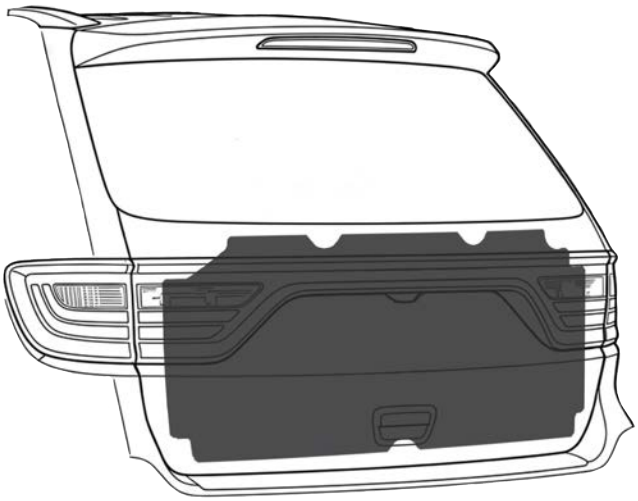
ANGEL ARMOR®

# AVAIL®

## VEHICLE HATCH

NIJ LEVEL IIIA



# INSTALLATION GUIDE

As shown on

**DODGE® DURANGO**
**(2011 & newer models)**

DODGE

*PRINT TO ACTUAL SIZE FOR DRILL GUIDE ACCURACY

MADE IN USA

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102126_A

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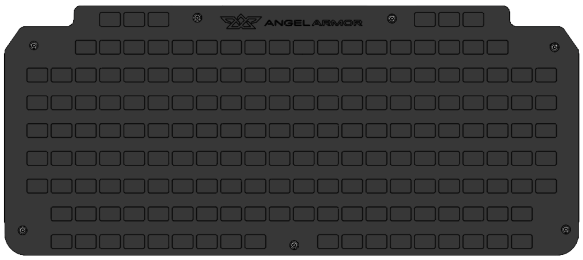

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# INTRODUCTION

Congratulations on your purchase of the Angel Armor® Avail® Vehicle Hatch (Level IIIA) for the Dodge® Durango (2011 & Newer)! It is our honor to provide advanced protection to those who put their life on the line in the name of law and order.

Your vehicle will soon be upfitted with the finest ballistic technology available. With optimized coverage area, a seamless design and powerful protection from NIJ Level IIIA handgun threats, Avail elevates vehicle protection to a higher level.




▲ Figure 1. Angel Armor Avail Vehicle Hatch (Level IIIA) for the Dodge Durango (2011 & Newer)

## Product Description

Angel Armor Avail Vehicle Armor (Level IIIA) is constructed of a strong, thin, and lightweight proprietary technology made for optimal coverage below the rear-hatch glass. The Vehicle Hatch features an integrated MOLLE attachment platform for mounting equipment up to 20 lbs. for expanded functionality without sacrificing usable space. 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 Vehicle Hatch (Level IIIA) for the Dodge Durango (2011 & Newer) exceeds NIJ Standard 0108.01 protocol for multi-round protection and offers a five-year express limited warranty. Within this period, the panel may be removed and transferred to another vehicle of the same make and model without violating the warranty.

## Installation Overview

The ballistic Vehicle Hatch panel installation shown in this guide was performed on the hatch of the Dodge Durango.

Avail Level IIIA Vehicle Hatch armor features a simple installation starting with marking and removing the hatch trim. This is required to install the rivet nuts and standoffs that hold the vehicle armor. Once this is completed, the vehicle hatch is reassembled and the armor is secured in place. Installation takes approximately 45-60 minutes per vehicle hatch.

## 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.

- 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 hatch disassembly, hatch re-assembly, and panel insertion.
- Do not drop screws or other assembly components inside the hatch, 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 hatch components that are inadvertently damaged during the installation process. Proper installation according to the instructions in this guide will not impair the hatch function in any way.
- Use caution when removing parts that may have sharp edges.

## TOOLS & PARTS LIST

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

### Required Tools

- Panel pry tools



Figure 2. Panel/trim removal tool

- Torx T27 key wrench (or screwdriver)



Figure 3. Torx T27 key wrench



Figure 4. Screwdriver

- Channel Locks or Wide Mouth Pliers



Figure 5. Channel locks



Figure 6. Wide mouth pliers

- Utility knife



Figure 7. Utility knife

- Drill



Figure 8. Drill

- ⅛” drill bit



Figure 9. ⅛” drill bit

- “X” or 25⁄64” drill bit



Figure 10. X drill bit



Figure 11. 25⁄64” drill bit

- Step drill bit



Figure 12. step drill bit

- Center punch



Figure 13. center punch

- Rivet tool and ¼”-20 Mandrel



Figure 14. Rivet tool



Figure 15. ¼”-20 Mandrel

- 12mm or ½” wrench



Figure 16. 12mm or ½” wrench

### Recommended Tools

- De-burring tool
- Touch-up paint
- Magnetic retrieval tool
- Headlamp or flashlight
- Safety glasses/face shield
- Loctite
- Door prop

## TOOLS & PARTS LIST

This section lists the parts included in the installation kit and the tools recommended for installation. Install kit contents are for one vehicle hatch.

