

Technical Service Bulletin



91 Antenna technical problem message (DTC 02617)

91 16 36 2041940/2 April 12, 2016. Supersedes Technical Service Bulletin Group 91 number 15-13 dated September 23, 2015 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A4, A5	2016	All	Not Applicable

Condition

REVISION HISTORY		
Revision	Date	Purpose
2	-	Revised <i>Service</i> (Completely revised due to software release)
1	9/23/2016	Initial publication

- The following message is displayed in the driver information panel when in the SiriusXM band:
 - “ANTENNA - A technical problem has occurred. Please contact your Audi dealer.” (Figure 1).
- Audio from the satellite radio is present.
- **DTC 02617** (Satellite antenna) is stored in the radio (address word 56) with fault code 11 (Open circuit).

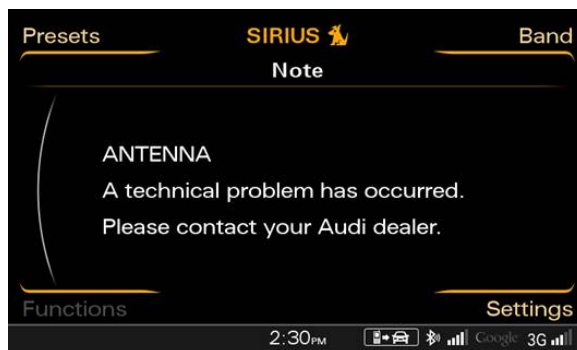


Figure 1. ANTENNA message.

Technical Background

Visually, the MMI and MIB antennas are the same (Figure 2), but each antenna draws a different amount of current. For this reason, if an MIB antenna has been installed on a vehicle with an MMI radio, it causes an open circuit DTC. The open circuit DTC will be set on an MMI radio if the current draw from the antenna falls below 60mA .

- A MIB antenna draws 55mA (+/- 10mA) 4G0-035-503-K
- A MMI antenna draws 110mA (+/- 10mA) 4G0-035-503-J



Figure 2. MIB antenna with K suffix part number 4G0-035-503-K (A), and MMI antenna with J suffix part number 4G0-035-503-J.

Production Solution

Improved software.

Service

1. Check the current consumption of the shark fin antenna through ODIS GFF.
2. In ODIS GFF, access the measured value blocks of the radio (address word 56) (Figure 3).

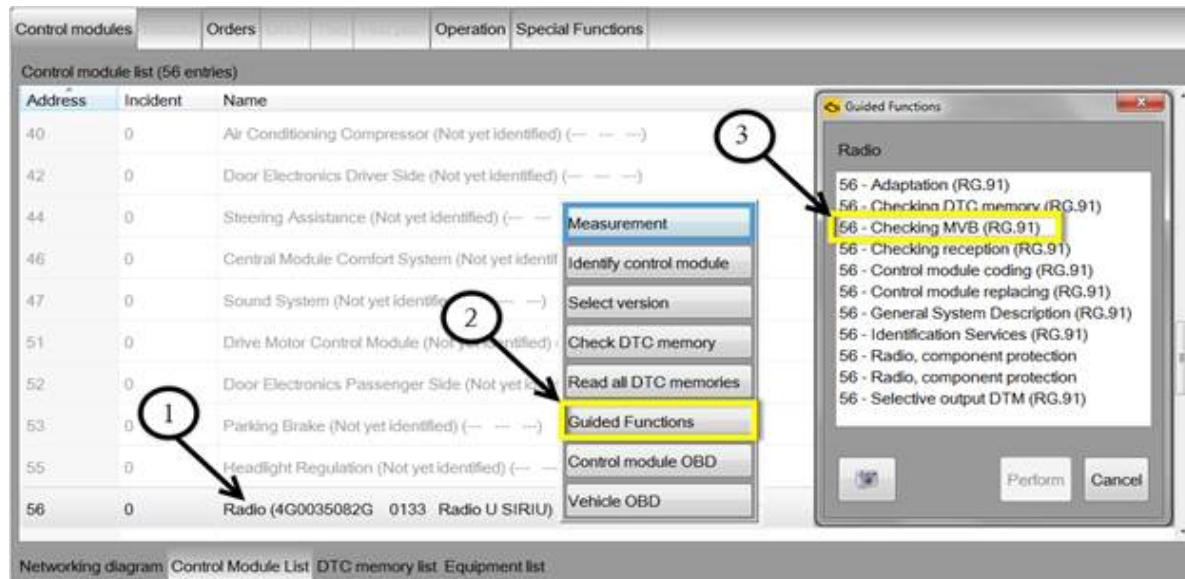


Figure 3. Access radio measured value blocks by right-clicking the radio module (1), then selecting Guided Functions (2), then selecting Checking MVB (RG.91) and clicking Perform. (Shown for MMI 3G+.)

