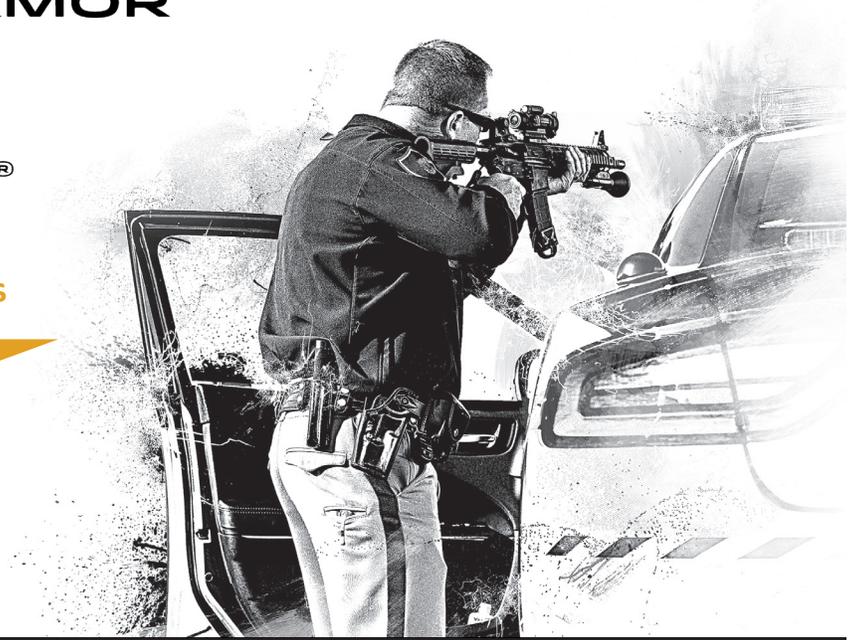




AVAIL[®]

BALLISTIC DOOR PANELS

LEVEL III + M855/M193/MSK



INSTALLATION GUIDE

for front driver and
passenger-side doors

As shown on
Dodge[®] Charger Pursuit
(2011 & NEWER MODELS)



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INTRODUCTION

Congratulations on your purchase of the Angel Armor® Avail Ballistic Door Panel (Level III+) for Dodge Charger Pursuit (2011 & 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.



▲ Figure 1. Angel Armor Avail Ballistic Door Panel (Level III+) for Dodge Charger Pursuit (2011 & Newer 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. Each purchase of Avail Level III+ Ballistic Door Panels comes standard with hinge reinforcements from the vehicle OEM. These reinforcements help strengthen the door hinge area to prevent door sag and fatigue due to the added weight of the armor panel.

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 Dodge Charger Pursuit (2011 & Newer Models). The installation process is the same for front passenger-side doors of the Charger Pursuit (2011 & Newer Models).

Avail Level III+ armor features a simple installation starting with applying the OEM door hinge reinforcements. 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. This includes the cure time for the OEM door hinge reinforcement adhesive.

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 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 Dodge Charger Pursuit (2011 & Newer Models)



▲ Figure 2. Avail Ballistic Door Panel for Dodge Charger Pursuit

- Three Avail Crash Bar Brackets



▲ Figure 3. Crash Bar Brackets

- One Avail Door Mounting Bracket



▲ Figure 4. Door Mounting Bracket

- One Avail Check Strap



▲ Figure 5. Check Strap

- Two Avail Nylon Installation Straps



▲ Figure 6. Installation Straps

- 3 Crash Bar Bracket Mounting Bolts and 3 Washers



▲ Figure 7. Crash Bar Bracket Mounting Bolts and Washers

- 2 Door Mounting Bracket Bolts and 2 Washers



▲ Figure 8. Door Mounting Bracket Bolts and Washers

- 3 Sheet Metal Screws



▲ Figure 9. Sheet Metal Screws

- One Isopropyl Alcohol Wipe



▲ Figure 10. Isopropyl Alcohol Wipe

- One Brand Label



▲ Figure 11. Angel Armor Brand Label

- OEM Hinge Reinforcement Kit

NOTE: Each OEM Hinge Kit comes standard with installation hardware for driver and passenger-side doors. If you are not installing passenger-side armor, the extra parts will not be used.