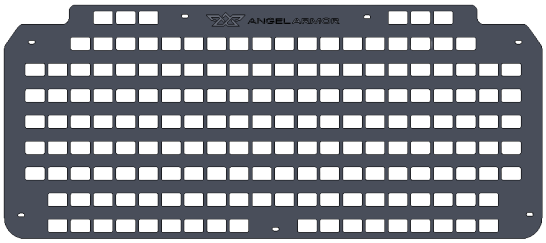
### Installation Kit Contents

- Angel Armor Ballistic Door Panel (Level IIIA) for Dodge Durango (2011 and newer models)



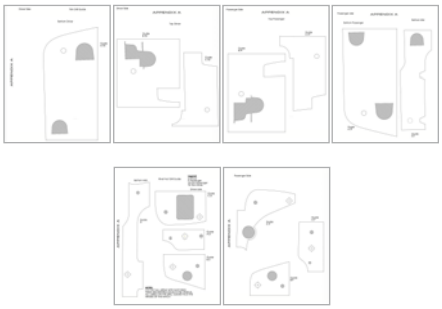
▲ Figure 17. Angel Armor Vehicle Hatch (Level IIIA) for the Dodge Durango (2011+)

- Aluminum MOLLE panel



▲ Figure 18. Aluminum molle panel for the Dodge Durango (2011+)

- Drill Appendix A and B (pg. 13-20)



▲ Figure 19. Drill Appendix A and B (6 pages total)

- One ⅞”, ¼”-20 standoff



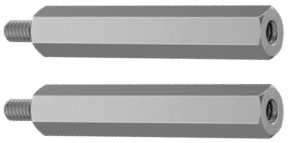
▲ Figure 20. ⅞” standoff

- Two 2”, ¼”-20 standoffs



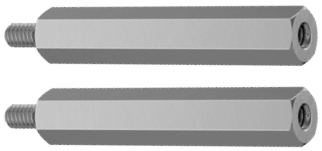
▲ Figure 21. 2” standoffs

- Two 2 ½”, ¼”-20 standoffs



▲ Figure 22. 2 ½” standoffs

- Two 3 ½”, ¼”-20 standoffs



▲ Figure 23. 3 ½” standoffs

- One 1/4”-20 rivet nut for .138”-.236” wall



▲ Figure 24. ¼”- 20 rivet nuts for .138”-.236” wall

- Six 1/4”-20 rivet nuts for .06”-.138” wall



▲ Figure 25. ¼”- 20 rivet nuts for .06”-.138” wall

# INSTALLATION KIT CONTENTS (CONTINUED)

- Seven 1/4”-20 x .75” button head bolts and M8 washers



▲ Figure 26. 1/4”-20 x .75” button head bolts and washers

- Angel Armor brand label




▲ Figure 27. Angel Armor brand label

- Isopropyl alcohol wipe




▲ Figure 28. Isopropyl alcohol wipe

# INSTALLATION

This section provides instructions for installing Angel Armor Avail Vehicle Hatch (Level IIIA) into the Dodge Durango (2011 & Newer).

## Overview

Installation of Angel Armor Avail Vehicle Hatch (Level IIIA) into the Dodge Durango is simple and starts with removing the hatch trim. Once this is completed, the vehicle hatch can be reassembled and the armor is secured in place. See procedure on page 9 for detailed instructions.

## General Installation Procedure

1. Remove hatch trim.
2. Preparing hatch trim.
3. Install vehicle hatch hardware.
4. Install Avail Vehicle Hatch.
5. Complete installation.

## Important Notes

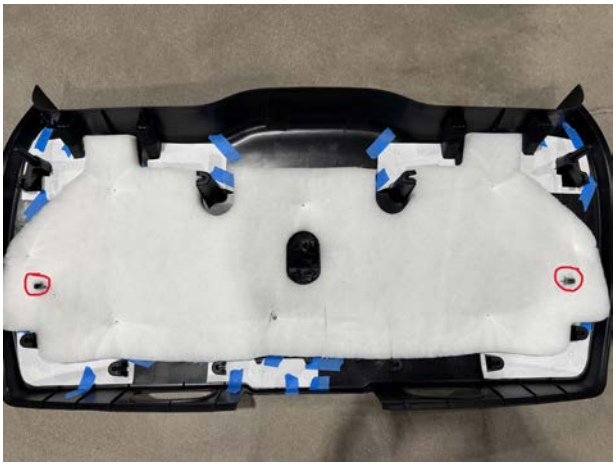
- The directions, photographs and illustrations in this guide depict an installation performed on the hatch.
- Note the location of screws and hatch components before disassembling to aid proper re-assembly before panel installation.
- Place all removed hardware and components in a safe place during installation.
- Angel Armor Avail Ballistic panels are semi-rigid, which allows them to be bent slightly for easy installation. To help prevent damage to the Vehicle Hatch 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 hatch components.
- Bypass obstructions inside the hatch by angling the panel during insertion as described in Installing the Avail Vehicle Hatch, on page 10.

## PROCEDURE

Complete the following steps to properly install Angel Armor Avail Vehicle Hatch (Level IIIA) for the Dodge Durango (2011 & newer).

