

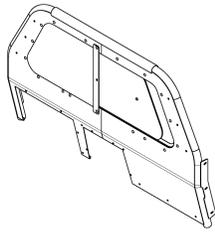
INSTALLATION GUIDE

**2020 - CURRENT
FORD POLICE INTERCEPTOR UTILITY
VIPER SHIELD PARTITION
PVS47XX20**

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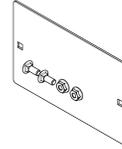
**THESE COMPONENTS ARE REQUIRED
TO INSTALL THE VIPER SHIELD PARTITION**



3P5000-V



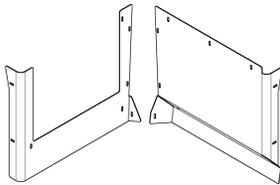
4PAK472000



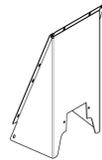
4LEK472003



4WIK472000



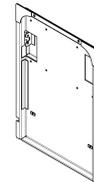
3LEP472000 & 03



3REP472000



4LEK472002



VSHA001

I. The following tools will be required to complete the installation

- | | | |
|--------------------|----------------------------|-----------------------|
| A. 3/16" drill bit | E. 3/16" hex wrench | I. Trim removal tools |
| B. 3/8" socket | F. 7/16" socket | J. 9/32" drill bit |
| C. Centering punch | G. 7/16" open ended wrench | |
| D. 1" hole saw | H. 13mm socket | |

II. Read all instructions and refer to the Parts List to ensure all parts were received.

WARNING: *Locate all wiring, fuel lines, brake lines, coolant lines, and refrigerant lines before drilling any holes or installing any self-drilling fasteners.*

III. B-Pillar Preparation

- A. Remove the front and rear passenger door seal rubbers from the B-pillar and the front and rear sills.
- B. Remove the front and rear passenger door sill plates.
- C. Remove the driver lower B-pillar trim. There is (1) vertical clip in each of the front and rear sill areas. The remaining clips are horizontal on the B-pillar.
- D. Locate the bundle of wires that is routed up the B-pillar. Remove the uppermost clip from the B-pillar making note of the slot it was inserted in.
- E. Remove the clip from the wire bundle to prevent rattles.
- F. Repeat on the passenger side of the vehicle.

IV. B-Pillar Bracket Installation

- A. Place the Driver B-pillar Bracket [3PAK472000] against the vehicle B-pillar. Route the bundle of wires underneath the bracket and ensure that the seatbelt is on top of the bracket. The order from outside to inside should be: vehicle B-pillar, wire bundle, B-pillar bracket, seatbelt.
- B. (1) of the [3X162] self drilling screws is used to set the height of the bracket. Insert a screw through the lowest hole on the bracket (Fig 1a) and into the slot that the wire clip was removed from in Section III Step D (Fig 1b). The screw should be in the very bottom of the slot.