- 1 Driver's Side Upper Hinge Reinforcement Plate



▲ Figure 12. Upper Hinge Reinforcement Plate

- 1 Driver's Side Lower Hinge Reinforcement Plate



▲ Figure 13. Lower Hinge Reinforcement Plate

- 9 OEM Hinge Plate Rivets



▲ Figure 14. Hinge Plate Rivet

- 1 Tube Bonding Adhesive



▲ Figure 15. Bonding Adhesive

Personal Protective Equipment

- Protective Gloves
- Protective Eyewear
- Steel-Toe Boots

Required Tools

- Plastic Door Pry Tools
- Impact Driver or Drill
- Phillips Screwdriver and Flat-head 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
- T25 Torx Driver and T20 Torx Driver
- 7mm Drill Bit
- Torque Wrench
- Heavy Duty Rivet Tool with 5/32" Nosepiece
- 3M DMA50 Epoxy Applicator with 1:1 Mixing Plunger

Recommended Tools

- Magnetic Parts Tray
- De-burring Tool
- Automotive Door Lift Stand
- Cushioned X-Frame Work Stand



▲ Figure 16. Cushioned X-Frame Work Stand



▲ Figure 17. Automotive Door Lift Stand

INSTALLATION

This section provides instructions for installing Angel Armor Avail Ballistic Door Panels (Level III+) into the Dodge Charger Pursuit (2011 & Newer Models).

Overview

Installation of the Angel Armor Avail Ballistic Door Panel (Level III+) into a Dodge Charger Pursuit is simple and starts with applying the OEM door hinge reinforcements. 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 OEM hinge reinforcement and check strap.
- 2** Remove the weatherstrip, vehicle door panel, speaker and window.
- 3** Remove the inner door panel.
- 4** Insert and secure the Avail ballistic panel.
- 5** 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.

PROCEDURE

Complete the following steps to properly install Angel Armor Avail Ballistic Door Panels (Level III+) for Dodge Charger Pursuit (2011 & Newer Models).

Installing OEM Hinge Reinforcements and Check Strap

For maximum door support, install the OEM Hinge Reinforcements per the manufacturer's instructions. If you have questions on this step, contact the OEM directly.

- 1** Mark the hinge locations on the door by outlining around the edge of hinges with a marker.
 - 2** Disconnect the door wiring harness from the vehicle with a pry tool.
 - 3** Disconnect wires from the door.
 - 4** While supporting the weight of the vehicle door, use a 1/2 inch socket wrench to remove the four hinge bolts on the door side of the hinge and remove the door from the vehicle. (An automotive door lift stand is recommended for door support during removal, installation and adjustment.)
- 
- ▲ Figure 18. Removing the upper door hinge bolt and nut.
- 5** Place the vehicle door on a protected work surface with the inside of the door facing up. Use a door trim removal tool to remove five clips from the front inner plastic door trim, and remove the trim. (A cushioned x-frame work stand is recommended for door support during hinge reinforcement application.)
 - 6** Place the correct upper and lower hinge reinforcement brackets for the corresponding door over hinge bolts. Center the bracket openings over the hinge marks made earlier. Center-punch bracket holes and drill out holes in the door with a 7mm drill bit. Clear away debris, de-burr holes and apply touch-up paint to holes to prevent corrosion.
 - 7** Using the 3M epoxy applicator, apply included adhesive to brackets on areas shown in the OEM hinge reinforcement installation instructions (see Figure 7 in included instructions from the OEM). Mount plates to door within 7 minutes of applying adhesive. Scrape away any excess adhesive. (Curing time is roughly 60 - 90 minutes at 70°F.)

