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Technical Bulletin

Subject: Telematics/V60 Digital Phone Diagnostics Guideline

Group: 91

Number: 05-15

Model(s): A8L with Audi Telematics 2004,

Date: Sept. 9, 2005

by OnStar®

2005 ▶ to VIN 4E_5N010600

Supersedes T.B. Group 91 number 04-03 dated Mar. 11, 2004 due to addition of M.Y. and DTC information.

Condition

The procedures outlined below will allow for complete integrated Telematics and V60 digital phone diagnosis.

Reference Material

For system overview and operations, please refer to the following pamphlets/ booklets:

- SSP 993203 Audi Telematics by OnStar®.
- Audi Telematics by OnStar® Operating Instructions (Literature No. 221.562.652.21).
- 2004 Audi MMI Operating Instructions (Literature No. 243.562.691.21).
- Quick Reference Guide Audi Telematics by OnStar® (Literature No. 221.562.655.21).*
- Audi V60 Digital Phone Users Guide (Literature No. W53 123 3010).*
- Selling Audi Communication System Brand Specialists Pocket Guide (Literature No. W42 552 503 74 062003).*

Note:

* Information also resides in AESIS under Additional Information.

Overview

The following Service Procedures apply to these modules:

- Telematics (address word: 75).
- Sound system (address word: 47).



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- Diagnostic interface for data-bus (address word: 19).
- Steering wheel electronics (address word: 16).
- Navigation (address word: 37).
- 2004 A8L Display-/ control unit (MMI) (address word: 07).

Service

Preliminary Diagnosis

Telematics/V60 phone diagnostics must be followed completely in the sequence outlined in this Technical Bulletin.

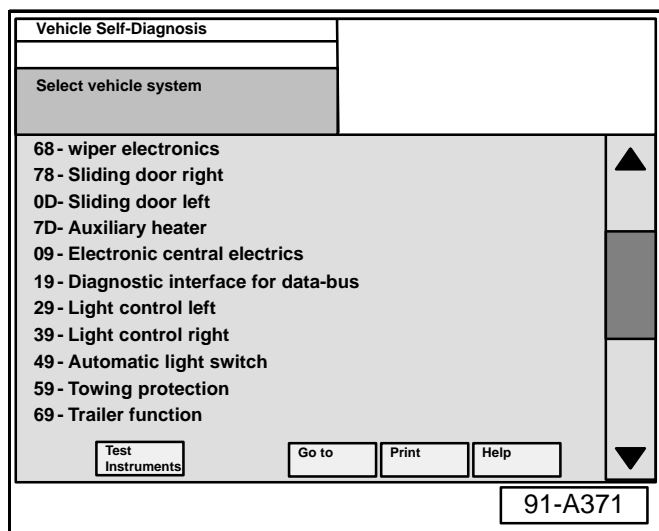
- Connect VAS 5051/5052 Diagnostic tool.
- Switch ignition ON.
- Check DTC memory of all applicable control modules (address words: 07, 16, 47, 56, & 75).



Tip:

The following DTCs may be encountered in the telematics control unit and are NOT reason for replacement of the telematics control unit or the emergency battery:

- ◆ 01477/005 – System switched off – no or incorrect basic setting/adaptation. (This DTC is displayed by default as long as telematics control unit is not activated)
- ◆ 02084/005 – Component protection no or incorrect basic setting/adaptation. (This DTC is displayed by default as long as telematics control unit is not learned to GEKO).
- Return to “Select vehicle system” screen using backward arrow ◀ on navigation bar.
- ◀ – Select address word “19 - Diagnostic interface for data-bus”.





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Vehicle Self-Diagnosis	19 - Diagnostic interface for data-bus
Select diagnosis function	Component part number Component description Coding XXXX Dealership number XXXXX
02 - Interrogate fault memory 05 - Erase fault memory 06 - End output Coding subbussystem 08 - Read Measuring Value Block 16 - Access permission Identification services Reading / writing long coding	
<input type="button" value="Test Instruments"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>	
91-A372	

◀ – Select diagnosis function “Reading / writing long coding”.

Vehicle Self-Diagnosis	19 - Diagnostic interface for data-bus
Reading / writing long coding	Component part number Component description Coding XXXX Dealership number XXXXX
Selecting vehicle system for coding	
07 - Display-/ control unit 17 - Dash panel insert 27 - Display-/ control unit, rear 37 - Navigation 47 - Sound system 57 - TV-Tuner 67 - Voice control 77 - Telephone 0E- Media player position 1 1E- Media player position 2 2E- Media player position 3	coded coded not coded coded coded not coded coded not coded coded not coded not coded
<input type="button" value="Test Instruments"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/> <input type="button" value="▶"/>	
91-A385	

◀ – Check coding of address words “67-Voice Control” and “77-Telephone”.

