

**ACCESSORIES & EQUIPMENT****Exterior Lights, Switches (Sedan)****94 EXTERIOR LIGHTS, SWITCHES****GENERAL INFORMATION****CONTACT CORROSION**

Contact corrosion can occur if incorrect fasteners (bolts, nuts, washers, etc.) are used.

For this reason, only fasteners with a special surface coating are used.

In addition, rubber or plastic parts and adhesive consist of non-conductive materials.

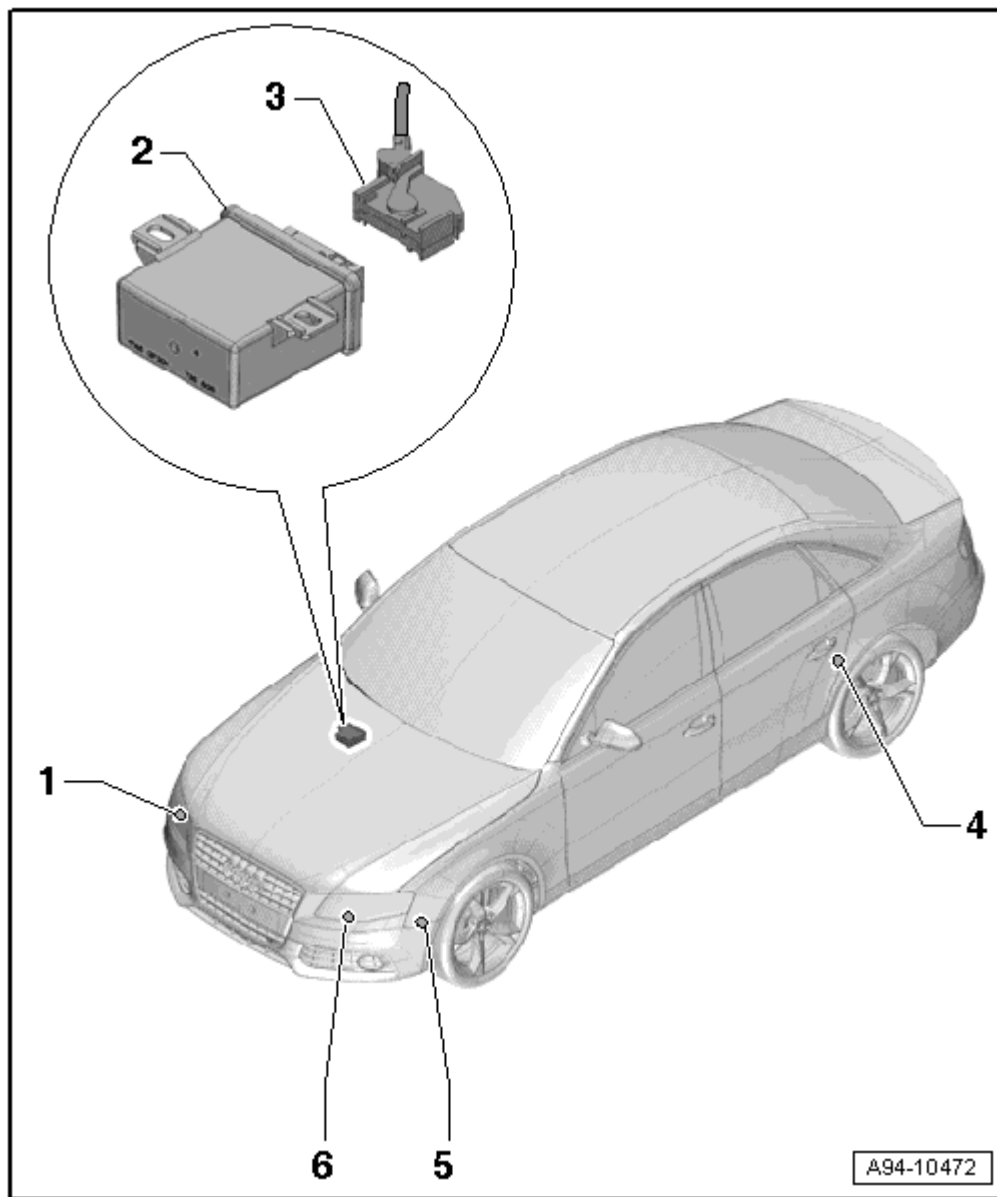
Note:

- We only recommend original replacement parts, they have been tested and are compatible with aluminum.
- We recommend using Audi accessories.
- Damage resulting from contact corrosion is not covered by warranty.

**XENON HEADLAMPS, USAGE AND SAFETY PRECAUTIONS**

For the High Intensity Discharge (HID) headlamp usage and safety precautions, refer to **General Information** .

**DESCRIPTION AND OPERATION****AUTOMATIC HEADLAMP VERTICAL AIM CONTROL OVERVIEW**



**Fig. 1: Automatic Headlamp Vertical Aim Control Overview**

Courtesy of AUDI OF AMERICA, LLC

1. Right Headlamp Beam Adjustment Motor -V49-

- Removing and installing:

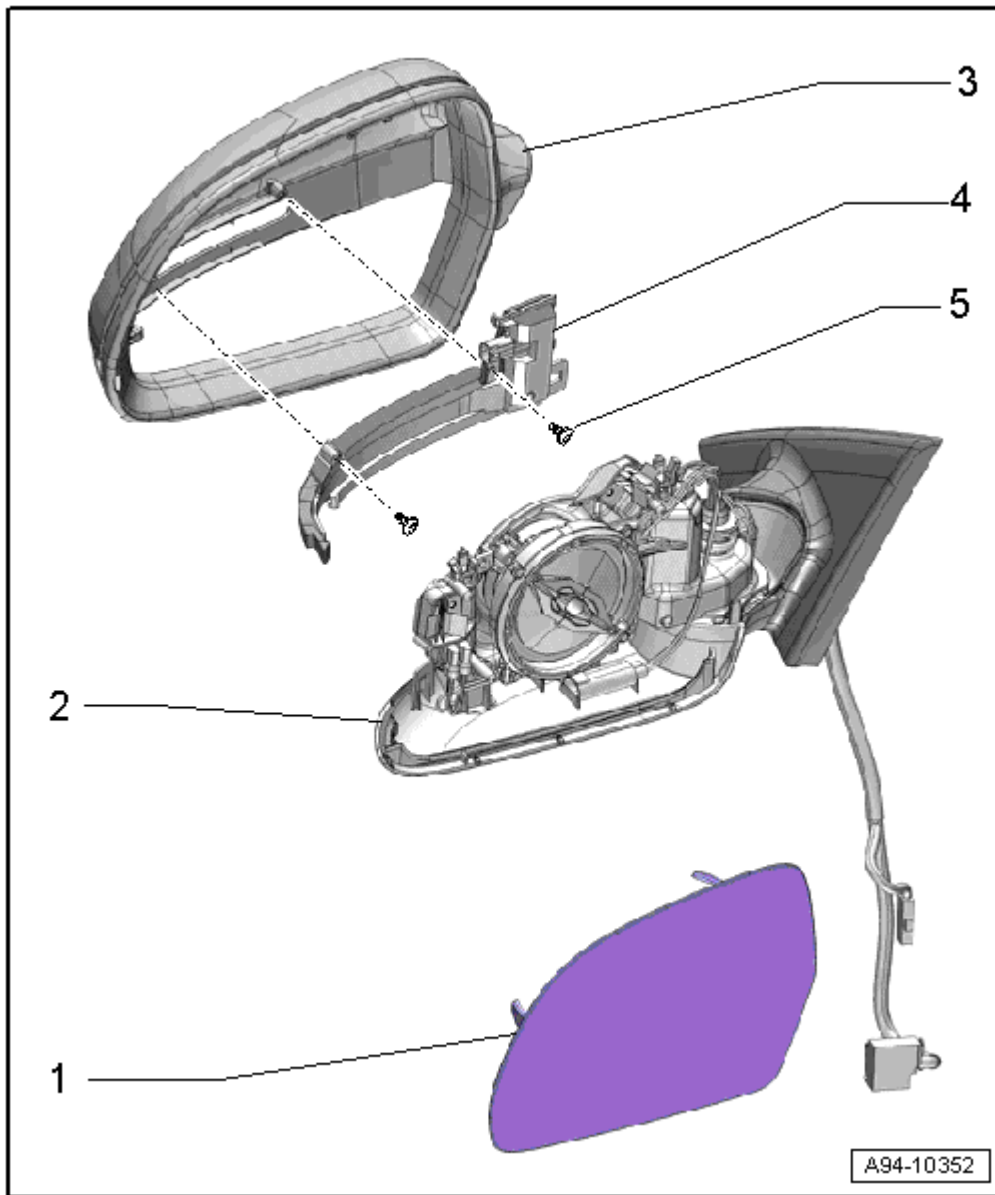
- through MY 2012 **HEADLAMP BEAM ADJUSTMENT MOTORS -V48- / -V49-**
- from MY 2013 **HEADLAMP BEAM ADJUSTMENT MOTOR -V48- / -V49-**

2. Control Module

- Vehicles without cornering lamp: Headlamp range control module -J431-
- Vehicles with cornering lamps: Headlamp range/cornering lamp control module -J745-
- Removing and installing, refer to **HEADLAMP RANGE CONTROL AND CORNERING LAMP AND HEADLAMP RANGE CONTROL MODULES -J431- / -J745-**.

- Integrated in the Vehicle electrical system control module -J519- depending on the date of manufacture from MY 2013.
3. Electrical Connector
  4. Left Rear Level Control System Sensor -G76-
    - Component location: On the left rear control arm.
    - Removing and installing, refer to **Removal and Installation** .
  5. Left Front Level Control System Sensor -G78-
    - Component location: On the left front control arm.
    - Installed depending on the date of manufacture.
    - Removing and installing, refer to **Removal and Installation** .
  6. Left Headlamp Beam Adjustment Motor -V48-
    - Removing and installing:
      - through MY 2012 **HEADLAMP BEAM ADJUSTMENT MOTORS -V48- / -V49-**
      - from MY 2013 **HEADLAMP BEAM ADJUSTMENT MOTOR -V48- / -V49-**

**EXTERIOR REARVIEW MIRROR TURN SIGNALS THROUGH 05.09, OVERVIEW**

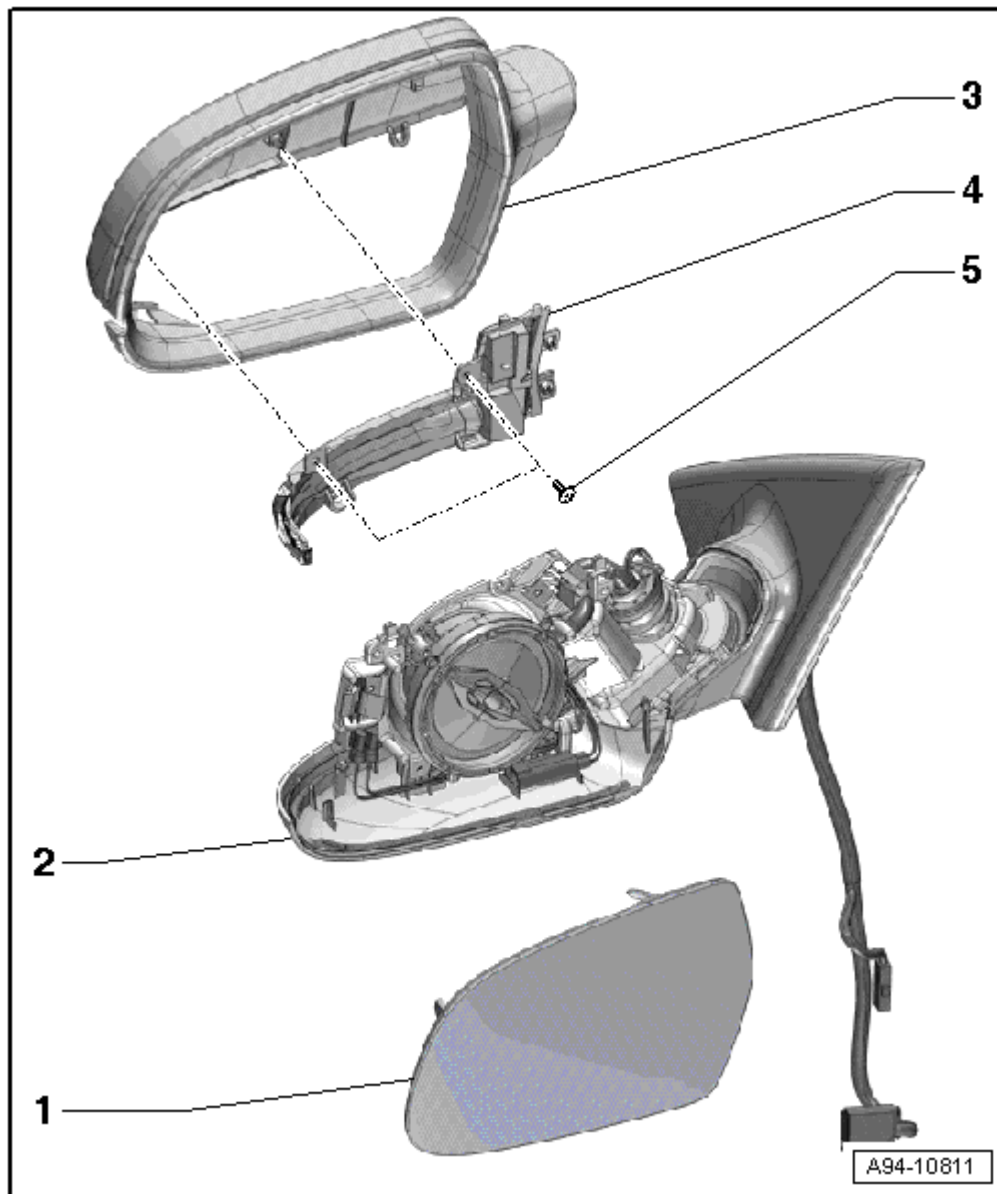


**Fig. 2: Exterior Rearview Mirror Turn Signals, Assembly Overview**  
Courtesy of AUDI OF AMERICA, LLC

1. Mirror Glass
2. Mirror Adjusting Unit Mount
3. Exterior Rearview Mirror Housing
4. Exterior Rearview Mirror Turn Signal Bulb
  - Driver exterior rearview mirror turn signal bulb -L131-.
  - Front passenger exterior rearview mirror turn signal bulb -L132-.
  - Removing and installing, refer to **EXTERIOR MIRROR TURN SIGNAL LAMPS, THROUGH 05.09.**
5. Screw

- 0.9 Nm

**EXTERIOR REARVIEW MIRROR TURN SIGNALS FROM 06.09, OVERVIEW**



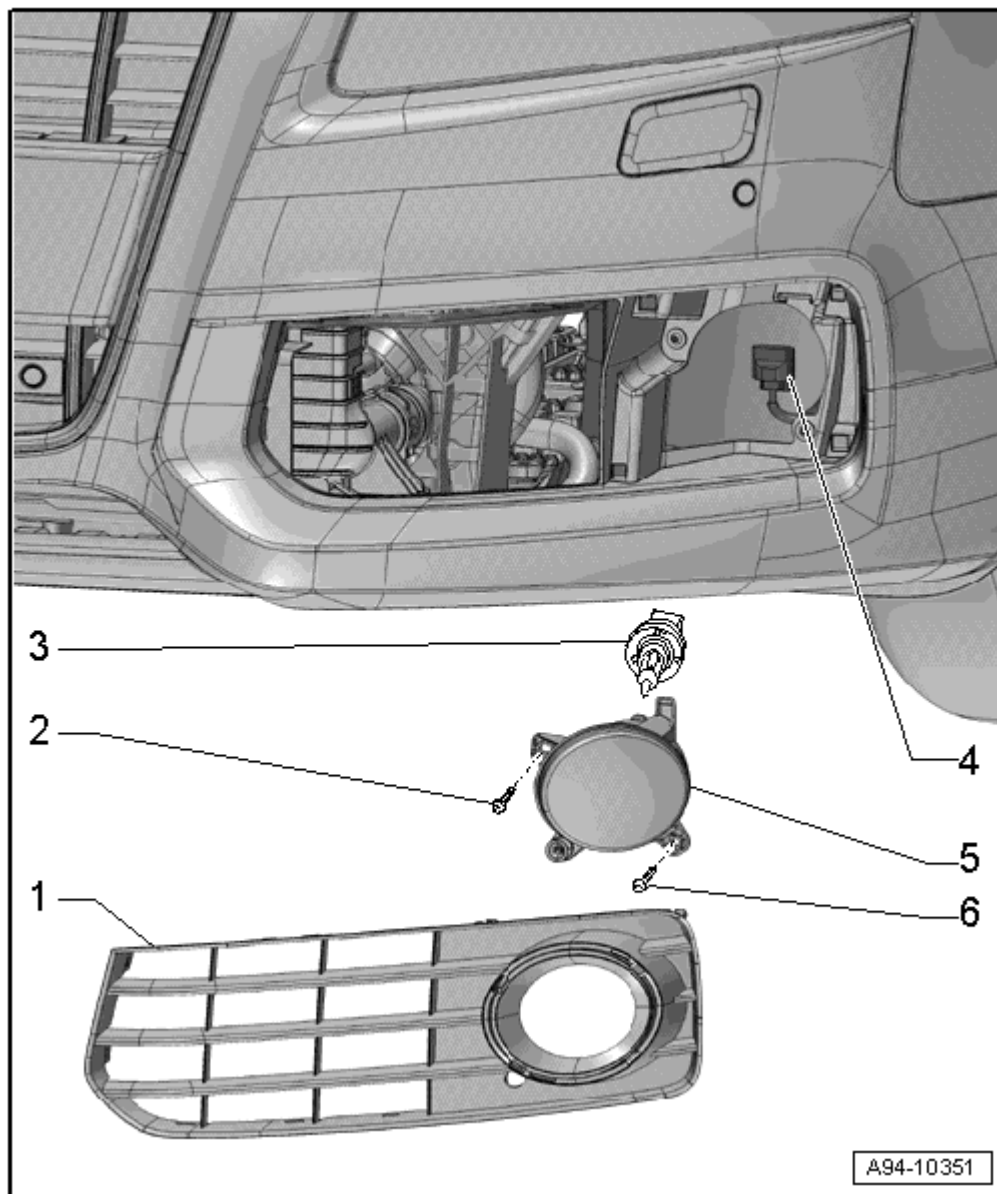
**Fig. 3: Exterior Rearview Mirror Turn Signals From 06.09, Overview**  
 Courtesy of AUDI OF AMERICA, LLC

1. Mirror Glass
2. Mirror Adjusting Unit Mount
3. Exterior Rearview Mirror Housing
4. Exterior Rearview Mirror Turn Signal Bulb
  - Driver exterior rearview mirror turn signal bulb -L131-.

- Front passenger exterior rearview mirror turn signal bulb -L132-.
- Removing and installing, refer to **EXTERIOR MIRROR TURN SIGNAL LAMPS, FROM 06.09.**

## 5. Screw

- 0.9 Nm

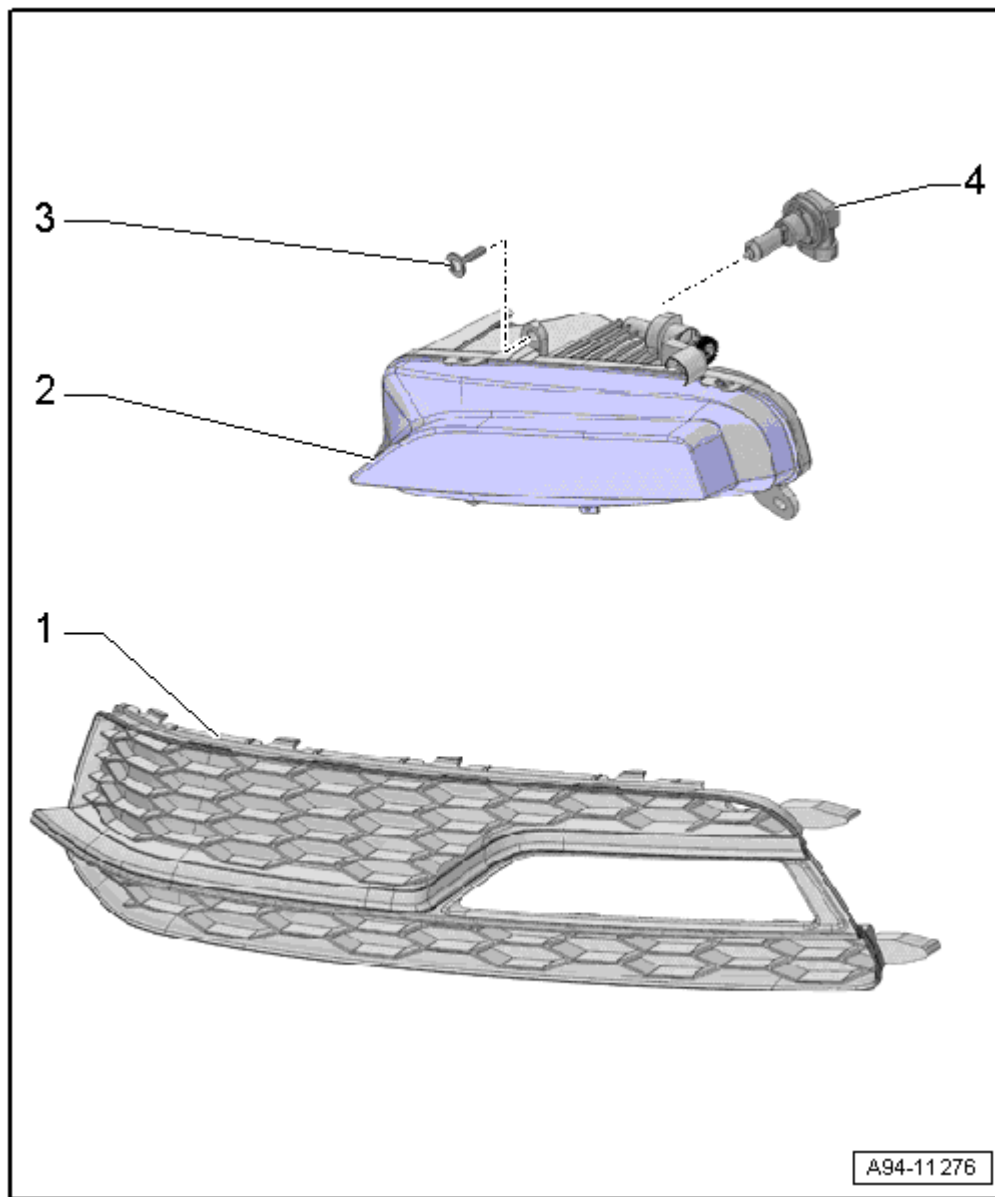
**FOG LAMP OVERVIEW, THROUGH MY 2012**

**Fig. 4: Fog Lamp Overview, Through My 2012**  
Courtesy of AUDI OF AMERICA, LLC

1. Air Inlet Grille
2. Screw

- 4.5 Nm
- 3. Fog Lamp Bulb
  - Left front fog lamp bulb -L22-.
  - Right front fog lamp bulb -L23-.
  - 12 V, 55 W (H11)
  - Removing and installing, refer to **BULBS -L22- / -L23-**.
- 4. Electrical Connector
- 5. Fog Lamp
  - Removing and installing, refer to **LAMP**.
- 6. Screw
  - 4.5 Nm

**FOG LAMPS OVERVIEW, FROM MY 2013**



**Fig. 5: Fog Lamps Overview, From My 2013**

Courtesy of AUDI OF AMERICA, LLC

1. Air Inlet Grille
2. Fog Lamp
  - There are different versions.
  - Removing and installing, refer to **FOG LAMP**.
3. Bolt
  - 4.5 Nm
  - Quantity: 3
4. Fog Lamp Bulb
  - Left front fog lamp -L22-

## 2012 Audi S4

### ACCESSORIES & EQUIPMENT Exterior Lights, Switches (Sedan)

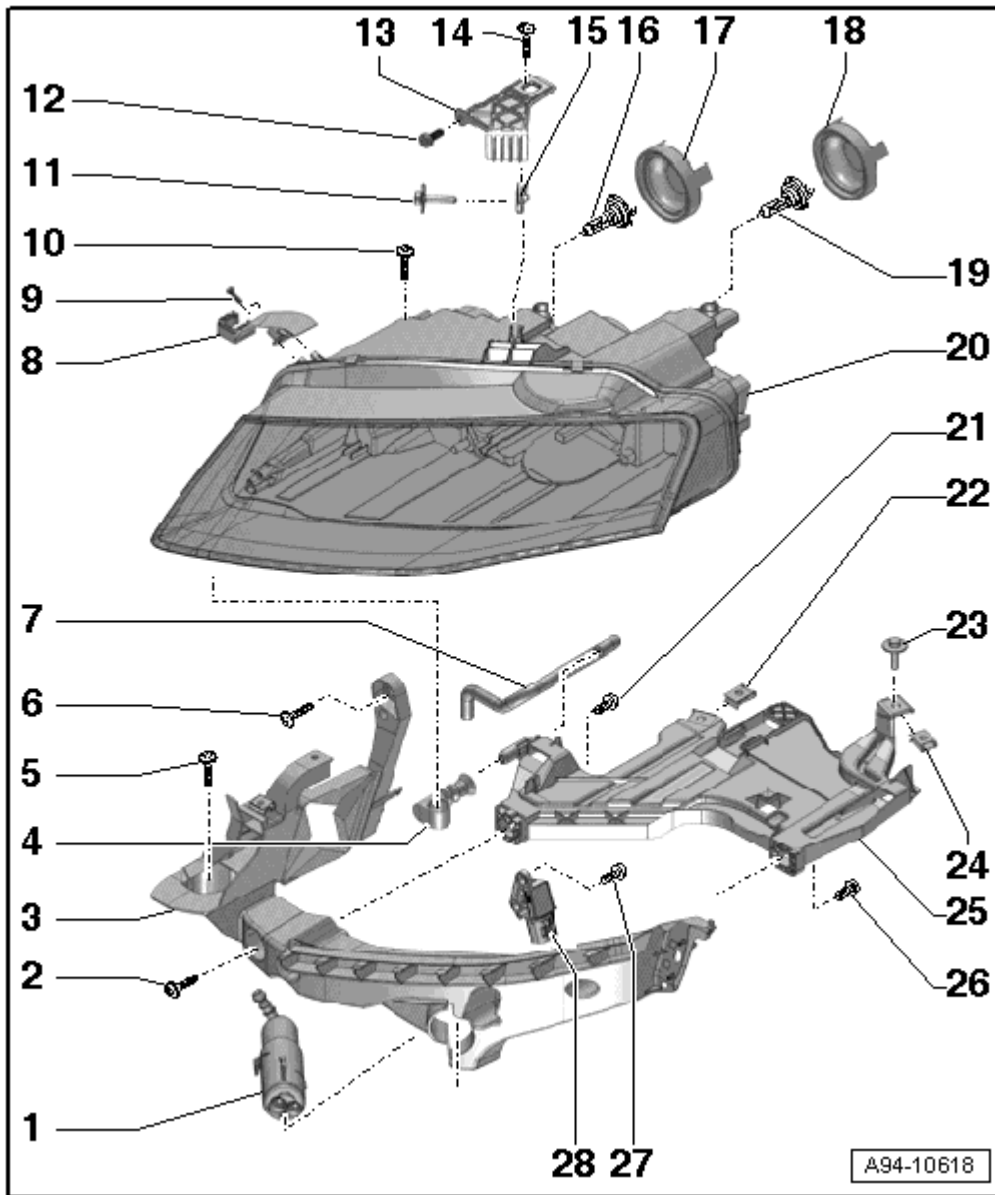
- Right front fog lamp -L23-
- 12 V, 35 W (H8)
- Removing and installing, refer to FOG LAMP BULBS -L22- / -L23-.

#### HALOGEN HEADLAMP OVERVIEW, THROUGH MY 2012

Observe the notes on contact corrosion. Refer to CONTACT CORROSION.

**NOTE:** Headlamps must be adjusted after performing measures that could influence the headlamp adjustment. Refer to HEADLAMPS AND FOG LAMPS, CHECKING AND ADJUSTING.

Part 1



**Fig. 6: Halogen Headlamp Overview**

Courtesy of AUDI OF AMERICA, LLC

1. Headlamp Washer System Spray Nozzle
2. Screw
  - Tightening specification, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
3. Bracket
  - Overview, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
4. Vent Tube Adapter
  - For the headlamp.
5. Screw

- Tightening specification refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
6. Screw
    - Tightening specification refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
  7. Ventilation Hose
    - Tightening specification refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
  8. Bracket
  9. Screw
    - 1.8 Nm
  10. Screw
    - 4.5 Nm
  11. Screw
    - 4.5 Nm
  12. Screw
  13. Bracket
  14. Screw
    - 4.5 Nm
  15. Speed Nut
  16. High Beam Bulb
    - Left high beam headlamp bulb -M30-
    - Right high beam headlamp bulb -M32-
    - 12 V, 55 W (H7)
    - Replacing, refer to **HIGH BEAM BULBS -M30- / -M32-**.
  17. Cap
    - For the high beam bulb.
  18. Cap
    - For the low beam bulb.
  19. Low Beam Bulb
    - Left low beam headlamp bulb -M29-
    - Right low beam headlamp bulb -M31-
    - 12 V, 55 W (H7)
    - Replacing, refer to **LOW BEAM BULB -M29- / -M31-**.
  20. Headlamp
    - The front side marker lamp bulb is an Light Emitting Diode (LED) and is integrated in the headlamp. The LED cannot be replaced. The entire headlamp must be replaced.
    - Removing and installing, refer to **HEADLAMP.**

## 21. Screw

- Tightening specification, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**

## 22. Speed Nut

## 23. Screw

- Tightening specification, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**

## 24. Speed Nut

## 25. Bracket

- Overview, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**

## 26. Screw

- Tightening specification, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**

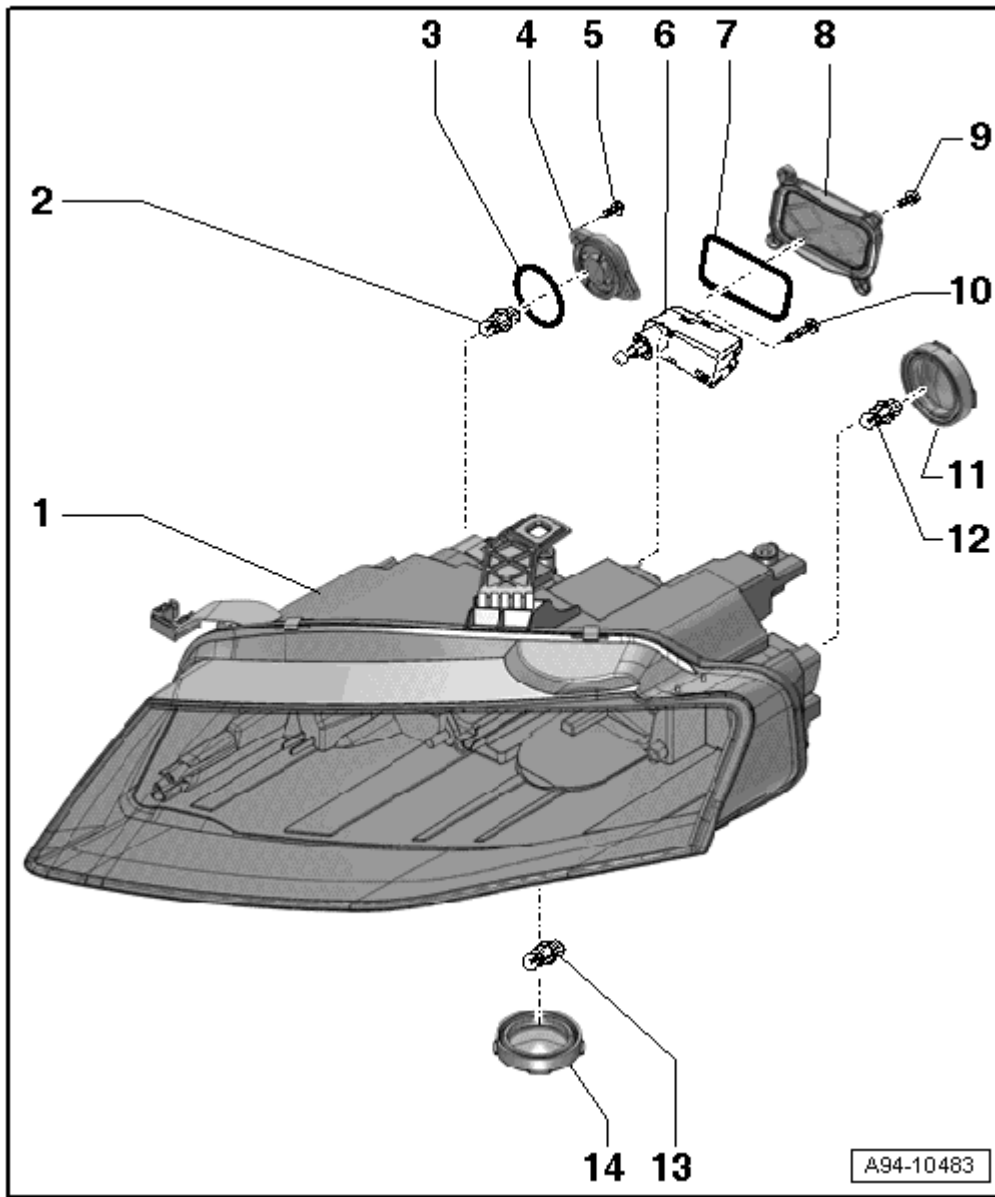
## 27. Screw

- Tightening specification, refer to **Description and Operation** .

## 28. Front Airbag Crash Sensor

- Removing and installing, refer to **Removal and Installation** .

## Part 2 - Repair Kits

**Fig. 7: Headlamp Overview**

Courtesy of AUDI OF AMERICA, LLC

1. Headlamp
  - Removing and installing, refer to **HEADLAMP**.
2. Front Turn Signal Bulb
  - Left front turn signal bulb -M5-
  - Right front turn signal bulb -M7-
  - 12 V, 24 W - yellow
  - Replacing, refer to **FRONT TURN SIGNAL LAMP BULBS -M5- / -M7-**.
3. Seal
  - Not available separately as a replacement part.

4. Turn Signal Housing Cap
  - The headlamp must be cut open to replace the bulb.
  - The cap can be ordered to seal the headlamp opening.
  - Removing and installing **FRONT TURN SIGNAL LAMP BULBS -M5- / -M7-**
5. Screw
  - 2 Nm
  - From the turn signal cover repair kit.
6. Headlamp Range Control Positioning Motor
  - Left headlamp beam adjustment motor -V48-. Removing and installing, refer to **LEFT HEADLAMP BEAM ADJUSTMENT MOTOR -V48-**.
  - Right headlamp beam adjustment motor -V49- ; not available separately as a replacement part.
7. Seal
  - Not available separately as a replacement part.
8. Headlamp Range Control Positioning Motor Housing Cap
  - only for the left headlamp
  - The headlamp must be cut open to replace the positioning motor.
  - The cap can be ordered to seal the headlamp opening.
  - Removing and installing, refer to **LEFT HEADLAMP BEAM ADJUSTMENT MOTOR -V48-**.
9. Screw
  - 2 Nm
  - From the headlamp range control positioning motor cover repair kit.
10. Screw
  - 1.4 Nm
11. Parking Lamp/Daytime Running Lamp Housing Cover
  - The headlamp must be cut open to replace the bulb.
  - A housing cover can be ordered to seal the headlamp opening.
  - Removing and installing, refer to **FRONT DAYTIME RUNNING LAMP BULBS -L174- / -L175-**.
12. Daytime Running Lamp Bulb
  - Left daytime running lamp bulb -L174-.
  - Right daytime running lamp bulb -L175-.
  - 12V, 13 W
  - Replacing, refer to **FRONT DAYTIME RUNNING LAMP BULBS -L174- / -L175-**.
13. Parking Lamp/Daytime Running Lamp Bulb
  - Left side marker lamp bulb -M1-.
  - Right side marker lamp bulb -M3-.
  - With daytime running lamp function.
  - Parking lamp 70% dimmed.

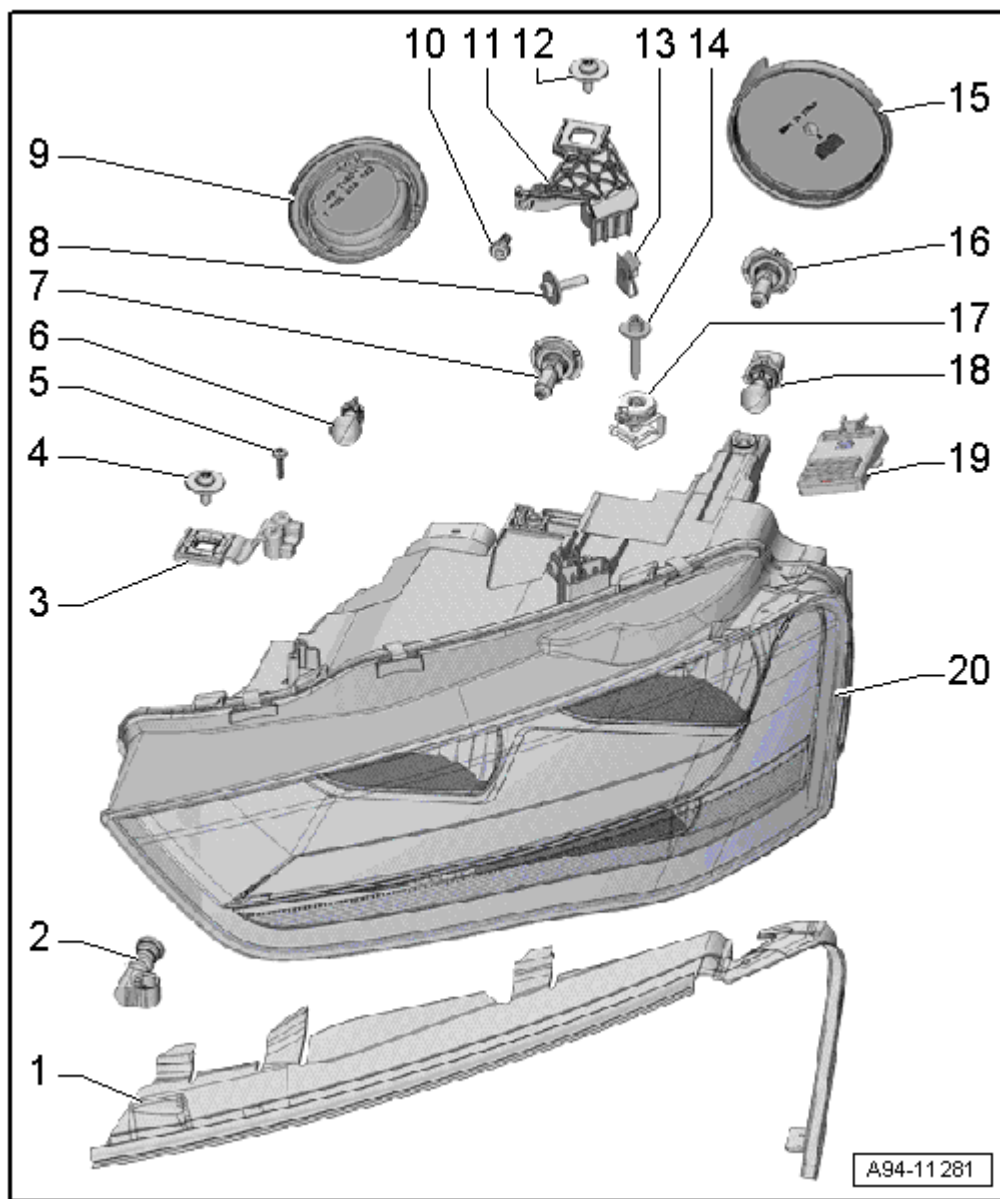
- 12V, 13 W
  - Replacing, refer to **LEFT AND RIGHT SIDE MARKER LAMP BULBS -M1- / -M3-**.
14. Parking Lamp/Daytime Running Lamp Housing Cover
- The headlamp must be cut open to replace the bulb.
  - The housing cover can be ordered to seal the headlamp opening.
  - Removing and installing, refer to **FRONT DAYTIME RUNNING LAMP BULBS -L174- / -L175-**.

**HALOGEN HEADLAMPS OVERVIEW, FROM MY 2013**

Note the information about contact corrosion, refer to **CONTACT CORROSION**.

**NOTE:**        **Headlamps must be adjusted after performing measures that could influence headlamp adjustment HEADLAMPS AND FOG LAMPS, CHECKING AND ADJUSTING.**

Part 1 - Headlamp Housing, Bulbs, Control Modules



**Fig. 8: Halogen Headlamps Overview**

Courtesy of AUDI OF AMERICA, LLC

1. Sealing Frame
  - Removing and installing, refer to **SEALING FRAME**.
2. Ventilation
  - For the headlamp housing
3. Headlamp Housing Inner Bracket
  - Removing and installing, refer to **INNER HEADLAMP HOUSING BRACKET**.
4. Bolt
  - 4.5 Nm
5. Bolt

- 6 Nm
  - Quantity: 2
6. Front Turn Signal Bulb
    - Left Front Turn Signal Bulb -M5-
    - Right Front Turn Signal Bulb -M7-
    - Removing and installing, refer to **FRONT TURN SIGNAL LAMP BULBS -M5- / -M7-**.
  7. High Beam Headlamp Bulb
    - Left High Beam Headlamp Bulb -M30-
    - Right High Beam Headlamp Bulb -M32-
    - 12 V, 55 W (H7)
    - Bulb, replacing refer to **HIGH BEAM HEADLAMP BULBS -M30- / -M32-**.
  8. Bolt
    - 4.5 Nm
  9. Housing Cover
  10. Impact Screw
    - For aligning headlamp housing to contour of chassis.
    - Must touch lock carrier
  11. Headlamp Housing Upper Bracket
    - Removing and installing, refer to **UPPER HEADLAMP HOUSING BRACKET**.
  12. Bolt
    - 4.5 Nm
  13. Spring Nut
  14. Bolt
    - 4.5 Nm
  15. Housing Cover
  16. Low Beam Headlamp Bulb
    - Left Low Beam Headlamp Bulb -M29-
    - Right Low Beam Headlamp Bulb -M31-
    - 12 V, 55 W (H7)
    - Bulb, replacing refer to **LOW BEAM HEADLAMP BULB -M29- / -M31-**.
  17. Adjuster
    - For adjusting the headlamp housing to the bumper contour.
  18. Parking Lamp/Daytime Running Lamp Bulb
    - Left Side Marker Lamp Bulb -M1-
    - Right Parking Lamp Bulb -M3-
    - Left Daytime Running Lamp Bulb -L174-
    - Right Daytime Running Lamp Bulb -L175-
    - 12 V, 26 W (PSX26W)

- Bulb, replacing refer to **PARKING LAMP BULBS -M1- / -M3- OR DAYTIME RUNNING LAMP BULBS -L174- / -L175-**.

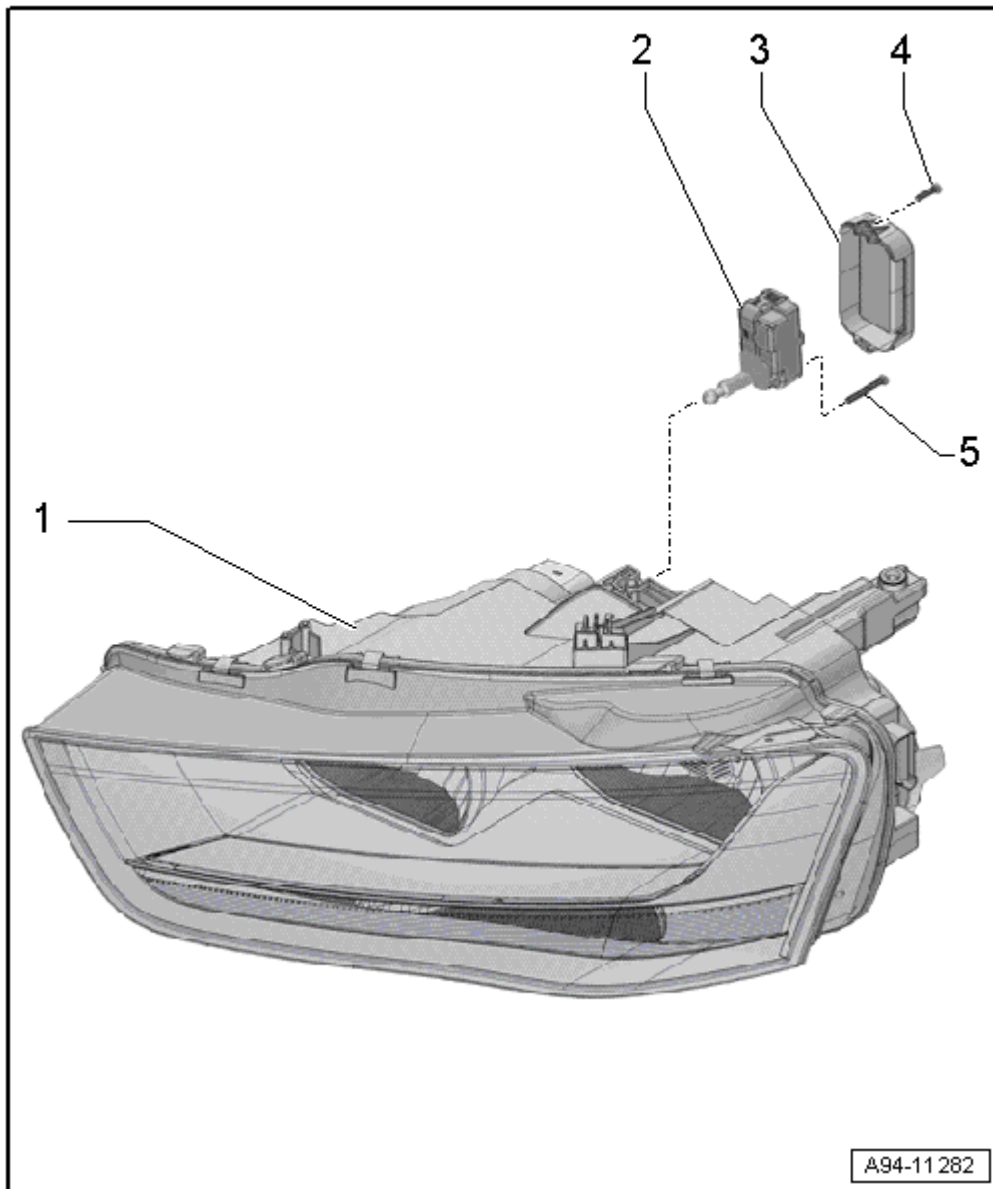
19. Side Marker Lamp Power Output Stage

- Left Side Marker Lamp Power Output Stage -J986-
- Right Side Marker Lamp Power Output Stage -J987-
- Removing and installing, refer to **LEFT AND RIGHT SIDE MARKER LAMP POWER OUTPUT STAGE -J986- / -J987-**.

20. Headlamp Housing

- Removing and installing, refer to **HEADLAMP**.

Part 2 - Repair Kit

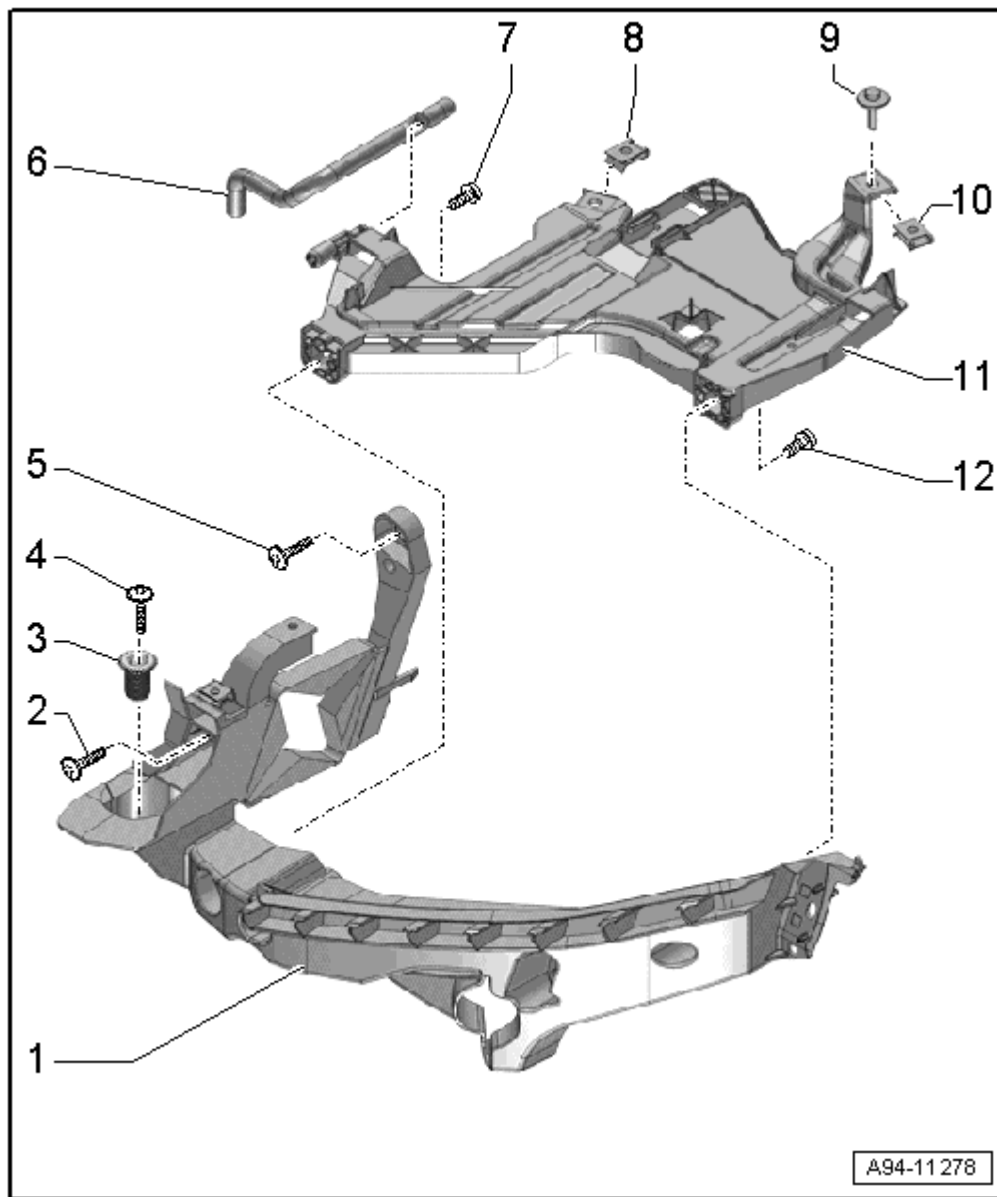


**Fig. 9: Identifying Headlamp Range Control Positioning Motor**

Courtesy of AUDI OF AMERICA, LLC

1. Headlamp Housing
  - Removing and installing, refer to **HEADLAMP**.
2. Headlamp Range Control Positioning Motor
  - Left Headlamp Beam Adjustment Motor -V48-
  - Right Headlamp Beam Adjustment Motor -V49-
  - Removing and installing, refer to **LEFT AND RIGHT HEADLAMP BEAM ADJUSTMENT MOTOR -V48- / -V49-**.
3. Headlamp Range Control Positioning Motor Housing Cover
  - The headlamp housing must be cut open to replace the positioning motor.
  - A housing cover can be ordered to seal the assembly opening.
  - Removing and installing, refer to **LEFT AND RIGHT HEADLAMP BEAM ADJUSTMENT MOTOR -V48- / -V49-**.
4. Bolt
  - 2 Nm
  - From the repair kit for the headlamp range control positioning motor cover.
  - Quantity: 2
5. Bolt
  - 1.4 Nm
  - Quantity: 2

**HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012**



**Fig. 10: Headlamp Housing Mount Overview, Through My 2012**  
Courtesy of AUDI OF AMERICA, LLC

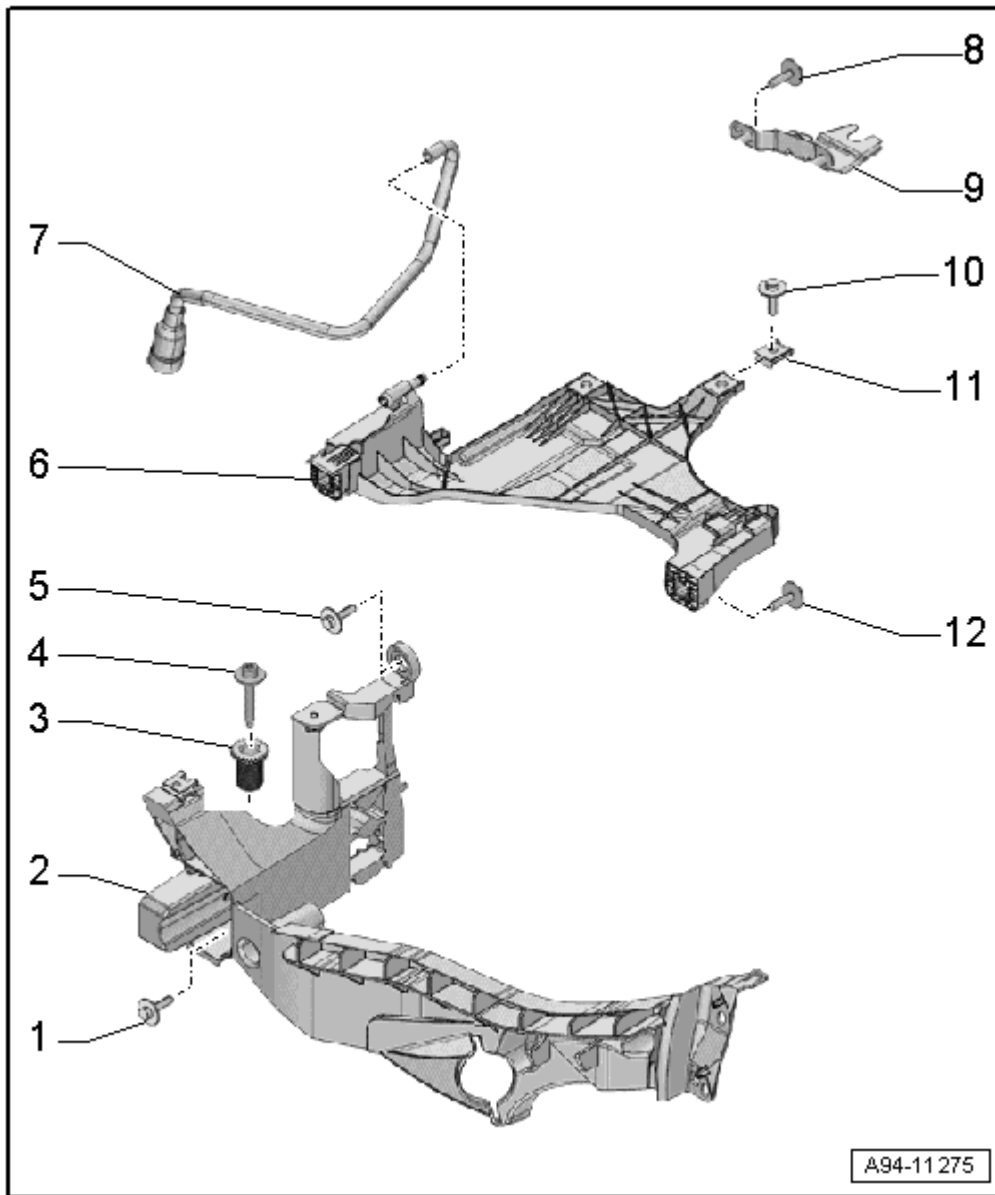
1. Bracket
  - For the headlamp housing mount
2. Bolt
  - 8 Nm
3. Adjusting Nut
  - For adjustment of the front bumper cover contour
4. Bolt
  - 8 Nm
5. Bolt

## 2012 Audi S4

### ACCESSORIES & EQUIPMENT Exterior Lights, Switches (Sedan)

- 8 Nm
- 6. Ventilation Hose
  - For headlamp housing
- 7. Bolt
  - 4.5 Nm
- 8. Spring Nut
- 9. Bolt
  - 4.5 Nm
- 10. Spring Nut
- 11. Mount
  - For headlamp housing
  - Removing and installing, refer to **HEADLAMP HOUSING MOUNT**.
- 12. Bolt
  - 4.5 Nm

**HEADLAMP HOUSING MOUNT OVERVIEW, FROM MY 2013**



**Fig. 11: Headlamp Housing Mount Overview, From My 2013**

Courtesy of AUDI OF AMERICA, LLC

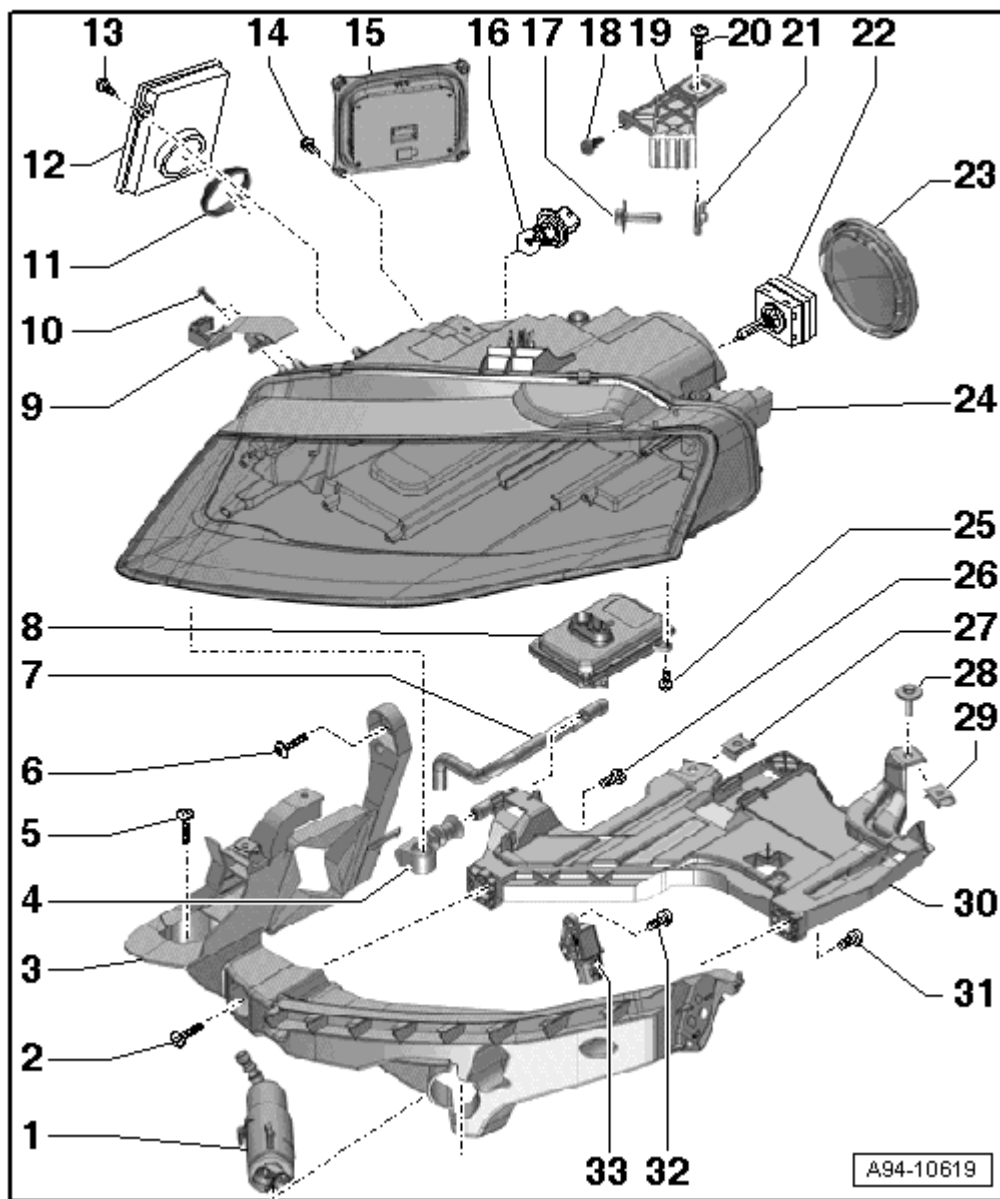
1. Bolt
  - 8 Nm
2. Bracket
  - For the headlamp housing mount
  - Removing and installing, refer to **HEADLAMP HOUSING MOUNT BRACKET**.
3. Adjusting Nut
  - For adjustment of the front bumper cover contour
4. Bolt
  - 8 Nm

5. Bolt
  - 8 Nm
6. Mount
  - For headlamp housing
  - Removing and installing, refer to **HEADLAMP HOUSING MOUNT**.
7. Ventilation Hose
  - For headlamp housing
8. Bolt
  - Quantity: 2
  - 4.5 Nm
9. Upper mount
  - For headlamp housing
  - Removing and installing, refer to **UPPER HEADLAMP HOUSING MOUNT, FROM MY 2013**.
10. Bolt
  - Quantity: 2
  - 4.5 Nm
11. Spring Nut
  - Quantity: 2
12. Bolt
  - 4.5 Nm
  - Quantity: 2

**HID HEADLAMP WITH CORNERING LAMP OVERVIEW, THROUGH 2012**

Observe the notes on contact corrosion. Refer to **CONTACT CORROSION**.

