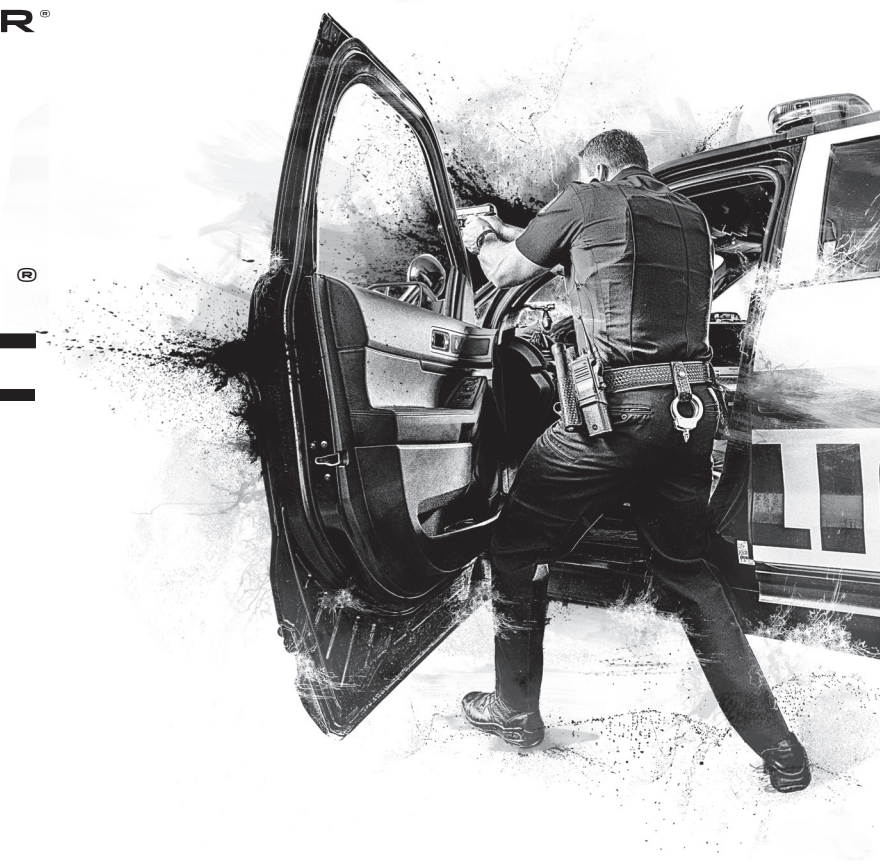
ANGEL ARMOR®

AVAIL®

BALLISTIC DOOR PANELS

NIJ LEVEL IIIA



INSTALLATION GUIDE

As shown on

FORD® MUSTANG MACH-E FRONT DOORS
(2021 & newer models)

Ford

MADE IN USA

angelarmor.com
970 235 2961
sales@angelarmor.com

013125_A

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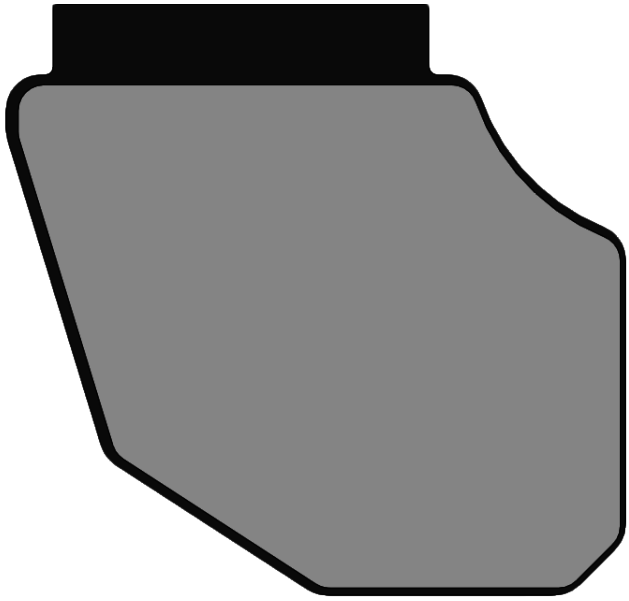
INTRODUCTION

Congratulations on your purchase of the Angel Armor® Avail® Ballistic Door Panel (Level IIIA) for the Ford® Mustang Mach-E! 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 Ford Mustang Mach-E

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 Ford Mustang Mach-E 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 Ford Mustang Mach-E require no additional brackets or fasteners. The Ballistic Door Panel is inserted into the door, adjacent to the window glass.