Installing OEM Hinge Reinforcements and Check Strap CONTINUED

- 8** Place rivets into bracket/door holes (five on upper bracket, four on lower bracket). Use the riveting tool to squeeze and secure the rivets in place.
- 9** Once the adhesive has cured, replace the inner door trim.
- 10** Pre-bend the check strap, and use a 1/2" wrench to remove the top bolt on the upper door hinge on the vehicle side. Mount the check strap so the strap is facing outward before replacing door.
- 11** Hang the door back on the vehicle, secure check strap to the door hinge bolt and replace and tighten hinge nuts while applying positive upward pressure on the bottom of the door. This helps prevent door sag and misalignment during door installation.

⚠ 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.

- 12** After the check strap is installed, push the strap in while slowly closing the door. This inward motion creates a memory for the strap, allowing the door to close in the same manner.



▲ Figure 19. Mounted check strap (photo taken from bottom view to better show strap placement).

- 13** Reconnect the wires and wire harness between the door and vehicle.

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 the Window Weatherstrip

- 1 Using a T20 driver, remove the front and back window weatherstrip screws.



▲ Figure 20. Removing the front window weatherstrip screw.



▲ Figure 21. Removing the back window weatherstrip screw.

- 2 Lift up on the outer window weatherstrip to remove it from the door.



▲ Figure 22. Removing the outer window weatherstrip.

Removing the Vehicle Door Panel and Speaker

- 1 Using the door pry tools, remove the trim cover behind the interior door handle.



▲ Figure 23. Remove the interior door handle trim cover.

- 2 Remove the Phillips head screw from behind the interior door handle.



▲ Figure 24. Removing the interior door handle screw.

Removing the Vehicle Door Panel and Speaker CONTINUED

- 3** Using the door pry tools, remove the rubber trim cover in the armrest pocket.



▲ Figure 25. Removing the armrest pocket trim cover.

- 4** Remove the Phillips screw from the armrest pocket.
- 5** Using the door pry tools, remove the window control panel from the door panel.
- 6** Disconnect the wiring harnesses from the window control panel.
- 7** Locate the round plastic fastener near the middle of the inner edge of the door panel. Use a screwdriver to gently push in the small round center piece of the fastener, and then pry out the outer edge to remove the fastener.



▲ Figure 26. Removing the fastener at the inner edge of the door panel.

- 8** Use a Phillips head screwdriver to remove the screw surrounded by a rubber bumper on the outer bottom edge of the door panel.



▲ Figure 27. Removing screw at bottom edge of the door panel.

- 9** 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 the snaps.



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

Removing the Vehicle Door Panel and Speaker CONTINUED

- 10** Once all snaps have been released, hold the vehicle door panel at the base and lift it over the door lock pin.
- 11** 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.

- 12** Disconnect all wiring harness clips. There are four on the driver side and three on the passenger side.
- 13** Disconnect the door handle cable by squeezing the two prongs on the black plastic collar with a pair of needle nose pliers.
- 14** Pull the black plastic collar out of the bracket and swing the door handle cable away from yourself.
- 15** Lift the metal cylinder out of its socket (located at the end of the door handle cable).
- 16** Set the door panel aside.
- 17** Use a T25 driver to remove the four Torx T25 speaker screws.



▲ Figure 30. Removing the speaker screws.

- 18** Pull the speaker out of the door frame, and press the release tab to disconnect the power plug. Set aside.

Removing the Vehicle Window

- 1 Use a screwdriver or needle nose pliers to release the front window clip located behind the speaker.



▲ Figure 31. Releasing the front window clip.

- 2 Reconnect the window control panel to the wiring harness, and raise the window $\frac{3}{4}$ of the way up.
- 3 Disconnect the wiring harnesses from the window control panel.
- 4 Disconnect the vehicle battery to avoid accidental airbag deployment.

- 5 Open the window regulator access panel at the top rear portion of the inner door panel.



▲ Figure 32. Location of the window regulator access panel.

- 6 Use a screwdriver or needle nose pliers to release the rear window clip located inside the window regulator access panel.

