



AVAIL[®]

**BALLISTIC
DOOR PANELS**

NIJ LEVEL IIIA



INSTALLATION GUIDE

As shown on

**JEEP[®] WAGONEER
FRONT DOORS**
(2022 & newer models)

Jeep



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TABLE OF CONTENTS



INTRODUCTION	3
Product Description	3
Installation Overview	3
Warnings & Cautions	4
Legal Statements	4
 TOOLS & PARTS LIST	 5
Recommended Tools	5
Installation Kit Contents	5
 INSTALLATION	 6
Overview	6
– General	6
– Important Notes	6
Procedure	7
– Preparing the Door Interior	7
– Removing Sideview Mirror & Interior Trim	8
– Removing Exterior Window Trim	9
– Window Regulator Bolt Replacement	9
– Removing Speaker	9
– Installing the Ballistic Door Panel	10
– Reassembling Door	11
– Completing Installation	11
 REMOVAL OR DECOMMISSION	 12

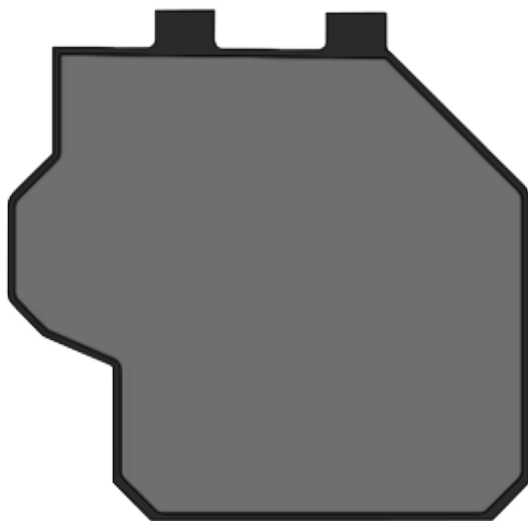
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INTRODUCTION

Congratulations on your purchase of the Angel Armor® Avail® Ballistic Door Panel (Level IIIA) for the Jeep® Wagoneer! It's our honor to provide advanced protection to those who put their life 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.



▲ Figure 1. Angel Armor Avail Ballistic Door Panel (Level IIIA) for the Jeep Wagoneer

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 Jeep Wagoneer 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.

Installation Overview

Angel Armor Avail Ballistic Door Panels (Level IIIA) for the Jeep Wagoneer require no additional brackets or fasteners. The Ballistic Door Panel is inserted into the door, adjacent to the window glass.

Installation into the Jeep Wagoneer takes as little as 15 minutes for experienced installers. The average user installation takes only 25 to 30 minutes.



Watch an installation in action at angelarmor.com

Warnings and Cautions

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

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.

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 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.



Avoid tearing the weatherproof cover on the “teeth” inside of the door when removing the ballistic panel by pushing the panel toward the interior of the door before lifting it out of the door



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.

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.

- Panel pry tools
- Ratchet wrench
- Socket extension
- 6mm socket
- 10mm socket
- Pliers
- Gloves



▲ Figure 2. Panel/trim removal tool



▲ Figure 3. Ratchet wrench



▲ Figure 4. Socket extension



▲ Figure 5. 6mm socket



▲ Figure 6. 10mm socket

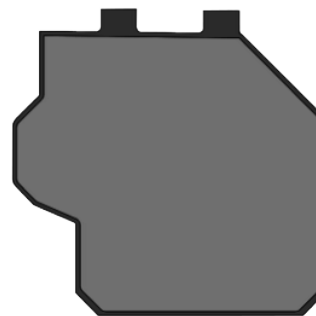


▲ Figure 7. Long nose pliers

Installation Kit Contents

This section lists the Ballistic Door Panel type and all parts included with it.

- Angel Armor Avail Ballistic Door Panel (Level IIIA) for Jeep Wagoneer (2022 & newer models)



▲ Figure 8. Angel Armor Avail Ballistic Door Panel (Level IIIA) for the Jeep Wagoneer

- 2 flange bolts with washers



▲ Figure 9. Two flange bolts and washers

- 2 adhesive strips



▲ Figure 10. Adhesive strips

- Angel Armor brand label



▲ Figure 11. Angel Armor brand label

- Isopropyl alcohol wipe



▲ Figure 12. Isopropyl alcohol wipe

INSTALLATION

This section provides instructions for installing Angel Armor Avail Ballistic Door Panels (Level IIIA) into the Jeep Wagoneer Vehicle (2022 & newer models).