### Removing the Hatch Trim

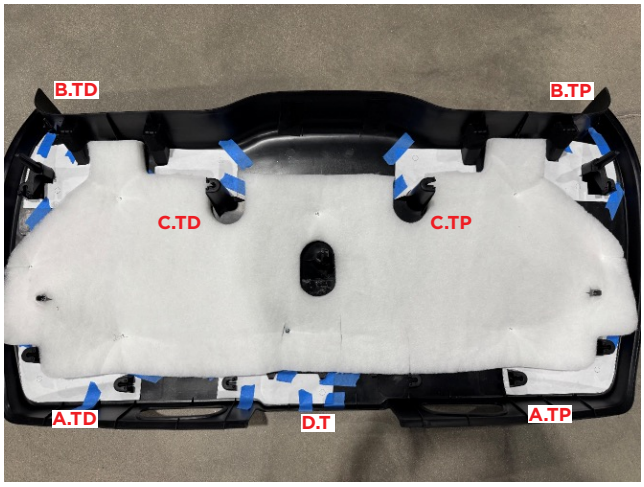
1. Open the rear hatch.
2. Remove the bottom hatch handle covers.
3. Starting from the bottom of the trim panel, push all plastic snap rivets out with outward force until the hatch panel is free.
4. Disconnect the wiring harness from the light trim panels and any other accessory it may be attached to.
5. Lay aside the hatch panel on a flat surface.



▲ Figure 29. Location of trim wiring on hatch trim

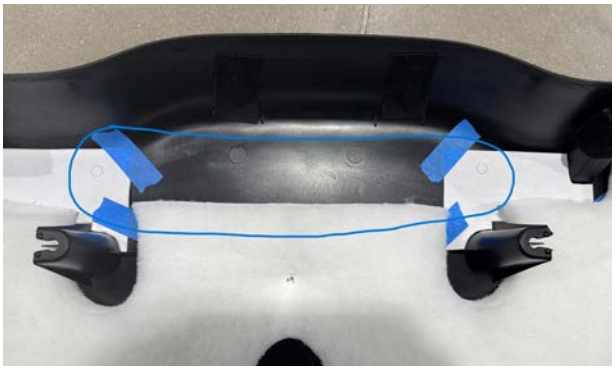
### Preparing the Hatch Trim

1. Flip the hatch trim so that the side with clips and vibration dampening material faces upward, towards the installer.
2. Align the drill guides from Appendix A with their specified areas on the interior of the hatch trim.




▲ Figure 30. Drill guides from Appendix A in their correct locations

3. Using a utility knife, cut out a section of the vibration dampening material between the the top middle two trim drill locations, 2 ¼” from the top of the trim.



▲ Figure 31. Location of material cut out

4 Center punch all holes shown in the drill guides.

5 Use the ⅛" drill bit to drill all seven center-punched holes.

6 Flip the hatch trim so that the side with clips and vibration dampening material faces downward, away from the installer.

7 Locate all of the holes drilled in step 6 and using a step drill bit, drill up to ¾" in the seven trim holes.



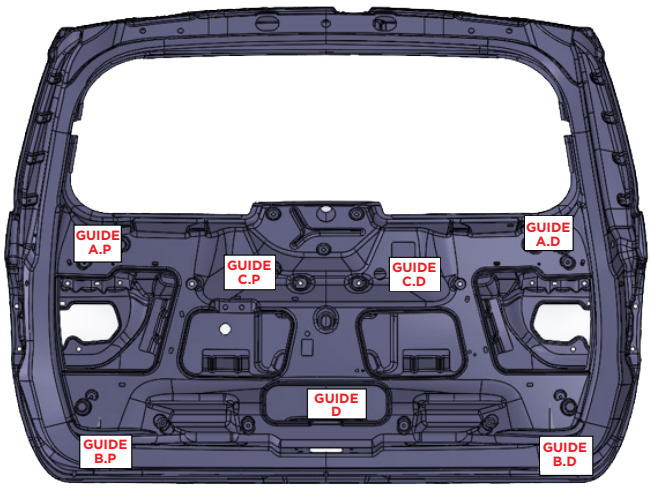
▲ Figure 32. Holes drilled in the hatch trim

8 Use the utility knife to cut of any excess plastic that may be sticking out.

## Installing the Vehicle Hatch Hardware

1 Align the drill guides from Appendix B with their specified areas on the interior of the hatch, as shown in Figure 33.

**NOTE:** Once drill guides have been aligned with the hatch holes, pull the drill guides tight to ensure proper alignment.




▲ Figure 33. Drill guides from Appendix B in their correct locations

2 Use a 25⁄64" or "X" drill bit to drill out rivet nut holes in the hatch.

**NOTE:** The bottom middle hole (Guide D location in Figure 33) is double-wall thick.

3 Locate the double wall thick rivet nut and install the rivet nut into the bottom middle hole using a rivet tool and ¼" mandrel. See Figure 34 (below).



▲ Figure 34. Installing the rivet nut into bottom middle hole

4 Install all six single wall thick rivet nuts in the other six drill locations using a rivet tool and ¼" mandrel.

5 Apply Loctite to all standoffs before inserting the standoffs into the rivet nut locations.

6 Install all seven standoffs in their respective locations, referencing Figure 35 and the list following.



▲ Figure 35. Installing standoffs into the hatch

A 3 ½" standoff (Guide C.D, C.P)

B 2 ½" standoff (Guide B.D, B.P)

C 2" standoff (Guide A.D, A.P)

D ⅞" standoff (Guide D)

7 Tighten the standoffs to 6ft-lbs. with a channel lock or ½" wrench.

**NOTE:** Be careful not to strip the threads while tightening.

## Installing the Avail Vehicle Hatch

1 Re-install the trim pieces in reverse order of removal.

**NOTE:** Rivet nut installation can warp the hatch skin. Use channel locks or pliers to re-align standoffs with the holes in the trim if needed.

