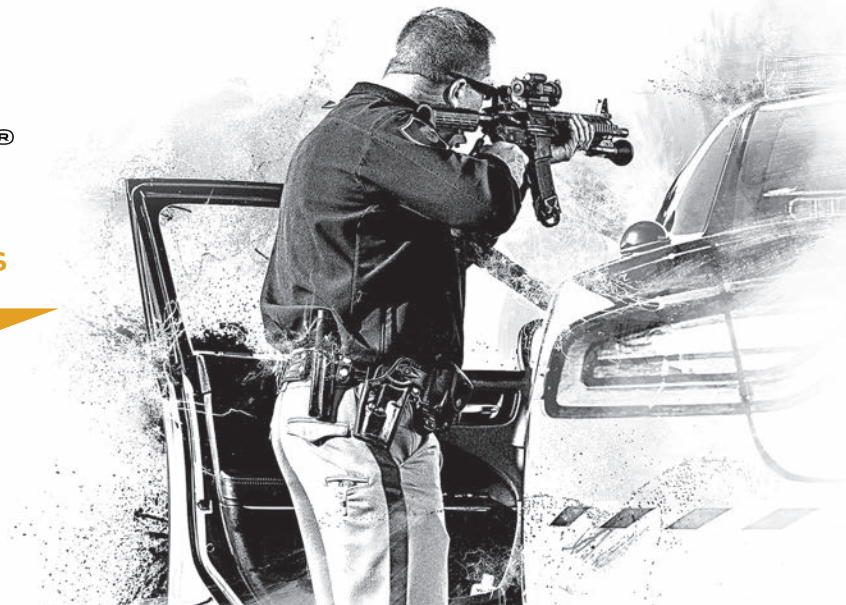




AVAIL[®]

BALLISTIC DOOR PANELS

LEVEL III + M855/M193/MSR



INSTALLATION GUIDE

for front driver and
passenger-side doors

As shown on

CHEVY TAHOE PPV

(2021 - Current Models)



Also compatible with

CHEVY TAHOE SSV

(2021 - Current Models)

CHEVY TAHOE

(2021 - Current Models)

CHEVY SUBURBAN

(2021 - Current Models)



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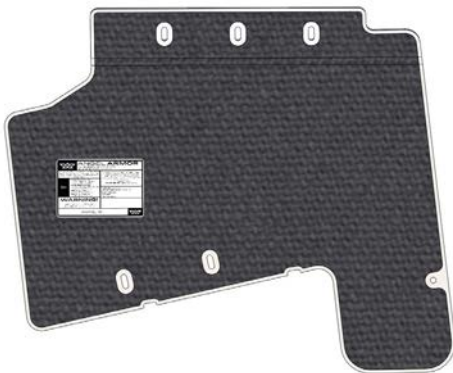
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INTRODUCTION

Congratulations on your purchase of the Angel Armor® Avail Ballistic Door Panel (Level III+) for Chevy Tahoe PPV (2021 - Current 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.



▲ Figure 1. Angel Armor Avail Ballistic Door Panel (Level III+) for Chevy Tahoe PPV (2021 - Current Models)

Product Description

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 Chevy Tahoe (2021 - Current Models.) The installation process is the same for front passenger-side doors of the Chevy Tahoe (2021 & 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 2-3 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 weather stripping 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 weather strip.

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.

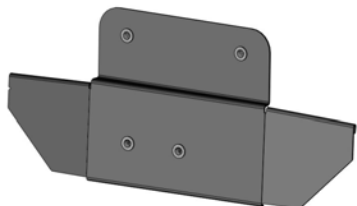
Installation Kit Contents

- One Avail Ballistic Door Panel (Level III+) for Chevy Tahoe PPV (2021 - Newer Models)



▲ Figure 2. Avail Ballistic Door Panel for Chevy Tahoe PPV

- One Avail Crash Bar Bracket



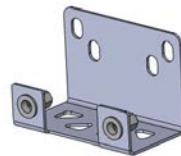
▲ Figure 3. Crash Bar Bracket

- One Avail Upper Mounting Bracket



▲ Figure 4. Upper Door Mounting Bracket

- One Avail Lower Mounting Bracket



▲ Figure 5. Lower mounting bracket

- One Avail Check Strap



▲ Figure 6. Render of Check Strap
NOTE: Actual strap varies in appearance

- Two Avail Nylon Installation Straps



▲ Figure 7. Installation Straps

- 2 Lower Crash Bar Bracket Mounting Bolts and 2 Washers



▲ Figure 8. Crash Bar Bracket Mounting Bolts and Washers



- 2 Upper Crash Bar Bracket Mounting Bolts and 2 Washers



▲ Figure 9. Upper crash bar bracket mounting bolts and washers

- 3 Upper Mounting Bracket Bolts and 3 Washers



▲ Figure 10. Upper Mounting Bracket bolts and washers

- 5 Upper Mounting Bracket Sheet Metal Screws



▲ Figure 11. Upper mounting bracket sheet metal screws

- 2 Lower Mounting Bracket Bolts and 2 Washers



▲ Figure 12. Lower mounting bracket bolts and washers.