Overview

Installation of Angel Armor Avail Ballistic Door Panels (Level IIIA) into the Jeep Wagoneer is accomplished quickly and easily. See procedure on page 7 for detailed instructions.

General Installation Procedure

- 1** Remove required vehicle trim.
- 2** Insert and secure Angel Armor Ballistic Door Panel.
- 3** Re-assemble 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 anti-abrasion panel faces the interior of the vehicle for both the driver-side and passenger-side Ballistic Door Panels.
- Note the location of screws 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.
- Angel Armor Avail Ballistic Door Panels are semi-rigid, which allows them to be bent slightly for easy installation. To help prevent damage to the Ballistic Door 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.
- Bypass obstructions inside the door, such as crash bars or window attachment brackets, by angling the panel during insertion or by removing and re-inserting the ballistic panel, as described in Inserting the Ballistic Door Panel, on page 10.

PROCEDURE

Complete the following steps to properly install Angel Armor Avail Ballistic Door Panels (Level IIIA) for Jeep Wagoneer.

Preparing the Door Interior

- 1** Turn on the vehicle in accessory mode (acc) and fully lower the window.
- 2** Remove the interior handle cover from the interior door trim. Work the trim panel from the front edge to the back.



▲ Figure 13. Door handle area

- 3** With the 10mm socket, remove the bolt shown in the following image.



▲ Figure 14. Door handle bolt

- 4** Remove the door armrest pocket tray from the door.



▲ Figure 15. Armrest pocket tray

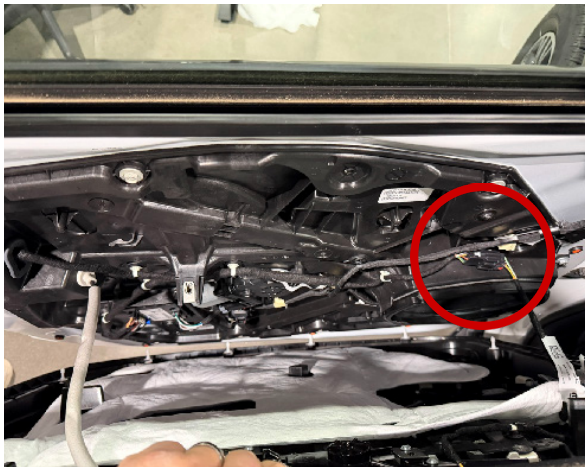
- 5** With the 10mm socket, remove the bolt.



▲ Figure 16. Armrest pocket bolt

- 6** Pulling from the lower section, remove the panel from the door.

- 7 Disconnect the door handle cable and wiring harness.



▲ Figure 17. Disconnecting the wiring harness

Removing Sideview Mirror & Interior Trim

- 1 Pull the plastic rivets from the panel and pull the front section away from the door.

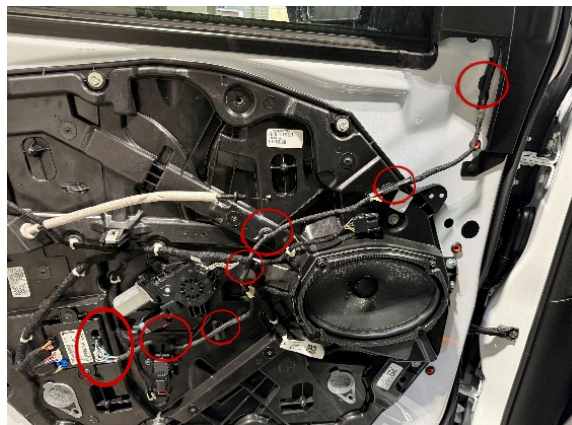


▲ Figure 18. Pulling front section away from the door

- 2 Disconnect the wiring harnesses and clips from the door panel. Use the panel pry tool to pull the five clips from the