◆ Both address words should be “not coded”.
To change address words from “coded” to “not coded:”

– Touch screen on top of word “coded” –arrow-

– Use forward arrow ▶ to proceed with address word coding.

Vehicle Self-Diagnosis	19 - Diagnostic interface for data-bus
Reading / writing long coding	Component part number Component description Coding XXXX Dealership number XXXXX
Coding in progress	
<div style="border: 1px solid black; padding: 10px; margin: 10px;"> <p>Note </p> <p>Definitely perform coding</p> <p><input type="button" value="OK"/> <input type="button" value="Cancel"/></p> </div>	
91-A386	

◀ Confirmation screen appears as shown.

– Select OK button to authorize module coding.

◆ Selected address word will update from “coded” to “not coded”.

– Return to “Select vehicle system” screen using backward arrow ◀ on navigation bar.

– Check coding of all applicable control modules. Address words: 07, 16, 47, 56, & 75).



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Control module coding should be as follows:

- ◆ Telematics (address word: 75) control module = 5.
- ◆ Steering wheel electronics (address word: 16) control module = 12241.
- ◆ Radio (address word: 56) control module = 2.
- ◆ Sound system (address word: 47) control module = 16.
- ◆ Display-/ control unit (MMI) (address word: 07) = 103.

Vehicle Self-Diagnosis				
Select vehicle system				
15 - Airbag	▲			
25 - Immobilizer				
35 - Central locking				
45 - Interior monitoring				
55 - Automatic vertical headlight aim control				
65 - Tyre pressure monitoring				
75 - Telematics				
1C- Vehicle position detection				
06 - Passenger - side seat adjustment				
16 - Steering wheel electronics				
26 - Electronic roof controls				
▼				
Test Instruments		Guided Fault Finding	Go to	Print
91-A341				

TELEMATICS (address word: 75) "FINAL CONTROL DIAGNOSIS"

◀ - Select address word "75 - Telematics".

Vehicle Self-Diagnosis		75 - Telematics		
Select diagnosis function		Component part number		
		Component description		
		Coding XXXX		
		Dealership number XXXXX		
02 - Interrogate fault memory	▲			
03 - Final control diagnosis				
05 - Erase fault memory				
06 - End output				
07 - Code control unit				
Coding subbussystem				
08 - Read Measuring Value Block				
10 - Adaption				
16 - Access permission				
Identification services				
▼				
Test Instruments		Guided Fault Finding	Go to	Print
91-A342				

◀ - Select diagnosis function "03 - Final control diagnosis".



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Vehicle Self-Diagnosis	75 - Telematics
03 - Final control diagnosis	Component part number
Actuator is running	Component description
Continued switching allowed	Coding XXXXX
	Dealership number XXXXX
Loudspeaker(s)	
Measured values closed Loudspeaker(s)	
<input type="button" value="◀"/> <input type="button" value="Test Instruments"/> <input type="button" value="Guided Fault Finding"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/> <input type="button" value="▶"/>	
91-A351	

◀ – Use forward arrow ▶ to advance through test.

If “Final Control” tests fail:

– Further diagnosis should be performed.



Tip:

◆ For Telematics (address word: 75) the loudspeaker must pulse.

◆ Auxiliary speaker is located in the passenger B-pillar.

If loudspeaker does not pulse and the radio is functioning OK:

◆ The problem may be with the radio coding.

– Recheck radio coding and then recheck for radio DTCs.

DISABLING TRANSPORT MODE



Tip:

◆ Transport mode should be off in a customer sold vehicle.

– Return to “Select diagnosis function” screen using backward arrow ◀ on navigation bar.

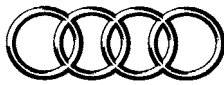
◀ – Select diagnosis function “10 - Adaption”.