- 1 Front Spacer Bolt, 2 Nuts, 2 Washers, and 1 Spacer Nut



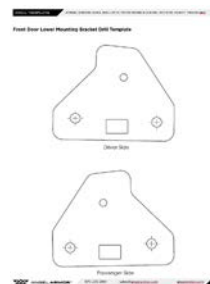
▲ Figure 13. Spacer Hardware

- Panel Bond Container (1 Nozzle Included)



▲ Figure 14. Panel Bond Container and nozzle

- One Drill Template Appendix A (appended to the end of the guide)



▲ Figure 15. Drill Template

- One Isopropyl Alcohol Wipe



▲ Figure 16. Isopropyl Alcohol Wipe

- One Brand Label



▲ Figure 17. Angel Armor Brand Label

Personal Protective Equipment

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

Required Tools

- Plastic Door Pry Tools
- Small Pick
- Flat Blade Screwdriver
- Impact Driver
- Electric Drill Screwdriver
- Needle Nose Pliers
- Socket Wrench
- 3/8" Universal Socket Joint
- 6" Socket Extension
- 7, 8, 10 and 13mm Sockets, and 1/2" Sockets and/or Ratchet Wrenches
- T15 Torx Driver
- 7mm Drill Bit
- Torque Wrench
- Marker
- Magnetic Parts Tray
- 13mm Crow Foot
- Panel Bond Gun (3M Plus 11 Epoxy Applicator H-7878 or equivalent)

Recommended Tools

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



▲ Figure 18. Panel Bond Gun



INSTALLATION

This section provides instructions for installing Angel Armor Avail Ballistic Door Panels (Level III+) into the Chevy Tahoe PPV (2021 & Newer Models.)

Overview

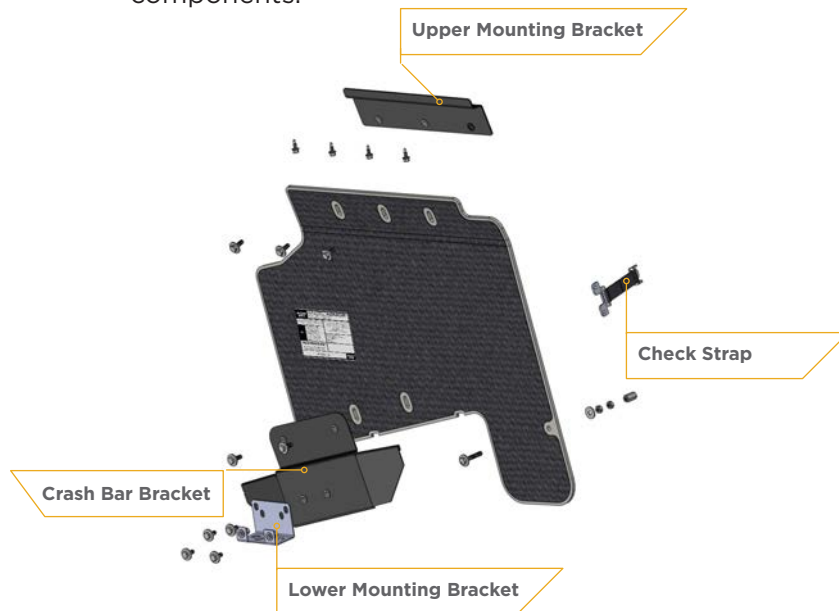
Installation of the Angel Armor Avail Ballistic Door Panel (Level III+) into a Chevy Tahoe PPV is simple and starts with applying the door hinge check strap. Door disassembly is required to install the crash bar brackets and armor mounting bracket. Once this is completed, the armor is secured in place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

General Installation Procedure

- 1 Install the check strap.
- 2 Remove the weatherstrip, vehicle door panel, speaker and window.
- 3 Install Crash Bar Bracket.
- 4 Insert the Avail Ballistic Panel.
- 5 Secure the Avail Ballistic Panel by installing Door Upper and Lower Mounting Brackets.
- 6 Re-assemble the door.

Important Notes

- The directions, photographs and illustrations in this guide depict an installation performed on the driver's 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.



▲ Figure 19. Rendering of assembled ballistic panel and mounting brackets (driver's side shown).

PROCEDURE

Complete the following steps to properly install Angel Armor Avail Ballistic Door Panels (Level III+) for Chevy Tahoe PPV (2021 - and Newer Models)

Installing Check Strap

- 1** Open the vehicle door to its fully opened position.
- 2** Locate the OEM (Original Equipment Manufacturer) check strap that connects the front, middle of the door to the A-pillar of the vehicle cabin.



▲ Figure 20. OEM check strap

- 3** Using a 10mm socket, remove the bolt from the check strap on the cab side of the vehicle. It may help to have an extension to access the bolt head.

- 4** Insert the smaller bracket on the A-pillar under the OEM check strap mount. Use the original bolt to securely fasten check strap mount to the A-pillar.



▲ Figure 21. Proper placement of the secured check strap.

- 5** Next, remove the two nuts securing the OEM check strap assembly to the door frame.
- 6** Pre-bend the nylon webbing check strap so that when the door closes, the nylon bends outward. Pre-bending the check strap gives the nylon material a “memory” to ensure it does not affect door closure.

Installing Check Strap CONTINUED

- 7 Install large the nylon check strap / bracket assembly by placing the bracket with two mounting holes over the threaded studs that mount the OEM check strap to the door frame. Use the OEM nuts to secure the bracket in place. This requires a slight angle to place.

