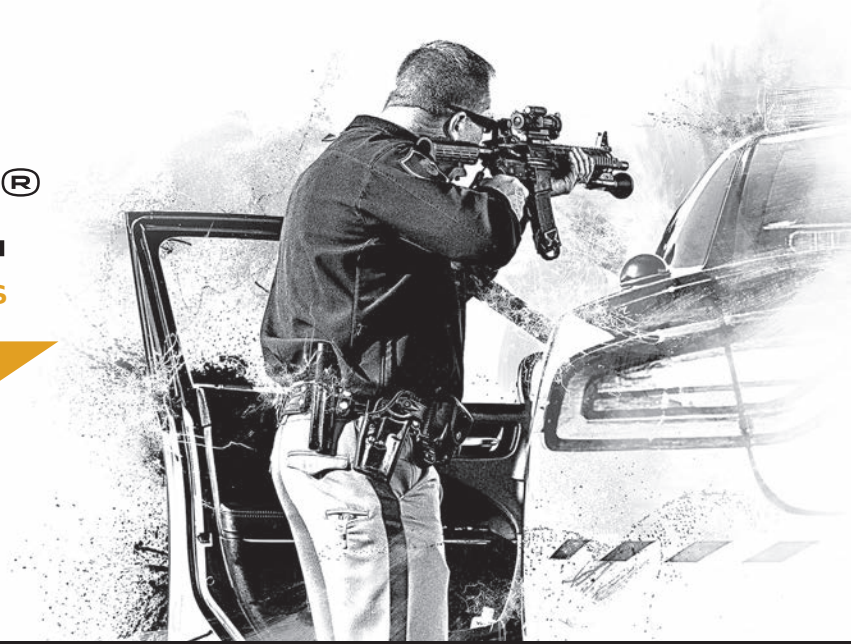




AVAIL[®]

BALLISTIC DOOR PANELS

LEVEL III + M855/M193/MSR



INSTALLATION GUIDE

for front driver and
passenger-side doors

As shown on

CHEVROLET[®] BLAZER EV

(2024 & Newer Models)



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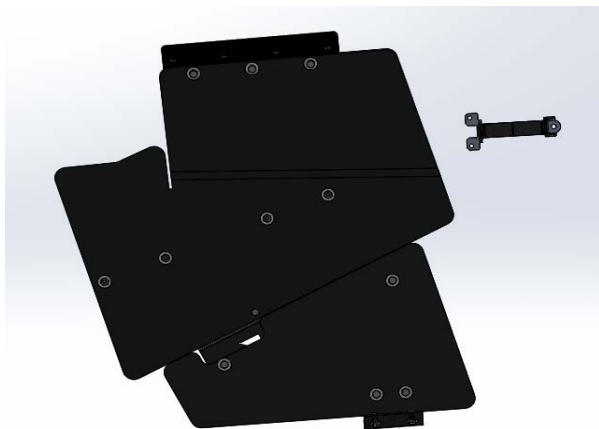


INTRODUCTION

Congratulations on your purchase of the Angel Armor® Avail Ballistic Door Panel (Level III+) for Chevrolet Blazer EV (2024 - Newer Models)! It's our honor to provide advanced protection to those who put their lives on the line in the name of law and order.

Your vehicle will soon be upfitted with the finest ballistic technology available. With optimized coverage area, a seamless design and powerful protection from NIJ Level III rifle threats, Avail elevates vehicle protection to a higher level.

Product Description



▲ Figure 1. Angel Armor Avail Ballistic Door Panel (Level III+) for Chevrolet Blazer EV (2024 - Newer Models)

The Avail Level III+ armor panel is made of a premium steel plate packed with superior protective capabilities. This high-strength solution features discreet, seamless coverage in a single-piece design and a weatherproof coating to help resist environmental wear and corrosion. The alloy steel crash bar brackets

and door mounting bracket secure the armor in place to help prevent rattling and shifting within the door and a nylon check strap is included to preserve door functionality and hinder over-extension.