**NOTE:**        **Headlamps must be adjusted after performing measures that could influence headlamp adjustment. Refer to HEADLAMPS AND FOG LAMPS, CHECKING AND ADJUSTING.**



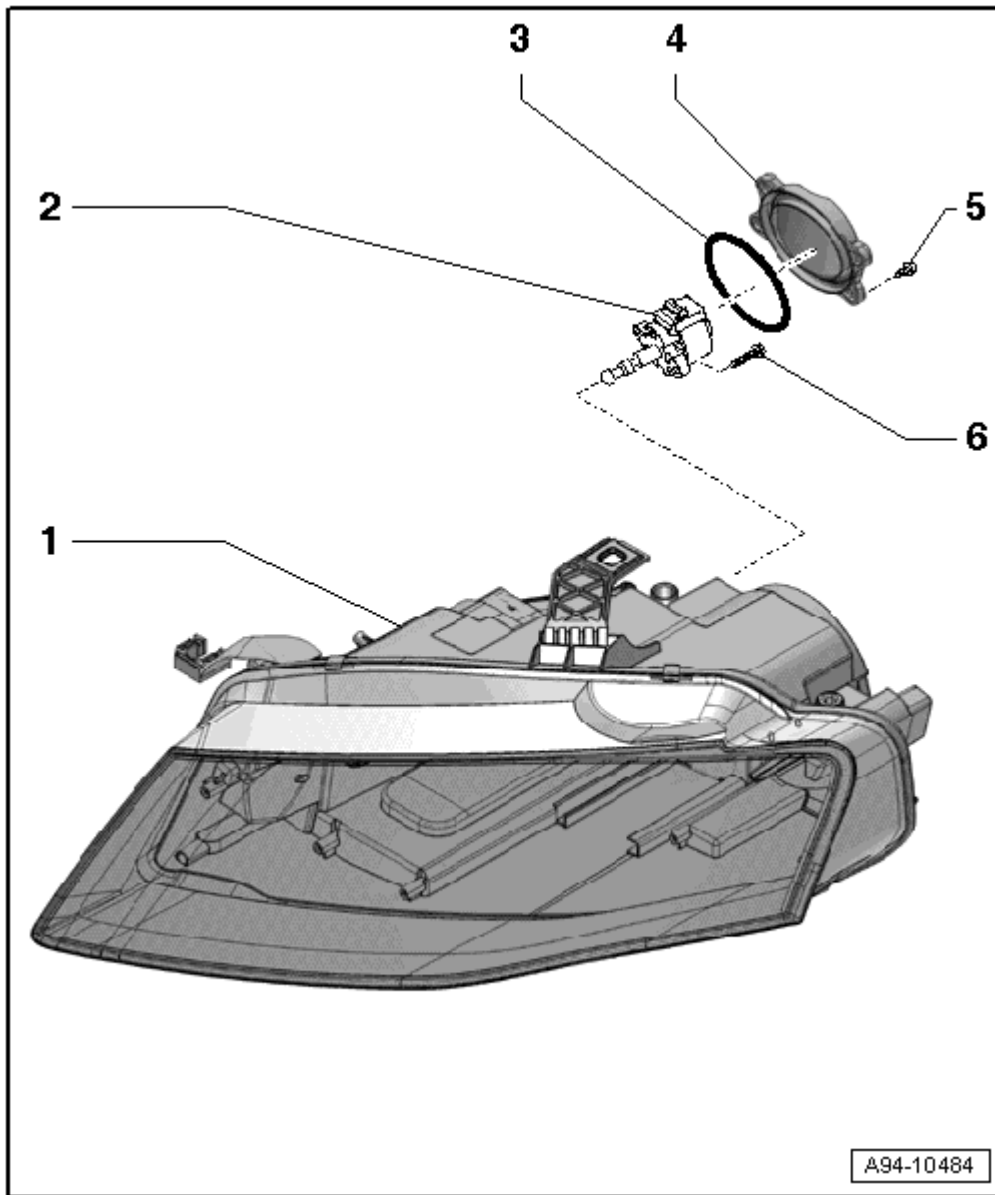
**Fig. 12: Hid Headlamp With Cornering Lamp Overview**

Courtesy of AUDI OF AMERICA, LLC

1. Headlamp Washer System Spray Nozzle
2. Screw
  - Tightening specification, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
3. Bracket
  - Overview, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
4. Adapter Vent Tube
  - For the headlamp.
5. Screw

- Tightening specification, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
6. Screw
    - Tightening specification, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
  7. Ventilation Hose
    - Overview, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
  8. Power Output Stage
    - Only for vehicles with cornering lamps.
    - Left headlamp power output stage -J667-.
    - Right headlamp power output stage -J668-.
    - Removing and installing, refer to **HEADLAMP POWER OUTPUT STAGES -J667- / -J668-.**
  9. Bracket
  10. Screw
    - 1.8 Nm
  11. Seal
  12. HID Headlamp Control Module
    - Left HID Headlamp control module -J343-.
    - Right HID Headlamp control module -J344-.
    - Removing and installing, refer to **HIGH-INTENSITY GAS DISCHARGE LAMP CONTROL MODULES -J343- /J344.**
  13. Screw
    - 1.4 Nm
  14. Screw
    - 1.4 Nm
  15. Daytime Running Lamp and Parking Lamp LED Module
    - Left daytime running lamp and parking lamp LED module -L176-
    - Right daytime running lamp and parking lamp LED module -L177-
    - Removing and installing, refer to **LED PARKING LAMP/DAYTIME RUNNING LAMP MODULES -L176- / -L177-.**
  16. Front Turn Signal Lamp Bulb
    - Left front turn signal lamp bulb -M5-
    - Right front turn signal lamp bulb -M7-
    - 12 V, 21 W (H21W)
    - Replacing, refer to **FRONT TURN SIGNAL LAMP BULBS -M5- / -M7-.**
  17. Screw
    - 4.5 Nm
  18. Screw

19. Bracket
20. Screw
  - 4.5 Nm
21. Speed Nut
22. Gas Discharge Bulb
  - With integrated ignition coil.
  - Left HID headlamp bulb -L13-.
  - Right HID headlamp bulb -L14-.
  - 42 V, 35 W (D3S)
  - Replacing, refer to **HID HEADLAMP BULBS -L13- / -L14-**.
23. Cap
  - For the gas discharge bulb.
24. Headlamp
  - The daytime running lamps and parking lamps are Light Emitting Diode (LED) lamps and are integrated in the headlamp. The LEDs cannot be replaced. The entire headlamp must be replaced.
  - The front side marker lamp bulb is an LED and is integrated in the headlamp. The LED cannot be replaced. The entire headlamp must be replaced.
  - Removing and installing, refer to **HEADLAMP**.
25. Screw
  - 1.4 Nm
26. Screw
  - Tightening specification, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
27. Speed Nut
28. Screw
  - Tightening specification, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
29. Speed Nut
30. Mount
  - Overview, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
31. Screw
  - Tightening specification, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012.**
32. Screw
  - Tightening specification, refer to **Description and Operation** .
33. Front Airbag Crash Sensor
  - Removing and installing, refer to **Removal and Installation** .



**Fig. 13: Removing And Installing**  
Courtesy of AUDI OF AMERICA, LLC

1. Headlamp
  - Removing and installing, refer to **HEADLAMP**.
2. Headlamp Range Control Positioning Motor
  - Left headlamp beam adjustment motor -V48-.
  - Right headlamp beam adjustment motor -V49-.
  - Removing and installing, refer to **HEADLAMP BEAM ADJUSTMENT MOTORS -V48- / -V49-**.
3. Seal
  - Not available separately as a replacement part.

**4. Headlamp Range Control Positioning Motor Housing Cap**

- Original equipment has a unit with the headlamp. Replace separately; for repair kit.
- Removing and installing, refer to **HEADLAMP BEAM ADJUSTMENT MOTORS -V48- / -V49-**.

**5. Screw**

- 2 Nm
- In the repair kit for the headlamp range control positioning motor cap.

**6. Screw**

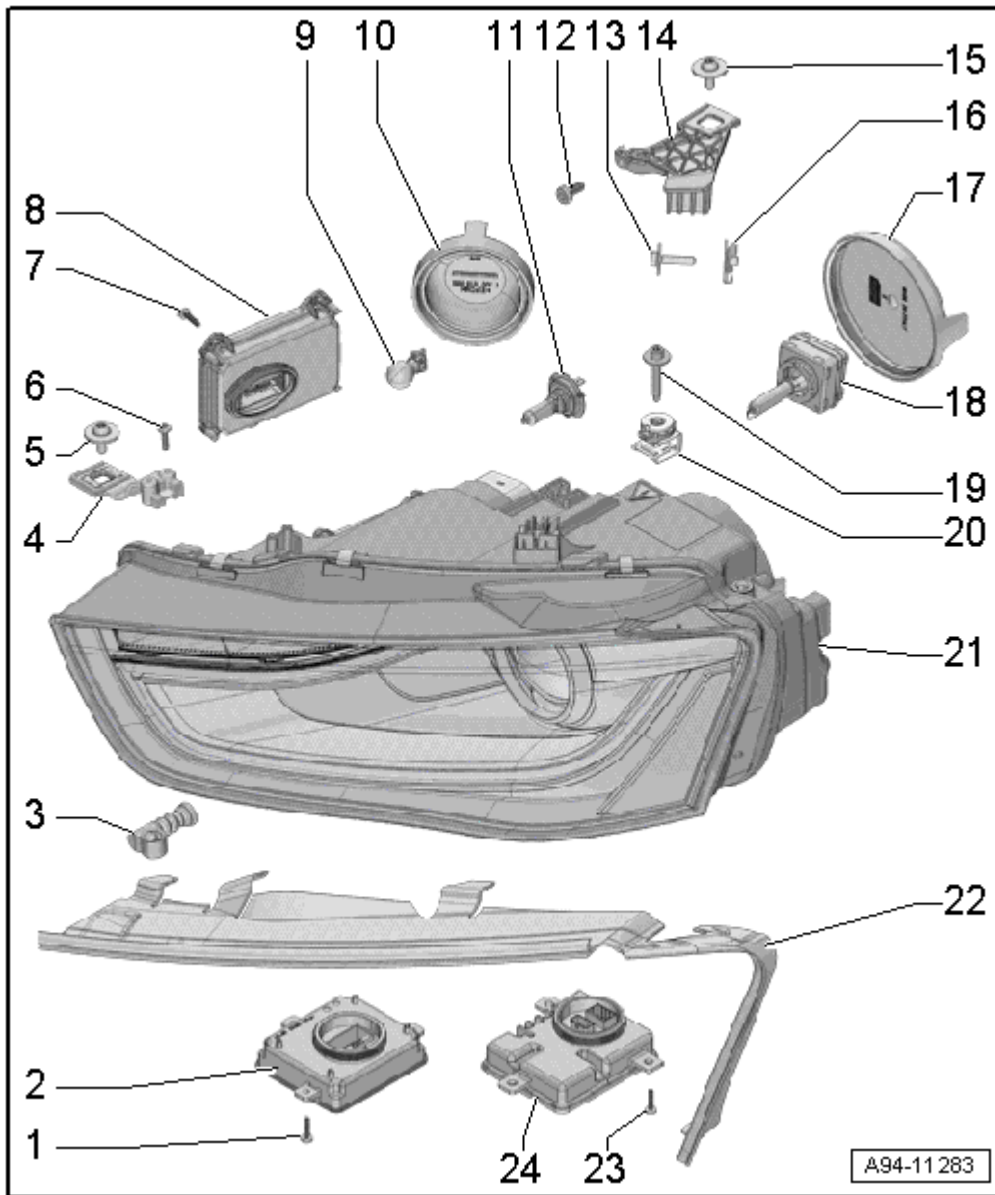
- 1.4 Nm

**HID HEADLAMPS OVERVIEW, FROM MY 2013**

Refer to the information regarding contact corrosion. Refer to **CONTACT CORROSION**.

**NOTE:**        **Headlamps must be adjusted after performing measures that could influence headlamp adjustment. Refer to HEADLAMPS AND FOG LAMPS, CHECKING AND ADJUSTING.**

Part 1 - Headlamp Housing, Bulbs, Control Modules



**Fig. 14: Hid Headlamps Overview**

Courtesy of AUDI OF AMERICA, LLC

1. Bolt
  - 1.5 Nm
  - Quantity: 3
2. HID Headlamp Control Module
  - Left High-intensity Gas Discharge Lamp Control Module -J343-
  - Right High-intensity Gas Discharge Lamp Control Module -J344-
  - Removing and installing, refer to **HIGH-INTENSITY GAS DISCHARGE LAMP CONTROL MODULE -J343- /J344.**
3. Ventilation

- For the headlamp housing
- 4. Headlamp Housing Inner Bracket
  - Removing and installing, refer to **INNER HEADLAMP HOUSING BRACKET.**
- 5. Bolt
  - 4.5 Nm
- 6. Bolt
  - 6 Nm
  - Quantity: 2
- 7. Bolt
  - 1.5 Nm
  - Quantity: 3
- 8. Daytime Running Lamp and Parking Lamp Control Module
  - Daytime running lamp and left parking lamp control module -J860-
  - Daytime running lamp and right parking lamp control module -J861-
  - Removing and installing, refer to **DAYTIME RUNNING LAMP AND PARKING LAMP CONTROL MODULE -J860- / -J861-.**
- 9. Front Turn Signal Bulb
  - Left Front Turn Signal Bulb -M5-
  - Right Front Turn Signal Bulb -M7-
  - 12 V, 24 W (F024MD)
  - Bulb replacing, refer to **FRONT TURN SIGNAL LAMP BULBS -M5- / -M7-.**
- 10. Housing Cover
- 11. Stationary Cornering Lamp Bulb
  - Left stationary cornering lamp -M51-
  - Right stationary cornering lamp -M52-
  - 12 V, 55 W (H7)
  - Bulb replacing, refer to **STATIC CORNERING LAMP BULB -M51- / -M52-.**
- 12. Impact Screw
  - For aligning headlamp housing to contour of chassis.
  - Must touch lock carrier
- 13. Bolt
  - 4.5 Nm
- 14. Headlamp Housing Upper Bracket
  - Removing and installing, refer to **UPPER HEADLAMP HOUSING BRACKET.**
- 15. Bolt
  - 4.5 Nm
- 16. Spring Nut
- 17. Housing Cover

## 18. Gas-Discharge Lamp

- With integrated ignition coil
- Left high intensity gas discharge (HID) lamp -L13-
- Right high intensity gas discharge (HID) lamp -L14-
- 42 V, 35 W (D3S)
- Bulb replacing, refer to **HID HEADLAMP BULBS -L13- / -L14-**

## 19. Bolt

- 4.5 Nm

## 20. Adjuster

- For adjusting the headlamp housing to the bumper contour.

## 21. Headlamp Housing

- Left with left daytime running lamp and parking lamp LED module -L176-
- Right with right LED daytime running lamp and parking lamp LED module -L177-
- Front side marker lamp bulb -M33- / -M34- depending on the country. Cannot be replaced separately.
- Removing and installing, refer to **HEADLAMP**.

## 22. Sealing Frame

- Removing and installing, refer to **SEALING FRAME**.

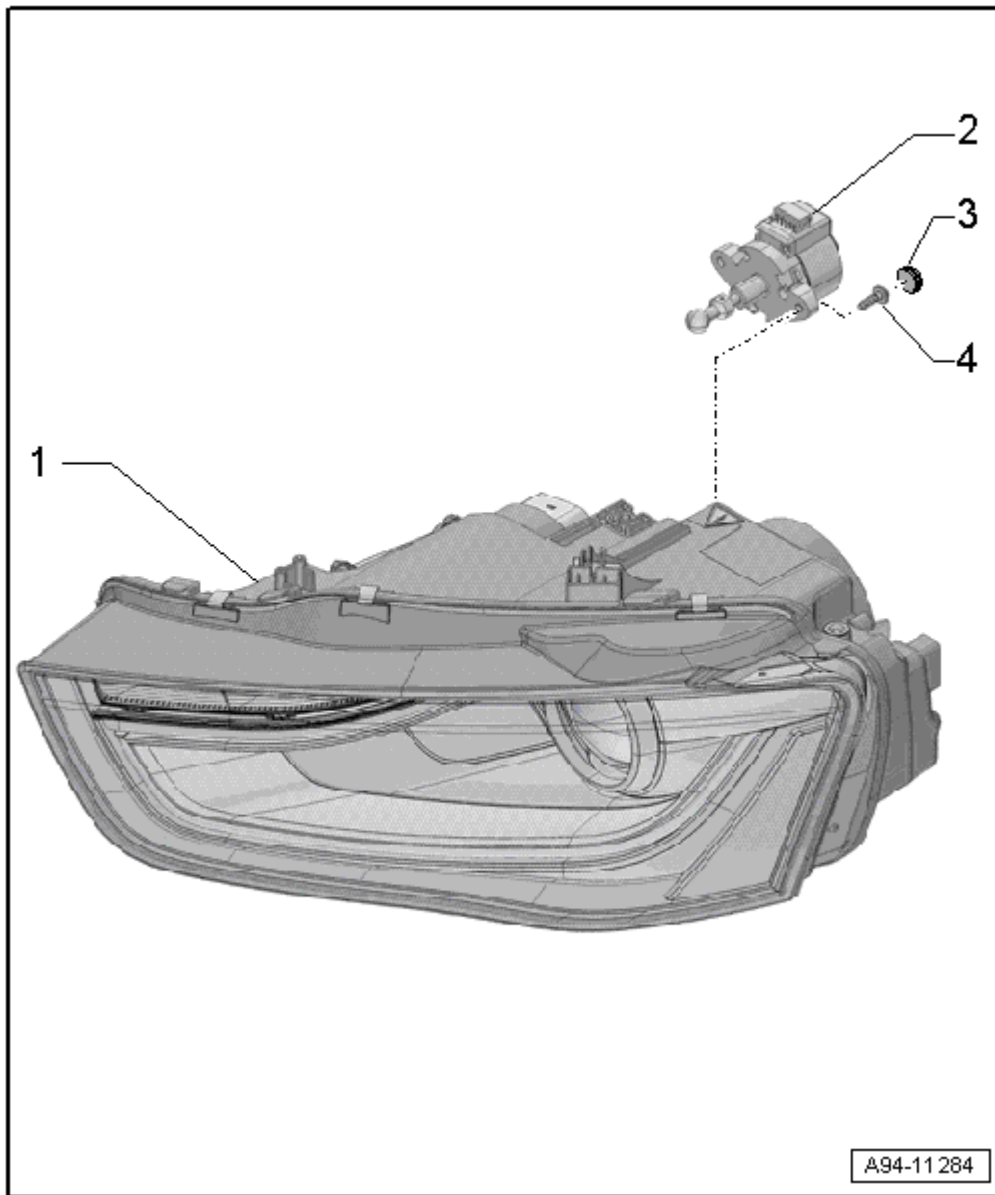
## 23. Bolt

- 1.5 Nm
- Quantity: 3

## 24. Headlamp Power Output Stages

- Only for vehicles with cornering lamps.
- Left Headlamp Power Output Stage -J667-
- Right Headlamp Power Output Stage -J668-
- Removing and installing, refer to **HEADLAMP POWER OUTPUT STAGE -J667- / -J668-**.

## Part 2 - Repair Kit

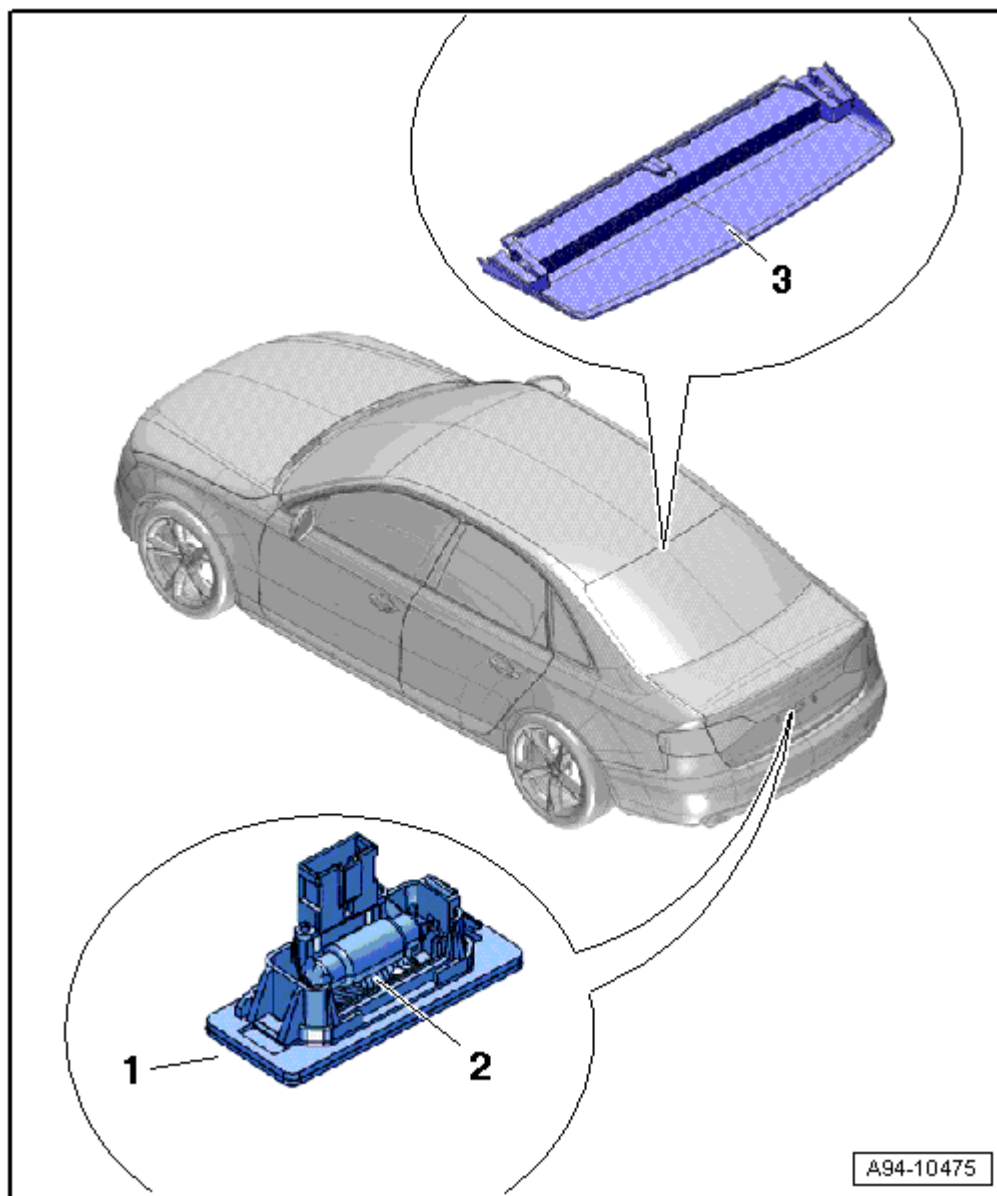


**Fig. 15: Headlamp Housing Overview**  
Courtesy of AUDI OF AMERICA, LLC

1. Headlamp Housing
  - Removing and installing, refer to **HEADLAMP**.
2. Headlamp Range Control Positioning Motor
  - Left Headlamp Beam Adjustment Motor -V48-
  - Right Headlamp Beam Adjustment Motor -V49-
  - Removing and installing, refer to **HEADLAMP BEAM ADJUSTMENT MOTOR -V48- / -V49-**.
3. Grommet
  - The headlamp housing must be opened to replace the positioning motor.
  - A grommet can be ordered to seal the assembly opening.

- Removing and installing, refer to **HEADLAMP BEAM ADJUSTMENT MOTOR -V48- / -V49-**.
4. Bolt
- 1.4 Nm
  - Quantity: 2

#### HIGH MOUNT BRAKE AND LICENSE PLATE LAMPS OVERVIEW

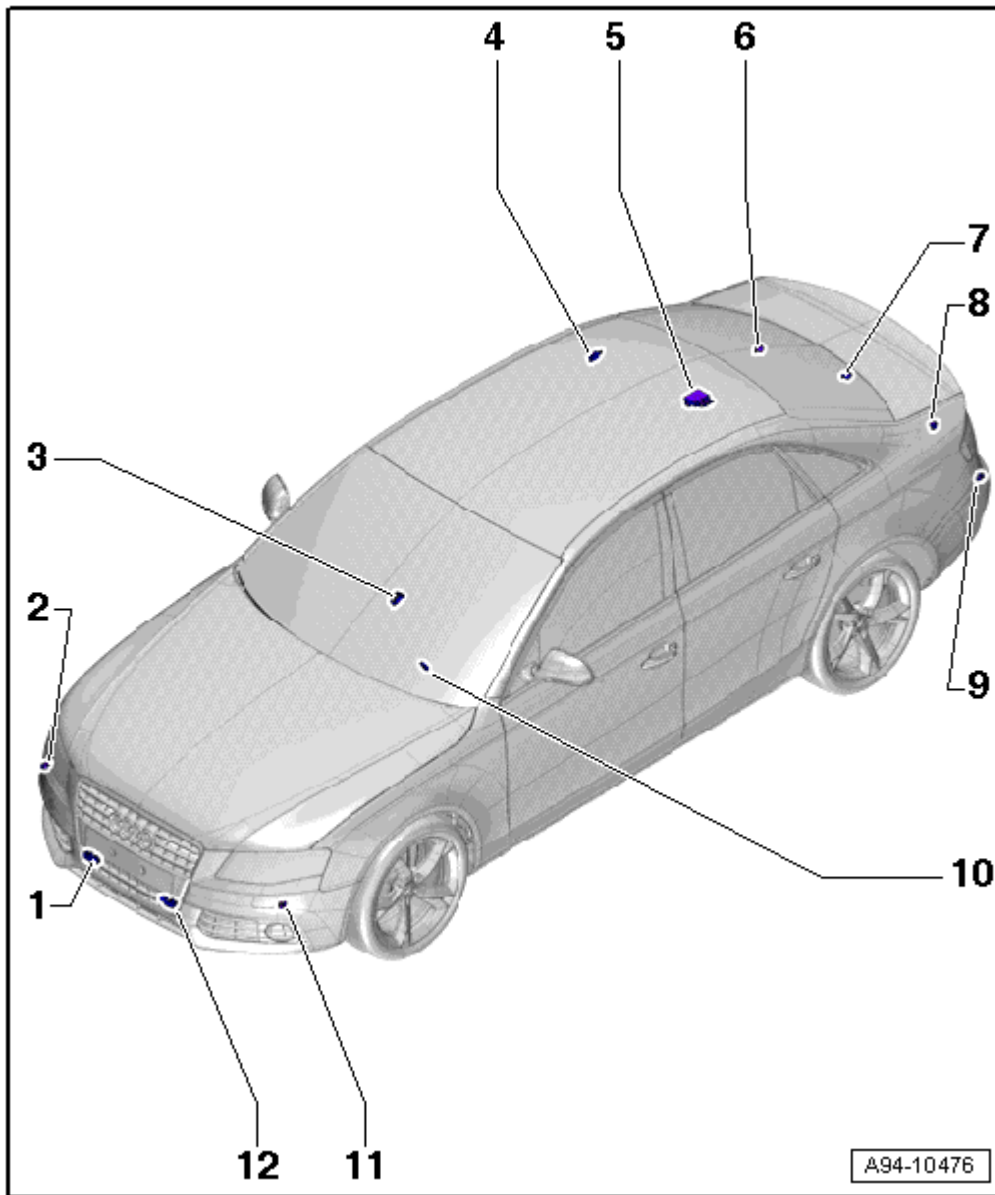


**Fig. 16: High Mount Brake And License Plate Lamps Overview**  
Courtesy of AUDI OF AMERICA, LLC

1. License Plate Lamp
- There are different versions.

- Removing and installing, refer to **LICENSE PLATE LAMP BULB**.
2. License Plate Lamp Bulb
    - There are different versions.
    - Left license plate lamp bulb -X4-.
    - Right license plate lamp bulb -X5-.
    - 12V, 5 W
    - Replacing, refer to **LICENSE PLATE LAMP BULB**.
  3. High Mounted Brake Lamp
    - High-mount brake lamp bulb -M25-.
    - Removing and installing, refer to **HIGH MOUNTED BRAKE LAMP**.

**PARKING AID OVERVIEW**



**Fig. 17: Parking Aid Overview**

Courtesy of AUDI OF AMERICA, LLC

1. Right Front Center Parking Aid Sensor -G253-

- In the radiator grille.
- Removing and installing:
  - through MY 2012, refer to **FRONT PARKING AID SENSORS, SEDAN AND AVANT, THROUGH MY 2012.**
  - from MY 2013, refer to **FRONT PARKING AID SENSOR, SEDAN AND AVANT, FROM MY 2013.**
  - allroad, refer to **FRONT PARKING AID SENSORS, ALLROAD**

2. Right Front Parking Aid Sensor -G252-

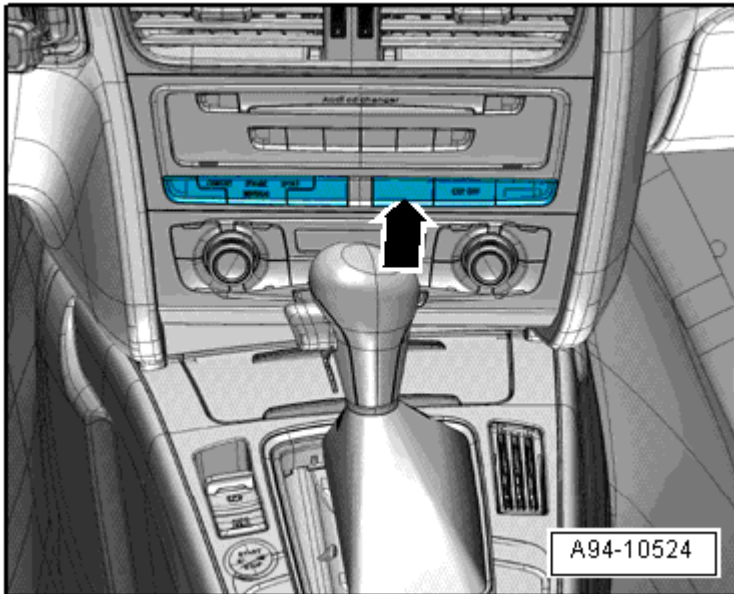
- In the front bumper.
  - Removing and installing:
    - through MY 2012, refer to **FRONT PARKING AID SENSORS, SEDAN AND AVANT, THROUGH MY 2012**
    - from MY 2013, refer to **FRONT PARKING AID SENSOR, SEDAN AND AVANT, FROM MY 2013**
    - allroad, refer to **FRONT PARKING AID SENSORS, ALLROAD**
3. Parking Aid Button -E266-
    - Only with the 8 channel parking aid.
    - Component location, refer to **Parking Aid Control Module Frame Bolt Tightening Specifications**.
  4. Rear Parking Aid Warning Buzzer -H15-
    - On the right rear belt relay point.
    - Removing and installing, refer to **REAR PARKING AID WARNING BUZZER**.
  5. Parking Aid Control Module -J446-
    - Integrated in the Vehicle electrical system control module -J519- depending on the date of manufacture from MY 2013
    - Removing and installing, refer to:
      - **PARKING AID CONTROL MODULE -J446-, VEHICLES WITHOUT TRAILER HITCH**
      - **PARKING AID CONTROL MODULE -J446-, VEHICLES WITH TRAILER HITCH**
  6. Right Rear Parking Aid Sensor -G206-
    - In the rear bumper.
    - Removing and installing, refer to **REAR PARKING AID SENSORS**.
  7. Right Rear Center Parking Aid Sensor -G205-
    - In the rear bumper.
    - Removing and installing, refer to **REAR PARKING AID SENSORS**.
  8. Left Rear Center Parking Aid Sensor -G204-
    - In the rear bumper.
    - Removing and installing, refer to **REAR PARKING AID SENSORS**.
  9. Left Rear Parking Aid Sensor -G203-
    - In the rear bumper.
    - Removing and installing, refer to **REAR PARKING AID SENSORS**.
  10. Front Parking Aid Warning Buzzer -H22-
    - Only with the 8 channel parking aid.
    - On the instrument panel central tube behind the instrument panel cover on the driver side
    - Removing and installing, refer to **FRONT PARKING AID WARNING BUZZER -H22-, 8 CHANNEL PARKING AID**.
  11. Left Front Parking Aid Sensor -G255-

- Inside the front bumper
- Removing and installing:
  - through MY 2012 **FRONT PARKING AID SENSORS, SEDAN AND AVANT, THROUGH MY 2012.**
  - from MY 2013 **FRONT PARKING AID SENSOR, SEDAN AND AVANT, FROM MY 2013.**
  - allroad **FRONT PARKING AID SENSORS, ALLROAD.**

12. Left Front Center Parking Aid Sensor -G254-

- Inside the front bumper
- Removing and installing:
  - through MY 2012 **FRONT PARKING AID SENSORS, SEDAN AND AVANT, THROUGH MY 2012.**
  - from MY 2013 **FRONT PARKING AID SENSOR, SEDAN AND AVANT, FROM MY 2013.**
  - allroad **FRONT PARKING AID SENSORS, ALLROAD.**

Component Location: Parking Aid Button



**Fig. 18: Parking Aid Button**

Courtesy of AUDI OF AMERICA, LLC

In the switch bank in the center console -arrow-

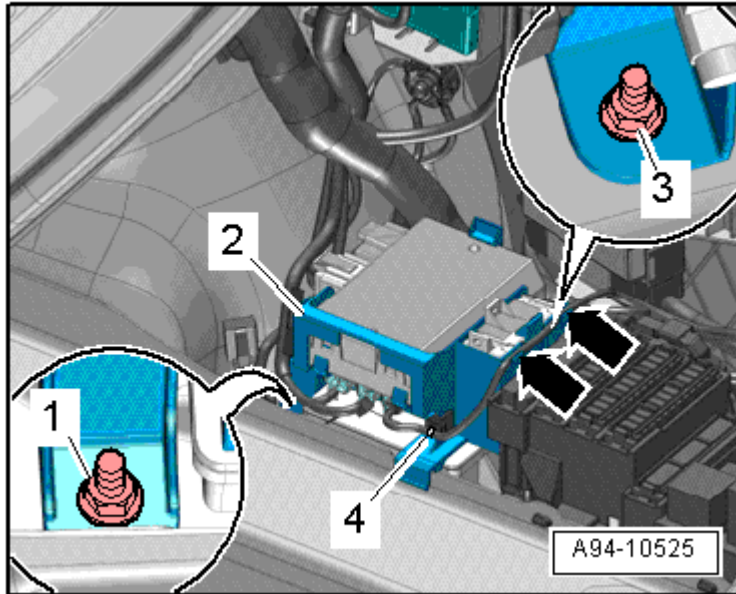
Removing and installing, refer to one of the following:

With Multi-Media Interface (MMI) basic, refer to **BUTTON UNIT, MMI BASIC** .

With MMI comfort, refer to **BUTTON UNIT, WITH MMI COMFORT EQUIPMENT** .

**NOTE:** The illustration shows the MMI comfort.

#### Parking Aid Control Module Frame Bolt Tightening Specifications

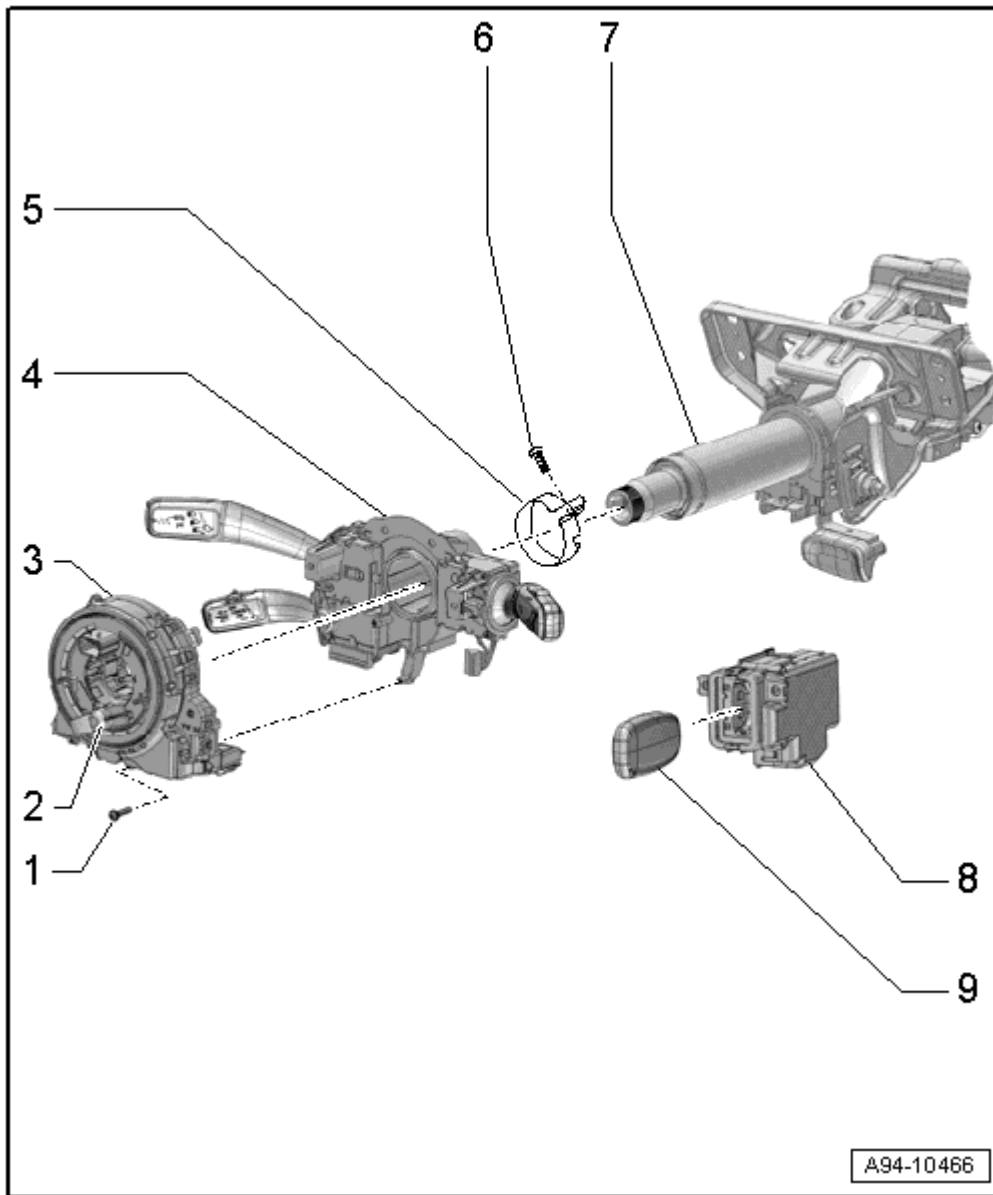


**Fig. 19: Opening Right Luggage Compartment Side Trim Cover**  
Courtesy of AUDI OF AMERICA, LLC

1. Nut - 3 Nm
2. Parking aid control module frame
3. Nut - 3 Nm
4. Cable ties

#### STEERING COLUMN SWITCH MODULE AND ELECTRONIC IGNITION LOCK OVERVIEW

- The steering column switch module consists of the coil connector with slip ring, steering angle sensor - G85-, steering column switch (turn signal indicator switch, wiper switch, cruise control switch) and steering column electronic systems control module.
- Fault finding is done in "Guided Fault Finding". Refer to the vehicle diagnosis, testing and information system VAS 5051.



**Fig. 20: Identifying Steering Column Switch Overview**

Courtesy of AUDI OF AMERICA, LLC

1. Screw
  - 0.5 Nm
2. Transport Protection
3. Steering Column Electronic Systems Control Module -J527-
  - With airbag spiral spring/return spring with slip ring -F138-, steering angle sensor.
  - Removing and installing, refer to **STEERING COLUMN ELECTRONIC SYSTEMS CONTROL MODULE -J527-**.

**CAUTION:** Risk of damaging the coil connector.

- **Coil connector with slip ring is not to be turned following removal.**

- Connector assignment of the steering column electronic systems control module. Refer to **STEERING COLUMN ELECTRONIC SYSTEMS CONTROL MODULE CONNECTOR ASSIGNMENT**.

4. Turn Signal, Cruise Control, Windshield Wiper and Washer Intermittent Switch

- With turn signal switch -E2-, windshield wiper/washer switch -E22-.
- On vehicles with cruise control with the cruise control switch -E45-.
- Removing and installing, refer to **TURN SIGNAL, CRUISE CONTROL, WINDSHIELD WIPER AND WASHER INTERMITTENT SWITCH**.

5. Clamping Ring

6. Screw

- 4 Nm

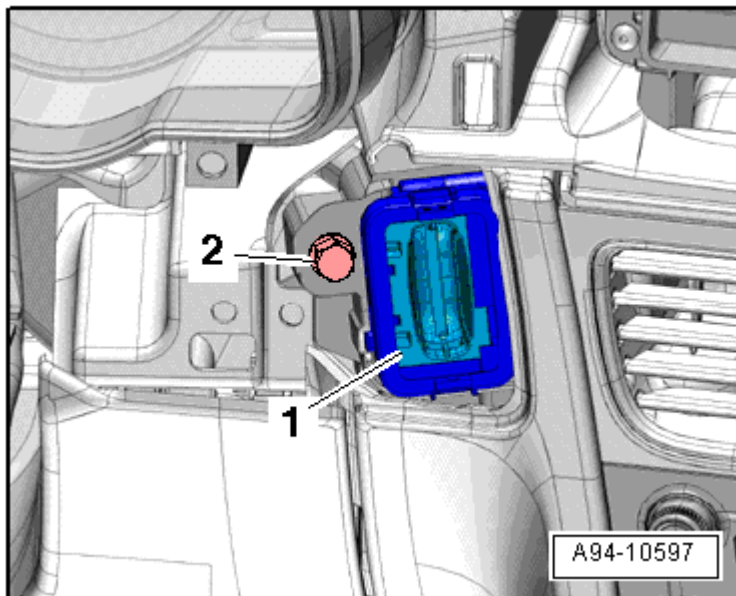
7. Steering Column

8. Access/Start Authorization Switch -E415-

- Removing and installing, refer to **ACCESS/START AUTHORIZATION SWITCH**.

9. Ignition Key

Access/Start Authorization Switch Bolt Tightening Specification



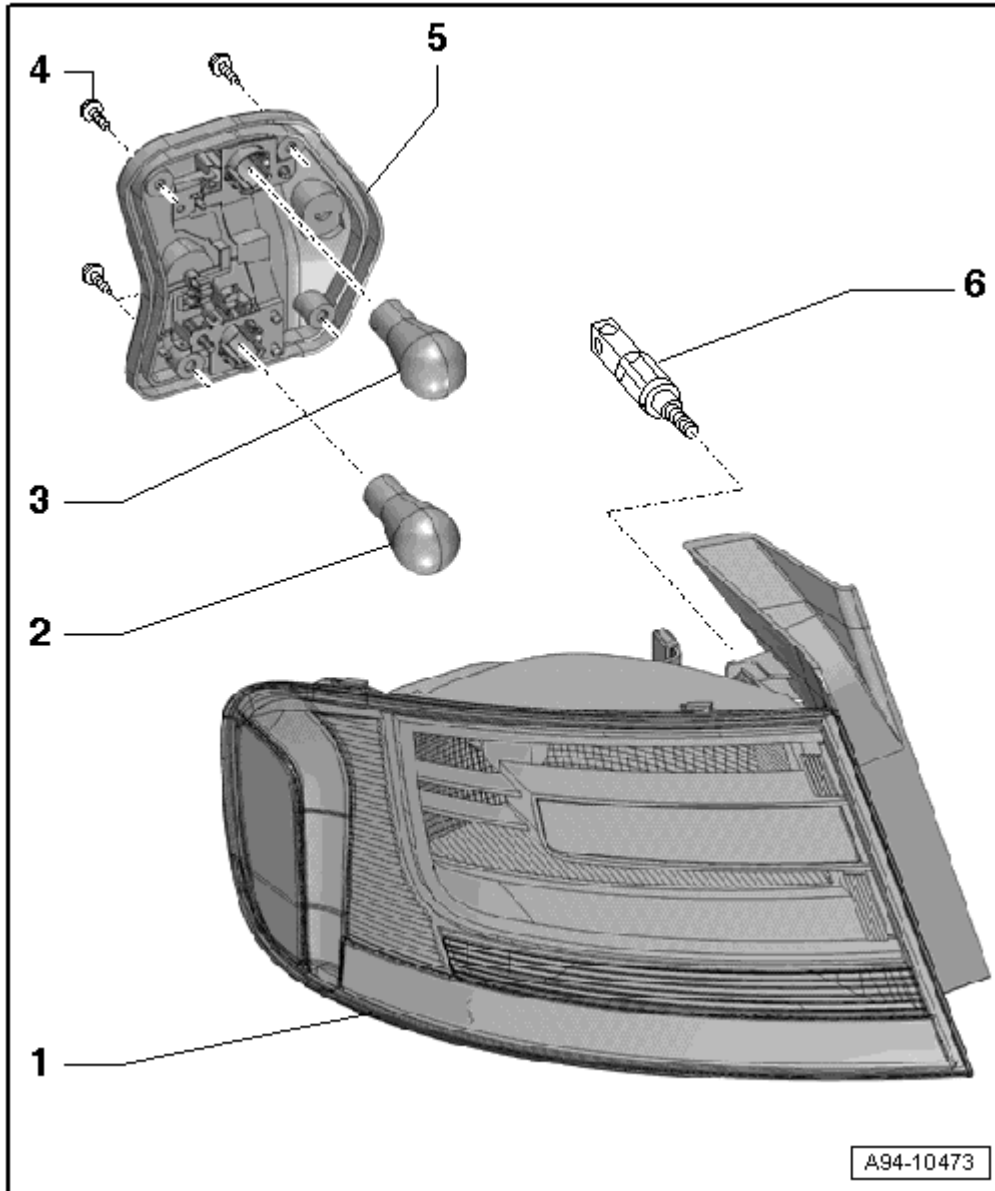
**Fig. 21: Access/Start Authorization Switch Bolt Tightening Specification**  
Courtesy of AUDI OF AMERICA, LLC

-- Tighten the bolt -2- for the access/start authorization switch -item 1- to 3 Nm.

**TAIL LAMP OVERVIEWS**

**OUTER TAIL LAMP**

Observe the notes on contact corrosion. Refer to **CONTACT CORROSION**.



**Fig. 22: Outer Tail Lamp Overview**

Courtesy of AUDI OF AMERICA, LLC

1. Outer Tail Lamp

- The rear side marker lamps are Light Emitting Diodes (LEDs) and are integrated in the outer tail lamp. LEDs cannot be replaced. The entire outer tail lamp must be replaced.
- Removing and installing, refer to **OUTER TAIL LAMP**.

2. Turn Signal Bulb

- Left rear turn signal bulb -M6-.

- Right rear turn signal bulb -M8-.
- 12V, 21 W
- Replacing, refer to **OUTER TAIL LAMP BULB**.

**3. Bulb**

- 12V, 21 W
- Left brake lamp/turn signal/tail lamp bulb -M69-.
- Right brake lamp/turn signal/tail lamp bulb -M70-.
- Replacing, refer to **OUTER TAIL LAMP BULB**.

**4. Screw**

- 1.7 Nm

**5. Bulb Socket**

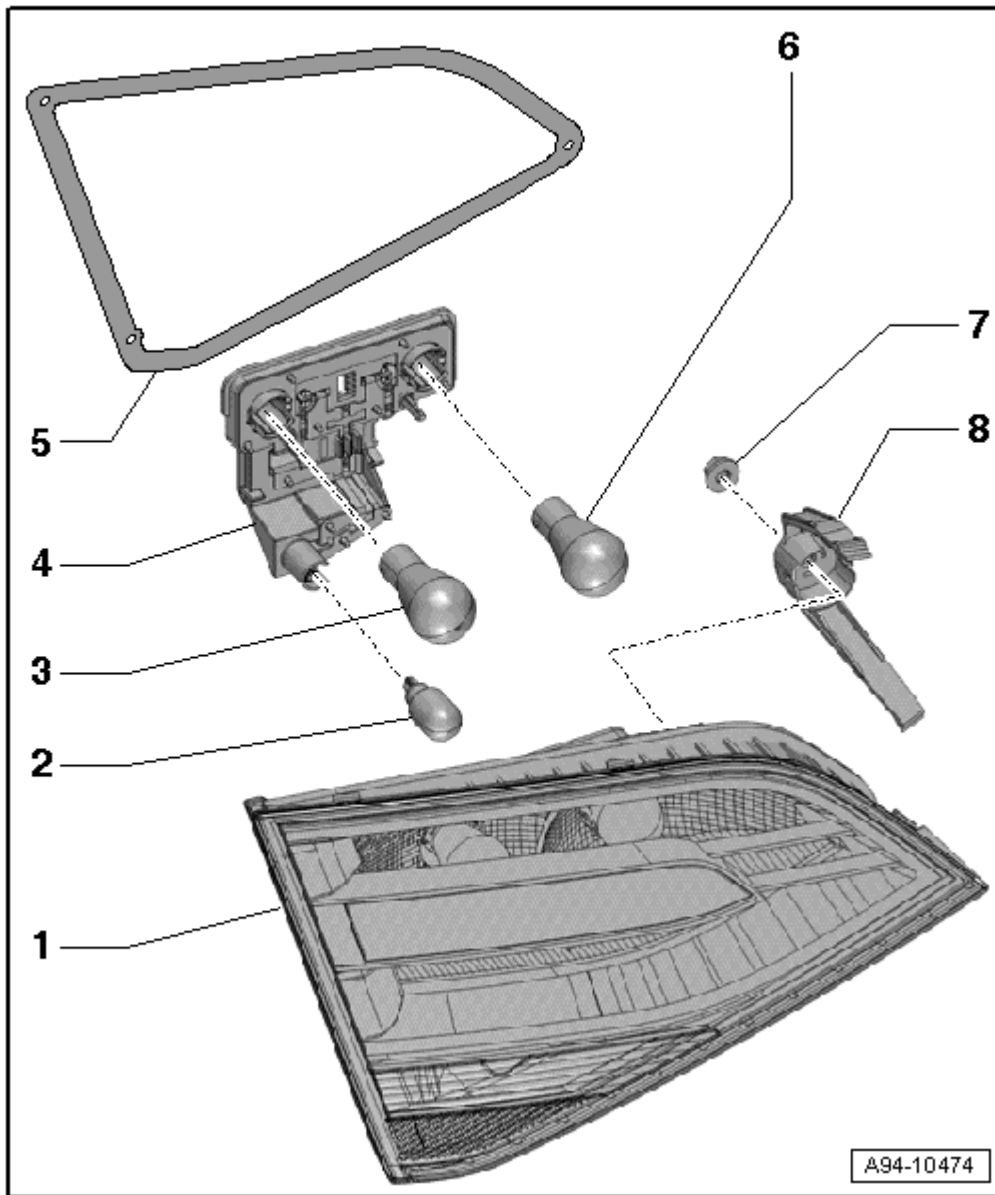
- Removing and installing **OUTER TAIL LAMP BULB**.

**6. Threaded Stud**

- 3.5 Nm

**INNER TAIL LAMP**

Observe the notes on contact corrosion. Refer to **CONTACT CORROSION**.



**Fig. 23: Inner Tail Lamp Overview**

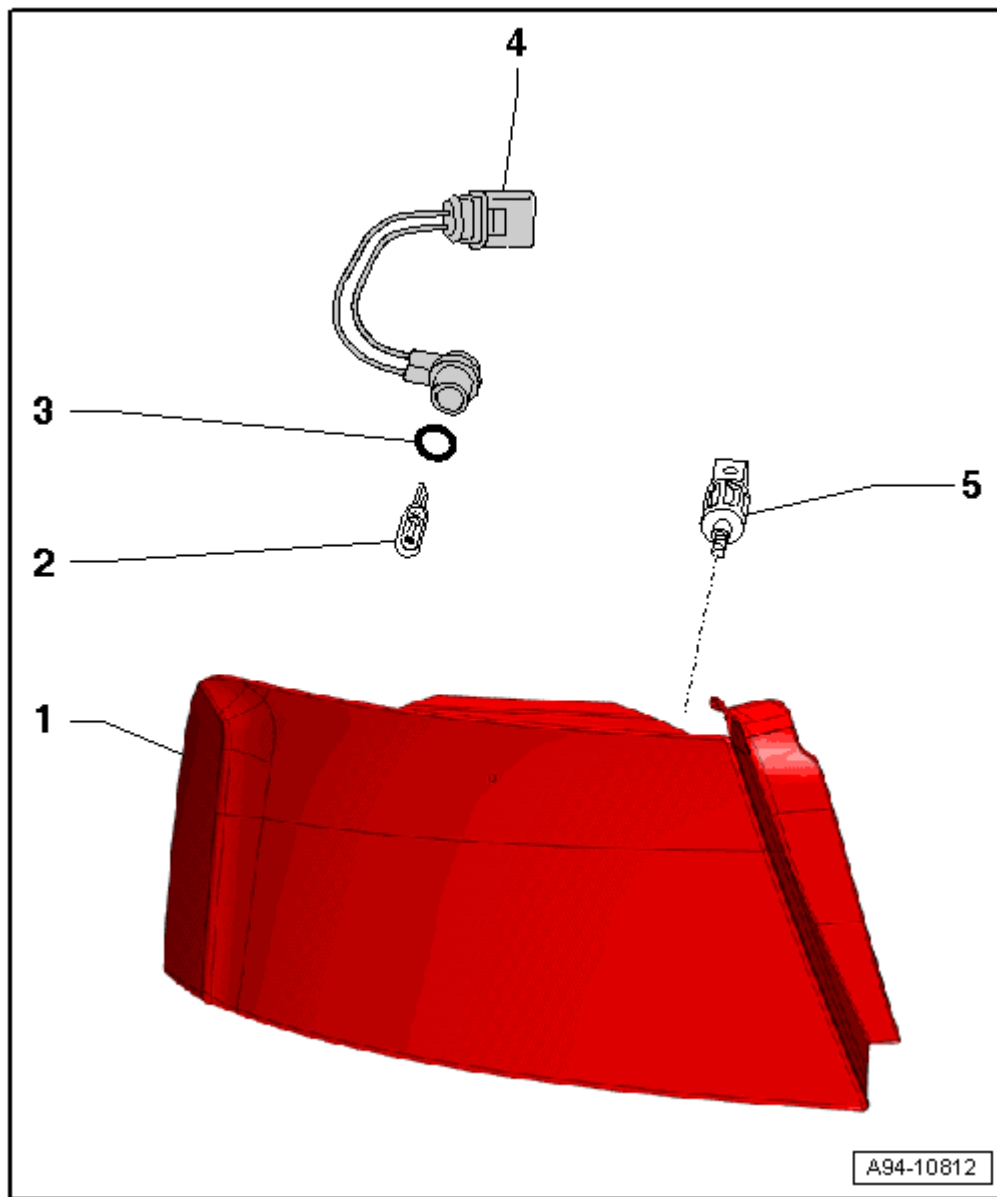
Courtesy of AUDI OF AMERICA, LLC

1. Inner Tail Lamp
  - Removing and installing, refer to **INNER TAIL LAMP**.
2. Left Backup Bulb
  - Left backup lamp bulb -M16-.
  - Right backup lamp bulb -M17-.
  - 12 V, 16 W (W16W)
  - Replacing, refer to **INNER TAIL LAMP BULB**.
3. Tail Lamp Bulb
  - Left tail lamp bulb -M4-.

- Right tail lamp bulb -M2-.
  - 12V, 21 W
  - Replacing, refer to **INNER TAIL LAMP BULB**.
4. Bulb Socket
- Removing and installing, refer to **INNER TAIL LAMP BULB**.
5. Gasket
- Replace if damaged,
6. Tail Lamp and/or Fog Lamp Bulb
- Left rear parking/fog lamp bulb -M41-.
  - Right rear parking/fog lamp bulb -M42-.
  - 12V, 21 W
  - Replacing, refer to **INNER TAIL LAMP BULB**.
7. Nut
- 3.5 Nm
8. Bracket
- For securing the tail lamp to the rear lid.

**LED TAIL LAMPS OVERVIEW, THROUGH MY 2012****OUTER TAIL LAMP**

Observe the notes on contact corrosion. Refer to **CONTACT CORROSION**.



**Fig. 24: Outer Tail Lamp Overview**

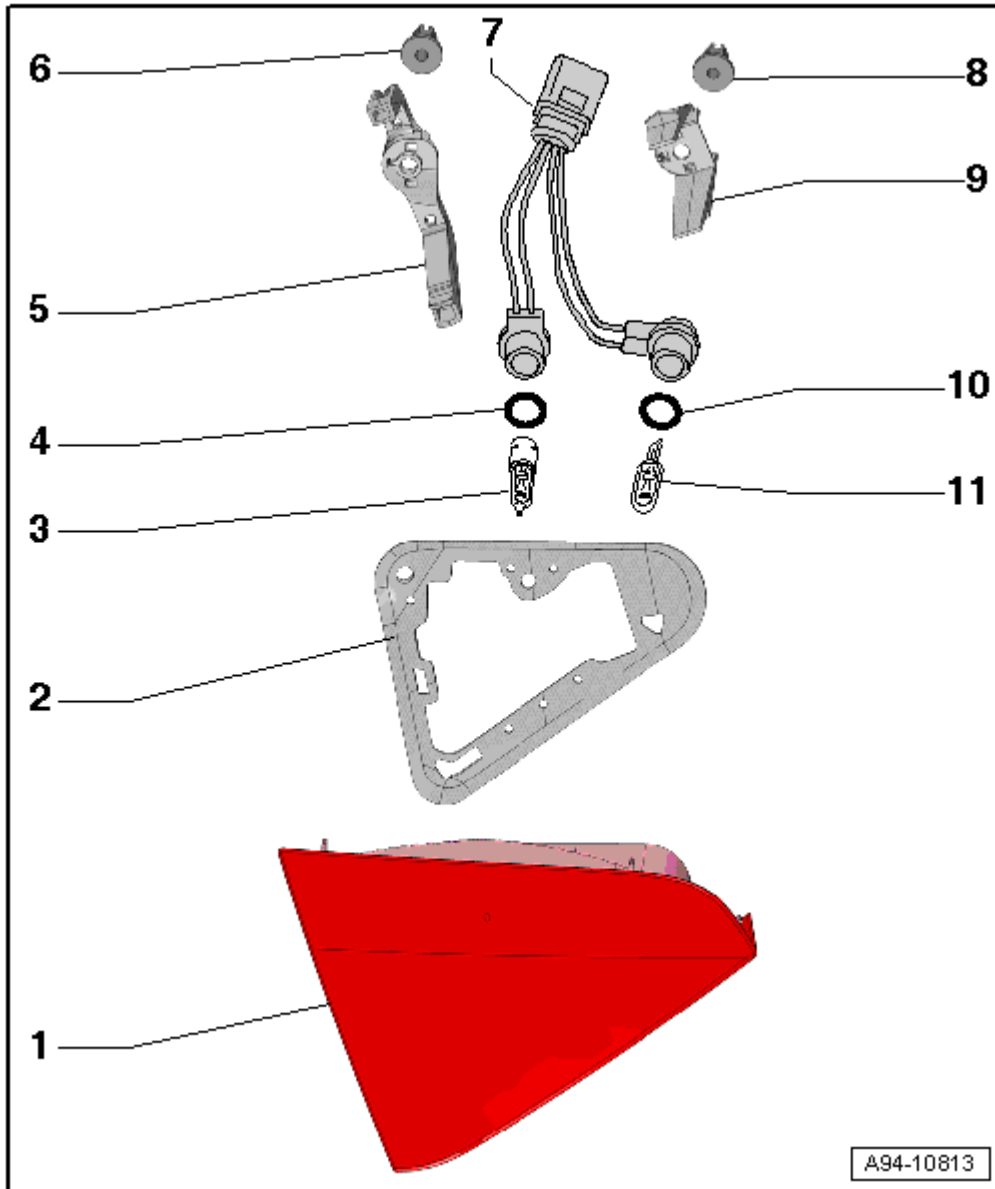
Courtesy of AUDI OF AMERICA, LLC

1. Outer Tail Lamp
  - Removing and installing, refer to **OUTER TAIL LAMP**.
2. Rear Turn Signal Bulb
  - Left rear turn signal bulb -M6-.
  - Right rear turn signal bulb -M8-.
  - 12V, 18 W (W16W)
  - Replacing, refer to **OUTER TAIL LAMP BULB**.
3. O-ring
4. Bulb Socket Central Connector

- bulb socket, removing and installing, refer to **OUTER TAIL LAMP BULB**.
5. Threaded Studs
    - 3.5 Nm

**INNER TAIL LAMP**

Observe the notes on contact corrosion. Refer to **CONTACT CORROSION**.



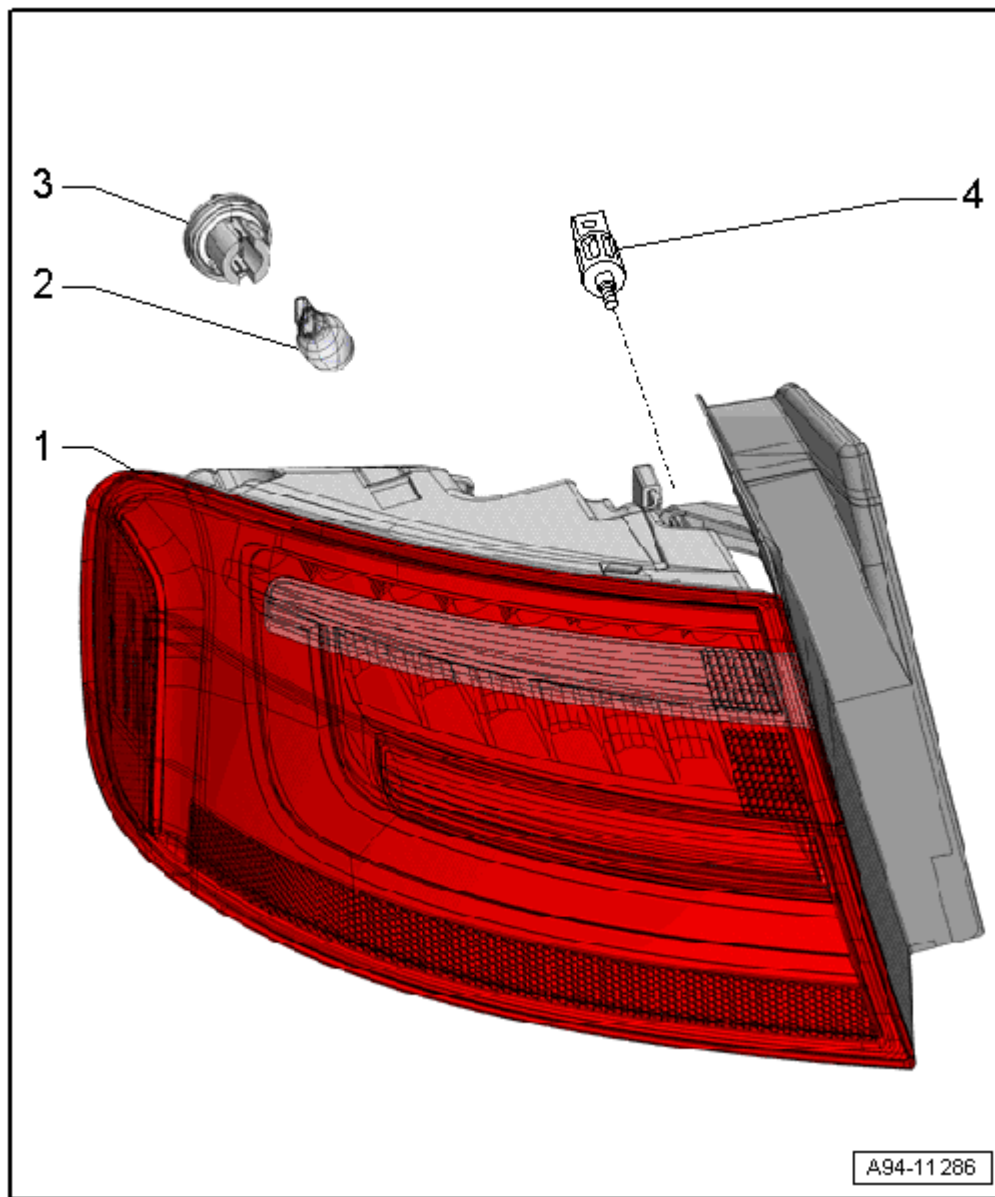
**Fig. 25: Inner Tail Lamp Overview**

Courtesy of AUDI OF AMERICA, LLC

1. Inner Tail Lamp
  - Removing and installing, refer to **INNER TAIL LAMP**.

2. Gasket
  - Replace if damaged.
3. Rear Fog Lamp Bulb
  - Left rear fog lamp bulb -L46-.
  - Right rear fog lamp bulb -L47-.
  - 12V, 21 W
  - Replacing, refer to **FOG LAMP BULB**.
4. O-ring
5. Large Bracket
  - For securing the tail lamp to the rear lid.
6. Nut
  - 3.5 Nm
7. Central Connector
  - For the lamp bulbs.
8. Nut
  - 3.5 Nm
9. Small Bracket
  - For securing the tail lamp to the rear lid.
10. O-ring
11. Left Backup Lamp Bulb
  - Left backup lamp bulb -M16-.
  - Right backup lamp bulb -M17-.
  - 12V, 18 W (W16W).
  - Replacing, refer to **BACKUP LAMP BULB**.