2 Hold the aluminum MOLLE panel up to the hatch trim, with the Angel Armor logo facing away from the trim.

3 Apply Loctite to all seven ¾" Torx head bolts.

4 Loosely fasten the top two middle bolts using two ¾" bolts with washers.

5 Slide the ballistic panel between the aluminum MOLLE panel and hatch trim, with the Angel Armor label facing towards the trim.

**NOTE:** Slanted angle cut should be aligned on the passenger side during installation.



▲ Figure 36. Slanted angle aligned during installation

6 Loosely install the bottom two corner bolts.

7 Loosely install the top two corner bolts.

8 Loosely install the last bottom middle bolt.

9 Tighten all Torx head bolts to 6ft-lbs. using a Torx T27 key wrench or Torx screwdriver.



▲ Figure 37. Correct final placement of hatch ballistic and MOLLE panels

## Completing Installation

1 Ensure proper closure of the hatch.

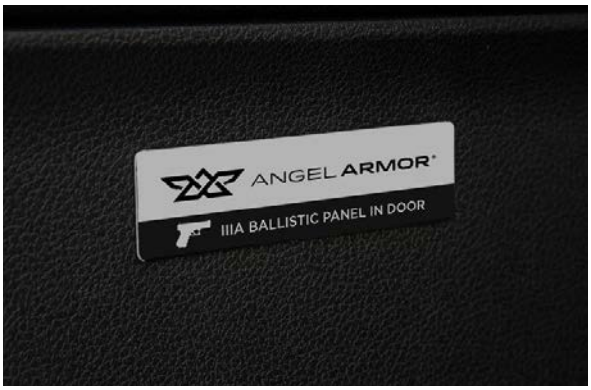
2 Attach the Angel Armor brand label to the interior of the hatch by completing the following procedure:

A Clean the attachment location on the hatch with isopropyl alcohol.

B Allow the hatch surface to dry completely.

C Remove backing from the brand label.

D Apply the brand label to the hatch, pressing for at least 30 seconds to ensure proper adhesion.




▲ Figure 38. 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 Vehicle Hatch for decommission or transfer to another vehicle.

1. Remove Angel Armor brand label.
2. Partially unscrew all bolts and remove bolts from the bottom three standoffs.
3. Remove the Vehicle Hatch IIIA ballistic panel.
4. Remove all other bolts and MOLLE panel.
5. Remove all hatch trim pieces.
6. Remove all standoffs.

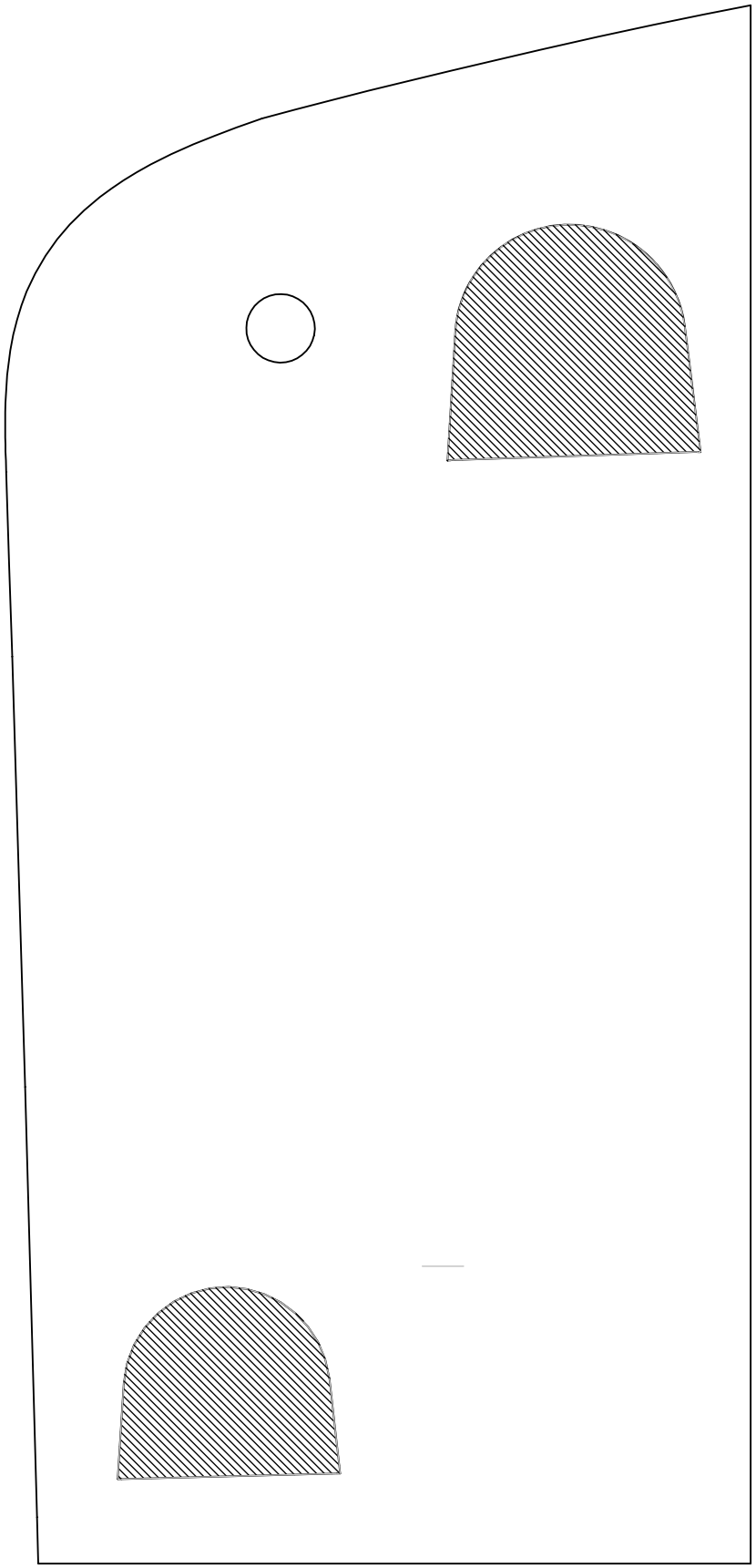
   NOTE: Rivet nuts can be left in the hatch, as they will not interfere with proper function of the hatch.
7. Reinstall hatch trim.