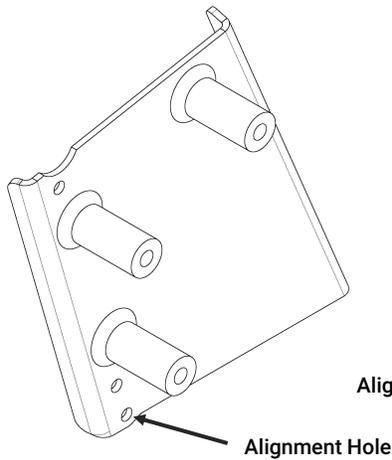


Figure 1a

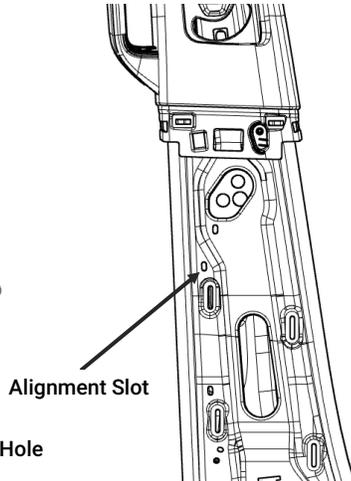


Figure 1b

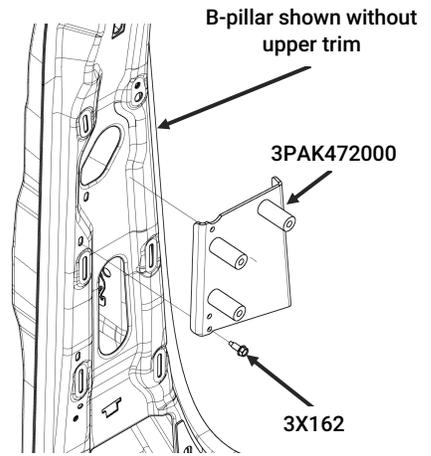


Figure 1c

- C. Verify that the B-pillar bracket is located correctly by checking that the notch on the top of the bracket is well-fit around one of the embossed areas for an upper B-pillar trim clip (Fig 2).
- D. Secure the B-pillar bracket in place with a 3/8" socket and (4) [3X162] self drilling screws. The holes can be pre-drilled with a 3/16" drill bit if necessary.
- E. Remove the locating screw that was used in step B.
- F. Repeat on the passenger side using the Passenger B-pillar Bracket [3PAK472001].

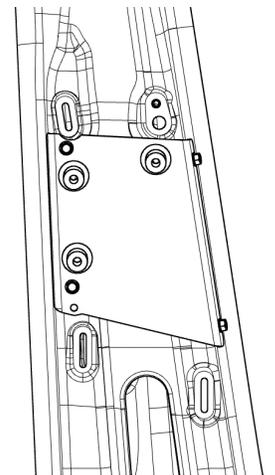


Figure 2

V. B-pillar Trim Modification and Reinstallation

- A. Use the template supplied on the last page to mark the three hole locations in each of the lower B-pillar trim panels.
- B. Using a 1" hole saw, drill the holes marked in the previous step.
- C. Reinstall the lower B-pillar trim followed by the front and rear door sill plates and the door seal rubber.
- D. The OEM components should now be fully reassembled.

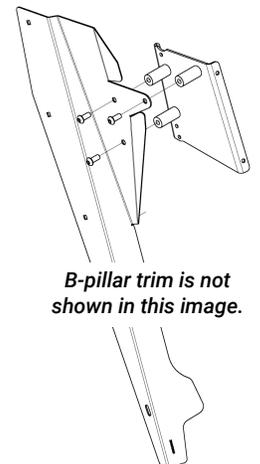


Figure 3

VI. Mounting Plate Installation

- A. Locate the Driver Mounting Plate [3PAK472010] and (3) button head screws [3X149].
- B. Align the (3) holes in the plate with the (3) standoffs protruding through the B-pillar trim and loosely secure with the button head screws (Fig 3). The fasteners will be tightened in a later section.
- C. Repeat on the passenger side using the Passenger Mounting Plate [3PAK472009].

VII. Partition Installation

NOTE: Due to the size and weight of the partition it is recommended that two people lift and position the partition in the vehicle.

- A. Prepare (3) carriage bolts [3X36] and (3) whiz nuts [3X16Z] on each side of the vehicle.
- B. Position the partition [3P5000] inside the vehicle and align the three uppermost holes in each of the mounting plates with the respective slots on the partition. The flanges on the partition go on the inside face of the mounting plates.
- C. Loosely secure in place with the fasteners prepared in Step A. Install the fasteners such that the smooth head of the carriage bolt is facing towards the outside of the vehicle (Fig 4). The fasteners will be tightened in a later section.