When fully installed, the complete Avail Level III+ ballistic armor package gives officers the ability to use their door as a tactical shield against rifle-round threats without compromising the integrity/functionality of the vehicle door.

Avail exceeds NIJ Level III Standard 0108.01 protocol for multi-round protection and offers a five-year express limited warranty.

Installation Overview

The ballistic door panel installation shown in this guide was performed on the front driver-side door of the Chevrolet (2024 - Newer Models). The installation process is the same for front driver-side doors of the Chevrolet Blazer EV (2024 - Newer Models).

Avail Level III+ armor features a simple installation starting with applying the door hinge check strap. Door disassembly is required to install the crash bar brackets and door mounting bracket. Once this is completed, the armor is secured in place and the vehicle door panel is reassembled. Installation takes approximately 1.5 - 2 hours per vehicle door.



Warnings and Cautions

Please adhere to the following guidelines to prevent personal injury, equipment damage and unnecessary difficulty during installation.



DISCONNECT THE VEHICLE BATTERY AFTER THE WINDOW IS ADJUSTED FOR REMOVAL/ INSTALLATION TO AVOID ACCIDENTAL AIRBAG DEPLOYMENT. ACCIDENTAL DEPLOYMENT OF THE AIRBAG MAY CAUSE SERIOUS PERSONAL INJURY.

-  Read this guide in its entirety before beginning installation.
-  Wear appropriate protective gear, including eye, hand and foot protection.
-  Use extreme caution when transporting the ballistic door panel. The armor panel is very heavy and impact may result in serious injury.
-  To avoid muscle strain or back injury, use lifting aids and proper lifting techniques when transporting the ballistic door panel.
-  Avoid excessive force when inserting the armor into the car door. Excessive force may damage the weatherstripping or scratch finished surfaces.
-  Avoid puncturing speakers with screws, push-snaps, fasteners or other sharp pieces during door disassembly, panel insertion and door re-assembly.



Do not drop screws or other assembly components inside the door, as they may be difficult to retrieve. If possible, use magnetic tools during installation.



Use only plastic trim removal/prying tools on finished surfaces to help prevent scratching.



Discard and replace any door components that are inadvertently damaged during the installation process. Proper installation according to the instructions in this guide should not cause damage to any vehicle or window armor parts or components.



Use caution when removing parts that may have sharp edges, such as the outer window weatherstrip.

Legal Statements

See Warranty and Terms and Conditions for important legal information on angelarmor.com. These instructions are provided for your convenience only, and Angel Armor expressly disclaims any liability for any damage to personal property or personal injury that occurs as a result of either installation or removal of panels.



PARTS & TOOLS LIST

This section lists the parts included in the installation kit and the tools recommended for installation. Installation kit contents are for one door panel.

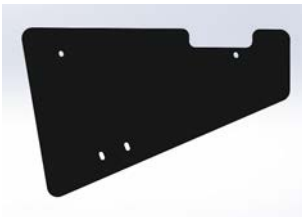
Installation Kit Contents

- One Upper Avail Ballistic Door Panel (Level III+) for Chevrolet Blazer EV (2024 - Newer Models)



▲ Figure 2. Avail Ballistic Door Upper Panel for Chevrolet Blazer EV (driver side part shown)

- One Lower Avail Ballistic Door Panel (Level III+)



▲ Figure 3. Avail Ballistic Door Lower Panel for Chevrolet Blazer EV

- Avail Upper Bracket



▲ Figure 4. Render of Upper Bracket (driver side part shown)

