

Technical Service Bulletin



90 Sporadically the ignition cannot be switched on

90 15 54 2040593/1 May 11, 2015.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6	2005 - 2011	All	Not Applicable
Q7	2007 - 2015	All	Not Applicable

Condition

- Customer reports that the ignition sporadically cannot be switched on.
- One of the following conditions is found through guided fault finding (GFF):
 - **DTC 00456** (Access/start control module -J518- no communication) is found in several control modules.
 - The access/start authorization control module, J518 (address word 05), identifies itself with implausible data (for example: O?O?O?O?O?O?)



Tip: If no communication is possible, activate the bus by switching on the hazard warning lights. It should now be possible to carry out a diagnosis.



Note:

If **DTC 00288** (Steering column lock actuator-N360, faulty) is logged in the access/start authorization control module, J518 (address word 05), this bulletin does not apply. Proceed according to GFF.

Technical Background

Incorrect software.

Production Solution

Optimized software.

Service

1. Reset the access/start authorization control module, J518 (address word 05), by removing and reinstalling the 30 power fuse for the control module:

- **For A6:** Remove green 30A fuse SB42 from fuse box instrument panel left (Figure 1). Reinstall the fuse after 30 seconds.
- **For Q7:** Remove green 30A fuse SB10 from fuse box instrument panel left (Figure 2). Reinstall the fuse after 30 seconds.

After the reset, the ignition can be turned on.

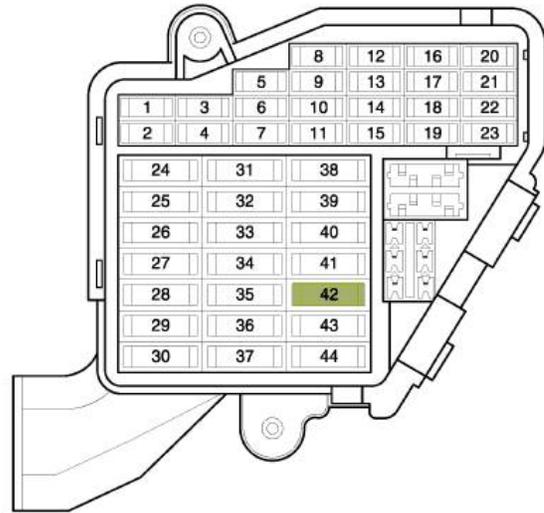


Figure 1. SB42 fuse location in A6 vehicles.

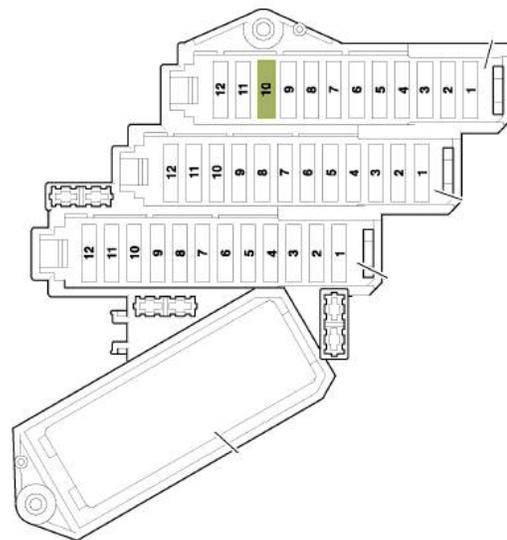


Figure 2. SB10 fuse location in Q7 vehicles.

2. Before proceeding, use ODIS to determine the hardware part number of the access/start authorization control module, J518 (address word 05):

- First, right-click **Address 05**, then click **Control module OBD** from the pop-up menu (Figure 3).
- Next, in the OBD functions menu, select **Identification**, then click **Perform** (Figure 4).
- Scroll to the bottom of the lower results window to see the software version and hardware part number (Figure 5).

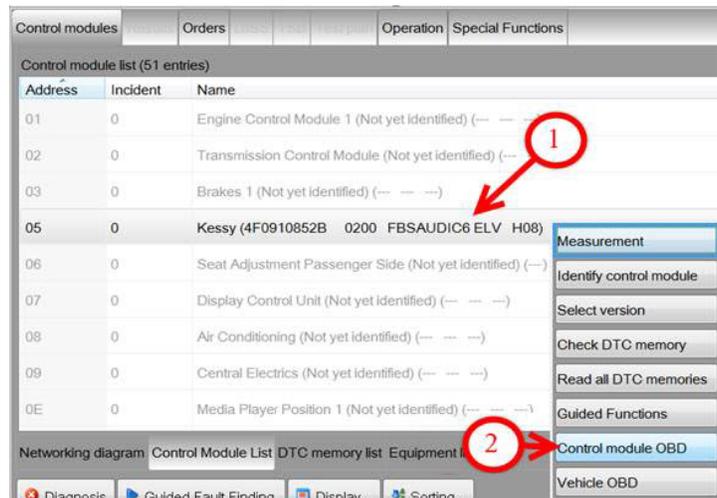


Figure 3. Right-click **Address 05** (1), then click **Control module OBD** (2).