⚠ NOTE: The installed strap helps prevent over-extension of the vehicle door. Adjustments to the door hinge will be made after armor is installed for proper alignment due to the added weight of the armor. Nut torquing will occur after final adjustment.



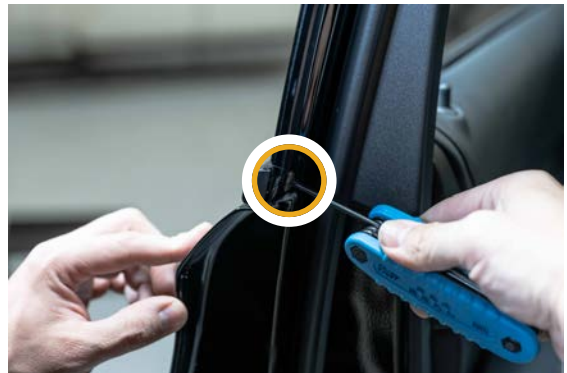
▲ Figure 22. Proper placement of the secured check strap

Preparing for Ballistic Door Panel Installation

- 1 Open the front driver-side door and lower the window glass completely.
- 2 Turn off the vehicle ignition switch and remove the key.

Removing Window Weatherstrip

- 1 Using a T15 driver, remove the window weatherstrip screw at the back of the door.



▲ Figure 23. Removing the back window weatherstrip screw

- 2 To remove weather stripping, push down and rotate the weather stripping towards the exterior and then lift.



▲ Figure 24. Removing the outer window weatherstrip



Removing Vehicle Door Panel and Speaker

- 1** Raise the window all the way to the top.
- 2** Using a trim pry tool or pick, remove the plastic trim cover behind the interior door handle.
- 3** Remove the 7mm hex bolt from behind the interior door handle.
- 4** Using a trim pry tool, remove the plastic trim cover in the armrest pocket.



▲ Figure 25. Removing the armrest pocket trim cover

- 5** Remove the two 7mm hex bolts from the armrest pocket.



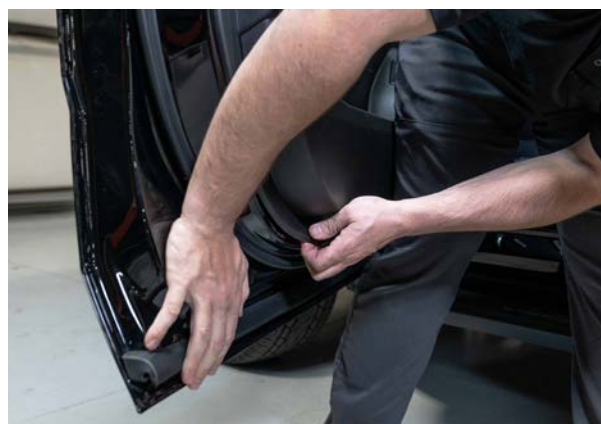
▲ Figure 26. Removing the armrest pocket bolts

- 6** Locate the two 7mm hex bolts from below the map pocket and remove.



▲ Figure 27. Removing the door panel bolts

- 7** Starting at the lower back corner, pry the interior vehicle door panel away from the door to disengage the plastic snaps. Work your way along the bottom edge and both sides of the door panel to disengage all the snaps.



▲ Figure 28. Prying the door panel away from the door skin

- 8** Once all snaps have been released, hold the vehicle door panel at the base and lift it over the door lock pin.

Removing Vehicle Door Panel and Speaker CONTINUED

- 9** Tilt the top edge of the door panel toward yourself while supporting the bottom with your legs.



▲ Figure 29. Tilting the door panel away from the door skin

- 10** Disconnect the wiring harness mount by pulling back the lock and unlatching the harness from the door panel.
- 11** Disconnect the door handle cable by squeezing the two prongs on the black plastic collar.
- 12** Pull the black plastic collar out of the bracket and swing the door handle cable away from yourself.

- 13** Lift the metal ball out of its socket (located at the end of the door handle cable).



▲ Figure 30. Removing the door latch cable

- 14** Set the door panel aside.
- 15** Use a 7mm driver to remove the 7mm hex screw that mounts the speaker.
- 16** Pull the speaker out of the door frame, and press the release tab to disconnect the power plug. Set aside.



▲ Figure 31. Disconnecting the speaker harness

Removing Vehicle Door Panel and Speaker CONTINUED

- 17** Remove the door handle mounting bracket by removing the two 7mm hex screws.

⚠ NOTE: Carefully remove the metal clips hooked on the door frame.



▲ Figure 32. Removing the door handle bracket

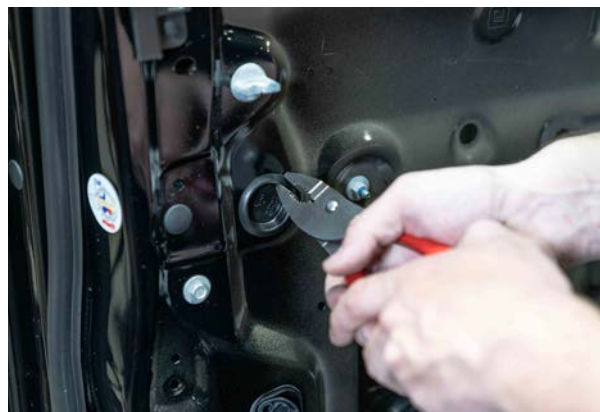
- 18** Remove the internal plastic weather seal, be careful not to tear it.



