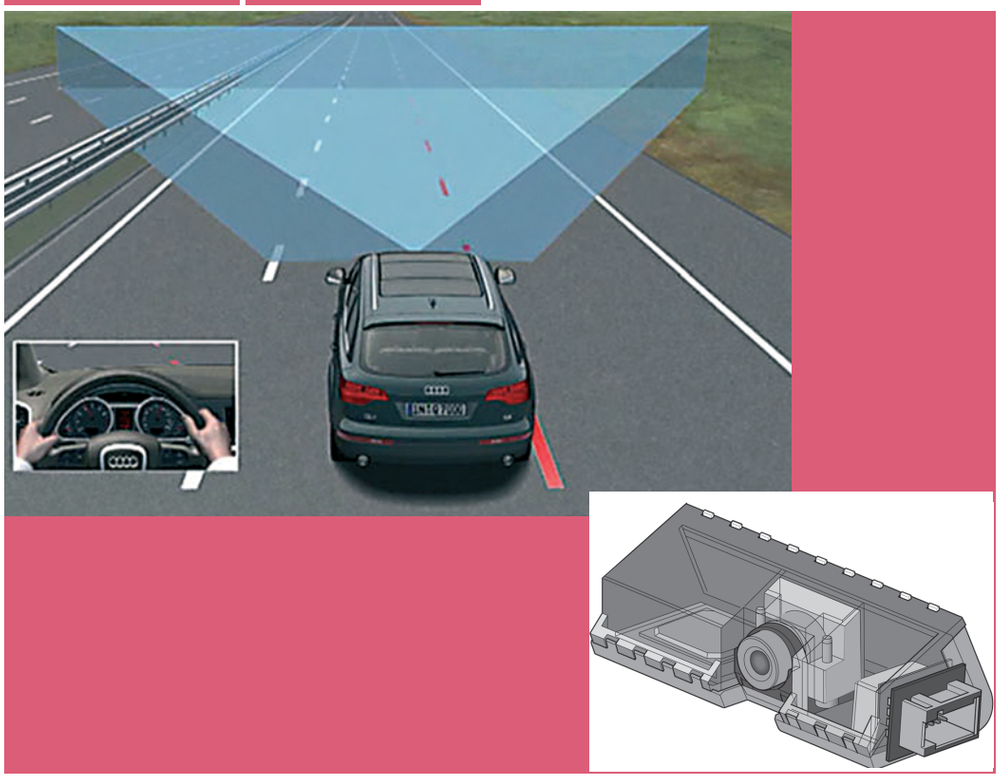
Service Training



Audi Lane Assist System

Self-Study Program 911703

Audi of America, Inc.
Service Training
Printed in U.S.A.
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Self-Study Programs teach the design and function of new vehicle models, new automotive parts, and new technologies.

The Self-Study Program is not a Repair Manual!
The values given are only intended as a guideline. Refer to the software version valid at the time of publication of the SSP.

For maintenance and repair work, always refer to the current technical literature.

Reference



Note



Introduction

Overview

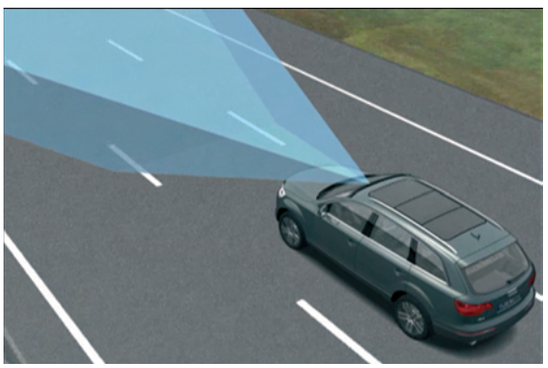
To mark the launch of the new Q7 SUV, Audi extended its range of driver assist systems to include the radar-assisted “Audi Side Assist” system and the Rear View Camera. Both systems met with a very encouraging response from customers and experts alike. They once again emphasize the fact that Audi takes its slogan “Vorsprung durch Technik” very seriously.

A logical consequence of this is that Audi is now extending this range to include a new system: Audi Lane Assist. This system helps the driver to stay in lane.

In the event the driver is inattentive or distracted, the vibrating steering wheel can warn the driver when the vehicle is about to leave its lane. The aim is to help avoid accidents.

Despite the availability of this technology, however, it is still imperative that motorists only get behind the steering wheel when they feel fit to drive. Audi Lane Assist is system designed to help the driver. However, the responsibility for staying in lane ultimately rests with the driver.

Under current plans, Audi Lane Assist will be available on A4, A5, A6, Q7, and A8 models.



398_035



398_036

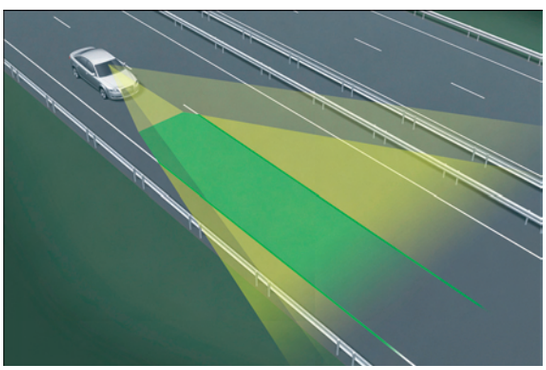
Function

Audi Lane Assist helps the driver to stay in a chosen lane. A camera is used to detect lane markers. Audi Lane Assist is “on alert” when lane markers are detected on either side of the lane in which the vehicle is driving. When the vehicle approaches a detected lane marker and is about to depart from the lane, Audi Lane Assist alerts the driver by making the steering wheel vibrate. If Audi Lane Assist is “on alert” and the driver indicates a desire to change lanes by activating a turn signal, no warning is given. The system assumes the lane change is deliberate.