**LED TAIL LAMPS OVERVIEW, FROM MY 2013****OUTER TAIL LAMP**

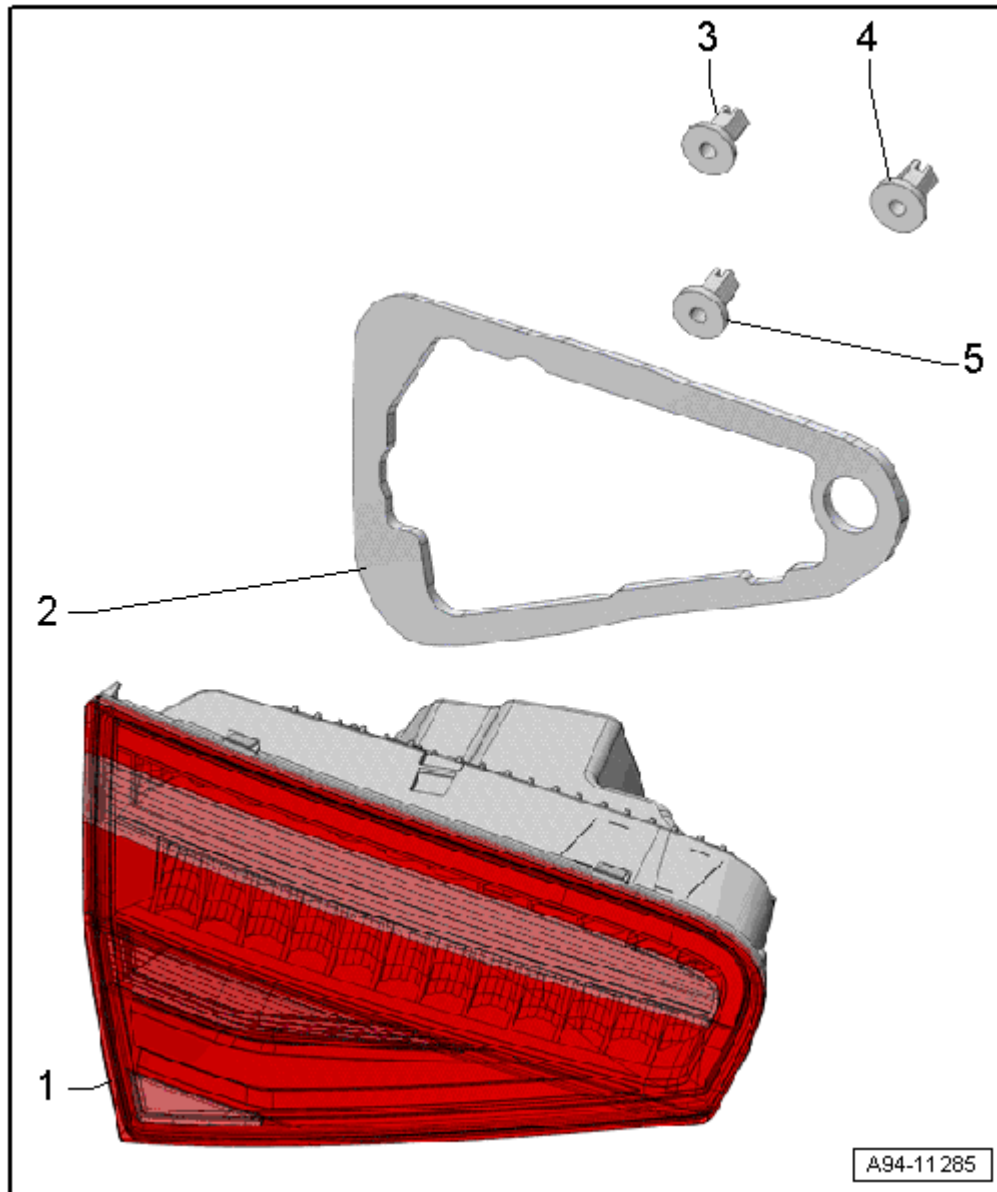


**Fig. 26: Outer Tail Lamps Overview**

Courtesy of AUDI OF AMERICA, LLC

1. Outer Tail Lamps
  - Removing and installing, refer to **OUTER TAIL LAMPS**.
2. Back-Up Lamp Bulb
  - Left back-up lamp -M16-
  - Right Back-Up Lamp -M17-
  - 12V, 18 W
  - W16W
  - Bulb, replacing refer to **BACKUP LAMP BULB -M16- / -M17-**.
3. Lamp Socket

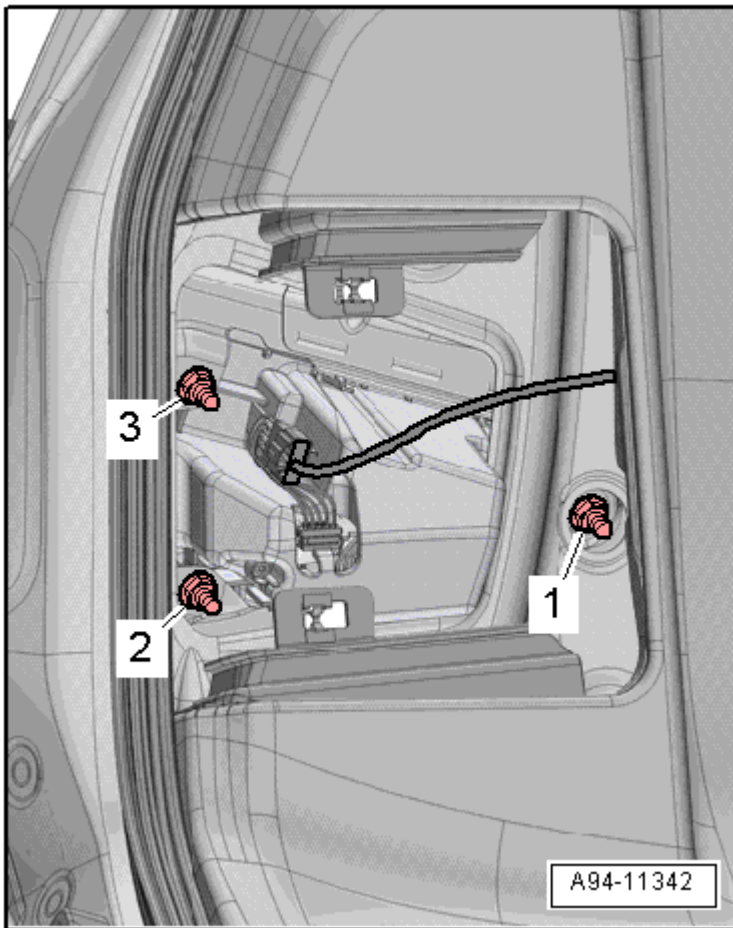
- Removing and installing, refer to **BACKUP LAMP BULB -M16- / -M17-**
4. Threaded Studs
    - 3.5 Nm

**INNER TAIL LAMP****Fig. 27: Inner Tail Lamps Overview**

Courtesy of AUDI OF AMERICA, LLC

1. Inner Tail Lamps
  - Removing and installing, refer to **INNER TAIL LAMPS.**
2. Gasket

- Replace if damaged.
- 3. Nut
  - Tightening specifications and sequence, refer to **Fig. 28**.
- 4. Nut
  - Tightening specifications and sequence, refer to **Fig. 28**.
- 5. Nut
  - Tightening specifications and sequence, refer to **Fig. 28**.



**Fig. 28: Tightening specification and sequence for the inner tail lamp**  
 Courtesy of AUDI OF AMERICA, LLC

-- Tighten the nuts to 4 Nm in sequence -1, 2 and 3--.

## SPECIFICATIONS

### FASTENER TIGHTENING SPECIFICATIONS

| Component                                       | Fastener Size | Nm |
|-------------------------------------------------|---------------|----|
| Access/Start Authorization Switch to Instrument |               |    |

## 2012 Audi S4

### ACCESSORIES & EQUIPMENT Exterior Lights, Switches (Sedan)

|                                                                                                                                              |   |     |
|----------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Panel Bolt                                                                                                                                   | - | 3   |
| Exterior Rearview Mirror Turn Signal Bulb to<br>Exterior Rearview Mirror Housing Screw                                                       | - | 0.9 |
| Fog Lamp to Body Screw                                                                                                                       | - | 4.5 |
| Headlamp Bracket to Body Screw                                                                                                               | - | 4.5 |
| Headlamp Mount to Body Screw                                                                                                                 | - | 8   |
| Mount to Headlamp Bracket Screw                                                                                                              | - | 8   |
| Parking Aid Control Module Frame to Body Nut                                                                                                 | - | 3   |
| Steering Column Clamping Ring Screw                                                                                                          | - | 4   |
| Steering Column Electronic Systems Control<br>Module to Turn Signal, Cruise Control, Windshield<br>Wiper and Washer Intermittent Switch Bolt | - | 0.5 |
| Halogen Headlamp                                                                                                                             |   |     |
| Bracket to Headlamp Screw <sup>(1)</sup>                                                                                                     | - | 1.8 |
| Bracket to Headlamp Screw <sup>(1)</sup>                                                                                                     | - | 4.5 |
| Headlamp Bracket to Vent Tube Adapter Screw                                                                                                  | - | 4.5 |
| Headlamp Range Control Positioning Motor<br>Housing Cap to Headlamp                                                                          | - | 2   |
| Headlamp Range Control Positioning Motor to<br>Headlamp Screw                                                                                | - | 1.4 |
| Headlamp to Vent Tube Adapter Screw                                                                                                          | - | 4.5 |
| Turn Signal Housing Cap to Headlamp Screw                                                                                                    | - | 2   |
| Xenon Headlamp with Cornering Light                                                                                                          |   |     |
| Bracket to Headlamp Screw <sup>(2)</sup>                                                                                                     | - | 1.8 |
| Bracket to Headlamp Screw <sup>(2)</sup>                                                                                                     | - | 4.5 |
| Bracket to Body Screw                                                                                                                        | - | 4.5 |
| Daytime Running Lamp and Parking Lamp LED<br>Module to Headlamp Screw                                                                        | - | 1.4 |
| Headlamp Range Control Positioning Motor to<br>Headlamp Screw                                                                                | - | 1.4 |
| Headlamp Range Control Positioning Motor<br>Housing Cap to Headlamp Screw                                                                    | - | 2   |
| HID Headlamp Control Module to Headlamp Screw                                                                                                | - | 1.4 |
| Power Output Stage to Headlamp Screw                                                                                                         | - | 1.4 |
| Tail Lamp, Sedan                                                                                                                             |   |     |
| Bracket to Rear Lid Nut                                                                                                                      | - | 3.5 |
| Bulb Socket to Outer Tail Lamp Screw                                                                                                         | - | 1.7 |
| LED Tail Lamp, Sedan                                                                                                                         |   |     |
| Body to Outer Tail Lamp Threaded Stud                                                                                                        | - | 3.5 |
| Bracket to Rear Lid Stud Nut <sup>(3)</sup>                                                                                                  | - | 4   |
| Bracket to Rear Lid Stud Nut <sup>(4)</sup>                                                                                                  | - |     |

## 2012 Audi S4

### ACCESSORIES & EQUIPMENT Exterior Lights, Switches (Sedan)

| Tail Lamp, Avant                                                                                                                    |   |     |
|-------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| Body to Outer Tail Lamp Threaded Stud                                                                                               | - | 3.5 |
| Bracket to Rear Lid Stud Nut                                                                                                        | - | 3.5 |
| Bulb Socket to Outer Tail Lamp Nut                                                                                                  | - | 3.5 |
| LED Tail Lamp, Avant                                                                                                                |   |     |
| Body to Outer Tail Lamp Threaded Stud                                                                                               | - | 3.5 |
| Bracket to Rear Lid Stud Nut                                                                                                        | - | 3.5 |
| Inner Tail Lamp to Lid Nut <sup>(3)</sup>                                                                                           | - | 3.5 |
| Inner Tail Lamp to Lid Nut <sup>(4)</sup>                                                                                           | - | 4   |
| (1) For clarification on the screws, see -items 9 and 11- in <b><u>HALOGEN HEADLAMP OVERVIEW, THROUGH MY 2012</u></b>               |   |     |
| (2) For clarification on the screws, see -items 10 and 17- in <b><u>HID HEADLAMP WITH CORNERING LAMP OVERVIEW, THROUGH 2012</u></b> |   |     |
| (3) Through 2012                                                                                                                    |   |     |
| (4) From 2013                                                                                                                       |   |     |

## DIAGNOSIS AND TESTING

### HEADLAMPS AND FOG LAMPS, CHECKING AND ADJUSTING

#### HALOGEN HEADLAMP, ADJUSTING

##### Checking and Adjusting Conditions

- Tire pressure OK
- The headlamp lens must be clean and dry.
- The headlamp lens may not be damaged.
- Headlamp reflectors and bulbs OK.
- Vehicle load must be created.

Vehicle load on driver's seat in otherwise unloaded vehicle (curb weight).

- One person or 75 kg (165 lbs.).

The curb weight is the weight of the operational vehicle with completely full fuel tank, including the weight of all equipment carried in operation.

- Fuel tank: at least 90% full.
- Equipment: for example, spare wheel, tools, vehicle jack, fire extinguisher, etc.

If the fuel tank is not at least 90% full, the load must be created as follows.

-- Check fuel tank fill lever in instrument cluster tank gauge and compare with the following table. Place

## 2012 Audi S4

### ACCESSORIES & EQUIPMENT Exterior Lights, Switches (Sedan)

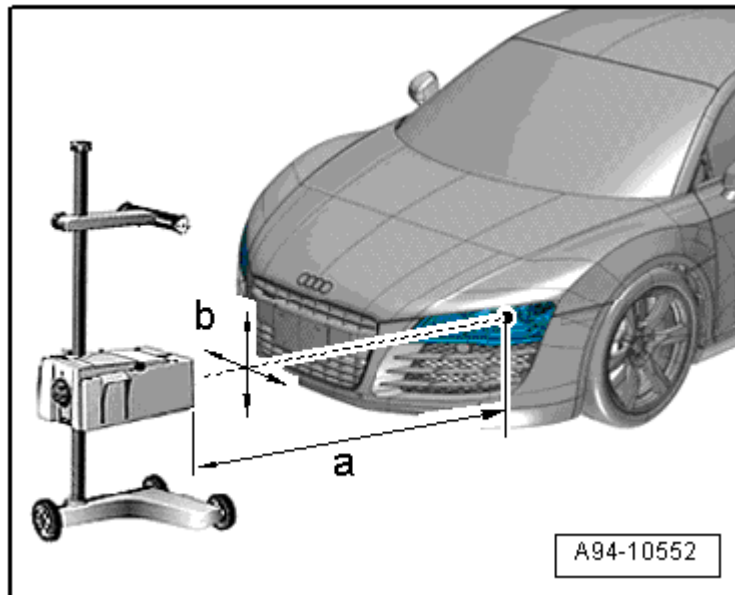
additional weight in the luggage compartment, if necessary.

| Fuel gauge | Additional Weight in kg (lbs.) |
|------------|--------------------------------|
| 1/4        | 45 (99)                        |
| 1/2        | 30 (66)                        |
| 3/4        | 15 (33)                        |
| full       | 0                              |

Example: If the fuel tank is half full, an additional 30 kg (66 lbs.) must be placed in the luggage compartment.

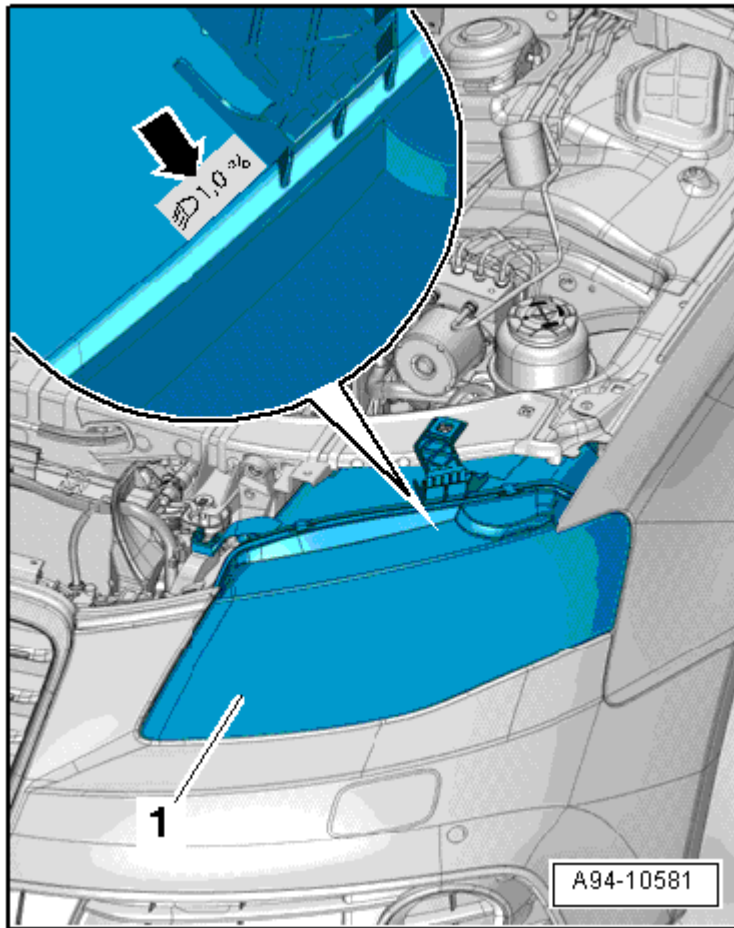
**NOTE:** Use fuel containers filled with water as additional weight (a 5 liter (1.3 gal.) fuel container filled with water weighs 5 kg (11 lbs.)).

- Roll the vehicle several yards or move it back and forth several times to seat the springs.
- The electromechanical parking brake must not be engaged so vehicle is not under stress.
- Vehicle and headlamp adjusting unit must be on a level surface.
- The headlamp adjusting unit must be aligned to the vehicle. Refer to the Headlamp adjusting unit instructions.



**Fig. 29: Headlamp Adjuster Distance**  
Courtesy of AUDI OF AMERICA, LLC

- The headlamp adjuster must be distance -a- 30 to 70 cm (12 to 27.5 in.) in front of the headlamp and should not deviate more than dimension -b- = 3 cm (1.2 in.) from the headlamp center point.
- The inclination dimension is set on the headlamp adjusting unit. Refer to the Headlamp adjusting unit instructions.
- The angle dimension -arrow- is stamped on the upper edge of the headlamp -1- in "%".



**Fig. 30: Headlamp Must Be Adjusted According To Angle Dimension Stamped On Headlamp**  
Courtesy of AUDI OF AMERICA, LLC

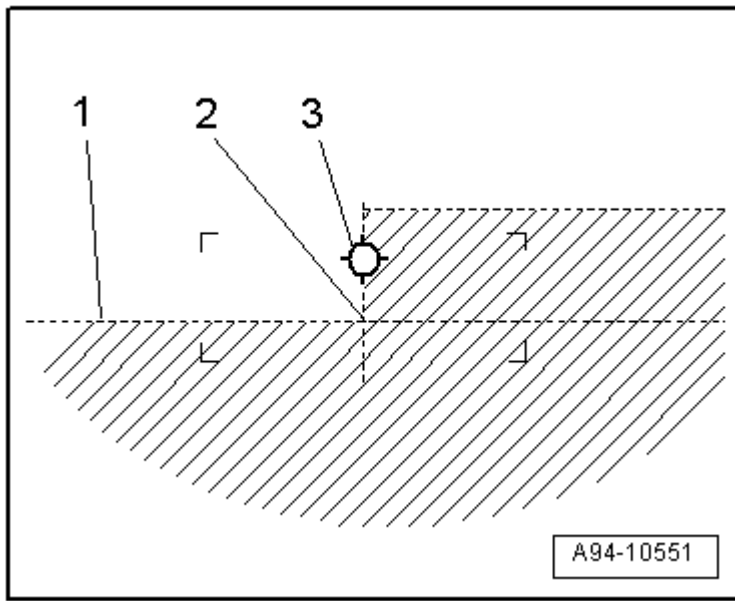
**NOTE:** The headlamp must be adjusted according to the angle dimension stamped on the headlamp.

The percentage indicator is based on a 10 meter (32.8 ft.) projection distance. At an angle dimension of 1, 0%, for example, converts to 10 cm (4 in.).

#### Procedure

- The vehicles must be standing on a flat surface.
- Turn the headlamp switch to "low beam" - not "Auto".
- Set the range position thumbwheel to the "0" position.

Headlamp adjustment



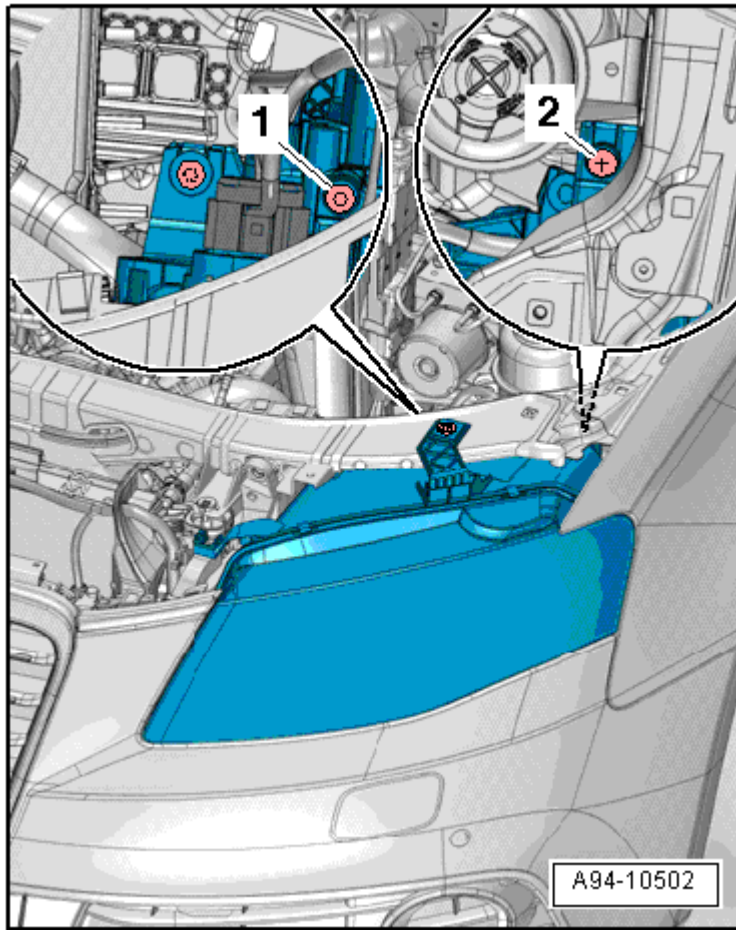
**Fig. 31: Headlamp Adjustment Graph**  
 Courtesy of AUDI OF AMERICA, LLC

- The horizontal light-dark border must touch the dividing line -1- on the adjusting unit test surface.
- The point -2- between the left horizontal part and the right vertical part of the light-dark border must run vertically through the central mark -3-. The bright core of the light beam must be to the right of the vertical.

**NOTE:** To determine the point -2- more easily, cover and uncover the left half of the headlamp several times. Then check low beam again.

**After correct headlamp adjustment, the center of the high beam light beam must be on the central marking -3-.**

-- To adjust the height of the headlamp, set the light-dark border just under the dividing line with the adjustment screw -1-.



**Fig. 32: To Adjust Height Of Headlamp, Set Light-Dark Border Just Under The Dividing Line With The Adjustment Screw**

Courtesy of AUDI OF AMERICA, LLC

-- Then adjust the light-dark border, starting from the bottom, on the dividing line.

-- For side adjustment, turn adjusting screw -2-.

**NOTE:** The allocation on the right headlamp is reversed.

#### HID HEADLAMP, ADJUSTING

##### Checking and Adjusting Conditions

- Tire pressure OK
- The headlamp lens must be clean and dry.
- The headlamp lens may not be damaged.
- Headlamp reflectors and bulbs OK.

Vehicle load on driver's seat in otherwise unloaded vehicle (curb weight).

## 2012 Audi S4

### ACCESSORIES & EQUIPMENT Exterior Lights, Switches (Sedan)

- One person or 75 kg (165 lbs.).

The curb weight is the weight of the operational vehicle with completely full fuel tank, including the weight of all equipment carried in operation.

- Fuel tank: at least 90% full.
- Equipment: for example, spare wheel, tools, vehicle jack, fire extinguisher, etc.

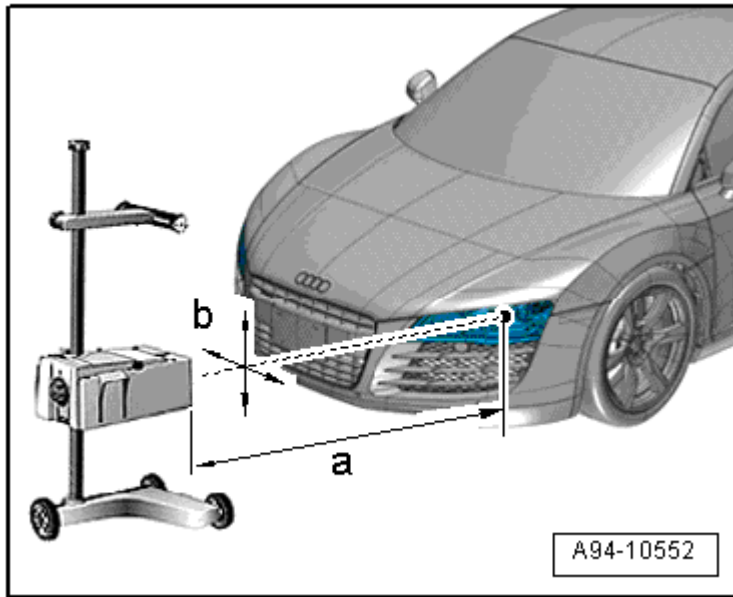
If the fuel tank is not at least 90% full, the load must be created as follows.

-- Check fuel tank fill lever in instrument cluster tank gauge and compare with the following table. Place additional weight in the luggage compartment, if necessary.

| Fuel gauge                                                                                             | Additional Weight in kg (lbs.) |
|--------------------------------------------------------------------------------------------------------|--------------------------------|
| 1/4                                                                                                    | 45 (99)                        |
| 1/2                                                                                                    | 30 (66)                        |
| 3/4                                                                                                    | 15 (33)                        |
| full                                                                                                   | 0                              |
| Example: If the fuel tank is half full, an additional 30 kg must be placed in the luggage compartment. |                                |

**NOTE:** Use fuel containers filled with water as additional weight (a 5 liter (1.3 gal.) fuel container filled with water weighs 5 kg (11 lbs.)).

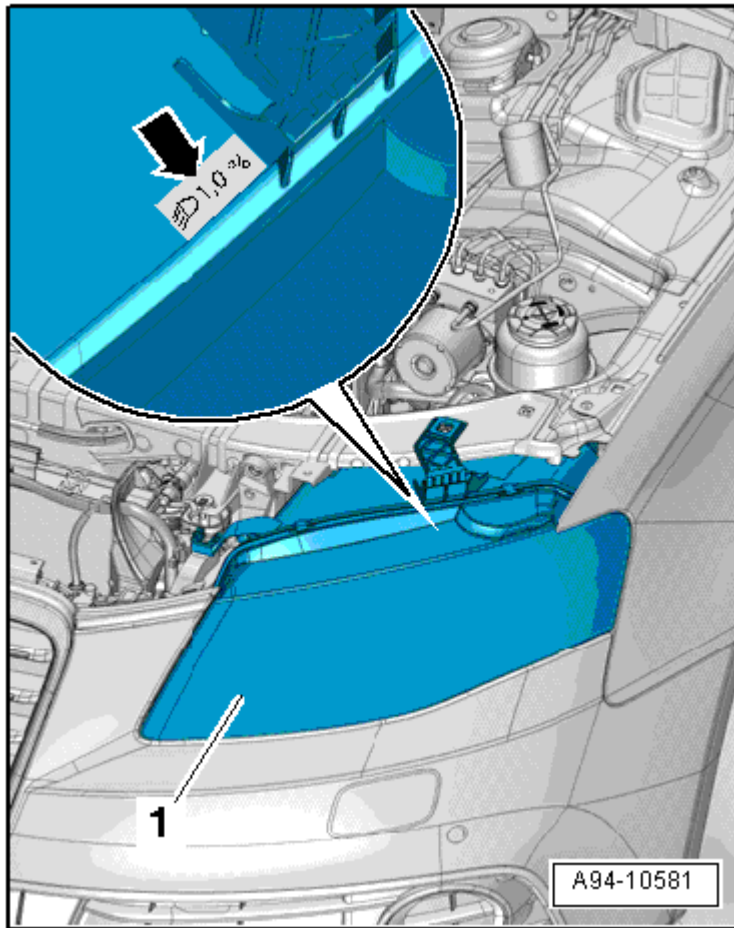
- Roll the vehicle several yards or move it back and forth several times to seat the springs.
- The electromechanical parking brake must not be engaged so vehicle is not under stress.
- Vehicle and headlamp adjusting unit must be on a level surface.
- The headlamp adjusting unit must be aligned to the vehicle. Refer to the Headlamp adjusting unit instructions.



**Fig. 33: Headlamp Adjuster Distance**

Courtesy of AUDI OF AMERICA, LLC

- The headlamp adjuster must be distance -a- 30 to 70 cm (12 to 27.5 in.) in front of the headlamp and should not deviate more than dimension -b- = 3 cm (1.2 in.) from the headlamp center point.
- The inclination dimension is set on the headlamp adjusting unit. Refer to the Headlamp adjusting unit operating instructions.
- The angle dimension -arrow- is stamped on the upper edge of the headlamp -1- in "%".



**Fig. 34: Headlamp Must Be Adjusted According To Angle Dimension Stamped On Headlamp**  
Courtesy of AUDI OF AMERICA, LLC

**NOTE:** The headlamp must be adjusted according to the angle dimension stamped on the headlamp.

The percentage indicator is based on a 10 meter (32.8 ft.) projection distance. At an angle dimension of 1, 0%, for example, converts to 10 cm (4 in.).

#### Procedure

- The vehicles must be standing on a flat surface.
- Turn the headlamp switch to "low beam" - not "Auto".
- Close all the doors and the rear lid and keep them closed for the duration of the testing/adjusting procedure.
- To prepare for the headlamp adjustment, in "Guided Functions", select "basic setting" on the Vehicle Diagnostic Tester.

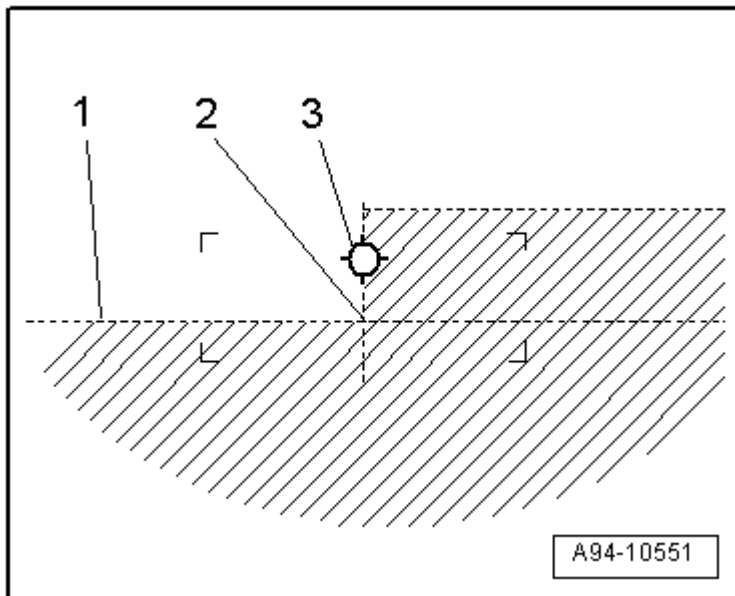
**NOTE:** The headlamps move into the basic setting with this program.

-- Select the function or path:

|                                    |
|------------------------------------|
| Vehicle brand                      |
| Vehicle model                      |
| Engine codes                       |
| 55 - Dynamic range control J431    |
| 55 Basic setting (repair group 94) |

-- During the program, you will be asked to perform a headlamp adjustment.

Headlamp adjustment



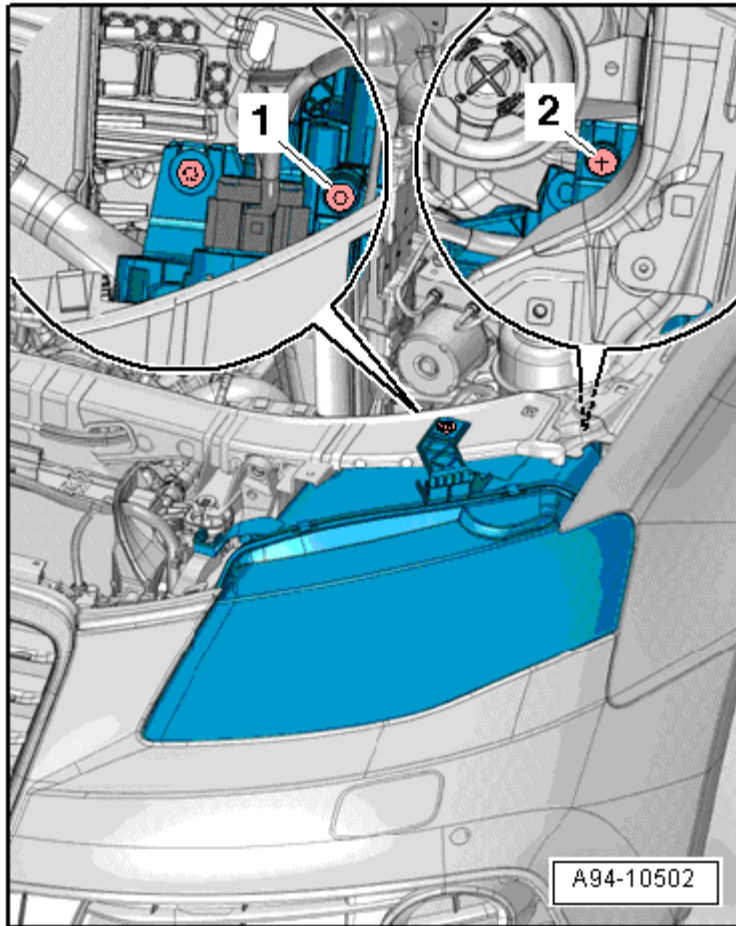
**Fig. 35: Headlamp Adjustment Graph**  
Courtesy of AUDI OF AMERICA, LLC

- The horizontal light-dark border must touch the dividing line -1- on the adjusting unit test surface.
- The point -2- between the left horizontal part and the right vertical part of the light-dark border must run vertically through the central mark -3-. The bright core of the light beam must be to the right of the vertical.

**NOTE:** To determine the point -2- more easily, cover and uncover the left half of the headlamp several times. Then check low beam again.

After correct headlamp adjustment, the center of the high beam light beam must be on the central marking -3-.

-- To adjust the height of the headlamp, set the light-dark border just under the dividing line with the adjustment screw -1-.



**Fig. 36: Adjust Height Of Headlamp, Set The Light-Dark Border Just Under Dividing Line With Adjustment Screw**

Courtesy of AUDI OF AMERICA, LLC

-- Then adjust the light-dark border, starting from the bottom, on the dividing line.

-- For side adjustment, turn adjusting screw -2-.

**NOTE:** The allocation on the right headlamp is reversed.

-- After the headlamp is adjusted, complete the "basic setting". Switch off the ignition and disconnect the diagnostic connector.

#### FOG LAMP, ADJUSTING

##### Checking and Adjusting Conditions

- Tire pressure OK.

- The headlamp lens must be clean and dry.
- The headlamp lens may not be damaged.
- Headlamp-reflector and lamp OK.
- Roll the vehicle several yards or move it back and forth several times to seat the springs.
- Parking brake must not be engaged so vehicle is not under stress.
- Vehicle and headlamp adjusting unit must be on a level surface.
- The headlamp adjusting unit must be aligned to the vehicle. Refer to the Headlamp adjusting unit instructions.
- The inclination dimension is set on the headlamp adjusting unit. Refer to the Headlamp adjusting unit instructions.
- Vehicle load must be created.

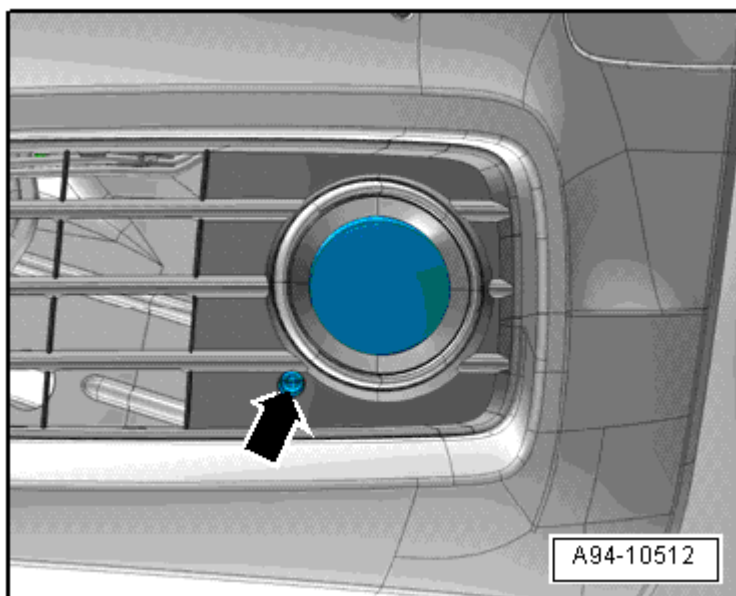
Vehicle load on driver's seat in otherwise unloaded vehicle (curb weight).

- One person or 75 kg (165 lbs.).

### Procedure

- The vehicles must be standing on a flat surface.
- Turn the headlamp switch to "low beam" - not "Auto".
- Pull the headlamp switch to "fog lamp".
- During the program, you will be asked to perform a headlamp adjustment.

### Headlamp adjustment



**Fig. 37: Headlamp Adjustment**

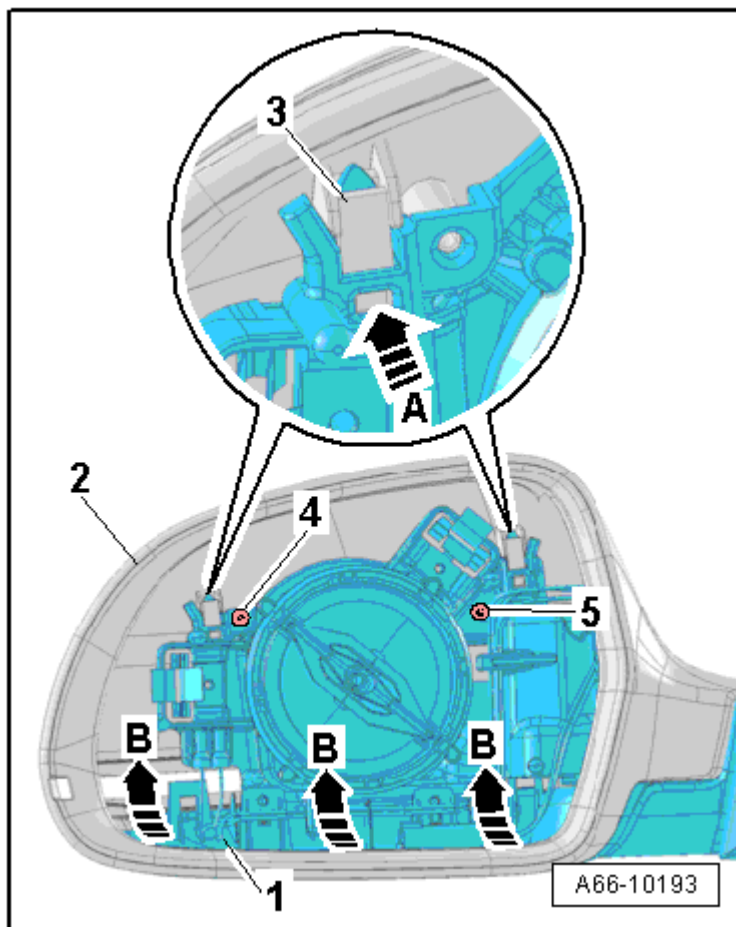
Courtesy of AUDI OF AMERICA, LLC

-- To adjust headlamp range, turn adjusting screw -arrow-.

- Angle dimension: 2%.

**NOTE:** The percentage indicator is based on a 10 meter projection distance. At an angle dimension of 2, 0%, for example, converts to 20 cm (7.8 in.).

Side adjustment is not intended.

**REMOVAL AND INSTALLATION****EXTERIOR MIRROR TURN SIGNAL LAMPS, THROUGH 05.09****Removing**

**Fig. 38: Releasing Retaining Tabs, Retaining Clips & Removing Exterior Rearview Mirror Housing From Cover**

Courtesy of AUDI OF AMERICA, LLC

-- Remove the mirror glass. Refer to **Removal and Installation** .

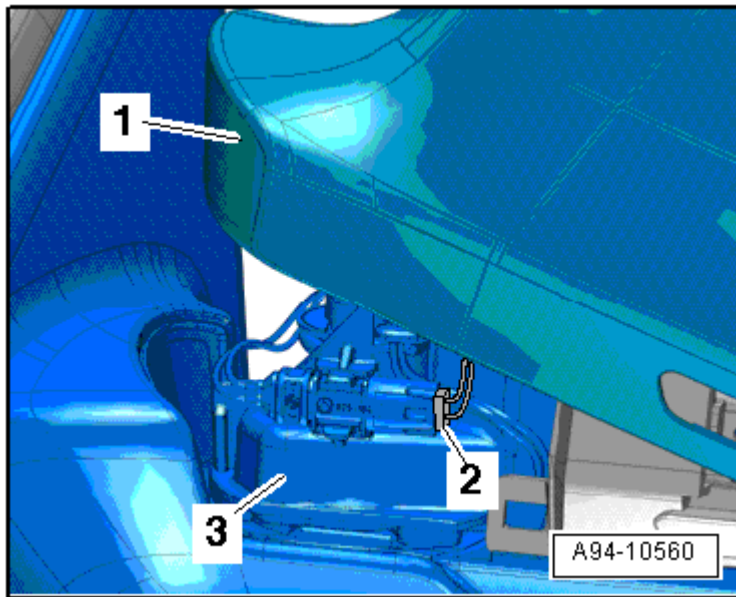
**NOTE:** To protect the paint in the area around the mirror housing, tape it off with a soft cloth.

-- Remove the screws -4 and 5-.

-- Release the retaining tabs -3- in the -direction of arrow A-.

-- Release the retaining clip -1- and remove the exterior rearview mirror housing -2- from the cover -B arrows-.

-- Press the mirror adjusting unit down and pull the exterior rearview mirror housing -1- upward slightly.

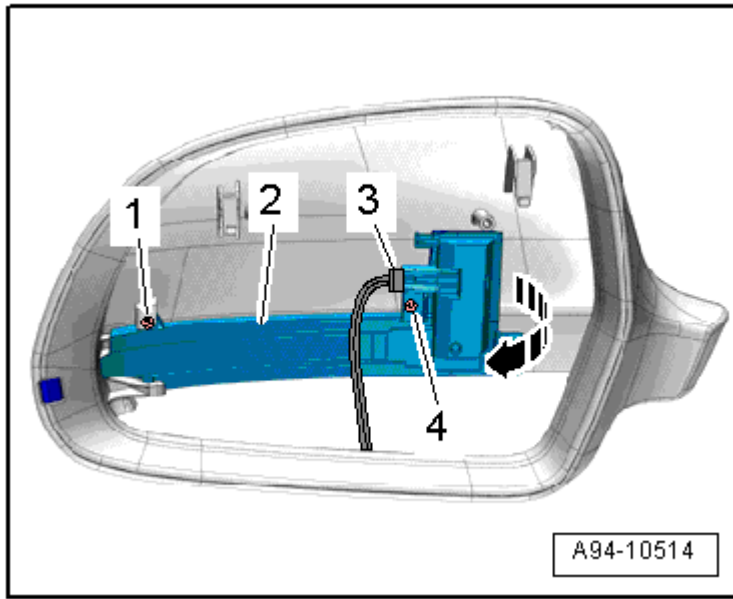


**Fig. 39: Exterior Rearview Mirror Housing, Lane Change Assist Warning Lamp Electrical Connector & Mirror Adjusting Unit Mount**

Courtesy of AUDI OF AMERICA, LLC

-- If applicable, disconnect the lane change assistance warning lamp electrical connector -2- on the front side of the mirror adjusting unit mount -3-.

-- Pull the exterior mirror housing upward and disconnect the electrical connector -3-.

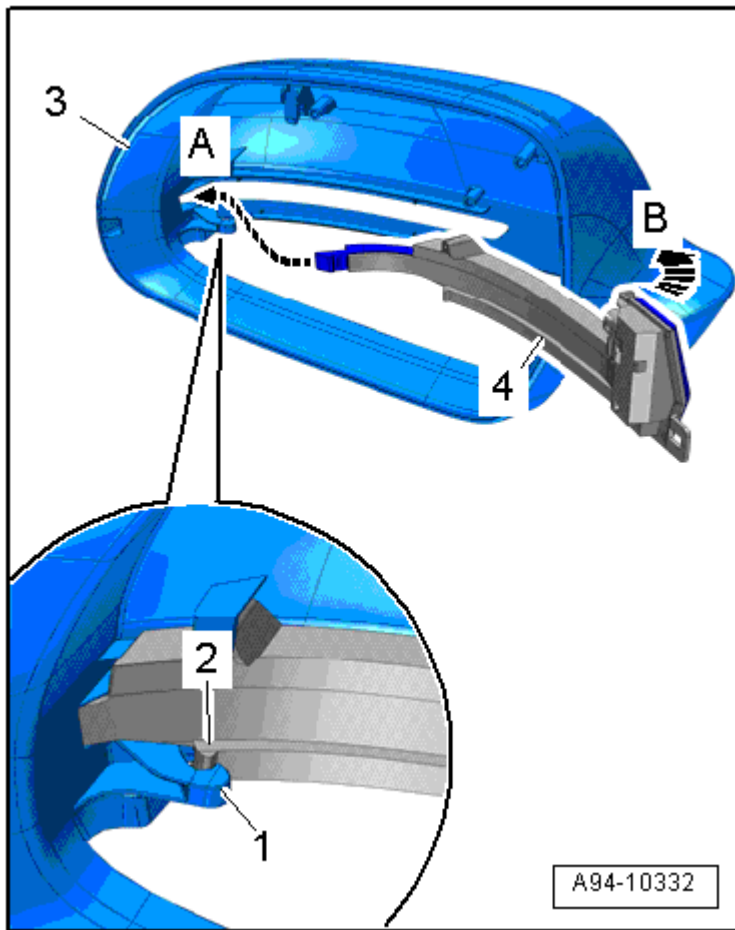


**Fig. 40: Bolts, Turn Signal Housing, Exterior Rearview Mirror Turn Signal Electrical Connector & Exterior Rearview Mirror Housing**  
Courtesy of AUDI OF AMERICA, LLC

-- Remove the screws -1 and 4-.

-- Tilt the turn signal housing -2- out of the exterior rearview mirror housing -arrow-.

### Installing



**Fig. 41: Mount, Locking Tab, Exterior Rearview Mirror Housing & Signal Bulb Housing**  
 Courtesy of AUDI OF AMERICA, LLC

- Tightening specifications, refer to **EXTERIOR REARVIEW MIRROR TURN SIGNALS THROUGH 05.09, OVERVIEW.**

Install in reverse order of removal, observing the following:

**NOTE:** The entire exterior mirror turn signal must be replaced if a Light Emitting Diode (LED) is faulty.

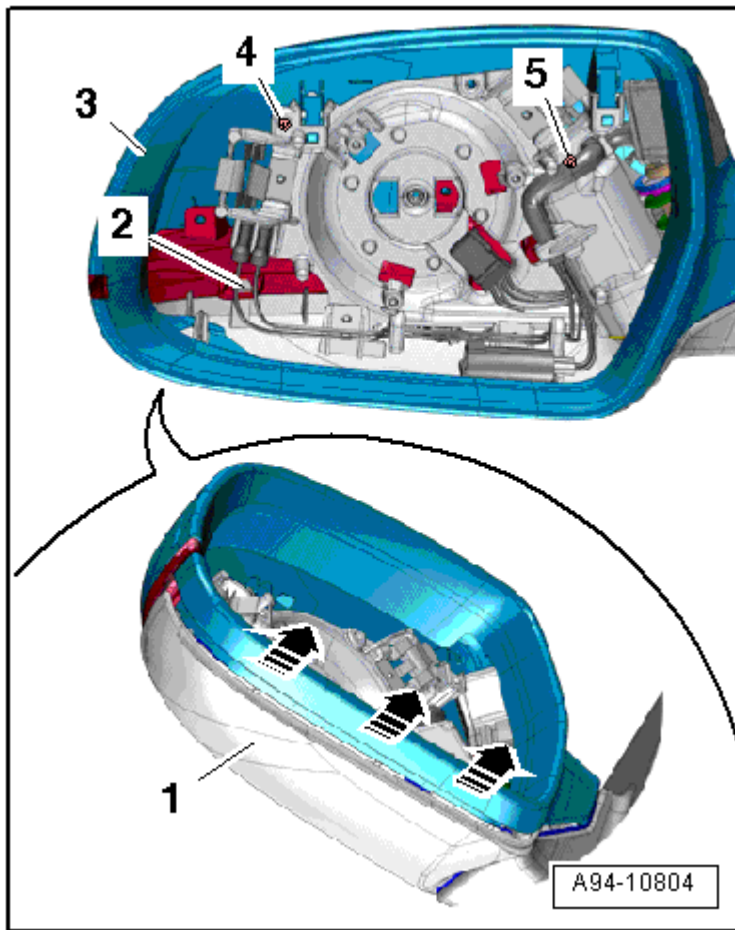
-- Insert the tip of the turn signal in the slit in the exterior rearview mirror housing -3- -arrow A-.

-- Tilt the turn signal bulb housing -4- into the exterior rearview mirror housing -arrow B-. The locking tab -2- must engage in the mount -1-.

-- Install the exterior rearview mirror housing. Refer to **Removal and Installation** .

**EXTERIOR MIRROR TURN SIGNAL LAMPS, FROM 06.09**

**Removing**



**Fig. 42: Exterior Mirror Housing -3- From The Cover -1-**  
Courtesy of AUDI OF AMERICA, LLC

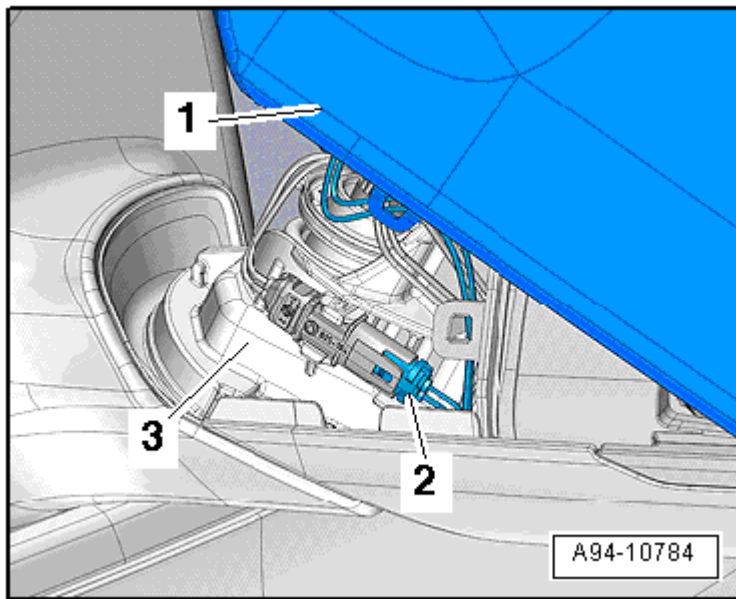
-- Remove the mirror glass. Refer to **Removal and Installation** .

**NOTE:** To protect the paint in the area around the mirror housing, tape it off with a soft cloth.

-- Remove the screws -4 and 5-.

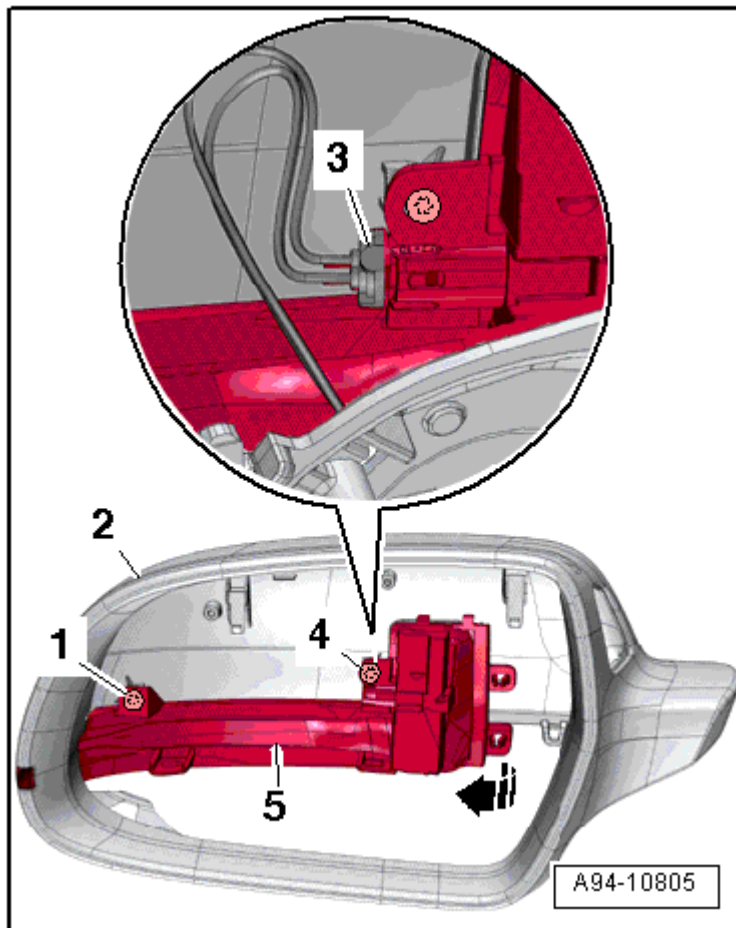
-- Open the clips -2- and remove the exterior mirror housing -3- from the cover -1- -arrows-.

-- On vehicles with lane change assist, pull the exterior mirror housing -1- just far enough until the connector is visible.



**Fig. 43: Assistance Warning Lamp Connector -2-, Adjustment Unit Bracket -3-**  
Courtesy of AUDI OF AMERICA, LLC

- Disconnect the electrical connector -2- for the lane change assist warning lamp on the front side of the mirror adjusting unit mount -3-.
- Pull the exterior mirror housing -2- upward and disconnect the connector -3-.

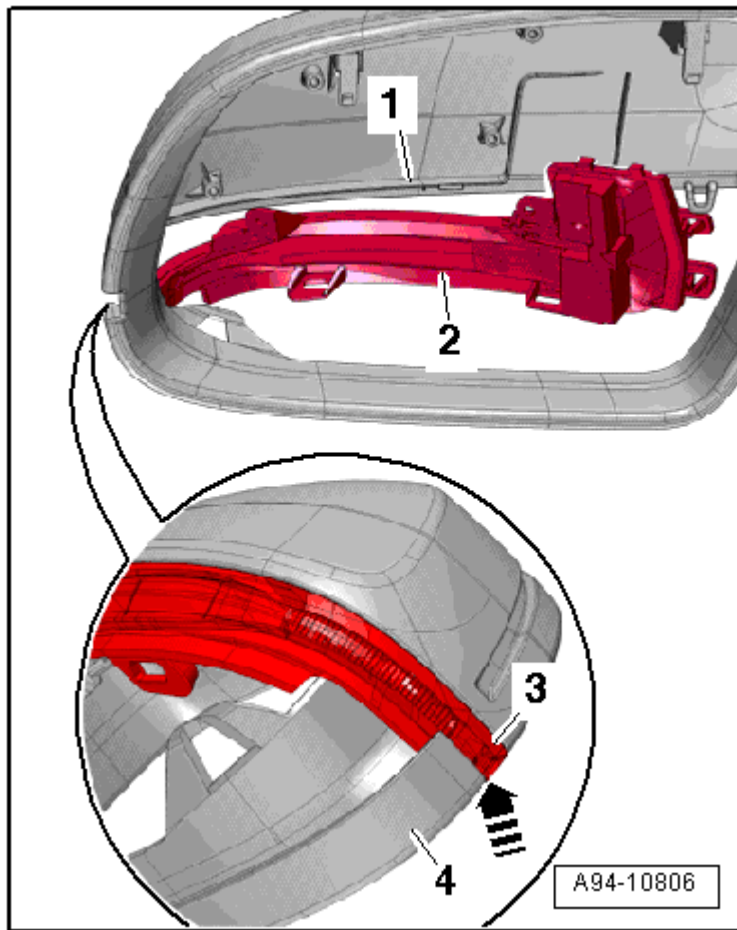


**Fig. 44: Exterior Mirror Housing -2-, Connector -3-**  
Courtesy of AUDI OF AMERICA, LLC

-- Remove the screws -1 and 4-.

-- Tilt the turn signal housing -5- out of the exterior rearview mirror housing -arrow-.

### Installing



**Fig. 45: Tilt Turn Signal Housing Out Of Exterior Rearview Mirror Housing**  
Courtesy of AUDI OF AMERICA, LLC

- Tightening specifications, refer to **EXTERIOR REARVIEW MIRROR TURN SIGNALS FROM 06.09, OVERVIEW.**

Install in reverse order of removal, observing the following:

**NOTE:** The entire exterior mirror turn signal must be replaced if a Light Emitting Diode (LED) is faulty.

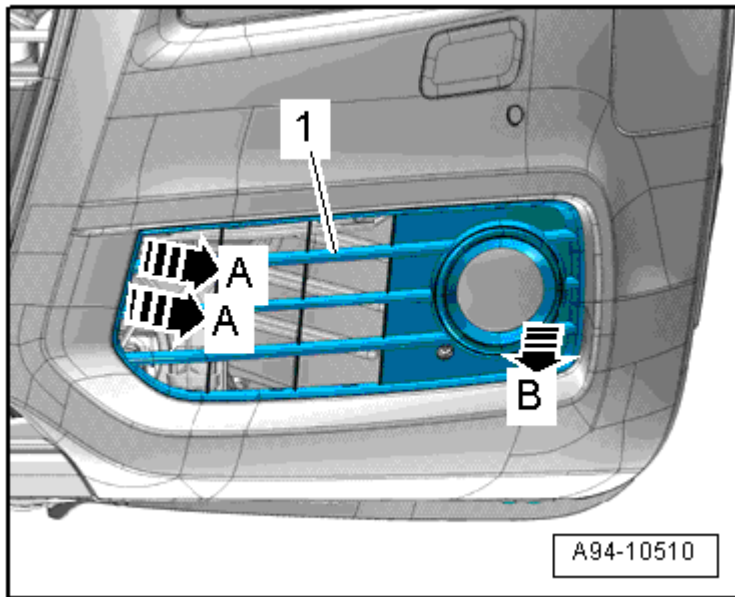
-- Insert the tip of the turn signal -3- into the opening in the exterior mirror housing -4- -arrow-.

-- Place the turn signal bulb housing -2- into the outside mirror housing; make sure the groove fits into the guide -1-.

-- Install the exterior rearview mirror housing. Refer to **Removal and Installation** .

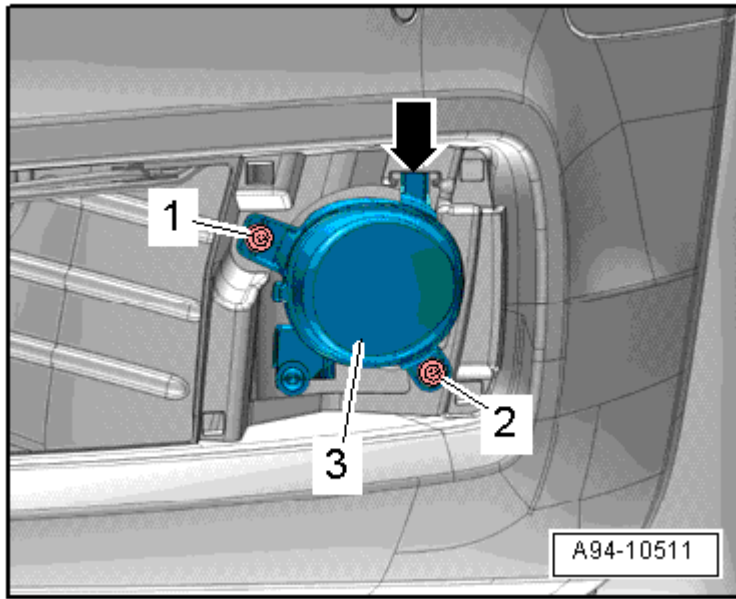
#### FOG LAMPS, THROUGH 2012

#### LAMP

**Removing**

**Fig. 46: Release clamps and remove air intake grille**  
Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the ignition key.
- Turn the light switch to the "0" position.
- Release the retaining hooks -A arrows- with a screwdriver.
- Remove the bumper cover air inlet grille -1- -arrow B-.
- Remove the screws -1 and 2-.



**Fig. 47: Remove Screws**

Courtesy of AUDI OF AMERICA, LLC

- Remove the fog lamp -3- from the bumper cover while guiding the retaining tab -arrow- out of the mount.
- Disconnect the electrical connector.

### Installing

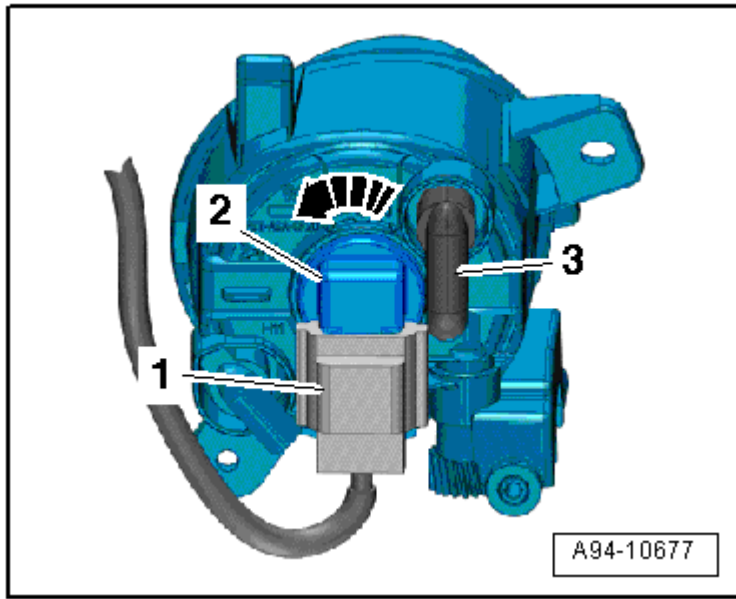
- Tightening specification, refer to **FOG LAMP OVERVIEW, THROUGH MY 2012.**

Install in reverse order of removal, observing the following:

- Adjust the fog lamps. Refer to **HEADLAMPS AND FOG LAMPS, CHECKING AND ADJUSTING.**

**BULBS -L22- / -L23-**

### Removing



**Fig. 48: Loosen Front Area Of Front Wheel Housing Liner**  
Courtesy of AUDI OF AMERICA, LLC

- Loosen the front area of the front wheel housing liner. Refer to **Removal and Installation** .
- Disconnect the electrical connector -1- from the bulb.
- Remove the vent hose -3- on the left side of the fog lamp.
- Rotate the bulb -2- counterclockwise -arrow- and remove it from the fog lamp.

### Installing

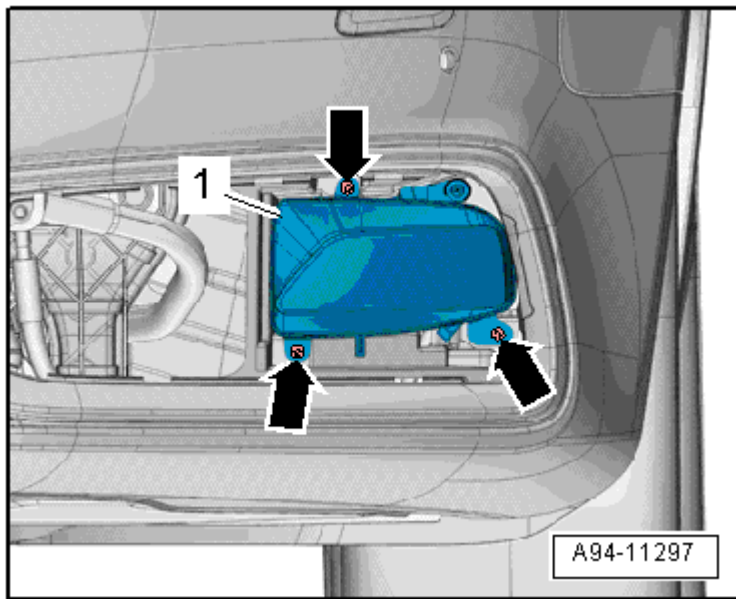
Install in reverse order of removal, observing the following:

- Insert the new bulb into the fog lamp without touching the bulb with bare hands.
- Rotate the bulb clockwise to secure.
- Mount the vent hose on the left side of the fog lamp.
- Install the front wheel housing liner. Refer to **Removal and Installation** .

### FOG LAMPS, FROM MY 2013

#### FOG LAMP

### Removing



**Fig. 49: Identifying Fog Lamp**

Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the key.
- Turn the headlamp switch to "0".
- Remove the air intake grille. Refer to **Removal and Installation** .
- Remove the bolts -arrows-.
- Remove the fog lamp -1- from the bumper cover.
- Disconnect the connector.