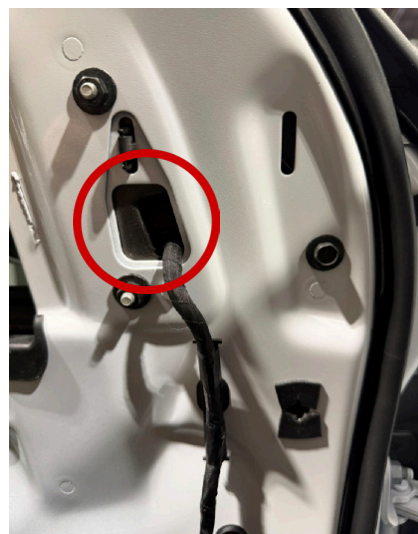
door.

- 3 Remove the wire harnesses at the control box next to the window motor.



▲ Figure 19. Location of wire harness clips

- 4 Remove one bolt and two nuts with the 10mm socket. The mirror will be held in place by a metal clip.
- 5 Remove the mirror from the door and route wiring through the hole, shown below.



▲ Figure 20. Wiring routed through the hole

Removing Exterior Window Trim

- 1 Starting from the back pillar edge, work towards the front. The pillar side of the trim should be pulled outwards.

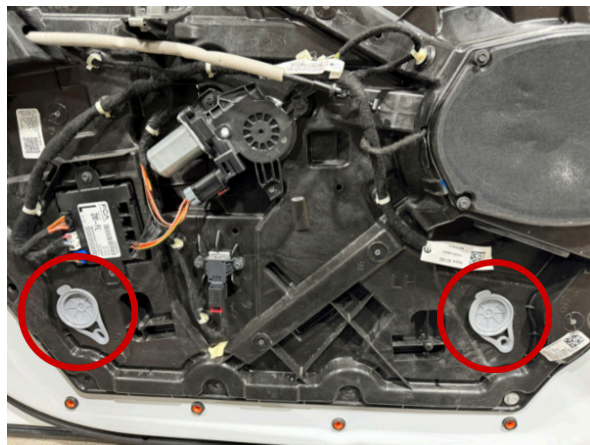


▲ Figure 21. Removing exterior trim from window

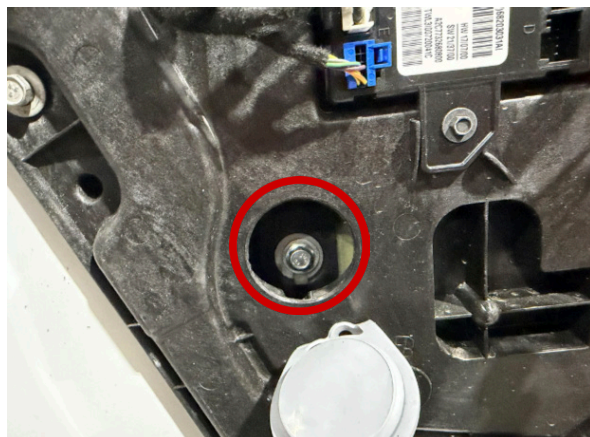
- 2 With the pillar section free, work the window section by pulling up. Set trim piece aside.
- 3 Clean up any residue from the OEM double-sided tape.

Window Regulator Bolt Replacement

- 1 Connect the window controls to the control wire harness.
- 2 Manipulate the window until the window bolts are easily accessible through the covered holes at the bottom of the plastic trim.



▲ Figure 22. Window regulator location



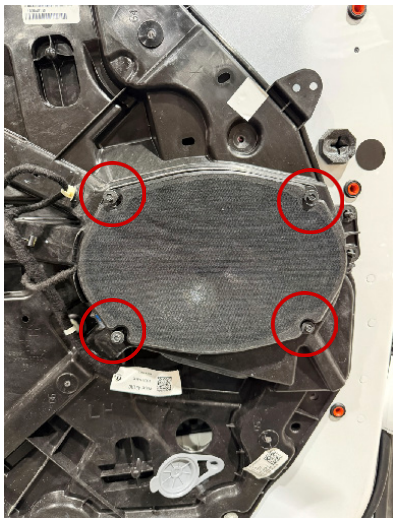
▲ Figure 23. Window regulator bolt location

- 3 Replace one bolt with a bolt and washer provided in the install kit.
- 4 Torque the bolt to OEM specifications.
- 5 Repeat steps 3-4 for the second bolt and washer.