Vehicle Self-Diagnosis	75 - Telematics
Select diagnosis function	Component part number
	Component description
	Coding XXXX
	Dealership number XXXXX
02 - Interrogate fault memory 03 - Final control diagnosis 05 - Erase fault memory 06 - End output 07 - Code control unit Coding subbussystem 08 - Read Measuring Value Block 10 - Adaption 16 - Access permission Identification services	
<input type="button" value="◀"/> <input type="button" value="Test Instruments"/> <input type="button" value="Guided Fault Finding"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>	
91-A342	

Vehicle Self-Diagnosis	75 - Telematics												
10 - Adaption	Component part number												
Enter channel number	Component description												
max. input value = 99	Coding XXXXX												
	Dealership number XXXXX												
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <div style="border: 1px solid black; padding: 2px; text-align: center; width: 40px; margin: 0 auto;">XXX</div> <table border="1" style="margin: 5px auto; text-align: center;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>C</td><td>0</td><td>Q</td></tr> </table> </div>		1	2	3	4	5	6	7	8	9	C	0	Q
1	2	3											
4	5	6											
7	8	9											
C	0	Q											
<input type="button" value="◀"/> <input type="button" value="Guided Fault Finding"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>													
91-A355													

◀ – Input “003” on keypad to select “Channel 3”.

– Select “Q” button to confirm.



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Vehicle Self-Diagnosis	75 - Telematics
10 - Adaption	Component part number
Read and test channel 3	Component description
	Coding XXXXX
	Dealership number XXXXX
Service-Mode OFF	
0 0 8	
Keyboard Save	
◀ Test Instruments Guided Fault Finding Go to Print Help	
91-A346	

◀ ◆ Channel 3 value should be "0".

If Channel 3 value is not "0":

- Perform re-adaptation.

- Select backward arrow ◀ on navigation bar.

- Input "008" on keypad to select "Channel 8".

- Select "Q" button to confirm.

Vehicle Self-Diagnosis	75 - Telematics
10 - Adaption	Component part number
Read and test channel 8	Component description
	Coding XXXXX
	Dealership number XXXXX
Emerg. battery ON	
0 0 8	
Keyboard Save	
◀ Test Instruments Guided Fault Finding Go to Print Help	
91-A347	

◀ ◆ Channel 8 value should be "0".

If Channel 8 value is not "0":

- Perform re-adaptation.

Vehicle Self-Diagnosis	
Select vehicle system	
3D- Special function	▲
07 - Display-/ control unit	
17 - Dash panel insert	
27 - Display-/ control unit, rear	
37 - Navigation	
47 - Sound system	
57 - TV-Tuner	
67 - Voice control	
77 - Telephone	
0E- Media player position 1	
0E- Media player position 2	▼
Test Instruments Go to Print Help	
91-A361	

SOUND SYSTEM (address word: 47) "FINAL CONTROL DIAGNOSIS"

- Return to "Select vehicle system" screen using backward arrow ◀ on navigation bar.

◀ - Select address word "47 - Sound system".



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Vehicle Self-Diagnosis	47 - Sound system
Select diagnosis function	Component part number Component description Coding XXXX Dealership number XXXXX
02 - Interrogate fault memory 03 - Final control diagnosis 05 - Erase fault memory 06 - End output 07 - Code control unit Coding subbussystem 08 - Read Measuring Value Block 10 - Adaption 16 - Access permission Component protection Identification services	
<input type="button" value="Test Instruments"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>	
91-A369	

◀ – Select diagnosis function “03 - Final control diagnosis”.

Vehicle Self-Diagnosis	47 - Sound system
03 - Final control diagnosis	Component part number Component description Coding XXXXX Dealership number XXXXX
Actuator test is waiting Continued switching required	
Left Front Midrange Speaker -R26-	
Measured values closed Left Front Midrange Speaker -R26-	
<input type="button" value="Test Instruments"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/> <input type="button" value="▶"/>	
91-A370	

◀ – Use forward arrow ▶ to advance through test.



Tip:

- ◆ Make sure all speakers pulse that have a voltage applied (shown in lower part of screen.)

If “Final Control” tests fail:

- Further diagnosis should be performed.

Vehicle Self-Diagnosis	
Select vehicle system	
68 - wiper electronics 78 - Sliding door right 0D- Sliding door left 7D- Auxiliary heater 09 - Electronic central electrics 19 - Diagnostic interface for data-bus 29 - Light control left 39 - Light control right 49 - Automatic light switch 59 - Towing protection 69 - Trailer function	
<input type="button" value="Test Instruments"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>	
91-A371	

DIAGNOSTIC INTERFACE FOR DATA-BUS DIAGNOSIS (address word: 19)

- Return to “Select vehicle system” screen using backward arrow ◀ on navigation bar.
- ◀ – Select address word “19 - Diagnostic interface for data-bus”.