▲ Figure 33. Removing the weather seal

Removing Vehicle Window

- 1** Lower the window to the halfway point.



▲ Figure 34. Lowering the window

- 2** Lightly pry the plastic window clamps and lift the window of the door.
- 3** Reconnect the vehicle battery. Run the window regulator almost to the bottom of the regulator track.



▲ Figure 35. Moving the window down

Removing Vehicle Window CONTINUED

- 4 Carefully slide the window glass up and out of the door window channel to remove it and set aside.

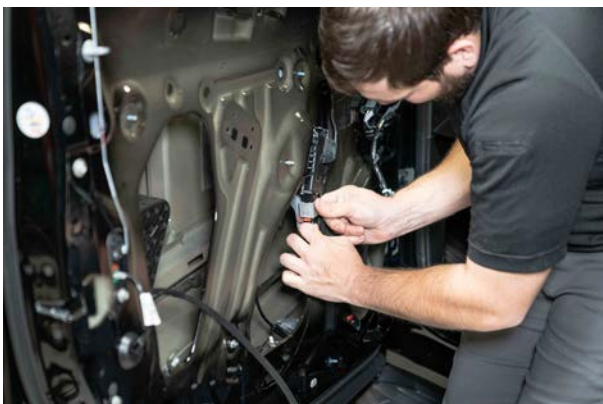


▲ Figure 36. Removing the window glass

NOTE: Unhook and remove window “clamps” for safe keeping.

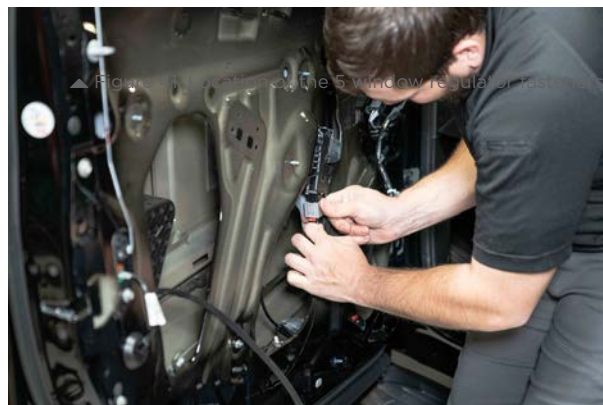
Removing Front Door Window Regulator

- 1 Disconnect the wiring harness from the window regulator.



▲ Figure 37. Disconnecting the window regulator wiring harness

- 2 Locate the 5 10mm hex nuts.



▲ Figure 38. Disconnecting the window regulator wiring harness

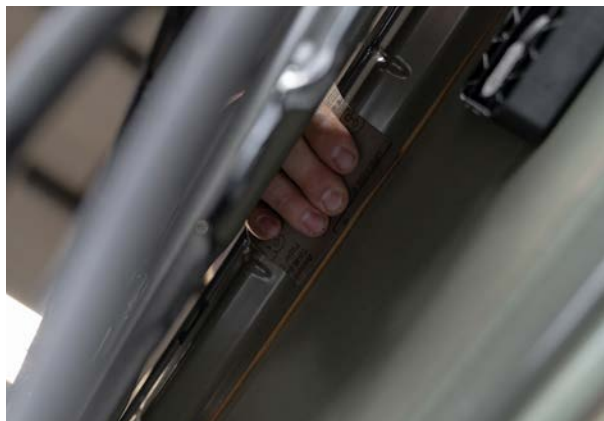
- 3 Remove the fasteners and pull the window regulator bracket from the door cavity and set aside.



▲ Figure 39. Removing the window regulator

Preparing Upper Bracket

- 1 Remove all rust, primer and paint from the top of door frame using a 50 grit sand pad.



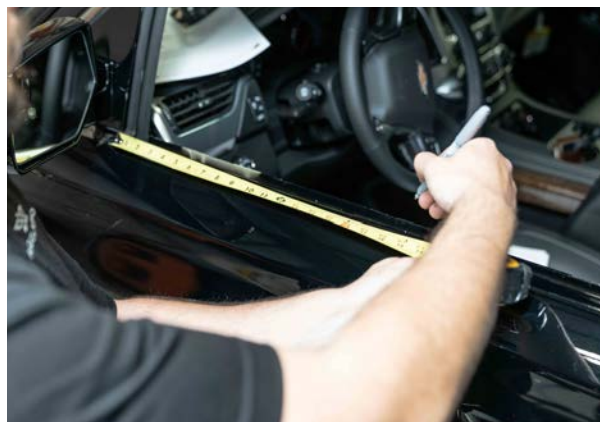
▲ Figure 40. Sanding the door frame for panel bond

- 2 Wipe all the remaining material away with isopropyl alcohol.
- 3 Locate the front edge sheet metal and measure back.