- One Avail Crash Bar Bracket



▲ Figure 5. Render of Crash Bar Bracket

- One Bottom Bracket



▲ Figure 6. Render of Bottom Bracket

- One Avail Check Strap



▲ Figure 7. Render of Check Strap
NOTE: Actual strap varies in appearance

- Two 10mm M6 Flange Bolt



▲ Figure 8. 10mm M6 Flange Bolt

- Four Hammer Nuts



▲ Figure 9. Hammer Nuts



■ Two Avail Nylon Installation Strap



▲ Figure 10. Render of Checkstrap

■ Seven 20mm M8 Bolts with Loctite Patch



▲ Figure 11. Seven 20mm M8 Bolts with Loctite Patch

■ Four 25mm M8 Bolts without Loctite Patch



▲ Figure 12. 25mm M8 Bolts and Washers

■ Panel Bonding Adhesive



▲ Figure 13. 25mm M8 Bolts and Washers

■ Eleven M8 Washers



▲ Figure 14. 20mm M8 Washers

■ Two 20mm M6 Bolts



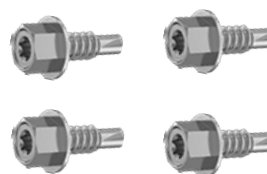
▲ Figure 15. 20mm M6 Bolts

■ Two M6 Washers



▲ Figure 16. M6 Washers

■ Four Self-tapping Screws



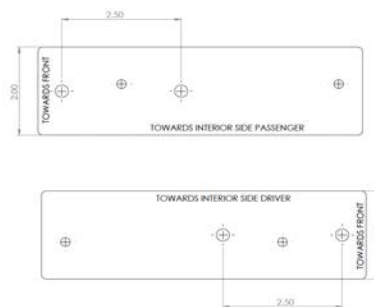
▲ Figure 17. Self-tapping Screws

■ One Rubber Bumper



▲ Figure 18. Rubber Bumper

■ One Drill Template (Appended at the end of guide)



▲ Figure 19. Drill Template

Installation Kit Contents CONTINUED

- One Isopropyl Alcohol Wipe



▲ Figure 20. Isopropyl Alcohol Wipe

- One Brand Label



▲ Figure 21. Angel Armor Brand Label

Personal Protective Equipment

- Protective Gloves
- Protective Eye wear
- Steel-Toe Boots

Required Tools

- 13mm Socket
- 13mm Open Ended Wrench
- Impact Drill
- T27 Bit
- 1/4" Impact Extension
- Panel Removal Tool
- 5/16 Drill Bit

- Drill
- Flat Head Screwdriver
- Small Pick
- Marker/Center Punch
- Panel Bond Gun
- Torque Wrench
- Trim Pry Tools
- Needle Nose Pliers
- Isopropyl Alcohol Wipe

Recommended Tools

- De-burring Tool
- Magnetic Tray
- Touch-up Paint
- Magnetic Retrieval Tool
- Headlamp or Flashlight



INSTALLATION

This section provides instructions for installing Angel Armor Avail Ballistic Door Panels (Level III+) into the Chevrolet Blazer EV (2024 - Newer Models.)

Overview

Installation of the Angel Armor Avail Ballistic Door Panel (Level III+) into a Chevrolet Blazer EV is simple. Door disassembly is required to install the check strap crash bar brackets, and armor mounting brackets. Once this is completed, the armor is secured in place and the vehicle door panel is quickly reassembled. See page 9 for detailed instructions.

General Installation Procedure

- 1** Remove vehicle door panel, weather strip, window and window regulator.
- 2** Install the Crash Bar Bracket.
- 3** Install the Lower Bracket.
- 4** Install the Lower Armor.
- 6** Install the Upper Armor.
- 6** Install the Upper Bracket.
- 7** Install the Check Strap.
- 8** Re-assemble the door.

Important Notes

- The directions, photographs and illustrations in this guide depict an installation performed on the driver side. The same installation procedure applies to the passenger door.
- Note the location of screws, fasteners, wires and door components before disassembling to aid proper re-assembly after panel installation.
- Place all removed hardware and components in a safe place or magnetic tray during installation.
- The Avail Level III+ armor panel is made of a premium steel plate. This protective material is heavy and extra caution should be taken when transporting, handling and installing the armor.
- Firm pressure may be needed to clear minor obstructions during insertion of the ballistic panels but never use excessive force. Excessive force may damage internal door components.

