ANGEL ARMOR®

AVAIL®
BALLISTIC DOOR PANELS
NIJ LEVEL IIIA

INSTALLATION GUIDE

As shown on

FORD® POLICE INTERCEPTOR UTILITY FOR REAR DOORS
(2011 - 2019)

COMPATIBLE WITH:

- **Ford® Explorer Rear Door** (2011 - 2019)

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INTRODUCTION

Congratulations on your purchase of the Angel Armor® Avail® Ballistic Door Panel (Level IIIA) for Ford Police Interceptor Utility (2011 - 2019) Rear 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 Ford Police Interceptor Utility 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 rear door of the 2016 Ford Police Interceptor Utility. The installation process is the same for 2011-2019 models of the Ford Explorer.

Figure 1. Angel Armor Avail Ballistic Door Panel (Level IIIA) for Ford Police Interceptor Utility

Installation Overview

Angel Armor Avail Ballistic Door Panels (Level IIIA) for the Ford Police Interceptor Utility 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 Torx screwdriver is the only tool required.

Installation into Ford Police Interceptor Utility vehicles 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

- Torx T-20 Screwdriver

Figure 2. Torx T-20 Screwdriver

Installation Kit Contents

- Angel Armor Avail Ballistic Door Panel (Level IIIA) for Ford Interceptor Utility (2011 - 2019) Rear Doors

Figure 3. Angel Armor Avail Ballistic Door Panel (Level IIIA) for Ford Police Interceptor Utility Rear Doors

- Angel Armor Brand Label

Figure 4. Angel Armor Brand Label

- Isopropyl Alcohol Wipe

Figure 5. Isopropyl Alcohol Wipe

PROCEDURE

Complete the following steps to properly install Angel Armor Avail Ballistic Door Panels (Level IIIA) for Ford Police Interceptor Utility Rear 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 Torx screw at the front, inside end of the window frame.

▲ Figure 6. Removing the front Torx screw

2 Carefully pull up on the front portion of the outer window weatherstrip. Gently rotate out and pull up on the trim to remove it from the window frame.

▲ Figure 7. Removing the 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 bottom of the Interceptor door and eases installation.

▲ Figure 8. 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 Bend the bottom-right tab of the Ballistic Door Panel toward the opposite corner of the panel. This creates an additional curve in the panel that helps avoid obstacles inside the door and ease installation.

Figure 9. Bending the bottom-right tab of Ballistic Door Panel to create a slight curve

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

Figure 10. Anti-abrasion panel facing interior of 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. Push the panel all the way forward toward the front window frame as you begin to insert the panel into the door. This prevents the Ballistic Door Panel from snagging on the rear window frame inside the door and helps to prevent excess wear on the panel.

Figure 11. Pushing panel forward toward front window frame

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.

5 Slide the Ballistic Door Panel down into the door.

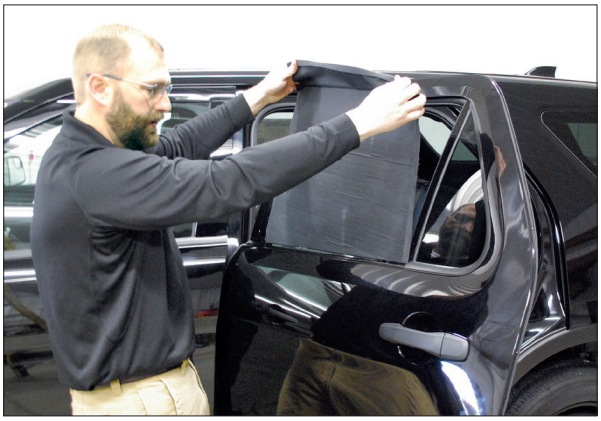

Figure 12. Sliding panel down into the door

Inserting the Ballistic Door Panel CONTINUED

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. It may be useful to shimmy the panel side to side while pushing forward to move it into position.

6 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 panel in its final position.

7 Verify that the Ballistic Door Panel is properly positioned by confirming that the nylon fold sits flush where the weatherstrip is installed.

Figure 13. Proper location of nylon fold

Replacing the Outer Window Weatherstrip and Completing Installation

1 Starting at the rear of the door, line the back of the weatherstrip up with its corresponding attachment point.

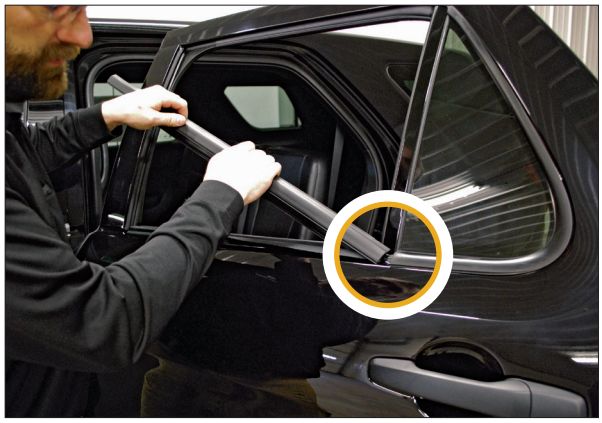

Figure 14. Replacing the weatherstrip

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

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

4 Working from the back, press down to seat the entire length of the outer window weatherstrip onto the metal edge of the window frame to fully secure it.

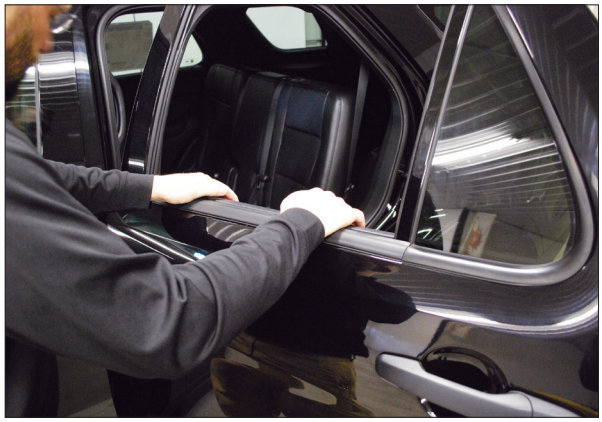

Figure 15. Securing the weatherstrip

Replacing the Outer Window Weatherstrip and Completing Installation CONTINUED

5 Replace the outer window weatherstrip Torx screw at the front 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 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 16. 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 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 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 panel after removal. Contact Angel Armor with any concerns about wear or damage.