



AVAIL™

BALLISTIC DOOR PANELS

NIJ LEVEL IIIA



INSTALLATION GUIDE

As shown on

Chevrolet® Express Van for Front Doors

(1996 & NEWER MODELS)



ALSO COMPATIBLE WITH FRONT DOORS FOR:

- **GMC® Savana Van**
(1996 & Newer Models)



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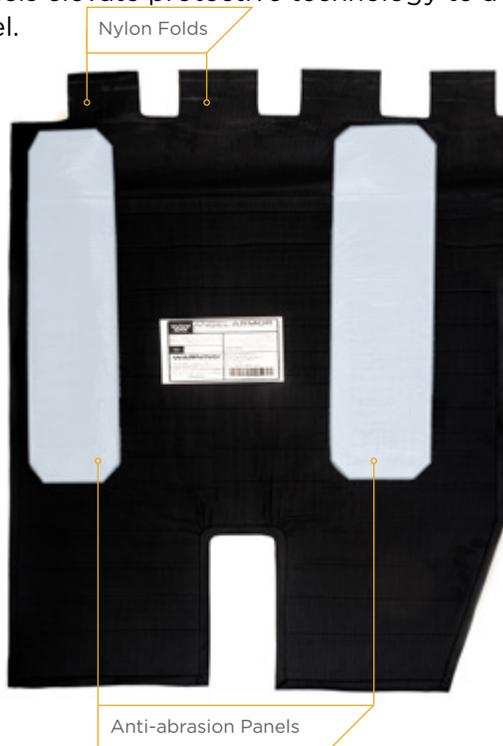
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CHEVROLET®, CHEVY®, GMC®, AND GM® ARE REGISTERED TRADEMARKS OF GENERAL MOTORS.

INTRODUCTION

Congratulations on your purchase of the Angel Armor Avail Ballistic Door Panel (Level IIIA) for the Chevrolet Express Van 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 outfitted 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.



▲ Figure 1. Angel Armor Avail Ballistic Door Panel (Level IIIA) for the Chevrolet Express Van

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 the Chevrolet Express Van exceed NIJ Standard 0108.01 protocol for multi-round protection and offer a 5-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 front, driver-side door of the Chevrolet Express Van. The installation process is the same for passenger-side front doors of the Chevrolet Express Van and for driver and passenger-side front doors of the GMC® Savana Van.

Installation Overview

Angel Armor Avail Ballistic Door Panels (Level IIIA) for the Chevrolet Express Van 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. A door pry tool is the only tool required.

Installation into the Chevrolet Express Van takes as little as 5 minutes for experienced installers. The average user installation takes only 10 to 15 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 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 door. Excessive force may damage the ballistic door panel or internal door components.
-  When weather strip 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

This section lists tools to be supplied by the installer.

- Door pry tool



▲ Figure 2. Door pry tool

Installation Kit Contents

This section lists the ballistic panel type and all parts included with it.

- Angel Armor Avail Ballistic Door Panel (Level IIIA) for Chevrolet Express Van (1996 & Newer Models)



▲ Figure 3. Angel Armor Avail Ballistic Door Panel (Level IIIA) for the Chevrolet Express Van

- Angel Armor brand label



▲ Figure 4. Angel Armor brand label

- Isopropyl alcohol wipe



▲ Figure 5. Isopropyl alcohol wipe

INSTALLATION

This section provides instructions for installing Angel Armor Avail Ballistic Door Panels (Level IIIA) into the Chevrolet Express Van.

Overview

Installation of Angel Armor Avail Ballistic Door Panels (Level IIIA) into the Chevrolet Express Van is accomplished in three easy steps. See *Procedure* on page 7 for detailed instructions.

General Installation Procedure

- 1 Remove outer window weatherstrip.
- 2 Insert and secure ballistic panel.
- 3 Replace outer window weatherstrip.

Important Notes

- The directions, photographs and illustrations in this guide depict an installation performed on the driver's side front door. The same installation procedure applies to the passenger front door. NOTE: The anti-abrasion panel faces the interior of the vehicle for both the driver-side and passenger-side ballistic panels.
- 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 during installation.
- Avail Ballistic Door Panels are semi-rigid, which allows them to be bent slightly for easy installation. To help prevent damage to the ballistic panels, do not bend them tighter than a 6" radius (12" diameter).
- 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 IIIA) for Chevrolet Express Van.

Preparing for Installation

- 1 Lower the window glass until it's approximately 16 inches up from the window frame.
- 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 Weatherstrip

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

- 1 Carefully pull up on the rear end of the outer window weatherstrip to remove it from the window frame. Lift up and inward slightly to release the clips.
- 2 After all clips have been removed, pull the weatherstripping backwards from behind the rear view mirror.



▲ Figure 6. Removing outer window weatherstrip

Inserting the Ballistic Door Panel

- 1 Bend the bottom of the ballistic panel by pressing with your knee or hand. This creates a slight curve in the ballistic panel that matches the shape of the bottom of the Chevrolet Express Van door and eases installation.

⚠️ Do not bend the ballistic door panel tighter than a 6" radius (12" diameter).



▲ Figure 7. Bending ballistic panel to match curve of the door

- 2 Pop the bottom of the door panel with a pry tool, and pull the plastic seal to access the two bottom front and rear holes.