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

Driver Side

Trim Drill Guide

Bottom Driver



Guide
A.TD

APPENDIX A

**NOTES:**

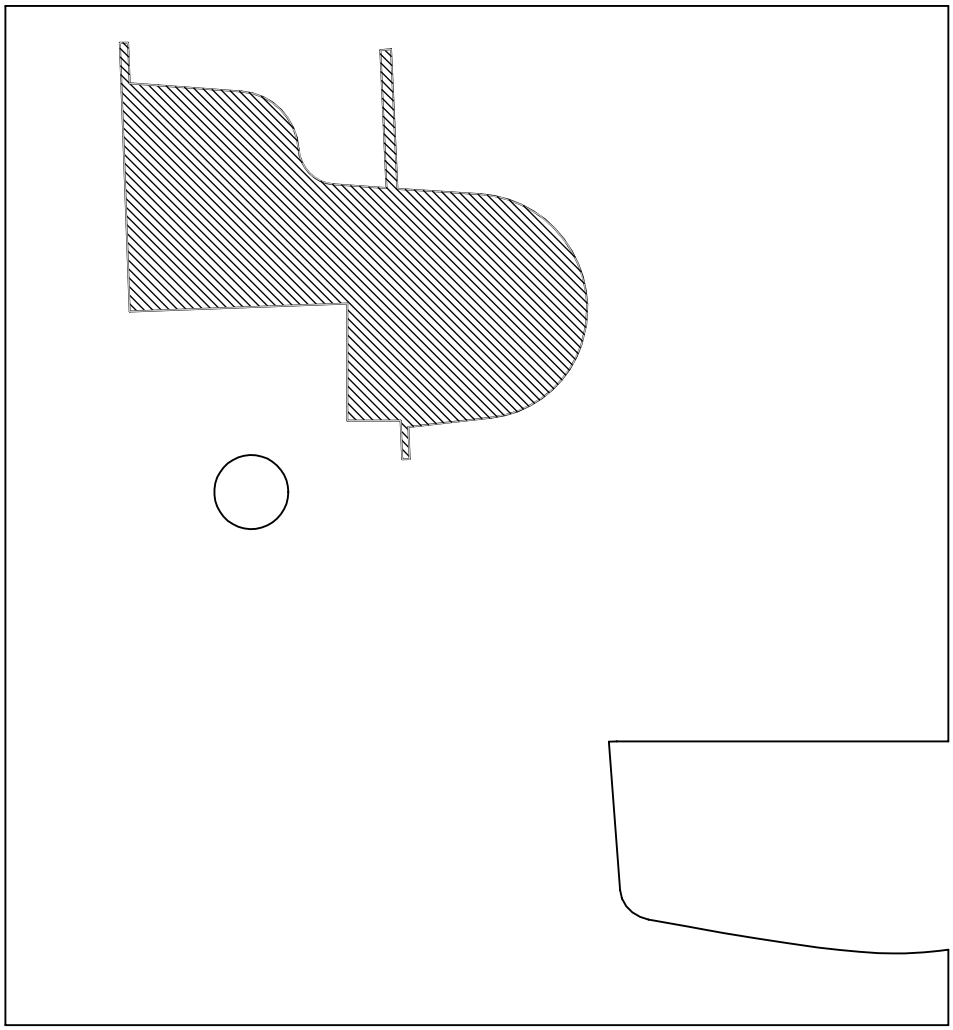
CUT OUT ALL AREAS WITH HATCHING. THESE ARE EXISTING HOLES IN THE VEHICLE. ALL LABELS ON THE DRILL GUIDES FACE THE HINGES OF THE HATCH.