- ⚠ Use extreme caution when transporting the ballistic door panel. The armor panel is very heavy and impact may result in serious injury.**
- ⚠ To avoid muscle strain or back injury, use lifting aids and proper lifting techniques when transporting the ballistic door panel.**
- ⚠ Wear appropriate protective gear, including eye, hand and foot protection. Protective gloves are highly recommended when handling the steel armor.**



PROCEDURE

Complete the following steps to properly install Angel Armor Avail Ballistic Door Panels (Level III+) for Chevrolet Blazer EV (2024 - Newer Models).

Removing Interior Panel

- 1** Push vehicles start button with foot off brake pedal to turn on ACC.
- 2** Roll window ½ way down.
- 3** Push the start button to power off Accessories.
- 4** Remove screw at bottom of the door with 7mm socket.
- 5** Remove rubber pad on the interior door panel handle.
- 6** Remove screw with 7mm socket.



▲ Figure 22. Removing screw at the bottom of the door



▲ Figure 23. Removing screw with 7mm socket

- 7** Gently pry from the rear edge of door to remove interior panel.

NOTE: cables and wiring will still be attached.

- 8** Disconnect interior handle cable.



▲ Figure 24. Disconnecting interior handle cabler

- 9** Disconnect door control panel wiring and set panel aside.



▲ Figure 25. Disconnecting door control panel wiring

- 10** Remove 2 screws on the handle bracket.



▲ Figure 26. Removing 2 screws on handle bracket

- 11** Remove vapor barrier and set aside to reduce debris sticking to the back.
CAUTION: barrier is easily torn



Removing Interior Panel CONTINUED

- 12 Remove speaker screw with 7mm socket.



▲ Figure 27. Removing speaker screw

- 13 Remove and disconnect wiring harness from speaker.

Removing Window Regulator & Replacing Bolts

- 1 Loosen 2 window bolts with 10mm socket/ wrench.
- 2 Remove window by lifting and rotating towards front of the vehicle and place in a safe location.
- 3 Disconnect wire harness from window regulator motor.
- 4 Remove 4 window regulator nuts.



▲ Figure 28. Removing window regulator nuts

- 5 Remove the window regulator from the door and attach the nuts back to regulator.

- 6 Swap 2 window screws with provided M6x10mm flange bolts.

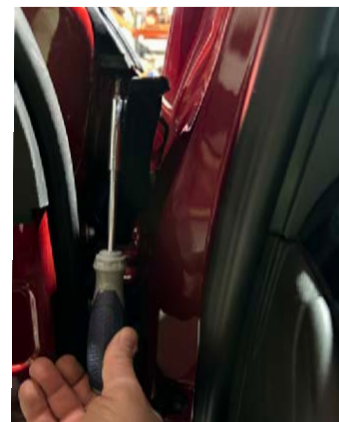
Removing the Exterior and Interior Window Trim

- 1 Remove 2 plastic clips from front edge of door and move plastic trim aside to gain access to the trim screw.



▲ Figure 29. Removing 2 plastic clips and trim from front edge of door

- 2 Remove T20 screw from front edge of door.
- 3 Remove T20 screw from rear edge door.
- 4 Remove the exterior trim, starting from the rear of the door and working towards the front.

