

Uniform Procedures For Collision Repair

BU02P—Bumper Cover

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v.2.3



1. Description

This procedure describes the repair, replacement, and inspection of plastic **bumper covers**. Welding and **adhesive** repair information is included for all types of commonly used plastics.



2. Purpose

The purpose of this procedure is to provide industry-accepted requirements for performing high-quality repair of plastic bumper covers. 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

- HM01 Hazardous Materials
- PR01 Plastic Repair, Welding
- PR11 Plastic Repair, Adhesive
- PS01 Personnel Safety
- RF01P Surface Preparation
- RF41 Finish Application

3.2 Other Information

- Equipment-specific information
- Product-specific information
- Recycled parts information
- Vehicle-specific repair information



4. Equipment And Material Requirements

4.1 Plastic Welding Equipment

Use **plastic welding** equipment and materials as described in **PR01**.

4.2 Plastic Adhesive Materials

Use plastic adhesive materials as described in **PR11**.



5. Damage Analysis

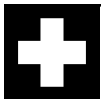
5.1 General Damage

Inspect plastic bumper covers for these types of damage:

- visible damage
- stress cracks or marks
- improper previous repairs
- dimensional misalignment
- damaged mounting locations or fasteners
- damaged finish



Determine whether the plastic bumper cover should be repaired or replaced. Verify the availability of replacement parts.



6. Personnel Safety

6.1 General Safety

General safety information is in **PS01**.

6.2 Plastic Repair Safety

Plastic repair safety information is in **PR01** or **PR11**.



7. Environmental Safety

7.1 Hazardous Materials

Hazardous material safety information is in **HM01**.



8. Vehicle Protection

8.1 Bumper Covers And Adjacent Areas

To protect plastic bumper covers and adjacent areas:

- Use care when removing or installing bolts or other fasteners.
- Support the bumper cover during removal and installation.
- Protect the assembly from damage during storage.
- Protect adjacent panels during on-vehicle repairs.



9. Repair Procedure

9.1 Repair Method Selection

Several factors affect the selection of a repair method:

- type of plastic
- type, location, and extent of the damage
- surface texture
- access to the back side of the part
- equipment and skills available

Plastic welding can be used for repairing non-reinforced thermoplastics and some thermoset plastics. Plastic repair adhesives can be used to repair most types of plastics. These types of damage can often be repaired:

- cuts
- cracks
- tears
- broken tabs
- gouges
- holes



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9. Repair Procedure (cont'd)

Before proceeding:

- 1. Select the appropriate repair method.
- 2. Determine if the bumper cover must be removed from the vehicle to perform repairs.

For removal see **9.2**. For installation see **9.3**.

9.2 Removal

To remove a plastic bumper cover:

- 1. Support the bumper as required.
- 2. Remove trim and adjacent parts as necessary.
- 3. Disconnect any electrical connectors (parking lights, turn signals, license plate lamps, etc.), if necessary.
- 4. Loosen and remove the fasteners that hold the bumper cover to the reinforcement, brackets, adjacent panels, moldings, or trim.
- 5. Remove the bumper cover.
- 6. Inspect all fasteners and mounting hardware that will be reused. Plan to replace any damaged or one-time fasteners.

9.3 Installation

To install a plastic bumper cover:

- 1. Refinish the bumper cover as necessary to restore appearance.
- 2. Ensure that all necessary repairs have been completed to reinforcements, brackets, etc.
- 3. Install any moldings or trim that cannot be installed after the installation of the bumper cover.
- 4. Position the bumper cover on the vehicle. Support the bumper as required.
- 5. Install brackets, adjacent panels, moldings, and trim. Follow the vehicle maker's recommendations. If the fasteners are being replaced, use fasteners that are the same size, type, and strength as the original fasteners. Ensure that all coatings and spacers are installed to prevent **galvanic corrosion**.
- 6. Reconnect any electrical connectors (parking lights, turn signals, license plate lamps, etc.).
- 7. Align the bumper cover to the adjacent panels. Some bumper covers may allow for adjustment of the cover itself. Others may require adjustment of the entire bumper assembly.
- 8. Torque all fasteners to the vehicle maker's recommendations.

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9. Repair Procedure (cont'd)

- 9. Recheck the alignment to adjacent panels.
- 10. Reinstall any remaining moldings and trim as necessary.
- 11. Reinstall any parts that were removed for access.
- 12. Continue vehicle reassembly.



10. Use Of Recycled (Salvage) Parts

10.1 Condition Of Salvage Parts

Do not install a plastic bumper cover having any of these defects:

- unrepairable damage
- damaged mounting locations
- improper previous repairs

Determine if the salvage plastic bumper cover can be repaired to restore appearance and durability. Plan to replace any damaged or corroded mounting hardware.

10.2 Preparation Of Salvage Parts

To prepare a salvage plastic bumper cover for installation:

- Remove any trim that is to be reused or replaced.
- Make any necessary repairs.
- Clean the part to remove grease, dirt, wax, etc.
- Remove any excessive paint film thickness.



11. Inspection And Testing

11.1 Inspection Of A Repaired Or Replaced Plastic Bumper Cover

Inspect a repaired or replaced bumper cover for these conditions:

- proper alignment
- proper finish appearance and film thickness
- proper installation of all trim and fasteners
- proper fastener torque
- proper operation of all electrical circuits
- proper replacement of fasteners and attaching hardware, for **corrosion** prevention.

Correct any defects.