▲ Figure 8. Prying open door panel

Inserting the Ballistic Door Panel

CONTINUED

- 3 Hold the ballistic door panel so that its anti-abrasion panel faces the interior of the vehicle.
- 4 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.

NOTE: Hold the ballistic door panel against the window glass as you insert to avoid obstructions inside the door. This can be achieved by lightly leaning back/pulling the panel out toward the exterior of the door.



▲ Figure 9. Inserting ballistic panel into door with anti-abrasion panels facing vehicle interior

- 5 Slide the ballistic panel down into the door, following the edge of the window frame. As the ballistic panel is being inserted, on newer model vans, there is a wire in the bottom of the door that is visible from the bottom, rear hole on the inside of the door. The wire will need to be manipulated so that the armor does not catch on it during installation.



▲ Figure 10. Reaching in through holes to adjust internal wire

NOTES:

- The ballistic door panel should go most of the way down, with the top of the anti-abrasion panels just above bottom of the window opening.
- If the panel is not going down, it is likely caught on the crash bar. Remove the ballistic panel, re-bend the bottom of the panel and re-insert the panel.

Inserting the Ballistic Door Panel

CONTINUED

6 With the ballistic door panel past the crash bar and the wire, it will most likely be resting on the bottom part of the door skin. However, there is a second shelf that allows the ballistic panel to sit deeper. Reach into the two holes on the door skin, and push the ballistic panel to the outside of the door, allowing it to drop completely into the door.

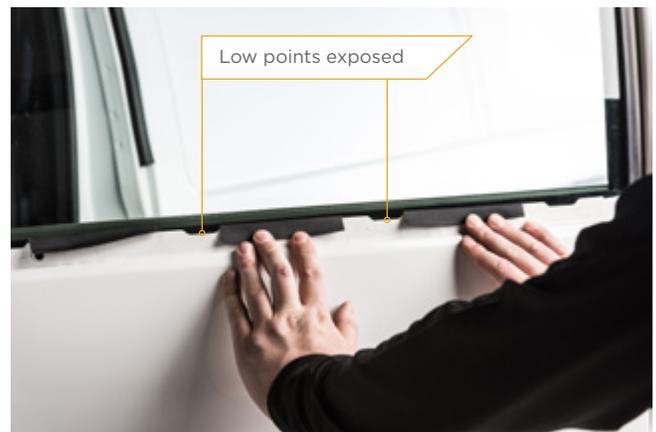
NOTE: Work the ballistic panel forward firmly to clear any obstructions, but never use excessive force. Excessive force may damage internal door components or puncture the ballistic door panel's weatherproof cover. It may be useful to shimmy the ballistic panel side to side while pushing forward to move it into position.

7 Push the ballistic panel down into its final location until the nylon folds at the top of the ballistic panel fold over the horizontal metal edge of the window frame. This is the same edge that the outer window weatherstrip sits on when installed. If seated correctly, the folds in the armor should be at approximately the height of the of the window opening.

NOTE: If the armor is not aligning properly move the armor front or rear to align the folds with the high points in the sheet metal. The low points are where the clips on the weatherstripping engage.

8 Verify that the ballistic panel is properly positioned by confirming the following:

- Low points along the window frame are exposed between the nylon cutouts. See Figure 11.
- The ballistic panel is all the way down, and the nylon fold sits flush where the weatherstrip is installed.



▲ Figure 11. Proper alignment of nylon fold with window frame.

NOTE: If excessive nylon is exposed above the door and the crease does not align with the top edge of the window frame, repeat steps 1 through 8 of this section. Avoid tearing the ballistic panel's weatherproof cover on the 'teeth' inside of door by pushing the ballistic panel toward the interior of the vehicle before lifting it out of the door.

Replacing the Outer Window Weatherstrip and Completing Installation

- 1** Press the front edge of the outer window weatherstrip on the metal edge of the window frame, and carefully slide the weatherstrip under the mirror to engage the existing trim.



▲ Figure 12. Reinstalling outer window weatherstrip

- 2** Verify that no nylon is exposed below or around the outer window weatherstrip.
- 3** Working from front to back, press down to seat the entire length of the outer window weatherstrip onto the metal edge of the window frame.
- 4** Reconnect the bottom of the door panel to the door skin.
- 5** Re-connect the vehicle battery.
- 6** Verify that all windows, door locks and mirrors function properly with trim and window components properly re-installed.

- 7** Attach the Angel Armor brand label to 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 13. Applying 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 until it's approximately 16 inches up from the window frame.
- 2**  **Disconnect the vehicle battery to avoid accidental airbag deployment.**
- 3** Follow the procedure described in *Removing the Outer Window Weatherstrip* on page 7.
- 4** Grip the nylon folds at the top edge of the ballistic door panel.
- 5** Slide the ballistic panel up to remove it from the door. Be sure to align the ballistic panel with the vertical window frame for easier removal.

 Avoid tearing the ballistic panel's weatherproof cover on the 'teeth' inside of door by pushing the ballistic panel toward the interior of the vehicle before lifting it out of the door.

- 6** Follow the procedure described in *Replacing the Outer Window Weatherstrip* on page 10.
- 7** If removing the panel for transfer to another vehicle, inspect panel after removal. Contact Angel Armor with any concerns about wear or damage.