The steering wheel vibrates once only in order to alert the driver when the vehicle is approaching or crossing a detected lane marker. A second warning is only given if the vehicle has moved a sufficient distance away from the lane marker after the first warning and subsequently approaches the lane marker again. This avoids warnings being given continuously when the vehicle is traveling in parallel with a lane marker.

The system is designed for use on freeways and connecting roads. For this reason, it does not become active until the vehicle is traveling at a speed of 40 mph (65 kph) or higher.

Adverse ambient conditions (for example dirty or snow covered road surfaces, narrow lanes, or ambiguous lane markers) may result in the system being temporarily unavailable. A display in the instrument cluster informs the driver of current system status.



398_034



398_037

Note

Audi Lane Assist is a driver assistance system. The system helps the driver to avoid leaving a lane inadvertently by issuing an alert warning before the vehicle crosses detected lane markers. However, the responsibility for staying in lane ultimately rests with the driver!

Displays

Warning Lamp on Instrument Cluster



398_002

Possible Warning Lamp Displays

	If the warning lamp in the instrument cluster is green, the system is active and “on alert.”
	If the warning lamp in the instrument cluster is yellow, the system is active but NOT “on alert.” In this condition, Audi Lane Assist does NOT assist the driver and gives no alert warnings. Possible reasons for deactivation are given on the following page.
	If the Audi Lane Assist warning lamp is not lit, then the **system is inactive**. To activate the system, push the Audi Lane Assist button on the turn signal indicator stalk.

A Yellow Warning Lamp in the Instrument Cluster Could be Caused by the Following:

- There is Only One or No Lane Marker.
- The System is Not Detecting Lane Markers (for example, due to snow, dirt, moisture, backlight).
- There are More than Two Lane Markers in the Lane in which the Vehicle is Traveling (for example, white and yellow markers).
- The Vehicle is Traveling at Less than the Minimum Activation Speed of Approximately 40 mph (65 kph).
- The Lane is Narrower than Approximately 8 ft (2.5 m) or Wider than 16 ft (5 m).
- The Curve is too Tight (curve radius less than approximately 820 ft (250 m).

Additional Function Displays — Audi A4 and A5 Coupe

An Audi A4 or A5 equipped with Adaptive Cruise Control and Audi Lane Assist will have the following displays:



398_024

The graphic display indicates the following:

- **Adaptive Cruise Control:**
  Active, the System has Detected a Vehicle.

- **Audi Lane Assist:**
  Not Installed or Switched Off.



398_025

The graphic display indicates the following:

- **Adaptive Cruise Control:**
  Off or in Standby Mode.

- **Audi Lane Assist:**
  Not Installed or Switched Off.

Displays



398_026

The graphic display indicates the following:

– **Adaptive Cruise Control:**
Active, the System has Detected a Vehicle.

– **Audi Lane Assist:**
Switched On, but Inactive (not “on alert”).



398_027

The graphic display indicates the following:

– **Adaptive Cruise Control:**
Active, the System has Detected a Vehicle.

– **Audi Lane Assist:**
Switched On and Active (“on alert”).



398_028

The graphic display indicates the following:

– **Adaptive Cruise Control:**
Active, the System has Not Detected a Vehicle.

– **Audi Lane Assist:**
Switched On, Active (“on alert”) and Alert Warning on Left-Hand Side.



398_029

The graphic display indicates the following:

– **Adaptive Cruise Control:**
No ACC Installed.

– **Audi Lane Assist:**
Switched On, Active (“on alert”) and Alert Warning on Right-Hand Side.

On vehicles equipped with Audi Lane Assist and a “low line” instrument cluster, the displays will appear as follows:



398_030

The graphic display indicates the following:

– **Adaptive Cruise Control:**
No ACC Installed.

– **Audi Lane Assist:**
Switched Off.



398_031

The graphic display indicates the following:

– **Adaptive Cruise Control:**
No ACC Installed.

– **Audi Lane Assist:**
Switched On, but Inactive (not “on alert”).



398_032

The graphic display indicates the following:

– **Adaptive Cruise Control:**
No ACC Installed.

– **Audi Lane Assist:**
Switched On, Active (“on alert”).
(Neither of the two lane markers is flashing! No warning is given.)



398_033

The graphic display indicates the following:

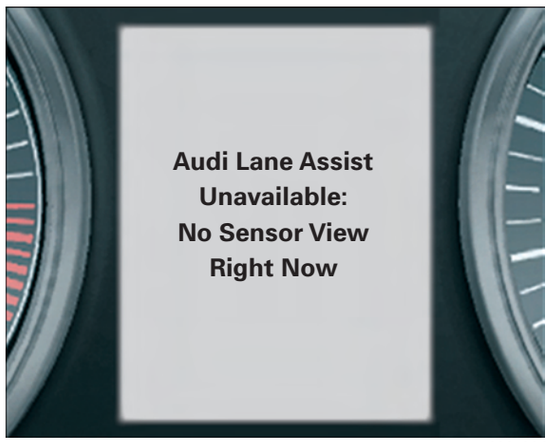
– **Adaptive Cruise Control:**
No ACC Installed.

– **Audi Lane Assist:**
Switched On and Active (“on alert”)
(The right lane marker is flashing. This means that Audi Lane Assist is alerting the driver to the fact that the vehicle has crossed the right lane marker!)