Removing Speaker

- 1 Remove the four screws fastening the speaker with a 6mm socket.

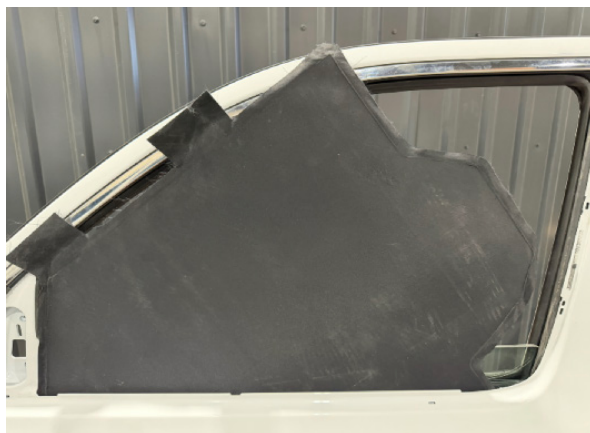
- 2** Remove the speaker and disconnect the wiring harness. Set aside so the part will not be damaged during the install.



▲ Figure 24. Speaker and wiring harness

Installing the Ballistic Door Panel

- 1** Position the window halfway up to gain access to the lower crash bar.
- 2** Slide the armor into the door cavity at an angle between the exterior sheet metal and window.



▲ Figure 25. Inserting the ballistic panel into the door

NOTE: Armor may catch on the lower crash bar. In this event, use your hands to assist the door panel past the lower crash bar.

- 3** Once the armor is inside the vehicle door, slide the armor to the rear of the door.
- 4** Ensure that the armor is properly in place. Armor is considered in place if:

- A Rear of the armor is behind the rear window track.
- B Armor is sitting behind the front window track.



▲ Figure 26. Armor location behind front window track

- C Armor is sitting under the top oval cutouts in the door cavity.



▲ Figure 27. Armor location under top oval cutouts in door cavity

NOTES:

When working the ballistic panel rearward, never use excessive force, which may damage internal door components or puncture the ballistic door panel's weatherproof covering. It may be useful to shimmy the ballistic panel side to side while pushing forward to move it into position.

Verify that the ballistic panel is properly positioned by following steps 4A-C in panel installation section.

If the ballistic door panel is not properly positioned, repeat the steps in this section.

Reassembling Door

- 1 Reinstall the exterior window trim in reverse order of the removal process, starting from the front edge and working towards the rear.

IMPORTANT: Be sure to install the new provided adhesive pads to areas between clips.

- 2 Reinstall the side view mirror in reverse order of the removal process.
- 3 Reinstall the interior mirror trim in reverse order of the removal process, closing all window bolt access holes.
- 4 Install the speaker as removed and connect the wire harness.
- 5 Connect the door hand cable and wire harness to the interior trim.
- 6 Install the interior trim and reinstall the two bolts with a 10mm socket. Replace the bolt covers.

Completing Installation

- 1 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 isopropyl alcohol.
 - B Allow the door surface to dry completely.
 - C Remove backing from the brand label.
 - D Apply the brand label to the door, pressing for at least 30 seconds to ensure proper adhesion.




▲ Figure 28. 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** Roll the door window down completely.
- 2**  **Disconnect the vehicle battery to avoid accidental airbag deployment.**
- 3** Follow the steps in reverse order described in:


Preparing the door interior (pg. 7)

Removing sideview mirror & interior trim (pg. 8)

Removing exterior window trim (pg. 9-10)

Removing speaker (pg. 10-11)

- 4** Grip the nylon folds at the top edge of the Ballistic Door Panel.
- 5** Slide the Ballistic Door Panel toward the front of the vehicle, and then up to remove it from the door. Be sure to align the Ballistic Door Panel with the vertical window opening for easier removal.

 Avoid tearing the Ballistic Door Panel's weatherproof cover by pushing the panel toward the interior of the vehicle before lifting it out of the door.
- 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.