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Vehicle Self-Diagnosis	19 - diagnostic interface for data-bus
Select diagnosis function	Component part number Component description Coding XXXX Dealership number XXXXX
02 - Interrogate fault memory 05 - Erase fault memory 06 - End output Coding subbussystem 08 - Read Measuring Value Block 16 - Access permission Identification services Reading / writing long coding	
◀ Test Instruments	Go to Print Help
91-A372	

- ◀ - Select diagnosis function “08 - Read measuring Value Block”.
- Input “132” on keypad to select “Display group “132”.
- Select “Q” button to confirm.

Vehicle Self-Diagnosis	19 - Diagnostic interface for data-bus
08 - Read Measuring Value Block	Component part number Component description Coding XXXXX Dealership number XXXXX
Read data block	
Parking 1 Tire 1 → Steer wheel 1	
Display Group 132 ▲ ▼	
◀ Test Instruments	Go to Print Help
91-A373	

- ◀ ◆ In Display group 132 the value in “Field 4” should be “Steer wheel 1”.
- If Display group 132 “Field 4” value is not “Steer wheel 1”:
- Further diagnosis should be performed.
- Select backward arrow ◀ on navigation bar.
- Input “140” on keypad to select “Display group 140”.
- Select “Q” button to confirm.

Vehicle Self-Diagnosis	19 - Diagnostic interface for data-bus
08 - Read Measuring Value Block	Component part number Component description Coding XXXXX Dealership number XXXXX
Read data block	
→ Radio 1 ↗ Navigation 1	
Display Group 140 ▲ ▼	
◀ Test Instruments	Go to Print Help
91-A374	

- ◀ ◆ In Display group 140 the value in “Field 1” -black arrow- should be “Radio 1”.
- ◆ In Display group 140 the value in “Field 2” -white arrow- should be “Navigation 1”.
- If Display group 140 “Fields 1 and 2” values are not as stated:
- Further diagnosis should be performed.



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Vehicle Self-Diagnosis	19 - Diagnostic interface for data-bus
08 - Read Measuring Value Block	Component part number
	Component description
	Coding XXXXX
	Dealership number XXXXX
Read data block	
Radio 1 Navigation 1	
	Display Group 140
	▲ ▼
◀ Test Instruments	Go to Print Help
91-A375	

◀ – Select upward arrow ▲ below display group number -arrow-.

◆ Display group will increase to “Display group 141”.

Vehicle Self-Diagnosis	19 - Diagnostic interface for data-bus
08 - Read Measuring Value Block	Component part number
	Component description
	Coding XXXXX
	Dealership number XXXXX
Read data block	
➡ Dig. Soundp. 1	
	➡ Telemat 1
	Dispconmodf 1
	Display Group 141
	▲ ▼
◀ Test Instruments	Go to Print Help
91-A376	

◀ ◆ In Display group 141 the value in “Field 1” -black arrow- should be “Dig. Soundp. 1”.

◆ In Display group 141 the value in “Field 3” -white arrow- should be “Telemat 1”.

If Display group 141 “Fields 1 and 3” values are not as stated:

– Further diagnosis should be performed.

Vehicle Self-Diagnosis	
Select vehicle system	
15 - Airbag	▲
25 - Immobilizer	
35 - Central locking	
45 - Interior monitoring	
55 - Automatic vertical headlight aim control	
65 - Tyre pressure monitoring	
75 - Telematics	
1C - Vehicle position detection	
06 - Passenger - side seat adjustment	
16 - Steering wheel electronics	
26 - Electronic roof controls	▼
Test Instruments	Go to Print Help
91-A341	

STEERING WHEEL ELECTRONICS DIAGNOSIS (address word: 16)

– Return to “Select vehicle system” screen using backward arrow ◀ on navigation bar.

To check steering wheel mode and thumbwheel operation:

◀ – Select address word “16 - Steering wheel electronics”.



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Vehicle Self-Diagnosis	16 - Steering wheel electronics
Select diagnosis function	Component part number Component description Coding XXXX Dealership number XXXXX
02 - Interrogate fault memory 03 - Final control diagnosis 04 - Basic settings 05 - Erase fault memory 06 - End output 07 - Code control unit 08 - Read Measuring Value Block 09 - Reading individual measuring valve 10 - Adaption 11 - Log-in procedure	
<input type="button" value="Test Instruments"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>	
91-A348	

- From the module identification screen, select the forward arrow ► on navigation bar.

