

Component Procedures: Tail Lamp

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Component Procedures: Tail Lamp

Tail Lamp Bezel Replacement (Article 10018)

Callout Component Name

Preliminary Procedures Open and support the rear compartment lid. Remove the tail lamp closeout filler panel.

Refer to Tail Lamp Closeout Filler Replacement .

Preliminary Procedures

- Open and support the rear compartment lid.

- Remove the tail lamp closeout filler panel. Refer to Tail Lamp Closeout Filler Replacement .

1 Tail Lamp Bezel Procedure Use a thin flat-bladed tool, release the six tabs securing the bezel to the rear bumper fascia and push outward in order to remove.

Procedure

Use a thin flat-bladed tool, release the six tabs securing the bezel to the rear bumper fascia and push outward in order to remove.

Tail Lamp Closeout Filler Replacement (Article 10020)

Callout Component Name

Preliminary Procedure Open and support the rear compartment lid.

Preliminary Procedure

Open and support the rear compartment lid.

1 Tail Lamp Closeout Filler Panel Retainer (Qty: 3) Procedures Use a small flat-bladed tool in order to release the retainer top cap. Lift the bottom half of the retainer from the tail lamp closeout filler panel hole. Remove the tail lamp closeout filler panel from the body panel.

Procedures

- Use a small flat-bladed tool in order to release the retainer top cap.

- Lift the bottom half of the retainer from the tail lamp closeout filler panel hole.

- Remove the tail lamp closeout filler panel from the body panel.

2 Tail Lamp Filler Closeout Panel

Tail Lamp Replacement - Inboard (Article 10421)

Callout Component Name

Preliminary Procedures Remove the tail lamp filler closeout panel. Refer to Tail Lamp Closeout Filler Replacement . Remove the tail lamp bezel. Refer to Tail Lamp Bezel Replacement . Disconnect the bulb socket from the tail lamp. Remove the three tail lamp nuts. Release the three locating tabs securing the tail lamp to the rear bumper fascia pocket. Push the tail lamp assembly outward from the rear bumper fascia.

Preliminary Procedures

- Remove the tail lamp filler closeout panel. Refer to Tail Lamp Closeout Filler Replacement .

- Remove the tail lamp bezel. Refer to Tail Lamp Bezel Replacement .

- Disconnect the bulb socket from the tail lamp.

- Remove the three tail lamp nuts.

- Release the three locating tabs securing the tail lamp to the rear bumper fascia pocket.

- Push the tail lamp assembly outward from the rear bumper fascia.

1 Tail Lamp Inboard Nut (Qty: 3) Caution: Refer to Fastener Caution . Tighten 2.5 Nm (22 lb in)

2.5 Nm (22 lb in)

2 Tail Lamp Bulb Socket Warning: Refer to Halogen Bulb Warning .

3 Tail Lamp Assembly Inboard

Tail Lamp Replacement - Outboard (Article 10425)

Callout Component Name

Preliminary Procedures Remove the tail lamp filler closeout panel. Refer to Tail Lamp Closeout Filler Replacement . Remove the tail lamp bezel. Refer to Tail Lamp Bezel Replacement . Disconnect the bulb socket from the tail lamp. Remove the three tail lamp nuts. Release the three locating tabs securing the tail lamp to the rear bumper fascia pocket. Push the tail lamp assembly outward from the rear bumper fascia.

Preliminary Procedures

- Remove the tail lamp filler closeout panel. Refer to Tail Lamp Closeout Filler Replacement .

- Remove the tail lamp bezel. Refer to Tail Lamp Bezel Replacement .

- Disconnect the bulb socket from the tail lamp.

- Remove the three tail lamp nuts.

- Release the three locating tabs securing the tail lamp to the rear bumper fascia pocket.

- Push the tail lamp assembly outward from the rear bumper fascia.
- 1 Tail Lamp Outboard Nut (Qty: 3) Caution: Refer to Fastener Caution . Tighten Tighten the nuts to 2.5 Nm (22 lb in)
- Tighten the nuts to 2.5 Nm (22 lb in)
- 2 Tail Lamp Bulb Socket Warning: Refer to Halogen Bulb Warning .
- 3 Tail Lamp Assembly Outboard

Park, License, and/or Tail Lamps Malfunction (Article 10364)

Diagnostic Instructions

- Perform the Diagnostic System Check - Vehicle prior to using this diagnostic procedure.
- Review Strategy Based Diagnosis for an overview of the diagnostic approach.
- Diagnostic Procedure Instructions provides an overview of each diagnostic category.

Diagnostic Fault Information

Circuit Short to Ground Open/High Resistance Short to Voltage Signal Performance

Headlamp Switch Park Lamp s ON Signal 2 B257A 00 2 —

License Plate Lamp Control B3883 02 B3883 01, B3883 04 B3883 01 —

Park Lamps Control – Left B2585 02 B2585 01, B2585 04 B2585 01, B2585 04 —

Park Lamps Control – Right B3867 02 B3867 01, B3867 04 B3867 01, B3867 04 —

Park Lamps Control – Left Rear (without T90) B3881 02 B3881 04, B3881 01 B3881 04, B3881 01 —

Park Lamps Control – Right Rear (without T90) B3882 02 B3882 04, B3882 01 B3882 04, B3882 01 —

Headlamp Switch Ground — 2 — —

License Plate Lamp Ground - Left — 1 — —

License Plate Lamp Ground - Right — 1 — —

Side Marker Lamp Ground – Left Front — 1 — —

Side Marker Lamp Ground – Right Front — 1 — —

Side Marker Lamp Ground – Left Rear — 1 — —

Side Marker Lamp Ground – Right Rear — 1 — —

Stop/Tail/ Turn Signal Lamps Ground – Left — 1 — —

Stop/Tail/ Turn Signal Lamp s Ground – Right — 1 — —

1. Park, License, and/or Tail Lamp s Malfunction 2. Park Lamp Switch Malfunction

Circuit/System Description

When the headlamp switch is placed in the HEAD or PARK position, ground is applied to the park lamp switch ON signal circuit to the body control module (BCM). The BCM responds by applying voltage to the park lamps, tail lamps, and license lamps control circuits illuminating the park, tail, and license lamp s.

