

LA11

Tail, Parking, And Back-Up

**Uniform
Procedures For
Collision Repair
UPCR**



1. Description

This procedure describes methods for the repair, replacement, and inspection of tail, parking, and back-up lamps.



2. Purpose

The purpose of this procedure is to provide industry-accepted requirements for performing high-quality repair of tail, parking, and back-up lamps. This procedure is intended for use by professionals who are qualified through training and experience.



3. Referenced Documents

The following documents are considered part of this procedure by reference.

3.1 Procedures

- EL01 Wire Repair
- EL11 Troubleshooting
- LA01 Front Driving Lamps
- PS01 Personnel Safety

3.2 Other Information

- Equipment-specific information
- Vehicle-specific repair information



4. Equipment And Material Requirements

4.1 Electronic Equipment

Use electronic testing equipment as described in **EL11**.



5. Damage Analysis

5.1 General Damage

Inspect tail, parking, and back-up lamp assemblies for these conditions:

- improper operation
- visible damage
- improper previous repairs
- loose or damaged mountings
- damaged or missing trim or fasteners
- moisture behind the lens

Plan to replace any damaged parts. Verify the availability of replacement parts.

5.2 Electrical Parts

Inspect tail, parking, and back-up lamp assembly electrical parts for these conditions or types of damage:

- broken or burned-out bulb
- damaged or corroded bulb socket
- blown fuse
- cut, pinched, or corroded wires
- damaged or corroded switches
- damaged, loose, or corroded ground or connector

It may be necessary to partially disassemble the lamp assembly to determine the condition of the connectors and other electrical parts. If electrical parts do not function correctly, plan to troubleshoot the circuit to isolate the cause. See **EL11**.

Determine the parts that will be replaced and the wiring that will be repaired. See **EL01** for wire repair procedures. Verify the availability of replacement parts.



6. Personnel Safety

6.1 General Safety

General safety information is in **PS01**.

6.2 Electrical Testing Safety

Electrical testing safety information is in **EL11**.



7. Environmental Safety

Does not apply.



8. Vehicle Protection

8.1 Lamps And Adjacent Parts

To prevent damage to tail, parking and back-up lamp assemblies and adjacent parts:

- Protect the lamps, connectors, and adjacent parts during removal and installation.
- Avoid the use of strong solvents when cleaning a lamp lens.
- Make sure bulbs, sockets, and lenses are completely dry before installation to avoid condensation or electrical damage.

8.2 Electrical Parts

To protect electrical parts from damage:

- Make sure the lamp switch is OFF before disconnecting the electrical connector.
- Protect connectors and wiring from dirt, heat, static electricity, and moisture.
- Loosen or remove any wiring harnesses or electrical parts that could be damaged during the repair process.



9. Repair Procedure

9.1 Lamp Assembly Removal

To remove a tail, parking or back-up lamp assembly:

- 1. Open the deck lid, hatch, tailgate, or hood, if required.
- 2. Remove or reposition the access panel, trim, carpet, and other parts, if required for access or to avoid damage.
- 3. Remove fasteners holding the lamp housing.
- 4. Disconnect the lamp electrical connector.
- 5. Remove the lamp assembly from the vehicle. Replace the mounting gasket if it is damaged or worn.

9.2 Lamp Installation

To install a replacement tail, parking or back-up lamp assembly:

- 1. Connect the lamp to the electrical connector.
- 2. Properly position the lamp assembly and check the operation. Install the lamp housing fasteners.
- 3. Torque the fasteners to the vehicle maker's recommendations.
- 4. Reinstall parts removed or repositioned for access.
- 5. Close the deck lid, hatch, tailgate, or hood, and inspect the lamp assembly for water leaks. See **11.2**.



10. Use Of Recycled (Salvage) Parts

10.1 Salvage Part Requirements

Do not install tail, parking, or back-up lamp parts having any of these defects:

- unrepairable damage
- corrosion that has caused pitting
- improper previous repairs
- missing mounting locations



11. Inspection And Testing

11.1 Inspection Of A Replaced Tail, Parking, Or Back-Up Lamp Assembly

After installation, inspect a tail, parking, or back-up lamp assembly for these conditions:

- proper alignment to panels and adjacent lamps
- proper operation
- proper bulb
- proper mounting and installation of trim panels and carpets
- fasteners torqued to the vehicle maker's recommendations
- proper brightness in relation to other lamps
- proper seal from water leaks (see **11.2**)

Correct any defects.

11.2 Water-Leak Test

To test for water leaks:

1. Apply water at low pressure around the perimeter of the lamp.
2. Inspect the lamp lens and interior areas for signs of leaking.

Correct any water leaks by re-adjusting the lamp cover or gasket, or replacing the gasket, and repeat the test. Make sure bulbs, sockets, and lenses are completely dry before reassembly.