Text Messages in Instrument Cluster Center Display

The message “Audi Lane Assist Unavailable: No Sensor View Right Now” may be displayed for the following reasons:

1. The exterior of the camera viewing window is dirty or covered with ice. In this event, the driver should de-ice or clean the viewing window as required.
2. The camera viewing window is misted on the inside. In this case, it is recommended to wait until the system has been de-misted.
3. No lane markings are detectable due to the prevailing road conditions (for example, snow-covered or dirty).



398_004

The message “Audi Lane Assist Currently Unavailable” is displayed when a temporary fault occurs. An attempt should be made to activate the system a short time later.

This can, for example, be due to excess temperature inside the control module.



398_004

The message “Audi Lane Assist Unavailable: System Fault” is displayed in the event of a fault of such severity that it is necessary to take the vehicle to an Audi dealership.

Audi Lane Assist should be checked by an authorized dealer at the next opportunity.

Possible reasons for this are a faulty control module, a faulty vibration motor, or a faulty Audi Lane Assist button.

The same display appears when the control module determines the system needs to be calibrated.



398_004

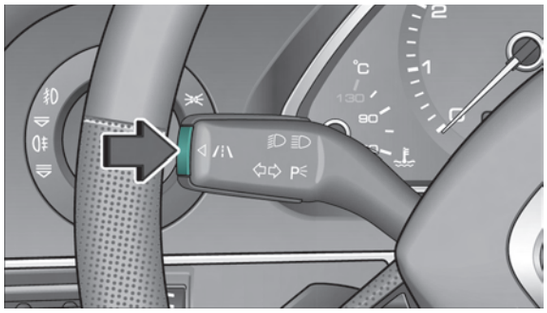
Notes

Switching System On and Off

The Directional Stabilization Assistance Button E517 is integrated in the turn signal indicator stalk. Pushing the button switches the system on or off.

Current system status is indicated by the warning lamp on the dash panel insert. The system is “on” when the warning lamp is lit and “off” when the lamp is not lit.

Actual activation status is stored and assigned to the corresponding ignition key. This means if the Audi Lane Assist was active the last time the ignition was switched on, the system is reactivated the next time the ignition is switched on using the same key.

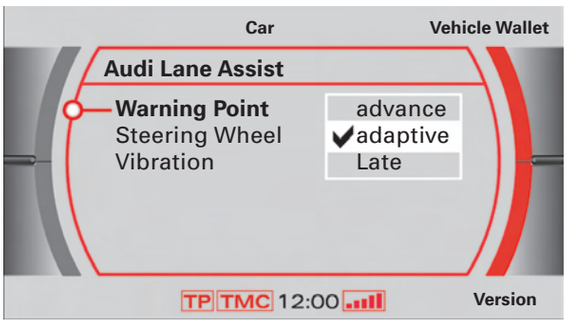


398_022

Setting the Warning Point

The driver can decide whether an alert warning is to be given before the vehicle inadvertently leaves the lane or not until a wheel makes contact with the lane marker. There are three possible warning point settings on the MMI. The relevant submenu can be accessed as follows:

- Press the Function Key “Car” on the MMI Control Panel
- Select “Systems”
- Select the “Audi Lane Assist” System
- Open the Options Menu of “Warning Point”
- Set the Warning Point to “Advance,” “Adaptive,” or “Late”



398_005

Notes on Warning Point Setting Options

Advance

In this setting, the driver is warned before a wheel makes contact with the detected lane marker. The warning point is dependent on the angle of approach to the lane marker. If the vehicle approaches the lane marker at an obtuse angle, the warning is given at a greater distance from the lane marker. If the vehicle approaches the lane marker at an acute angle, the warning is given when the wheel makes contact with the line.

Adaptive

In this setting, the warning point is adapted to the course of the road and the speed at which the vehicle is traveling. Alert warnings are given later in curves and earlier on straight sections of road. Alert warnings are given later on narrow roads than on wide roads.

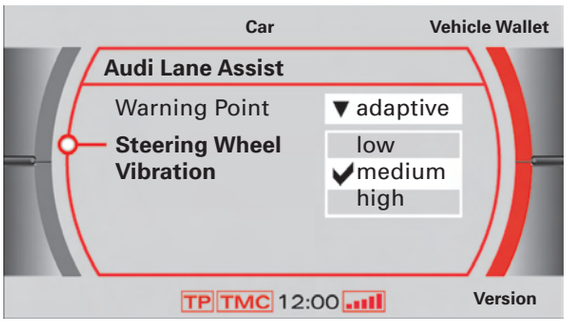
Late

In this setting, a warning is given before a wheel makes contact with the detected lane marker.

Setting the Steering Wheel Vibration Level

The driver can choose between three different settings for steering wheel vibration level on the MMI. The corresponding submenu is accessed as follows:

- Press the Function Key “Car” on the MMI Control Panel
- Select “Systems”
- Select the “Audi Lane Assist” System
- Open the Options Menu of “Steering Wheel Vibration”
- Set the Steering Wheel Vibration Level to “Low”, “Medium,” or “High” as Desired



398_006

After setting the steering wheel vibration level, the steering wheel vibrates once at the level set. This allows the driver to immediately experience the set vibration level.

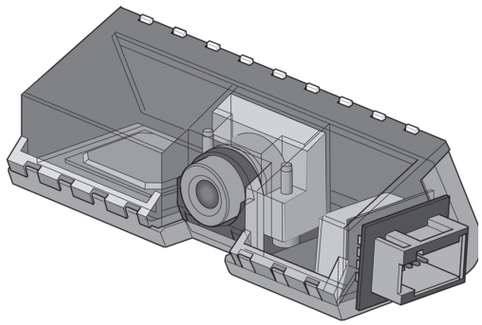
Note

The Audi Lane Assist settings on the MMI are stored when the ignition is switched off and assigned to the corresponding ignition key.