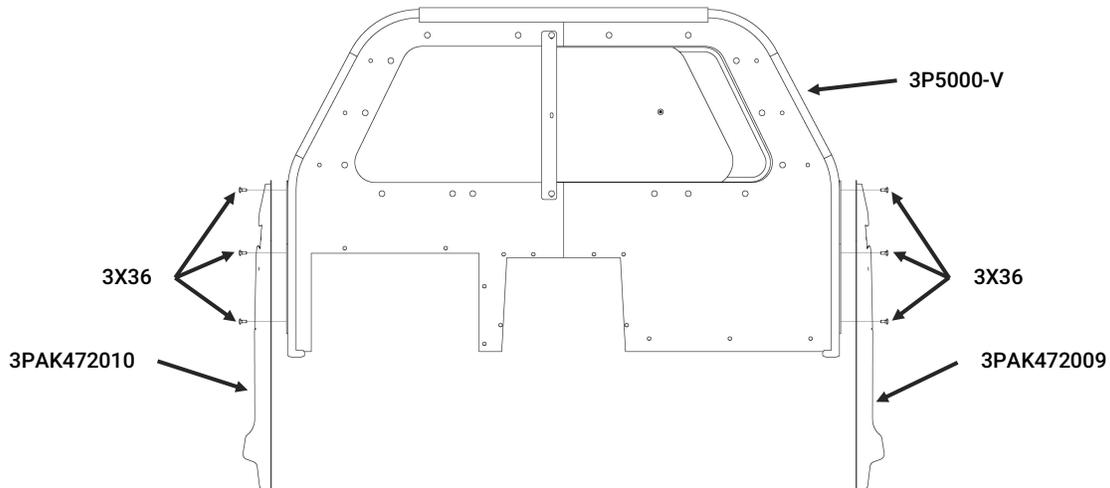


Figure 4

VIII. Wire Raceway Cover Kit

- A. Locate the Wire Raceway Cover Kit [4LEK472003] which consists of the Wire Raceway Cover Panel [3LEP472004], (2) carriage bolts [3X36], and (2) whiz nuts [3X16Z].
- B. If not using the OEM Wire Raceway, place the Wire Raceway Cover Panel on the inside of the Recess Panel [3REP472000] and secure with the (2) fasteners (Fig 5). If the OEM Wire Raceway is to be utilized, install only the fasteners in order to fill in the holes. Tighten the fasteners with a 7/16" socket.

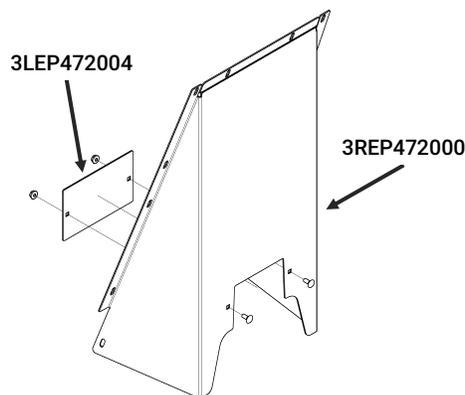


Figure 5

X. Lower Extension Panels with the Recess Panel

- A. Set the Recess Panel [3REP472000] into the vehicle with the flanges towards the front of the vehicle. Slide to the rear of the footwell.
- B. Place the Passenger Lower Extension Panel [3LEP472001] into the vehicle and slide the outside flange between the partition and the mounting plate (Fig 6a). Align the three holes at the top of the panel and the two holes along the outside of the panel with their respective holes in the partition and the mounting plate (Fig 6b).
- C. Loosely install a carriage bolt [3X36] with whiz nut [3X16Z] into each of the (5) holes identified in the previous step. Install the fasteners such that the smooth head of the carriage bolt is facing towards the rear of the vehicle.

