

46 Electronic parking brake warning light on; parking brake doesn't
always release

Release date: Aug 27,
2009

Condition

REVISION HISTORY		
Revision	Date	Purpose
4	-	Revised header data (New customer codes)
3	11/4/2008	Revised Title to include Repair Group

Electromechanical parking brake (EPB) malfunction indicator is on in the instrument cluster. When customer shifts from park to drive after the vehicle has been parked with EPB applied, EPB may not release.

Technical Background

This condition can result from two different sources.

Customer's manner of use

DTCs may be stored if the vehicle is driven for a long distance (approximately 620 miles or 1,000 km) without using the EPB, parked with hot brakes, and EPB carries out a self-test (calipers opened and closed once). The self-test will have different results with hot brakes compared to when the brakes have cooled down. In this event, DTCs are stored in the EPB control unit although there is no fault with the system.

Outdated software version

Various DTCs may be stored in the EPB control units with previous software versions. Typically there are at least 3 and not more than 5 DTCs stored. The following are some common combinations:

- DTC 01487 008, DTC 02443 012 as well as DTC 02434 009 or DTC 02435 009,
- DTC 01487 012, DTC 02443 012 as well as DTC 02432 00C or DTC 02433 00C,

- DTC 01316 013, DTC 011487 008, DTC 02434 009, DTC 02443 012,
- DTC 00456 004, DTC 00456 008, DTC 01299 004, DTC 01299 008, DTC 01314 008, or
- DTC 01316 004, DTC 01316 008, DTC 01316 013, DTC 01317 008, DTC 01321 004.

For more information, please see attached examples.

Production Solution

New software in the EPB Control Module (J540) resolved the problem.

Service

If the faults are stored because of the customer's manner of use:

1. Switch off the ignition.
2. Restart vehicle.
3. Move the parking brake switch in both directions (pull to apply parking brake, push to release parking brake).
4. The EPB malfunction indicator will turn off and the parking brake can again be used normally.
5. Explain to the customer how to prevent the problem from recurring.

If parking brake functionality does not return, update the software version.

If the faults are stored because of outdated software:

1. Check the software part number and software level in the EPB (J540).
2. Before performing the update, delete any DTCs stored in the EPB control unit. For static/permanent DTCs follow these steps:
 - a. Switch off ignition and remove the key.
 - b. Insert key and switch on ignition.
 - c. While the ignition is on, operate the EPB switch, in the center console, in both directions (pull – apply parking brake, push – release parking brake).

d. DTCs will change to sporadic and must now be deleted.

3. On vehicles with a manual transmission, remove the fuse for the clutch sensor before the update (see current flow diagram). Reconnect the fuse after the update is complete.

4. Update the EPB control module using the SVM action code as listed in the table below.

Model	Old Software Part Number	Old Software Version	New Software Part Number	New Software Version (or higher)	SVM Action Code
A6 (C6)	4F0910801	010	4F0910801C	080	4F53A002
A6 (C6)	4F0910801	020	4F0910801C	080	4F53A002
A6 (C6)	4F0910801	030	4F0910801C	080	4F53A002
A6 (C6)	4F0910801A	040	4F0910801C	080	4F53A002
A6 (C6)	4F0910801B	060	4F0910801C	080	4F53A002

The update takes place in two stages and ends when no further update is suggested in the diagnosis address 53 and the following message appears: **Vehicle modification/update successful. The changes are saved in the system.**

5. After the update is complete, the EPB control must be coded using the same code which was used prior to the update. This is necessary even if the same code is shown after the update.

- In case the update fails and the parking brake cannot be found any more in the GFF, proceed to vehicle self-diagnosis.

- If the message **The vehicle system is not programmed ...** appears, the EPB control unit can still be reached. In this exceptional case, proceed as follows:

- a. Remove both fuses (SF3 and SF4), which are located in the right side of the luggage compartment (Fuse holder ST1), for the parking brake motors (V282 and V283) at the same time for at least 10 seconds.

- b. Reinstall both fuses and switch on the ignition.
- c. Attempt to perform update again.



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.

For further SVM update instructions and troubleshooting, please refer to TSB 2011732 00 *Software Version Management (SVM), operating instructions*.

Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	4664		
Damage Code:	0039		
Labor Operation:	0150 0000 002	GFF/Guided functions	Use the time stated on the diagnosis protocol
Diagnostic Time:	Diagnostic time reimbursement follows guidelines printed in Section 2.2 of the <i>Audi Warranty Policies and Procedures Manual</i>		
Claim Comment:	As per TSB #2016350/4		

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.

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 are subject to change and/or removal. Always check with your Parts Dept. and service manuals for the latest information.

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