The settings of the ignition key currently in use are reactivated after the ignition is switched on.

Directional Stabilization Assistance Control Module J579 With Camera

The Audi Lane Assist control module and the camera are an integral unit and can only be replaced as a unit.



398_007

The image acquisition sensor scans the road ahead of the vehicle in the form of a black and white image. It has a resolution of 640 x 480 pixels. The image acquisition sensor has a lens with a focal length of 6 mm.

The camera has an optical range of up to 197 ft (60 m) Environmental influences may reduce the camera optical range. If the optical range falls below the minimum level, the system switches over to “not on alert” status.

Electronic Image Processing

The black and white image made by the image acquisition sensor is analyzed by image processing software. First, the system scans the image for lane markers. If the system detects lane markers on both sides of the vehicle, it calculates the width and curvature of the lane.

In addition to this, the software calculates the position of the vehicle in the lane, for example, the distance from the vehicle to the left or right lane marker and the angle of approach to the lane marker. The image processing software also assesses the quality of road recognition.

The warning point is determined from the calculated values and the known measurements of the vehicle. Different methods of calculation are used depending on which warning point is set on the MMI. The measurements are also required to establish whether or not to temporarily deactivate the function due to the road geometry.



398_008

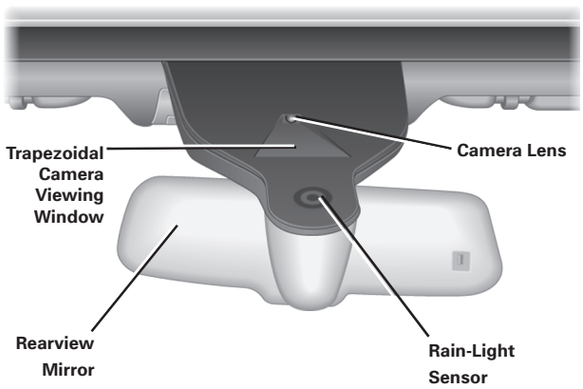
Note

Image 398_008 has been acquired using special software designed by the Audi technical development center. It does not appear on the MMI display.

Installation Location

Directional Stabilization Assistance Control Module J759 is clipped into a holder and is mounted on the windshield. The holder is glued to the windshield and is supplied with the windshield as a service part. Audi is currently working on a service solution which will allow the holder to be replaced separately.

The holder is not visible from the exterior. It is located behind the black print on the windshield. Only the trapezoidal camera viewing window is visible. The camera viewing window is positioned within the wiping field of the windshield wipers to minimize visibility impairment from rain and snow.



398_009

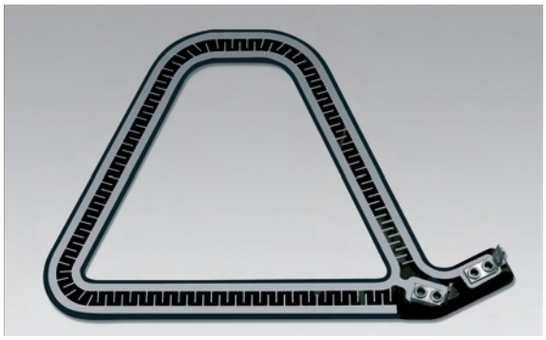
Note

Vehicles with Audi Lane Assist are always equipped with a rain-light sensor.

Directional Stabilization Assistance Windshield Heater Z67

Audi Lane Assist has a heated camera viewing window which de-mists and de-ices the camera viewing window in combination with the windshield wipers.

Directional Stabilization Assistance Windshield Heater Z67 is an etched foil resistance heating element. It is glued directly onto the windshield. The heater has two terminals. One terminal is for battery voltage and is supplied by Directional Stabilization Assistance Control Module J759 while the other is connected to battery ground.



398_011

A multiplicity of parallel resistors on the etched foil resistance heating element generate heat by allowing electrical current to flow through them. The heated resistors heat the windshield. This eliminates misting and thaws ice to the extent that it can be removed by the windshield wiper. The etched foil resistance heating element surrounds the windshield section through which the Audi Lane Assist camera scans the road ahead of the vehicle.

Directional Stabilization Assistance Windshield Heater Z67 is activated if the image generated by image sensor does not have enough contrast. If the image does not have enough contrast, the lane markers cannot be identified sufficiently and the function switches over to “not on alert” status.

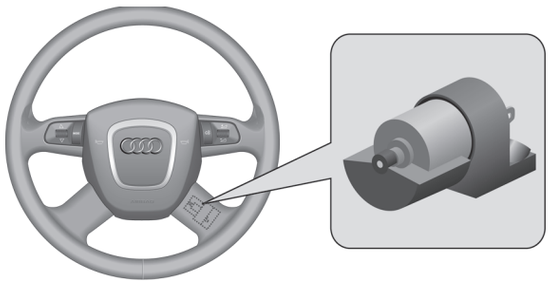
Once the image has enough contrast for purposes of lane detection, the windshield heater is reactivated. If visibility impairment cannot be eliminated by the heater (for example, due to dirt), the driver is notified of this fact by a text message.

Vibrating Steering Wheel

The steering wheel has a motor which produces a vibration in the steering wheel. The motor is integrated in the bottom right steering wheel spoke.

Steering wheel vibrations are produced by the rotation of a weight attached to the motor. The motor cannot be replaced separately. If the motor is faulty, the entire steering wheel assembly must be replaced.

The duration of steering wheel vibration is dependent on the driver's reaction and usually lasts about one second.