### Installing

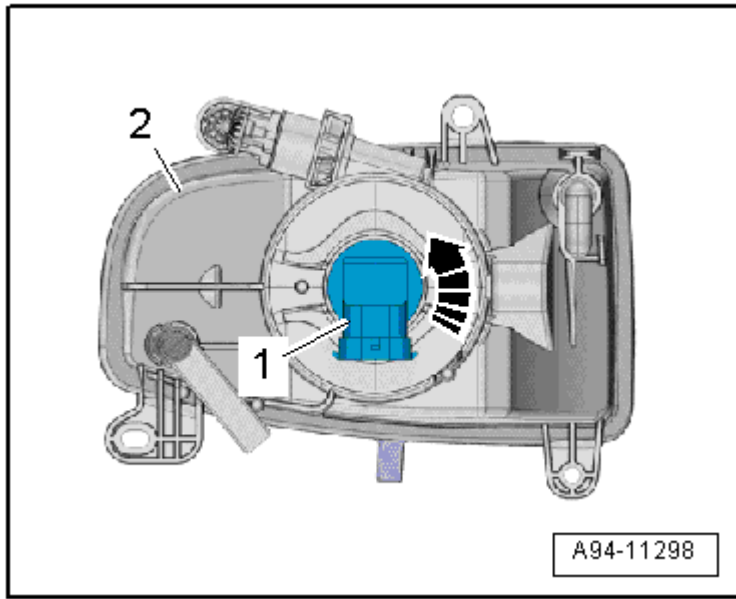
- Tightening specification, refer to **FOG LAMPS OVERVIEW, FROM MY 2013**.

Install in reverse order of removal. Note the following:

- Install the air intake grille. Refer to **Removal and Installation** .
- Adjusting fog lamps, refer to **HEADLAMPS AND FOG LAMPS, CHECKING AND ADJUSTING**.

**FOG LAMP BULBS -L22- / -L23-**

### Removing



**Fig. 50: Removing Fog Lamp Bulbs**  
Courtesy of AUDI OF AMERICA, LLC

-- Remove fog lamp. Refer to **FOG LAMP**.

-- Rotate the bulb -1- counterclockwise -arrow- and remove it from the fog lamp housing -2-.

### Installing

Install in reverse order of removal. Note the following:

-- Insert new bulb in the housing. Do not touch the glass bulbs with bare hands.

-- Rotate the bulb clockwise to secure.

-- Install fog lamp. Refer to **FOG LAMP**.

### HALOGEN HEADLAMPS, THROUGH 2012

#### FRONT DAYTIME RUNNING LAMP BULBS -L174- / -L175-

### Special tools and workshop equipment required

- Protective Gloves
- Protective Eyewear
- Box Cutter

### Removing

-- Remove the headlamp. Refer to **HEADLAMP**.

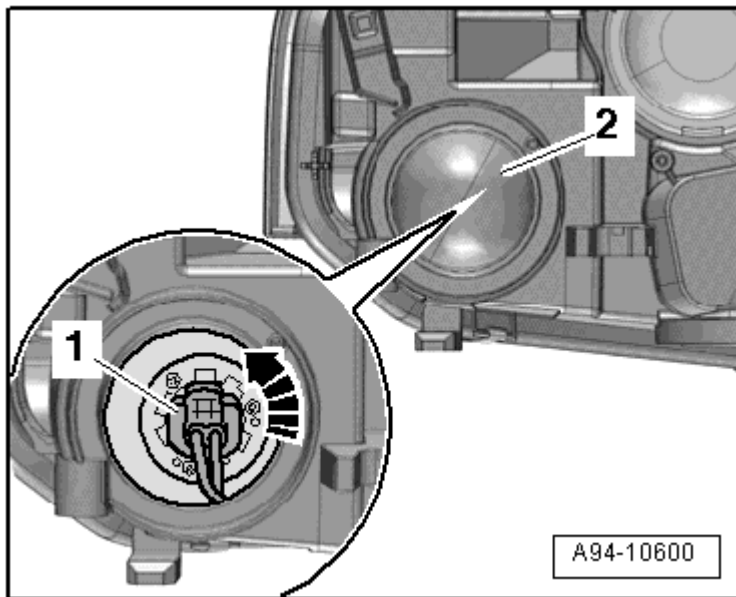
**NOTE:** To replace the daytime running lamp bulb, the headlamp housing must be cut at the location provided with a sharp box cutter.

A cap can be ordered to seal the opening.

**WARNING:** There is a risk of injury and damage.

- Wear protective gloves and eyewear.
- To avoid damaged electrical wires in the headlamp, do not cut too deep.

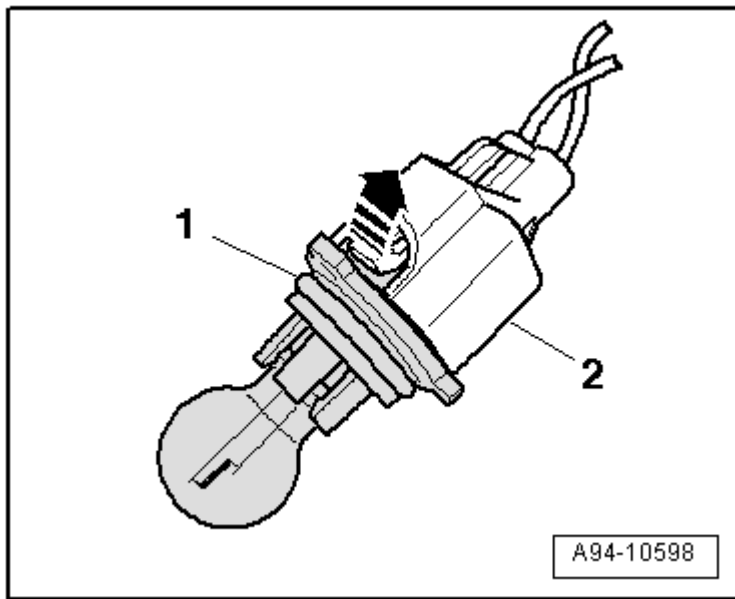
-- Cut the cover -2- out of the headlamp with a sharp box cutter.



**Fig. 51: Turn Socket Counterclockwise**  
Courtesy of AUDI OF AMERICA, LLC

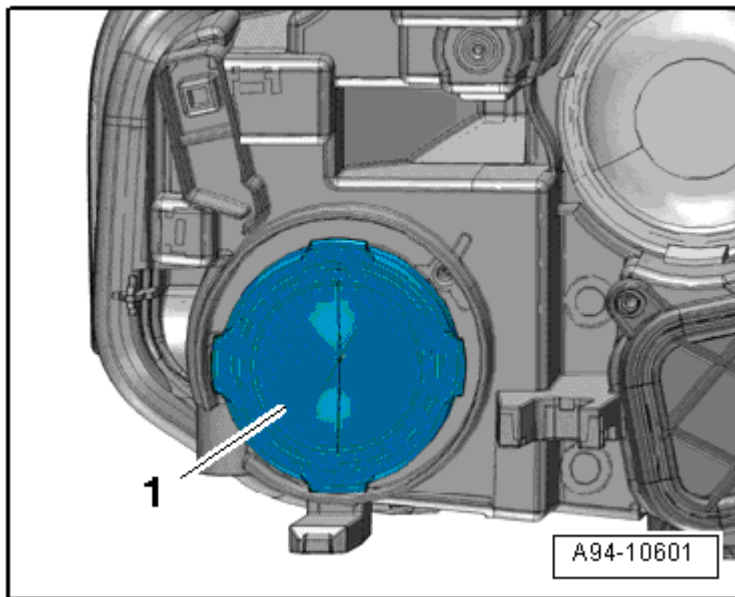
-- Turn the socket -1- counterclockwise -arrow- and remove it from the headlamp.

-- Release the retaining spring -arrow- and disconnect the electrical connector -2- from the socket -1-.



**Fig. 52: Disconnect Electrical Connector**  
Courtesy of AUDI OF AMERICA, LLC

### Installing



**Fig. 53: Install In Reverse Order Of Removal**  
Courtesy of AUDI OF AMERICA, LLC

Install in reverse order of removal, observing the following:

- Insert the new bulb in the headlamp socket, taking care not to touch the glass bulb with bare hands.
- Close the opening in the headlamp with the cap -1- from the repair kit.

-- Install the headlamp. Refer to **HEADLAMP**.

**FRONT SIDE MARKER LAMP BULBS -M33- / -M34-**

The front side marker lamp bulb is a Light Emitting Diode (LED) and is integrated in the headlamp housing. The LED cannot be replaced. The entire headlamp must be replaced.

-- Replace the headlamp. Refer to **HEADLAMP**.

**FRONT TURN SIGNAL LAMP BULBS -M5- / -M7-****Special tools and workshop equipment required**

- Protective gloves
- Protective eyewear
- Box cutter

**Removing**

-- Remove the headlamp. Refer to **HEADLAMP**.

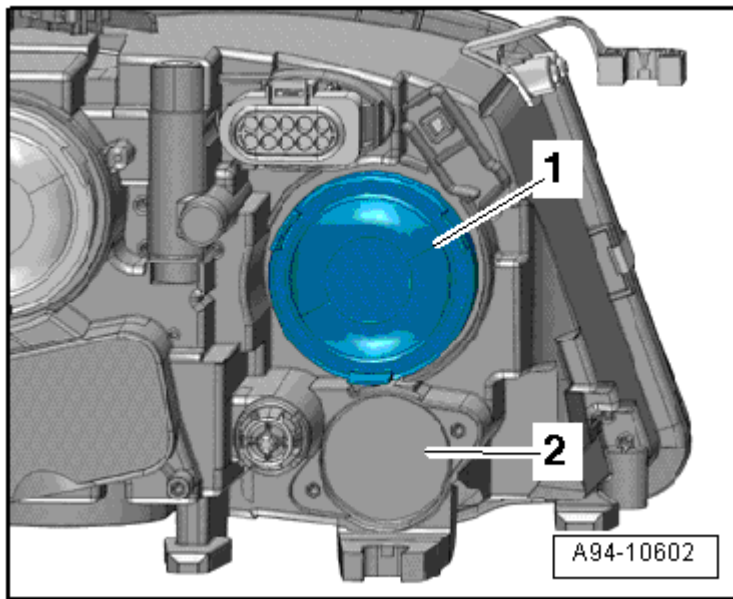
**NOTE:** To replace the front turn signal bulb, the headlamp must be cut at the location provided with a sharp box cutter.

**A cap can be ordered to seal the opening.**

**WARNING:** There is a risk of injury and damage.

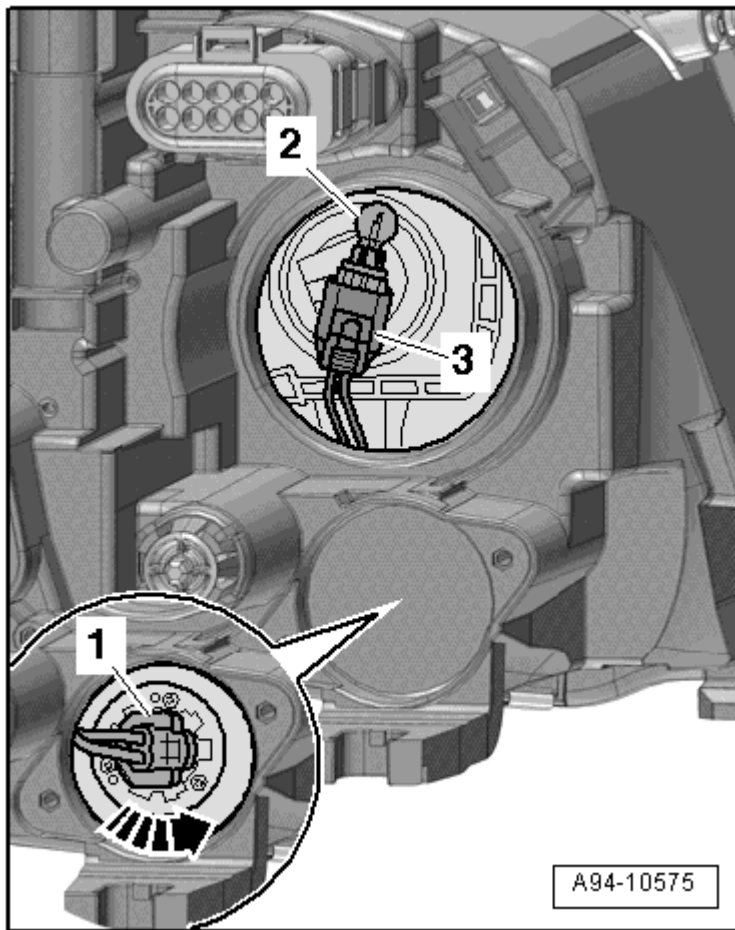
- Wear protective gloves and eyewear.
- To avoid damaged electrical wires in the headlamp, do not cut too deep.

-- Cut the cover -2- out of the headlamp housing with a sharp box cutter.



**Fig. 54: Removing High Beam Bulb Cover**  
Courtesy of AUDI OF AMERICA, LLC

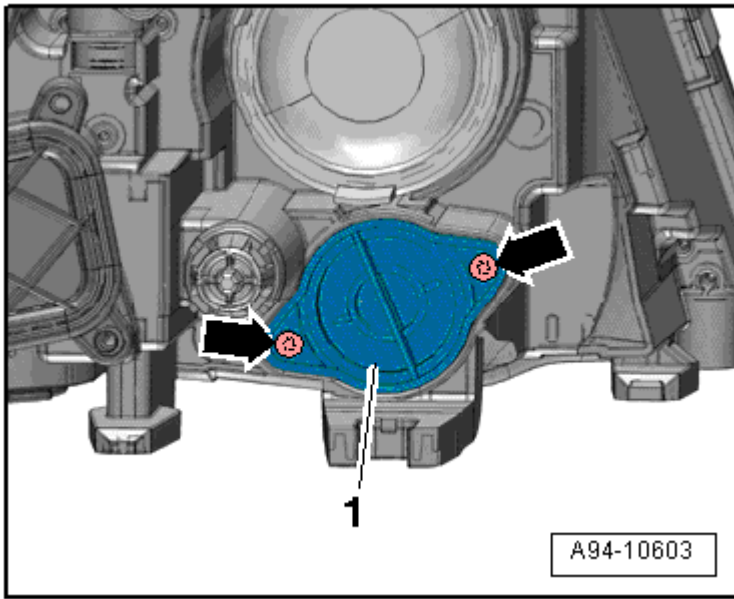
- Remove the high beam bulb cover -1- from the headlamp.
- Turn the socket -1- counterclockwise -arrow- and remove it from the headlamp.



**Fig. 55: Turn Socket Counterclockwise**  
Courtesy of AUDI OF AMERICA, LLC

- Slide the turn signal socket -2- up toward the opening for the high beam.
- Disconnect the electrical connector -3- and remove the bulb.

### Installing



**Fig. 56: Install In Reverse Order Of Removal**  
Courtesy of AUDI OF AMERICA, LLC

- Tightening specification, refer to **HALOGEN HEADLAMP OVERVIEW, THROUGH MY 2012.**

Install in reverse order of removal, observing the following:

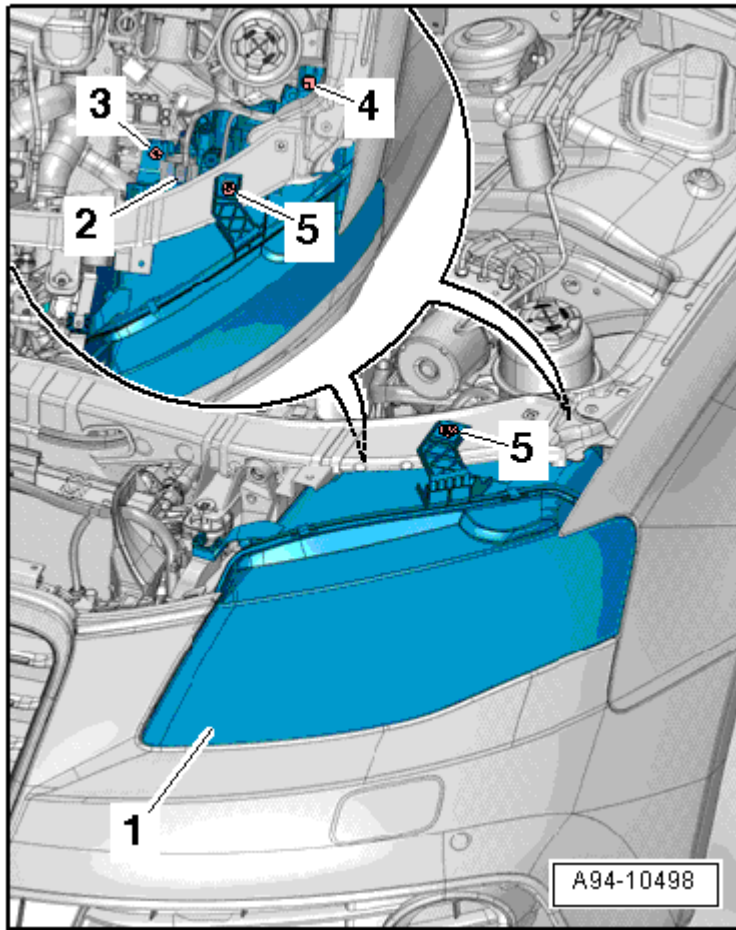
- Insert the new bulb in the socket, taking care not to touch the glass bulb with bare hands.
- Close the opening in the headlamp with the cap -1- from the repair kit.
- Tighten the bolts -arrows-.
- Install the headlamp. Refer to **HEADLAMP.**

#### HEADLAMP

Observe the notes on contact corrosion. Refer to **CONTACT CORROSION.**

**NOTE:** Headlamps must be adjusted after performing measures that could influence headlamp adjustment. Refer to **HEADLAMPS AND FOG LAMPS, CHECKING AND ADJUSTING.**

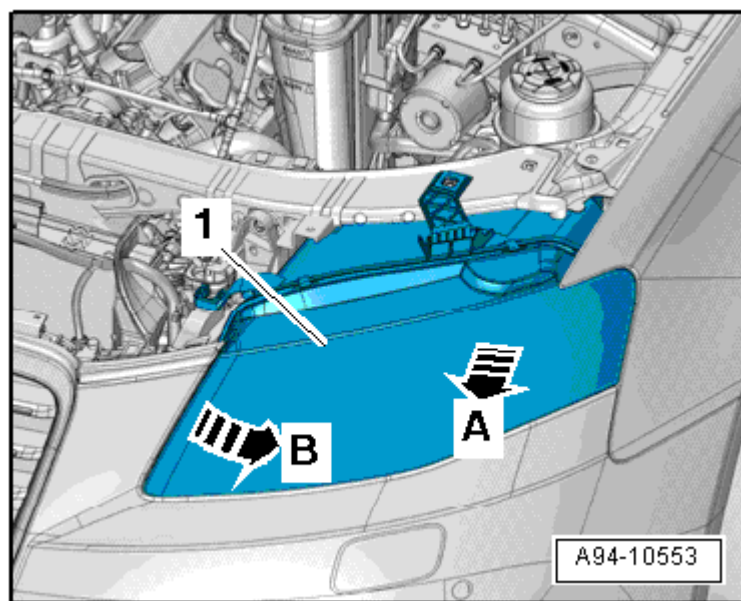
#### Removing



**Fig. 57: Tightening Screws**

Courtesy of AUDI OF AMERICA, LLC

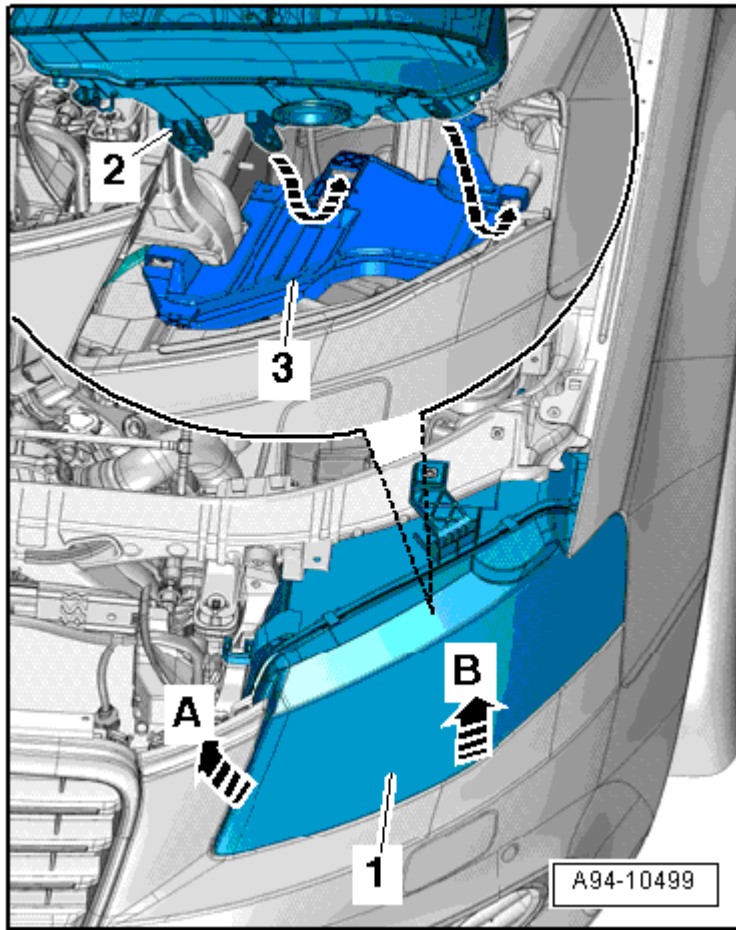
- Turn off the ignition and remove the key.
- Turn the headlamp switch to the "0" position.
- Remove the lock carrier cover. Refer to **Removal and Installation** .
- Disconnect the electrical connector -2-.
- Remove the bolts -3, 4 and 5- for the headlamp -1-.
- Pull the headlamp -1- forward -arrow A- until the headlamp guides can be guided out of the mounts on the bracket slide.



**Fig. 58: Pulling Headlamp Forward Until Headlamp Guides Can Be Guided Out**  
Courtesy of AUDI OF AMERICA, LLC

-- Tilt the headlamp toward the fender side -arrow B- and remove it from the bracket slide.

### Installing

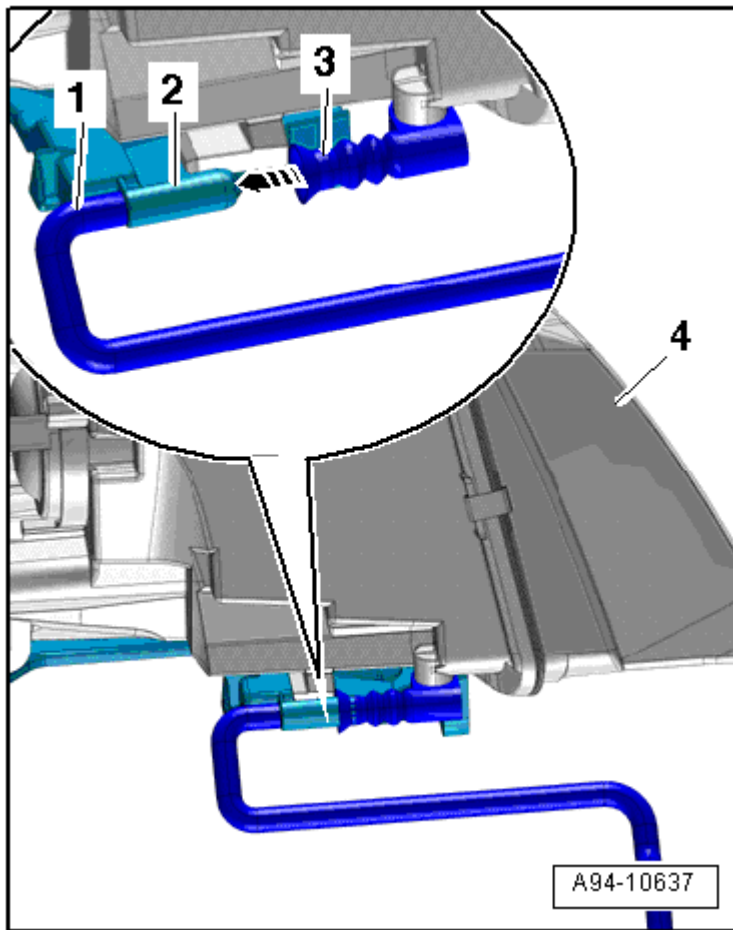


**Fig. 59: Tilting Headlamp Toward Fender Side To Remove It From Mounting Slide**  
 Courtesy of AUDI OF AMERICA, LLC

- Tightening specification, refer to **HALOGEN HEADLAMP OVERVIEW, THROUGH MY 2012**.

Install in reverse order of removal, observing the following:

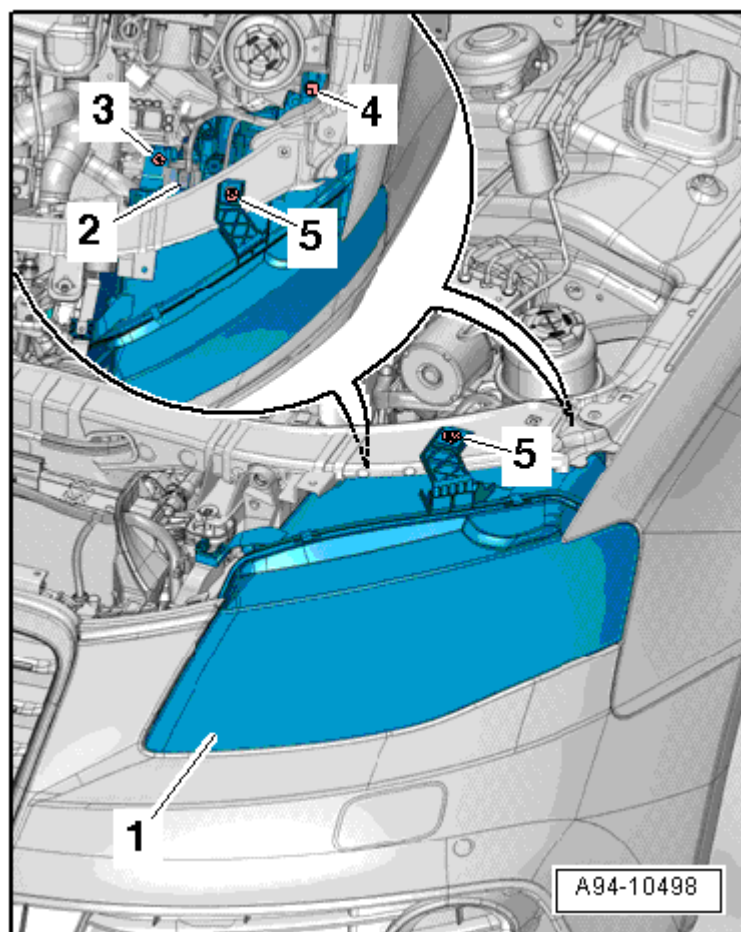
- Position the outer edge of the headlamp -1- inside behind the fender.
- Tilt the headlamp inward -arrow A-. The guide rails -2- on the headlamp must engage in the guides on the bracket -3- -arrows-.
- Slide the headlamp back into the headlamp bracket as far as the stop -arrow B-.
- The headlamp must slide into the bracket gently without using force.
- When sliding the headlamp -4- in, make sure the headlamp ventilation -3- slides evenly into the mount -2- for the ventilation hose -1- -arrow-.



**Fig. 60: Identifying Headlamp -4-, Headlamp Ventilation -3-, Mount -2- And Ventilation Hose -1- - Arrow-**

Courtesy of AUDI OF AMERICA, LLC

-- Tighten the screws -3, 4 and 5--.

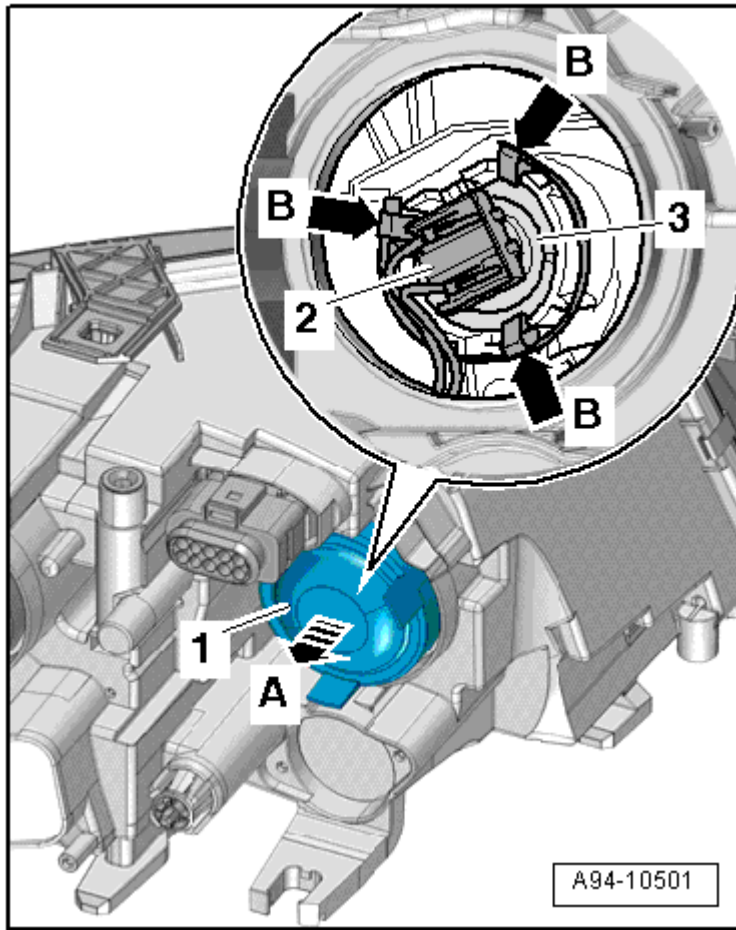


**Fig. 61: Tightening Screws**

Courtesy of AUDI OF AMERICA, LLC

HIGH BEAM BULBS -M30- / -M32-

Removing



**Fig. 62: High Beam Bulbs -M30- / -M32-**  
Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the ignition key.
- Turn the light switch to the "0" position.
- Remove the headlamp. Refer to **HEADLAMP**.
- Remove the high beam bulb cap -1- from the headlamp -arrow A-.
- Remove the bulb -3- from the spring clips -B arrows-.
- Disconnect the electrical connector -2- from the bulb.

### Installing

Install in reverse order of removal, observing the following:

- Insert the new bulb into the housing without touching the bulb with bare hands.

- Position the bulb on the lower spring clip.
- Press the bulb into the headlamp past the upper spring clips.
- Connect the connector and close the housing cap.
- Install the headlamp. Refer to **HEADLAMP**.

**LEFT HEADLAMP BEAM ADJUSTMENT MOTOR -V48-****Special tools and workshop equipment required**

- Protective Gloves
- Protective Eyewear
- Box Cutter

**Removing**

- Remove the headlamp. Refer to **HEADLAMP**.

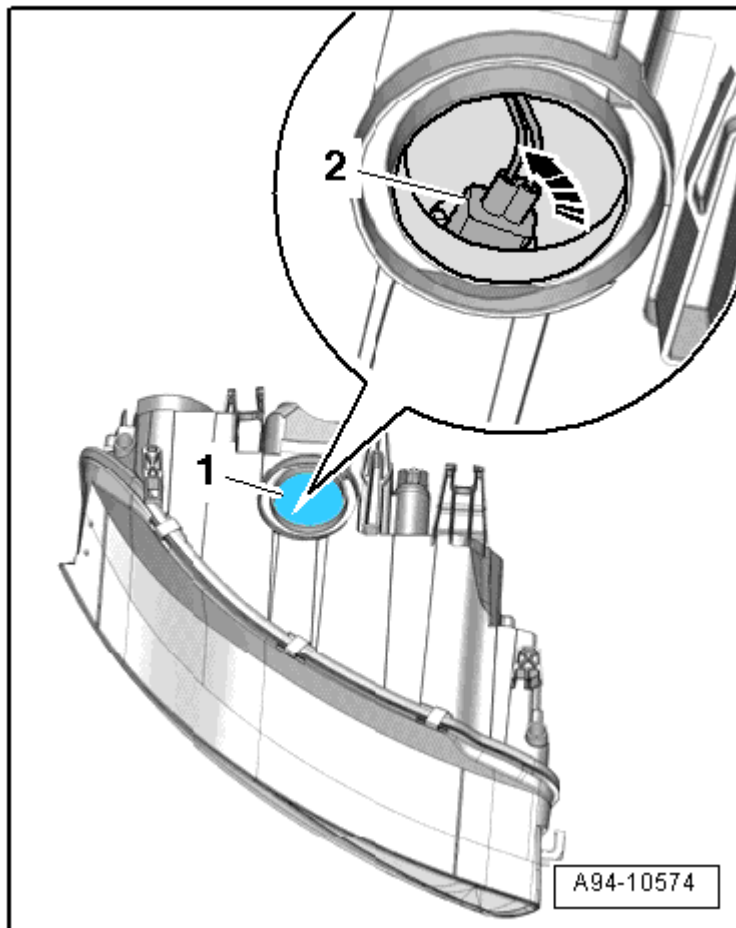
**NOTE:** To replace the left headlamp beam adjustment motor, the headlamp must be cut open at the designated location with a sharp box cutter.

**A cap can be ordered to seal the opening.**

**WARNING:** There is a risk of injury and damage.

- Wear protective gloves and eyewear.
- To avoid damaged electrical wires in the headlamp, do not cut too deep.

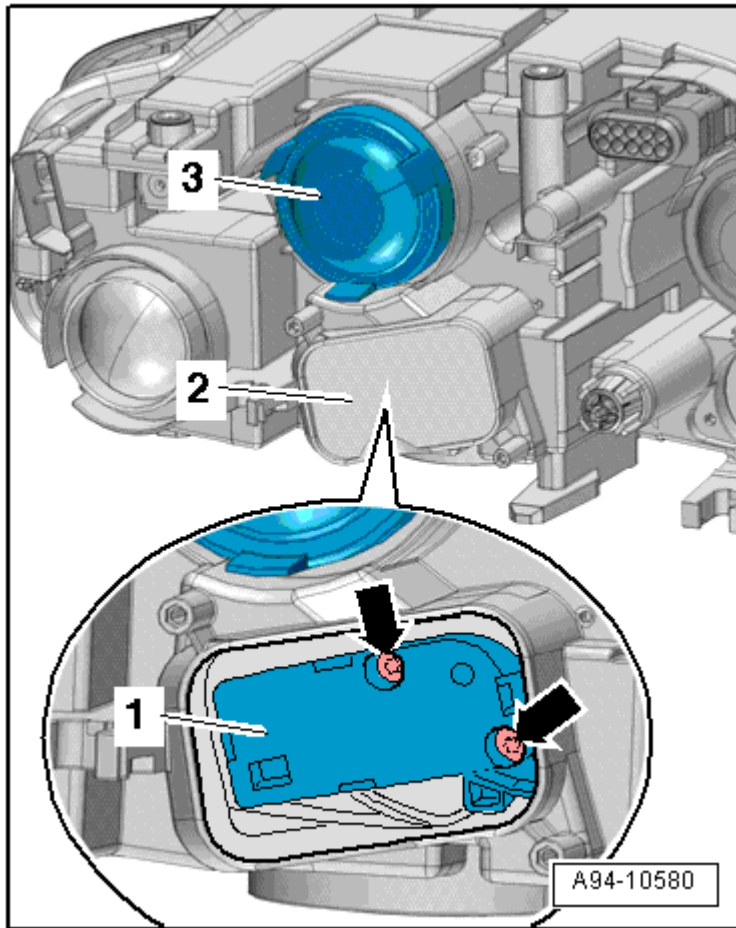
- Cut the cover -1- out of the headlamp with a sharp box cutter.



**Fig. 63: Cut Cover Out Of Headlamp With A Sharp Box Cutter**  
 Courtesy of AUDI OF AMERICA, LLC

**NOTE:** Remove any shavings and grit on the blind cover from the headlamp.

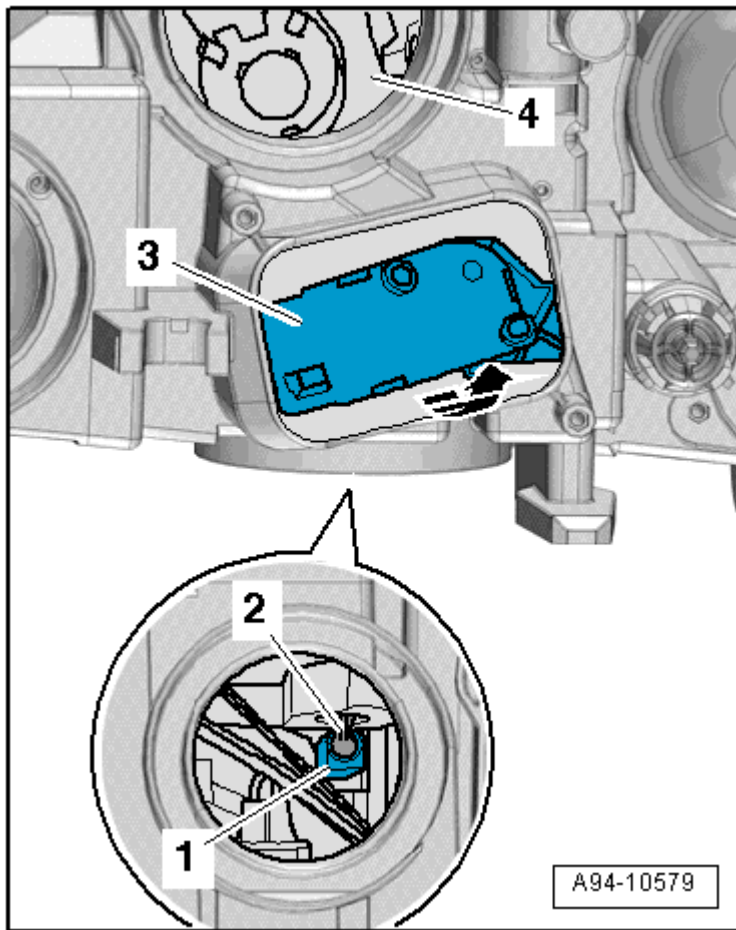
-- Cut the cover -2- out of the headlamp with a sharp box cutter.



**Fig. 64: Cut Cover Out Of Headlamp With A Sharp Box Cutter**  
Courtesy of AUDI OF AMERICA, LLC

**NOTE:** Remove any shavings and grit on the blind cover from the headlamp.

- Remove the low beam bulb cover -3- from the headlamp.
- Remove the bolts -arrows- on the headlamp range control positioning motor -1-.
- Pull the reflector -4- back and tilt the headlamp range control positioning motor -3- upward -arrow- to disengage the ball head -2- on the adjusting axis from the ball head mount -1-.



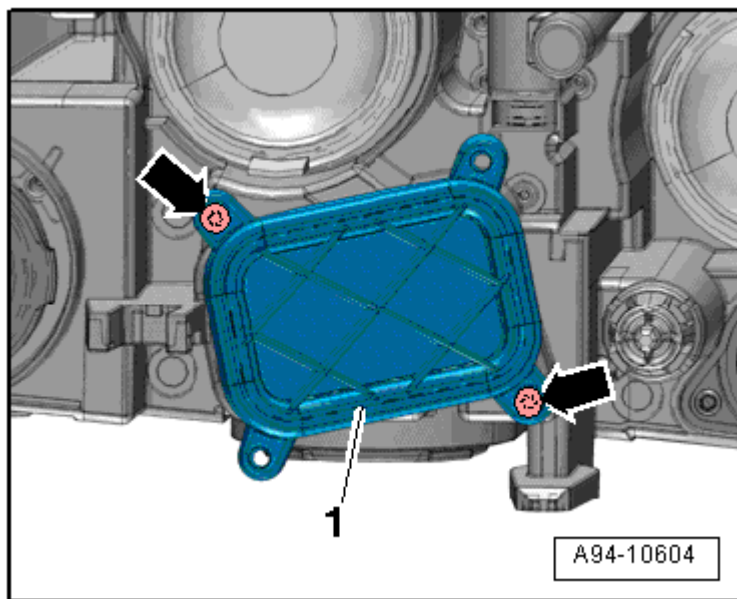
**Fig. 65: Pull Reflector Back And Tilt Headlamp Range Control Positioning Motor**  
Courtesy of AUDI OF AMERICA, LLC

### Installing

- Tightening specification, refer to **HALOGEN HEADLAMP OVERVIEW, THROUGH MY 2012.**

Install in reverse order of removal, observing the following:

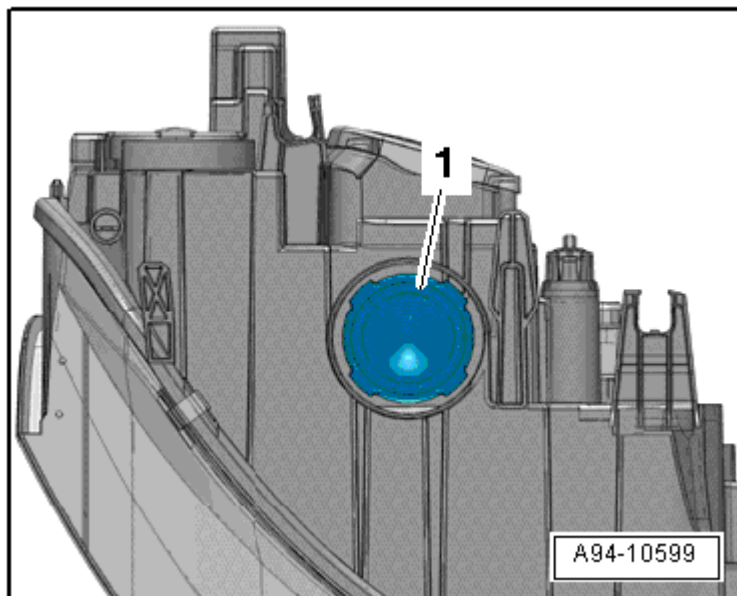
- Connect the electrical connector when guiding in.
- Pull the reflector back and engage the ball head on the adjusting axis in the reflector ball head mount.
- Close the opening in the headlamp with the cap -1- from the repair kit.



**Fig. 66: Close Opening In Headlamp With Cap**  
Courtesy of AUDI OF AMERICA, LLC

-- Tighten the bolts -arrows-.

-- Close the opening in the headlamp with the cap -1- from the repair kit.



**Fig. 67: Close the opening in the headlamp with the cap**  
Courtesy of AUDI OF AMERICA, LLC

-- Install the headlamp. Refer to **HEADLAMP**.

**LEFT AND RIGHT SIDE MARKER LAMP BULBS -M1- / -M3-**

**Special tools and workshop equipment required**

- Protective Gloves
- Protective Eyewear
- Box Cutter

**Removing**

-- Remove the headlamp. Refer to **HEADLAMP**.

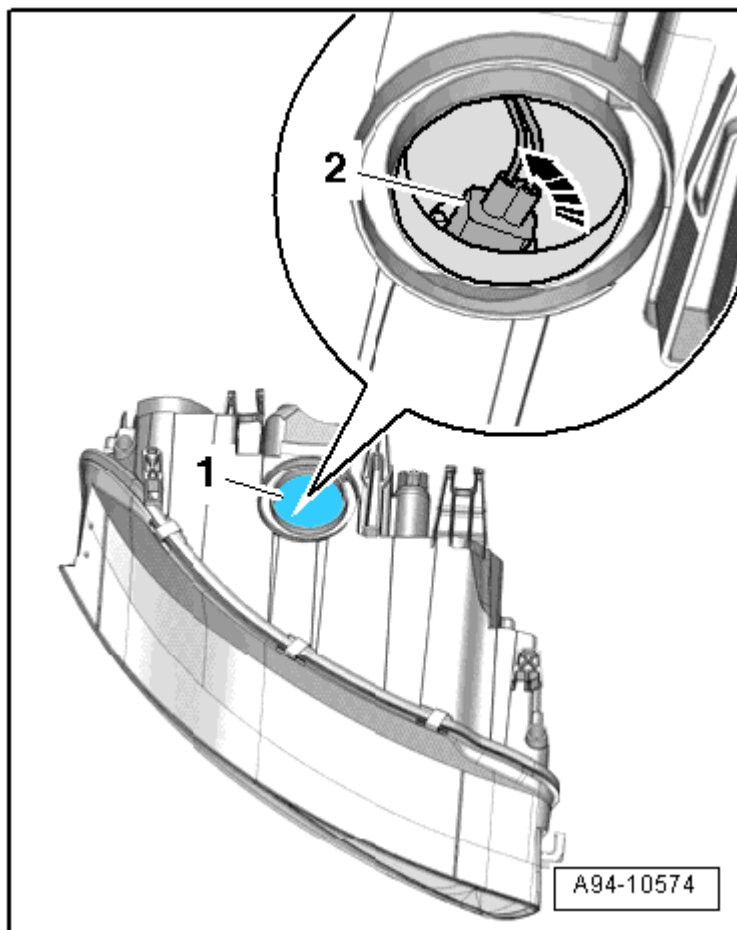
**NOTE:** To replace the daytime running lamp bulb, the headlamp must be cut at the location provided with a sharp box cutter.

**A cover can be ordered to seal the opening.**

**WARNING:** There is a risk of injury and damage.

- Wear protective gloves and eyewear.
- To avoid damaged electrical wires in the headlamp, do not cut too deep.

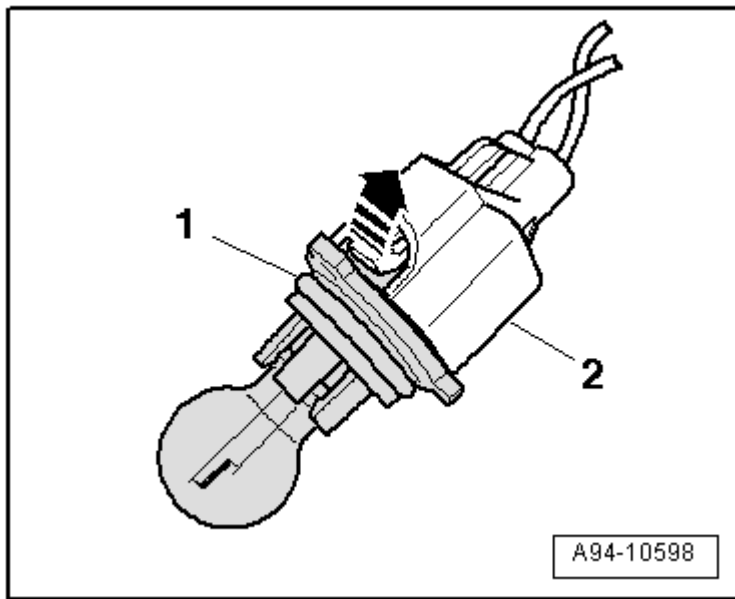
-- Cut the cover -1- out of the headlamp with a sharp box cutter.



**Fig. 68: Cut Cover Out Of Headlamp With A Sharp Box Cutter**  
Courtesy of AUDI OF AMERICA, LLC

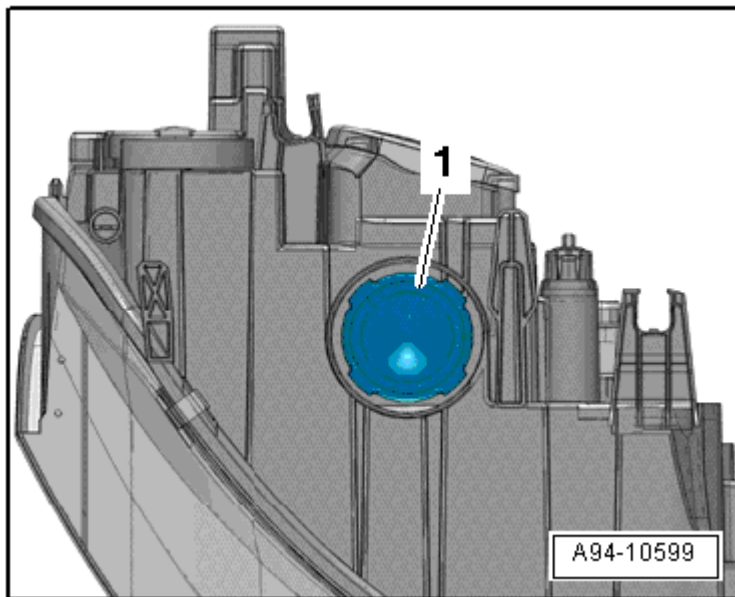
**NOTE:** Remove any shavings and grit on the blind cover from the headlamp.

- Turn the socket -2- counterclockwise -arrow- and remove it from the headlamp.
- Release the retaining spring -arrow- and disconnect the electrical connector -2- at the socket -1-.



**Fig. 69: Disconnect Electrical Connector**  
Courtesy of AUDI OF AMERICA, LLC

### Installing



**Fig. 70: Install In Reverse Order Of Removal**  
Courtesy of AUDI OF AMERICA, LLC

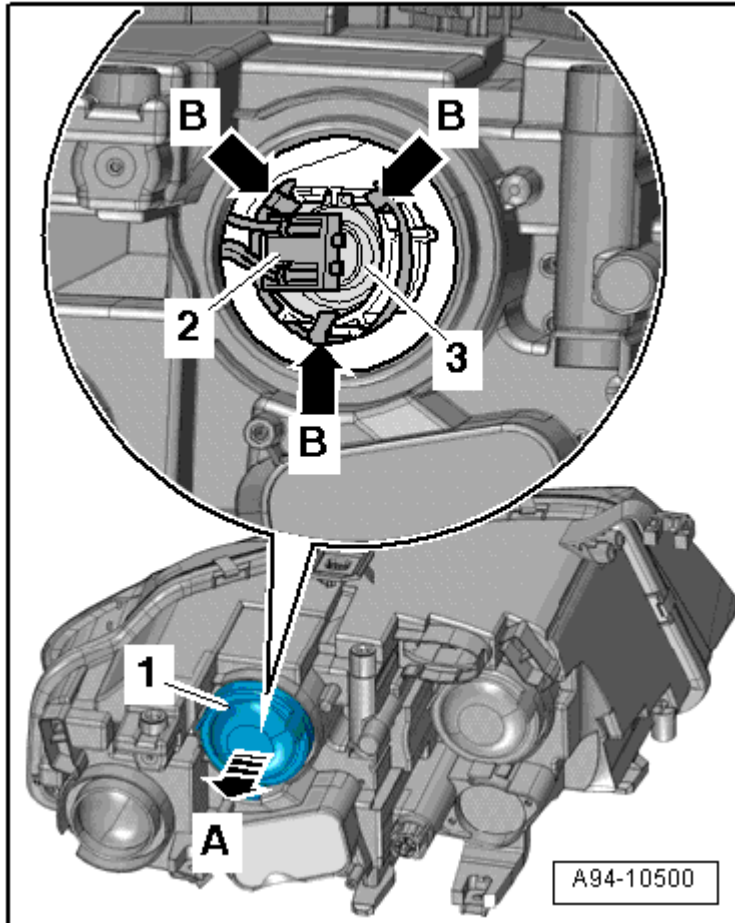
Install in reverse order of removal, observing the following:

- Insert the new bulb in the headlamp socket, taking care not to touch the glass bulb with bare hands.
- Close the opening in the headlamp with the cap -1- from the repair kit.

-- Install the headlamp. Refer to **HEADLAMP**.

**LOW BEAM BULB -M29- / -M31-**

**Removing**



**Fig. 71: Low Beam Bulb -M29- / -M31-**  
Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the ignition key.
- Turn the light switch to "0" position.
- Remove the headlamp. Refer to **HEADLAMP**.
- Remove the low beam bulb cap -1- from the headlamp -arrow A-.
- Remove the bulb -3- from the spring clips -B arrows-.
- Disconnect the electrical connector -2- from the bulb.

## Installing

Install in reverse order of removal, observing the following:

- Insert the new bulb into the headlamp without touching the bulb with bare hands.
- Press the bulb into the headlamp past the spring clips.
- Connect the connector and close the housing cap.
- Install the headlamp. Refer to **HEADLAMP**.

### RIGHT HEADLAMP BEAM ADJUSTMENT MOTOR -V49-

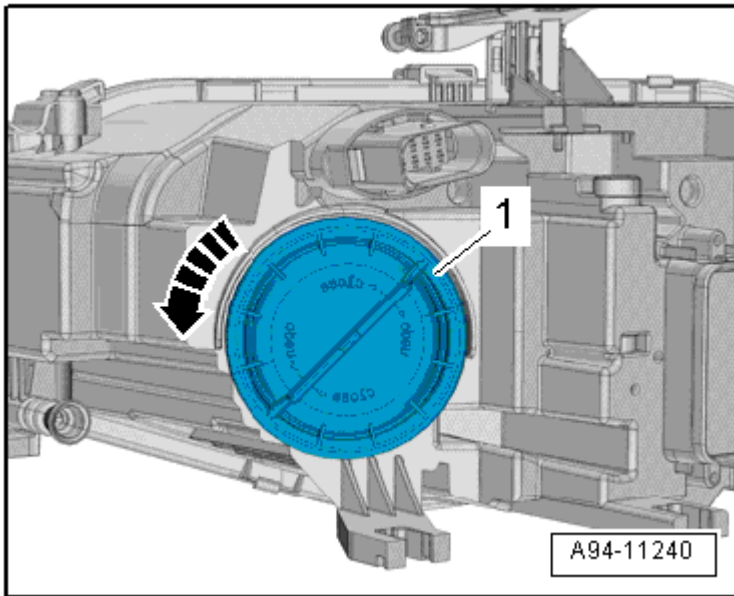
If the right headlamp beam adjustment motor on the right headlamp is faulty, replace the entire headlamp.

- Replace the headlamp. Refer to **HEADLAMP**.

### HALOGEN HEADLAMP, FROM MY 2013

### FRONT TURN SIGNAL LAMP BULBS -M5- / -M7-

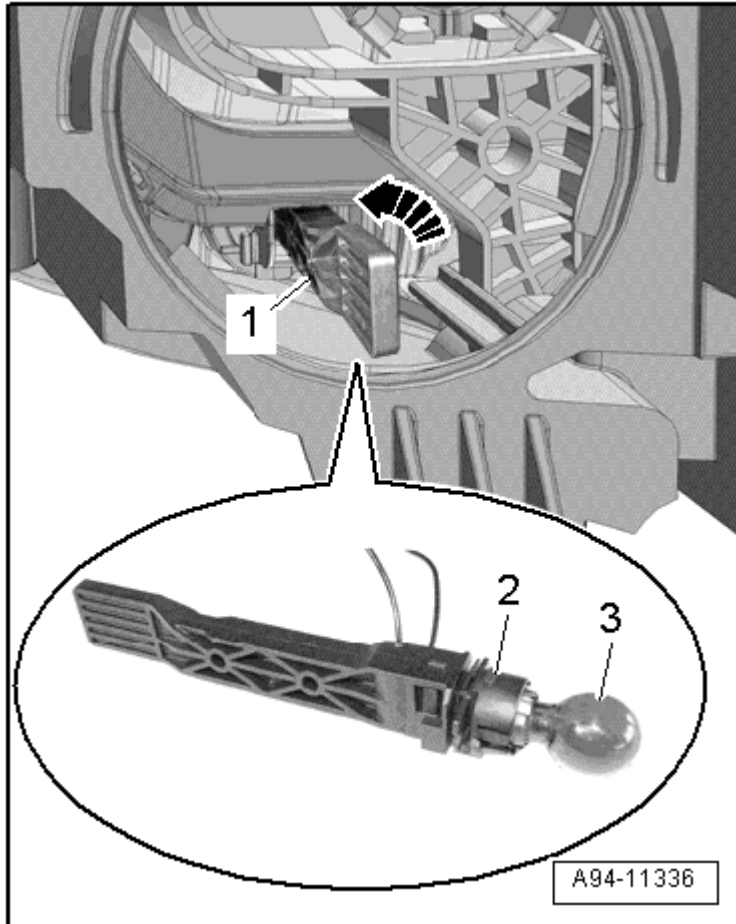
## Removing



**Fig. 72: Front Turn Signal Lamp Bulbs -M5- / -M7-**  
Courtesy of AUDI OF AMERICA, LLC

- Right side: remove the air filter housing. Refer to **[For engine(s) CALA] Removal and Installation** or refer to **[For engine(s) CAEB] Removal and Installation** or refer to **[For engine(s) CCBA] Removal and Installation** .

- Turn the housing cover -1- counter-clockwise -arrow- and remove it from the headlamp housing.
- Release the bulb -3- : Left side: turn clockwise; right side: turn counter-clockwise -arrow-.



**Fig. 73: Turn Housing Cover Counter-Clockwise**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the bulb from the housing.
- Pull the bulb -2- out of the bulb socket -1-.

### Installing

Install in reverse order of removal. Note the following:

- Insert new bulb in the bulb socket. Do not touch the glass bulbs with bare hands.
- Close the housing cover clockwise.
- Right side: install the air filter housing. Refer to **[For engine(s) CALA] Removal and Installation** or refer to **[For engine(s) CAEB] Removal and Installation** or refer to **[For engine(s) CCBA] Removal and**

**Installation .****FRONT SIDE MARKER LAMP BULBS -M33- / -M34-**

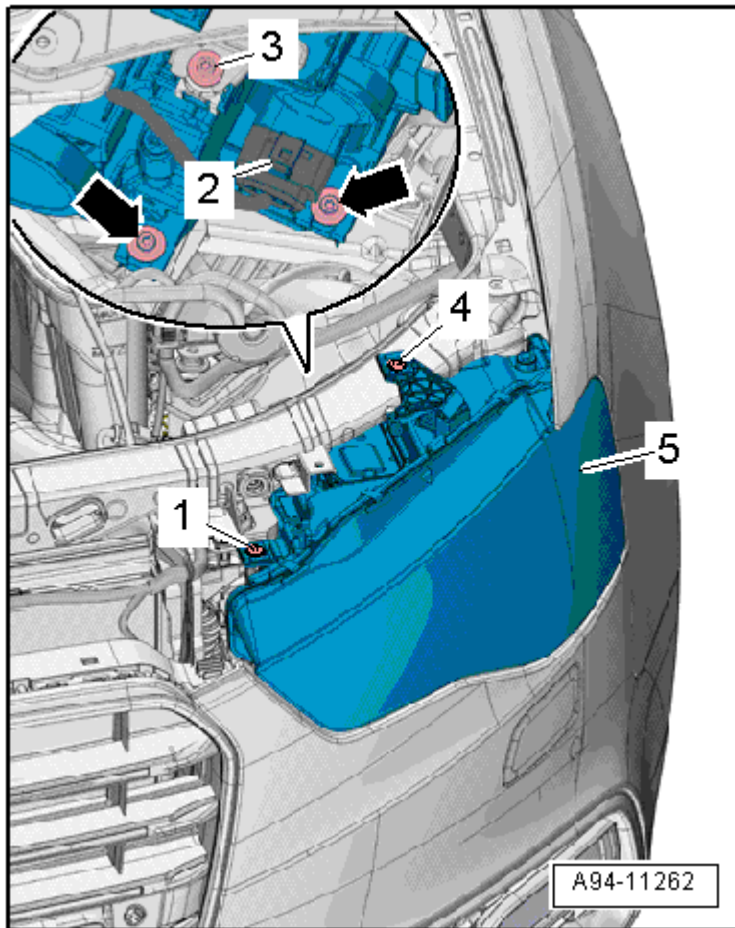
The front side marker lamp bulb is an LED and is integrated in the headlamp housing. The LED cannot be replaced. The entire headlamp must be replaced.

-- Replace the headlamp. Refer to **HEADLAMP**.

**HEADLAMP**

Note the information about contact corrosion, refer to **CONTACT CORROSION**.

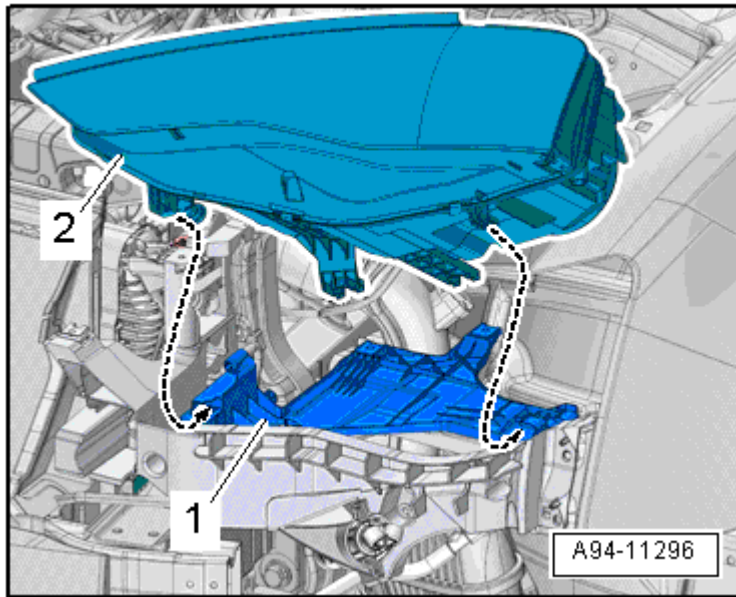
**NOTE:** Headlamps must be adjusted after performing measures that could influence headlamp adjustment. Refer to **HEADLAMPS AND FOG LAMPS, CHECKING AND ADJUSTING**.

**Removing**

**Fig. 74: Identifying Lock Carrier Cover**  
Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the key.
- Turn the headlamp switch to "0".
- Remove the lock carrier cover. Refer to **Removal and Installation** .
- Disconnect the connector -2-.
- Remove the bolts -1 and 4-.
- Remove the bolt -3- and remove the adjusting mechanism from the headlamp housing.
- Loosen the screws -arrows- a few turns from the headlamp housing.
- Remove headlamp -5- toward front from body.

### Installing



**Fig. 75: Identifying Headlamp Toward Front From Body**  
Courtesy of AUDI OF AMERICA, LLC

- Tightening specification refer to **HALOGEN HEADLAMPS OVERVIEW, FROM MY 2013.**

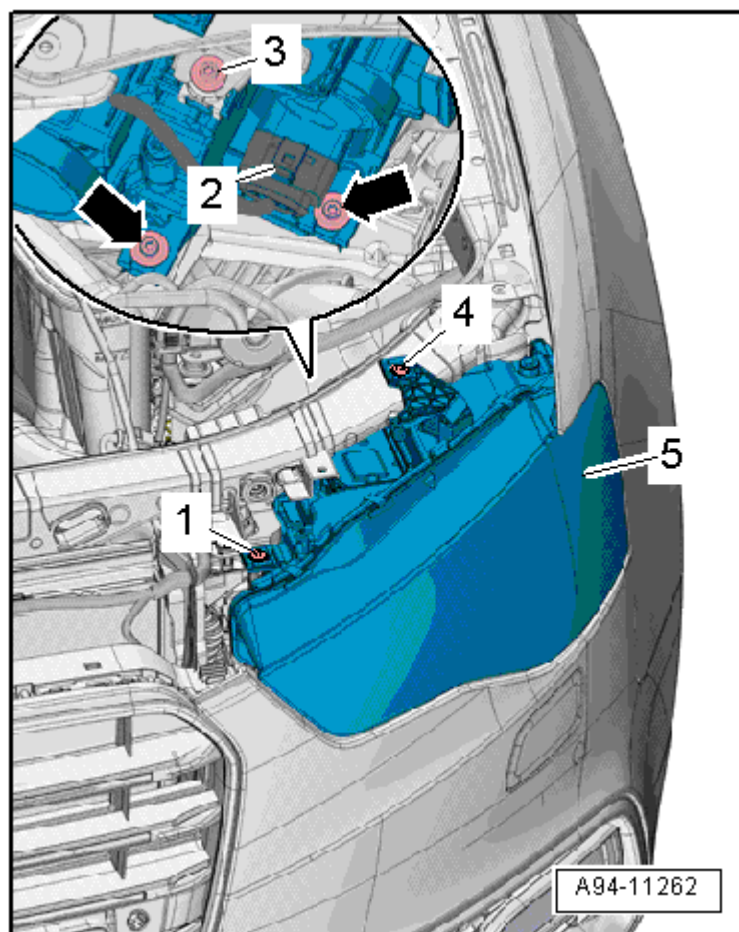
Install in reverse order of removal. Note the following:

- When inserting the headlamp -2- into the mount -1-, make sure the guide tracks on the headlamp engage in the guides on the mount -arrows-.
- Headlamp must slide gently into mount and without using force.