- ◀ - Select diagnosis function "08 - Read Measuring Valve Block".

- Input "006" on keypad to select "Display group 6".

- Select "Q" button to confirm.

Vehicle Self-Diagnosis	16 - Steering wheel electronics		
08 - Read Measuring Value Block	Component part number Component description Coding XXXXX Dealership number XXXXX		
Read data block			
<table border="0"> <tr> <td> <input type="checkbox"/> not operated <input type="checkbox"/> not operated <input type="checkbox"/> not operated <input type="checkbox"/> not operated </td> <td style="vertical-align: middle;"> Display Group <div style="border: 1px solid black; padding: 2px; display: inline-block;">6</div> <input type="button" value="▲"/> <input type="button" value="▼"/> </td> </tr> </table>		<input type="checkbox"/> not operated <input type="checkbox"/> not operated <input type="checkbox"/> not operated <input type="checkbox"/> not operated	Display Group <div style="border: 1px solid black; padding: 2px; display: inline-block;">6</div> <input type="button" value="▲"/> <input type="button" value="▼"/>
<input type="checkbox"/> not operated <input type="checkbox"/> not operated <input type="checkbox"/> not operated <input type="checkbox"/> not operated	Display Group <div style="border: 1px solid black; padding: 2px; display: inline-block;">6</div> <input type="button" value="▲"/> <input type="button" value="▼"/>		
<input type="button" value="Test Instruments"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>			
91-A377			

- ◀ ◆ In Display group 6 the value in "Field 1" -black arrow- will change from "not operated" to "operated" when pressing the Mode button.

- ◆ In Display group 6 the value in "Field 2" -white arrow- will change from "not operated" to "operated" when pressing the Push-to-Talk button.

Vehicle Self-Diagnosis	16 - Steering wheel electronics		
08 - Read Measuring Value Block	Component part number Component description Coding XXXXX Dealership number XXXXX		
Read data block			
<table border="0"> <tr> <td> <input type="checkbox"/> not operated <input type="checkbox"/> not operated <input checked="" type="checkbox"/> not operated <input type="checkbox"/> not operated </td> <td style="vertical-align: middle;"> Display Group <div style="border: 1px solid black; padding: 2px; display: inline-block;">6</div> <input type="button" value="▲"/> <input type="button" value="▼"/> </td> </tr> </table>		<input type="checkbox"/> not operated <input type="checkbox"/> not operated <input checked="" type="checkbox"/> not operated <input type="checkbox"/> not operated	Display Group <div style="border: 1px solid black; padding: 2px; display: inline-block;">6</div> <input type="button" value="▲"/> <input type="button" value="▼"/>
<input type="checkbox"/> not operated <input type="checkbox"/> not operated <input checked="" type="checkbox"/> not operated <input type="checkbox"/> not operated	Display Group <div style="border: 1px solid black; padding: 2px; display: inline-block;">6</div> <input type="button" value="▲"/> <input type="button" value="▼"/>		
<input type="button" value="Test Instruments"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>			
91-A378			

- ◀ ◆ In Display group 6 the value in "Field 3" -black arrow- will change from "not operated" to "operated" when pressing the left-hand thumbwheel.

- ◆ In Display group 6 the value in "Field 4" -white arrow- will change from "not operated" to "operated" when pressing the right-hand thumbwheel.

- Select upward arrow ▲ below display group number.



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Vehicle Self-Diagnosis	16 - Steering wheel electronics
08 - Read Measuring Value Block	Component part number
	Component description
	Coding XXXXX
	Dealership number XXXXX
Read data block	
	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> ➔ not operated ➔ not operated not fitted not fitted </div> <div style="border: 1px solid black; padding: 2px;">Display Group 7</div> </div>
▲ ▼	
◀ Test Instruments Go to Print Help	
91-A379	

◆ Display group will increase to “Display group 7”.

◀◆ In Display group 7 the value in “Field 1” -black arrow- will change from “not operated” to “mem. up / mem. down” when rotating left-hand thumbwheel.

◆ In Display group 7 the value in “Field 2” -white arrow- will change from “not operated” to “louder / quieter” when rotating right-hand thumbwheel.

If results are not obtained:

– Further diagnosis should be performed.

NAVIGATION (address word: 37) DIAGNOSIS

– Take vehicle outside to a area with an unobstructed view of the sky.

– Return to “Select vehicle system” screen using backward arrow ◀ on navigation bar.

◀ – Select address word “37 - Navigation”.