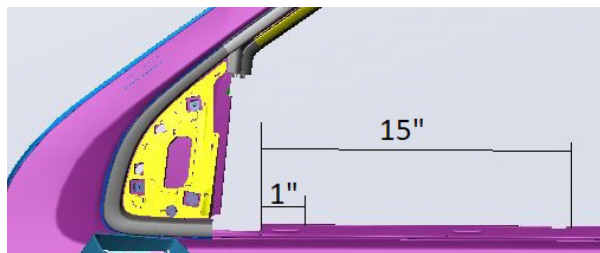


▲ Figure 41. Measuring start location

- 4 Measure 1 inch for the upper bracket and measure 15 inches.



▲ Figure 42. Marking Bracket locations



▲ Figure 43. Upper Mounting Locations



Removing OEM Door Foam Block

- 1 Locate the forward two white clips mounted at the bottom of the block and insert the door popping tool between the foam block and crash bar. Rock the tool until the clips are free of the crash bar.



▲ Figure 44. Location of the two foam mounting clips

- 2 Rotate the foam out and carefully peel away from the double-sided tape attached to the exterior sheet metal.

⚠ NOTE: Use caution when removing this part. It is attached to the exterior vehicle sheet metal which may cause warping or denting.



▲ Figure 45. Prying out the foam block

- 3 This part is not reinstalled after the armoring. You can dispose of it or keep it to be reinstalled if the vehicle is decommissioned.



Inserting Door Crash Bar Mounting Bracket

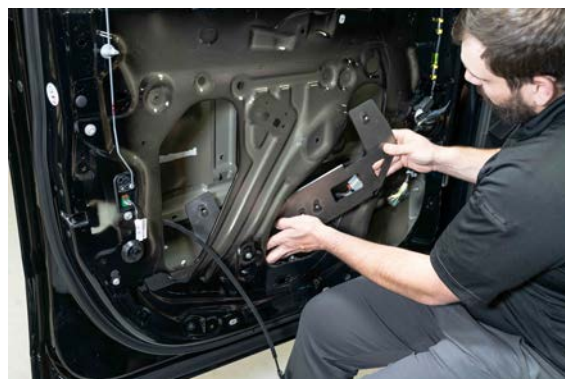
- 1 Locate the lower mounting bracket drilling template that came with the kit (Appendix A appended to the end of this guide). Cut out the template and holes within for the corresponding door (driver or passenger side). Position the template over the hole in the lower center of the inner door skin as shown and use the profile to align the position of the one square hole to be drilled and use a marker to mark the holes.



▲ Figure 46. Making the hole locations using the template provided (appended at the end of this guide)

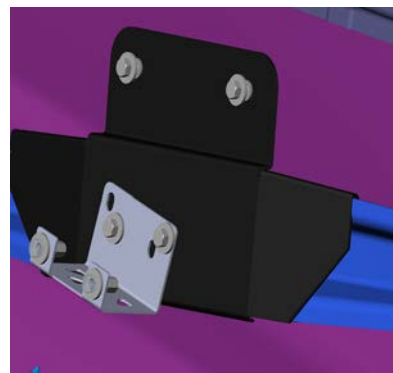
- 2 Center punch the hole locations. Using a 7mm drill bit, drill the two holes and use a deburring tool to deburr the edges. Apply a thin coat of black touch-up paint to each hole to prevent corrosion.

- 3 Insert the Crash Bar Mounting Bracket into the door cavity via the large access hole and position the bracket such that the bent tab of the bracket hooks onto the top of the crash bar.



▲ Figure 47. Inserting the Crash Bar Mounting Bracket through the door opening

⚠ NOTE: Make sure the Crash Bar Mounting Bracket sits on the upper and lower rails of the crash bar. Pushing firmly on the bracket should allow it to sit flush.



▲ Figure 48. Cross section of the Crash Bar Mounting Bracket placed on the crash bar.

Inserting Door Crash Bar Mounting Bracket **CONTINUED**

- 4** Insert the lower mounting bracket into the door cavity through the speaker hole. Slide it from the bottom in line with the newly drilled holes. Manipulate the bracket so the slots in the bracket align with the holes in the armor panel and the two bolt holes in the inner sheet metal align with the M8 rivnuts. Slide the panel left and right until all of the holes line up and then hand start the M8 bolts.

⚠ NOTE: Later in the installation, this part needs temporary removal to make clearance for the window regulator re-installation.



▲ Figure 49. Lower Mounting Bracket loosely installed

- 5** Bolt the lower inside bracket to crash bracket.



▲ Figure 50. Crash Bar Mounting Bracket placed on crash bar

Inserting and Securing Ballistic Door Panel

- 1 Locate the two nylon installation straps. These adjustable straps are included to help support the weight of the steel armor while installing it into the door.
- 2 Loop the installation straps around the door with the adjustment feature of the straps easily accessible to the inner side of the door. The straps should create a cradle in the center in the window channel of the door, between the inner and outer skin. Direct the male side of the clip facing down for ease of adjustment. See Figures below.



