ANGEL ARMOR®

# AVAIL®
# BALLISTIC DOOR PANELS

NIJ LEVEL IIIA

# INSTALLATION GUIDE

As shown on

## RAM® 1500 CREW CAB FOR FRONT DOORS
**(2011 - 2024)**

### ALSO COMPATIBLE WITH:

- **RAM 1500 Quad Cab** (2011 & Newer Models)
- **RAM 2500 Quad Cab** (2011 & Newer Models)
- **RAM 2500 Crew Cab** (2011 & Newer Models)
- **RAM 3500 Quad Cab** (2011 & Newer Models)
- **RAM 3500 Crew Cab** (2011 & Newer Models)

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## INTRODUCTION

Congratulations on your purchase of the Angel Armor® Avail® Ballistic Door Panel (Level IIIA) for RAM Trucks (2011-2024) for Front Doors. It's our honor to provide advanced protection to those who put their lives on the line in the name of law and order.

In just a matter of minutes, your vehicle will be upfitted with the finest ballistic technology available. With innovative ballistic materials, advanced designs and the fastest installation in the industry, Angel Armor Avail Ballistic Door Panels elevate protective technology to a higher level.

### Product Description

Angel Armor Avail Ballistic Door Panels (Level IIIA) are constructed of a proprietary technology that is not only remarkably strong, but also thin, lightweight and weatherproof. These properties, plus semi-rigid material characteristics, enable unprecedented ease of installation while providing protection independently tested in accordance with NIJ Standard 0108.01 protocol. Angel Armor Avail Ballistic Door Panels (Level IIIA) for RAM Trucks exceed NIJ Standard 0108.01 protocol for multi-round protection and offer a five-year express limited warranty. Within this period, the panels may be removed and transferred to another vehicle of the same make and model without violating the warranty.

The Ballistic Door Panel installation shown in this Installation Guide was performed on the driver-side front door of the 2011 RAM 1500 Crew Cab. The installation process is the same for 2011-2024 models of the RAM 1500 Quad Cab, RAM 2500 Crew Cab, RAM 2500 Quad Cab, RAM 3500 Crew Cab and RAM 3500 Quad Cab.

Figure 1. Angel Armor Avail Ballistic Door Panel (Level IIIA) for RAM Truck Front Doors

### Installation Overview

Angel Armor Avail Ballistic Door Panels (Level IIIA) for RAM Trucks require no additional brackets or fasteners and eliminate the need to remove the interior door panel or window glass. The Ballistic Door Panel is inserted into the door, adjacent to the window glass. One Phillips Head screwdriver is the only tool required.

Installation into RAM Trucks takes as little as 90 seconds for experienced installers. The average user installation takes only 5 to 10 minutes.

## 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 INSTALLATION TO AVOID THE POSSIBILITY OF 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 and foot protection.
- Avoid excessive force when inserting the Ballistic Door Panel into the car door. Excessive force may damage the panel or internal door components.
- When the weatherstrip is disassembled, 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 Ballistic Door Panel parts or components.
- Use caution when removing parts that may have sharp edges, such as the outer window weatherstrip.

## Legal Statements

See supplied Warranty and Terms and Conditions for important legal information. 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.

## TOOLS & PARTS LIST

This section lists the tools recommended for installation and the parts included in the installation kit.

### Recommended Tools

- Phillips-Head Screwdriver

Figure 2. Phillips-Head Screwdriver

- Plastic Door Pry Tool

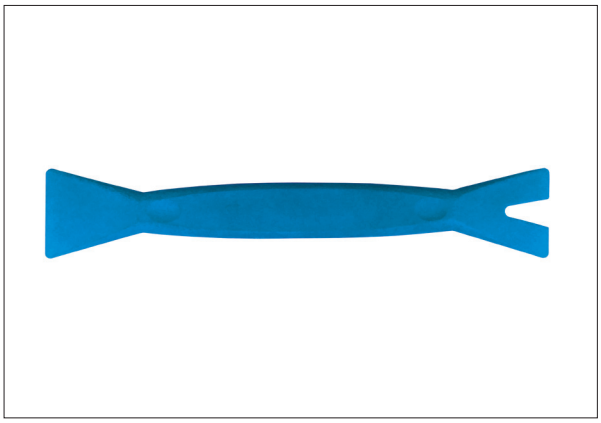


Figure 3. Plastic Door Pry Tool

### Installation Kit Contents

- Angel Armor Avail Ballistic Door Panel (Level IIIA) for RAM Truck (2011-2024) Front Doors

Figure 4. Angel Armor Avail Ballistic Door Panel (Level IIIA) for RAM Truck Front Doors

- Angel Armor Brand Label

Figure 5. Angel Armor Brand Label

- Isopropyl Alcohol Wipe

Figure 6. Isopropyl Alcohol Wipe

## INSTALLATION

Complete the following steps to properly install Angel Armor Avail Ballistic Door Panels (Level IIIA) for RAM Truck (2011-2024) Front Doors.

### Preparing for Installation

1 Lower the window glass completely.

2 Turn off the vehicle ignition switch, and remove the key.

3 ⚠ **Disconnect the vehicle battery to avoid accidental airbag deployment.**

### Removing the Outer Window Window Weatherstrip

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

1 Remove the outer window weatherstrip Phillips-Head screw at the back end of the window frame.

▲ Figure 7. Removing outer window weatherstrip Phillips-Head screw

2 Carefully pull up on the rear portion of the outer window weatherstrip. Slightly lift the back of the weatherstrip up, and simultaneously slide it toward the back of the door to remove it completely.