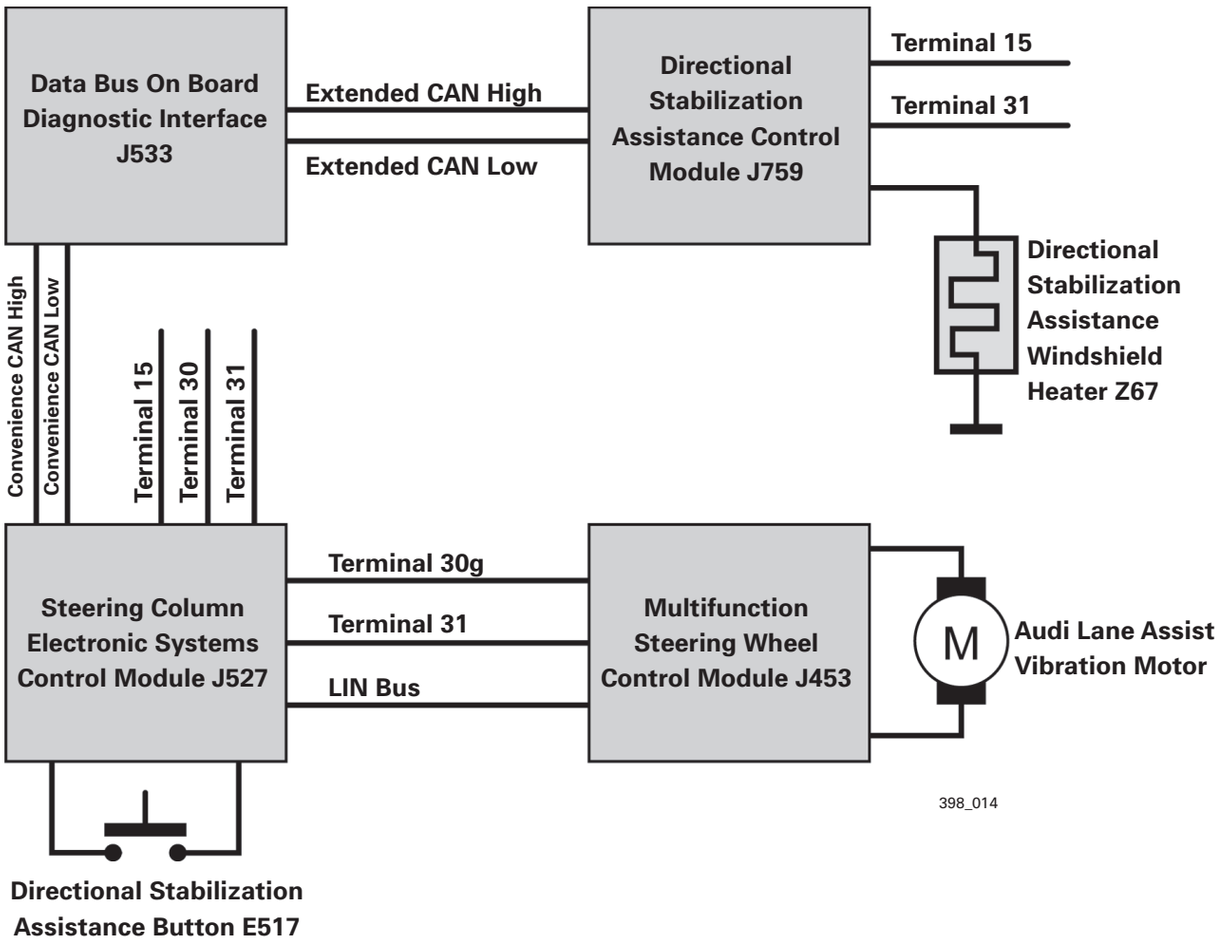
398_013

Note

Vehicles with Audi Lane Assist require a multifunction steering wheel. This is because the vibration motor is activated by the multifunction steering wheel electronics. The vibration motor is always integrated in a 4-spoke steering wheel.

Notes

System Overview



Directional Stabilization Assistance Windshield Heater Z67

Directional Stabilization Assistance Windshield Heater Z67 is activated directly by the Audi Lane Assist control module. Only one terminal is required for this purpose. The windshield heater is assigned to a ground terminal on the vehicle.