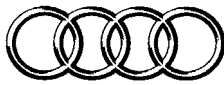
Vehicle Self-Diagnosis	
Select vehicle system	
76 - Parking aid	▲
1D- Driver identification	
2D- Voice amplification	
3D- Special Function	
07 - Display-/ control unit	
17 - Dash panel insert	
27 - Display-/ control unit, rear	
37 - Navigation	
47 - Sound system	
57 - TV-Tuner	
67 - Voice control	▼
Test Instruments Go to Print Help	
91-A358	

Vehicle Self-Diagnosis	37 - Navigation
Select	Component part number
diagnosis function	Component description
	Coding XXXX
	Dealership number XXXXX
02 - Interrogate fault memory	
03 - Final control diagnosis	
04 - Basic settings	
05 - Erase fault memory	
06 - End output	
07 - Code control unit	
08 - Read Measuring Value Block	
09 - Reading individual measuring valve	
10 - Adaption	
11 - Log-in procedure	
Transmitting vehicle identification number	
◀ Test Instruments Go to Print Help	
91-A380	

◀ – Select diagnosis function “08 - Read Measuring Value Block”.

– Input “005” on keypad to select “Display group 5”.

– Select “Q” button to confirm.



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Vehicle Self-Diagnosis	
08 - Read Measuring Value Block	37 - Navigation
	Component part number
	Component description
	Coding XXXXX
	Dealership number XXXXX
Read data block	
Sat. reception 4	
GPS Aerial ➔ OK	
Display Group 5	
▲ ▼	
◀	Test Instruments
Go to	Print Help
91-A381	

◀ ◆ In Display group 5 the value in “Field 4” -arrow- should be “OK”.

If Display group 5 value is incorrect:

– Further diagnosis should be performed.

Vehicle Self-Diagnosis	
Select vehicle system	
15 - Airbag	▲
25 - Immobilizer	
35 - Central locking	
45 - Interior monitoring	
55 - Automatic vertical headlight aim control	
65 - Tyre pressure monitoring	
75 - Telematics	
1C- Vehicle position detection	
06 - Passenger - side seat adjustment	
16 - Steering wheel electronics	
26 - Electronic roof controls	▼
Test Instruments	Guided Fault Finding
Go to	Print Help
91-A341	

– Return to “Select vehicle system” screen using backward arrow ◀ on navigation bar.

◀ – Select address word “75 - Telematics”.

Vehicle Self-Diagnosis	
75 - Telematics	
Component part number	
Component description	
Coding XXXX	
Dealership number XXXXX	
Select diagnosis function	
02 - Interrogate fault memory	
03 - Final control diagnosis	
05 - Erase fault memory	
06 - End output	
07 - Code control unit	
Coding subssystem	
08 - Read Measuring Value Block	
10 - Adaption	
16 - Access permission	
Identification services	
◀	Test Instruments
Go to	Print Help
91-A382	

◀ – Select diagnosis function “08 - Read Measuring Value Block”.

– Input “002” on keypad to select “Display group 2”.

– Select “Q” button to confirm.



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Vehicle Self-Diagnosis	75 - Telematics
08 - Read Measuring Value Block	Component part number Component description Coding XXXXX Dealership number XXXXX
Read data block	
<p>Emerg. battery full Sat. reception ➔ 4</p>	
<p>Display Group 2</p>	
<p>Test Instruments Go to Print Help</p>	
91-A383	

◀ ◆ The system should display 4 or more satellites -arrow-.

- Maneuver front of car in a direction close to north, south, east or west (your choice).
- Select backward arrow ◀ on navigation bar.
- Input "028" on keypad to select "Display group 28".
- Select "Q" button to confirm.

Vehicle Self-Diagnosis	75 - Telematics
08 - Read Measuring Value Block	Component part number Component description Coding XXXXX Dealership number XXXXX
Read data block	
<p>Direction ➔ 270 DP 0</p>	
<p>Display Group 28</p>	
<p>Test Instruments Go to Print Help</p>	
91-A384	

◀ ◆ Depending on vehicle direction, one of the following values -arrow- should be displayed: 00 = North, 90 = East, 180 = South or 270 = West.



Tip:

The value can fluctuate 20 degrees, a reading of 350 degrees could go to 10 degrees and be normal.

If readings are incorrect:

- Check antenna and coax cable for the Telematic control module.