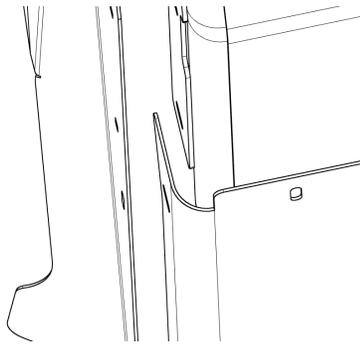


Figure 6a

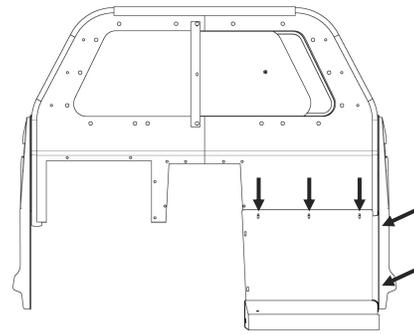


Figure 6b

- D. Remove the ballistic panel from the Viper Shield Housing [VSHA001]. Slide the housing into position on the driver side of the partition and hang in place by loosely installing a carriage bolt [3X36] and whiz nut [3X16Z] into the top (3) holes (Fig 7a).
- E. Place the Viper Shield Lower Extension Panel [3LEP472003] into the vehicle and slide the outside flange between the partition and the mounting plate as was done in Step B for the passenger side. Align the three holes in the face of the panel with the corresponding holes in the Viper Shield Housing and align the two holes along the outside of the panel with their respective holes in the mounting plate (Fig 7b).
- F. Loosely install a carriage bolt [3X36] and a whiz nut [3X16Z] into each of the (5) holes identified in the previous step. Install the fasteners such that the smooth head of the carriage bolt is facing towards the rear of the vehicle.

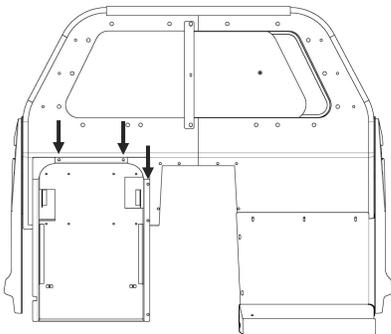


Figure 7a

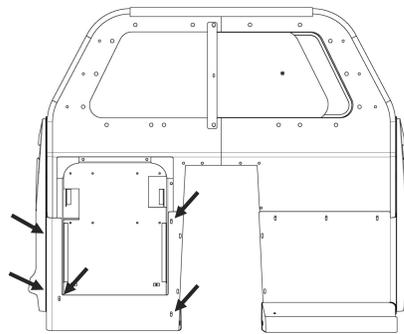


Figure 7b

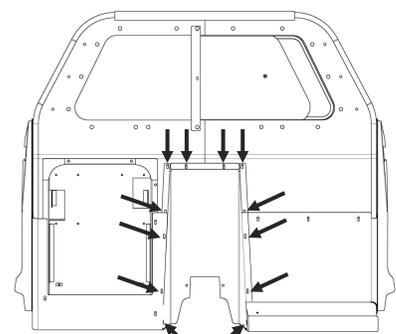


Figure 7c

- G. Slide the Recess Panel forward and align all (12) holes with their respective holes in the partition and lower extension panels (Fig 7c).
- H. Loosely install a carriage bolt [3X36] with whiz nut [3X16Z] into each of the (12) holes identified in the previous step. Install the fasteners such that the smooth head of the carriage bolt is facing the rear of the vehicle.

XI. Tightening the Bolts

- A. Adjust the partition forwards or backwards until a desirable fit is achieved. Sliding the partition forward will maximize prisoner space, while sliding the partition backward will maximize officer space. If using the OEM rear seat it is recommended to slide the partition all the way forward. Tighten the (6) fasteners holding the partition to the mounting plates using a 7/16" socket. These are the fasteners that were loosely installed in Section VII, Step C.
- B. Have a second person push forward on the top of the partition while the first person uses a 3/16" Hex wrench to tighten the (6) button head screws holding the mounting plates to the B-pillar brackets. These are the fasteners that were loosely installed in Section VI, Step B. This step will slightly rotate the partition causing it to fit tighter against the headliner.
- C. Adjust the Lower Extension Panels to achieve the desired fitment and then tighten all the relevant fasteners using a 7/16" socket.

