

Body - Overview

Insulation

WARNING: To prevent the risk of high-voltage shock, always follow precisely all warnings and service instructions, including instructions to depower the system. The high-voltage system utilizes approximately 300 volts DC, provided through high-voltage cables to its components and modules. The high-voltage cables and wiring are identified by orange harness tape or orange wire covering. All high-voltage components are marked with high-voltage warning labels with a high-voltage symbol. Failure to follow these instructions may result in serious personal injury or death.

NOTICE: Electric vehicles contain High Voltage Traction Batteries (HVTB). Before cutting or welding near the High Voltage Traction Battery (HVTB), the High Voltage Traction Battery (HVTB) must be removed to avoid possible damage.

Refer to: Important Safety Instructions (100-00 General Information, Description and Operation).

Refer to: High Voltage System Health and Safety Precautions - Overview (100-00 General Information, Description and Operation).

Refer to: Battery and Battery Charging Health and Safety Precautions (100-00 General Information, Description and Operation).

Refer to: Health and Safety Precautions (100-00 General Information, Description and Operation).

Insulation is used as a sound-deadener to reduce exterior road and powertrain noises from the interior of the vehicle. Mastic insulators are also used as insulation. Insulation is installed:

- under the roof.
- above and below the instrument panel.
- at the cowl side panels.
- over the front and rear floorpans.
- inside the B-, C- and D-pillar sections.
- on the wheelhouse/quarter panel.
- behind the rear quarter trim panel.

Other forms of insulation include:

- front tunnel stiffening pad.
- dash panel stiffener.
- rear wheelhouse mastic pads.
- rear door mastic pads.

It has heat-bonded mastic deadeners for improved NVH characteristics.

It also has sound dampeners located inside the D-pillar and plug holes in the inner rear quarter.

Body Sealer Types and Applications

Seam Sealer

- heavy-bodied, non-sag adhesive/sealer used on standing cosmetic seams, truck bed seams, tooled door skin seams and floorpans.
- can be used on water leaks and noise concerns.

Silicone Gasket and Sealant

- form-in-place gasket and multi-purpose adhesive/sealant.
- room temperature curing silicone rubber.

Silicone Spray Lubricant

- keeps the door and window weatherstrip pliable and soft.
- makes the door easier to close.
- retards weatherstrip squeaks.