Directional Stabilization Assistance Button E517

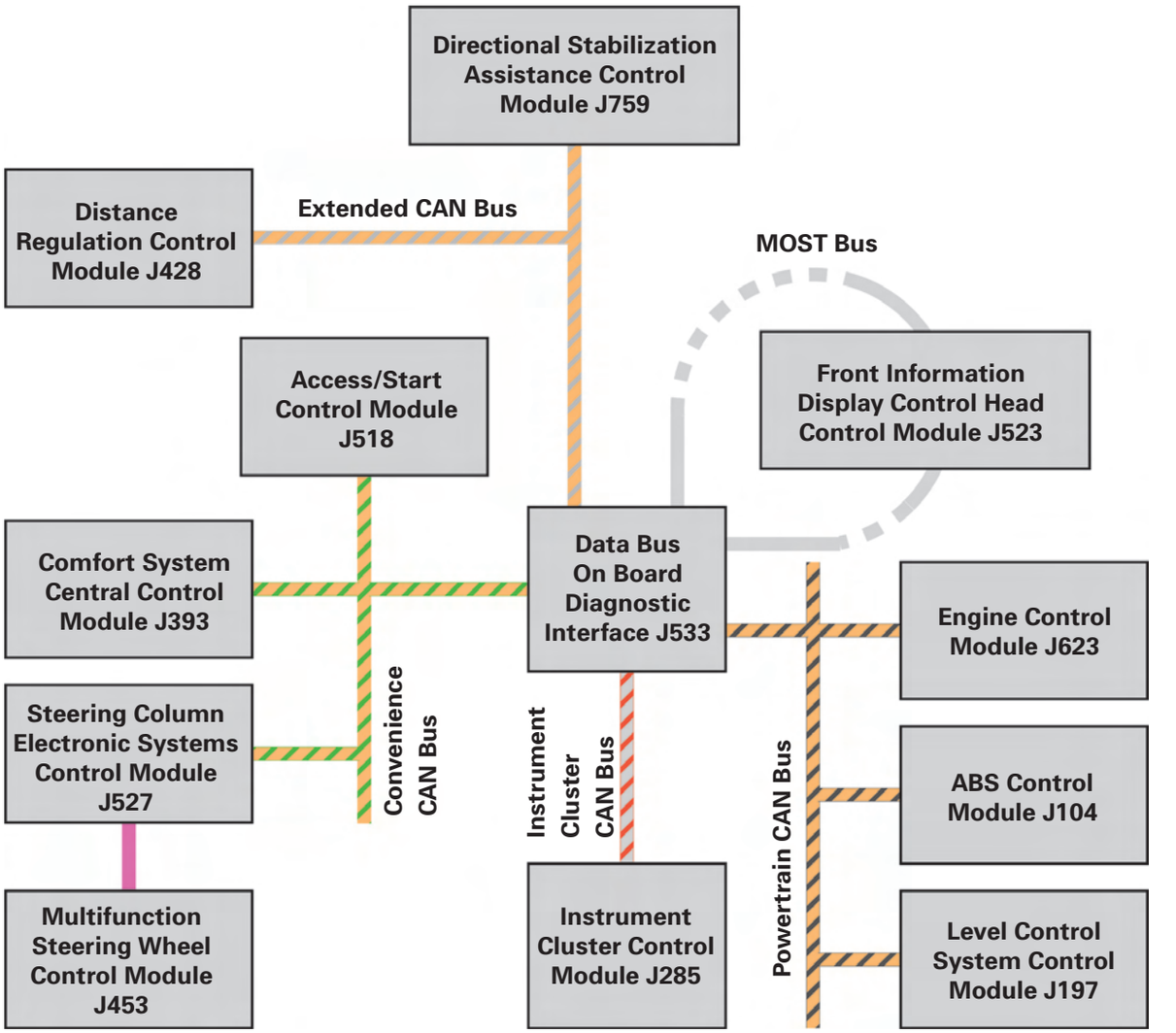
Directional Stabilization Assistance Button E517 communicates through Steering Column Electronic Systems Control Module J527. It is integrated in the turn signal indicator stalk.

Audi Lane Assist Vibration Motor

The Audi Lane Assist vibration motor is activated by the Multifunction Steering Wheel Control Module J453. It is integrated in a steering wheel spoke.

Notes

Audi Lane Assist Topology



398_015

Extended CAN Users

1. **Distance Regulation Control Module J428**

   To avoid warnings being given simultaneously by Audi Lane Assist and Active Cruise Control, Audi Lane Assist suppresses its steering wheel vibration warning if the Active Cruise Control system simultaneously activates the brake.

Convenience CAN Bus Users

2. **Access/Start Control Module J518**

   J518 transmits information on which ignition key is currently recognized by the vehicle. Directional Stabilization Assistance Control Module J759 utilizes this information to assign stored driver settings to the corresponding ignition key.

3. **Comfort System Central Control Module J393**

   J393 transmits information on whether the left or right turn signal indicator is currently active.

4. **Steering Column Electronic Systems Control Module J527**

   J527 transmits information on whether the Audi Lane Assist button on the steering column stalk is being actuated or not.

   J527 receives from Audi Lane Assist the information on whether or not to activate the driver alert vibration motor. This information is then sent via a LIN bus message to the Multifunction Steering Wheel, which activates the vibration motor.

MOST Bus Users

5. **Front Information Display Control Head Control Module J523**

   J523 transmits changes in driver settings relevant to the “Audi Lane Assist” function to Directional Stabilization Assistance Control Module J759. The new settings are then saved and assigned to the ignition key currently in use.

Powertrain CAN Bus Users

6. **Engine Control Module J623**

   J623 transmits the current engine speed. Audi Lane Assist requires this data, because the activation times of the windshield heater are dependent on whether the engine is running or not. (No heating phases are allowed at “engine off”.)

7. **Level Control System Control Module J197**

   J197 keeps Audi Lane Assist informed at all times about the actual height of the dampers on the vehicle. This data is required for electronic correction of the current camera height, as well as the pitch and roll angle of the camera.

8. **ABS Control Module J104**

   J104 supplies the vehicle speed signal required for activating or deactivating Audi Lane Assist, as well as the yaw velocity.

Convenience CAN Bus Users

9. **Instrument Cluster Control Module J285**

   J285 receives information on the current status of Audi Lane Assist for activating the warning lamp (yellow, green, or off) on the instrument cluster.

   J285 receives information on whether or not to display a text message and, if so, what text message.