Reference Information

Schematic Reference

Exterior Lights Schematics

Connector End View Reference

Component Connector End Views

Description and Operation

Exterior Lighting Systems Description and Operation

Electrical Information Reference

- Circuit Testing
- Connector Repairs
- Testing for Intermittent Conditions and Poor Connections
- Wiring Repairs

Scan Tool Reference

Control Module References for scan tool information

Circuit/System Verification

- Ignition ON.
- Verify the scan tool Parking Lamp Switch parameter changes between Active and Inactive while commanding the park lamps ON and OFF with the headlamp switch.
- If the parameter does not change Refer to Park Lamp Switch Malfunction.
- If the parameter changes
- Verify the left park lamps turn ON and OFF when commanding the Left Park Lamps ON and OFF with a scan tool.
- If the left park lamps do not turn ON and OFF Refer to Park Lamps Malfunction.
- If the left park lamps turn ON and OFF
- Verify the right park lamps turn ON and OFF when commanding the Right Park Lamps ON and OFF with a scan tool.
- If the right park lamps do not turn ON and OFF Refer to Park Lamps Malfunction.

- If the right park lamps turn ON and OFF
- Verify the license plate lamps turn ON and OFF when commanding the License Plate Lamps ON and OFF with a scan tool.
- If the license plate lamps do not turn ON and OFF Refer to License Plate Lamps Malfunction.
- If the license plate lamps turn ON and OFF
- All OK.

Circuit/System Testing

Park Lamp Switch Malfunction

- Ignition OFF, all doors closed, all accessories OFF, disconnect the harness connector at the S30 headlamp switch. It may take up to 2 minutes for all vehicle systems to power down.
- Test for less than 15 Ω between the ground circuit terminal 6 and ground.
- If 15 Ω or greater
- Ignition OFF.
- Test for less than 2 Ω in the ground circuit end to end.
- If 2 Ω or greater, repair the open/high resistance in the circuit.
- If less than 2 Ω , repair the open/high resistance in the ground connection.
- If less than 15 Ω
- Verify the scan tool Park Lamps Switch parameter is Inactive.
- If not Inactive
- Ignition OFF, disconnect the X1 harness connector at the K9 body control module.
- Test for infinite resistance between the signal circuit terminal 3 and ground.
- If less than infinite resistance, repair the short to ground on the circuit.
- If infinite resistance, replace the K9 body control module.
- If Inactive
- Install a 3 A fused jumper wire between the signal circuit terminal 3 and the ground circuit terminal 6.
- Verify the scan tool Park Lamps Switch parameter is Active.
- If not Active
- Ignition OFF, disconnect the X1 harness connector at the K9 body control module, ignition ON.
- Test for less than 1 V between the signal circuit terminal 3 and ground.
- If 1 V or greater, repair the short to voltage on the circuit.
- If less than 1 V
- Test for less than 2 Ω in the signal circuit end to end.
- If less than 2 Ω , replace the K9 body control module.
- If Active
- Test or replace the S30 headlamp switch.

Park Lamps Malfunction

- Ignition OFF, exterior lamps OFF, trunk latch latched, disconnect the harness connector at the appropriate park lamp.
- Test for less than 5 Ω between the appropriate ground circuit terminal and ground.
- If 5 Ω or greater
- If less than 5 Ω
- Connect a test lamp between the appropriate control circuit terminal and ground, ignition ON.
- Verify the test lamp turns ON and OFF when commanding the appropriate Park Lamps ON and OFF with a scan tool.
- If the test lamp is always OFF
- Ignition OFF, disconnect the appropriate harness connector listed below at the K9 body control module.
- X4
- X5
- Test for infinite resistance between the control circuit and ground.
- If infinite resistance
- Test for less than 2 Ω in the control circuit end to end.
- If the test lamp is always ON
- Test for less than 1 V between the control circuit terminal and ground.
- If less than 1 V, replace the K9 body control module.
- If the test lamp turns ON and OFF
- Test or replace the appropriate park lamp.

License Plate Lamps Malfunction

- Ignition OFF, exterior lamps OFF, trunk latch latched, remove both E7 license plate lamp bulbs .
- Test for less than 5 Ω between each ground circuit terminal 2 and ground.
- Connect a test lamp between the E7L license plate lamp – left control circuit terminal 1 and ground,

ignition ON.

- Verify the test lamp turns ON and OFF when commanding the License Plate Lamps ON and OFF with a scan tool.
- Ignition OFF, disconnect the X4 harness connector at the K9 body control module.
- Ignition OFF, disconnect the X4 harness connector at the K9 body control module, ignition ON.
- Connect a test lamp between the E7R license plate lamp – right control circuit terminal 1 and ground, ignition ON.
- Test or replace the appropriate E7 license plate lamp bulb.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair.

- Rear License Plate Lamp Replacement
- Parking and Turn Signal Lamp Bulb Replacement
- Tail Lamp Bulb Replacement
- Front Side Marker Lamp Replacement
- Rear Side Marker Lamp Replacement
- Headlamp, Instrument Panel Lamp Dimmer, and Fog Lamp Switch Replacement
- Tail Lamp Replacement - Inboard
- Tail Lamp Replacement - Outboard
- Control Module References for BCM replacement, programming, and setup