XII. Install the Reinforcement Bracket

- A. Using a 13mm socket, remove the rear inboard bolt from the passenger seat.
- B. Place (1) Reinforcement Bracket [3PAK472004] on top of the seat rail and loosely reinstall the OEM bolt removed in Step A.
- C. Align the slotted end of the Reinforcement Bracket with the corresponding hole in the Lower Extension Panel [3LEP472001]. Use (1) carriage bolt [3X36] and (1) whiz nut [3X16Z] to secure the bracket to the Lower Extension Panel. Tighten with a 7/16" socket (Fig 8).
- D. Tighten the seat bolt that was loosely installed in step B to OEM torque.

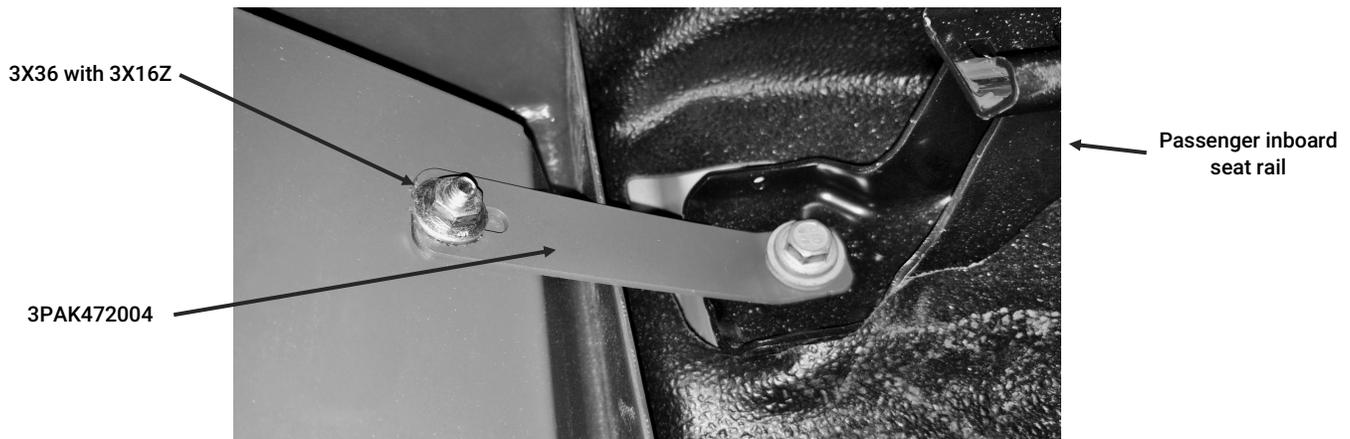


Figure 8

XIII. Release Handle Installation

- A. Locate a suitable location to mount the pull handle. Ensure the desired location allows for a minimum bend radius of 2.5" for the cable. The recommended location is on the Driver Mounting Plate [3PAK472010] just above where the mounting plate attaches to the B-pillar bracket (Fig 9).
- B. Hold the handle in place and mark the center holes on either side of the handle.
- C. Using a 9/32" drill bit drill the holes marked in Step B.
- D. Install the handle with the included hardware placing the nuts between the mounting plate and the B-pillar trim.
- E. Place the bottom of the ballistic shield into the housing and firmly push the top into place to latch. Pull the handle and ensure the shield releases properly.