Installation into Ford Mustang Mach-E 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.

- Torx T20 screwdriver
- Torx T27 screwdriver
- 7 mm socket
- Trim tool
- Long nose pliers

Figure 1. Torx T20 screwdriver

Figure 2. Torx T27 screwdriver

Figure 3. 7 mm socket

Figure 4. Panel/trim removal tool

Figure 5. Long nose pliers

Installation Kit Contents

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

- Retention adhesive pads
- Zip ties
- Angel Armor Avail Ballistic Door Panel (Level IIIA) for Ford Mustang Mach-E (2021 & newer models)

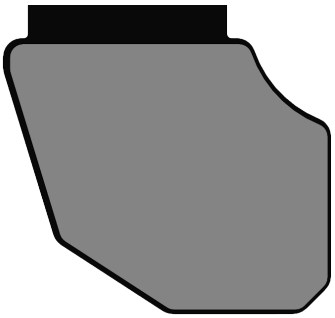


Figure 4. Angel Armor Avail Ballistic Door Panel (Level IIIA) for the Ford Mustang Mach-E

- Angel Armor brand label

Figure 5. Angel Armor brand label

- Isopropyl alcohol wipe

Figure 6. Isopropyl alcohol wipe

INSTALLATION

This section provides instructions for installing Angel Armor Avail Ballistic Door Panels (Level IIIA) into the Ford Mustang Mach E Vehicle (2021 & newer models).

Overview

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

General Installation Procedure

1. Detach vehicle interior door trim panel.
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 9.

PROCEDURE

Complete the following steps to properly install Angel Armor Avail Ballistic Door Panels (Level IIIA) for Ford Mustang Mach-E.

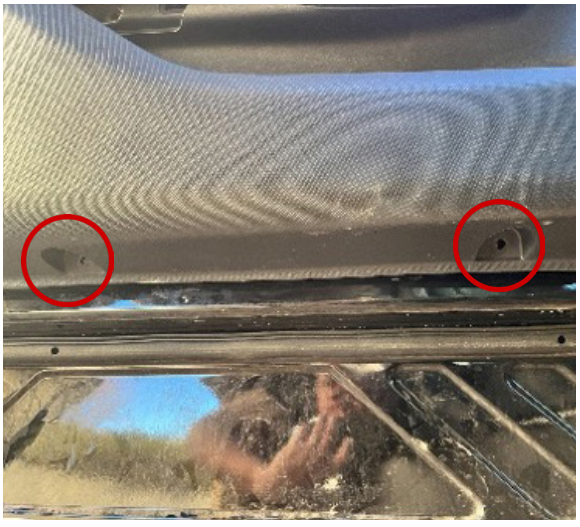
Removing the Interior Door Trim Panel

1 Locate the window sill trim molding rentention fastener.

- A This will require the removal of the door “handle”.
- B Remove the lower T27 torx that retains the door “handle”.
- C Remove the upper T20 torx that retains the trim and handle.
- D Remove door handle.

2 Remove the window sill trim by lifting vertically.

3 Locate and remove the 2 lower internal panel fasterners using a 7mm socket and ratchet located at the bottom of the panel.



4 Locate and remove the 2 upper internal panel fasteners using a 7mm socket and ratchet located below the grab handle behind a removable trim panel.

