
Claim Help	**U.S. dealers** - Contact the **Warranty Helpline** toll-free at 1-866-306-8447 for help with claim entry. **Canadian dealers** - Contact your Warranty Campaign Specialist. For contact information, please proceed to "ServiceNet – Warranty/Contact Information/Campaigns – "Warranty Campaign Specialist."
Required Customer Notification	Ensure customers are aware of all work performed on the vehicle by recording the information on the repair order. Attach a copy of the *Vehicle UPDATE Fact Sheet* to the customer's copy of the repair order and take the time to explain this UPDATE to your customer.

SAGA Code 45D7 Claim Entry Procedure
Check Elsa to confirm that this UPDATE code is open *on the day of repair*.

Service No.: 45D7
 Damage Code: 0099
 Parts Manufacturer/Vendor Code: 3ME
 Claim Type
   Sold vehicle = 7 10
   Unsold vehicle = 7 90

Accounting Instructions   **Criteria I.D. 01**   **Check/UPDATE present. No further work required.**   **Repair operation:**   0183 00 99   10 TU   -- OR --   **Check ABS software, new software available. Update ABS software.**   **Repair operation:**   4560 25 99   60 TU   *There is NO reimbursement for wash or loaner vehicle!*
If the vehicle is outside of the specified warranty period OR if customer refused repairs.   **U.S. dealers**: Submit the request through WISE under the Campaigns/Update/Recall Closure option.   **Canadian dealers**: Fax the Repair Order to Warranty at (905) 428-4811 and provide VIN, applicable Service Number, Customer Information, Dealer Number and Date.

UPDATE Technical Bulletin

Required Parts and Tools

Tool Description	Tool No:
Always ensure the ODIS Service application and brand diagnostic data versions are up-to-date prior to performing SVM.	VAS Diagnostic Device

Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check Elsa for the most current version of this document.

UPDATE Technical Bulletin

UPDATE FACT SHEET – UPDATE Code 45D7

Dear Volkswagen Customer,

Today we performed UPDATE code 45D7 on your vehicle. This UPDATE installs the latest software, and was performed for you free of charge.

Volkswagen periodically makes updates like this available in order to ensure our customer's continued satisfaction with the quality of their Volkswagen vehicles.

We at Volkswagen are committed to providing our customers with reliable, quality products that are a pleasure to drive and own. If you should ever have any questions or vehicle concerns, your authorized Volkswagen dealer will be pleased to assist you.

Thank you for driving a Volkswagen!