Notes

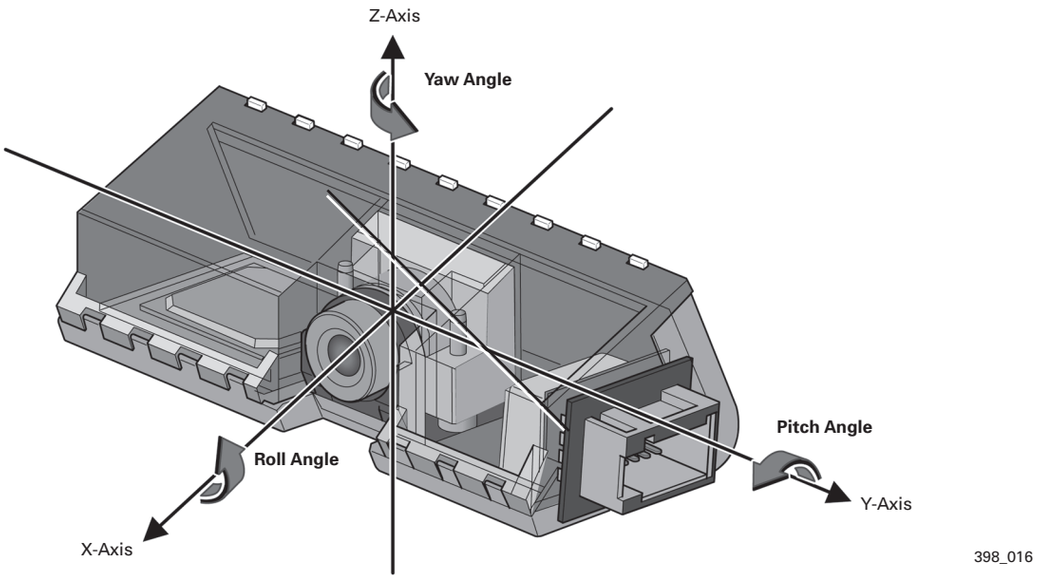
Calibration

The calibration procedure involves determining the actual orientation angle of the camera on the vehicle. To make an exact determination, the installed position of the camera on the vehicle must be known. Deviations from the nominal installed position can occur due to component tolerances of the holder or windshield or because of manufacturing tolerances.

The system must be calibrated in order to compensate for these effects. The calibration procedure involves determining the three orientation angles of the camera in relation to the vehicle's direction of travel, as well as the height at which the camera is installed in relation to the tire contact area. The calibration is made electronically. There are no mechanical adjustments on the camera.

The three orientation angles are as follows:

– Roll Angle (Rotation about the X-axis).
– Pitch Angle (Rotation about the Y-axis).
– Yaw Angle (Rotation about the Z-axis).



Calibration Principle

The orientation angles of the Audi Lane Assist camera cannot be determined directly. They are calculated using a calibration board. The calibration board consists of geometric elements which contrast distinctly with the rest of the board.

The board is aligned in a reference position in front of the vehicle. The camera then records images of the calibration board. The position of the geometric elements on the image is determined. A software routine uses the image coordinates and the known reference position of the board to determine the actual orientation angle of the camera, and stores this information in the control module. The actual height of the camera on the vehicle is also determined.

New Special Calibration Tools

New special tools are required for calibrating Audi Lane Assist. They belong to tool family VAS 6430. This device can be used for calibrating both Audi Lane Assist and Active Cruise Control ACC.

Special tool VAS 6430 is a complete set and includes the following separately available components:

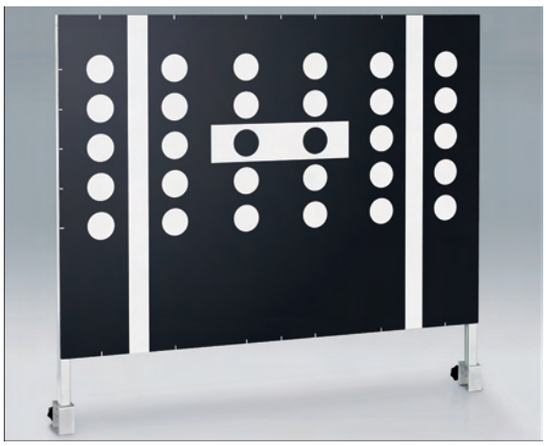
— VAS 6430/1 Calibration Device Basic Set.
— VAS 6430/2 ACC Laser Unit (VW).
— VAS 6430/3 ACC Reflector Mirror (Audi).
— VAS 6430/4 Audi Lane Assist Calibration Board.



VAS 6430/1 Calibration Device (Basic set) 398_017

The VAS 6430 complete set is intended for dealers who are not equipped with an ACC calibration device.

Dealers who already have an ACC calibration device VAS 6190 need only order the components VAS 6430/1 and VAS 6430/4 to have a complete calibration device suitable for both systems. The existing ACC laser unit by VW and the ACC reflector mirror by Audi can be attached to new calibration device VAS 6430/1.



VAS 6430/4 Audi Lane Assist Calibration Board 398_018

Note

The calibration board for Audi Lane Assist VAS 6430/4 does not attach to ACC calibration device VAS 6190.

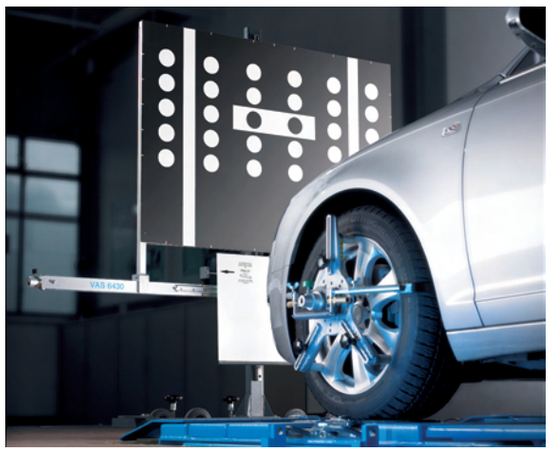
System Calibration

Required Calibration Tools

The following tools are required to calibrate the Audi Lane Assist system:

Special tool VAS 6430 is a complete set and includes the following separately available components:

— Diagnostic Tester (VAS 5051B or VAS 5052).
— Approved Wheel Alignment Computer Including Wheel Alignment Lift.
— Calibration Tools VAS 6430/1 and VAS 6430/4.



398_020

When is it Necessary to Calibrate the System?