ONSTAR® DIAGNOSIS



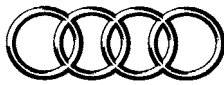
Tip:

◆ *When checking operation of the three buttons while in measuring value blocks the system will not call OnStar®.*

- Return to "Select vehicle system" screen using backward arrow ◀ on navigation bar.

◀ - Select address word "75 - Telematics".

Vehicle Self-Diagnosis	
Select vehicle system	
<p>15 - Airbag 25 - Immobilizer 35 - Central locking 45 - Interior monitoring 55 - Automatic vertical headlight aim control 65 - Tyre pressure monitoring 75 - Telematics 1C - Vehicle position detection 06 - Passenger - side seat adjustment 16 - Steering wheel electronics 26 - Electronic roof controls</p>	
<p>Test Instruments Guided Fault Finding Go to Print Help</p>	
91-A341	



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Vehicle Self-Diagnosis	75 - Telematics
Select diagnosis function	Component part number Component description Coding XXXXX Dealership number XXXXX
02 - Interrogate fault memory 03 - Final control diagnosis 04 - Basic settings 05 - Erase fault memory 06 - End output 07 - Code control unit 08 - Read Measuring Value Block 09 - Reading individual measuring valve 10 - Adaption 11 - Log-in procedure Transmitting vehicle identification number	
<input type="button" value="Test Instruments"/> <input type="button" value="Guided Fault Finding"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>	
91-A363	

- ◀ - Select diagnosis function "08 - Read Measuring Value Block".
- Input "004" on keypad to select "Display group 4".
- Select "Q" button to confirm.

Vehicle Self-Diagnosis	75 - Telematics
08 - Read Measuring Value Block	Component part number Component description Coding XXXXX Dealership number XXXXX
Read data block	
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>→ Emercallbutto not operated</p> <p>→ But-lockend not operated</p> </div> <div style="text-align: right;"> <p>Display Group</p> <p>4</p> <p>▲ ▼</p> </div> </div>	
<input type="button" value="Test Instruments"/> <input type="button" value="Guided Fault Finding"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>	
91-A366	

- ◀ ◆ In Display group 4 the value in "Field 4" -white arrow- will change from "not operated" to "operated" when pressing white dot OnStar® button.
- ◆ In Display group 4 the value in "Field 2" -black arrow- will change from "not operated" to "operated" when pressing the red emergency OnStar® button.
- Select downward arrow ▼ below display group number.
- ◆ Display group will decrease to "Display group 3".

Vehicle Self-Diagnosis	75 - Telematics
08 - Read Measuring Value Block	Component part number Component description Coding XXXXX Dealership number XXXXX
Read data block	
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>→ Telephone connected</p> <p>→ Brdownbutton not operated</p> </div> <div style="text-align: right;"> <p>Display Group</p> <p>3</p> <p>▲ ▼</p> </div> </div>	
<input type="button" value="Test Instruments"/> <input type="button" value="Guided Fault Finding"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>	
91-A367	

- ◀ ◆ In Display group 3 the value in "Field 4" -arrow- will change from "not operated" to "operated" when pressing the blue OnStar® button.
- If Display group values are not correct:
 - Further diagnosis should be performed.

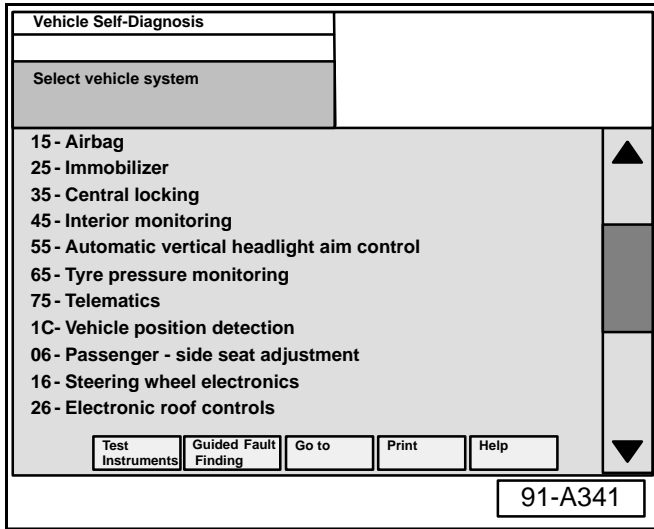


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◀ – Return to “Select vehicle system” screen using backward arrow ◀ on navigation bar.

- Press the blue OnStar® button to connect with an OnStar® Advisor.
- Inform the OnStar® Advisor that you are an Audi Technician working on the OnStar® system.
- Verify the OnStar® Advisor can correctly locate the vehicle.