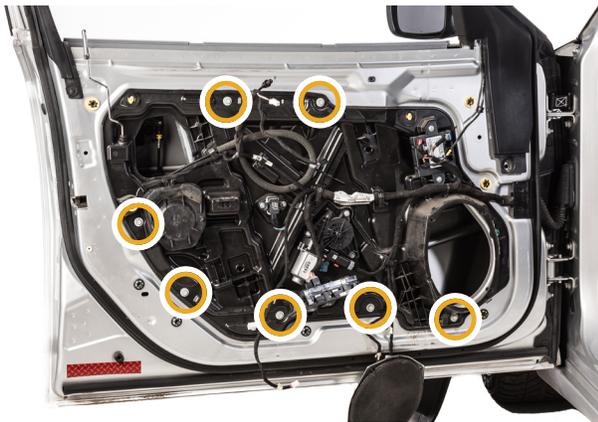


▲ Figure 33. Releasing the back window clip.

- 7 Carefully remove the window glass from the door and set aside.

Removing Inner Door Panel

- 1** Use a 10mm wrench to loosen and remove the door lock post.
- 2** Use a 10mm socket wrench to remove all bolts around the perimeter of the inner door panel.



▲ Figure 34. Location of the bolts around the inner door panel.

- 3** Disconnect inner door panel wiring.
- 4** Disconnect the cable from the external door handle mechanism.



▲ Figure 35. Disconnecting the cable from the door handle mechanism.

- 5** Use a T25 driver to rotate and disengage the clips around the perimeter of the inner door panel.



▲ Figure 36. Location of the clips around the inner door panel.

- 6** Disconnect the clip at the rear of the inner door panel, located on the interior of the door, to remove panel from the door skin.
- 7** Lift the inner door panel up from the bottom and lower the panel so the door skin clears the window regulator track.
- 8** Lift the panel over the lock rod and slide backwards to remove it from the door skin. Set aside.

Inserting and Securing the 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. The straps should create a cradle in the center of the door skin. Direct the male side of clip facing down for ease and adjustment. See Figure 38.



▲ Figure 37. Looping the installation straps around the door.



▲ Figure 38. 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.

- 4 Carefully insert the armor through the window opening and into the cradle created by the installation straps.



▲ Figure 39. Using the cradle created by the installation straps to lower the armor into the door.

Inserting and Securing the Ballistic Door Panel CONTINUED

- 5** Slowly adjust the installation straps to begin to lower the armor into the door. Stop when the armor is about $\frac{3}{4}$ of the way installed.



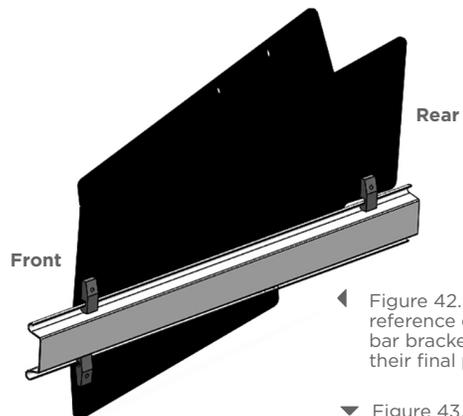
▲ Figure 40. Proper placement of the armor installed $\frac{3}{4}$ of the way into the door.

⚠ NOTE: To keep the armor from shifting inside the door, three crash bar brackets are used to secure the armor to the crash bar. See Figures 42 and 43 for a visual reference of crash bar brackets installed in their final placement. Note how the armor sits flush against the crash bar. Steps 6-14 demonstrate how to install the crash bar brackets.

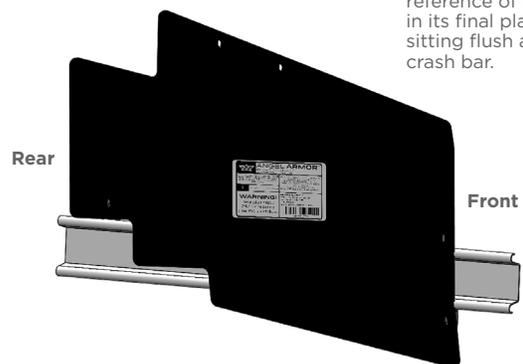
- 6** With the armor lowered $\frac{3}{4}$ of the way into the door, loosely install the first crash bar bracket by inserting one 25mm bolt with a washer through the top slotted hole at the front portion of the armor. Then place a crash bar bracket behind the screw and loosely thread them together. This screw will be tightened later in the installation.