▲ Figure 51. Looping the installation straps around the door



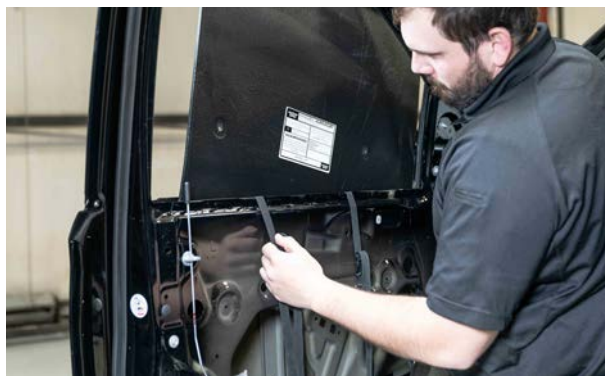
▲ Figure 52. Strap path through buckle and buckle direction

- 3 Hold the ballistic door panel so the product label faces the interior of the vehicle.
- ⚠ **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.**



Inserting and Securing Ballistic Door Panel **CONTINUED**

- 4 Carefully insert the armor through the window opening and into the cradle created by the installation straps. Ensure the straps align with the slots on the bottom of the armor panel to prevent the panel from slipping while lowering into the door.



▲ Figure 53. Placing the armor into the door

- 5 Slowly adjust the left and right installation straps to begin to lower the armor into the door. Stop when the lower bolt holes align with the holes in the crash bar bracket.



▲ Figure 54. Using the cradle created by the installation straps to lower the armor into the door.

bar, loosely install the front crash bar M8x30mm bolts with washers through the holes at the center portion of the armor. Then place the two M8x20mm bolts and washers into the remaining two mounting holes of the crash bar bracket and loosely thread into the crash bar bracket, leaving approximately 1/4" (6mm) of threads showing. These bolts will be tightened later in this installation.



▲ Figure 55. The front, top of the crash bar bracket loosely installed

- 7 With the front and rear crash bar bolts loosely in place, lower the installation straps so that the full weight of the armor panel rests on the bolts. Remove the two installation straps and discard them. (The clips on the straps will need to be removed so the straps can be pulled out of the door skin.)



▲ Figure 56. The front, top crash bar bracket loosely installed



Inserting and Securing Ballistic Door Panel **CONTINUED**

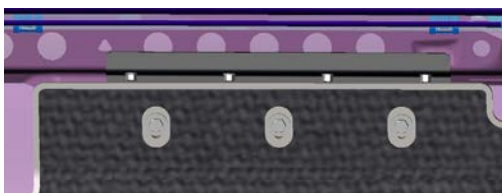
- 8** At the top of the armor, use a 13mm ratcheting end wrench to loosely attach the top mounting bracket to the armor as shown using the three 8mm x 20mm bolts. Ensure the bracket presses up against the top of the door frame.



▲ Figure 57. Loosely installed upper mounting bracket

! NOTE: Foam adhesive might need to be removed to allow the top bracket to slide into place.

- 9** Ensure that the top bracket slides up and down freely to hook onto the metal lip in the door.



▲ Figure 58. Rendering of cross section of upper mounting assembly.

- 10** Sand the inside of the support bracket to give the adhesive some “tooth” to attach. Then clean with isopropyl alcohol to remove residue and dust.
- 11** Dry fit the Support Bracket to the inside of the door frame and line it up to the previously marked ~15” mark.

! NOTE: When working with this adhesive it is recommended that you wear gloves and mask the outside of the door to prevent accidental adhesive contact with the outside door paint.

- 12** Remove the bracket and prepare to use the 3M panel bond. Be sure to apply a practice bead on something disposable. Apply a single 1/4” bead down the inside bend of the top bracket. Move to the two flat surfaces and apply a “S” type bead making sure to not go all the way to the edge of the part. Once both sides are covered you can place the part and hold it until it sets up.

Inserting and Securing Ballistic Door Panel CONTINUED

- 13** It is critical the adhered top bracket is tight at the top of the door frame to prevent interference with the window.



▲ Figure 59. Support Bracket aligned and installed

- 14** Using a 3/8" socket and impact driver, insert five sheet metal screws through the five holes at the top of the upper door-mounting bracket to attach it to the door frame. Make sure that this screwed in part is tight to the outside of the vehicle to prevent interference with the window.

⚠ NOTE: The sheet metal screws will drill five cavities into the metal portion of the door frame and will not show through the outside of the door skin. Ensure the screws are drilled into flat areas of sheet metal by shifting the loosened armor panel left or right as necessary. **DO NOT OVER-TIGHTEN** these screws as it could strip out the sheet metal.

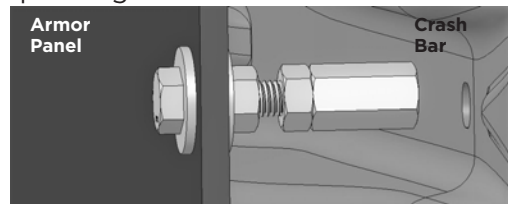
- 15** Locate the front mounting hole of the armor panel and insert the M8 X 50 with a washer at the head of the bolt.

- 16** Add a washer, two M8 Nuts and the M8 Spacer Nut on the end of the bolt on the bold of the panel.



▲ Figure 60. M8 X 50 bolt

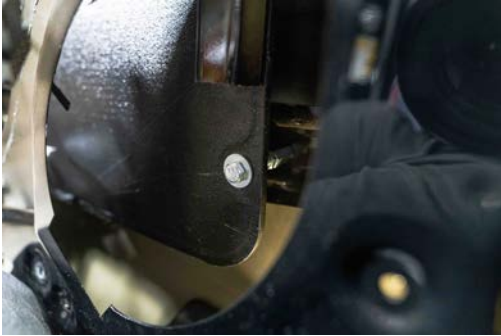
- 17** Tighten the first nut to the back of the panel. This will allow the spacer nut to press against the inside the crash bar.