The Audi Lane Assist system must be calibrated for the following reasons:

— The Fault Memory Contains the Entry “No or Incorrect Basic Settings/Adaption.”
— Directional Stabilization Assistance Control Module J759 has been Replaced.
— The Windshield has been Replaced or Removed.
— Rear Axle Toe has been Adjusted.
— Modifications Affecting Body Height have been Made to the Vehicle Suspension System.
— The Level Sensors on Vehicles with Damping Control or Air Suspension have been Re-adapted.

Calibration Procedure

For details of the exact calibration procedure, refer to the Workshop Manual. The main calibration steps are described below:

— The “Calibration Audi Lane Assist” Program is Started on the Wheel Alignment Computer.
— Quick Release Clamps are Mounted on All Four Wheels.
— Transducers are Mounted on the Rear Two Wheels.
— Wheel Runout Compensation is Performed on the Rear Wheels.
— Two Transducers are Attached to VAS 6430.
— The Calibration Device VAS 6430 is aligned with the Direction of Travel in Several Steps using the Wheel Alignment Computer as a Guide.
— Calibration Program on the Scan Tool is Started under “Guided Fault Finding.”
— Body Height is Measured at the Front Left and Right Wheel Arch Edges as Well as at the Rear Left and Right Wheel Arch Edges and Entered into the Program.
— The Calibration Routine then Automatically Runs to Completion.

On-Line Calibration

The system also has an “On-Line Calibration” function. In on-line calibration mode, the Audi Lane Assist system checks while the vehicle is being driven whether the yaw and pitch angle have changed during the calibration.

Any changes are incorporated into the values

— Yaw Angle Offset
— Pitch Angle Offset

and are taken into account by the system. The values are represented in a data block. The two values are reset to zero during the next calibration.

Diagnostics

Directional Stabilization Assistance Control Module J759 has full self-diagnostic capability. Data blocks, adaption channels, output checks, control module codings, basic settings and fault memory entries are available.

Directional Stabilization Assistance Control Module J759 is accessed by the Scan Tool through Address Word 5C.

Data Blocks on the Function

The following values can be read out under the menu item “Data Blocks”:

— Control Module Supply Voltage.
— Measured Temperature in Control Module.
— Windshield Heater Status.
— Reason for Activation or Deactivation of the Windshield Heater.
— Geometric Lane Data Determined by the Image Processor, e.g.
  – Lane Width.
  – Current Curve Radius.
— Audi Lane Assist System Status (off/on, active/on, inactive).
— Audi Lane Assist Warning Status (warning inactive/active; if active due to left/right hand side warning).
— Audi Lane Assist Button Status (pressed/not pressed).
— Left Turn Signal Indicator Function (active/inactive), Right Turn Signal Indicator Function (active/inactive).
— Actual Height Values Generated by the Four Vehicle Level Sensors (if air suspension is installed on the vehicle).
— Set Warning Point and Warning Vibration Level.
— Saved Personalized Settings Assigned to the Individual Remote Control Keys (system status, warning point and vibration level).
— Vibration Motor: Fault Detected (yes/no); Audi Lane Assist Button: Fault Detected (yes/no); the Information is Supplied by Steering Column Electronic Systems Control Module J527.
— Status of Communication CAN with Control Modules which Transmit the Information that Audi Lane Assist Requires for Proper Operation.

Calibration Data Blocks

— Roll, Pitch, and Yaw Angles of the Camera
— Camera Height
— Reason for Failed Calibration
— Yaw and Pitch Angle Offset
— Information on the On-Line Calibration

Adaption Channels

It is possible to reset the complete system to its as-delivered condition via the Adaption Channels.

The following values can be found on the Adaption Channels:

— Body Height to be Measured at the Edges of the Wheel Arch During the Calibration:
  – Front Left.
  – Front Right.
  – Rear Left.
  – Rear Right.

Since the body height at the wheel arch edges is input into the diagnostic tester calibration program, these Adaption Channels are not required in practice.

Output Check Diagnosis

The following components can be activated via an Output Check Diagnosis:

— Directional Stabilization Assistance Windshield Heater Z67 can be Activated by Directional Stabilization Assistance Control Module J759. It Remains Active for Approximately 20 Seconds.

— The Vibration Motor Integrated in the Steering Wheel can be Activated by Initiating the Appropriate Output Check on Steering Column Electronic Systems Control Module J527.

— The Audi Lane Assist Warning Lamp in the Instrument Cluster can be Activated via Instrument Cluster Control Module J285 Together with the Other Warning Lamps.

Control Module Coding

The Control Module Coding provides the following vehicle information to Directional Stabilization Assistance Control Module J759:

— Audi Model in which the System is Installed.
— Market for which Vehicle is Intended: USA, Japan, United Kingdom, or Rest of World.
— Whether Vehicle has Air Suspension or Damping Control.
— Whether Vehicle has “Stopping Distance Reduction” (ACC) Function.

Basic Settings

The system calibration is implemented via Basic Settings. However, since the technician is guided step by step through the program during the calibration routine, the individual Basic Settings do not have to be started individually.

The Basic Settings are initiated automatically by the Scan Tool at the correct point in the program and therefore are executed entirely in the background.

Knowledge Assessment

An on-line Knowledge Assessment (exam) is available for this SSP.

The Knowledge Assessment may or may not be required for Certification.

You can find this Knowledge Assessment at:

www.accessaudi.com

From the accessaudi.com homepage:

- Click on the “ACADEMY” Tab
- Click on the “Academy Site” Link
- Click on the ”CRC Certification” Link

For assistance, please call:

Audi Academy

Learning Management Center Headquarters

1-877-AUDI-LMC (283-4562)

(8:00 a.m. to 8:00 p.m. EST)

Notes

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