▲ Figure 41. The front, top crash bar bracket loosely installed.



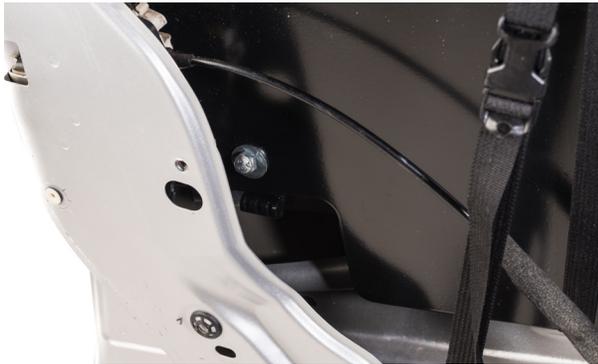
◀ Figure 42. Back-view reference of the crash bar brackets installed in their final placement.



▼ Figure 43. Front-view reference of the armor in its final placement, sitting flush against the crash bar.

Inserting and Securing the Ballistic Door Panel CONTINUED

- 7 Loosely install the second crash bar bracket by inserting one 25mm bolt with a washer through the slotted hole at the rear of the armor panel. Thread it into the crash bar.



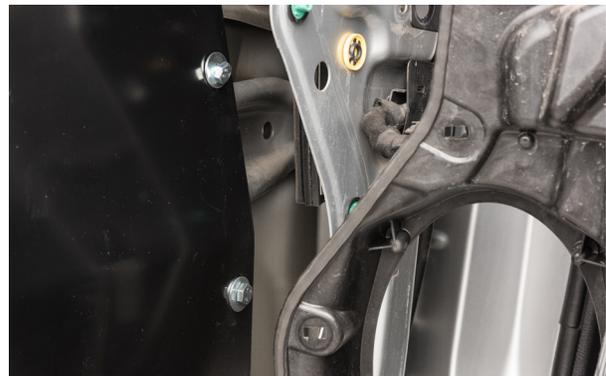
▲ Figure 44. The back crash bar bracket loosely installed.

- 8 With the top front and rear crash bar brackets loosely attached, use the installation straps to lower the armor approximately 3 inches.



▲ Figure 45. Lowering the armor into the door using the installation straps.

- 9 Manipulate the armor so the round part of the top crash bar brackets properly hooks onto the crash bar. Refer again to Figures 42 and 43 for proper positioning.
- 10 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.)
- 11 At the top of the armor panel, loosely install the door mounting bracket to the armor by inserting two 20mm bolts with washers through the two slotted holes.
- 12 Loosely install the third and final crash bar bracket by inserting one 25mm bolt with a washer through the bottom slotted hole at the front of the armor panel. Thread it into the crash bar bracket. Use your fingers to align the round part of the bracket with the crash bar so it hooks to the crash bar lip properly.



▲ Figure 46. The front, bottom crash bar bracket loosely installed.

- 13 To settle the armor into its final position, alternate between aligning the armor with the crash bar (it may need to be pushed slightly forward) and tightening the three crash bar bolts. Hold the crash bar brackets in place with the other hand to prevent them from rotating out of the crash bar lip while tightening.

Inserting and Securing the Ballistic Door Panel

CONTINUED

- 14** Confirm the armor is in its final position by checking the following:
- The armor sits flush to the crash bar.
 - The rear portion of the armor rests on top of the crash bar.
 - There is a 1/4 to 1/2-inch gap between the door handle hardware and the armor.
 - Complete a physical check with your fingers to ensure all crash bar brackets are still in their proper placement.



