

2022 CHEVROLET CORVETTE SERVICE MANUAL

- **SEARCH**

1. **Body Repair**
2. **Collision Repair**
3. **Description and Operation**
- 4.

Aluminum

Aluminum Sheet

This information provides repair recommendations and general guidelines for Aluminum sheet. Typical applications include body and closure panel applications such as hoods, doors, fenders, liftgates, body sides, roofs, and underbody components. Typical production attachment methods include Hemming, Resistance Spot welding, Flow Drill screws, Self-piercing rivets, MIG welding, and Impact resistance adhesive. Typical repair attachment methods include Flow Form rivets, Blind rivets, Flow Drill Screws, MIG welding, and Impact Resistance adhesive.

This includes the common names of:

- 5000 series
- 6000 series
- Note:
 - Welding should be performed with a dedicated aluminum MIG welder (220V/Pulse/200amp Minimum) with 0.035 5554 wire.
 - Always follow specific repair or replacement procedures.

Aluminum Extrusions

This information provides repair recommendations and general guidelines for Aluminum extrusions. Typical applications include body, closure, exterior and chassis structural applications. Typical production attachment methods include Resistance Spot welding, Flow Drill screws, Self-piercing rivets, MIG welding, and Impact resistance adhesive. Typical repair attachment methods include Flow Form rivets, Blind rivets, Flow Drill Screws, MIG welding, and Impact Resistance adhesive.

Note:

- Repair of this type of material is not recommended.
- This material should be replaced only. Sectioning or partial replacement is not recommended.
- Welding should be performed with a dedicated aluminum MIG welder (220V/Pulse/200amp Minimum) with 0.035 5554 wire.
- Always follow specific replacement procedures

Aluminum Castings

This information provides repair recommendations and general guidelines for Aluminum castings. Typical Body Structure applications include front and rear strut tower, Inner Hinge pillar, portion of front and rear rails, and the tunnel. Typical production attachment methods include Resistance Spot welding, Flow Drill screws, Self-piercing rivets, MIG welding, and Impact resistance adhesive. Typical repair attachment methods include Flow Form rivets, Blind rivets, Flow Drill Screws, MIG welding, and Impact Resistance adhesive.

Note:

- Repair of this type of material is not recommended.
- This material should be replaced only. Sectioning or partial replacement is not recommended.
- Welding should be performed with a dedicated aluminum MIG welder (220V/Pulse/200amp Minimum) with 0.035 5554 wire.
- Always follow specific replacement procedures.

Replacement of Aluminum Panels with Impact Resistance Adhesive

Warning:

When separating the aluminum panels during collision repair, be sure to adhere to the following precautions:

- Do not use an open flame
- Focus heat onto panel being replaced and do not exceed 200°C (392°F) for 3 consecutive minutes
- Use care not to damage adjacent panel while prying the panels apart

Failure to follow the precautions may lead to vehicle damage or personal injury.

mcx30.com