Diagram illustrating the connection of the water supply hose to the machine. The diagram shows the hose (1) connected to the machine's water inlet (2). A circular inset provides a detailed view of the connection, showing the hose (1) connected to the machine's water inlet (2) with a filter (3) installed. The machine's body is labeled 4.

**Courtesy of AUDI OF AMERICA, LLC**

-- Tighten the bolts -1, 3, 4- and -arrows-.

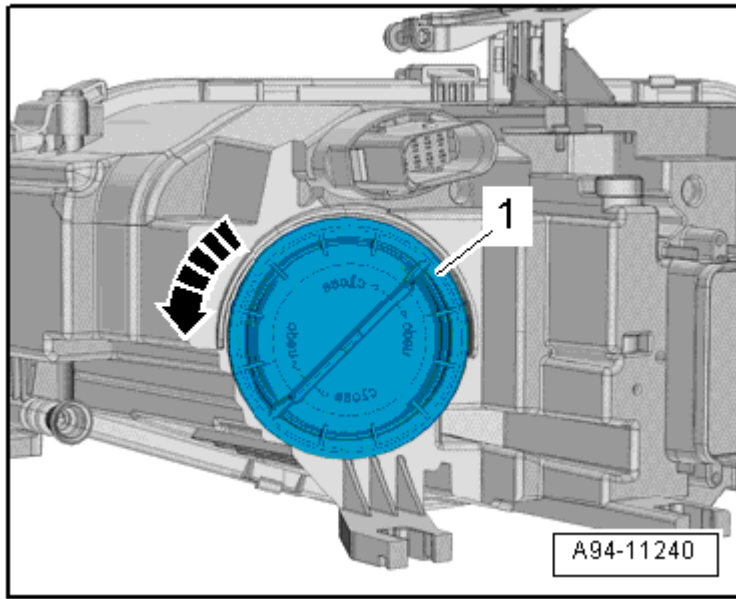


**Fig. 77: Identifying Lock Carrier Cover**  
Courtesy of AUDI OF AMERICA, LLC

-- Install the lock carrier cover. Refer to **Removal and Installation** .

HIGH BEAM HEADLAMP BULBS -M30- / -M32-

**Removing**

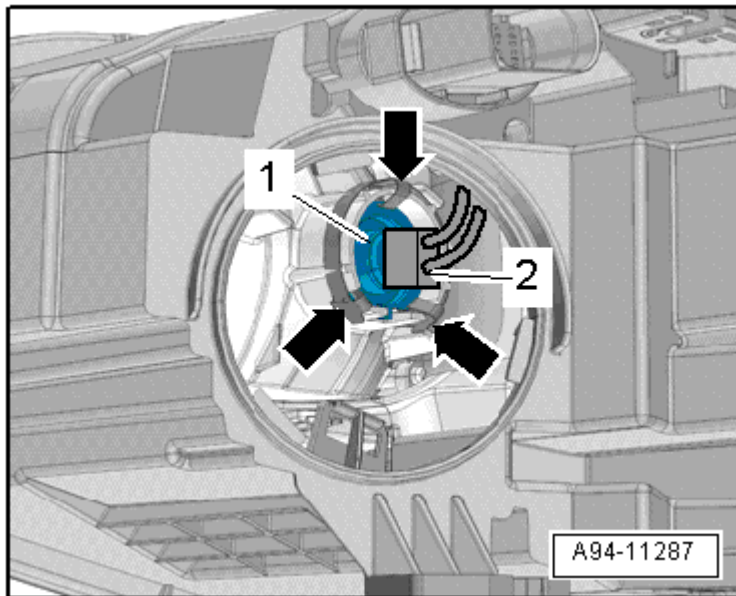


**Fig. 78: High Beam Headlamp Bulbs -M30- / -M32-**  
 Courtesy of AUDI OF AMERICA, LLC

-- Right side: remove the air filter housing. Refer to **[For engine(s) CALA] Removal and Installation** or refer to **[For engine(s) CAEB] Removal and Installation** or refer to **[For engine(s) CCBA] Removal and Installation** .

-- Turn the housing cover -1- counter-clockwise -arrow- and remove it from the headlamp housing.

-- Remove the bulb -1- from the spring clips -arrows-.



**Fig. 79: Turn Housing Cover Counter-Clockwise**  
 Courtesy of AUDI OF AMERICA, LLC

-- Disconnect the connector -2- from the bulb.

### Installing

Install in reverse order of removal. Note the following:

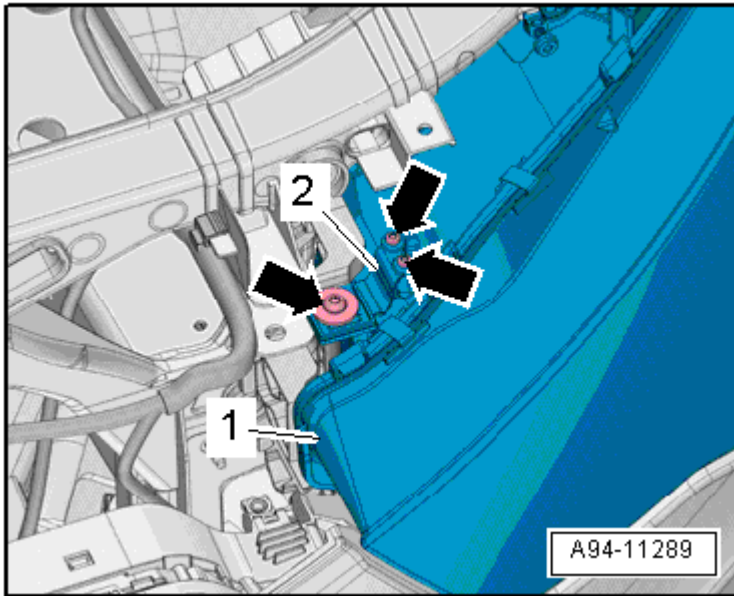
-- Push the new bulb past the resistance of the spring clips into the housing and connect the connector. This way the glass bulb is not touched with bare hands.

-- Close the housing cover clockwise.

-- Right side: install the air filter housing. Refer to **[For engine(s) CALA] Removal and Installation** or refer to **[For engine(s) CAEB] Removal and Installation** or refer to **[For engine(s) CCBA] Removal and Installation** .

### INNER HEADLAMP HOUSING BRACKET

#### Removing



**Fig. 80: Identifying Inner Headlamp Housing Bracket**  
Courtesy of AUDI OF AMERICA, LLC

-- Remove the lock carrier cover. Refer to **Removal and Installation** .

-- Remove the bolts -arrows-.

-- Remove the bracket -2- upward from the headlamp housing -1-.

#### Installing

- Tightening specification, refer to **HALOGEN HEADLAMPS OVERVIEW, FROM MY 2013**.

Install in reverse order of removal. Note the following:

- Install the lock carrier cover. Refer to **Removal and Installation** .

**LEFT AND RIGHT HEADLAMP BEAM ADJUSTMENT MOTOR -V48- / -V49-**

### **Special tools and workshop equipment required**

- Protective gloves
- Protective eyewear
- Box cutter

### **Removing**

- Remove the headlamp. Refer to **HEADLAMP**.

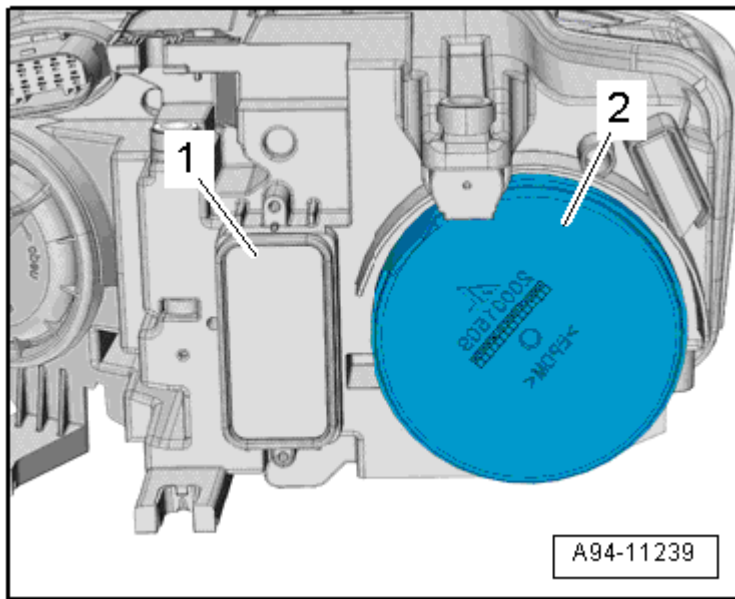
**NOTE:**        **The headlamp housing must be cut at the designated location with a sharp box cutter to replace the headlamp range control positioning motor.**

**A housing cover can be ordered to seal the assembly opening.**

**WARNING:** There is a risk of injury and damage.

- **Wear protective gloves and eyewear.**
- **To avoid damaged electrical wires in the headlamp housing, do not cut too deep.**

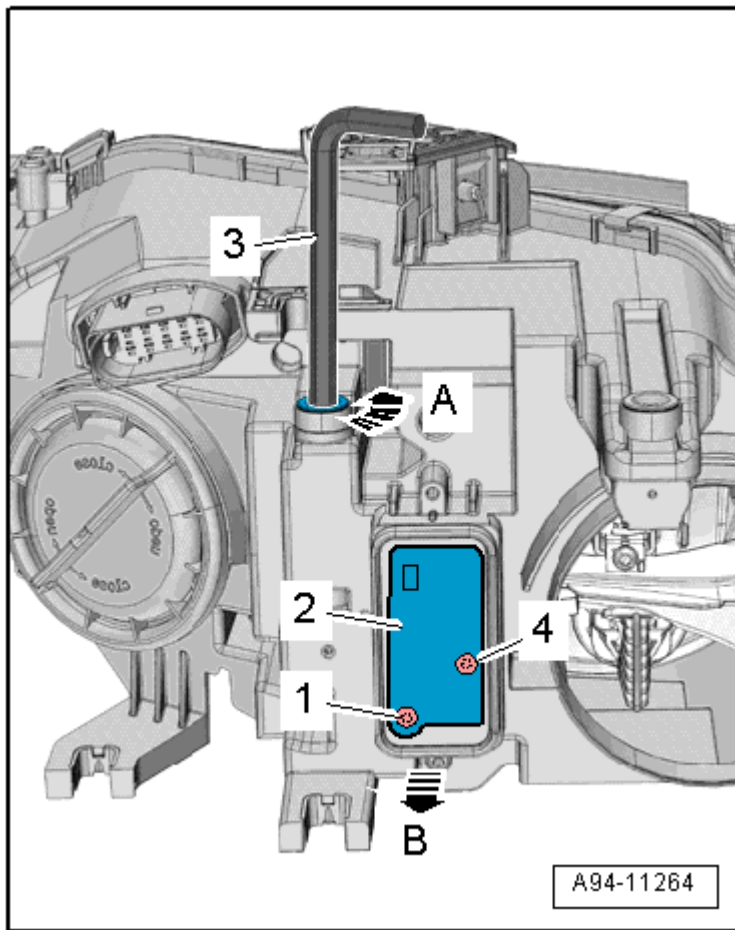
- Cut the cover -1- out of the headlamp housing with a sharp box cutter.



**Fig. 81: Cut Cover Out Of Headlamp Housing With A Sharp Box Cutter**  
Courtesy of AUDI OF AMERICA, LLC

**NOTE:** Remove any shavings and grit on the blind cover from the headlamp housing.

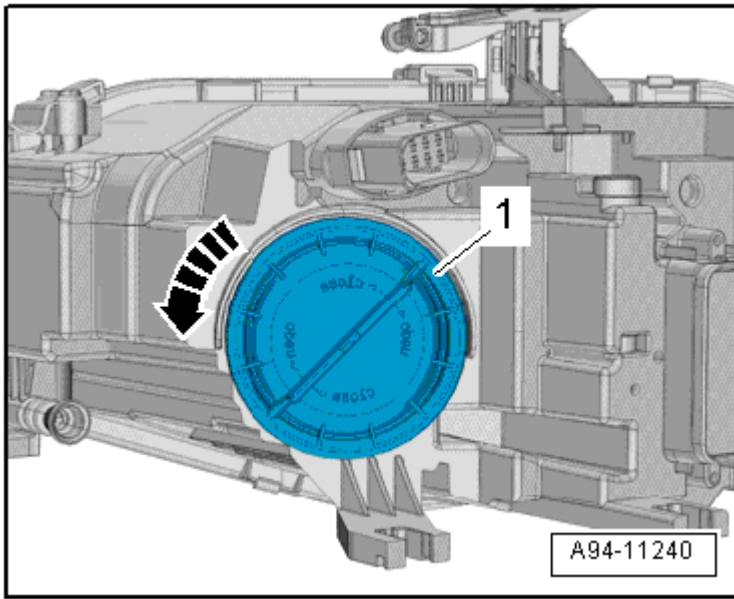
- Remove the housing cover -2- from the headlamp housing.
- Turn the height adjustment bolt all the way with the hex socket wrench -arrow A-



**Fig. 82: Remove Housing Cover From Headlamp Housing**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the bolts -1 and 4-.
- Reach through the opening in the headlamp housing and remove the adjustment motor -2- in the -direction of the arrow B- from the reflector.
- Remove the adjustment motor and disconnect the connector.

### Installing

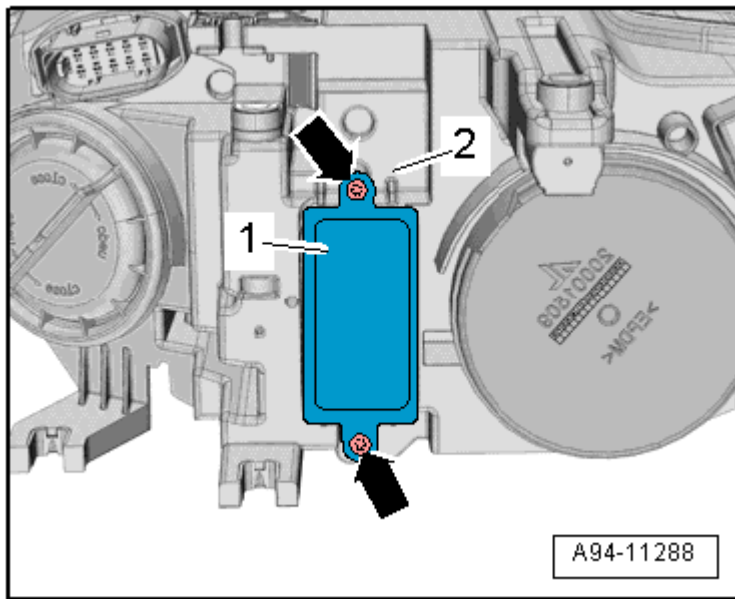


**Fig. 83: Remove Adjustment Motor And Disconnect Connector**  
Courtesy of AUDI OF AMERICA, LLC

- Tightening specification, refer to **HALOGEN HEADLAMPS OVERVIEW, FROM MY 2013.**

Install in reverse order of removal. Note the following:

- Turn the housing cover -1- counter-clockwise -arrow- and remove it from the headlamp housing.
- When connecting the connector, install the adjustment motor.
  - Counterhold the high beam/turn signal reflector through the opening when pressing the adjusting shaft ball head into the reflector ball head mount.
- Close the opening in the headlamp housing -21- with the housing cover -1- from the repair kit.

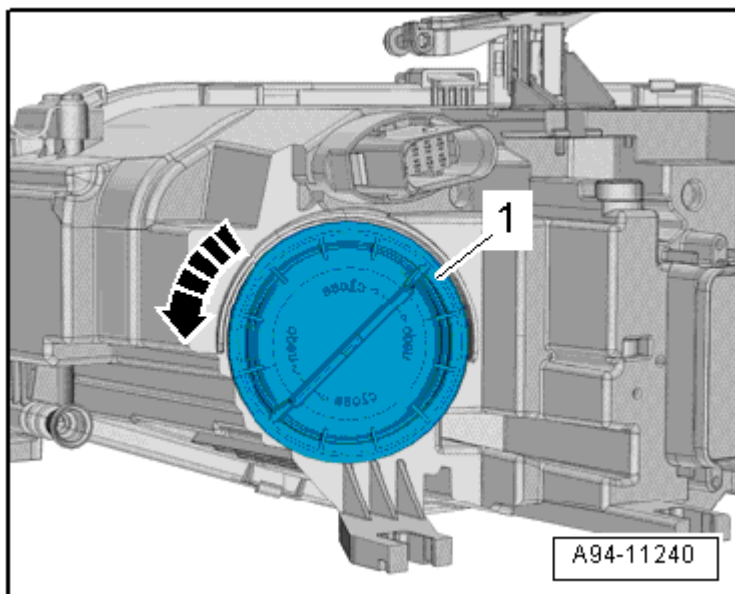


**Fig. 84: Close Opening In Headlamp Housing**  
 Courtesy of AUDI OF AMERICA, LLC

- Tighten the bolts -arrows-.
- Close the housing cover.
- Install the headlamp. Refer to **HEADLAMP**.

LEFT AND RIGHT SIDE MARKER LAMP POWER OUTPUT STAGE -J986- / -J987-

### Removing

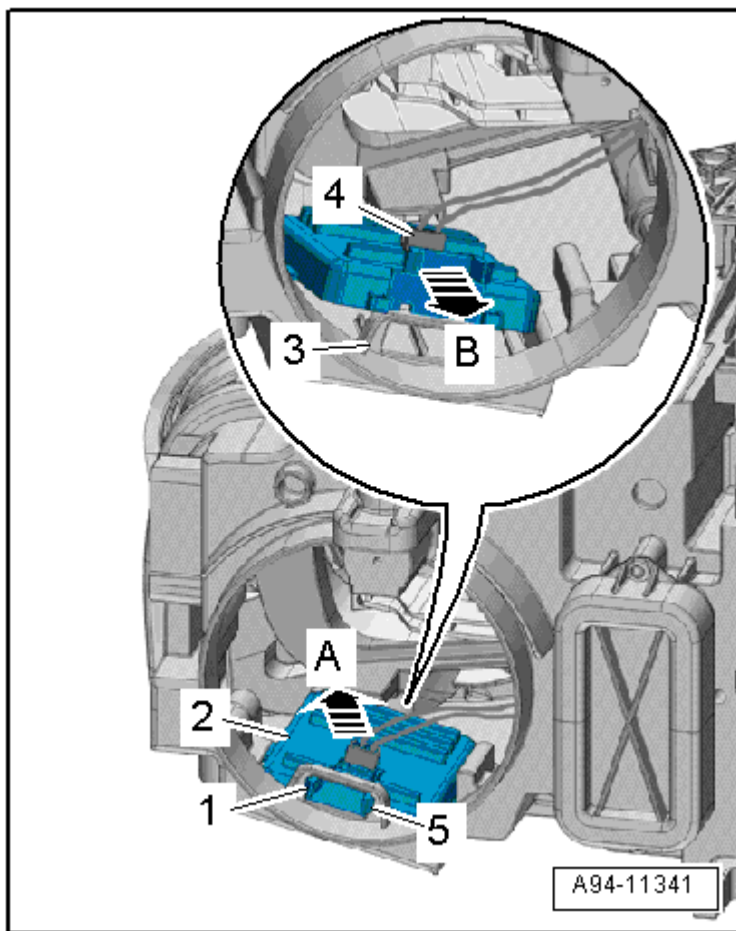


**Fig. 85: Left And Right Side Marker Lamp Power Output Stage -J986- / -J987-**  
 Courtesy of AUDI OF AMERICA, LLC

-- Right side: remove the air filter housing. Refer to [For engine(s) CALA] Removal and Installation or refer to [For engine(s) CAEB] Removal and Installation or refer to [For engine(s) CCBA] Removal and Installation .

-- Turn the housing cover -1- counter-clockwise -arrow- and remove it from the headlamp housing.

-- Open the tabs -1 and 6- and remove the control module -2- in the direction of travel forward from out of the guide rails -arrow A-.



**Fig. 86: Open Tabs And Remove Control Module**  
 Courtesy of AUDI OF AMERICA, LLC

-- Remove the control module toward the rear out from the headlamp housing -3- -arrow B-, as shown on the illustration.

-- Disconnect the connector -4-.

### Installing

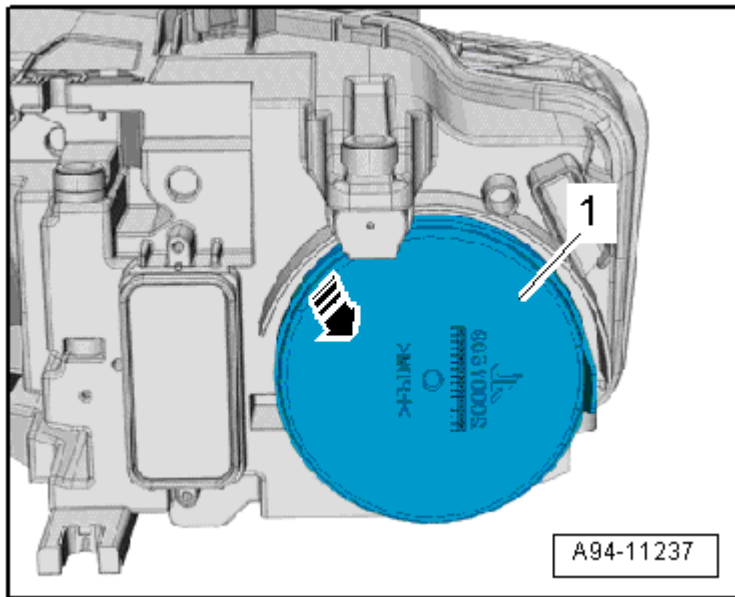
Install in reverse order of removal. Note the following:

-- Close the housing cover clockwise.

-- Right side: install the air filter housing. Refer to **[For engine(s) CALA] Removal and Installation** or refer to **[For engine(s) CAEB] Removal and Installation** or refer to **[For engine(s) CCBA] Removal and Installation** .

#### LOW BEAM HEADLAMP BULB -M29- / -M31-

##### Removing

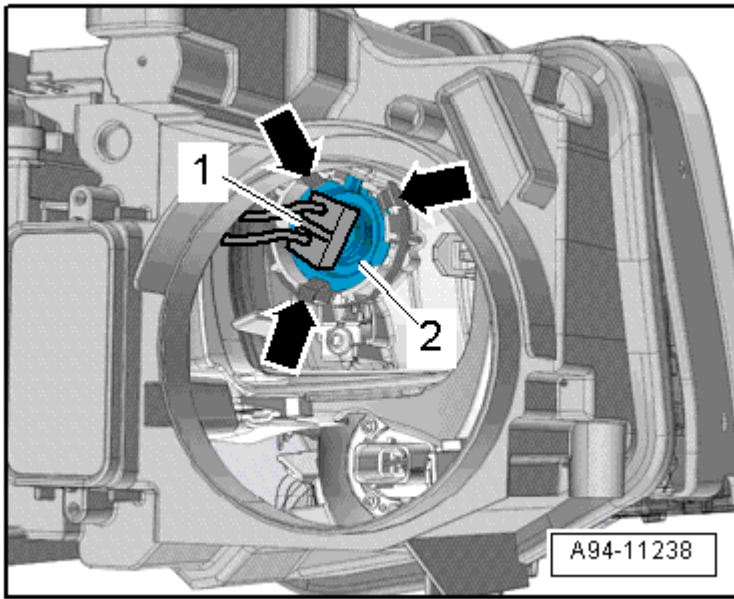


**Fig. 87: Low Beam Headlamp Bulb -M29- / -M31-**  
Courtesy of AUDI OF AMERICA, LLC

-- Right side: remove the air filter housing. Refer to **[For engine(s) CALA] Removal and Installation** or refer to **[For engine(s) CAEB] Removal and Installation** or refer to **[For engine(s) CCBA] Removal and Installation** .

-- Remove the housing cover -1- from the headlamp housing -arrow-.

-- Remove the bulb -2- from the spring clips -arrows-.



**Fig. 88: Remove Bulb From Spring Clips**  
Courtesy of AUDI OF AMERICA, LLC

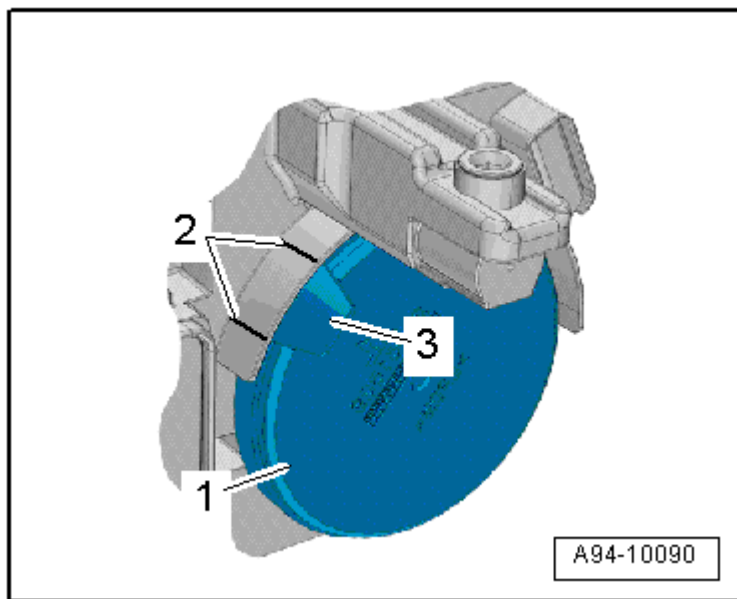
-- Disconnect the connector -1- from the bulb.

### Installing

Install in reverse order of removal. Note the following:

-- Push the new bulb past the resistance of the spring clips into the housing and connect the connector. This way the glass bulb is not touched with bare hands.

-- Close the housing cover -1-. When doing this, the strap -3- must align with the mark -2- on the headlamp housing.

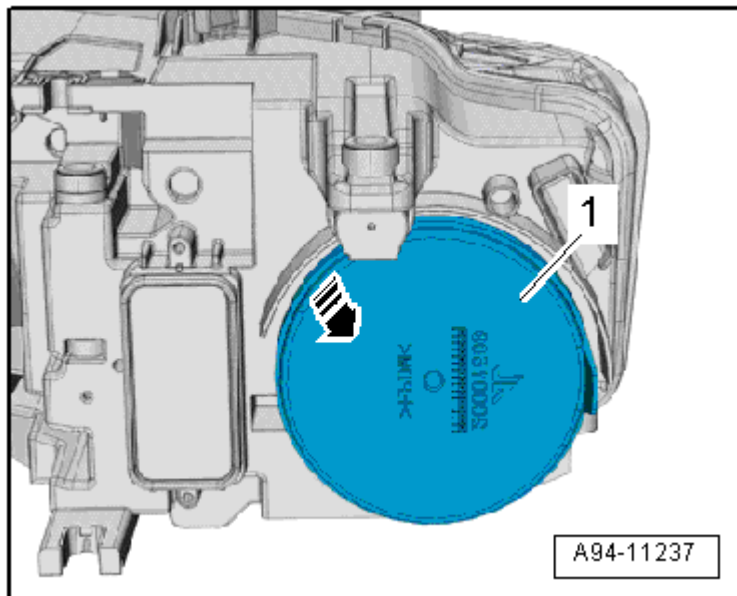


**Fig. 89: Close Housing Cover When Doing This Strap Must Align With Mark**  
 Courtesy of AUDI OF AMERICA, LLC

-- Right side: install the air filter housing. Refer to **[For engine(s) CALA] Removal and Installation** or refer to **[For engine(s) CAEB] Removal and Installation** or refer to **[For engine(s) CCBA] Removal and Installation** .

PARKING LAMP BULBS -M1- / -M3- OR DAYTIME RUNNING LAMP BULBS -L174- / -L175-

### Removing

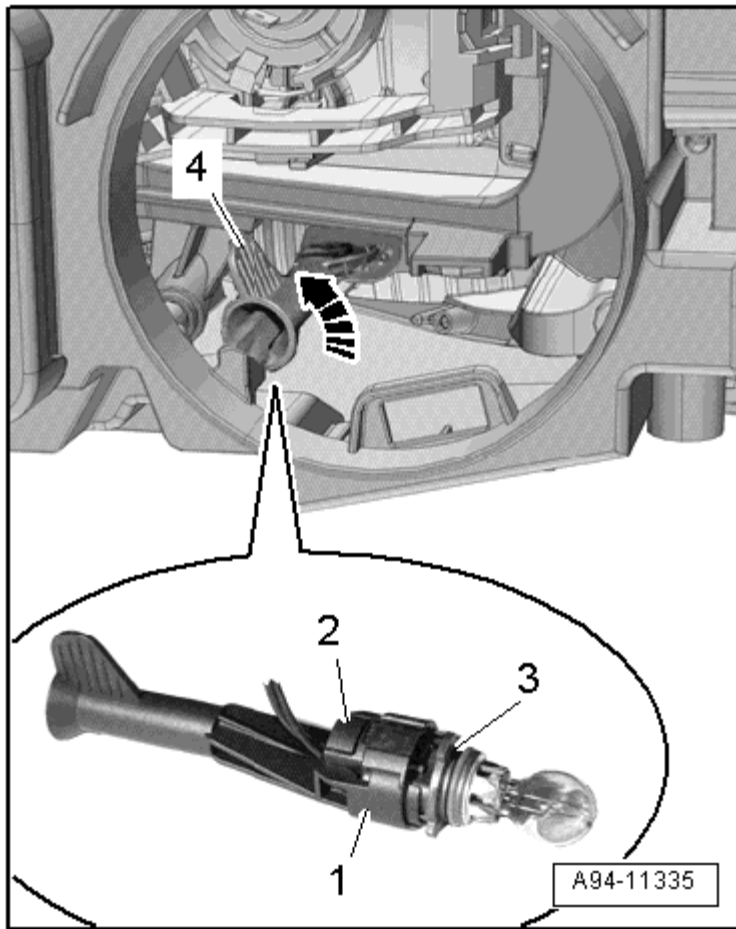


**Fig. 90: Parking Lamp Bulbs -M1- / -M3- Or Daytime Running Lamp Bulbs -L174- / -L175-**  
 Courtesy of AUDI OF AMERICA, LLC

-- Right side: remove the air filter housing. Refer to **[For engine(s) CALA] Removal and Installation** or refer to **[For engine(s) CAEB] Removal and Installation** or refer to **[For engine(s) CCBA] Removal and Installation** .

-- Remove the housing cover -1- from the headlamp housing -arrow-.

-- Turn the bulb socket -4- on the left headlamp clockwise or counter-clockwise on the right headlamp -arrow-.

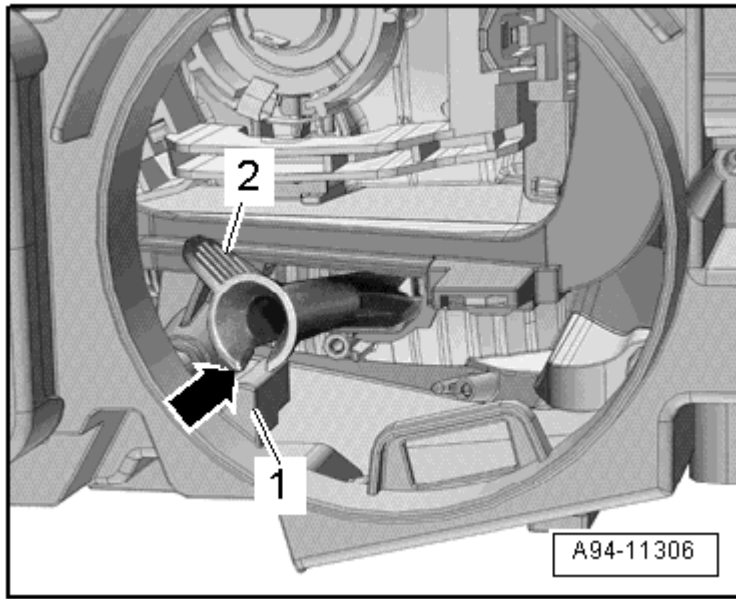


**Fig. 91: Turn Bulb Socket On Left Headlamp Clockwise**  
Courtesy of AUDI OF AMERICA, LLC

-- Disengage the bulb socket from the mount upward and then pull it out of the headlamp housing.

-- Release the clips -2- and remove the connector -1- from the bulb socket -3- with the bulb.

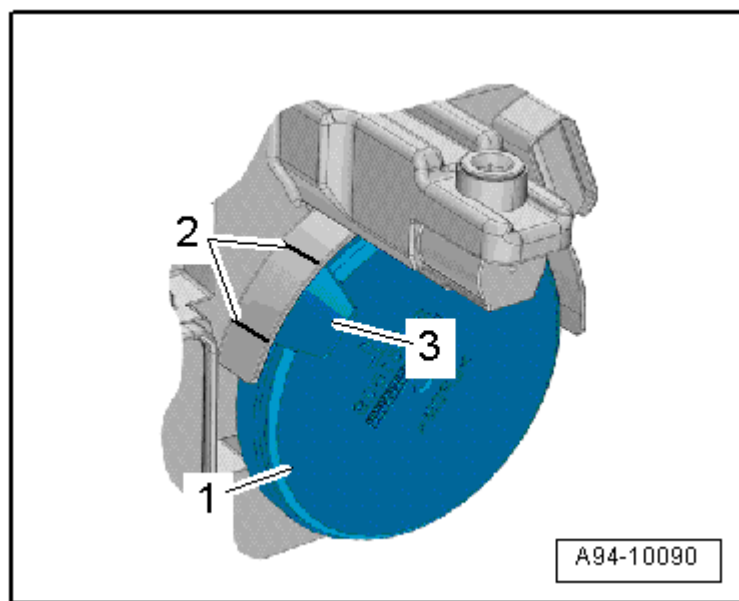
### Installing



**Fig. 92: Install In Reverse Order Of Removal**  
Courtesy of AUDI OF AMERICA, LLC

Install in reverse order of removal. Note the following:

- Connect the connector and insert the new bulb in the housing. Do not touch the glass bulb with bare hands.
- Install the bulb socket into the mount on the headlamp housing and lock it in place.
  - The opening -arrow- in the bulb socket -2- must be opposite the mount -1-.
- Close the housing cover -1-. When doing this, the strap -3- must align with the mark -2- on the headlamp housing.



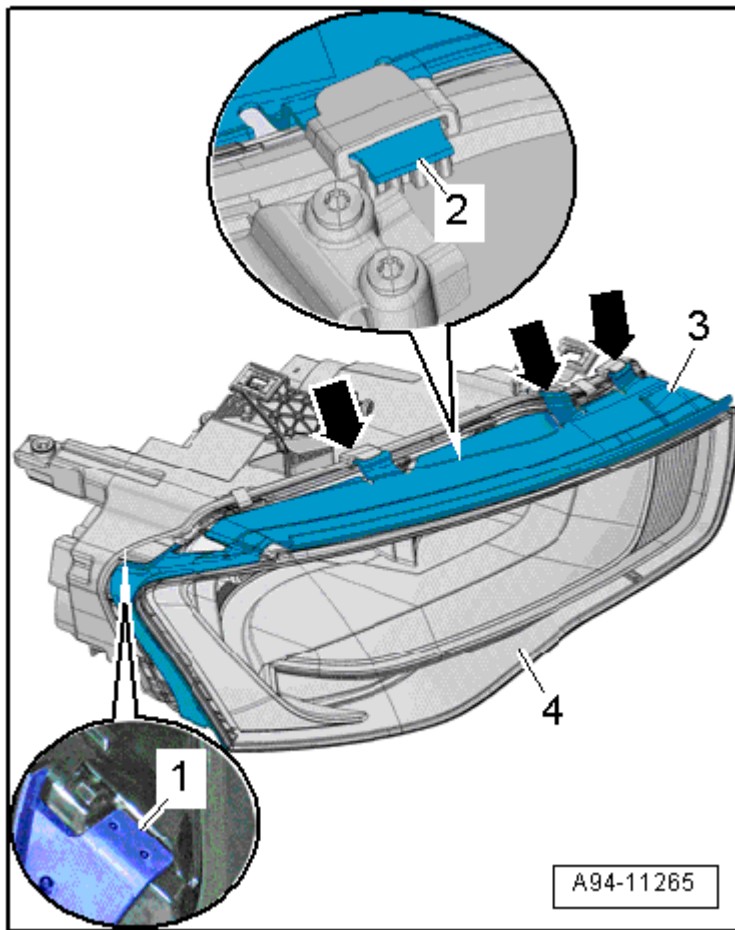
**Fig. 93: Close Housing Cover**

Courtesy of AUDI OF AMERICA, LLC

-- Right side: install the air filter housing. Refer to **[For engine(s) CALA] Removal and Installation** or refer to **[For engine(s) CAEB] Removal and Installation** or refer to **[For engine(s) CCBA] Removal and Installation** .

SEALING FRAME

**Removing**



**Fig. 94: Identifying Sealing Frame**

Courtesy of AUDI OF AMERICA, LLC

- Remove the headlamp. Refer to **HEADLAMP**.
- Unbutton the sealing frame -3- from the under side -1- and sides of the headlamp housing -4-.
- Open the tab -2- -arrows- and remove the sealing frame.

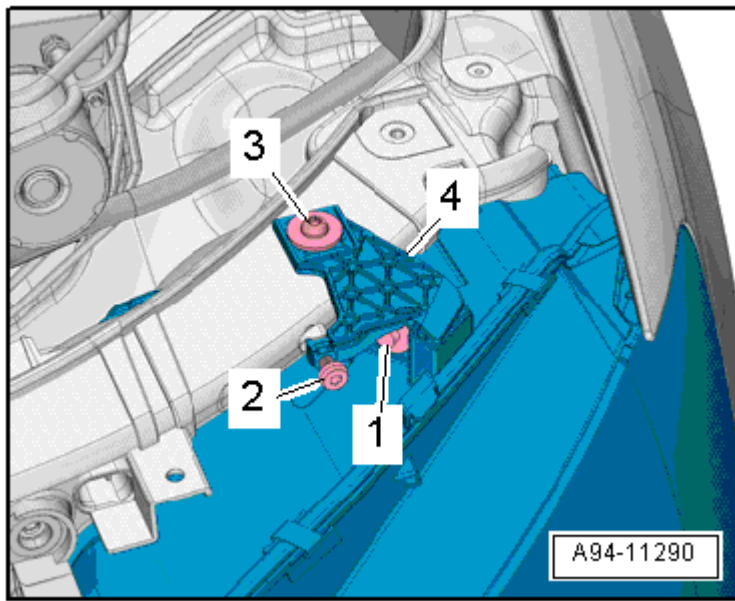
### Installing

Install in reverse order of removal. Note the following:

- Install the headlamp. Refer to **HEADLAMP**.

### UPPER HEADLAMP HOUSING BRACKET

### Removing



**Fig. 95: Identifying Upper Headlamp Housing Bracket**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the bolts -2 and 3-.
- Remove the bolt -1- as far as possible.
- Remove the bracket -4- upward from the headlamp housing.
  - The bolt and the bracket can only be removed together.

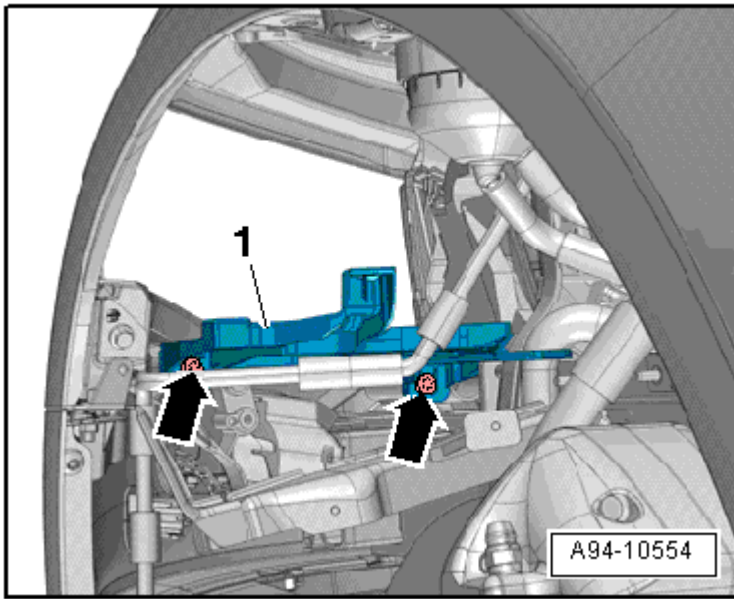
### Installing

- Tightening specification, refer to **HALOGEN HEADLAMPS OVERVIEW, FROM MY 2013.**

Install in reverse order.

### HEADLAMP HOUSING MOUNT

### Removing



**Fig. 96: Tightening Bolts While Aligning Headlamp Housing Flush To Outer Edge Of Fender**  
Courtesy of AUDI OF AMERICA, LLC

-- Remove the headlamp housing:

- Halogen Headlamps: through MY 12, refer to HEADLAMP, from MY 13, refer to HEADLAMP.
- HID Headlamps: through MY 2012, refer to HEADLAMP; from MY 2013, refer to HEADLAMP.

-- Remove the appropriate front wheel housing liner. Refer to Removal and Installation .

-- Remove the bolts -arrows-.

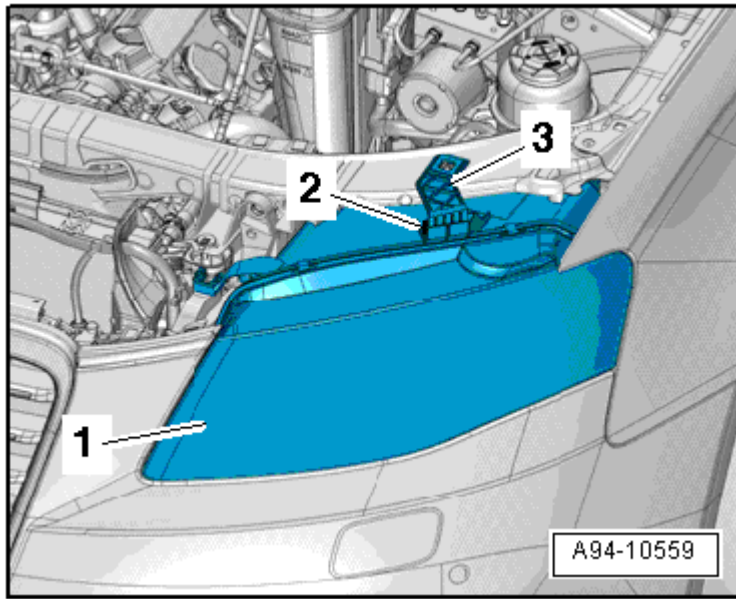
-- Remove the headlamp housing mount -1-.

### Installing

- For the correct tightening specification, refer to HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012 and HEADLAMP HOUSING MOUNT OVERVIEW, FROM MY 2013.

-- Insert the headlamp housing mount and install the bolts -arrows- and tighten by hand.

-- Install the headlamp housing:



**Fig. 97: Inserting Headlamp Housing Mount To Install Bolts**  
Courtesy of AUDI OF AMERICA, LLC

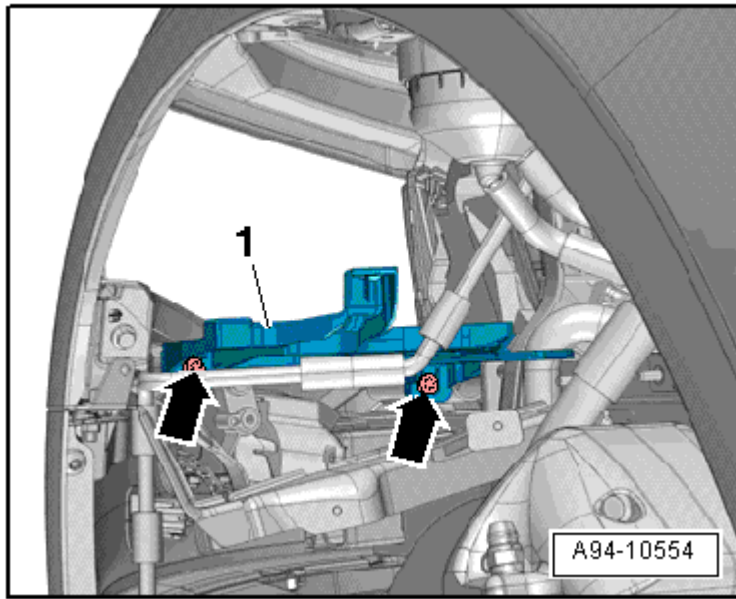
- Halogen Headlamps: through MY 12, refer to HEADLAMP, from MY 13, refer to HEADLAMP.
- HID Headlamps: through MY 12, refer to HEADLAMP; from MY 13, refer to HEADLAMP.

-- Loosen the bolt -2- for the bracket -3- several turns.

-- Align the headlamp housing -1- gap dimensions according to the body contours.

- Gap dimension = even gap dimension.

-- Tighten the bolts -arrows- while aligning the headlamp housing flush to the outer edge of the fender.

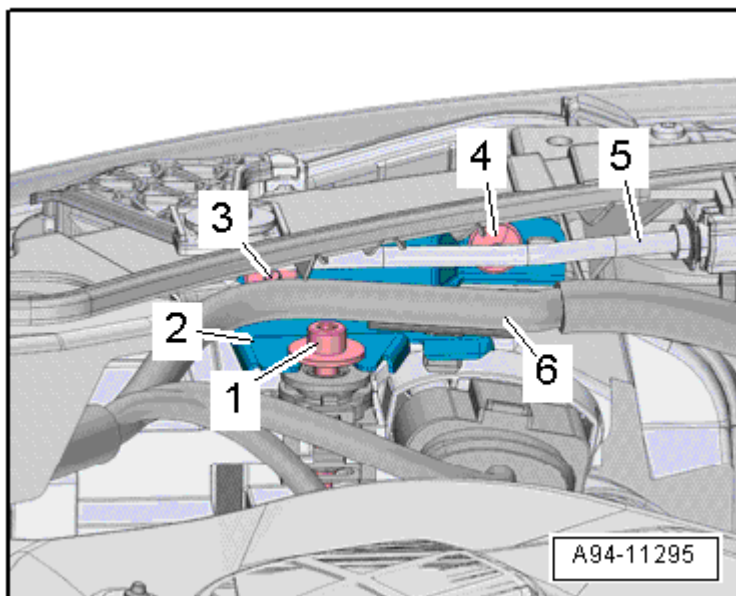


**Fig. 98: Tightening Bolts While Aligning Headlamp Housing Flush To Outer Edge Of Fender**  
Courtesy of AUDI OF AMERICA, LLC

- Check gap dimensions again, repeat adjustment of gap dimensions if necessary, as described above.
- Install the wheel housing liner. Refer to **Removal and Installation** .
- Adjust headlamps. Refer to **HEADLAMPS AND FOG LAMPS, CHECKING AND ADJUSTING**.

#### UPPER HEADLAMP HOUSING MOUNT, FROM MY 2013

##### Removing



**Fig. 99: Identifying Upper Headlamp Housing Mount****Courtesy of AUDI OF AMERICA, LLC**

- Left: free up the wiring harness -6-.
- Remove the rear hood latch cable -5- from the clutch cable. Refer to **Removal and Installation** .
- Remove the screws -1, 3, and 4-.
- Remove the mount -2- toward the rear.

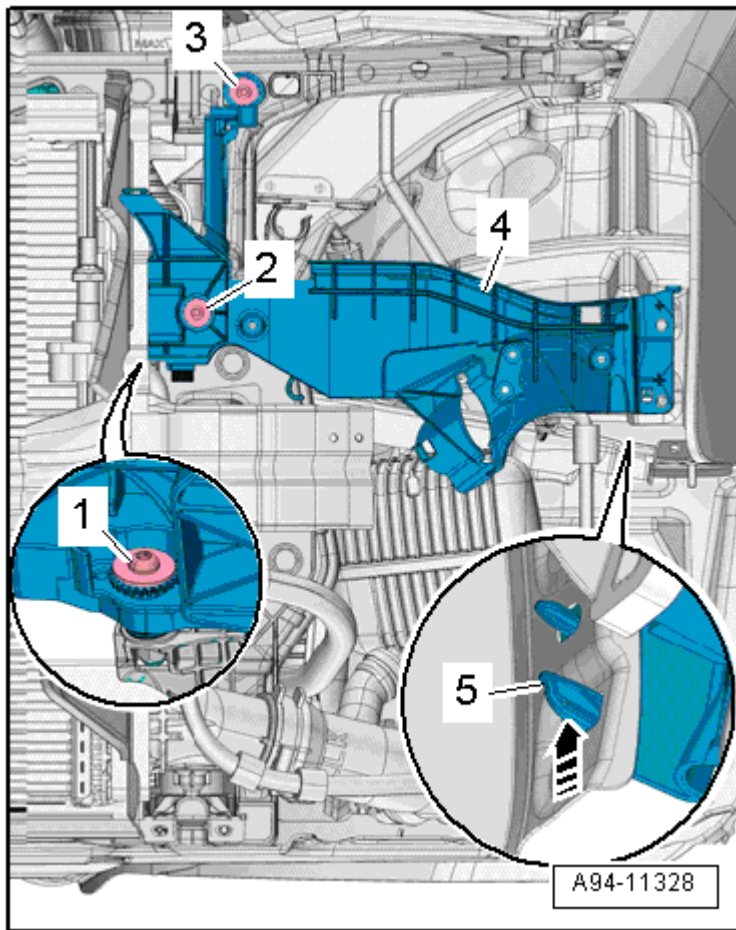
**Installing**

- Tightening specification, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, FROM MY 2013**.

Install in reverse order of removal. Note the following:

- Install the rear cable for the hood latch on the clutch cable. Refer to **Removal and Installation** .

**HEADLAMP HOUSING MOUNT BRACKET****Removing**



**Fig. 100: Identifying Headlamp Housing Mount Bracket**  
 Courtesy of AUDI OF AMERICA, LLC

- Remove front bumper cover. Refer to **Removal and Installation** .
- Remove the headlamp housing:
  - Halogen Headlamps: through MY 2012, refer to **HEADLAMP**, from MY 2013, refer to **HEADLAMP**.
  - HID Headlamps: through MY 2012, refer to **HEADLAMP**; from MY 2013, refer to **HEADLAMP**.
- If equipped, remove the nozzle for the headlamp washer system. Refer to **SPRAY NOZZLES** .
- Disconnect the connector on the front airbag crash sensor. Refer to **Removal and Installation** .
- Remove the bolts -1, 2, 3-.
- Release the tab -5- -arrow- and remove the bracket -4- from the lock carrier.
- If the bracket is replaced:

- Remove the headlamp housing mount. Refer to **HEADLAMP HOUSING MOUNT**.
- Remove the crash sensor for the front airbag. Refer to **Removal and Installation** .

**Installing**

- For the correct tightening specification, refer to **HEADLAMP HOUSING MOUNT OVERVIEW, THROUGH MY 2012** and **HEADLAMP HOUSING MOUNT OVERVIEW, FROM MY 2013**.

Install in reverse order of removal. Note the following:

- Install the headlamp housing mount and tighten the screws -arrows- hand-tight.
- Install the bracket on the fender and on the lock carrier and tighten the screws -arrows- hand-tight.
- Install the headlamp washer system spray nozzle. Refer to **SPRAY NOZZLES** .
- Install the bumper cover. Refer to **Removal and Installation** .
- Align the bumper cover gaps according to the body contours.
  - Gap dimension = even gap dimension.
- Tighten the bolts.
- Inspect the gaps again and repeat the adjustment if necessary.
- Install the headlamp housing:
  - Halogen Headlamps: through MY 2012, refer to **HEADLAMP**, from MY 2013, refer to **HEADLAMP**.
  - HID Headlamps: through MY 2012, refer to **HEADLAMP**; from MY 2013, refer to **HEADLAMP**.
- Adjust headlamps. Refer to **HEADLAMPS AND FOG LAMPS, CHECKING AND ADJUSTING**.

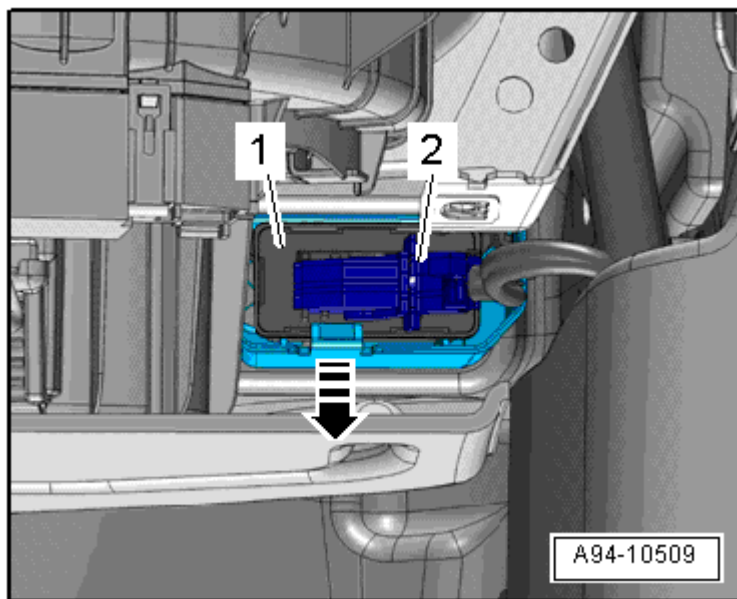
**HEADLAMP RANGE CONTROL AND CORNERING LAMP AND HEADLAMP RANGE CONTROL MODULES - J431- / -J745-**

The parking aid control module is integrated in the vehicle electrical system control module -J519- depending on the date of manufacture from MY 2013 and cannot be replaced separately if defective.

- Replace the vehicle electrical system control module, refer to **VEHICLE ELECTRICAL SYSTEM CONTROL MODULE -J519-** .

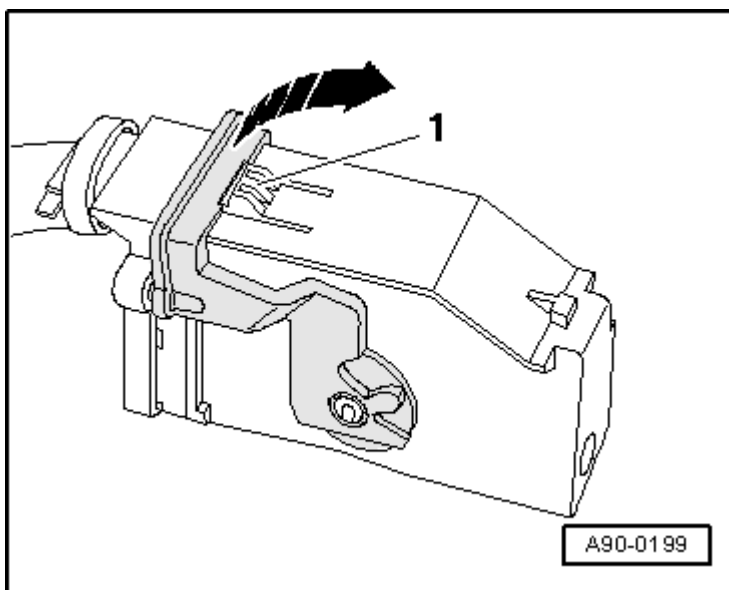
-- If the control module was replaced, select the "Replace" function for the respective control module in "Guided Fault Finding" or "Guided Functions" of the Vehicle Diagnostic Tester.

**Removing**



**Fig. 101: Identifying Headlamp Range Control, Cornering Lamp And Headlamp Range Control Modules**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the glove compartment. Refer to **Removal and Installation** .
- Release the retaining clip -arrow- and remove the module -1- from the retaining frame.
- Disconnect the electrical connector -2-.
- To disconnect the electrical connector, press the catch -1-, and push the latch in the -direction of the arrow- and remove the connector.



**Fig. 102: Identifying Catch And Retainer**  
Courtesy of AUDI OF AMERICA, LLC

**Installing**

- Tightening specification, refer to **AUTOMATIC HEADLAMP VERTICAL AIM CONTROL OVERVIEW**.

Install in reverse order of removal, observing the following:

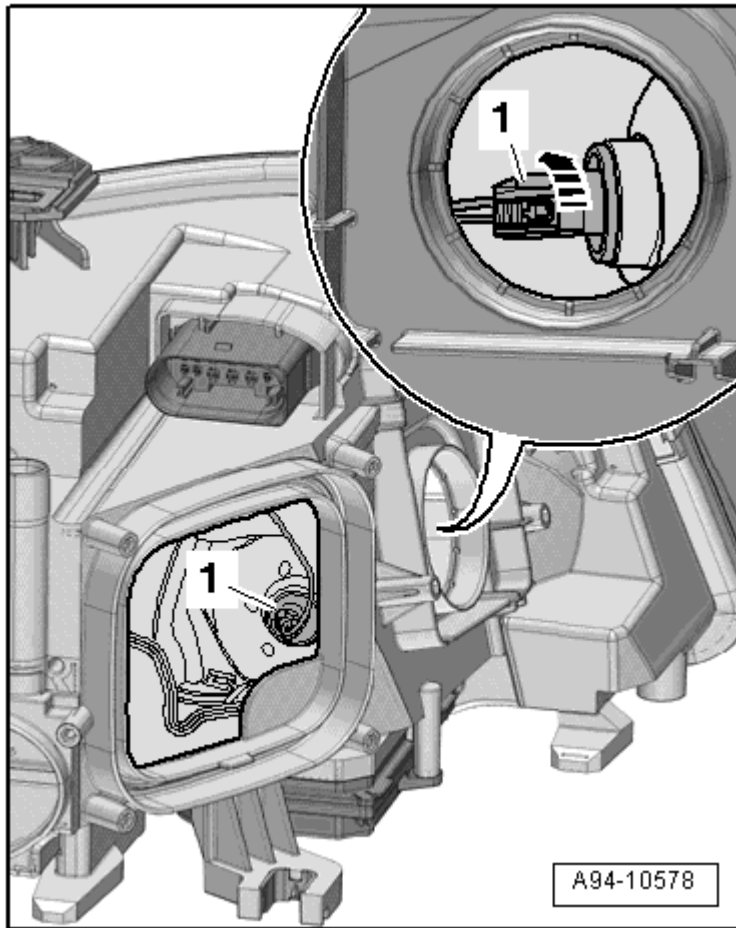
-- Install the glove compartment. Refer to **Removal and Installation** .

**HID HEADLAMPS WITH CORNERING LAMP, THROUGH 2012****FRONT SIDE MARKER LAMP BULBS -M33- / -M34-**

The front side marker lamp bulb is an Light Emitting Diode (LED) and is integrated in the headlamp housing. The LED cannot be replaced. The entire headlamp must be replaced.

-- Replace the headlamp. Refer to **HEADLAMP**.

**FRONT TURN SIGNAL LAMP BULBS -M5- / -M7-****Removing**



**Fig. 103: Identifying Front Turn Signal Lamp Bulbs**

Courtesy of AUDI OF AMERICA, LLC

-- Remove the headlamp control module. Refer to **HIGH-INTENSITY GAS DISCHARGE LAMP CONTROL MODULES -J343- /J344-**.

-- Remove the parking lamp and daytime running lamp module. Refer to **LED PARKING LAMP/DAYTIME RUNNING LAMP MODULES -L176- / -L177-**.

-- Insert needle nose pliers through the opening for the headlamp control module. Rotate the socket -1- counterclockwise -arrow- and remove it from the mount.

-- Remove the socket through the opening for the parking lamp/DRL module.

-- Disconnect the electrical connector and remove the bulb.

### Installing

Install in reverse order of removal, observing the following:

-- Insert the new bulb in the socket, taking care not to touch the glass bulb with bare hands.

-- Install the parking lamp and daytime running lamp module. Refer to **HIGH-INTENSITY GAS DISCHARGE LAMP CONTROL MODULES -J343- /J344.**

-- Install the headlamp control module. Refer to **HIGH-INTENSITY GAS DISCHARGE LAMP CONTROL MODULES -J343- /J344.**

#### **HEADLAMP**

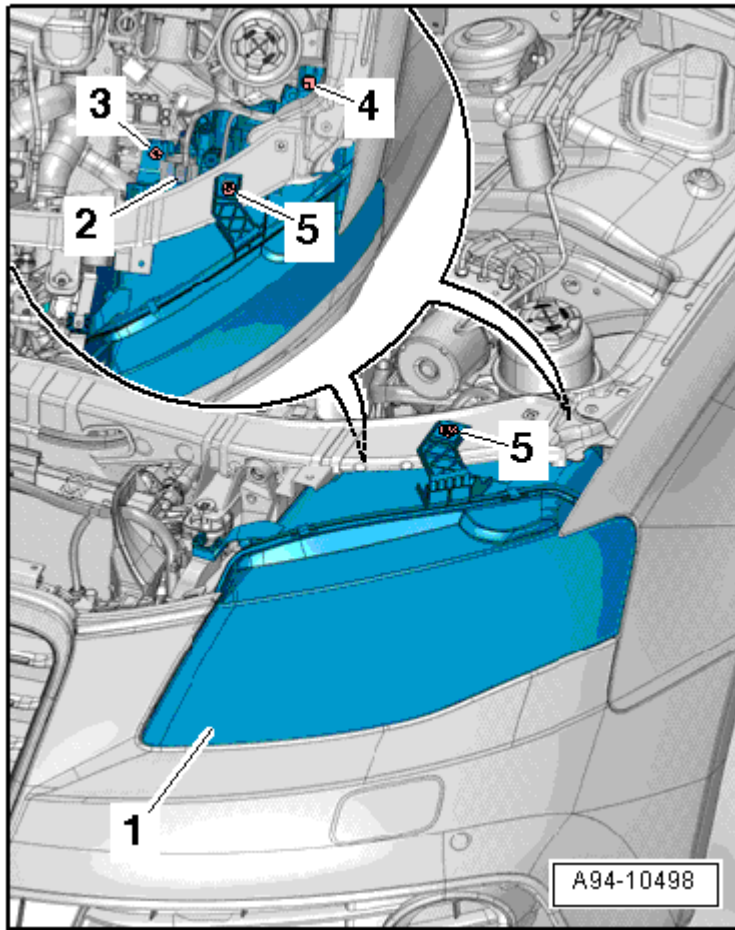
Observe the notes on contact corrosion. Refer to **CONTACT CORROSION.**

**NOTE:** Headlamps must be adjusted after performing measures that could influence headlamp adjustment. Refer to **HEADLAMPS AND FOG LAMPS, CHECKING AND ADJUSTING.**

**WARNING:** Danger to life due to high voltage.

- Usage and safety information for High Intensity Discharge (HID) headlamps. Refer to **General Information** .

#### **Removing**



**Fig. 104: Tightening Screws**

Courtesy of AUDI OF AMERICA, LLC

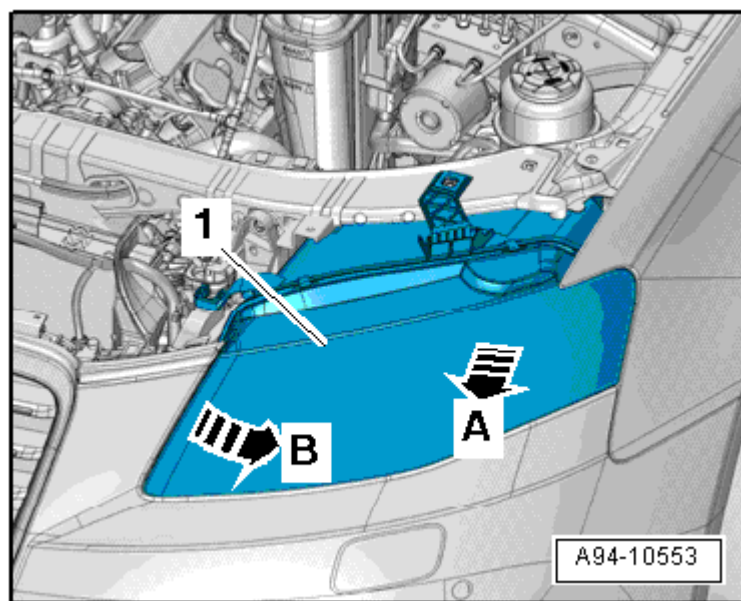
-- With the ignition turned off, disconnect the battery Ground (ND) cable. Refer to **BATTERY, DISCONNECTING AND CONNECTING** .