▲ Figure 61. Rendering of spacer assembly

Inserting and Securing Ballistic Door Panel CONTINUED

- 18** Once the spacer nut is pressed against the crash bar, without adding tension against the front window track, run the second jam nut against it to set them into place.



▲ Figure 62. Spacer Assembly Installed

- 19** Confirm the armor is in its final position by checking the following:

- The armor sits flush to the crash bar.
- The bottom mounting bracket sits flush with the armor panel and mounts tightly to the inner side of the door frame.
- The door handle wiring harness connector sits freely and is not pinched by the upper edge of the armor panel.
- Firmly grip the armor panel and attempt to shake - there should be no movement of the armor panel.
- Check that the front edge of the panel is parallel with the front window track.
- Torque all M8 bolts to 18ft/lbs.
- Check that all bolts are torqued appropriately.



Replacing Front Door Window Regulator

- 1** Remove the Lower Mounting Bracket by removing the two M8 x 30 bolts and two M8 X 20 bolts. Lower the bracket and bring through the speaker hole.
- 2** Reconnect the window regulator to the door switch and run the window clamps to the top location.
- 3** Insert the rear section of the window regulator to the front opening starting with the top and then rotate the bottom in. Slide it to the rear section of the door.



▲ Figure 63. Inserting the rear section of the window regulator.

- 4** Repeat this with the front section of the window regulator and start from the top and rotate the bottom in.
- 5** Align the five mounting holes for the regulator assembly. Replace and secure the two 10mm hex nuts on the rear section. Then start and install the other three on the front section.



▲ Figure 64. Tightening the regulator mounting bolt

- 6** Reconnect the window regulator to the door switch panel and run the window clamps to lowest location.



Reinstalling Lower Mounting Bracket

- 1 Insert the lower mounting bracket into the door cavity through the speaker hole. Slide it from the bottom in line with the previously drilled holes. Manipulate the bracket so the slots in the bracket align with the armor panel and the two bolt holes in the inner sheet metal align with the M6 weld nuts. Install the M8 and M6 bolts into the bracket.



▲ Figure 65. Installing the lower mounting bracket

NOTE: Torque M8 bolts to 18ft/lbs

Replacing Front Door Window

- 1 Locate the two mounts for the rear window track.



▲ Figure 66. Mounting locations for the rear window track

- 2 Remove the upper bolt making sure to not push the backer nut off the window track.



▲ Figure 67. Remove the upper window track bolt



Replacing Front Door Window CONTINUED

- 3 Loosen the bottom nut to allow the window track to rotate away.



▲ Figure 68. Loosening the rear window track

- 4 Carefully insert the window glass from outside the door into the window channel and lower into the door cavity. Start by settling the front corner into the front window track and get the rear started into the track. Work down and rotate the glass until it is in the tracks.



▲ Figure 69. Inserting the window glass into the window tracks

! NOTE: Do not force the glass into place. Firm and even pressure is sufficient.

- 5 Guide the glass into the clamps.

- 6 Reconnect the regulator and run the window to the highest location.

Replacing Speaker and Vehicle Door Panel

- 1 Remove the five (5) metal clips from the interior door panel and reattach to the interior skin. Then place the interior weather strip over the top of the clips.



▲ Figure 70. Removing the metal clip from the interior panel



▲ Figure 71. Metal clip reinstalled to the door with the weatherstrip over the top



Replacing Speaker and Vehicle Door Panel **CONTINUED**

- 2** Reinstall the interior weatherstrip and upper window trim with the two retaining clips.
- 3** Re-attach the internal plastic weather seal around the rear access hole.
- 4** Place the speaker in the door frame and mount to the door using the hex screw and connect the power plug.
- 5** Reinstall the door handle mounting bracket.
- 6** Hold the door panel near the door frame and title the top toward yourself while supporting the bottom edge with your legs.
- 7** Connect all wiring harness clips.
- 8** Replace the metal cylinder ball in its socket in the interior door handle.
- 9** Pull the black plastic collar away from the bracket and place the metal cable into the bracket.
- 10** Slide the black plastic collar into the bracket until the two plastic prongs snap securely in place.
- 11** Align the door lock post with the hole at the upper rear corner of the door panel.
- 12** Lower the door panel onto the lip at the top of the metal door frame and press firmly until seated.
- 13** Line up the white plastic snaps and the black plastic peg on the back of the door panel with their corresponding holes in the metal door frame.
- 14** Firmly tap on the snaps along the bottom edge of both sides of the door panel.
- 15** Use a 7mm socket to replace the bolts behind the interior door handle and armrest pocket.
- 16** Snap the black plastic trim covers back into their locations behind the door handle and inside the armrest pocket.
- 17** Install the two 7mm bolts below the map pocket of the door panel.
- 18** Connect the window control panel wiring harness.
- 19** Replace the window control panel.
- 20** Reconnect the vehicle battery.
- 21** Roll the window all the way down.

