



# Technical Service Bulletin

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## 48 Red steering warning lamp on in cluster, DTC B200000 is stored in the power steering control module

48 21 97 2063041/1 April 20, 2021.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A4, A4 allroad, and S4	2017 - 2020	All	Not Applicable
A5, A5 Cabriolet, A5 Sportback, S5, S5 Cabriolet, and S5 Sportback,	2018 - 2020	All	Not Applicable
RS 5, RS 5 Cabriolet, and RS 5 Sportback	2019, 2021	All	Not Applicable

## Condition

### Customer states:

- The steering feels heavy.
- Red warning lamp for steering in instrument cluster.

### Workshop findings:

- The customer concern can be reproduced.

One of the following DTC and symptom code combinations are stored in the power steering control module, J500 (address word 0044):

- **DTC B200000** (Faulty control module) with symptom code 14848.

Or

- **DTC B200000** (Faulty control module) with symptom code 5120.



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## Technical Background

Before updating the power steering control module, J500 (address word 0044), review the 4 steps below:



### Note:

Observe the extended ambient conditions in the control module, otherwise a software update **will not** fix the concern.

#### 1. With DTC B200000, symptom code 14848 and (Software version 409 and 410)

1.1 Check the parameter for customer fault type (**Param\_Kfa**) in the extended ambient conditions.

1.2 The number **6** must be listed. If number 6 is shown, the update will be effective (Figure 1).

Erweiterte Umgebungsdaten 1	5	
Engine_Running_Stable	Engine_Running_Stable	
Versorgungsspannung	13.0	V
Temperatur	32	°C
Param_Kfc	58	
<b>Param_Kfa</b>	<b>6</b>	
---	36	
Param_SteerAngleCalcu	1	°
Param_DriviDirec	0	
Param_SteerTorqu	0.1	Nm
Param_SteerAngleCalcuSign	0	
Param_StartInfo	1	

*Figure 1. Extended Ambient Conditions.*

#### 2. With DTC B200000, symptom code 14848 and (Software version 405 and 407)

2.1 (**Param\_Kfa**) not visible with this software version.

2.2 If the DTC is no longer logged after the SVM update, the update has been successful.

2.3 If the DTC still logged after SVM update, the steering gear will have to be replaced.

#### 3. With DTC B200000, symptom code 5120: (Software version 409 and 410).

3.1 Check the parameter for customer fault type (**Param\_Kfa**) in the extended ambient conditions.

3.2 The number **11** must be listed. If number 11 is shown, the update will be effective.

#### 4. With DTC B200000, symptom code 5120: (Software version 405 and 407).

4.1 (**Param\_Kfa**) not visible with this software version.

4.2 If the DTC is no longer logged after the SVM update, the update has been successful.

4.3 If the DTC still logged after SVM update, the steering gear will have to be replaced.



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## Production Solution

Improved software for MY 21.

## Service

### SVM Update Instructions

1. Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions*.
2. Update the power steering control module, J500 (address word 0044) 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 (or higher)	New Software Version (or higher)	SVM Code Input
A4/A5	8W0909144F	0407	8W0909144J	0411	44A013
	8W0909144D	0405			
	8W0909144H	0410			
	8W0909144G	0409			

3. If steering gear replacement is necessary, proceed as described in the Elsa Repair Manual, *Chassis >> Suspension, Wheels, Steering >> 48 Steering >> Steering Gear >> Removing and Installing*.

## Warranty

<b>Claim Type:</b>	<ul style="list-style-type: none"><li>• 110 up to 48 Months/50,000 Miles.</li><li>• G10 for CPO Covered Vehicles – Verify Owner.</li><li>• If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.</li></ul>		
<b>Service Number:</b>	4835		
<b>Damage Code:</b>	0040		
<b>Labor Operations:</b>	Electro mechanical steering Remove + Reinstall (only if steering gear is replaced)	4835 1900	See SRT with associated operations



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	Vehicle front rear measurement (only if steering gear is replaced)	4495 0300	See SRT with associated operations
	Software Update	0151 0000	30 TU
<b>Diagnostic Time:</b>	GFF	0150 0000	Time stated on the diagnostic protocol (Max 50 TU)
	Road test prior to the service procedure	No allowance	0 TU
	Road test after the service procedure	0121 0004	10 TU
<b>Claim Comment:</b>	As per TSB #2063041/1		

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.

## Required Parts and Tools

Always check with your Parts Department and/or ETKA for the latest information and parts bulletins.		
Part Number	Part Description	Quantity
See ETKA	Fasteners, Bolts, Nuts, and Screws as needed per the Repair Manual	See ETKA/ELSA
See ETKA	Steering Gear (if necessary)	01

## Additional Information

More information on this system can be found in the following resources:

- Elsa: Chassis >> Suspension, Wheels, Steering >> 48 Steering >> Steering Gear >> Removing and Installing.

The following Technical Service Bulletin(s) 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 (2063041) are subject to change and/or removal. Always check with your Parts Department and/or ETKA for the latest information and parts bulletins. Please check the Repair Manual for fasteners, bolts, nuts, and screws that require replacement during the repair.

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