-- Remove the lock carrier cover. Refer to **Removal and Installation** .

-- Disconnect the electrical connector -2-.

-- Remove the screws -3, 4 and 5- for the headlamp -1-.

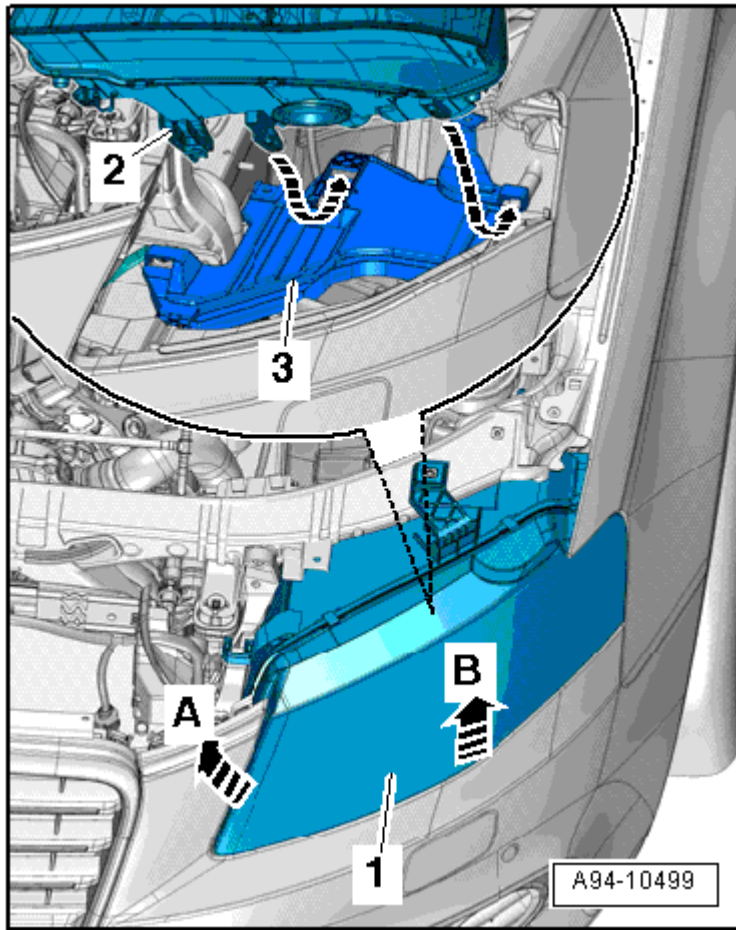
-- Pull the headlamp -1- forward -arrow A- until the headlamp guides can be guided out of the mounts on the mounting slide.



**Fig. 105: Pulling Headlamp Forward Until Headlamp Guides Can Be Guided Out**  
Courtesy of AUDI OF AMERICA, LLC

-- Then tilt the headlamp toward the fender side -arrow B- and remove it from the mounting slide.

### Installing

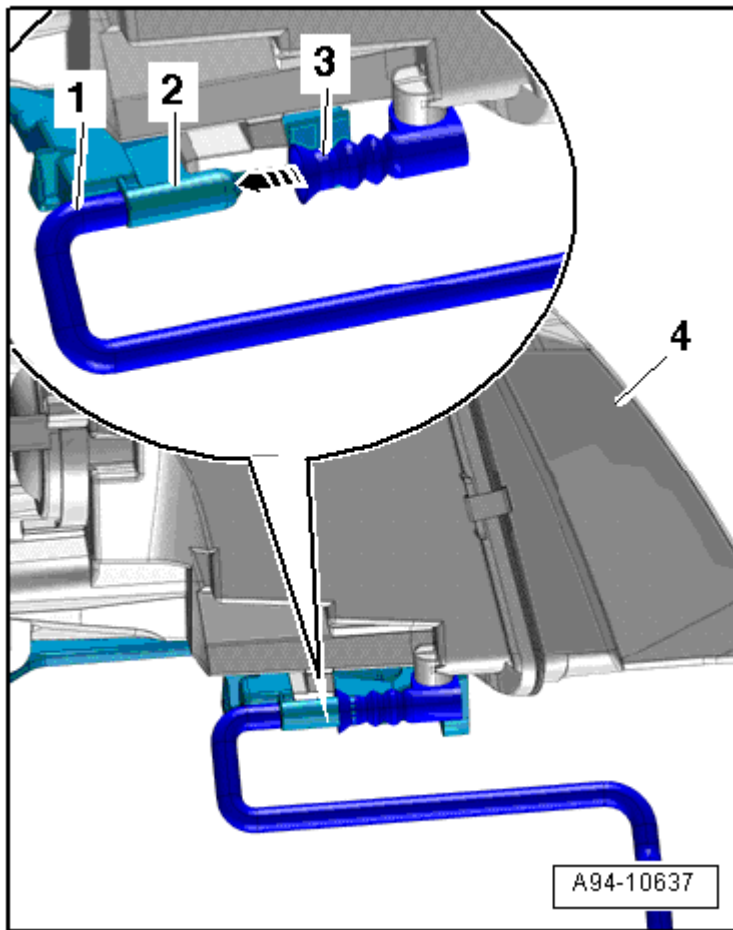


**Fig. 106: Tilting Headlamp Toward Fender Side To Remove It From Mounting Slide**  
 Courtesy of AUDI OF AMERICA, LLC

- Tightening specification, refer to **HALOGEN HEADLAMP OVERVIEW, THROUGH MY 2012**.

Install in reverse order of removal, observing the following:

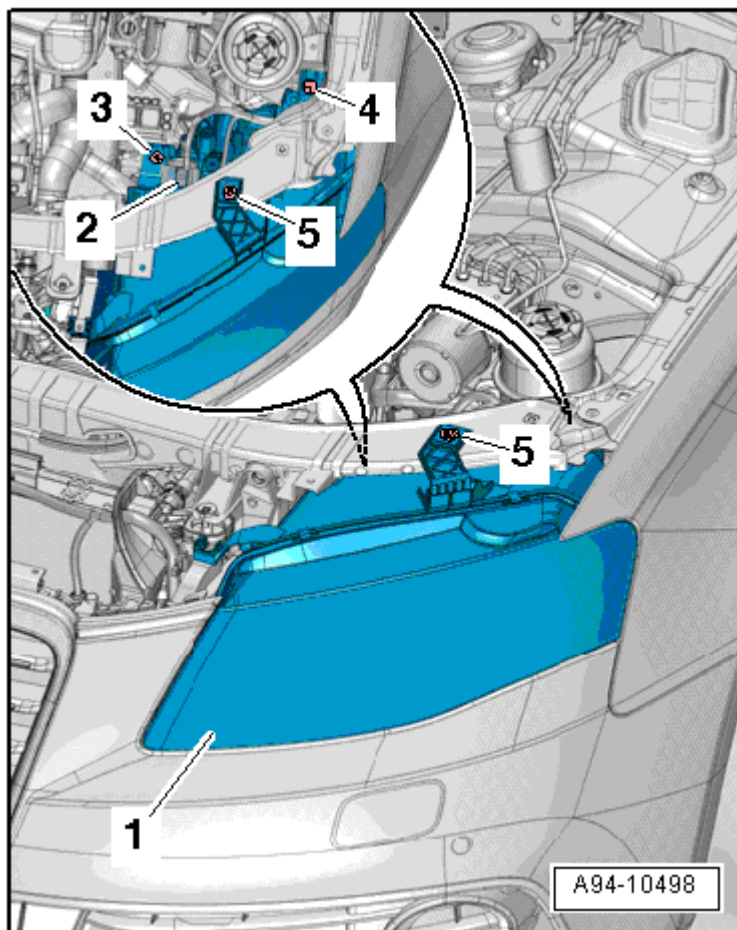
- Position the outer edge of the headlamp -1- inside behind the fender.
- Tilt the headlamp inward -arrow A-. The guide rails -2- on the headlamp must engage in the guides on the mount -3- -arrows-.
- Slide the headlamp back into the headlamp mount as far as the stop -arrow B-.
- The headlamp must slide into the mount gently without using force.
- When sliding the headlamp -4- in, make sure the headlamp ventilation -3- slides evenly into the mount -2- for the ventilation hose -1- -arrow-.



**Fig. 107: Identifying Headlamp -4-, Headlamp Ventilation -3-, Mount -2- And Ventilation Hose -1- - Arrow-**

Courtesy of AUDI OF AMERICA, LLC

-- Tighten the screws -3, 4 and 5-



**Fig. 108: Tightening Screws**

Courtesy of AUDI OF AMERICA, LLC

-- Install the lock carrier cover. Refer to **Removal and Installation** .

-- Connect the battery. Required actions, refer to **BATTERY, DISCONNECTING AND CONNECTING => Connecting** .

HEADLAMP BEAM ADJUSTMENT MOTORS -V48- / -V49-

#### Special tools and workshop equipment required

- Protective Gloves
- Protective Eyewear
- Box Cutter

**WARNING:** Danger to life due to high voltage.

- Usage and safety information for High Intensity Discharge (HID) headlamps. Refer to **General Information** .

## Removing

-- Remove the headlamp. Refer to HEADLAMP.

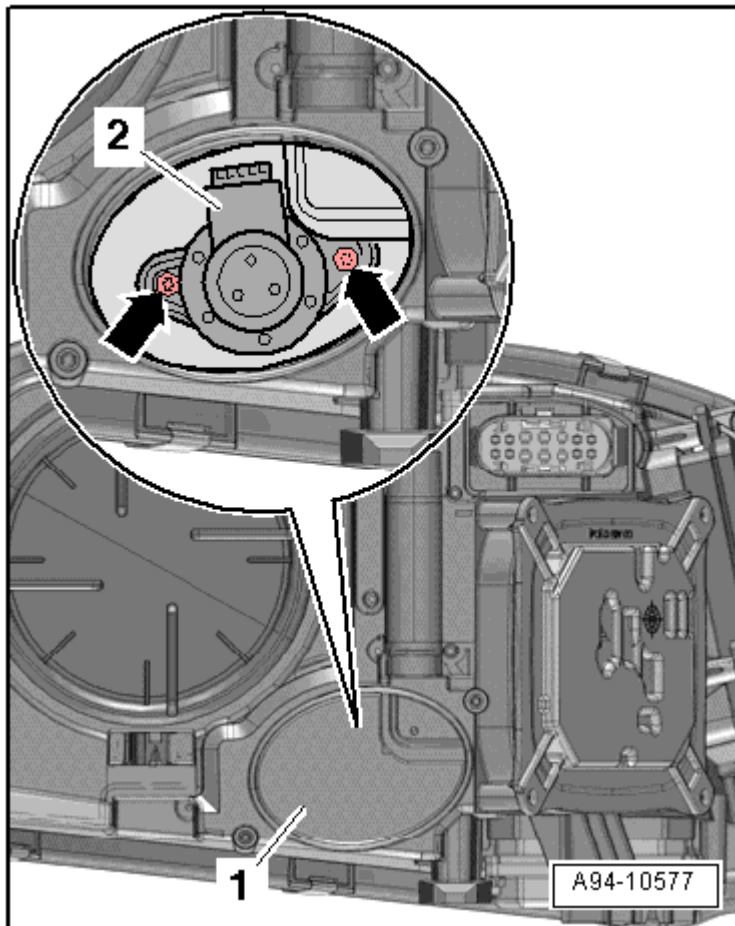
**NOTE:** The headlamp must be cut at the designated location with a sharp box cutter to replace the adjustment motor.

A cap can be ordered to seal the opening.

**WARNING:** There is a risk of injury and damage.

- Wear protective gloves and eyewear.
- To avoid damaged electrical wires in the housing, do not cut too deep.

-- Cut the cover -1- out of the headlamp with a sharp box cutter.

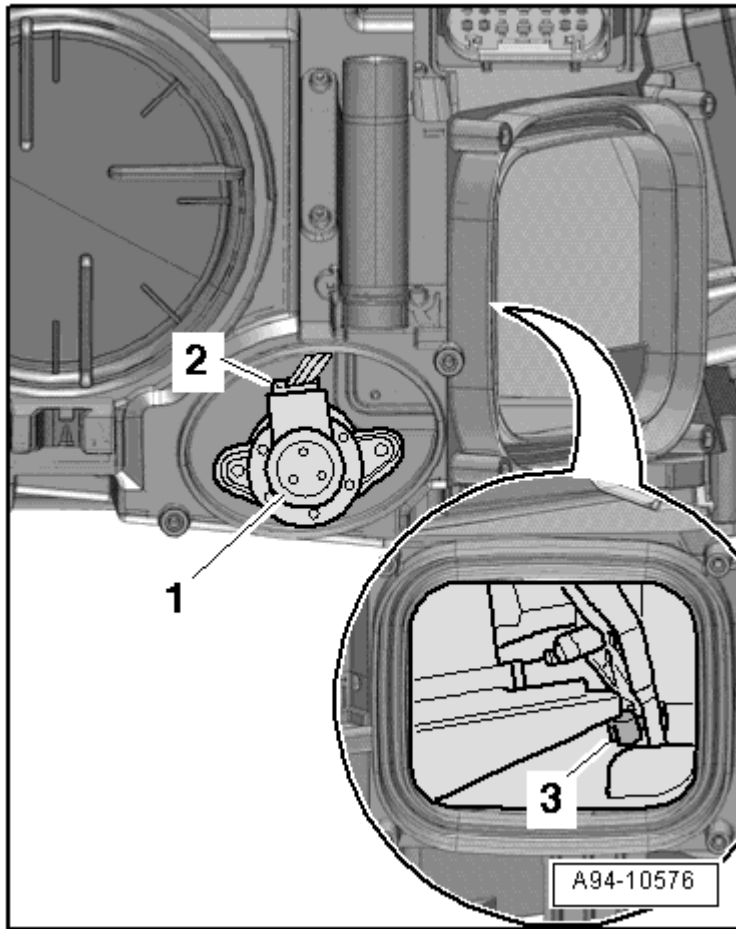


**Fig. 109: Identifying Screws For Adjustment Motor**  
Courtesy of AUDI OF AMERICA, LLC

**NOTE:** Remove any shavings and grit on the blind cover from the headlamp.

-- Remove the screws -arrows- for the adjustment motor -2-.

-- Remove the parking lamp and daytime running lamp module. Refer to **LED PARKING LAMP/DAYTIME RUNNING LAMP MODULES -L176- / -L177-**.



**Fig. 110: Identifying Parking Lamp And Daytime Running Lamp Module**  
Courtesy of AUDI OF AMERICA, LLC

-- Reach through the opening of the parking lamp and daytime running lamp module and press the ball head mount -3- back.

-- By swiveling the control motor -1-, push the ball end of the positioning stem downwards out of the socket.

-- Remove the adjustment motor from the headlamp.

-- Disconnect the electrical connector -2-.

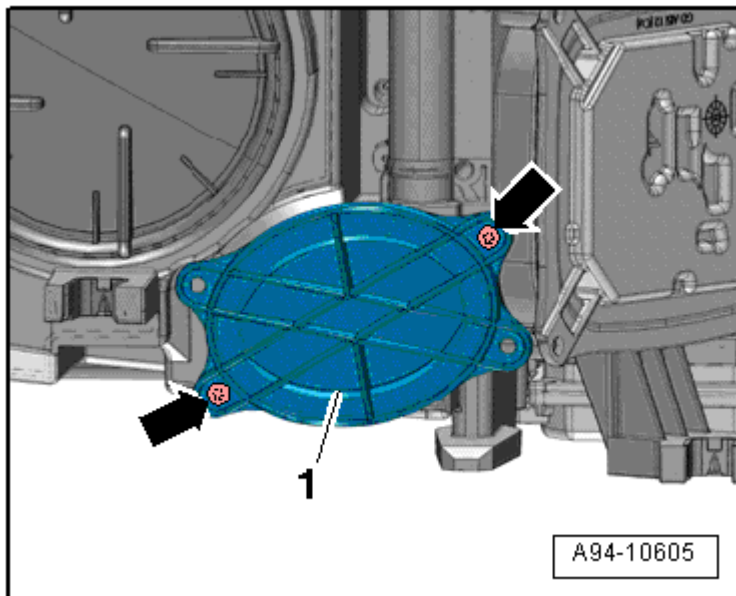
### Installing

- Tightening specification, refer to **HID HEADLAMP WITH CORNERING LAMP OVERVIEW, THROUGH 2012.**

Install in reverse order of removal, observing the following:

-- Start by inserting the ball end of the positioning stem from underneath in the reflector socket. To do so, pull the reflector to the rear.

-- Close the opening in the headlamp with the cover -1- from the repair kit.



**Fig. 111: Closing Opening In Headlamp With Cover**  
Courtesy of AUDI OF AMERICA, LLC

-- Tighten the screws -arrows-.

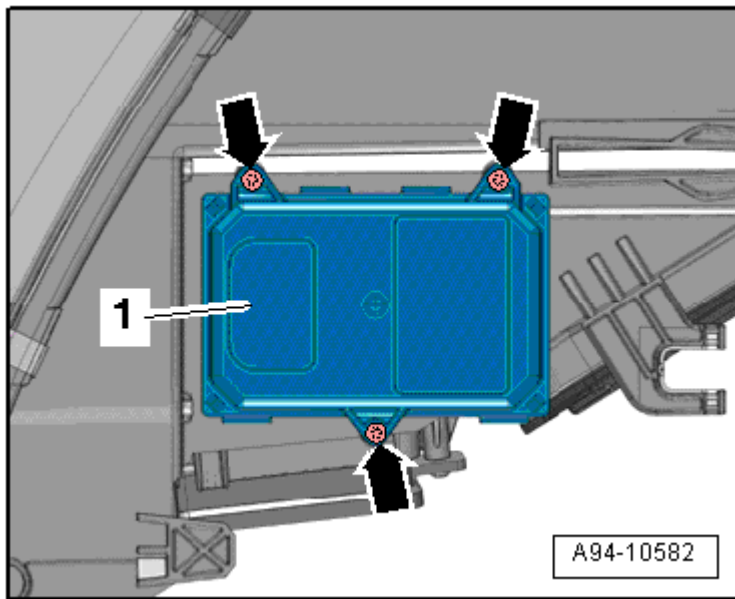
-- Install the headlamp. Refer to **HEADLAMP.**

**HEADLAMP POWER OUTPUT STAGES -J667- / -J668-**

**WARNING: Danger to life due to high voltage.**

- Usage and safety information for High Intensity Discharge (HID) headlamps. Refer to **General Information** .

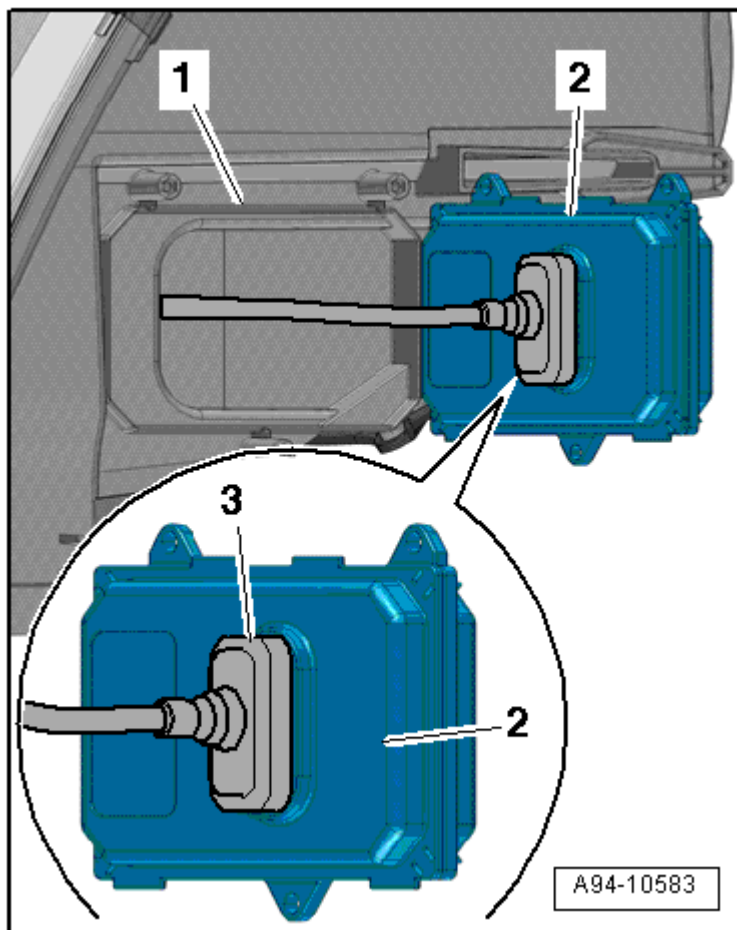
**Removing**



**Fig. 112: Identifying Headlamp**

Courtesy of AUDI OF AMERICA, LLC

- Remove the headlamp. Refer to **HEADLAMP**.
- Remove the screws -arrows- for the headlamp power output stage -1-.
- Remove the headlamp power output module -2- from the headlamp -1-.



**Fig. 113: Identifying Headlamp Power Output Module**  
Courtesy of AUDI OF AMERICA, LLC

-- Disconnect the electrical connector -3-.

### Installing

- Tightening specification, refer to **HID HEADLAMP WITH CORNERING LAMP OVERVIEW, THROUGH 2012.**

Install in reverse order of removal, observing the following:

- Check the seal between the power output stage and headlamp.
- Install the headlamp. Refer to **HEADLAMP.**

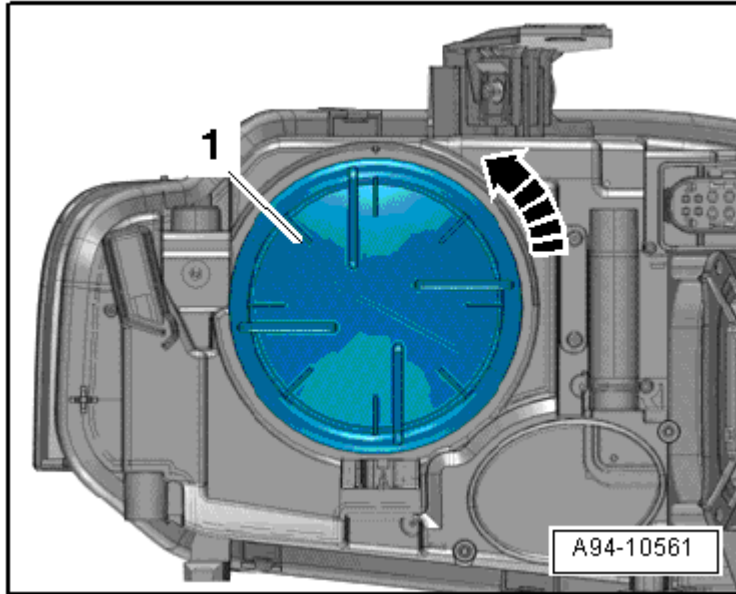
**HID HEADLAMP BULBS -L13- / -L14-**

**WARNING: Risk of death due to high voltage, injury risk and environmental hazard.**

- Usage and safety information for High Intensity Discharge (HID)

headlamps. Refer to General Information .

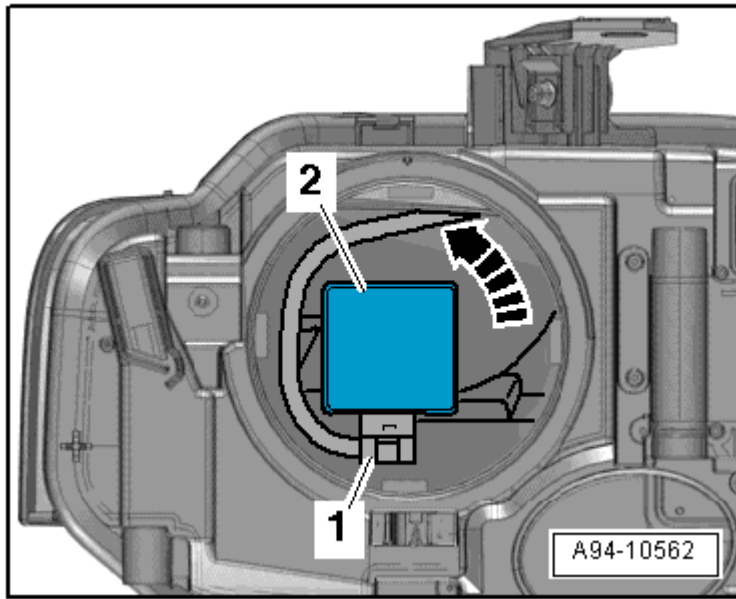
### Removing



**Fig. 114: Identifying Headlamp**

Courtesy of AUDI OF AMERICA, LLC

- Remove the headlamp. Refer to HEADLAMP.
- Turn the headlamp cover -1- counterclockwise -arrow- to release it and remove it from the headlamp.
- Rotate the bulb -2- in the -direction of the arrow- and remove it from the headlamp.



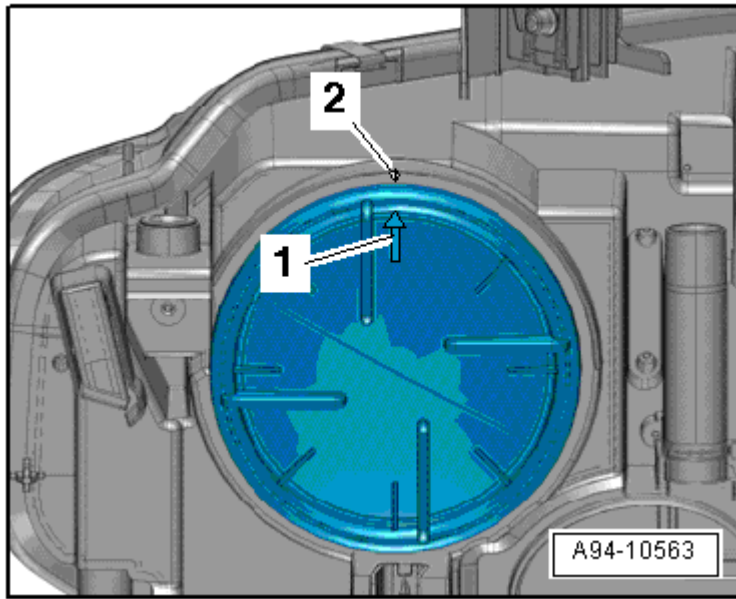
**Fig. 115: Disconnecting Electrical Connector**  
Courtesy of AUDI OF AMERICA, LLC

-- Disconnect the electrical connector -1-.

### Installing

Install in reverse order of removal, observing the following:

- Connect the connector and insert the new bulb in the headlamp. Do not touch the glass bulb with bare hands.
  - Installation location: The electrical connection faces down.
- Close the cover by rotating it clockwise.



**Fig. 116: Closing Cover By Rotating It Clockwise**  
Courtesy of AUDI OF AMERICA, LLC

- The mark -2- on the headlamp and the arrow -1- on the cover must align.

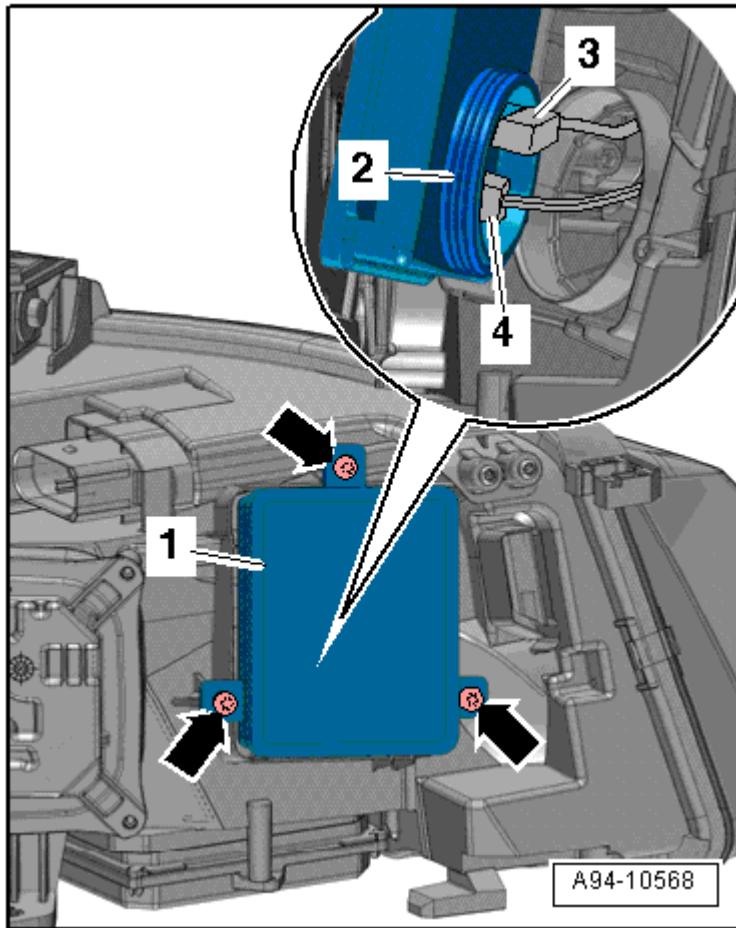
-- Install the headlamp. Refer to **HEADLAMP**.

#### HIGH-INTENSITY GAS DISCHARGE LAMP CONTROL MODULES -J343- /J344

**WARNING: Danger to life due to high voltage.**

- Always disconnect the battery wire strap before working on High Intensity Discharge (HID) headlamp components marked with yellow high voltage symbols.

#### Removing



**Fig. 117: Identifying Control Module**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the headlamp. Refer to **HEADLAMP**.
- Remove the screws -arrows-.
- Remove the control module -1- from the headlamp.
- Disconnect the adapter cable -3- and the electrical connector -4- from the headlamp control module.
- Remove the headlamp control module.

### Installing

- Tightening specification, refer to **HID HEADLAMP WITH CORNERING LAMP OVERVIEW, THROUGH 2012**.

Install in reverse order of removal, observing the following:

- Check the seal -2- between the headlamp control module and headlamp for damage.

-- Install the headlamp. Refer to **HEADLAMP**.

#### LED PARKING LAMP/DRL BULBS

The daytime running lamps and parking lamps are Light Emitting Diode (LED) lamps and are integrated in the headlamp. The LEDs cannot be replaced. The entire headlamp must be replaced.

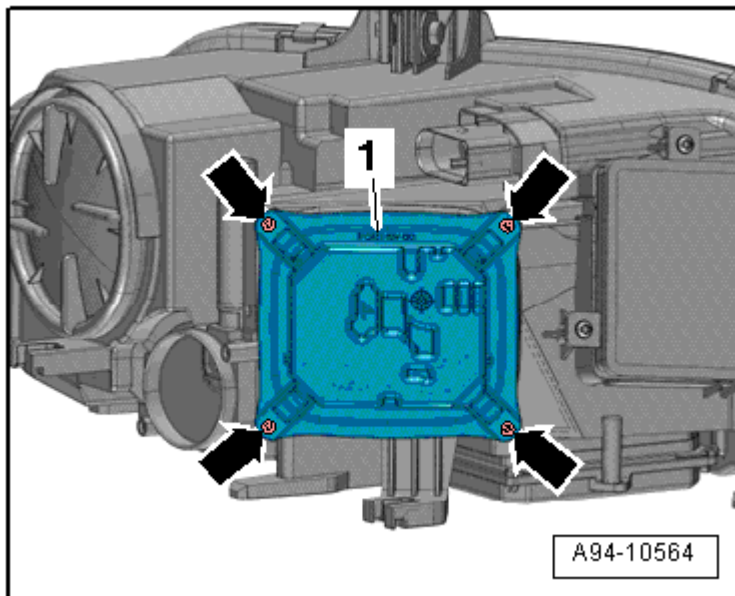
-- Replace the headlamp. Refer to **HEADLAMP**.

#### LED PARKING LAMP/DAYTIME RUNNING LAMP MODULES -L176- / -L177-

**WARNING: Danger to life due to high voltage.**

- Usage and safety information for High Intensity Discharge (HID) headlamps. Refer to **General Information** .

#### Removing



**Fig. 118: Identifying Headlamp**

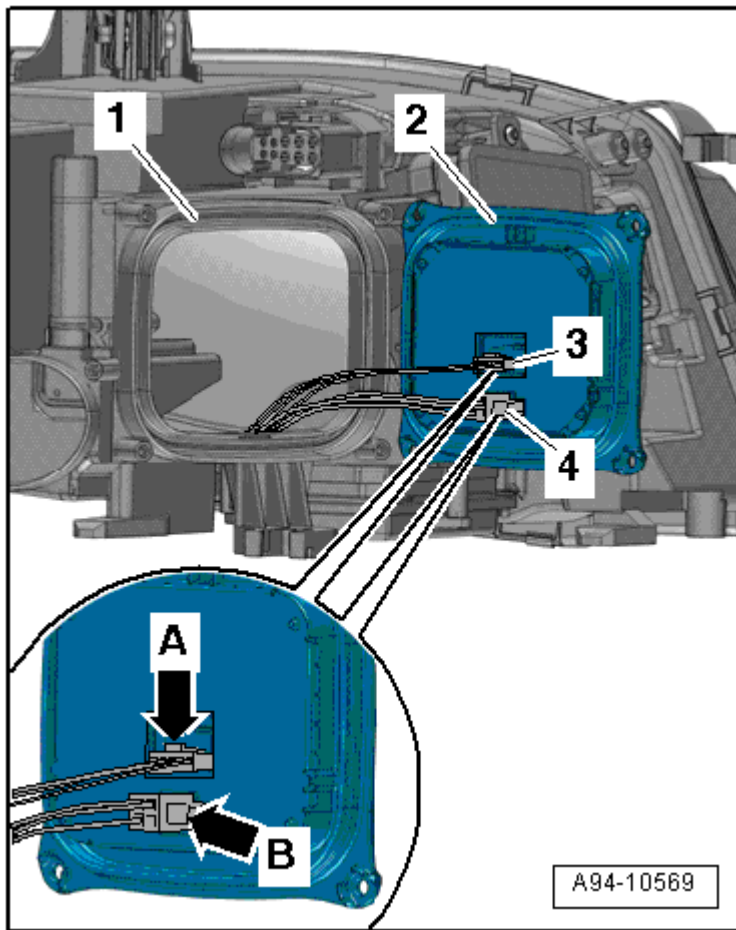
Courtesy of AUDI OF AMERICA, LLC

-- Remove the headlamp. Refer to **HEADLAMP**.

-- Remove the screws -arrows-.

-- Remove the daytime running lamp and parking lamp Light Emitting Diode (LED) module -1- from the headlamp.

-- Disconnect the electrical connector -4- by releasing the retaining spring -arrow B-.



**Fig. 119: Disconnecting Electrical Connector**

Courtesy of AUDI OF AMERICA, LLC

-- Disconnect the electrical connector -3- by releasing the retaining spring -arrow A-.

-- Remove the daytime running lamp and parking lamp LED module.

### Installing

- Tightening specification, refer to **HID HEADLAMP WITH CORNERING LAMP OVERVIEW, THROUGH 2012.**

Install in reverse order of removal, observing the following:

-- Check the seal -1- between the LED module and headlamp.

-- Install the headlamp. Refer to **HEADLAMP.**

### LOW BEAM REFLECTOR MOTORS -V294- / -V295-

The lower beam cover sits in the headlamp and cannot be replaced separately if it is faulty.

-- Replace the headlamp. Refer to **HEADLAMP**.

#### LEFT AND RIGHT DYNAMIC CORNERING LAMP MOTORS V318/V319

The dynamic cornering light position motor sits in the headlamp and cannot be replaced separately if it is faulty.

-- Replace the headlamp. Refer to **HEADLAMP**.

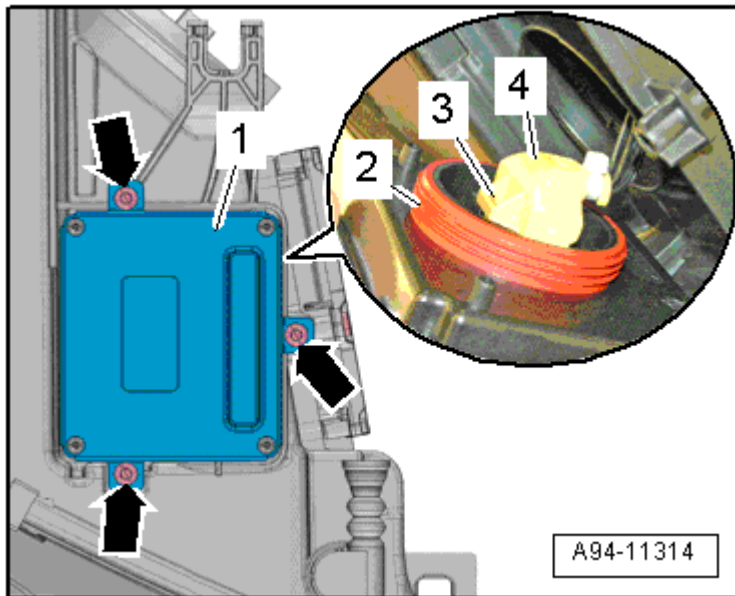
#### HID HEADLAMP, FROM MY 2013

#### DAYTIME RUNNING LAMP AND PARKING LAMP CONTROL MODULE -J860- / -J861-

**WARNING: Danger to life due to high voltage.**

- Always disconnect the battery wire strap before working on gas-discharge headlamp components marked with yellow high-voltage symbols.

#### Removing



**Fig. 120: Identifying Headlamp**

Courtesy of AUDI OF AMERICA, LLC

-- Remove the headlamp. Refer to **HEADLAMP**.

-- Remove the bolts -arrows-.

-- Remove the control module -1- from the headlamp housing.

-- Press the release button -3- and disconnect the connector -4-.

-- Remove the control module.

### Installing

- Tightening specification, refer to **HID HEADLAMPS OVERVIEW, FROM MY 2013.**

Install in reverse order of removal. Note the following:

-- Make sure the seal -2- between the control module and the headlamp housing is not damaged.

-- Install the headlamp. Refer to **HEADLAMP.**

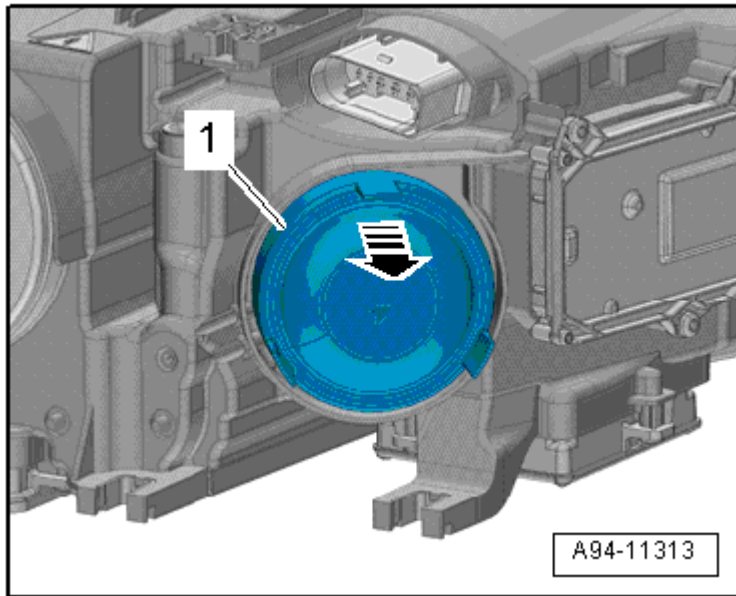
### FRONT SIDE MARKER LAMP BULBS -M33- / -M34-

The front side marker lamp bulb is an LED and is integrated in the headlamp housing. The LED cannot be replaced. The entire headlamp must be replaced.

-- Replace the headlamp. Refer to **HEADLAMP.**

### FRONT TURN SIGNAL LAMP BULBS -M5- / -M7-

### Removing



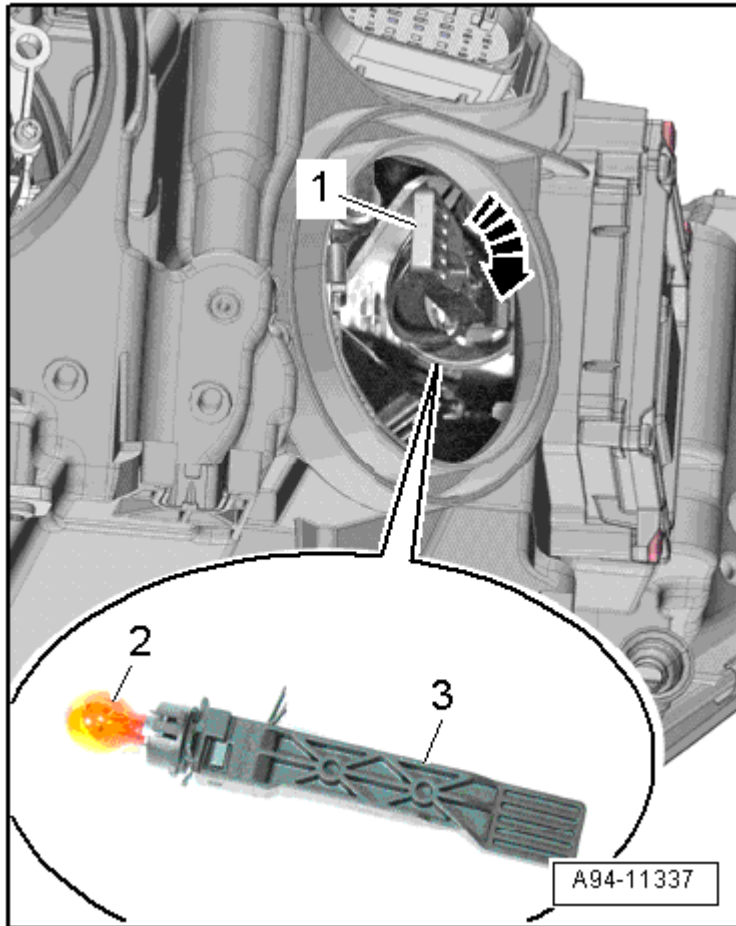
**Fig. 121: Identifying Housing Cover**

Courtesy of AUDI OF AMERICA, LLC

-- Right side: remove the air filter housing. Refer to **[For engine(s) CALA] Removal and Installation** or refer to **[For engine(s) CAEB] Removal and Installation** or refer to **[For engine(s) CCBA] Removal and Installation** .

-- Remove the housing cover -1- from the headlamp housing -arrow-.

-- Release the bulb socket -1- : on the left side, turn it clockwise; on the right side turn it counter-clockwise - arrow-.



**Fig. 122: Releasing Bulb Socket On Left Side Turn It Clockwise And On Right Side Turn It Counter-Clockwise**

Courtesy of AUDI OF AMERICA, LLC

-- Pull the bulb socket out of the housing.

-- Remove the bulb -2- from the bulb socket -3-.

### Installing

Install in reverse order of removal. Note the following:

-- Insert new bulb in the bulb socket. Do not touch the glass bulbs with bare hands.

-- Close the housing cover.

-- Right side: install the air filter housing. Refer to [For engine(s) CALA] Removal and Installation or refer to [For engine(s) CAEB] Removal and Installation or refer to [For engine(s) CCBA] Removal and Installation .

#### HEADLAMP

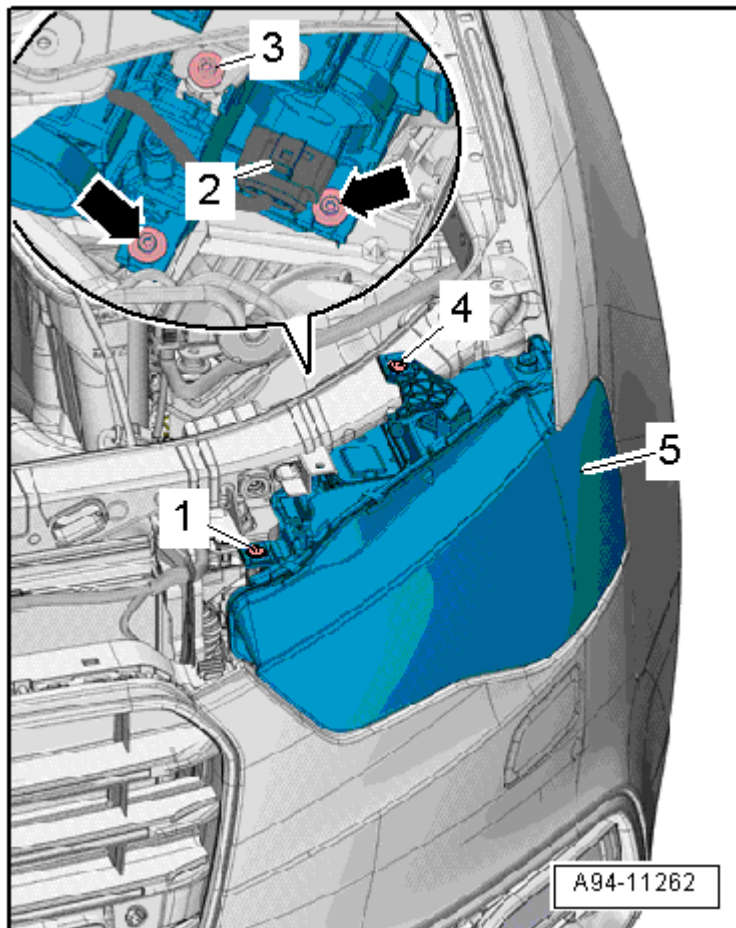
Refer to the information regarding contact corrosion. Refer to CONTACT CORROSION.

**NOTE:** Headlamps must be adjusted after performing measures that could influence headlamp adjustment. Refer to HEADLAMPS AND FOG LAMPS, CHECKING AND ADJUSTING.

**WARNING:** Danger to life due to high voltage.

- Usage and safety information for gas discharge headlamps, refer to General Information .

#### Removing



**Fig. 123: Identifying Lock Carrier Cover**

Courtesy of AUDI OF AMERICA, LLC

-- With the ignition switched off, disconnect the battery ground (GND) wire. Refer to **BATTERY, DISCONNECTING AND CONNECTING** .

-- Remove the lock carrier cover. Refer to **Removal and Installation** .

-- Disconnect the connector -2-.

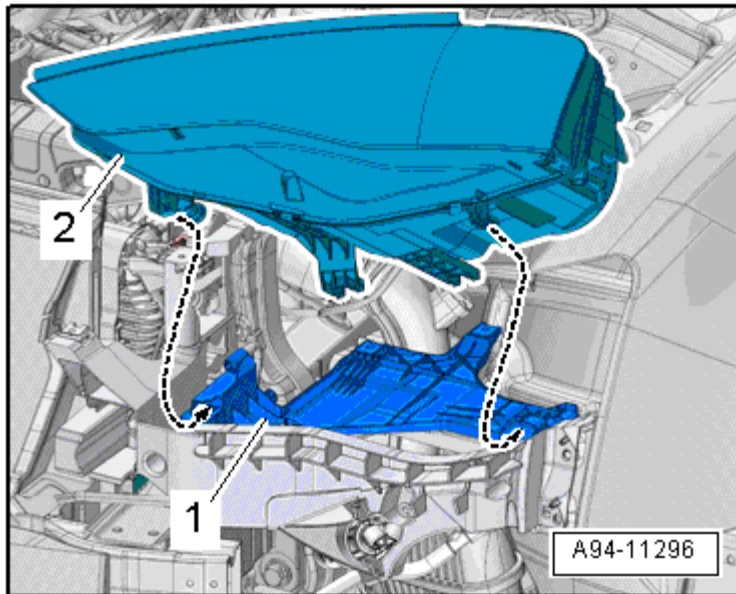
-- Remove the bolts -1 and 4-.

-- Remove the bolt -3- and remove the adjusting mechanism from the headlamp housing.

-- Loosen the bolt -arrows- a few turns from the headlamp housing.

-- Remove headlamp -5- toward front from body.

### Installing



**Fig. 124: Identifying Headlamp Toward Front From Body**  
Courtesy of AUDI OF AMERICA, LLC

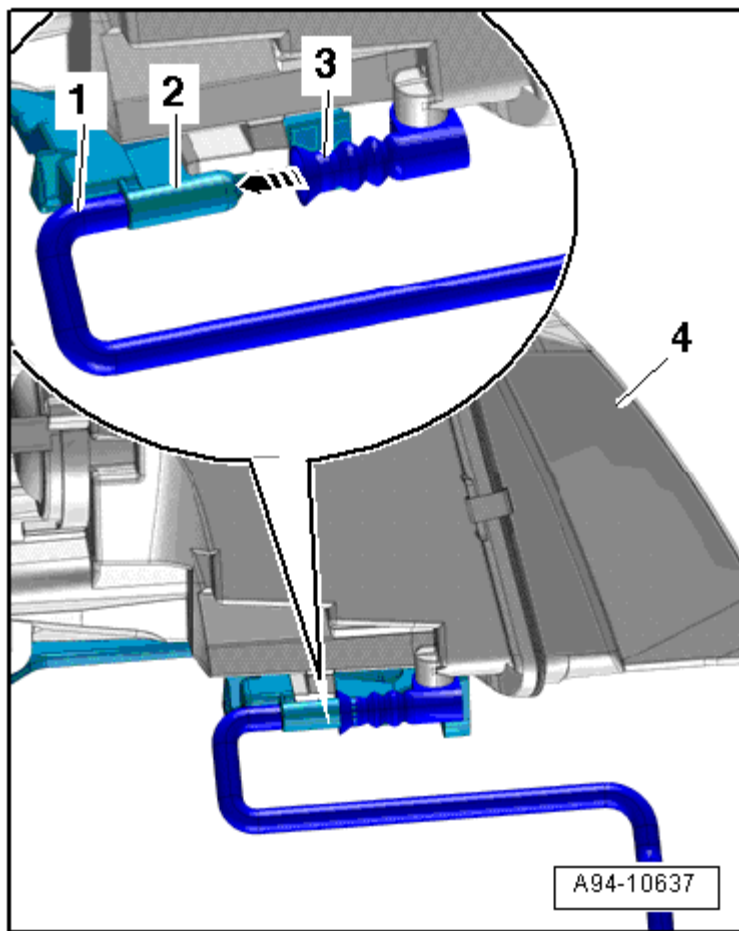
- Tightening specification, refer to **HID HEADLAMPS OVERVIEW, FROM MY 2013**.

Install in reverse order of removal. Note the following:

-- When inserting the headlamp -2- into the mount -1-, make sure the guide tracks on the headlamp engage in the guides on the mount -arrows-.

- Headlamp must slide gently into mount and without using force.

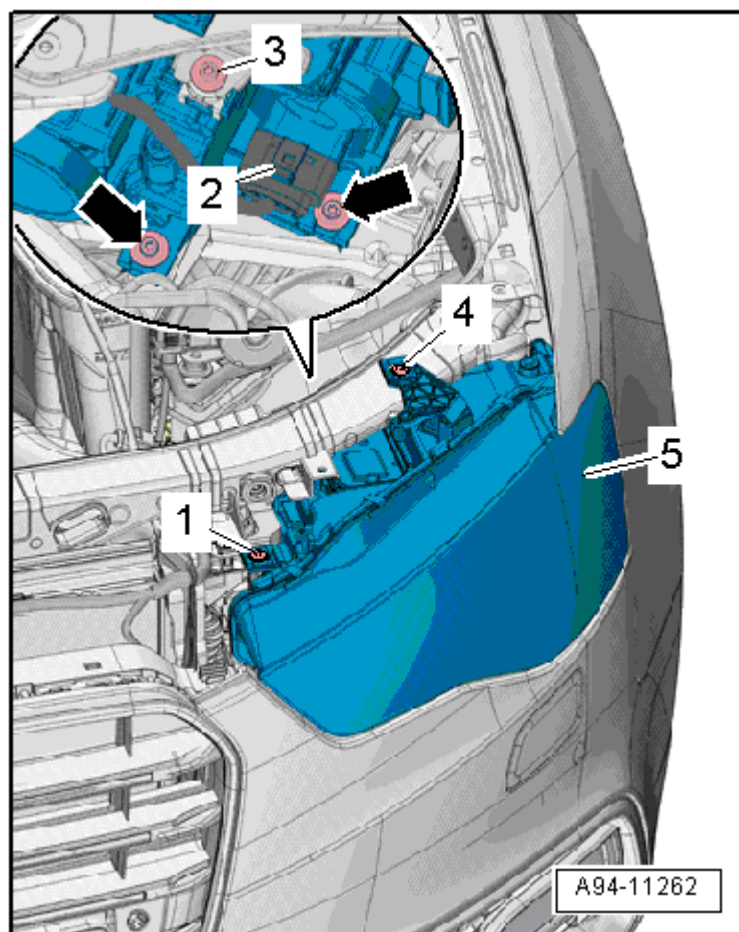
-- When sliding the headlamp -4- in, make sure the headlamp ventilation -3- slides evenly into the mount -2- for the ventilation hose -1- -arrow-.



**Fig. 125: Identifying Headlamp -4-, Headlamp Ventilation -3-, Mount -2- And Ventilation Hose -1- - Arrow-**

Courtesy of AUDI OF AMERICA, LLC

-- Tighten the bolts -1, 3, 4- and -arrows-.



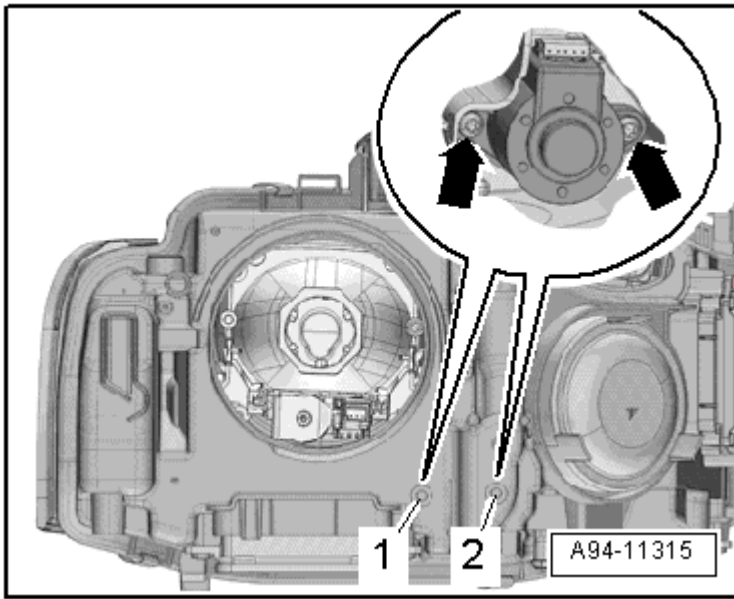
**Fig. 126: Identifying Lock Carrier Cover**  
Courtesy of AUDI OF AMERICA, LLC

-- Install the lock carrier cover. Refer to **Removal and Installation** .

-- Connect battery. Required actions, refer to **BATTERY, DISCONNECTING AND CONNECTING => Connecting** .

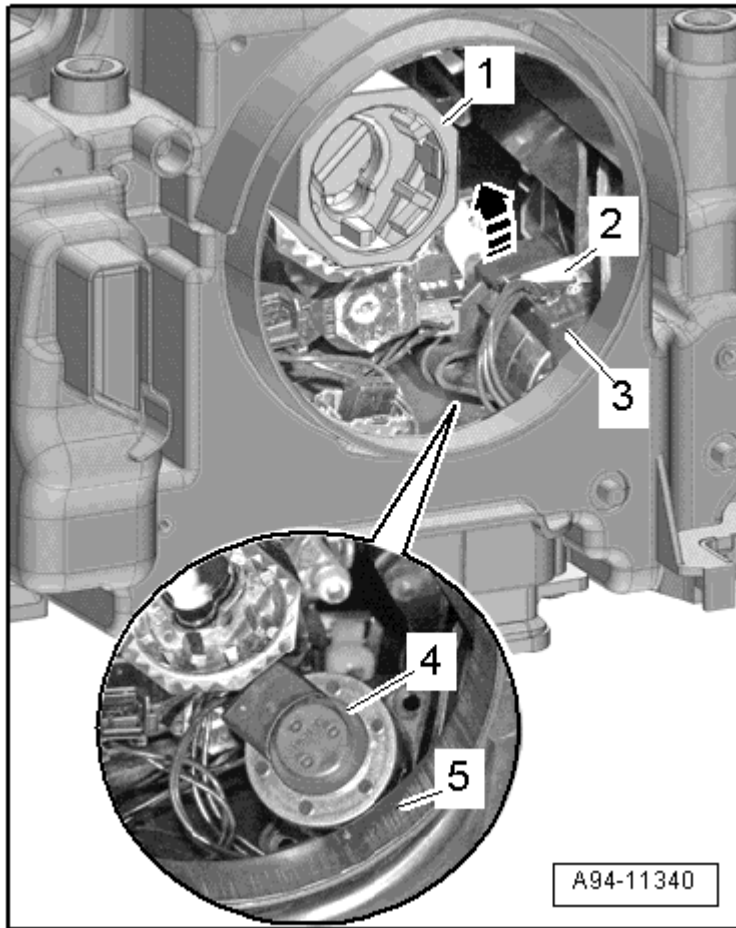
HEADLAMP BEAM ADJUSTMENT MOTOR -V48- / -V49-

### Removing



**Fig. 127: Identifying Headlamp Beam Adjustment Motor**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the headlamp. Refer to **HEADLAMP**.
- Remove the HID lamp. Refer to **HID HEADLAMP BULBS -L13- / -L14-**.
- Counterhold from the inside and push the pins through to remove the pin -1, 2- with pliers from out of the headlamp housing.
- Remove the bolts through the openings -arrows-.
- Push the ball end of the positioning stem upward -arrow- and out of the ball end mount by swiveling the control motor while at the same time pushing the reflector -3- forward, to remove the headlamp range control positioning motor -1-.



**Fig. 128: Identifying Headlamp Range Control Positioning Motor -1-, Connector -2-, Reflector -3-, Adjustment Motor -4- And Headlamp Housing -5-**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the adjustment motor -4- from out of the headlamp housing -5-, as shown in the illustration.
- Disconnect the connector -2-.

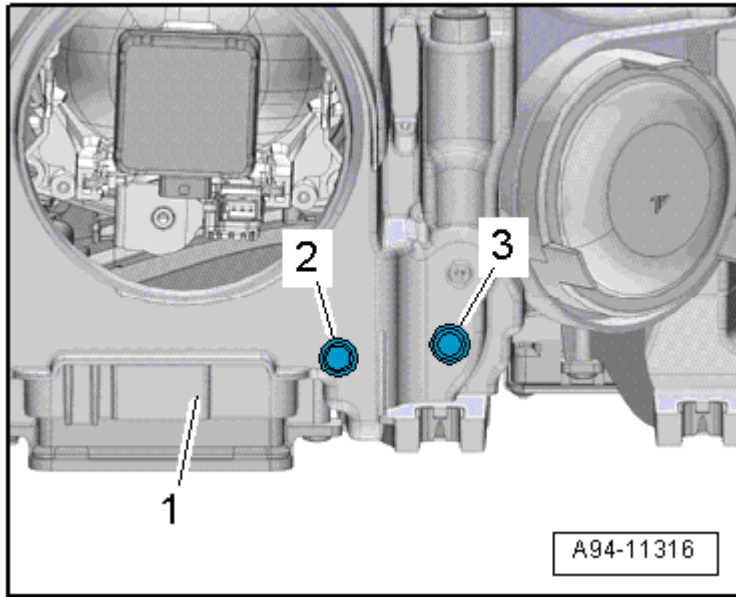
### Installing

- Tightening specification, refer to **HID HEADLAMPS OVERVIEW, FROM MY 2013.**

Install in reverse order of removal. Note the following:

- When connecting the connector, install the adjustment motor.
  - Insert the adjusting axle ball head into the reflector ball socket first from below while pulling the reflector back.
- Tighten the bolts.

-- Close the opening in the headlamp housing -1- with the grommets -2, 3- from the repair kit.



**Fig. 129: Tightening Bolts**

Courtesy of AUDI OF AMERICA, LLC

-- Install the HID bulb. Refer to **HID HEADLAMP BULBS -L13- / -L14-**.

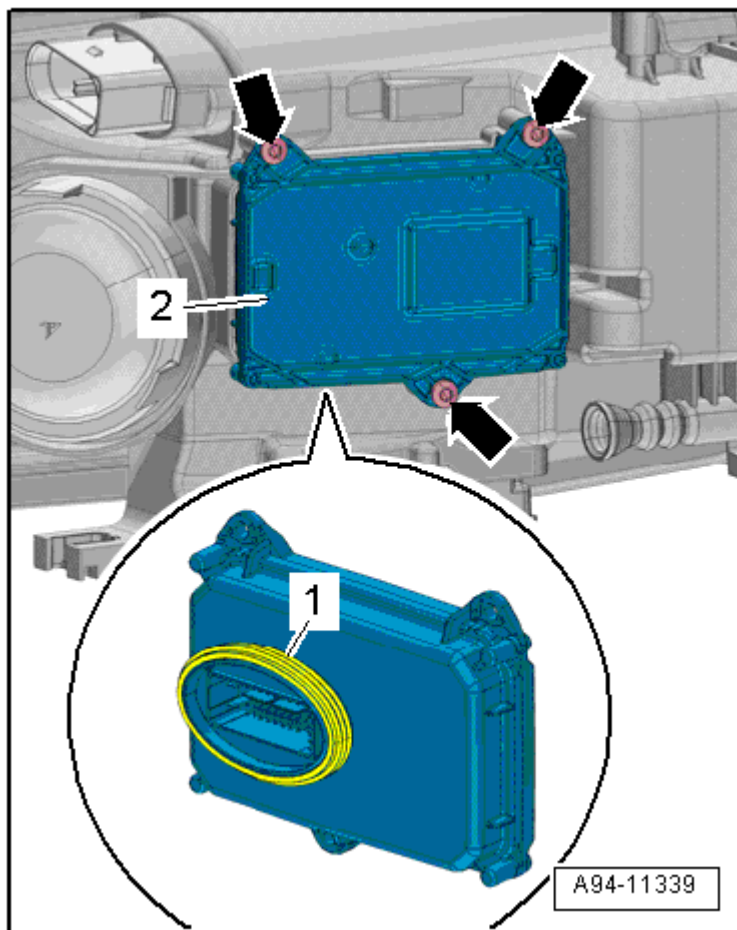
-- Install the headlamp. Refer to **HEADLAMP**.

**HEADLAMP POWER OUTPUT STAGE -J667- / -J668-**

**WARNING: Danger to life due to high voltage.**

- Always disconnect the battery wire strap before working on gas-discharge headlamp components marked with yellow high-voltage symbols.

**Removing**



**Fig. 130: Identifying Headlamp Power Output Stage**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the headlamp. Refer to **HEADLAMP**.
- Remove the bolts -arrows-.
- Remove the headlamp power output stage -2-.

### Installing

- Tightening specification, refer to **HID HEADLAMPS OVERVIEW, FROM MY 2013**.

Install in reverse order of removal. Note the following:

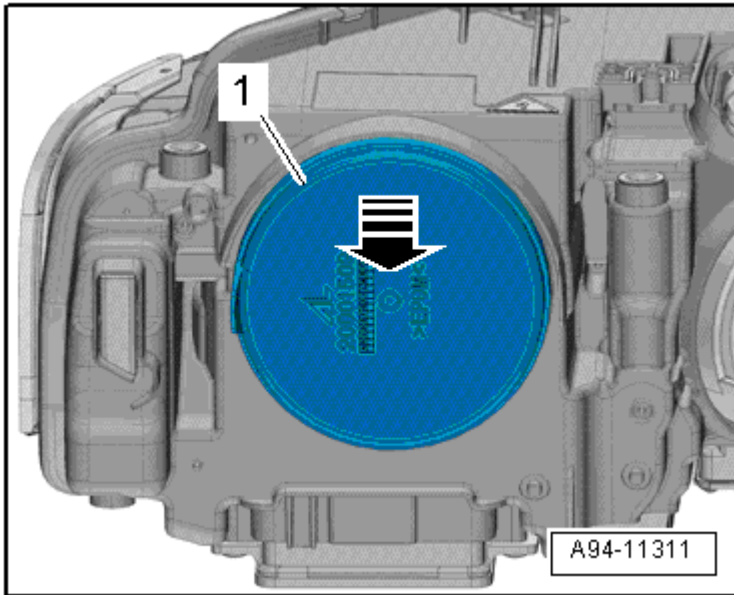
- Make sure the seal -1- between the power output stage and the headlamp housing is not damaged.
- Install the headlamp. Refer to **HEADLAMP**.