Replacing Window Weatherstrip

- 1** Press down on the front end of the weather strip and move backward. Pressing the entire length of the weatherstripping into the window frame to ensure proper snap engagement.
- 2** Using a T15 driver, replace the weatherstripping screw at the back of the door.



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.



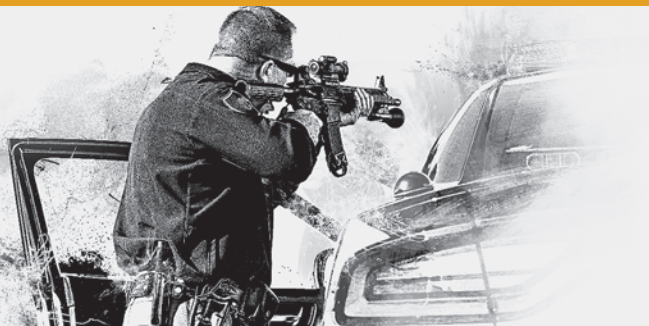
▲ Figure 72. Applying the Angel Armor brand label

REMOVAL OR DECOMMISSION

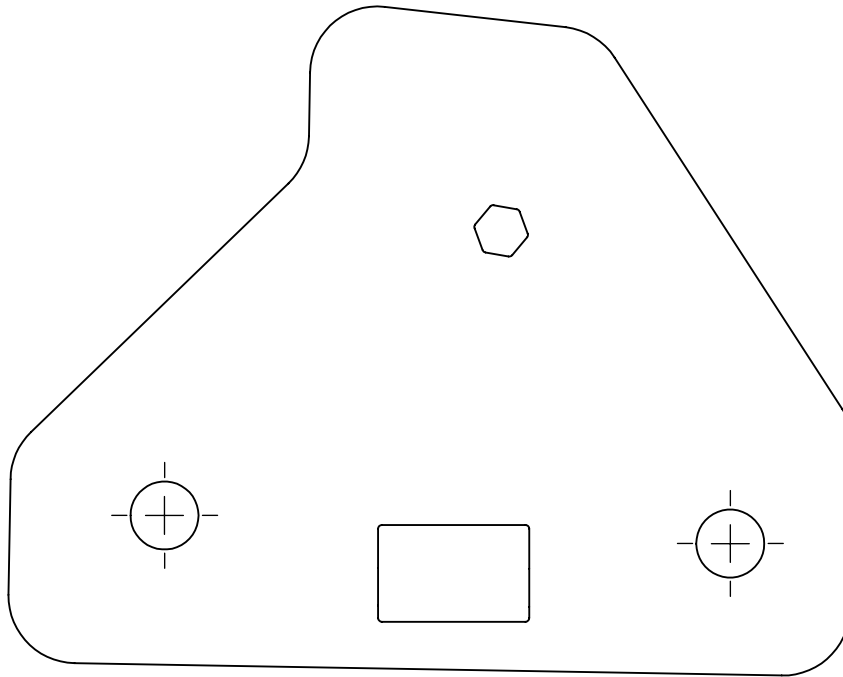
If removing the armor for decommission or transfer to another vehicle, contact Angel Armor for support.

INSTALLATION COMPLETE:

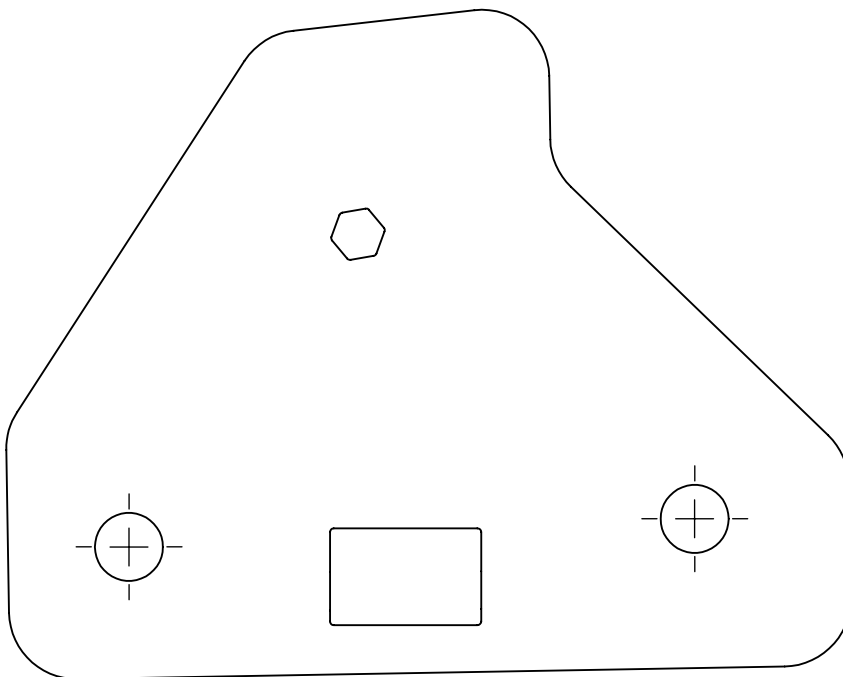
Your vehicle is now equipped with Avail Level III+ — advanced ballistic protection from Angel Armor.



Front Door Lower Mounting Bracket Drill Template



Driver Side



Passenger Side