▲ Figure 8. Sliding back the outer window weatherstrip

### Inserting the Ballistic Door Panel

1 Bend the bottom of the Ballistic Door Panel away from you, pressing with your knee or hand. This creates a slight curve in the panel that matches the shape of the door and eases installation.

▲ Figure 9. Bending the Ballistic Door Panel to create a slight curve

⚠ **NOTE:** Do not bend the Ballistic Door Panel tighter than a 6” radius (12” diameter).

## Inserting the Ballistic Door Panel CONTINUED

**2** Hold the Ballistic Door Panel so that its anti-abrasion panel faces the interior of the vehicle.

**3** Leading with the bottom edge of the Ballistic Door Panel, begin to insert the panel into the door adjacent to the outer surface of the window glass. Be sure that the panel is located in between the window glass and the outer door skin.

Figure 10. Inserting panel between window glass and outer door skin

**NOTE:** Hold the Ballistic Door Panel against the window glass as you insert to ensure you clear the framework inside the door. This can be achieved by lightly leaning back/pulling the panel out toward the exterior of the door. Plastic door pry tools can also be used to help push the panel toward the door skin.

**4** Following the vertical edge of window frame, slide the Ballistic Door Panel straight down into the door.

Figure 11. Sliding panel down into the door

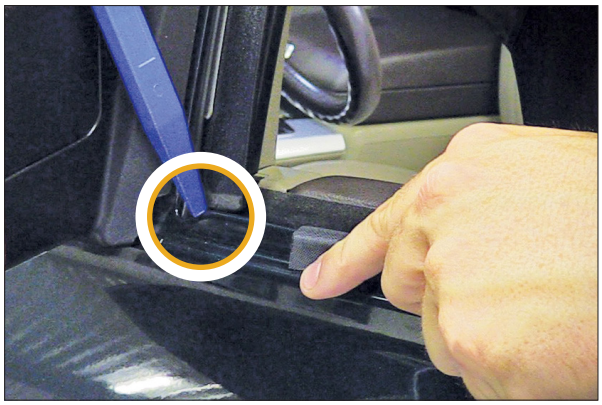
**NOTE:** Work the Ballistic Door Panel down firmly to clear any obstructions, but never use excessive force. Excessive force may damage internal door components or puncture the Ballistic Door Panel's weatherproof cover.

**5** With the Ballistic Door Panel as far down as possible, slide it toward the front of the door. It may be useful to shimmy the panel side to side while pushing forward to move it into position. A plastic door pry tool may be helpful to push the panel toward the outside of the door, allowing it to clear the window track while sliding it forward.

Figure 12. Sliding panel toward front of door frame

## Inserting the Ballistic Door Panel CONTINUED

**6** Verify that the Ballistic Door Panel is properly positioned by confirming that the front of the folded nylon is located on the door seam where it begins to curve downward. See Figure 14 for proper positioning.



▲ Figure 13. Nylon fold is properly positioned on downward curve of the door seam

**7** Push the Ballistic Door Panel down into its final location until the nylon fold at the top of the panel folds over the horizontal metal edge of the window frame. This is the same edge that the outer window weatherstrip sits on when installed. Plastic door pry tools can be used to help seat the Ballistic Panel into its final position.

▲ Figure 14. Proper location of nylon fold

## Replacing the Outer Window Weatherstrip and Completing Installation

**1** Feed the front end of the weatherstrip under the gap near the side-view mirror, and push forward.

**2** Press the front edge of the outer window weatherstrip on the metal edge of the window frame, and begin to seat the remaining weatherstrip along the window frame.

▲ Figure 15. Seating weatherstrip along window frame

**3** Verify that no nylon is exposed below or around the outer window weatherstrip.

**4** Working from the front, press down to seat the entire length of the outer window weatherstrip onto the metal edge of the window frame.

▲ Figure 16. Properly seated window weatherstrip

**5** Replace the outer window weatherstrip Phillips-Head screw at the back end of the window frame.

**6** Re-connect the vehicle battery.

**7** Attach the Angel Armor brand label to the interior door panel by completing the following procedure:

**A** Clean the attachment location on the door with the supplied isopropyl alcohol wipe.

▲ Figure 17. Cleaning location with 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 18. Attaching Angel Armor brand label

**INSTALLATION COMPLETE:**
Your vehicle is now equipped with advanced ballistic protection from Angel Armor.

## REMOVAL OR DECOMMISSION

This section describes the process for removing the Ballistic Door Panel for decommission or transfer to another vehicle.

**1** Lower the window glass completely.

**2** ⚠ **Disconnect the vehicle battery to avoid accidental airbag deployment.**

**3** Follow the procedure described in *Removing the Outer Window Weatherstrip* on page 6.

**4** Grip the nylon fold at the top edge of the Ballistic Door Panel, and pull the panel toward the back of the vehicle then straight up to remove it from the door completely.

⚠ **NOTE:** Avoid tearing the Ballistic Door Panel's weatherproof cover on the 'teeth' inside of door by pushing the panel toward the interior of the vehicle before lifting it out of the door.

**5** Follow the procedure described in *Replacing the Outer Window Weatherstrip* on pages 8-9.

**6** If removing the Ballistic Door Panel for transfer to another vehicle, inspect the panel after removal. Contact Angel Armor with any concerns about wear or damage.