**HID HEADLAMP BULBS -L13- / -L14-**

**WARNING:** Risk of death due to high voltage, injury risk and environmental hazard.

- Usage and safety information for gas discharge headlamps, refer to General Information .

### Removing



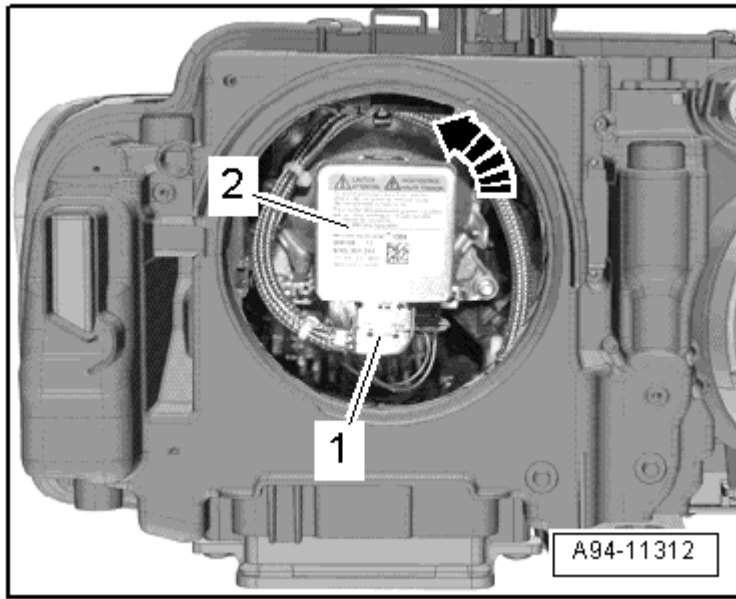
**Fig. 131: Identifying Housing Cover From Headlamp Housing**

Courtesy of AUDI OF AMERICA, LLC

-- Right side: remove the air filter housing. Refer to [For engine(s) CALA] Removal and Installation or refer to [For engine(s) CAEB] Removal and Installation or refer to [For engine(s) CCBA] Removal and Installation .

-- Remove the housing cover -1- from the headlamp housing -arrow-.

-- Rotate the HID bulb -2- in the -direction of the arrow- and remove it from the housing.



**Fig. 132: Rotating HID Bulb In Direction Of Arrow**  
Courtesy of AUDI OF AMERICA, LLC

-- Disconnect the connector -1-.

### Installing

Install in reverse order of removal. Note the following:

-- Insert new HID headlamp bulb in the housing. Do not touch the glass bulbs with bare hands.

- Installation location: The electrical connection faces down.

-- Close the housing cover.

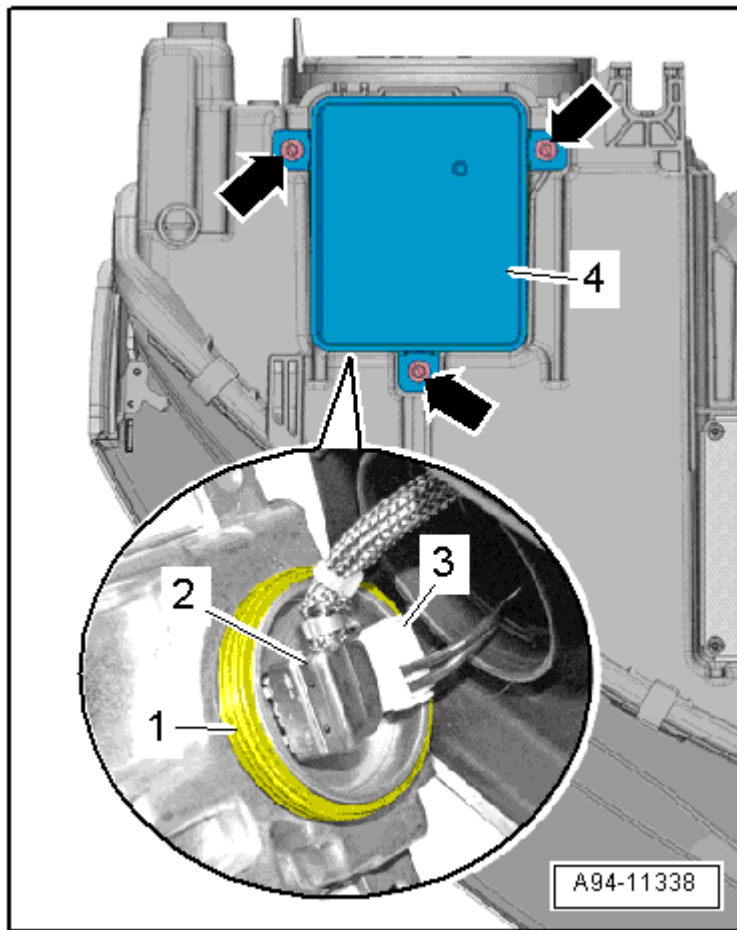
-- Right side: install the air filter housing. Refer to [For engine(s) CALA] Removal and Installation or refer to [For engine(s) CAEB] Removal and Installation or refer to [For engine(s) CCBA] Removal and Installation .

HIGH-INTENSITY GAS DISCHARGE LAMP CONTROL MODULE -J343- /J344

**WARNING: Danger to life due to high voltage.**

- Always disconnect the battery wire strap before working on gas-discharge headlamp components marked with yellow high-voltage symbols.

### Removing



**Fig. 133: Identifying Gas-Discharge Headlamp Control Module -4-, Adapter Cable -2- And Connector -3-**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the headlamp. Refer to **HEADLAMP**.
- Remove the bolts -arrows-.
- Remove the control module -4- from the headlamp housing.
- Disconnect the adapter cable -2- and the connector -3-.
- Remove the control module.

### Installing

- Tightening specification, refer to **HID HEADLAMPS OVERVIEW, FROM MY 2013**.

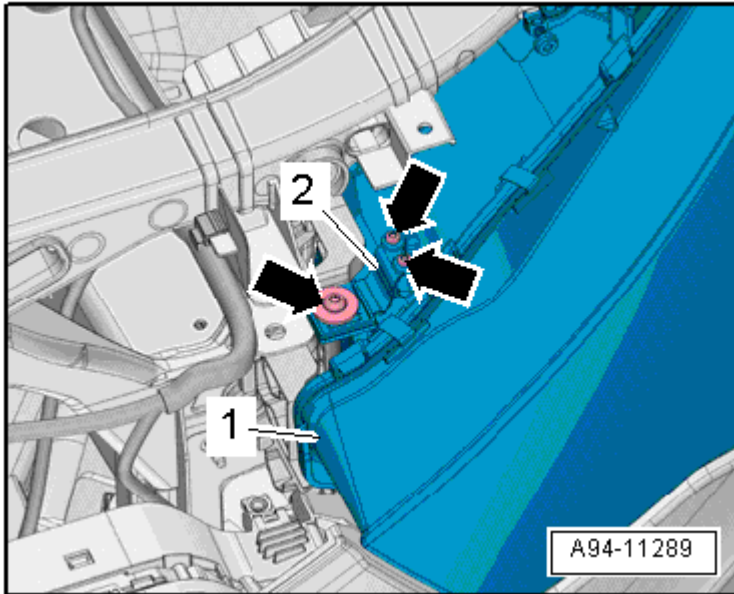
Install in reverse order of removal. Note the following:

- Make sure the seal -1- between the control module and the headlamp housing is not damaged.

-- Install the headlamp. Refer to **HEADLAMP**.

#### INNER HEADLAMP HOUSING BRACKET

##### Removing



**Fig. 134: Identifying Inner Headlamp Housing Bracket**  
Courtesy of AUDI OF AMERICA, LLC

-- Remove the lock carrier cover. Refer to **Removal and Installation** .

-- Remove the bolts -arrows-.

-- Remove the bracket -2- upward from the headlamp housing -1-.

##### Installing

- Tightening specification, refer to **HID HEADLAMPS OVERVIEW, FROM MY 2013**.

Install in reverse order of removal. Note the following:

-- Install the lock carrier cover. Refer to **Removal and Installation** .

#### LED PARKING LAMP/DAYTIME RUNNING LAMP MODULES -L176- / -L177-

The LED parking lamp/DRL modules are located on the headlamp housing and cannot be replaced separately in the event of a defect.

-- Replace the headlamp. Refer to **HEADLAMP**.

**LEFT AND RIGHT LOW BEAM HEADLAMP REFLECTOR MOTORS -V294- / -V295-**

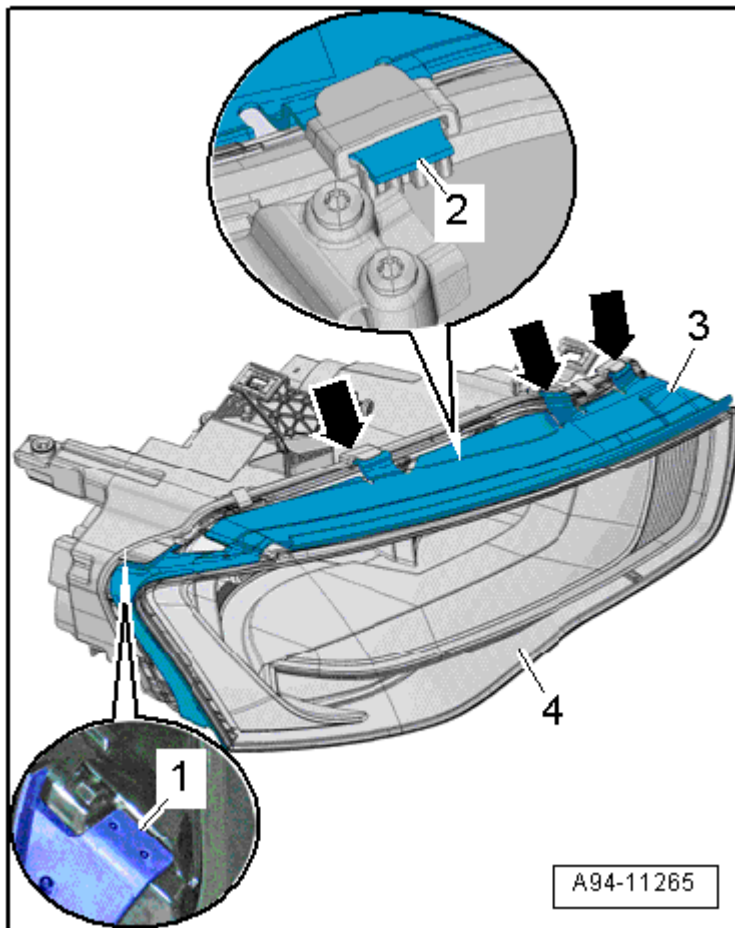
The lower beam cover sits in the headlamp housing and cannot be replaced separately if it is faulty.

-- Replace the headlamp. Refer to **HEADLAMP**.

**LEFT AND RIGHT ADAPTIVE CORNERING LAMP MOTOR V318/V319,**

The dynamic cornering light position motor sits in the headlamp housing and cannot be replaced separately if it is faulty.

-- Replace the headlamp. Refer to **HEADLAMP**.

**SEALING FRAME****Removing**

**Fig. 135: Identifying Sealing Frame**  
Courtesy of AUDI OF AMERICA, LLC

-- Remove the headlamp. Refer to **HEADLAMP**.

- Unbutton the sealing frame -3- from the under side -1- and sides of the headlamp housing -4-.
- Open the tab -2- -arrows- and remove the sealing frame.

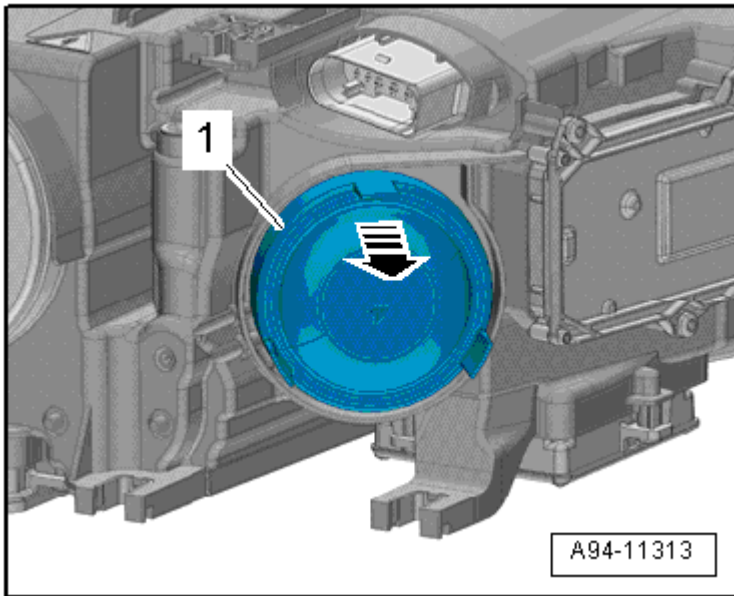
### Installing

Install in reverse order of removal. Note the following:

- Install the headlamp. Refer to **HEADLAMP**.

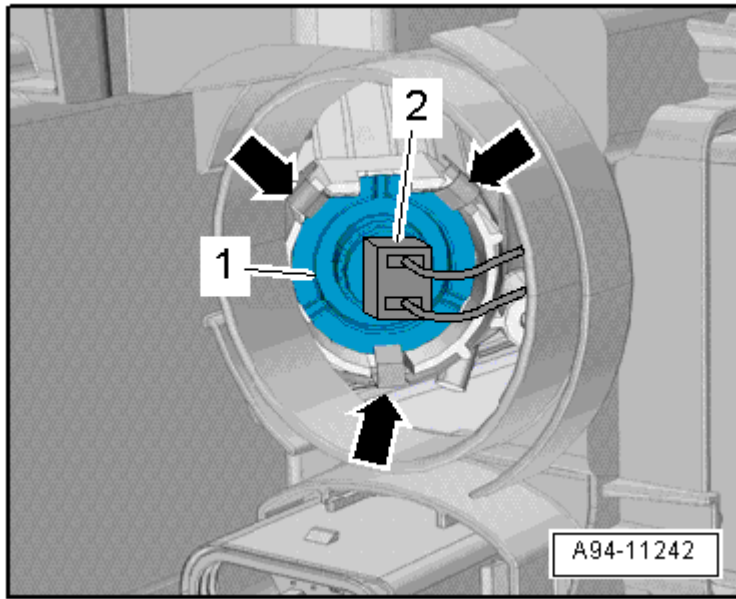
STATIC CORNERING LAMP BULB -M51- / -M52-

### Removing



**Fig. 136: Identifying Housing Cover**  
Courtesy of AUDI OF AMERICA, LLC

- Right side: remove the air filter housing. Refer to **[For engine(s) CALA] Removal and Installation** or refer to **[For engine(s) CAEB] Removal and Installation** or refer to **[For engine(s) CCBA] Removal and Installation** .
- Remove the housing cover -1- from the headlamp housing -arrow-.
- Remove the bulb -1- from the spring clips -arrows-.



**Fig. 137: Identifying Bulb To Spring Clips**  
Courtesy of AUDI OF AMERICA, LLC

-- Disconnect the connector -2- from the bulb.

### Installing

Install in reverse order of removal. Note the following:

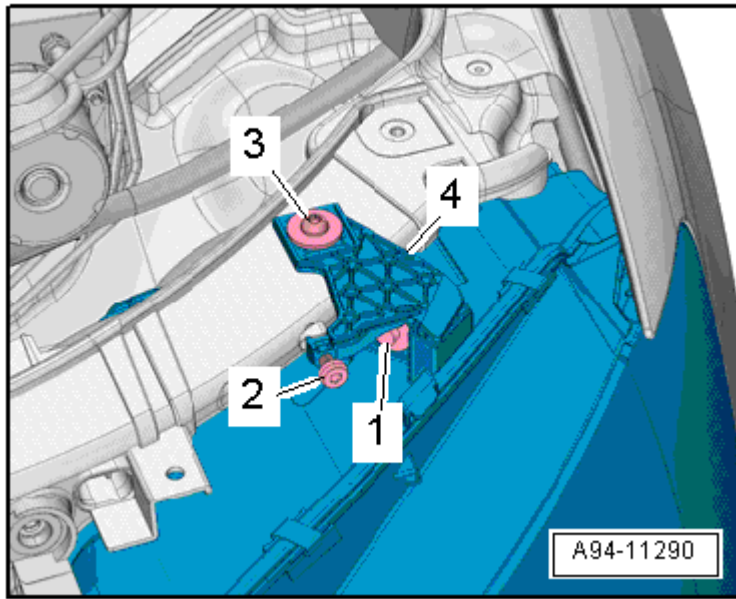
-- Push the new bulb past the resistance of the spring clips into the housing and connect the connector. This way the glass bulb is not touched with bare hands.

-- Close the housing cover.

-- Right side: install the air filter housing. Refer to [\[For engine\(s\) CALA\] Removal and Installation](#) or refer to [\[For engine\(s\) CAEB\] Removal and Installation](#) or refer to [\[For engine\(s\) CCBA\] Removal and Installation](#) .

### UPPER HEADLAMP HOUSING BRACKET

### Removing



**Fig. 138: Identifying Upper Headlamp Housing Bracket**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the bolts -2 and 3-.
- Remove the bolt -1- as far as possible.
- Remove the bracket -4- upward from the headlamp housing.
  - The bolt and the bracket can only be removed together.

#### Installing

- Tightening specification, refer to **HID HEADLAMPS OVERVIEW, FROM MY 2013.**

Install in reverse order.

#### PARKING AID

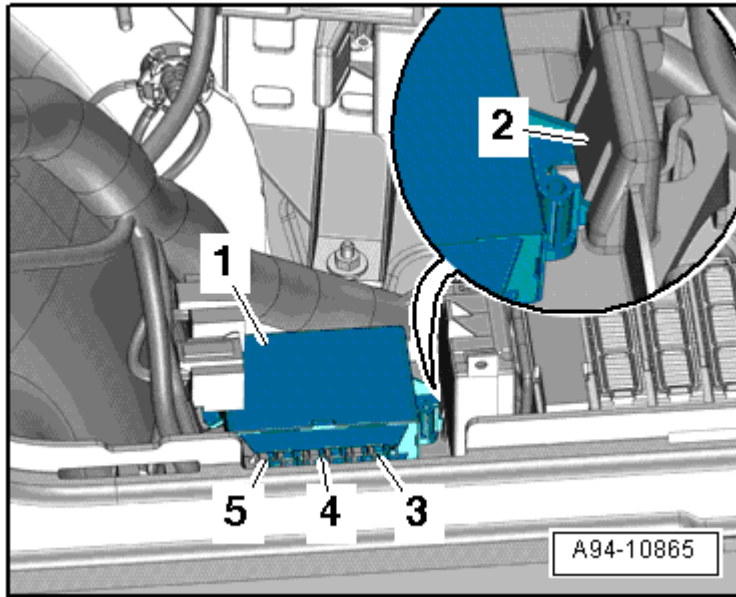
##### PARKING AID CONTROL MODULE -J446-, VEHICLES WITHOUT TRAILER HITCH

The parking aid control module is integrated in the vehicle electrical system control module -J519- depending on the date of manufacture from MY 2013 and cannot be replaced separately if defective.

-- Replace the vehicle electrical system control module. Refer to **VEHICLE ELECTRICAL SYSTEM CONTROL MODULE -J519-** .

-- If the control module was replaced, select the "Replace" function for the respective control module in "Guided Fault Finding" or "Guided Functions" using the Vehicle Diagnostic Tester.

## Removing



**Fig. 139: Opening Right Luggage Compartment Side Trim Cover**  
Courtesy of AUDI OF AMERICA, LLC

- Open the right luggage compartment side trim cover.
- Open the clip -2- and remove the park assist control module -J446- -1- from the frame.
- Disconnect electrical connectors -3 through 5-.

## Installing

Install in reverse order.

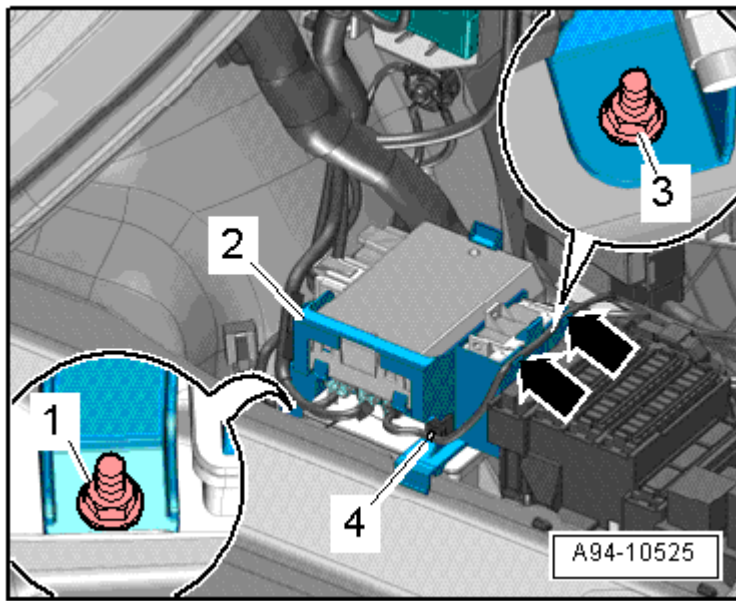
### PARKING AID CONTROL MODULE -J446-, VEHICLES WITH TRAILER HITCH

The parking aid control module is integrated in the vehicle electrical system control module -J519- depending on the date of manufacture from MY 2013 and cannot be replaced separately if defective.

- Replace the vehicle electrical system control module. Refer to **VEHICLE ELECTRICAL SYSTEM CONTROL MODULE -J519-** .

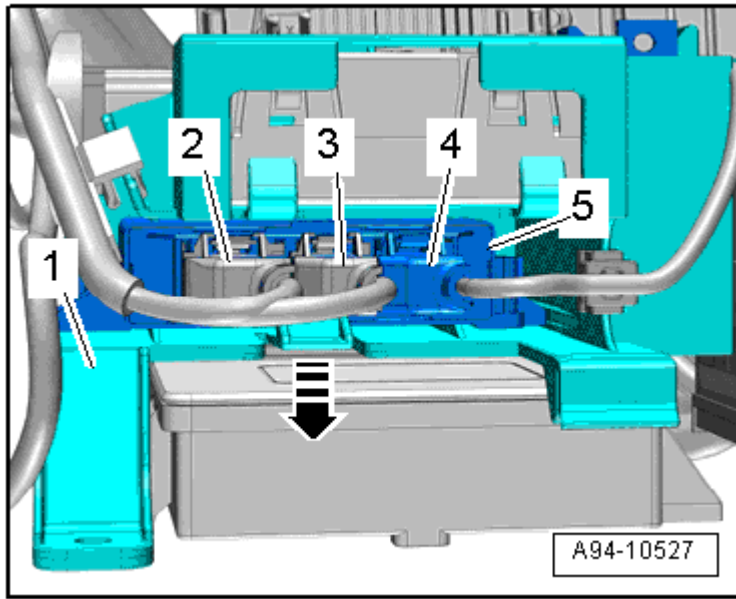
- If the control module was replaced, select the "Replace" function for the respective control module in "Guided Fault Finding" or "Guided Functions" using the Vehicle Diagnostic Tester.

## Removing



**Fig. 140: Opening Right Luggage Compartment Side Trim Cover**  
Courtesy of AUDI OF AMERICA, LLC

- Open the right luggage compartment side trim cover.
- Remove the nuts -1- and -3-.
- Disengage the electrical wire from the guides -arrows- on the retaining frame -2- and disconnect the cable tie -4-.
- Remove the retaining frame upward.
- Disconnect electrical connectors -2 through 4-.



**Fig. 141: Disconnecting Electrical Connectors**  
Courtesy of AUDI OF AMERICA, LLC

-- Release the retaining clip -arrow- and remove the parking aid control module -J446- -item 5- from the retaining frame -1-.

### Installing

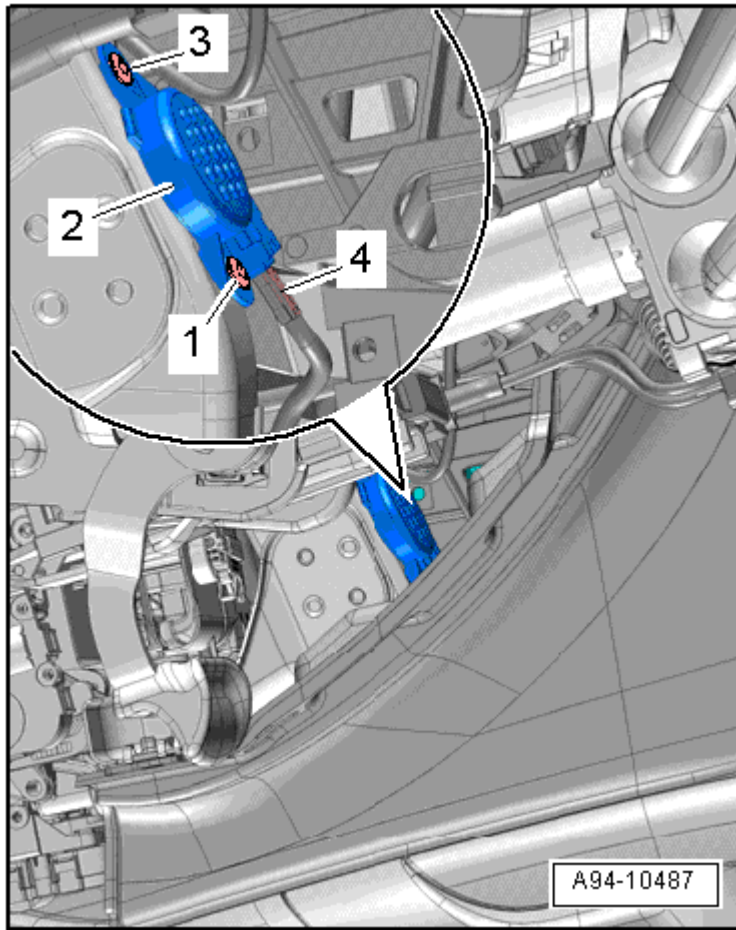
- Tightening specification, refer to **Parking Aid Control Module Frame Bolt Tightening Specifications.**

Install in reverse order of removal, observing the following:

**NOTE:** When installing, install the cable ties at the same location.

FRONT PARKING AID WARNING BUZZER -H22-, 8 CHANNEL PARKING AID

### Removing



**Fig. 142: Identifying Front Parking Aid Warning Buzzer**  
Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the ignition key.
- Remove the driver side instrument panel cover. Refer to **Removal and Installation** .
- Remove the bolts -1 and 3- and the front parking aid warning buzzer -H22- -item 2-.
- Disconnect the electrical connector -4-.

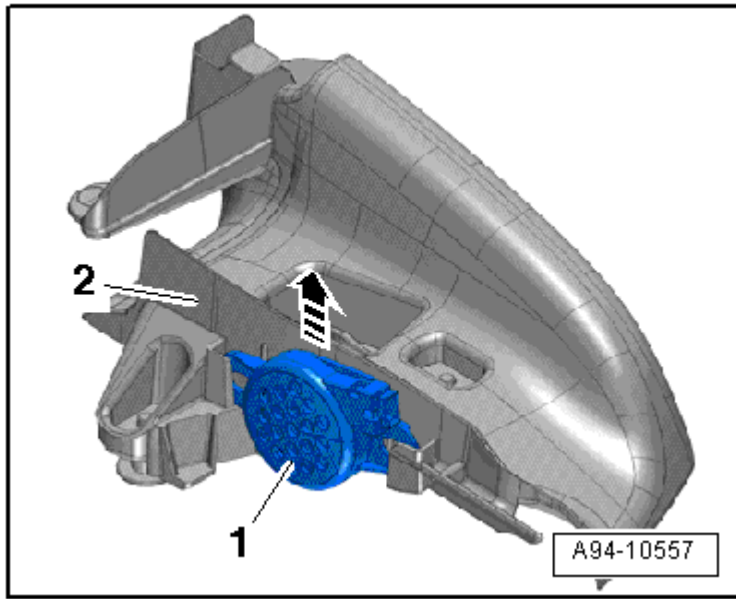
### **Installing**

Install in reverse order of removal, observing the following:

- Install the driver side instrument panel cover. Refer to **Removal and Installation** .

### **REAR PARKING AID WARNING BUZZER**

### **Removing**



**Fig. 143: Turning Off Ignition To Remove Ignition Key**  
Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the ignition key.
- Remove the right seat belt guide. Refer to **Removal and Installation** .
- Remove the rear parking aid warning buzzer -H15- -1- from the right seat belt guide -2- in the -direction of arrow-.

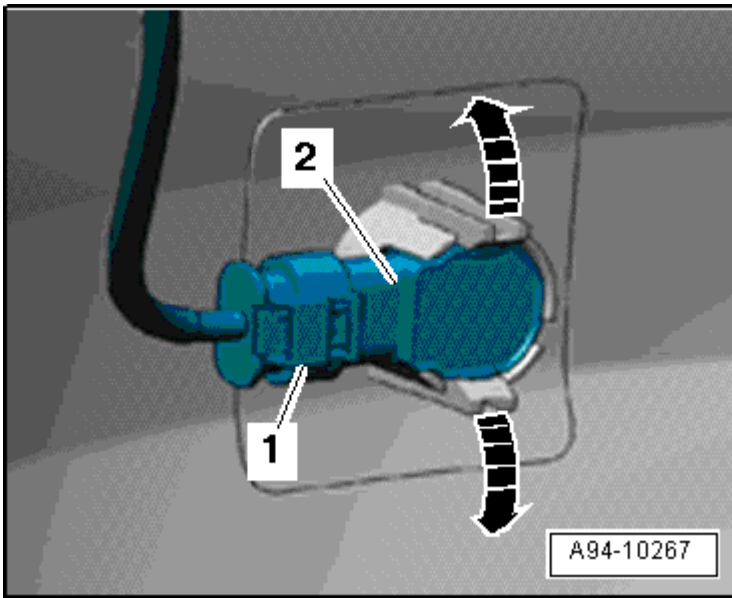
### Installing

Install in reverse order of removal, observing the following:

- Install the right seat belt guide. Refer to **Removal and Installation** .

**FRONT PARKING AID SENSORS, SEDAN AND AVANT, THROUGH MY 2012**

### Removing



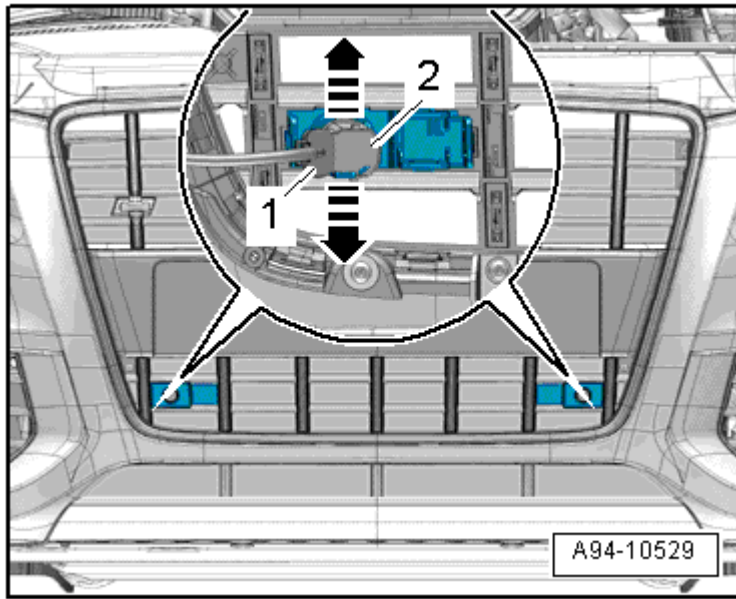
**Fig. 144: Identifying Sensor And Connector**  
Courtesy of AUDI OF AMERICA, LLC

#### Outer Sensor

- Remove the front wheel housing liner. Refer to **Removal and Installation** .
- Press both retainer tabs to the side -arrows- and press the sensor -2- through from the outside towards the inside.
- Disconnect the electrical connector -1- on the sensor.

**NOTE:** It is necessary to remove the front bumper if the left front sensor cannot be removed as described, depending on the vehicle equipment. Refer to **Removal and Installation** .

#### Inner Sensor



**Fig. 145: Identifying Retaining Tabs For Inner Sensor**  
Courtesy of AUDI OF AMERICA, LLC

-- Reach through the opening in the radiator grille behind the mounts and press both retaining tabs to the side - arrows- while pressing the sensor -2- through from the outside to the inside.

-- Disconnect the electrical connector -1- from the sensor.

### Installing

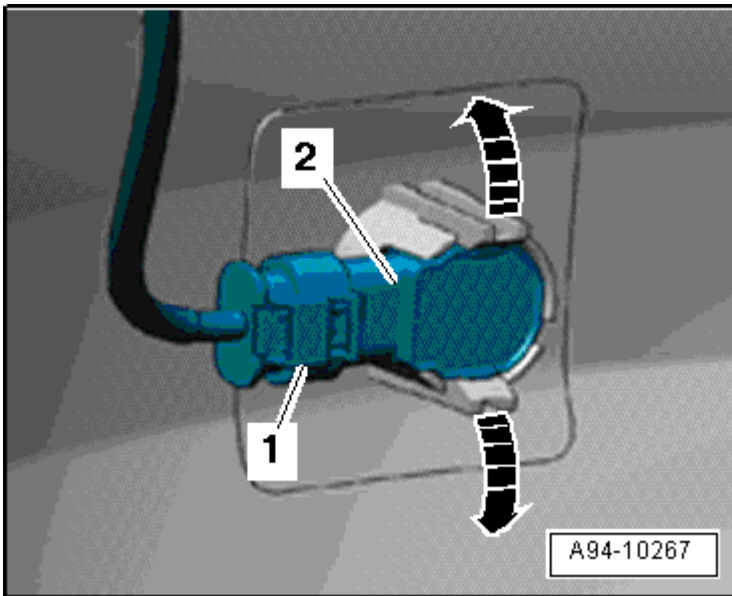
Install in reverse order of removal, observing the following:

### Outer Sensor

-- Install the front wheel housing liner. Refer to **Removal and Installation** .

**FRONT PARKING AID SENSOR, SEDAN AND AVANT, FROM MY 2013**

### Removing



**Fig. 146: Identifying Sensor And Connector**  
Courtesy of AUDI OF AMERICA, LLC

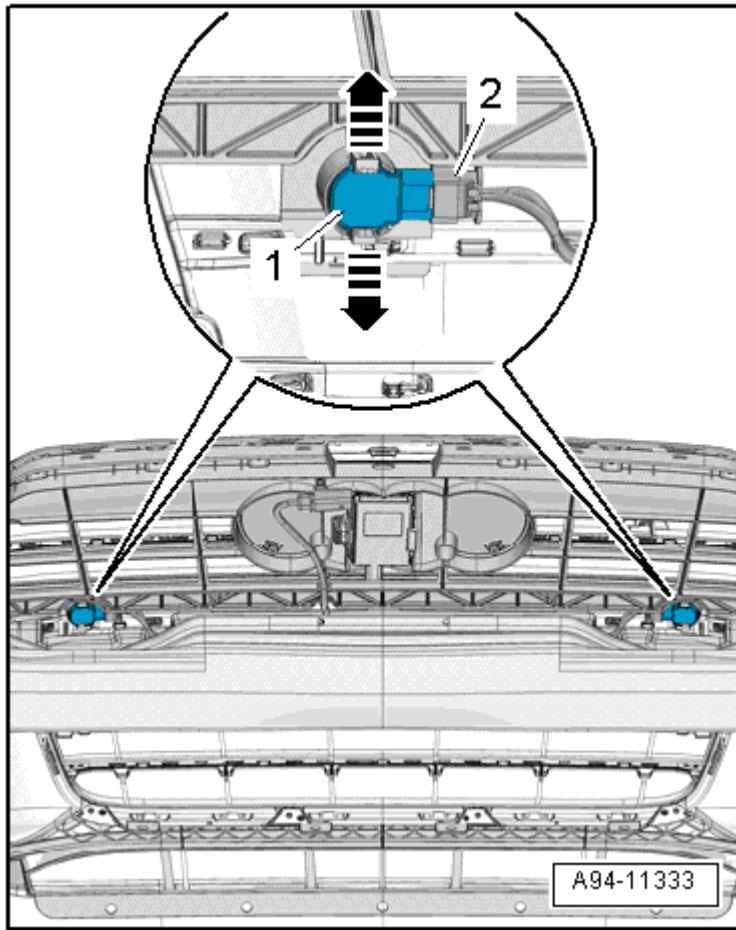
Outer sensor

-- Remove the headlamp housing: Halogen headlamp, refer to **HEADLAMP**, HID headlamp, refer to **HEADLAMP**.

-- Press both retainer tabs to the side -arrows- and press the sensor -2- through from the outside towards the inside.

-- Disconnect the connector -1- from the sensor.

Inner sensor



**Fig. 147: Disconnecting Connector**

Courtesy of AUDI OF AMERICA, LLC

-- Remove the lock carrier cover. Refer to **Removal and Installation** .

-- Reach through the openings in the radiator grille behind the mounts and press both retaining tabs to the side - arrows- while pressing the sensor -1- through from the outside to the inside.

-- Disconnect the connector -2- from the sensor.

### Installing

Install in reverse order of removal. Note the following:

Outer sensor

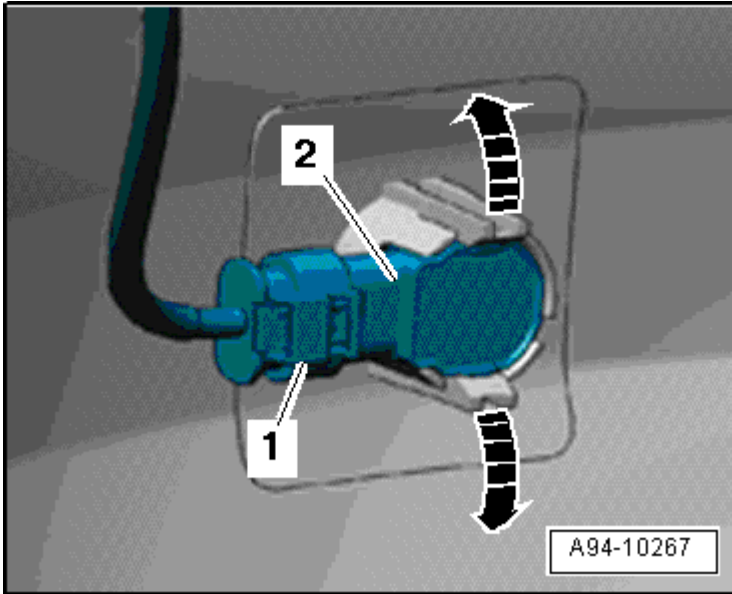
-- Remove the headlamp housing: Halogen headlamp, refer to **HEADLAMP**, HID headlamp, refer to **HEADLAMP**.

Inner sensor

-- Install the lock carrier cover. Refer to **Removal and Installation** .

#### FRONT PARKING AID SENSORS, ALLROAD

##### Removing



**Fig. 148: Identifying Sensor And Connector**  
Courtesy of AUDI OF AMERICA, LLC

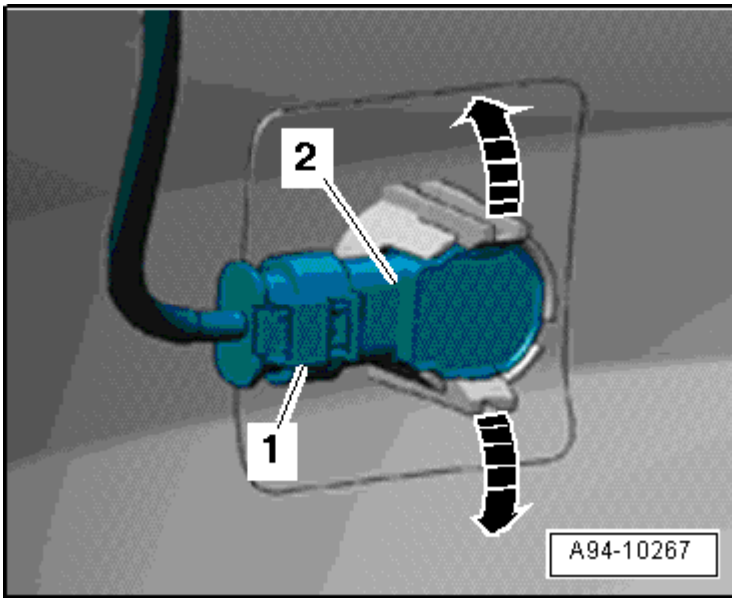
##### Outer sensor

-- Remove the front wheel housing liner. Refer to **Removal and Installation** .

-- Press both retainer tabs to the side -arrows- and press the sensor -2- through from the outside towards the inside.

-- Disconnect the connector -1- from the sensor.

##### Inner sensor



**Fig. 149: Identifying Sensor And Connector**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the air intake grille. Refer to **Removal and Installation** .
- Reach through the opening for the air intake grille and press both retaining tabs to the side -arrows- while pressing the sensor -2- through from the outside to the inside.
- Disconnect the connector -1- from the sensor.

### Installing

Install in reverse order of removal. Note the following:

Outer sensors

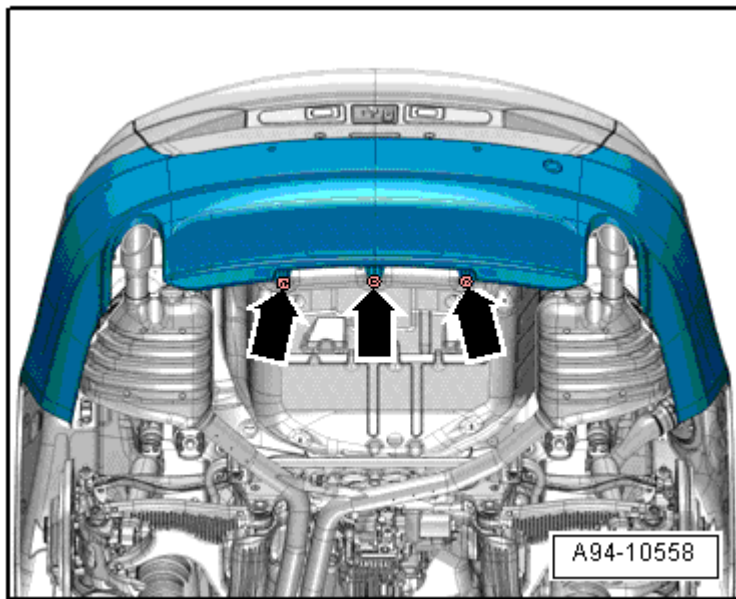
- Install the front wheel housing liner. Refer to **Removal and Installation** .

Inner sensor

- Install the air intake grille. Refer to **Removal and Installation** .

### REAR PARKING AID SENSORS

### Removing

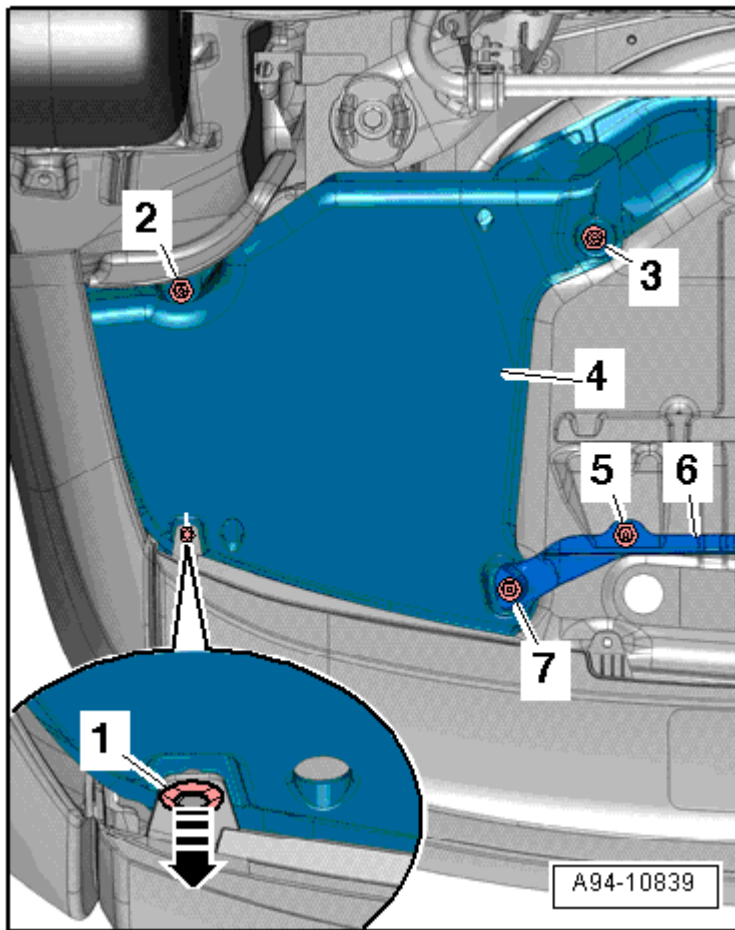


**Fig. 150: Identifying Rear Parking Aid Sensors**  
Courtesy of AUDI OF AMERICA, LLC

Outer Sensor

-- Remove the bolts -arrows- on the bottom side of the bumper cover.

Vehicles with a Rear Muffler



**Fig. 151: Identifying Rear Bumper Cover**

Courtesy of AUDI OF AMERICA, LLC

- Remove the nuts -5 and 7- and remove the retaining pin -6-.
- Remove the pin -arrow- and expanding clip -1-.
- Remove the nuts -2 and 3- and remove the rear aerodynamic underbody trim panel -4-.

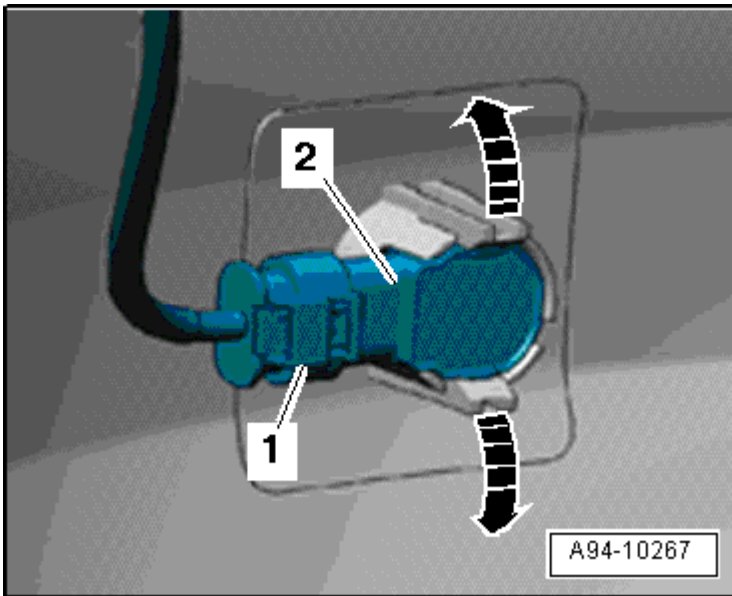
Continuation for All Sensors

- Reach behind the bumper cover from below.

Inner Sensor - Sedan

- Remove the rear bumper cover. Refer to **Removal and Installation** .

Continuation for All Sensors



**Fig. 152: Identifying Sensor And Connector**  
Courtesy of AUDI OF AMERICA, LLC

- Press both retainer tabs to side -arrows- and press the sensor -2- from outside towards inside.
- Disconnect the electrical connector -1- from the sensor.

### **Installing**

Install in reverse order of removal, observing the following:

Inner Sensor - Sedan

- Install the cover on the rear bumper. Refer to **Removal and Installation** .

Vehicles with Lane Change Assist

If the bumper cover was removed, the lane change assistance control module must be calibrated again. Refer to **LANE CHANGE ASSISTANCE, PREPARING FOR CALIBRATION** .

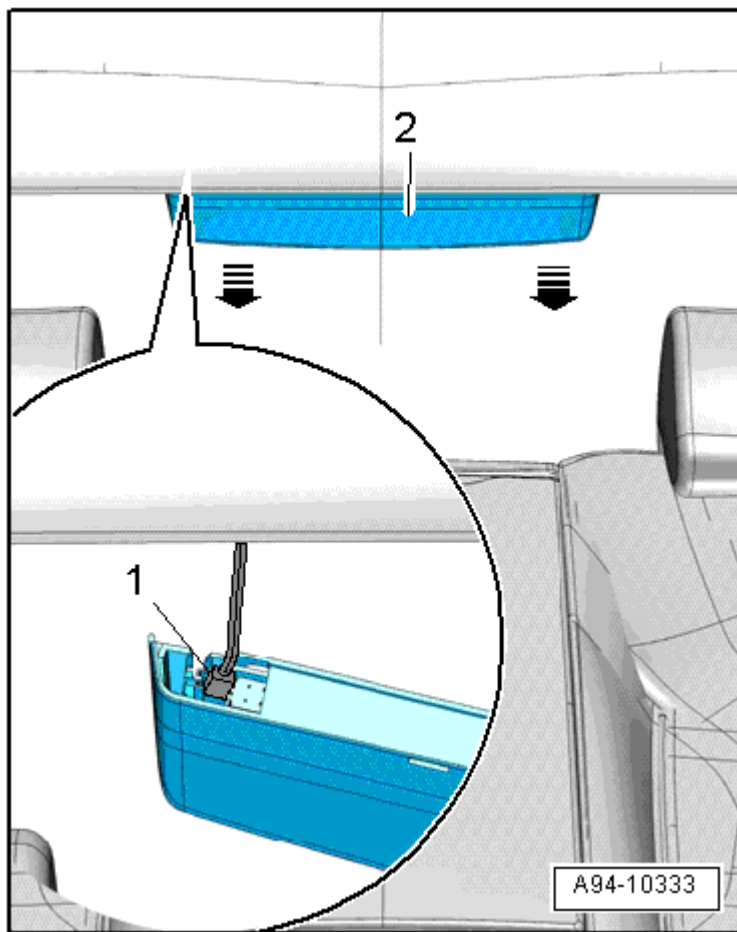
Outer Sensor

- Install the lower section of the bumper cover. Refer to **Removal and Installation** .

**REAR EXTERIOR LAMPS**

**HIGH MOUNTED BRAKE LAMP**

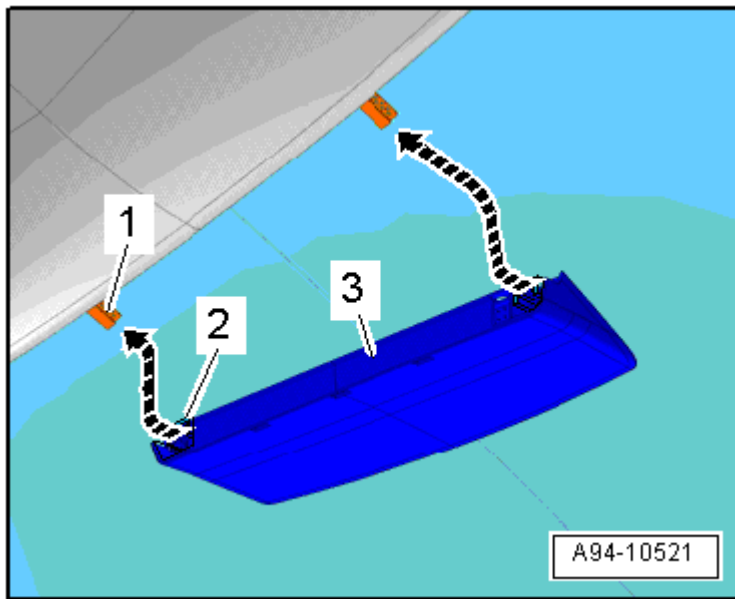
### **Removing**



**Fig. 153: Disconnect Electrical Connector**  
Courtesy of AUDI OF AMERICA, LLC

- Do not press the brake pedal.
- Pull the high mount brake lamp -2- back evenly by the cover -arrows-.
- Disconnect the electrical connector -1-.

### Installing



**Fig. 154: Connecting Electrical Connector**  
Courtesy of AUDI OF AMERICA, LLC

Install in reverse order of removal, observing the following:

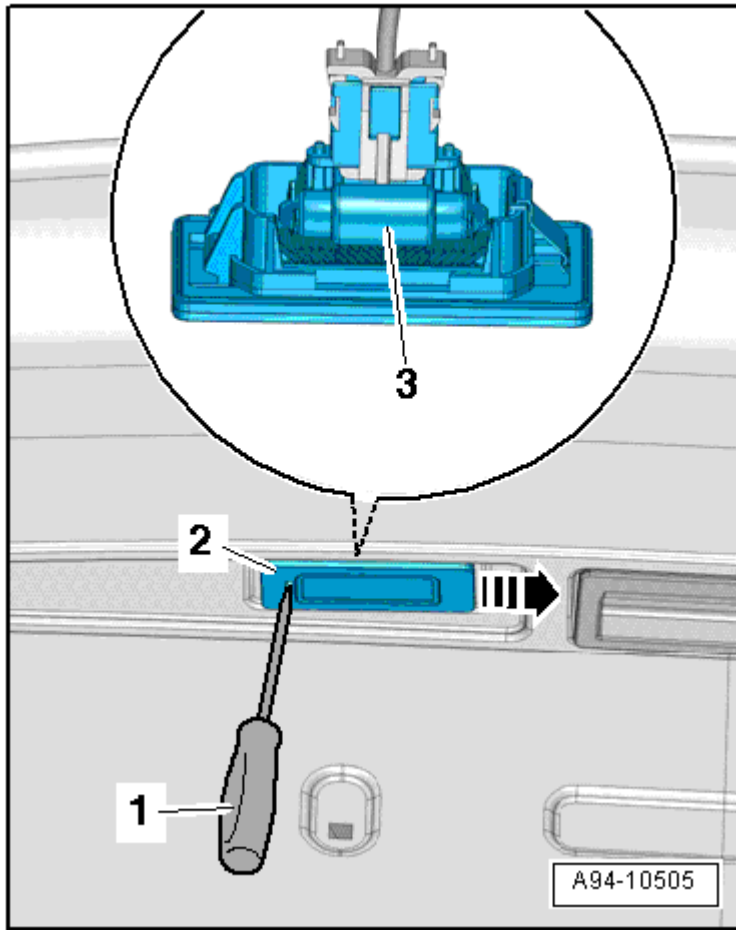
**NOTE:** Entire high mounted brake lamp must be replaced in the event of faulty Light Emitting Diodes (LEDs).

-- The mount -2- for the high mount brake lamp -3- must engage evenly at the left and right in the guide rails -1-.

-- Slide the high mount brake lamp forward -arrows- evenly without tilting it until it engages audibly.

#### LICENSE PLATE LAMP BULB

#### Removing



**Fig. 155: Identifying License Plate Lamp Bulb**

Courtesy of AUDI OF AMERICA, LLC

-- Turn the light switch to the "0" position.

-- Remove the license plate lamp -2- from the rear lid by positioning a screwdriver -1- at the slit and sliding it in the -direction of the arrow-.

-- Remove the bulb -3- from the socket.

### Installing

Install in reverse order of removal. Note the following:

**NOTE:** If LED's are malfunctioning, license plate lamp must be completely replaced.

### STEERING COLUMN SWITCH MODULE AND ELECTRONIC IGNITION SWITCH

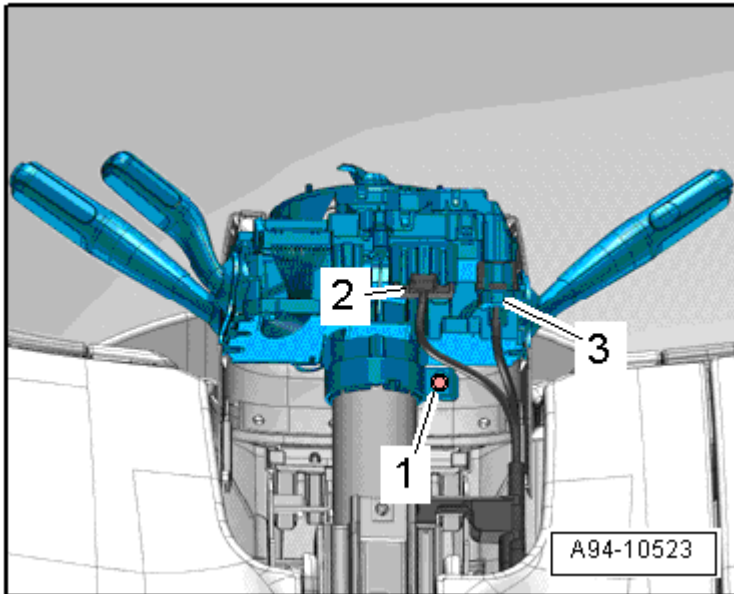
- The steering column switch module consists of the coil connector with slip ring, steering angle sensor - G85-, steering column switch (turn signal indicator switch, wiper switch, cruise control switch) and steering column electronic systems control module -J527-.

- Fault finding is done in "Guided Fault Finding". Refer to the vehicle diagnosis, testing and information system VAS 5051.

## STEERING COLUMN SWITCH MODULE

### Removing

- Adjust the steering wheel downward and to the rear as far as possible, use the entire adjustment range of the steering column adjustment for this.
- Remove the driver airbag. Refer to **Removal and Installation** .
- Remove the steering wheel. Refer to **Removal and Installation** .
- Remove the steering column trim. Refer to **Removal and Installation** .
- Remove the bolt -1-.

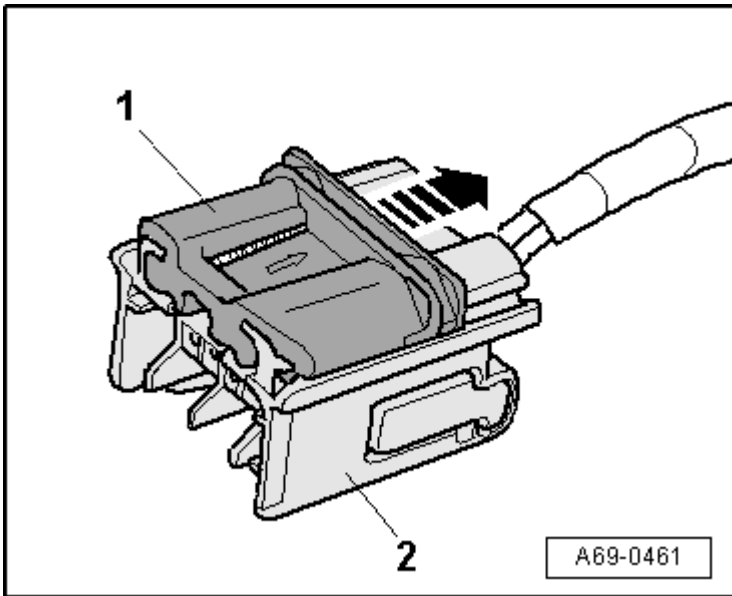


**Fig. 156: Identifying Connectors -2- And -3-**  
Courtesy of AUDI OF AMERICA, LLC

- Disconnect the electrical connector -2-.

**WARNING:** The technician must discharge static electricity before disconnecting the electrical connector -3-, for example by touching the door striker pin.

- Disconnect the electrical connector -3-.
- Press the catch -1- in the -direction of the arrow- until the harness connector -2- disengages.



**Fig. 157: Disengage Connector Lock To Release Connector**  
Courtesy of AUDI OF AMERICA, LLC

-- Carefully remove the steering column switch module.

### Installing

- Tightening specification, refer to **STEERING COLUMN SWITCH MODULE AND ELECTRONIC IGNITION LOCK OVERVIEW**.

Install in reverse order of removal, observing the following:

- Install the steering column trim. Refer to **Removal and Installation** .
- Install the steering wheel. Refer to **Removal and Installation** .
- Install the driver airbag. Refer to **Removal and Installation** .

### STEERING COLUMN ELECTRONIC SYSTEMS CONTROL MODULE -J527-

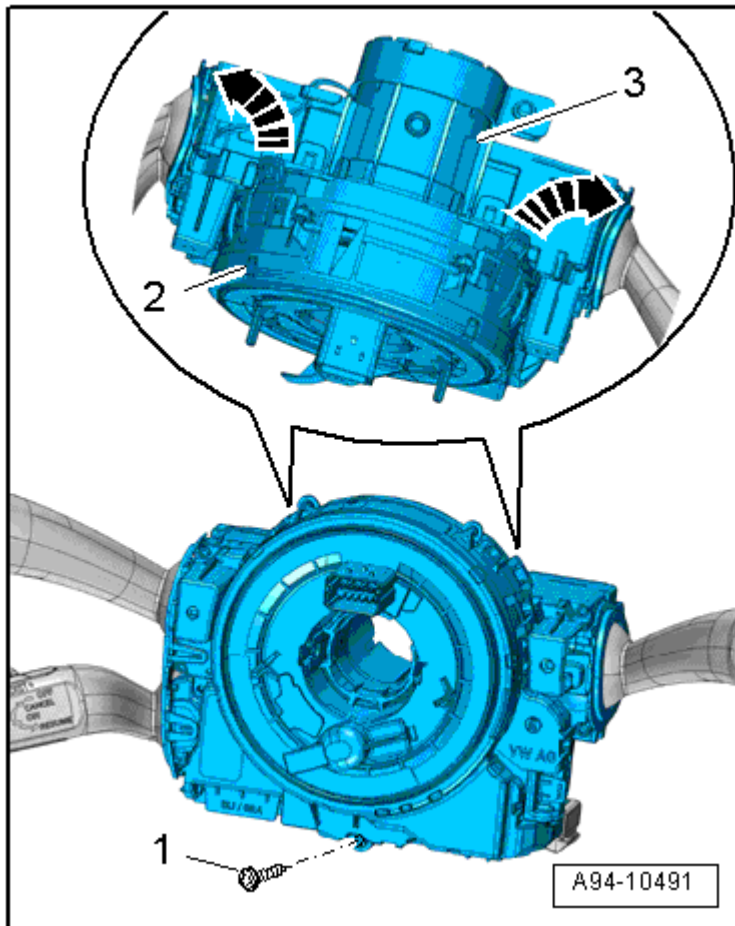
The airbag spiral spring/return spring with slip ring -F138- and the steering angle sensor -G85- are integrated in the steering column electronic systems control module -J527-.

-- If the control module was replaced, select the "Replace" function for the respective control module in "Guided Fault Finding" or "Guided Functions" using the Vehicle Diagnostic Tester.

### Removing

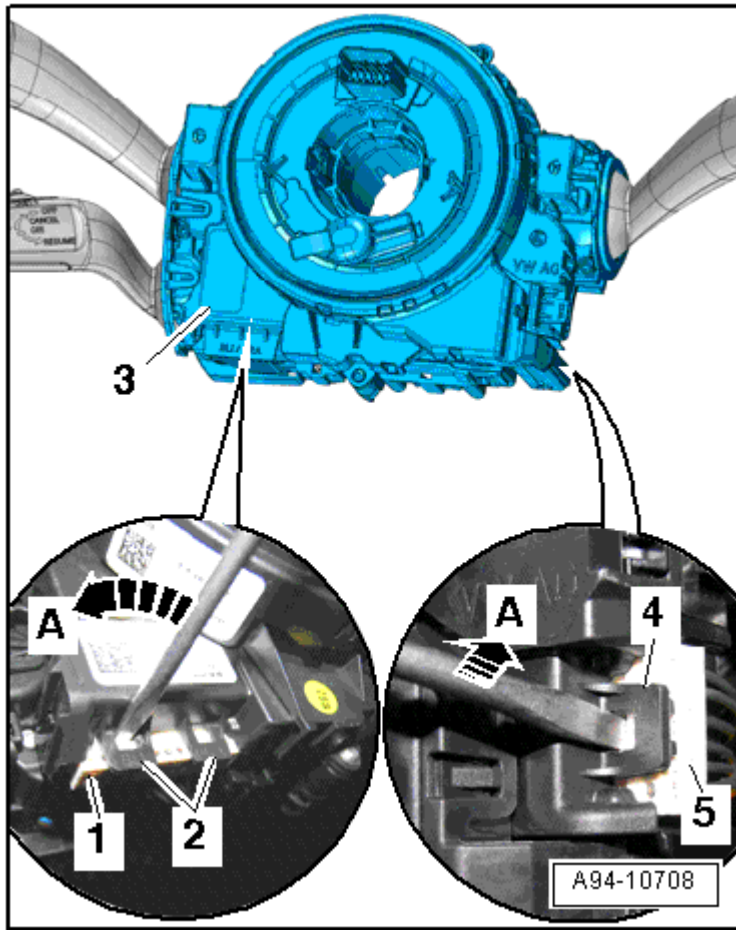
**NOTE:**      **The steering wheel must be centered (wheels in straight ahead position) when removing and installing the coil connector with slip ring.**

- Adjust the steering wheel downward and to the rear as far as possible, use the entire adjustment range of the steering column adjustment for this.
- Remove the driver airbag. Refer to **Removal and Installation** .
- Remove the steering wheel. Refer to **Removal and Installation** .
- Remove the steering column trim. Refer to **Removal and Installation** .
- Remove the bolt -1-.