If test fails:

- Further diagnosis should be performed.
- Thank the OnStar® Advisor and end call by pushing the OnStar® button with the white dot.

AUDI V60 DIGITAL PHONE DIAGNOSIS

- First verify phone is an Audi V60.
- Open the flip cover.
- ◆ Audi rings on the faceplate should be visible.
- Make sure rubber antenna plug on back of V60 phone is removed.
- ◆ This allows for vehicle antenna connection when the V60 is docked in the cradle.

– Place a call with the V60 outside the vehicle.

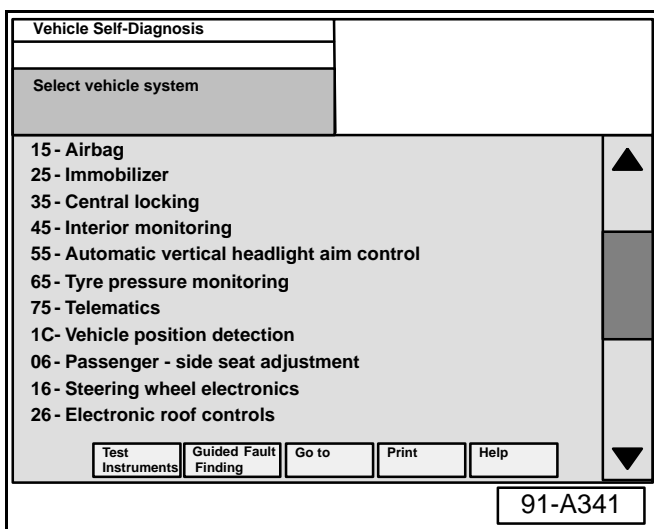
If call cannot be completed.

- Contact Motorola Technical Support Helpline at (877) 668–2834.

If call can be completed:

- Proceed to next step.
- Return to “Select vehicle system” screen using backward arrow ◀ on navigation bar.

◀ – Select address word “75 - Telematics”.





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Vehicle Self-Diagnosis	75 - Telematics
Select diagnosis function	Component part number Component description Coding XXXX Dealership number XXXXX
02 - Interrogate fault memory 03 - Final control diagnosis 04 - Basic settings 05 - Erase fault memory 06 - End output 07 - Code control unit 08 - Read Measuring Value Block 09 - Reading individual measuring valve 10 - Adaption 11 - Log-in procedure Transmitting vehicle identification number	
<input type="button" value="Test Instruments"/> <input type="button" value="Guided Fault Finding"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>	
91-A363	

◀ – Select diagnosis function “08 - Read Measuring Value Block”.

– Input “003” on keypad to select “Display group 3”.

– Select “Q” button to confirm.

Vehicle Self-Diagnosis	75 - Telematics
08 - Read Measuring Value Block	Component part number Component description Coding XXXXX Dealership number XXXXX
Read data block	
Telephone connected Brdownbutton not operated	
Display Group <input type="text" value="3"/> <input type="button" value="▲"/> <input type="button" value="▼"/>	
<input type="button" value="Test Instruments"/> <input type="button" value="Guided Fault Finding"/> <input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="Help"/>	
91-A368	

◀ ◆ With phone out of the cradle the value in “Field 2” -arrow- will be “not connected”.

◆ With phone docked in the cradle the value in “Field 2” -arrow- will be “connected”.

– Wiggle phone in cradle, and wiggle cradle.

◆ “Field 2” value should remain “connected”.

If “Field 2” value does not remain “connected”:

– Inspect cradle connector pins for damage.

– Clean the phone and cradle contacts with a cotton swab and rubbing alcohol.

– Re-test V60 phone.

If “Field 2” value does not remain “connected”.

– Test new cradle.

If “Field 2” value still does not remain “connected”.

– Check wiring harness from the Cradle to the Telematics control module.



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Tip:

Plug phone into another vehicle to see if it has the same problem, indicating the problem may be in the phone itself.

Certain V60 digital phone service features (call waiting, call forwarding etc.) are not available when phone is docked in cradle.

When testing the phone on an outbound or inbound call you must end the call with the "white" button in the OnStar® switch assembly or the lower right button on the steering wheel, as you would hang up your phone at home.

Failure to do this could result in the inability to receive an inbound call.

When making or receiving calls with the V60 docked in the cradle the green OnStar® light should be solid.

If the green light is blinking the call is being routed through OnStar®, which is using OnStar® Personal Calling minutes.