Figure 9

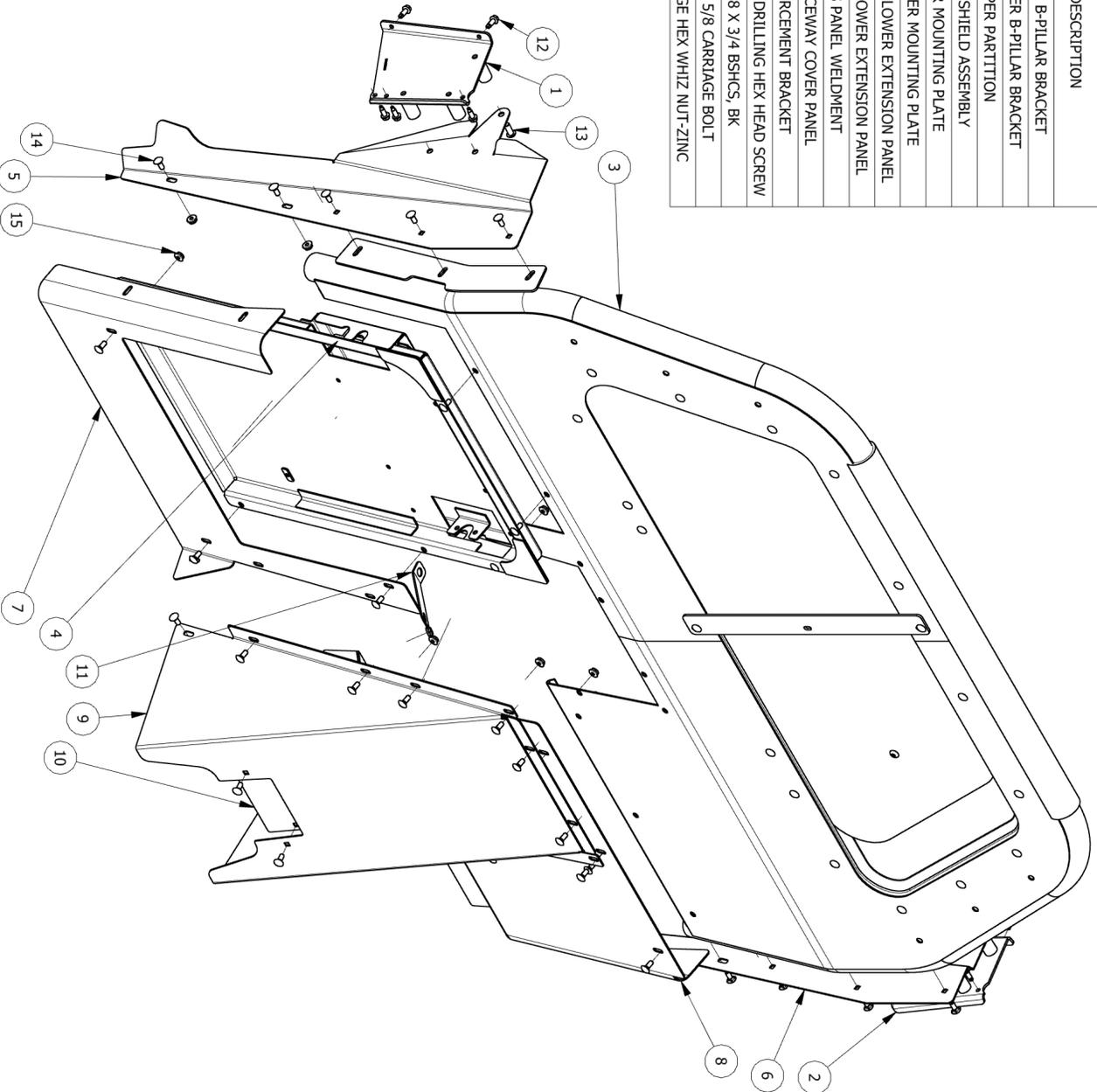
XIV. Finishing Steps

- A. Ensure all fasteners installed in this installation are tight and all panels secure.
- B. Install the wings according to the instructions included with them.
- C. Place plastic caps [3X145] over all fasteners protruding from the partition.