**Fig. 158: Identifying Bolt -1-**  
Courtesy of AUDI OF AMERICA, LLC

- Release the retaining hooks -arrows- carefully and remove the airbag spiral spring/return spring with slip ring -item 2- from the steering column switch module -3-.
- Release the electrical connectors on the airbag spiral spring/return spring with slip ring -item 3- by positioning the screwdriver at the retaining hooks -2 and 4- as illustrated and carefully releasing the connectors -1 and 5- in the -direction of arrow A-.



**Fig. 159: Disconnecting Connectors From Steering Column Electronics Control Module -3-**  
 Courtesy of AUDI OF AMERICA, LLC

-- Remove the airbag spiral spring/return spring with slip ring on the steering column switch module.

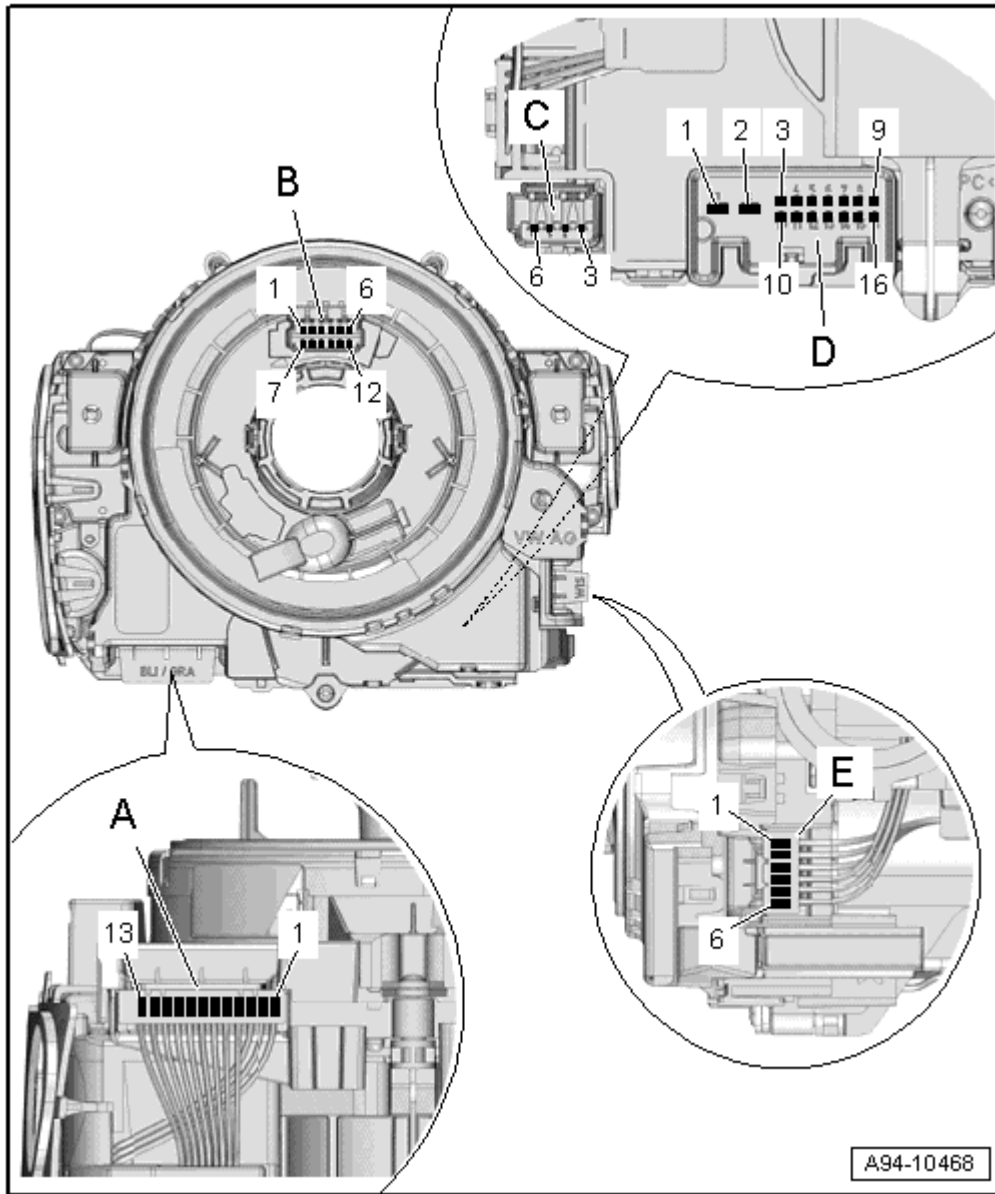
### Installing

Install in reverse order of removal, observing the following:

- Make sure all retaining hooks and connectors are engaged securely.
- Install the steering column trim. Refer to **Removal and Installation** .
- Install the steering wheel. Refer to **Removal and Installation** .
- Install the driver airbag. Refer to **Removal and Installation** .
- The steering angle sensor must be adapted in "Guided Fault Finding" or "Guided Functions" after replacing the airbag spiral spring/return spring with slip ring. Refer to the Vehicle Diagnostic Tester.

### STEERING COLUMN ELECTRONIC SYSTEMS CONTROL MODULE CONNECTOR ASSIGNMENT

- The steering column electronic systems control module -J527- is part of the complete system "steering column switch module". and receives signals from steering column switch, for example.
- Check the steering column electronic systems control module in "Guided Fault Finding". Refer to the vehicle diagnosis, testing and information system VAS 5051.



**Fig. 160: Identifying Steering Column Electronic Systems Control Module**  
 Courtesy of AUDI OF AMERICA, LLC

1. A - Connector, Turn Signal Switch/ Cruise Control
  - 1 - Cruise control lever ground
  - 2 - Cruise control set

- 3 - ACC
  - 4 - Cruise control Res ("+)/Set ("-")
  - 5 - Voltage supply (terminal 15)
  - 6 - Cruise control ground/turn signal switch
  - 7 - Cruise control "off"
  - 8 - Cruise control Res/Soft
  - 9 - Radio (AIA)
  - 10 - Headlamp flasher
  - 11 - High beams
  - 12 - Turn signal switch
  - 13 - Ground, turn signal switch
2. B - Connector, Spiral Spring/Airbag/Multifunction Steering Wheel/Signal Horn
- 1 - Ground (GND)
  - 2 - Horn signal
  - 3 - Airbag 1 "+"
  - 4 - Airbag 1 "-"
  - 5 - Airbag 2 "+"
  - 6 - Airbag 2 "-"
  - 7 - Tip down
  - 8 - Terminal 30
  - 9 - LIN
  - 10 - Tip up
  - 11 - Dimming (terminal 58s)
  - 12 Tip ground

**3. C - Connector, Airbag Control Module**

3 - Airbag 1 "-"

4 - Airbag 1 "+"

5 - Airbag 2 "+"

6 - Airbag 2 "-"

**4. D - Connector, Electrical System**

1 - Not used

2 - Not used

3 - Voltage supply terminal 30

4 - Powertrain Controller Area Network (CAN) bus shielding

5 - Cruise control latched Off

6 - Not used

7 - Radio/radio button

8 - Comfort CAN bus Low

9 - Comfort CAN bus High

10 - Voltage supply terminal 31

11 - Powertrain CAN bus High

12 - Powertrain CAN bus Low

13 - Signal, electronic ignition switch, terminal 15

14 - Not used

15 - Not used

16 - Not used

**5. E - Connector, Wiper System/DIS**

1 - Windshield washer ground

- 2 - Windshield wiper switch
- 3 - Wash
- 4 - DIS signal
- 5 - Intermittent wipe potentiometer
- 6 - DIS ground

**TURN SIGNAL, CRUISE CONTROL, WINDSHIELD WIPER AND WASHER INTERMITTENT SWITCH****Removing**

- Remove the steering column switch module. Refer to **STEERING COLUMN SWITCH MODULE**.
- Remove the steering column electronic systems control module -J527-. Refer to **STEERING COLUMN ELECTRONIC SYSTEMS CONTROL MODULE -J527-**.
- Remove the turn signal switch -E2-, cruise control switch -E45- and windshield wiper/washer switch -E22-.

**Installing**

Install in reverse order of removal, observing the following:

- Install the steering column electronic systems control module. Refer to **STEERING COLUMN ELECTRONIC SYSTEMS CONTROL MODULE -J527-**.
- Install the steering column switch module. Refer to **STEERING COLUMN SWITCH MODULE**.

**ACCESS/START AUTHORIZATION SWITCH**

**NOTE:** Induction coil for immobilizer is secured to the access/start authorization switch -E415- and cannot be replaced separately.

If induction coil is malfunctioning, the access/start authorization switch must be replaced.

The immobilizer does not need to be adapted if the access/start authorization switch is replaced.

The lock in the access/start authorization switch is not coded mechanically.

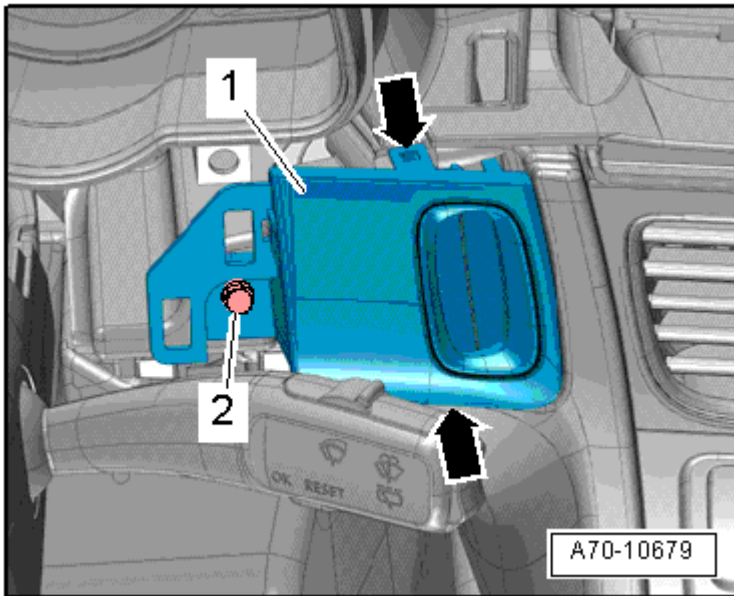
The keys must therefore not be replaced when the access/start authorization switch is replaced; present keys continue to match.

Special tools and workshop equipment required

- Special Pliers VAS 6339

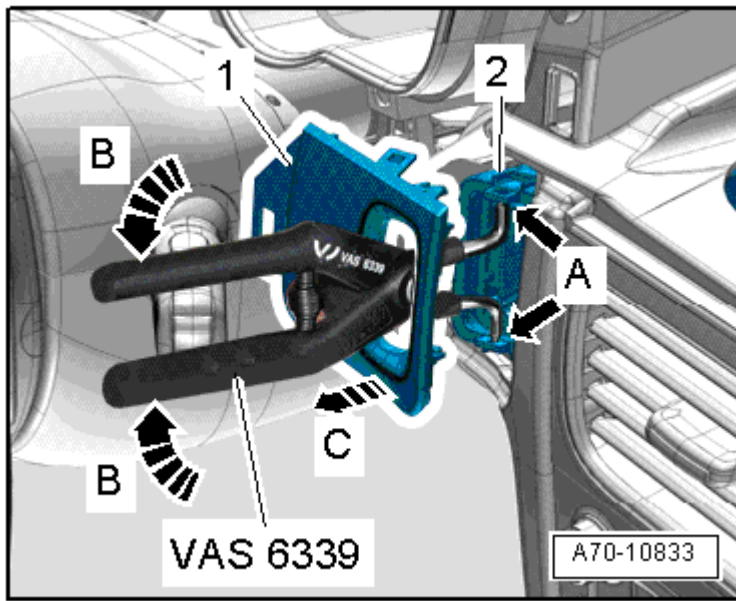
### Removing

- Remove the driver side instrument panel cover. Refer to **Removal and Installation** .
- Remove the right impact bar. Refer to **Removal and Installation** .
- Remove the Multi Media Interface (MMI) screen cover. Refer to **Removal and Installation** .
- Remove the instrument cluster gap cover. Refer to **Removal and Installation** .
- Remove the bolt -2- for the trim -1-.



**Fig. 161: Identifying Panel (1) And Screw (2)**  
Courtesy of AUDI OF AMERICA, LLC

- Insert the VAS 6339 through the trim flaps.

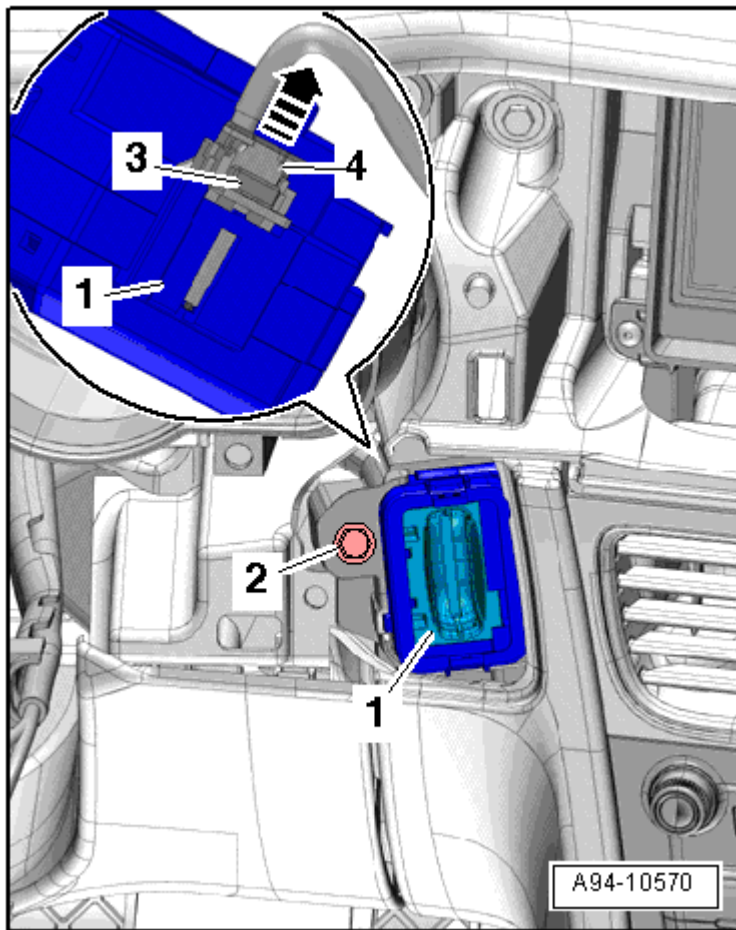


**Fig. 162: Inserting VAS 6339 Through Trim Covers**  
Courtesy of AUDI OF AMERICA, LLC

- Position the tips of the VAS 6339 on both holes -A arrows- on the access/start authorization switch -2-.
- Press the VAS 6339 together -B arrows- to spread the tips of the pliers and release the trim retaining tabs.
- Hold the VAS 6339 pressed with one hand and remove the trim -1- with the other hand -arrow C-.

**NOTE:** Only use the VAS 6339 to release the trim. Remove the trim by hand.

- Remove the bolt -2-.



**Fig. 163: Identifying Access/Start Authorization Switch**  
Courtesy of AUDI OF AMERICA, LLC

-- Remove the access/start authorization switch -1- forward toward the driver footwell and out of the instrument panel.

-- Disconnect the connector -3- by sliding the retainer -4- up -arrow- and pressing the release.

### Installing

- Tightening specification, refer to **STEERING COLUMN SWITCH MODULE AND ELECTRONIC IGNITION LOCK OVERVIEW**.

Install in reverse order of removal, observing the following:

-- Install the instrument cluster gap cover. Refer to **Removal and Installation** .

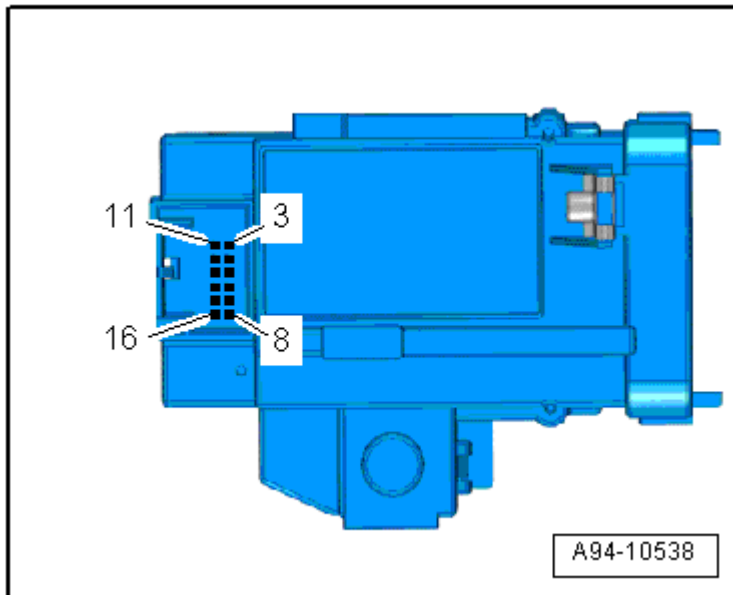
-- Install the MMI screen cover. Refer to **Removal and Installation** .

-- Install the right impact bar. Refer to **Removal and Installation** .

-- Install the driver side instrument panel cover. Refer to **Removal and Installation** .

#### ACCESS/START AUTHORIZATION SWITCH CONNECTOR ASSIGNMENT

##### Connector



**Fig. 164: Identifying Authorization Switch Connector**  
Courtesy of AUDI OF AMERICA, LLC

- 3 - Not used
- 4 - Not used
- 5 - S-contact
- 6 - Terminal 15
- 7 - LIN
- 8 - Terminal 30
- 9 - Not used
- 10 - Not used
- 11 - Not used
- 12 - Not used
- 13 - RED2, terminal 15

14 - RED, terminal 15

15 - Ignition/starter switch +

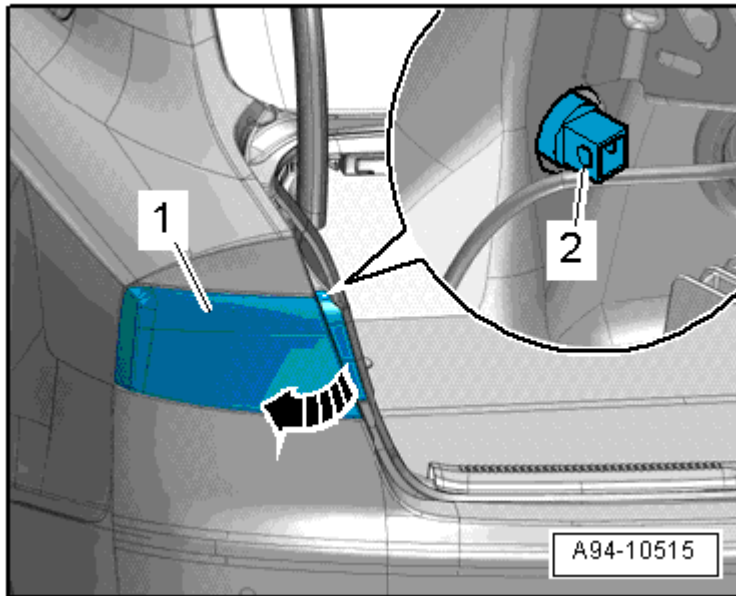
16 - Terminal 31

### TAIL LAMPS

Observe the notes on contact corrosion. Refer to **CONTACT CORROSION**.

### OUTER TAIL LAMP

#### Removing



**Fig. 165: Identifying Outer Tail Lamps**  
Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the ignition key.
- Turn the light switch to the "0" position.
- Open the luggage compartment side trim cover.
- Remove the threaded pins -2-.
- Pivot the tail lamp -1- outward -arrow- and disengage the retaining pins from the body.
- Disconnect the electrical connector.

#### Installing

- Tightening specification, refer to **OUTER TAIL LAMP**.

Install in reverse order of removal, observing the following:

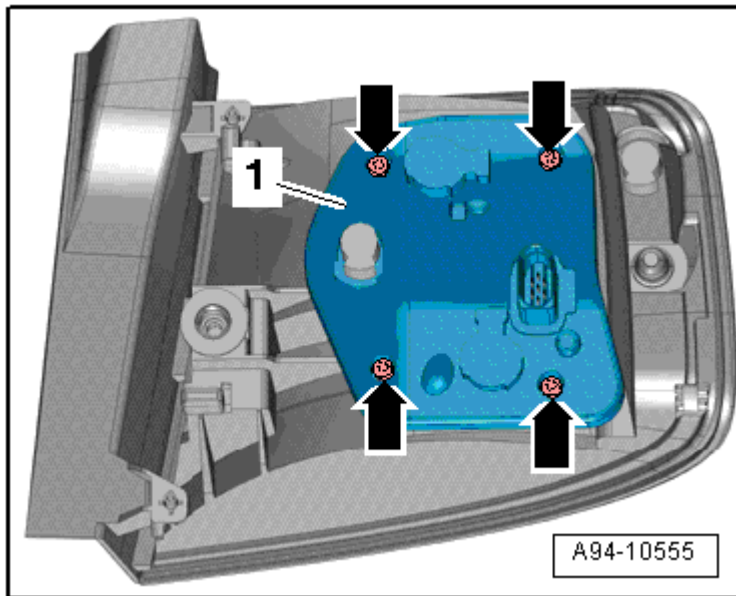
**NOTE:**        **The self-adhesive seal on the tail lamp must seal correctly.**

-- Position the tail lamp on the body and press the retaining pins into the hole.

-- Tighten the threaded pins -2-.

#### OUTER TAIL LAMP BULB

#### Removing



**Fig. 166: Identifying Outer Tail Lamp Bulb And Screws**  
Courtesy of AUDI OF AMERICA, LLC

-- Remove the outer tail lamp. Refer to **OUTER TAIL LAMP**.

-- Remove the screws -arrows-.

-- Remove the bulb socket -1- from the tail lamp.

-- Remove the bulbs from the bulb socket.

#### Installing

Install in reverse order of removal, observing the following:

-- Insert the new bulb into the socket without touching the bulb with bare hands.

-- Install the outer tail lamp. Refer to **OUTER TAIL LAMP**.

#### REAR SIDE MARKER LAMP

The rear side marker lamps are Light Emitting Diodes (LEDs) and are integrated in the outer tail lamps. LEDs cannot be replaced. The entire outer tail lamp must be replaced.

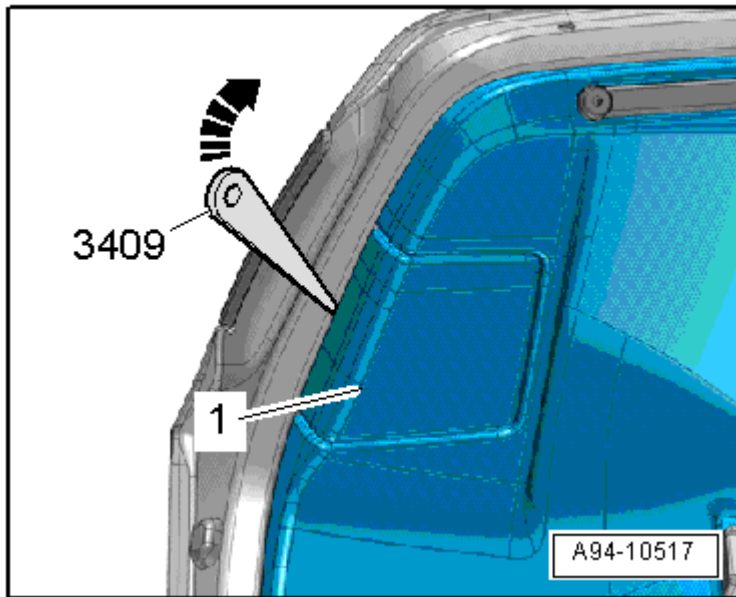
-- Outer tail lamp removing and installing. Refer to **OUTER TAIL LAMP**.

#### INNER TAIL LAMP

#### Special tools and workshop equipment required

- Trim Removal Wedge 3409

#### Removing



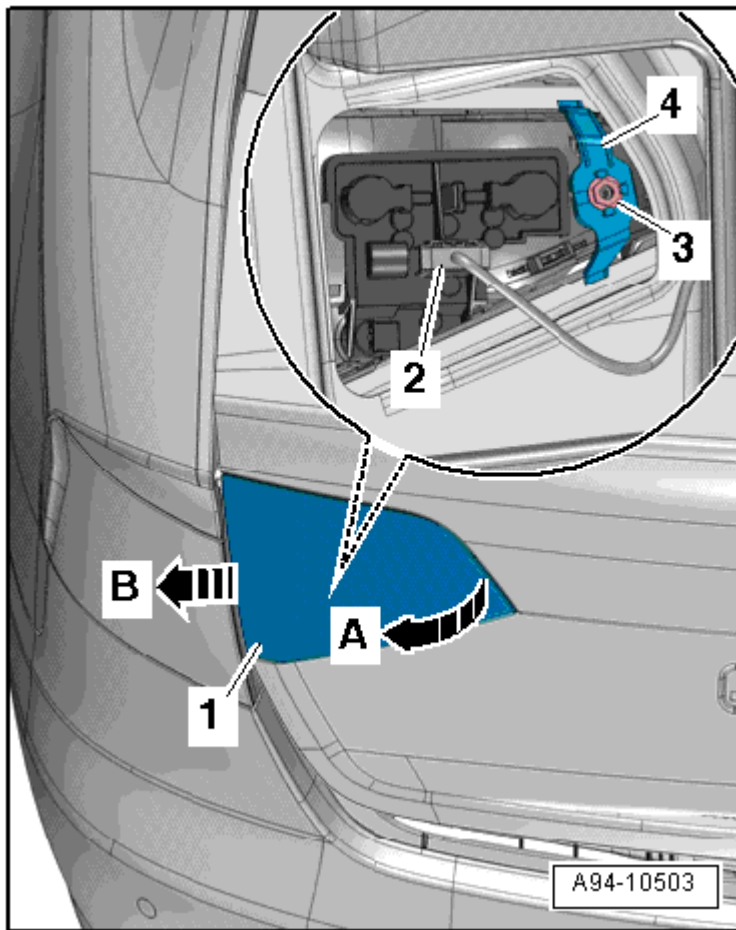
**Fig. 167: Using 3409 To Pry Cover**  
Courtesy of AUDI OF AMERICA, LLC

-- Turn off the ignition and remove the ignition key.

-- Turn the light switch to the "0" position.

-- Pry the cover -1- out using the 3409 -arrow-.

-- Disconnect the electrical connector -2-.



**Fig. 168: Disconnecting Electrical Connector**  
Courtesy of AUDI OF AMERICA, LLC

-- Remove the nut -3- and remove the bracket -4-.

-- Tilt the inner tail lamp toward the outside slightly -arrow A- and remove it in the -direction of arrow B- at the rear lid.

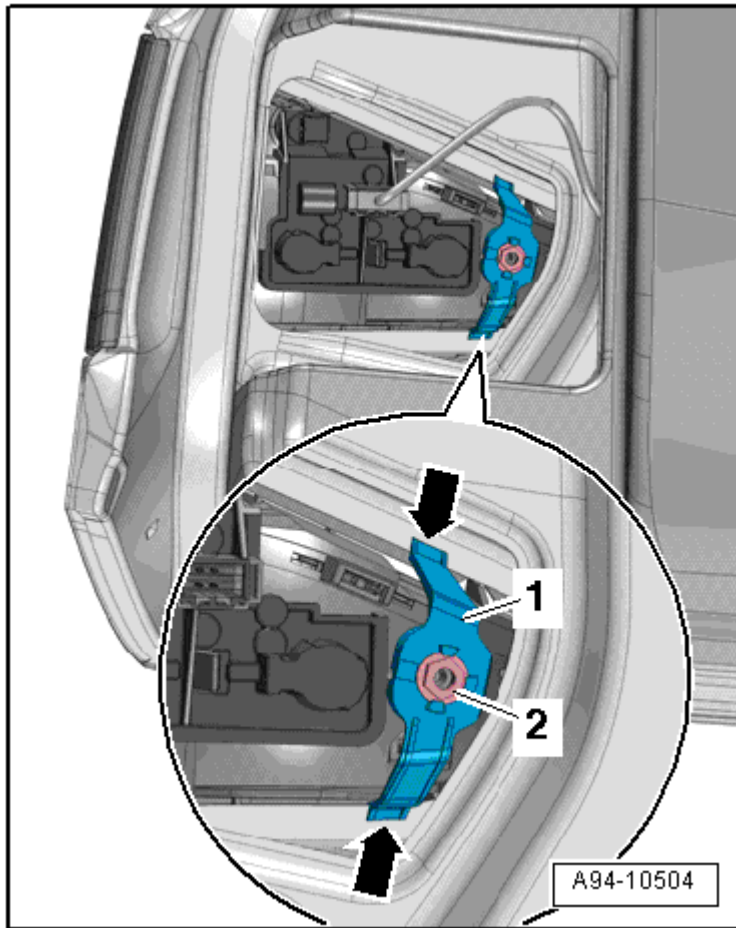
### Installing

Install in reverse order of removal, observing the following:

- Tightening specification, refer to **INNER TAIL LAMP**.

**NOTE:** Make sure the seal between the body and tail lamp seals correctly.

-- Position the inner tail lamp on the outer edge of the rear lid.



**Fig. 169: Sliding Bracket Onto Inner Tail Lamp Threaded Pins**

Courtesy of AUDI OF AMERICA, LLC

-- Slide the bracket -1- onto the inner tail lamp threaded pins.

-- Tighten the nut -2-.

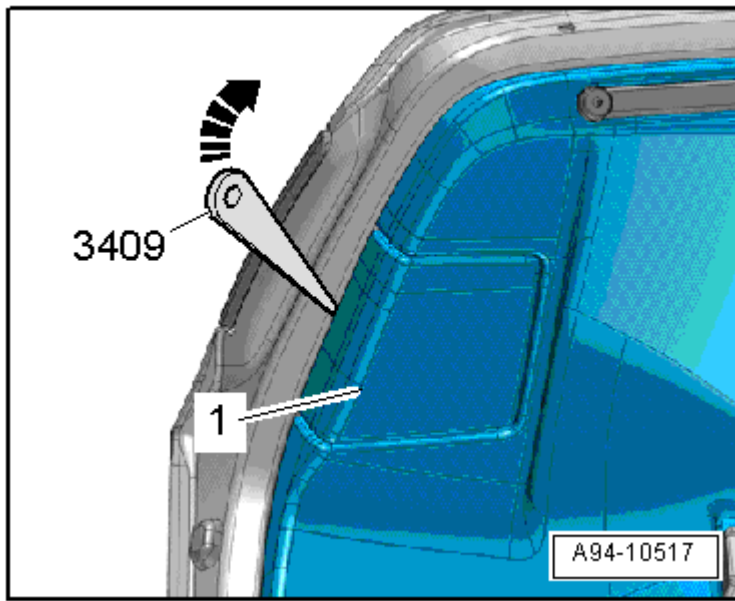
**NOTE:** When tightening the nuts, the bracket wedges itself onto the rear lid -arrows-.

#### INNER TAIL LAMP BULB

#### Special tools and workshop equipment required

- Trim Removal Wedge 3409

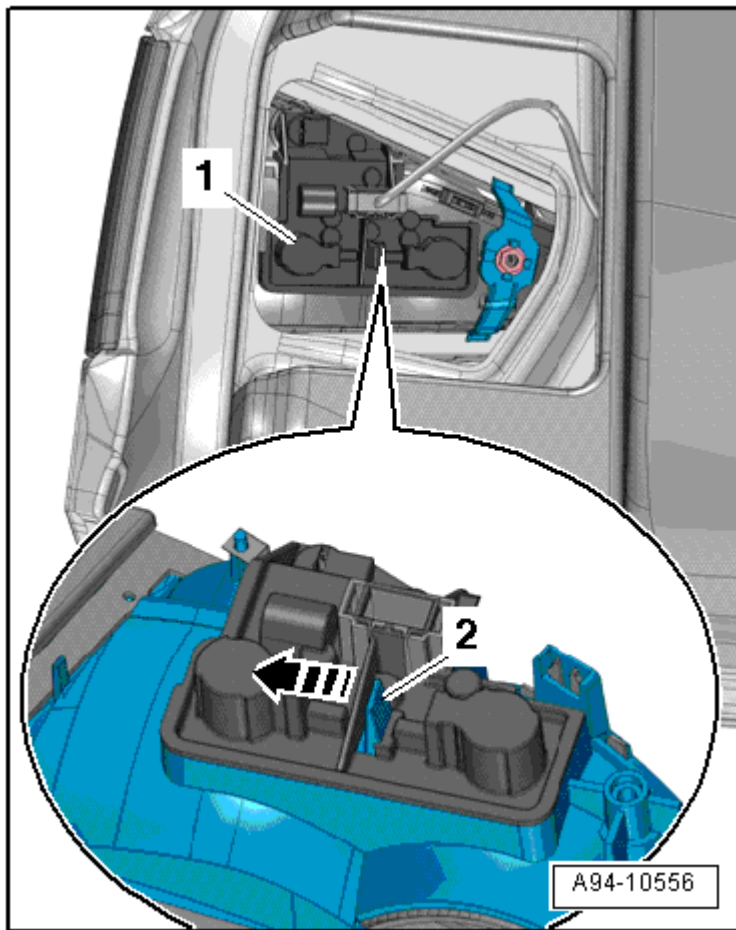
#### Removing



**Fig. 170: Using 3409 To Pry Cover**

Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the ignition key.
- Turn the light switch to the "0" position.
- Pry the cover -1- out using the 3409 -arrow-.
- Press the locking bracket -2- in the -direction of the arrow- and remove the bulb socket -1- from the housing.



**Fig. 171: Identifying Tail Lamp/Fog Lamp Bulb From Socket**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the tail lamp/fog lamp bulb from the socket.
- Remove the backup lamp bulb from the socket.

### **Installing**

Install in reverse order of removal, observing the following:

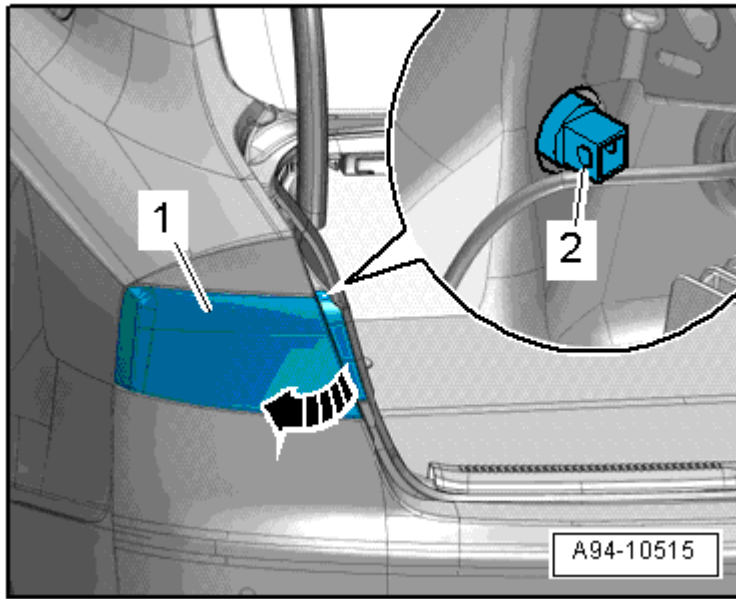
- Insert the new bulb in the socket without touching the bulb with bare hands.

### **LED TAIL LAMPS, THROUGH MY 2012**

Observe the notes on contact corrosion. Refer to **CONTACT CORROSION**.

### **OUTER TAIL LAMP**

### **Removing**



**Fig. 172: Identifying Outer Tail Lamps**  
Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the ignition key.
- Turn the light switch to the "0" position.
- Open the luggage compartment side trim cover.
- Remove the threaded pins -2-.
- Pivot the tail lamp -1- outward -arrow- and disengage the retaining pins from the body.
- Disconnect the electrical connector.

### Installing

- Tightening specification, refer to **OUTER TAIL LAMP**.

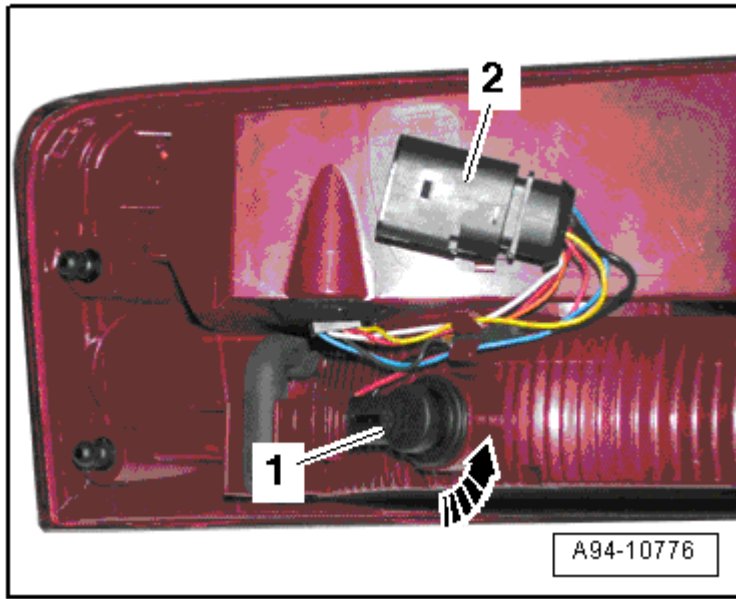
Install in reverse order of removal, observing the following:

**NOTE:** The self-adhesive seal on the tail lamp must seal correctly.

- Position the tail lamp on the body and press the retaining pins into the holes.
- Tighten the threaded pins.

### OUTER TAIL LAMP BULB

### Removing



**Fig. 173: Identifying Outer Tail Lamp**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the outer tail lamp. Refer to **OUTER TAIL LAMP**.
- Turn the bulb socket -1- counterclockwise -arrow- and remove it from the tail lamp.
- Remove the bulb from the bulb socket.

**NOTE:** Disregard item -2-.

### Installing

Install in reverse order of removal, observing the following:

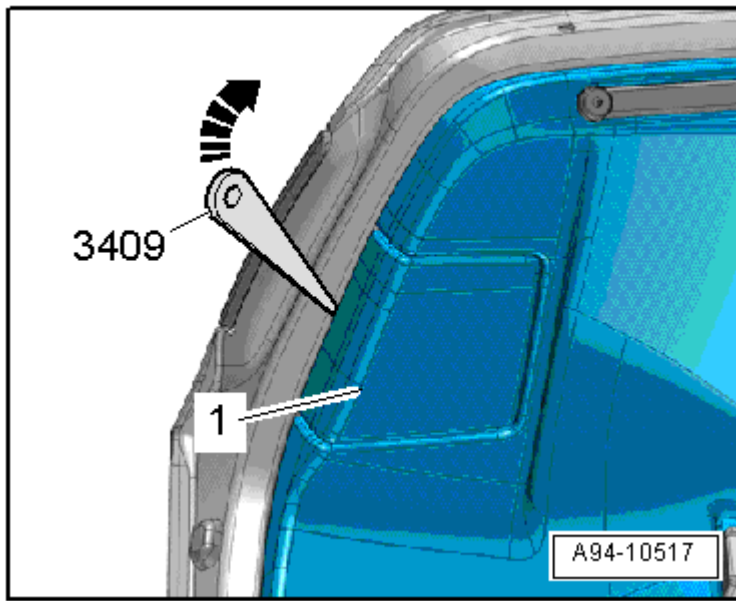
- Insert the new bulb into the socket without touching the bulb with bare hands.
- Turn the bulb socket clockwise to secure it.
- Install the outer tail lamp. Refer to **OUTER TAIL LAMP**.

### INNER TAIL LAMP

#### Special tools and workshop equipment required

- Trim Removal Wedge 3409

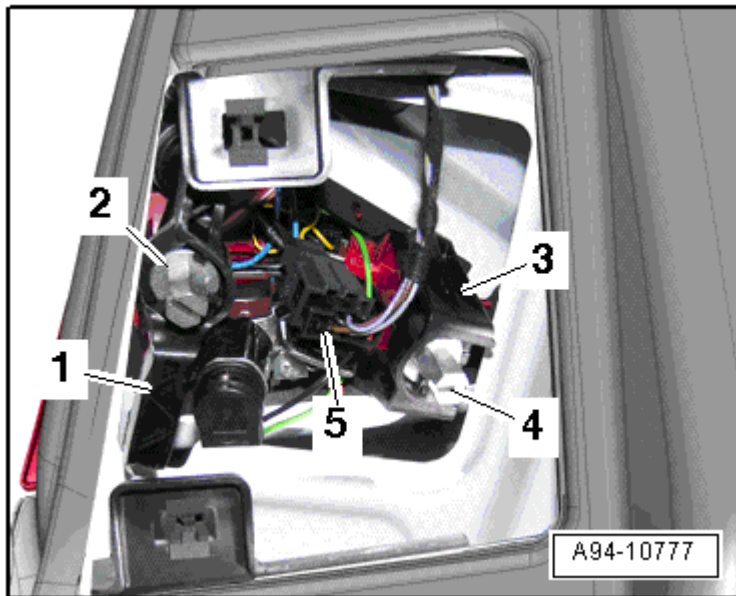
### Removing



**Fig. 174: Using 3409 To Pry Cover**

Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the ignition key.
- Turn the light switch to the "0" position.
- Pry the cover -1- out using the 3409 -arrow-.
- Disconnect the electrical connector -5-.



**Fig. 175: Disconnecting Electrical Connector**

Courtesy of AUDI OF AMERICA, LLC

-- Remove the nut -2- and then remove the large bracket -1-.

-- Remove the nut -4- and the small bracket -3-.

-- Remove the inner tail lamp toward the outside.

### Installing

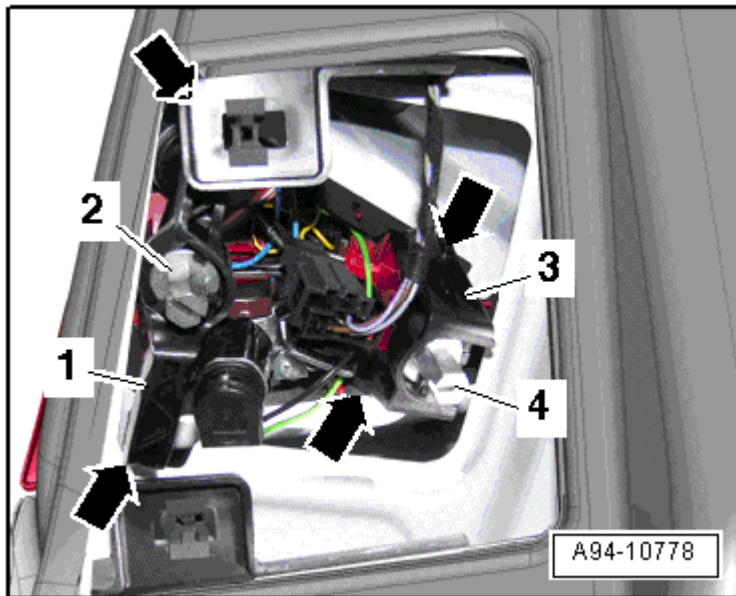
Install in reverse order of removal, observing the following:

- Tightening specification, refer to **INNER TAIL LAMP**.

**NOTE:** Make sure the seal between the body and tail lamp seals correctly.

-- Position the inner tail lamp on the outer edge of the rear lid.

-- Slide the small bracket -3- onto the threaded pins on the inner tail lamp and install the nut -4- loosely.



**Fig. 176: Sliding Small Bracket Onto Threaded Pins On Inner Tail Lamp**

Courtesy of AUDI OF AMERICA, LLC

-- Slide the large bracket -1- onto the threaded pins on the inner tail lamp and tighten the nuts -2 and 4-.

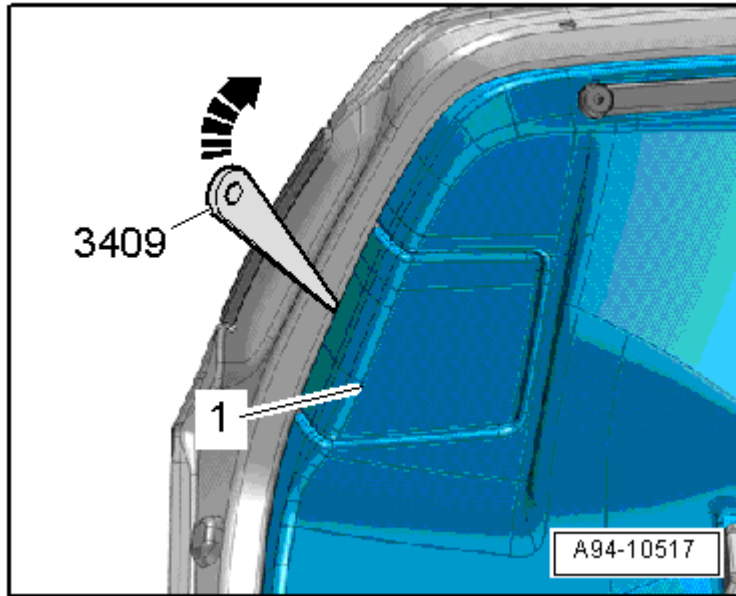
**NOTE:** When tightening the nuts, the bracket wedges itself onto the rear lid -arrows-.

### FOG LAMP BULB

Special tools and workshop equipment required

- Trim Removal Wedge 3409

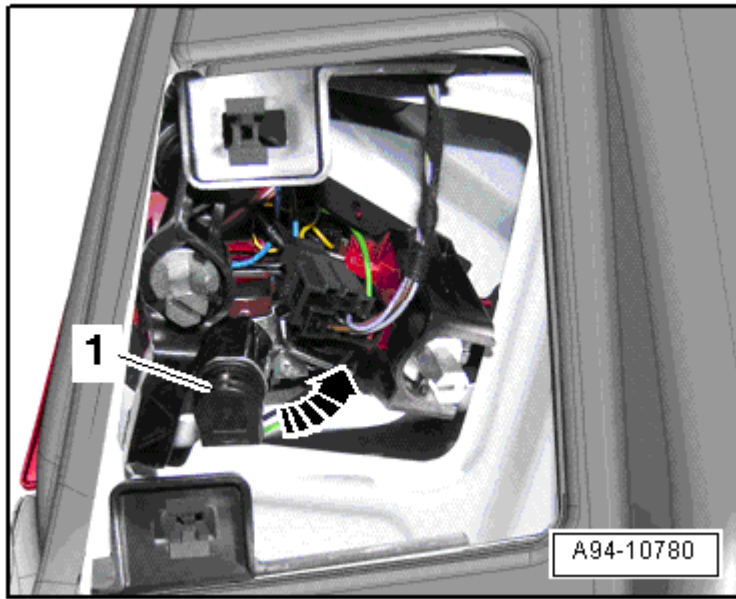
## Removing



**Fig. 177: Using 3409 To Pry Cover**

Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the ignition key.
- Turn the light switch to the "0" position.
- Pry the cover -1- out using the 3409 -arrow-.
- Turn the socket -1- counterclockwise -arrow- and remove it from the tail lamp.



**Fig. 178: Identifying Fog Lamp Bulb From Socket**  
Courtesy of AUDI OF AMERICA, LLC

-- Remove the fog lamp bulb from the socket.

### **Installing**

Install in reverse order of removal, observing the following:

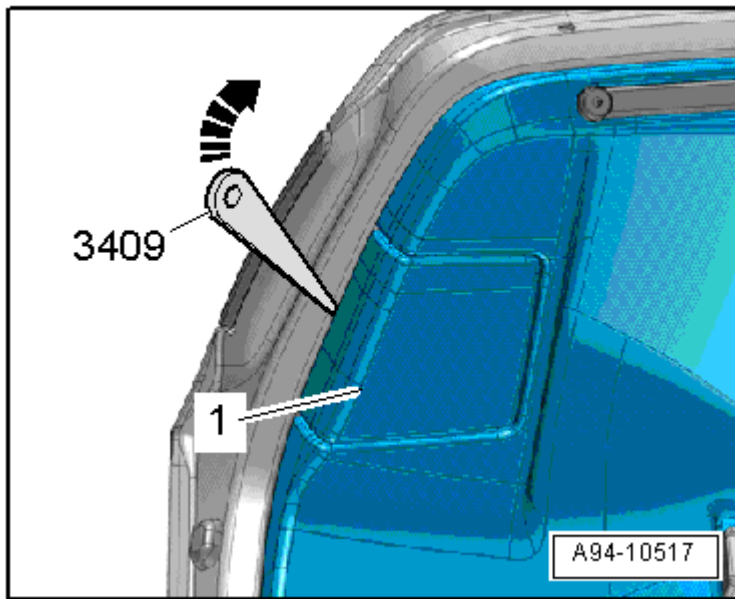
-- Insert the new bulb in the socket without touching the bulb with bare hands.

### **BACKUP LAMP BULB**

### **Special tools and workshop equipment required**

- Trim Removal Wedge 3409

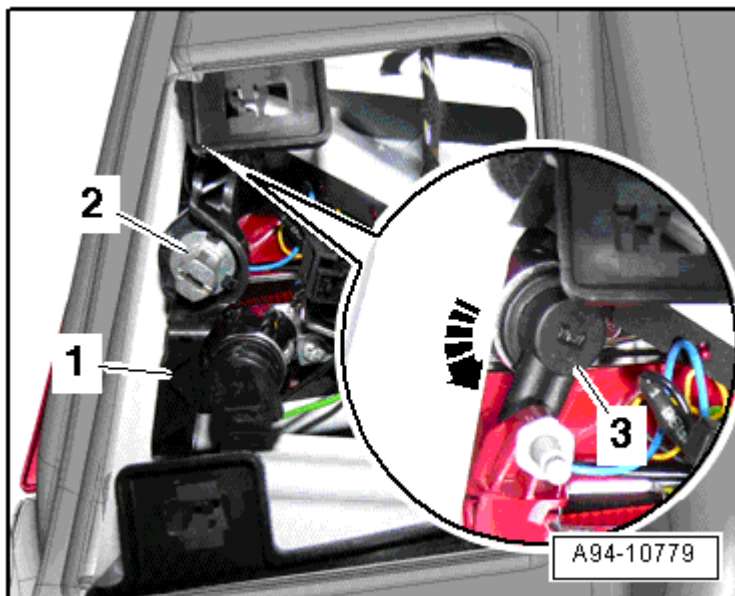
### **Removing**



**Fig. 179: Using 3409 To Pry Cover**

Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the ignition key.
- Turn the light switch to the "0" position.
- Pry the cover -1- out using the 3409 -arrow-.
- Remove the nut -2- and remove the large bracket -1-.



**Fig. 180: Unlocking Socket On Left Tail Lamp**

Courtesy of AUDI OF AMERICA, LLC

-- Unlock the socket -3- : on the left tail lamp, turn counterclockwise -arrow- ; on the right tail lamp, turn clockwise.

-- Pull the socket out of the tail lamp.

-- Remove the backup lamp bulb from the socket.

### Installing

- Tightening specification, refer to **INNER TAIL LAMP**.

Install in reverse order of removal, observing the following:

-- Insert the new bulb in the socket without touching the bulb with bare hands.

-- Slide the large bracket -1- onto the threaded pins on the inner tail lamp and tighten the nut -2-.

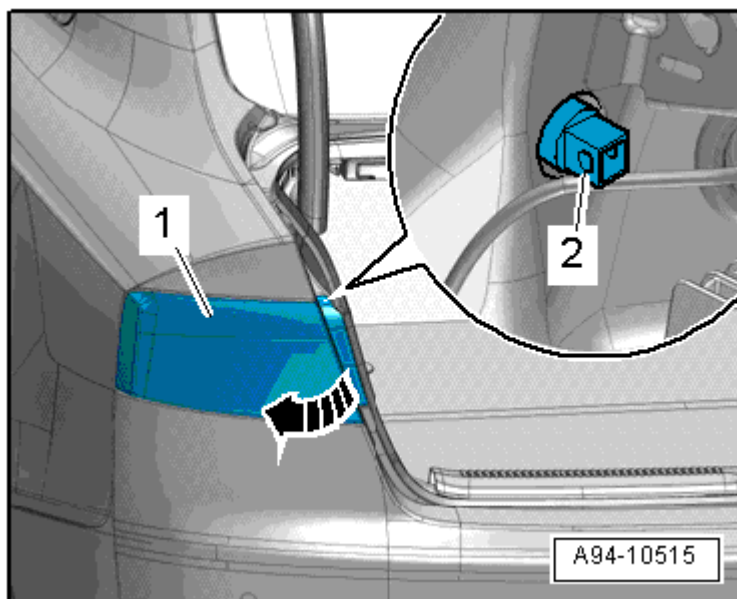
**NOTE:** When tightening the nut, the bracket wedges itself onto the rear lid.

### LED TAIL LAMPS, FROM MY 2013

#### OUTER TAIL LAMPS

Refer to the information regarding contact corrosion. Refer to **CONTACT CORROSION**.

### Removing



**Fig. 181: Identifying Outer Tail Lamps**  
Courtesy of AUDI OF AMERICA, LLC

- Turn off the ignition and remove the key.
- Turn the headlamp switch to "0".
- Open the luggage compartment side trim cover.
- Remove the threaded pins -2-.
- Pivot the tail lamp -1- outward -arrow- and disengage retaining pins from the body.
- Disconnect the connector.

**Installing**

- Tightening specification, refer to **OUTER TAIL LAMP**.

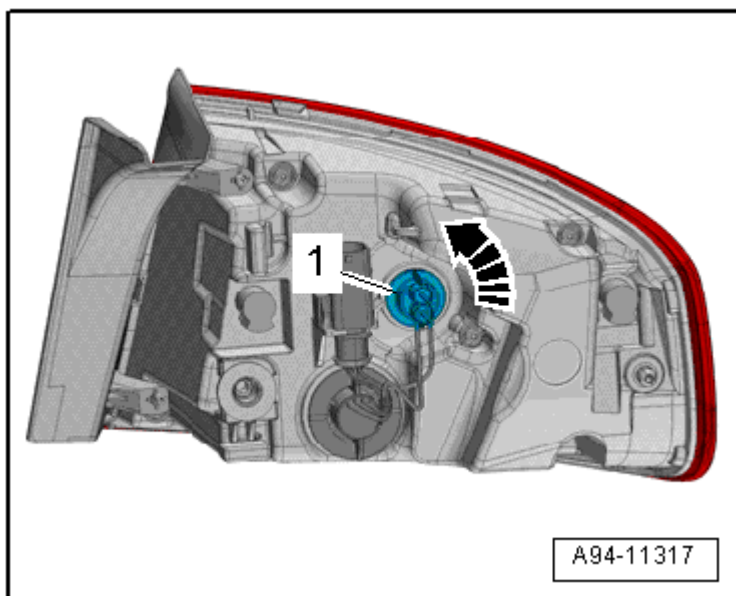
Install in reverse order of removal. Note the following:

**NOTE:**        **The self-adhesive seal on the tail lamp housing must seal correctly.**

- Position the tail lamp on the body and press the retaining pins into the holes.
- Tighten the threaded pins.

**BACKUP LAMP BULB -M16- / -M17-**

Refer to the information regarding contact corrosion. Refer to **CONTACT CORROSION**.

**Removing**

**Fig. 182: Turning Bulb Socket Counter-Clockwise**  
Courtesy of AUDI OF AMERICA, LLC

- Remove the outer tail lamp. Refer to **OUTER TAIL LAMPS**.
- Turn the bulb socket -1- counter-clockwise -arrow- and remove it from the tail lamp housing.
- Remove the backup lamp bulb from the bulb socket.

### Installing

- Tightening specification, refer to **INNER TAIL LAMP**.

Install in reverse order of removal. Note the following:

- Insert new bulb in the bulb socket. Do not touch the glass bulbs with bare hands.
- Install the outer tail lamp. Refer to **OUTER TAIL LAMPS**.

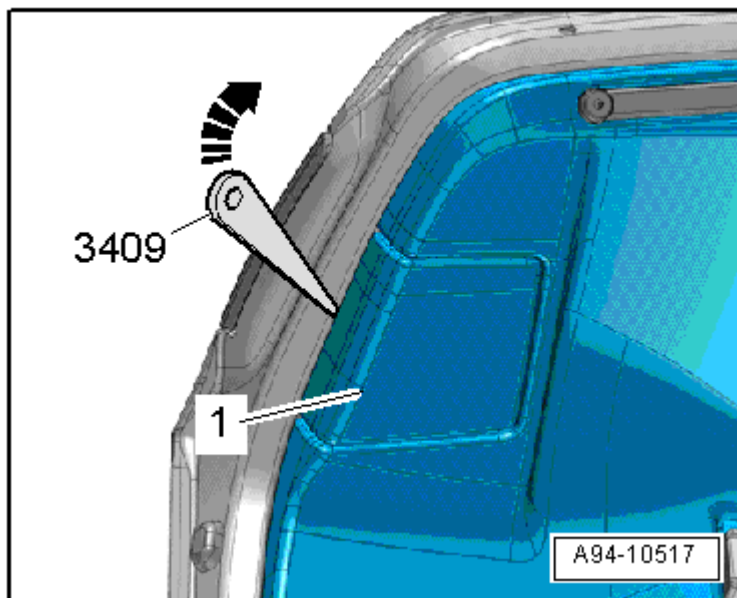
### INNER TAIL LAMPS

### Special tools and workshop equipment required

- Removal Wedge 3409

Refer to the information regarding contact corrosion. Refer to **CONTACT CORROSION**.

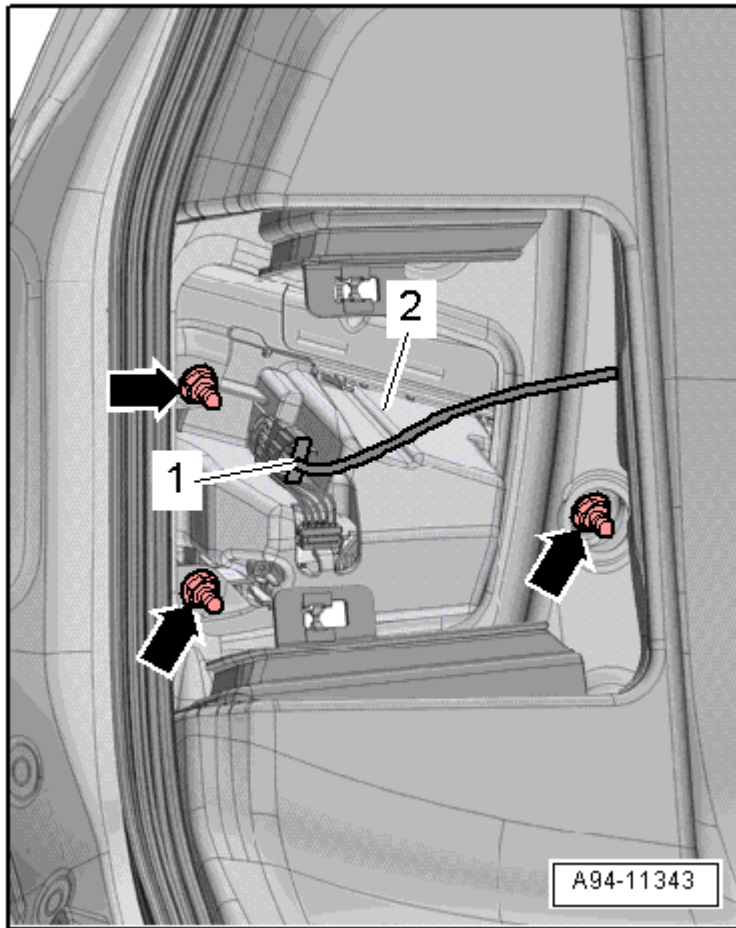
### Removing



**Fig. 183: Using 3409 To Pry Cover**

**Courtesy of AUDI OF AMERICA, LLC**

- Turn off the ignition and remove the key.
- Turn the headlamp switch to "0".
- Pry the cover -1- out using a 3409 -arrow-.
- Disconnect the connector -1-.

**Fig. 184: Identifying Nuts****Courtesy of AUDI OF AMERICA, LLC**

- Remove the nut -arrows-.
- Remove the inner tail lamp toward the outside.

**Installing**

Install in reverse order of removal. Note the following:

- Tightening specification, refer to **Fig. 28**.

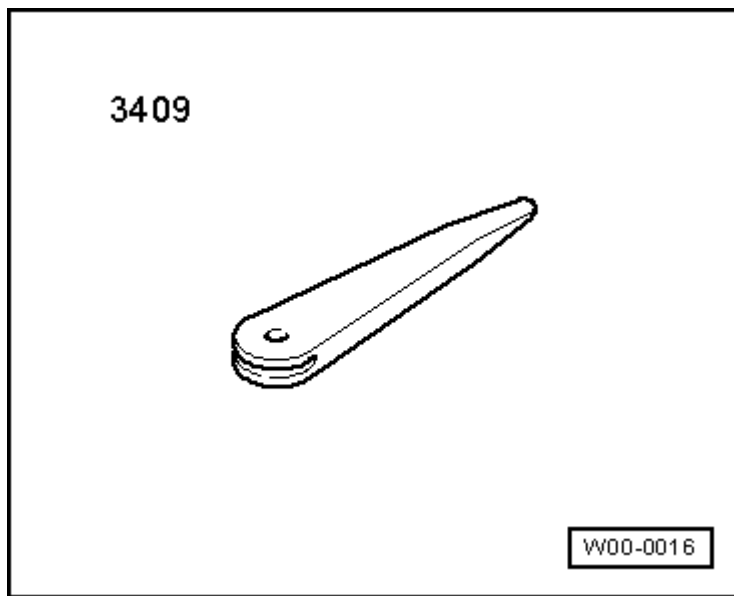
**NOTE:** Replace the entire inner tail lamp if the LED is faulty.

Make sure the seal between the body and tail lamp housing seals correctly.

## SPECIAL TOOLS

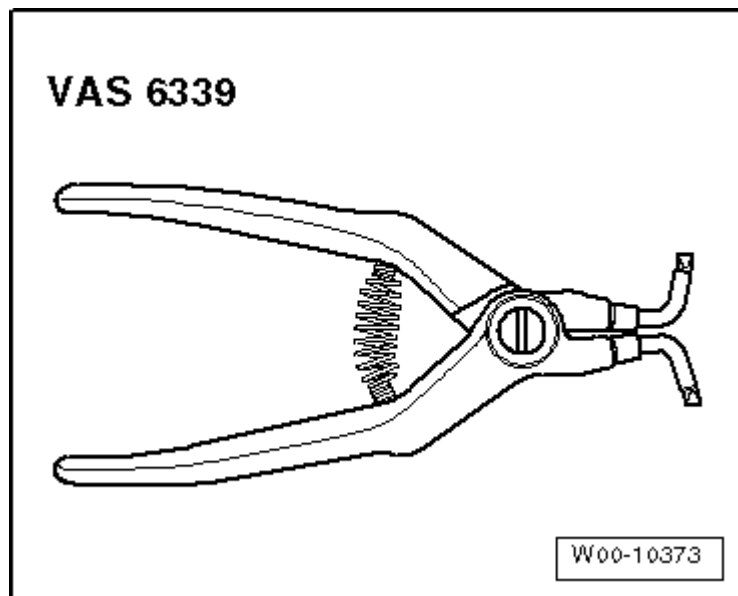
### Special tools and workshop equipment required

- Trim Removal Wedge 3409



**Fig. 185: Identifying Trim Removal Wedge 3409**  
Courtesy of AUDI OF AMERICA, LLC

- Special Pliers VAS 6339



**Fig. 186: Identifying Special Pliers VAS 6339**  
Courtesy of AUDI OF AMERICA, LLC