Driver Side

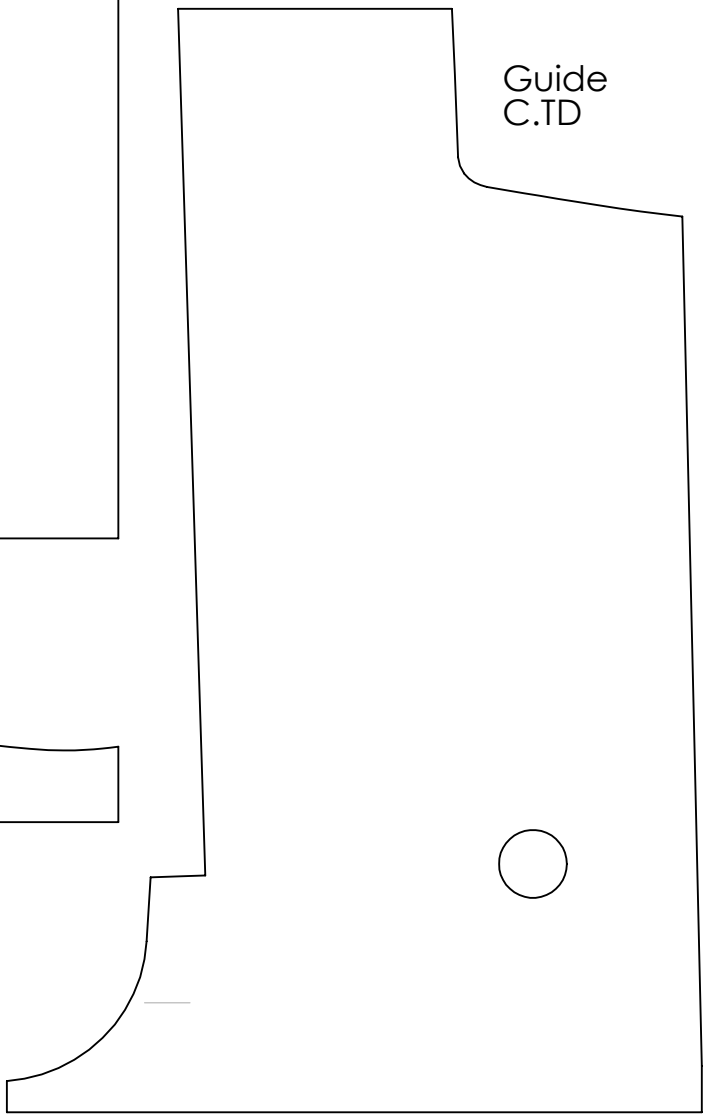
# APPENDIX A

Top Driver

Guide
B.TD

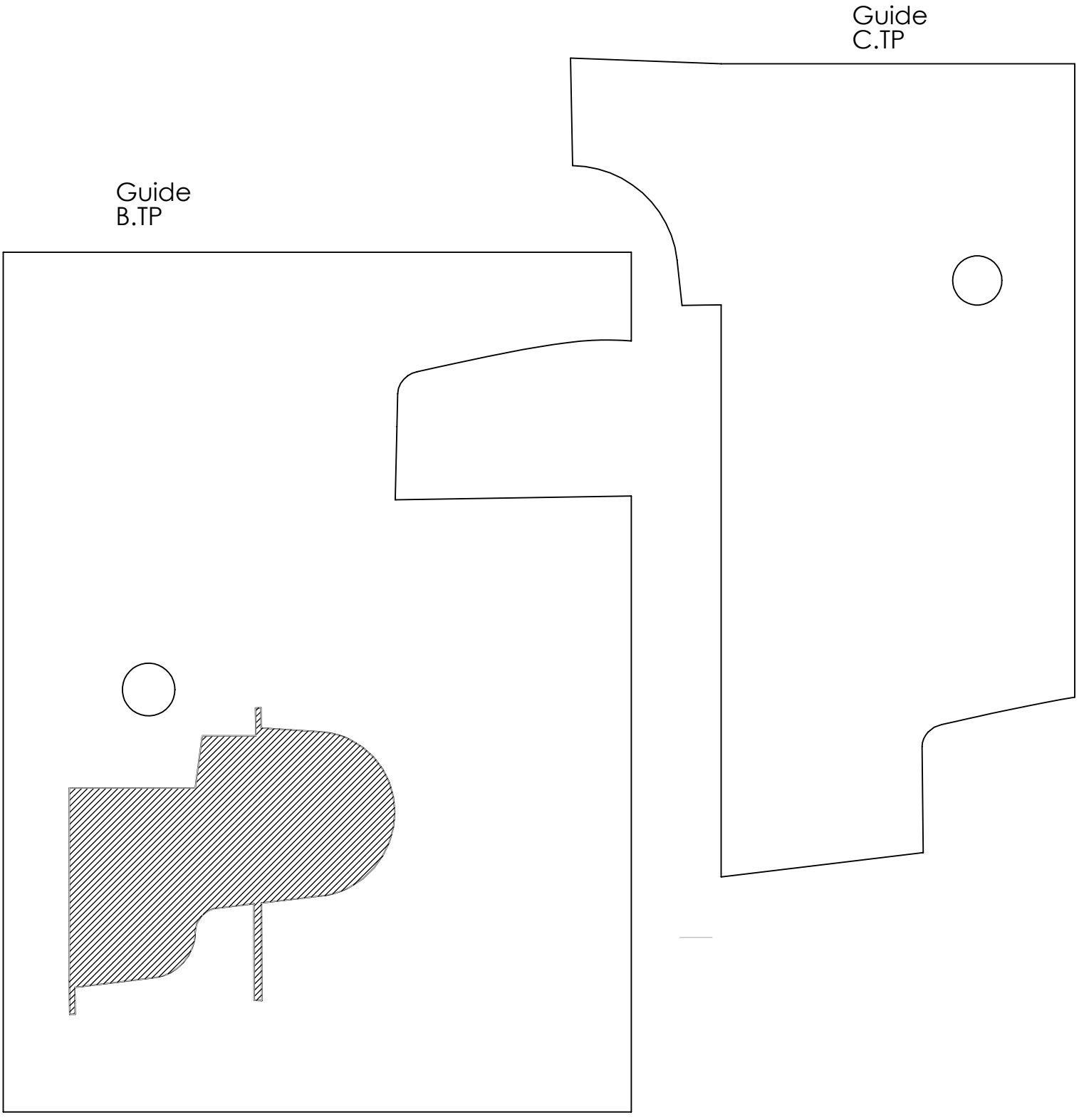


Guide
C.TD



# APPENDIX A

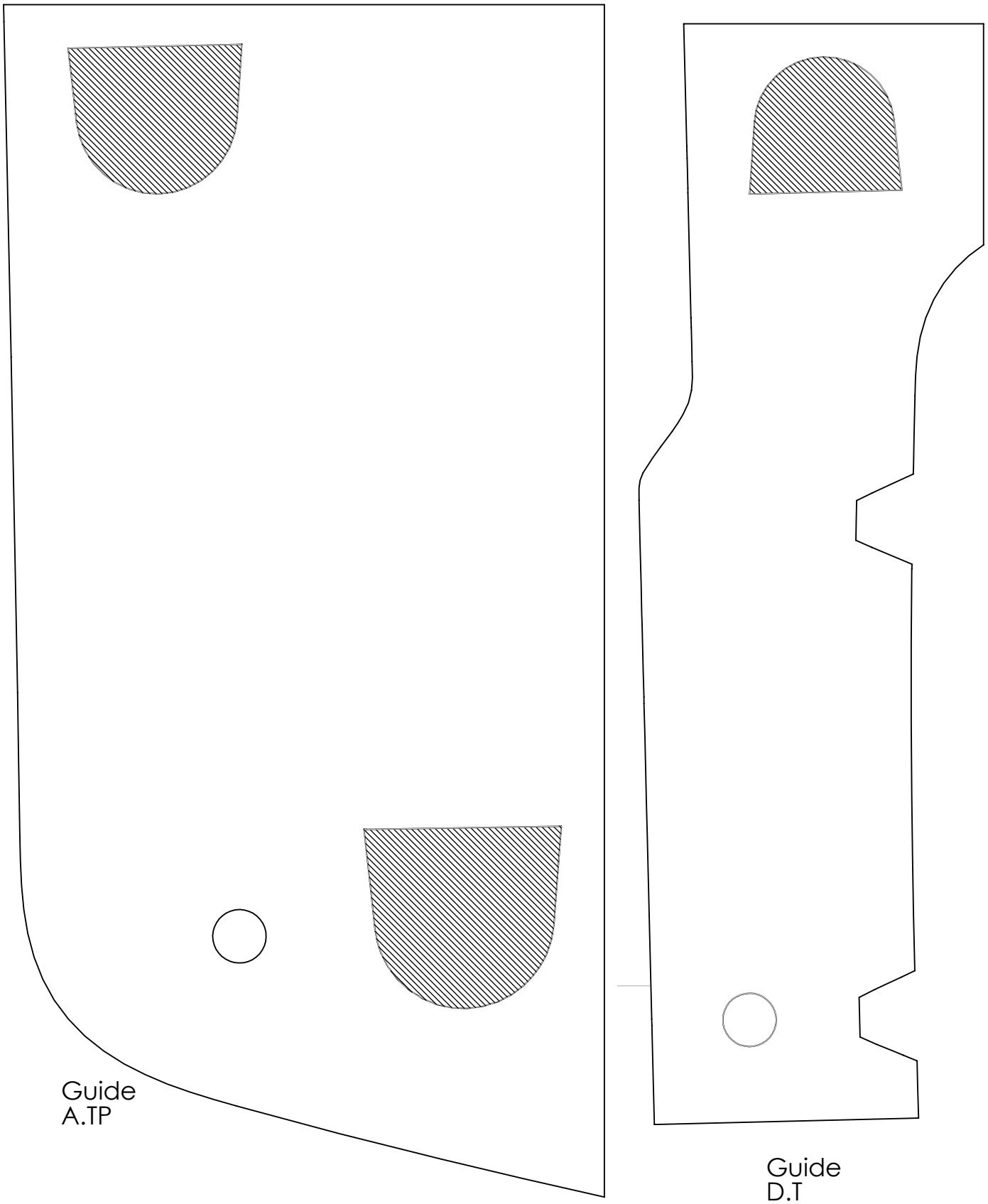
Top Passenger



# APPENDIX A

Bottom Mid

Bottom Passenger