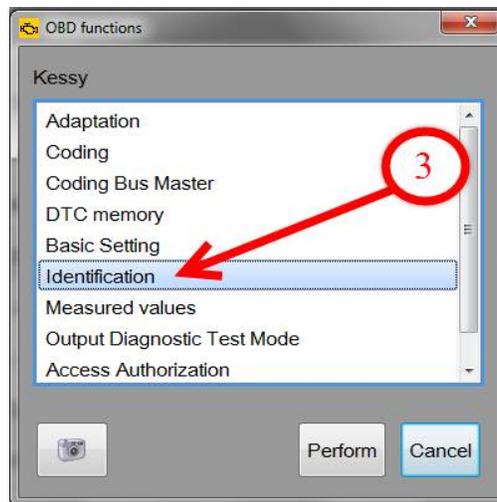


Figure 4. In the OBD functions menu, select **Identification** (3), then click **Perform**.

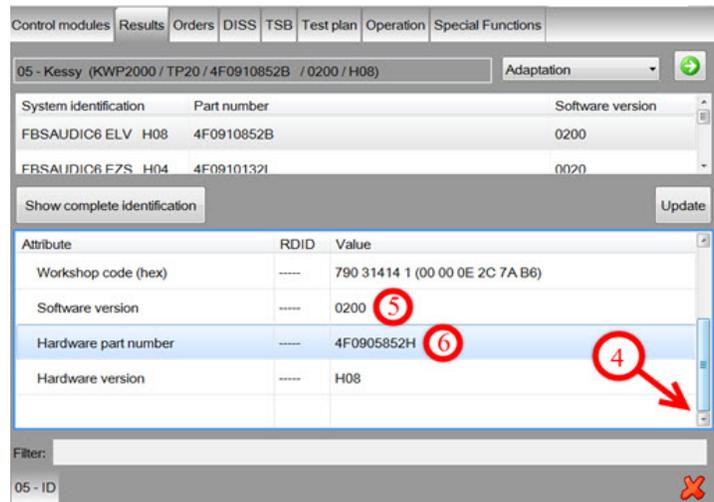


Figure 5. Bottom of lower results window (4) showing software version (5) and hardware part number (6).

3.
 - **For model year 2009 - model year 2014 vehicles:**
Perform SVM update with code 05A005, following the instructions below.
 - **For model year 2005 - model year 2008 vehicles:**
 - If the hardware part number is 4F0905852D, 4F0905852E, 4F0905852F, or 4F0905852H, perform SVM update with code 05A005, following the instructions below.
 - If the hardware part number is not listed above, do not perform the SVM update. Proceed to step 4.



Tip: In vehicles with hardware part numbers 4F0905852D or 4F0905852E, the permanent entry **DTC 1314** (Engine control module (ECM) - no signal/communication) is logged in the access/start authorization control module, J518 (address word 05). This entry is related to functions of the start/stop system that are not supported by this vehicle. The entry can be ignored, as it does not affect any functions. Further GFF is not necessary.

4. Replace the access/start authorization control module, J518 (address word 05).
5. Check the software version in the new access/start authorization control module, J518 (address word 05). If the software version is under 0210, perform an update with SVM code 05A005, following the instructions below.

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SVM Update Instructions

1. Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions.*
2. Update the access/start authorization control module, J518 (address word 05), using the SVM action code as listed in the table below if necessary.

Model	Old Software Part Number	Old Software Version	New Software Part Number	New Software Version (or higher)	SVM Code Input
Q7	4F0905852F 4F0905852D 4F0905852H	*	4F0905852F 4F0905852D 4F0905852H	0210	05A005
A6	4F0905852E 4F0905852D 4F0905852H 4F0905852F	*	4F0905852E 4F0905852D 4F0905852H 4F0905852F	0210	05A005

Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	9668		
Damage Code:	0040		
Labor Operations:	SVM update	0151 0000	Time stated on diagnostic protocol (Max 100 TU)
	Immobilizer ECM replace (If needed)	9668 5500	250 TU (For Q7) 160 TU (For A6)
Diagnostic Time:	GFF	No allowance	0 TU
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	0121 0004	10 TU
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details)		
Claim Comment:	As per TSB #2040593/1		

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

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Additional Information

The following Technical Service Bulletin will be necessary to complete this procedure:

- TSB 2011732 *00 Software Version Management (SVM), operating instructions.*

All part and service references provided in this TSB (2040593) are subject to change and/or removal. Always check with your Parts Dept. and service manuals for the latest information.