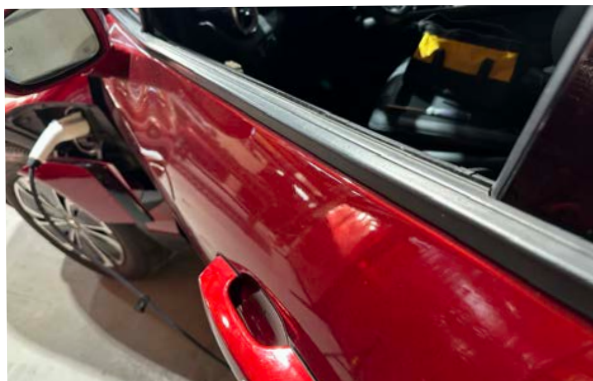


▲ Figure 30. Removing exterior trim



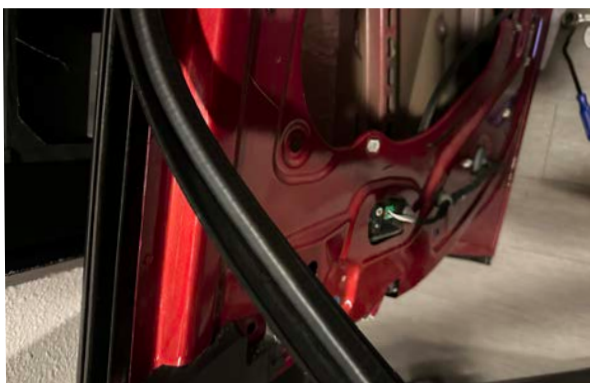


▲ Figure 31. Removing exterior trim



▲ Figure 32. Removing exterior trim

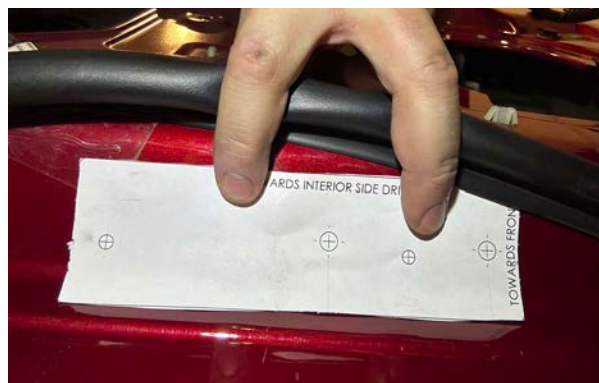
- 5** Remove rubber interior window trim, work from rear of the door to the front.



▲ Figure 33. Removing rubber interior window trim

Drill Lower Bracket Holes

- 1** Pop the bottom front 4 clips of the door seal to gain access to the drill template location.
- 2** Align drill template on bottom of door. This will be located bottom of the door between the speaker and bottom screw mount from interior door panel.
 - o Verify printed template is to scale with provided measurements
 - o TWO SMALLER template holes will align with door seal clip; it is 3rd one in from front
 - o Shining a light inside the door will help with locating



▲ Figure 34. Aligning drill template on the bottom of the door

- 3** Mark two larger holes with marker or center punch.
- 4** Use 5/16 drill bit to drill through holes in the door.
- 5** Deburr and paint exposed steel to prevent corrosion.



Installing Crash Bar Bracket

- 1 Place crash bar bracket on the crash bar.

NOTE: It will sit between two tabs on lower section of the bar



▲ Figure 35. Placing crash bar bracket on the crash bar

Installing Lower Armor

- 1 Loosely place lower bracket inside door aligning with drilled holes door.
- 2 Loosely install M6x20mm bolts with washers to lower bracket.



▲ Figure 36. Installing bolts with washers to lower bracket

- 3 Slide smaller armor section into door and loosely bolting to crash bar bracket and lower bracket with M8x20mm bolts and washers.
- 4 Torque M8 bolts to 18 ft-lbs.
- 5 Torque M6 bolts to 9 ft-lbs.

Installing Upper Armor

- 1 Using hammer nuts and bolts **without** Locktite patches, loosely install bolts through upper door armor.