Guide
A.TP

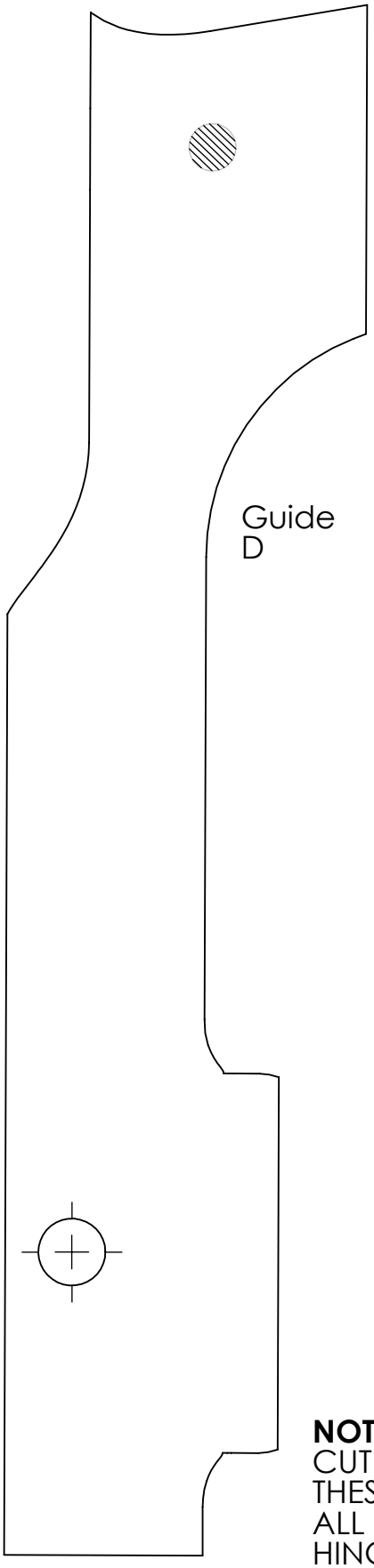
Guide
D.T

# APPENDIX B

Rivet Nut Drill Guide

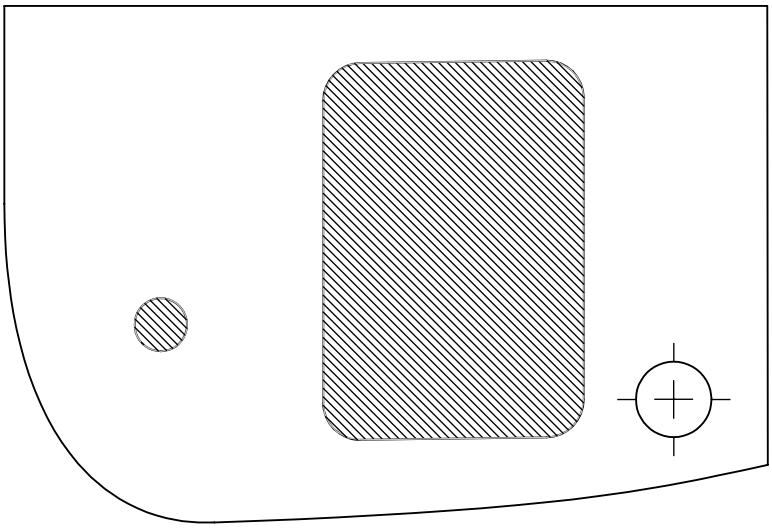
**Legend**:
D-Driver
P-Passenger
TP-Trim Passenger
TD-Trim Driver

Bottom Mid

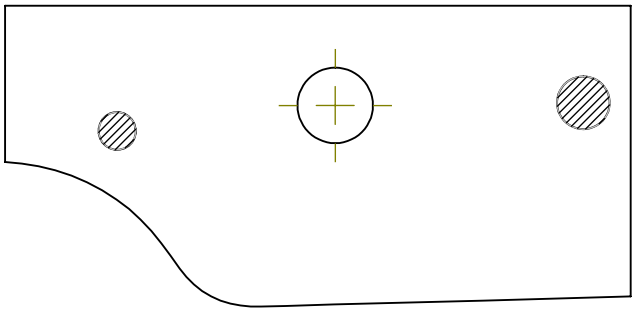


Guide