▲ Figure 47. The armor in its final position inside the door.

- 15** Once the armor is in its final position, use a 1/2" socket to firmly tighten the crash bar brackets.

- ⚠** **The crash bar brackets should be very tight (approximately 35 ft-lbs) to ensure clearance for the window regulator and proper support for the weight of the steel armor.**

- 16** At the top of the armor, use a 1/2" socket to loosely attach the door mounting bracket to the armor, ensuring the bracket presses up against the top of the door frame.

- ⚠** **Wear appropriate protective gear, including eye, hand and foot protection. Protective eyewear is highly recommended when installing the door mounting bracket.**

- 17** Using a 10mm socket and impact driver, insert three sheet metal screws through the three slotted holes at the top half of the door mounting bracket to attach the bracket to the door frame. With the screws in place, the upper mounting bracket bolts can be firmly tightened (Torque to 18 ft-lbs)

- ⚠** **NOTE:** The sheet metal screws will drill three 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.



▲ Figure 48. Fully installed door mounting bracket. Looking up from the bottom of the door.

Replacing the Inner Door Panel

- 1** Connect the cable to the external door handle and ensure the yellow grommet snaps into place.
- 2** Feed the top of the inner door panel so the door skin clears the window regulator track and push the door lock rod through the hole.
- 3** Connect the clip at the rear of the interior door panel.
- 4** Line up the inner door panel with the existing holes in the door skin.
- 5** Use a T25 driver to rotate and engage all clips around the perimeter of the inner door panel.
- 6** Use a 10mm socket wrench to replace all bolts around the perimeter of the inner door panel.
- 7** Replace the door lock post.
- 8** Replace the inner door panel wiring.

Replacing the Vehicle Window

- 1** Replace the window glass into the door window channel.
- 2** Slide window down until it pops into the two white plastic window clips and close the inner door panel access door.

Replacing the Speaker and Vehicle Door Panel

- 1** Connect the speaker power plug.

- 2** Use a T25 driver to replace the four Torx T25 speaker screws.
- 3** Hold the door panel near the door frame and tilt the top toward yourself while supporting the bottom edge with your legs.
- 4** Connect all wiring harness clips. There are four on the driver side and three on the passenger side.
- 5** Fully lower the window.
- 6** Replace the metal cylinder at the end of the interior door handle cable into its socket.
- 7** Pull the black plastic collar away from the bracket and place the metal cable into the bracket.
- 8** Slide the black plastic collar into the bracket until the two plastic prongs snap securely in place.
- 9** Align the door lock post with the hole at the upper corner of the door panel.
- 10** Lower the door panel onto the lip at the top of the metal door frame and press firmly until seated.
- 11** 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.
- 12** Firmly tap on the snaps along the bottom edge and both sides of the door panel.

Replacing the Speaker and Vehicle Door Panel

CONTINUED

- 13** Use a Phillips screwdriver to replace the screw attached to the rubber bumper at the lower, outer edge of the door panel.
- 14** Push in the black plastic fastener near the middle of the inner edge of the door panel.
- 15** Connect the window control panel wiring harness.
- 16** Replace the window control panel.
- 17** Use a Phillips screwdriver to replace the screw at the bottom of the armrest pocket.
- 18** Replace the trim cover at the bottom of the armrest pocket.
- 19** Use a Phillips screwdriver to replace the screw behind the interior door handle.
- 20** Replace the trim cover behind the interior door handle.
- 21** Reconnect the vehicle battery.
- 22** Roll the window all the way down.

Replacing the Window Weatherstrip

- 1** Press down on the front end of the weatherstrip and move backward, pressing the entire length of the weatherstrip into the window frame to ensure proper snap engagement.
- 2** Use a T25 driver to replace the front and back window weatherstrip screws.



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 nuts, gently close the door and inspect closure/alignment.
- E** Repeat as necessary.

- 2** 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 49. Applying the Angel Armor brand label.

REMOVAL OR DECOMMISSION

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

INSTALLATION COMPLETE:

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