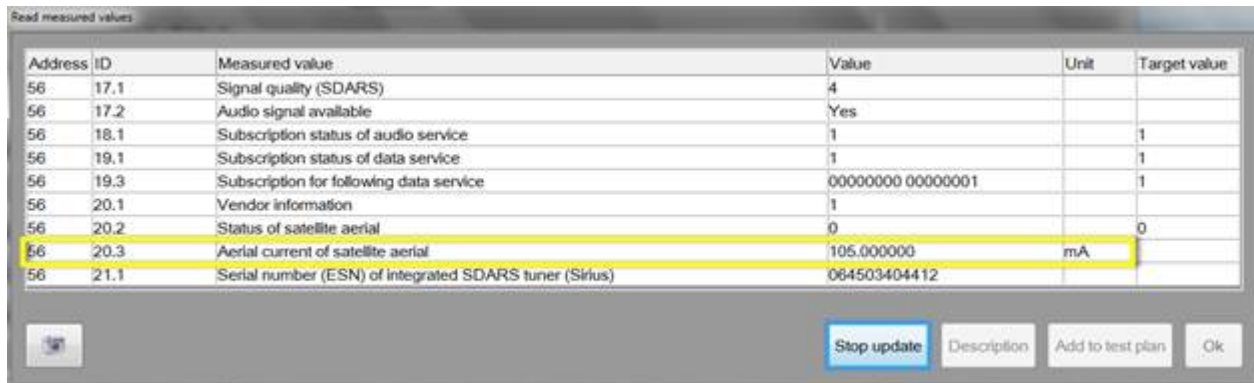
3. Select measuring value -3- Integrated digital tuner (if available) (Figure 4).

Which measuring value should be displayed?

 - 1 - Radio general
 - 2 - Antennas
 - 3 - Integrated digital tuner (if available)
 - 4 - Inputs
 - 5 - Cancel

Figure 4. Select measuring value -3- Integrated digital tuner (if available).

4. Check the current consumption of the satellite radio antenna (MVB 20.3 for MMI 3G+; MVB 9.3 for CAN radio) (Figure 5):
 - If the current consumption shown on an MMI system is between 40mA – 100mA, proceed to step 5.
 - If the current consumption of the antenna is above 100mA, this TSB does not apply. Continue to diagnose the concern outside of this TSB.



Address	ID	Measured value	Value	Unit	Target value
56	17.1	Signal quality (SDARS)	4		
56	17.2	Audio signal available	Yes		
56	18.1	Subscription status of audio service	1		1
56	19.1	Subscription status of data service	1		1
56	19.3	Subscription for following data service	00000000 00000001		1
56	20.1	Vendor information	1		
56	20.2	Status of satellite aerial	0		0
56	20.3	Aerial current of satellite aerial	105.000000	mA	
56	21.1	Serial number (ESN) of integrated SDARS tuner (Sirius)	064503404412		

Figure 5. Check the current consumption of the satellite radio antenna. (Shown for MMI 3G+.)

- Update the software using the *SVM Update Instructions* below. The new software will update open circuit detection parameters in the radio control module (address word 56).

! Note:

The software of the radio control module must be updated with an SD card (part number 8R0906961EK), which should be ordered in advance.

SVM Update Instructions

- Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions*.
- Update the radio control module (address word 56) using the SVM action code as listed in the table below, if necessary.

! Note:

To perform the update with the SD card, use ODIS Guided Fault Finding to run “SVM-Code input”. Follow the instructions outlined by the test plan. The test plan will display a prompt to insert the SD card into the MIB system. The update will be performed with data on the SD card, and a progress meter will be displayed on the MMI screen. Note that the tester must remain hardwired to the vehicle during the update.

Model	Old Software Part Number	Old Software Version	New Software Part Number	New Software Version (or higher)	SVM Code Input
A4, A5	4G1035053J	*	4G1035053J	0133	3GPUS138AU3G
A4, A5	4G0035056J	*	4G0035056J	0133	3GPUS138AU3G
A4, A5	4G0035082H	*	4G0035082H	0138	3GPUS138AU3G
A4, A5	4G0035080H	*	4G0035080H	0138	3GPUS138AU3G

Technical Service Bulletin



Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	9118		
Damage Code:	0040		
Diagnostic Time:	GFF	0150 0000	Time stated on diagnostic protocol (Max 100 TU)
	Road test prior to service procedure	No allowance	10 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 #2041940/2		

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

Part Number	Part Description	Quantity
8R0906961EK	Update SD Card	1

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 (2041940) are subject to change and/or removal. Always check with your Parts Dept. and service manuals for the latest information.