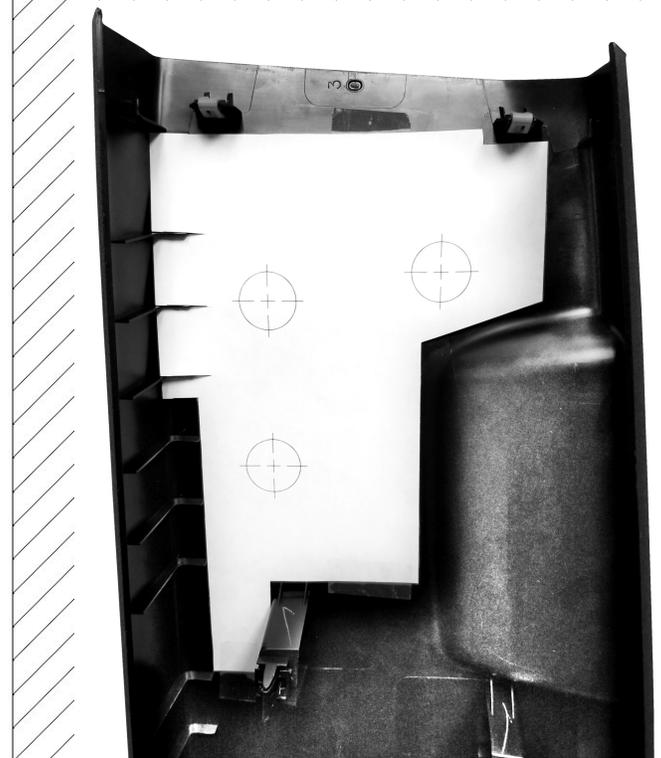
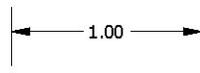
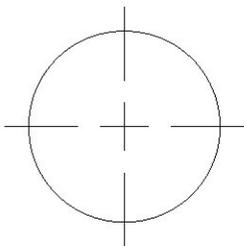
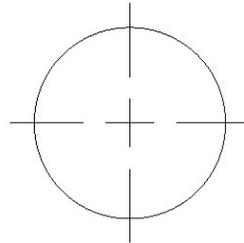
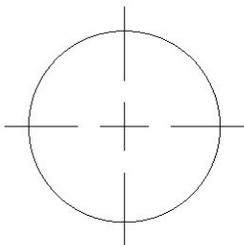
Installation complete

If you have any problems with this installation or have any questions please call (800-480-6680) and ask for technical assistance.

PARTS LIST			
ITEM	QTY	PART NUMBER	REVISION NUMBER DESCRIPTION
1	1	3PAK472000	A DRIVER B-PILLAR BRACKET
2	1	3PAK472001	A PASSENGER B-PILLAR BRACKET
3	1	3P5000-V	VIPER PARTITION
4	1	VSHA001	E VIPER SHIELD ASSEMBLY
5	1	3PAK472010	A DRIVER MOUNTING PLATE
6	1	3PAK472009	A PASSENGER MOUNTING PLATE
7	1	3LEP472003	B VIPER SHIELD LOWER EXTENSION PANEL
8	1	3LEP472001	B PASSENGER LOWER EXTENSION PANEL
9	1	3REP472000	B RECESS PANEL WELDMENT
10	1	3LEP472004	B WIRE RACEWAY COVER PANEL
11	1	3PAK472004	A REINFORCEMENT BRACKET
12	10	3X16Z	#14 x 3/4" SELF DRILLING HEX HEAD SCREW
13	6	3X149	5/16-18 X 3/4 BSHCS, BK
14	34	3X36	1/4-20 X 5/8 CARRIAGE BOLT
15	34	3X16Z	1/4-20 LARGE HEX WHIZ NUT-ZINC



2020 - Current
Ford Police Interceptor Utility
B-pillar Template



Directions

1. Cut and remove the hatched area. Cut the horizontal lines on the left side of the template.
2. Place the template against the back side of the lower passenger B-pillar trim.
3. Align as shown in the image with the slices in the top left of the template allowing the top three ribs of the trim to protrude through. The lower tab of the template should be just touching the uppermost trim standoff.
4. Use a center punch to mark the center of the holes in the B-pillar trim.
5. Remove the template and drill the marked locations with a 1" hole saw.
6. Flip the template over and repeat for the driver B-pillar trim. Use the holes left in the template from step 4 for the locations to center punch the driver side.