▲ Figure 37. Installing bolts through upper door armor

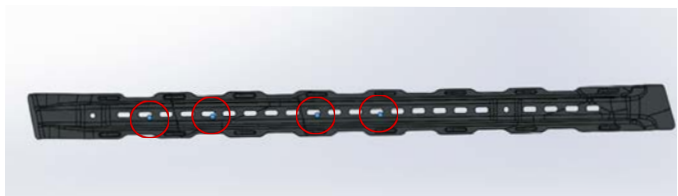
- 2 Prep upper bracket mounting area by roughening surface with 80 grit and clear debris. This will help promote surface adhesion.
- 3 Lower the upper armor panel into door through the window opening with armor straps.



Installing Upper Armor CONTINUED

- 4 Align hammer nuts to fit into the middle crash bar slots.

NOTE: the armor will sit flush with the middle crash bar when properly installed.



▲ Figure 38. Reference to show slot locations of where the hammer nuts go. (2nd, 5th, 10th, and 13th slot, counting from the rear to the front of door)

- 5 Position hammer nut and bolt into middle crash bar through armor slots and middle crash bar. Apply pressure with a panel removal tool under the bolt head to pull hammer nut into position.

NOTE: the Hammer nuts will twist 90° and lock into position to allow tightening.

TIP: Loosely tighten outside bolts before moving to inside bolts on the middle crash bar.



▲ Figure 39. Positioning hammer nut and bolt into middle crash bar

- 6 Apply panel adhesive to upper section of the upper bracket.



▲ Figure 40. Applying panel adhesive to upper section of the upper bracket

- 7 Install upper bracket on armor loosely with M8x20mm bolts bracket.

- 8 With self-tapping bolts, screw upper bracket flush to interior sheet metal. **Do not over torque.**

NOTE: Bracket surfaces need to be flush with the interior sheet metal.



▲ Figure 41. Example of bracket surfaces sitting flush with the interior sheet metal

- 9 Torque M8 bolts to 18ft-lbs

- 10 Torque M6 bolts to 9 ft-lbs



Installing Check Strap

- 1 Remove nuts from factory door stop on the door side with 10mm socket.



▲ Figure 42. Removing nuts from factory door stop

- 2 Install Door side bracket of check strap to door. Tighten nuts to factory specs.
- 3 Remove bolt on the door stop at pillar side of the vehicle with 10mm socket.
- 4 Position check strap under door stop mount.

NOTE: webbing should be on the front/interior side of vehicle when installed.
- 5 Reinstall bolt and torque bolt to factory specs. .

Replace Window Regulator and Window

Reinstall window regulator in reverse order of removal .

Replace Interior Panel

Reinstall interior trim in reverse order of removal.

Reinstall exterior trim

Reinstall exterior trim in reverse order of removal.



Completing Installation

- 1** Verify that all trim and window components are properly re-installed and that the window, door locks and mirrors function as intended.
- 2** Once armored, the vehicle door may require additional adjustment at the hinges for proper closing and matching of body lines. Conduct final door adjustment by completing the following steps:
 - A** Gently close door to check alignment.
 - B** Loosen the door side hinge nuts.
 - C** With the help of an assistant or door lift, apply gentle upward pressure on bottom of door and move in/out at top and bottom of door as required.
 - D** Re-torque bolts, gently close the door and inspect closure/alignment.
 - E** Repeat as necessary.
- 3** Attach the Angel Armor brand label toward the top of the interior door panel by completing the following procedure:
 - A** Clean the attachment area on the door with the supplied isopropyl alcohol wipe.
 - B** Allow the door surface to dry completely.
 - C** Remove the backing from the brand label.
 - D** Apply the brand label to the door, pressing for at least 30 seconds to ensure proper adhesion.



▲ Figure 43. Applying the brand label to the door

REMOVAL OR DECOMMISSION

If removing the armor for decommission or transfer to another vehicle, contact Angel Armor for support.

INSTALLATION COMPLETE:

Your vehicle is now equipped with Avail Level III+ — advanced ballistic protection from Angel Armor.



DRILL TEMPLATE