5 Remove the reflector. Locate the fasteners and remove it with a 7mm socket/ratchet.

6 Roll the window up to 2” from the fully closed position.

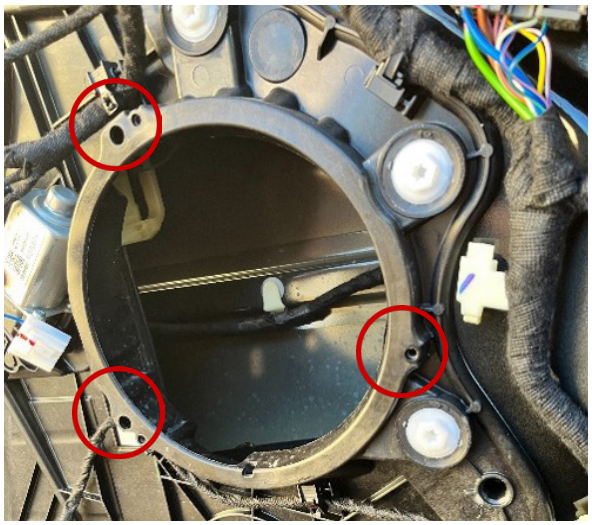
7 Remove the internal panel using trim tools to apply pressure to seperate the plug style fasteners.

8 Disconnect the battery.

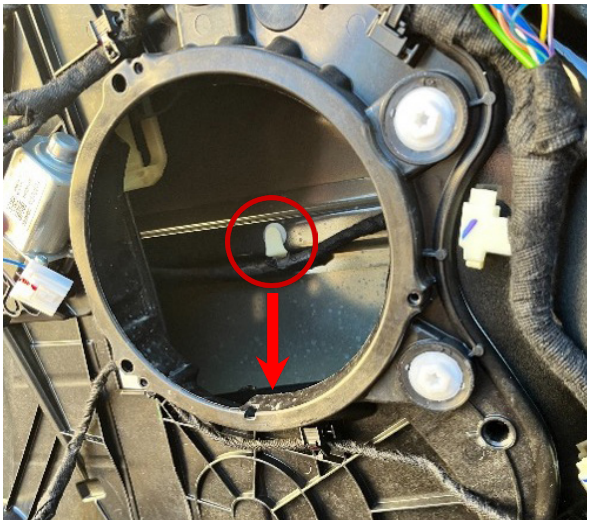
9 Remove the door handle and all electronic plugs to fully remove the interior door panel (door handle/window switch/courtesy light).

Prepping The Door Interior

1 Remove the door speaker by removing (3) fasteners with a 7mm socket and ratchet. Remove the electronic plug.



2 Accessing the interior wiring harness, remove the 2 plastic wire retention devices and install the provided adhesive backed retention pads below the crash bar.



Inserting The Ballistic Door Panel

1 Flex the door panel into a curved radius to allow for easier installation if the panel shape is similar to the outer face of the door.

2 With the interior door panel removed, slide the IIIA ballistic door panel in from the top at an angle and rotate the panel into position.

3 Utilizing the access created by removing the speakers, flex and guide the panel into the door until fully seated.

4 Verify that the ballistic panel is properly positioned ensuring the panel is 2 inches from the front of the window frame, and the crease in nylon fold at the top of the ballistic door panel aligns with and folds over the top edge of the window frame.

NOTES:

- Work the ballistic panel forward firmly to clear any obstructions, but 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.
- If the ballistic panel will not seat fully forward, shift the panel backward and move the door wiring harness to manually position.
- Verify that the ballistic panel is properly positioned ensuring the panel is 2 inches from the front of the window frame, and the crease in nylon fold at the top of the ballistic door panel aligns with and folds over the top edge of the window frame.
- If the ballistic door panel is not properly positioned, repeat steps 1 through 11 of this section.

Completing Installation

1 Reinstall all the panels and trims in reverse order.

2 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.

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 up to 2” from the fully closed position.

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

3 **Follow the steps in reverse order described in:**

Removing interior door trim panel (pg. 7)

Prepping the door interior (pg. 8)

4 Grip the nylon folds at the top edge of the Ballistic Door Panel.

5 Slide the Ballistic Door Panel toward the back of the vehicle, and then up to remove it from the door. Be sure to align the Ballistic Door Panel with the vertical window frame 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.