D

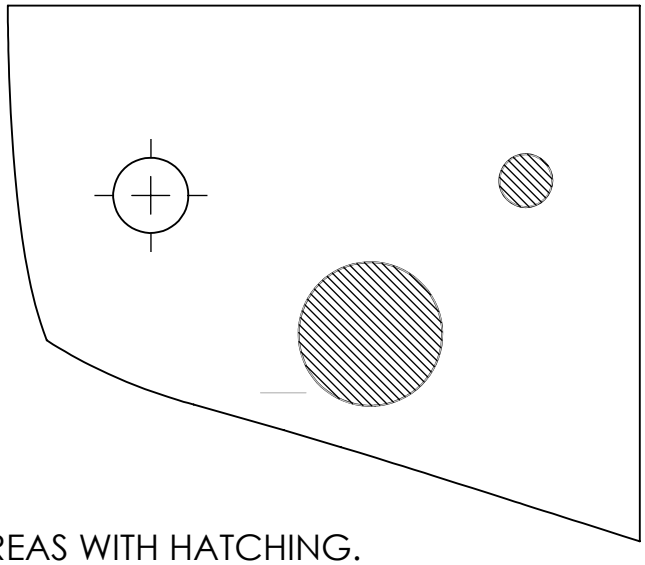
Driver side



Guide
C.D



Guide
A.D



Guide
B.D

**NOTES**:
CUT OUT ALL AREAS WITH HATCHING.
THESE ARE EXISTING HOLES IN THE VEHICLE.
ALL LABELS ON THE DRILL GUIDES FACE THE HINGES OF THE HATCH

Passenger Side

APPENDIX B

