

## K9-F23-1 INSTALLATION INSTRUCTIONS

### K9 Kit for 2015-2023 Ford F-150 and F-150 SSV Crew Cab Pickup 2017-2023 Ford F-250, 350 and 450 Crew Cab Pickup

**TOOLS Needed:**

Phillips Screw Driver	Trim panel removal tool	Caulk Gun	Metric Socket set
Standard Socket set	Wire Cutters /Crimpers	Drill & Drill bits	T-20 Torx bit

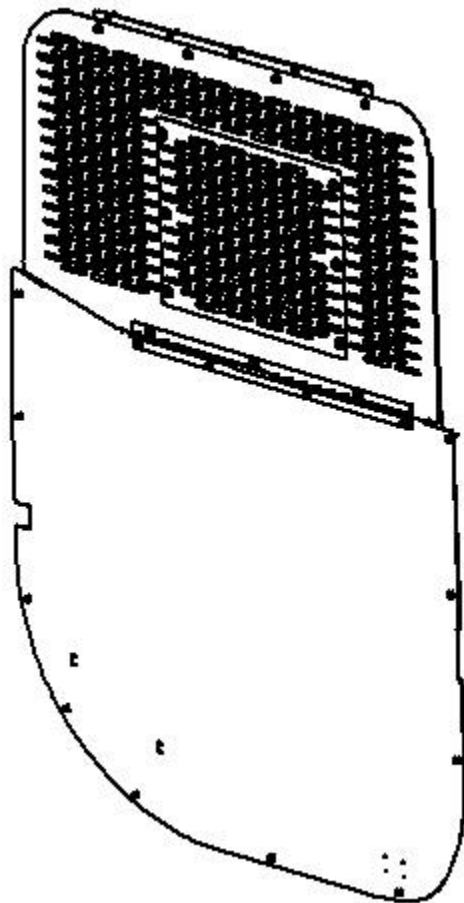
**PARTS & HARDWARE:**

<u>QTY</u>	<u>DESCRIPTION</u>	<u>PART #</u>	
		<u>White</u>	<u>Black</u>
1	Front bulkhead	18969	23502
1	Driver side Upper "B" pillar bracket		18664
1	Passenger side Upper "B" pillar bracket		18663
1	DS inner "B" pillar bracket (for 2021 F-150)		24720
1	PS inner "B" pillar bracket (for 2021 F-150)		24725
1	DS outer "B" pillar bracket (for 2021 F-150)		24721
1	PS outer "B" pillar bracket (for 2021 F-150)		24726
1	Rear bulkhead	22951	23499
1	Rear bulkhead support bracket		18677
1	Floor		23485
1	Front floor support bracket		18656
1	Rear floor support bracket		18655
1	Ceiling	18662	23497
1	Passenger side upper filler	18670	23492
1	Driver side upper filler	18669	23491
1	Passenger side middle filler (upper)	18672	23494
1	Passenger side middle filler (lower)	18668	23490
1	Driver side middle filler (upper)	18671	23493
1	Driver side middle filler (lower)	18667	23489
1	Lower floor side trim	18665	23487
1	Lower floor side trim with gas shock cutout	18666	23488
1	Gas shock hole cover plate		23495
2	Under seat vent adaptor base		18673
2	Under seat vent adaptor top		18675
1	Rubber Mat		18676
1	Passenger side door panel	14667	14668
1	Driver side door panel	14665	14666
1	Passenger side hinged window guard		21239
1	Driver side hinged window guard		21238
1	Dome Light Kit		17987
1	Rear wall storage cover	22952	23500
2	Round Vent		18357
6	feet 2.5" diameter vent hose		20039
1	Silicone caulk (sealant)	20011	20012
4	1" spacer for floor support bracket		11441

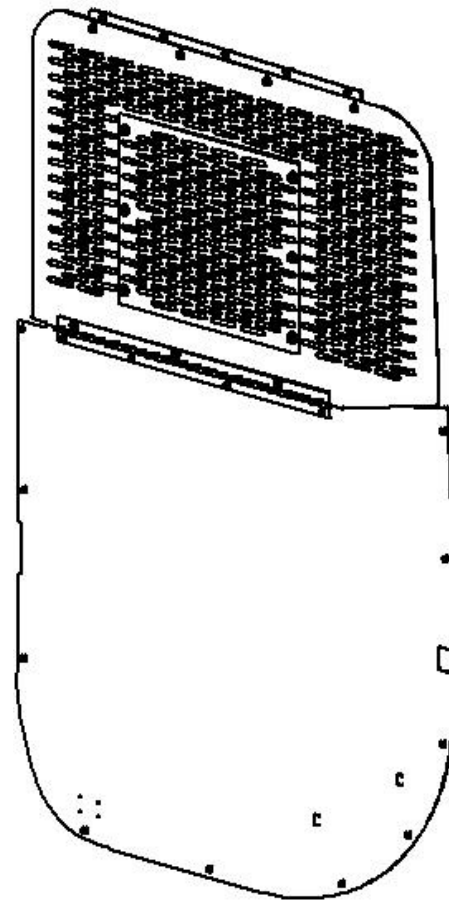
*See photos for  
 2021+ F-150  
 Alternate  
 bracket details*

**PARTS & HARDWARE cont.:**

<u>QTY</u>	<u>DESCRIPTION</u>	<u>PART #</u>
<b>C-HK-353</b>		
2	#10 x 1/2" Phillips flat head sheet metal screw	16413
8	10-32 x 1/2" Phillips flat head machine screw	16584
2	15" Wire tie	15816
8	10-32 Nylock nut	16098
4	3" Hose clamp	15821
4	#8 x 3/8" T-20 Torx Sheet meatal screw	13405
16	#8-18 X 1/4" Phillips flat head screw	16425
38	1/4" x 3/4" Phillips pan head machine screw (SS)	16618
40	1/4" Flat washer (SS)	16154
22	1/4" x 3/4" Carriage bolt (SS)	16235
22	1/4-20 serrated flange nut (silver)	16086
2	10-32 Keps nut	16017
6	#8 x 3/8" Phillips flat head screw	16426
2	#10 Star washer	16147
2	10-32 x 1/2" Machine screw	16399
10	#10 x 1/2 Phillips flat head sheet metal screw - SS	16641
28	#10 x 1/2 Phillips pan head sheet metal screw – SS	16655

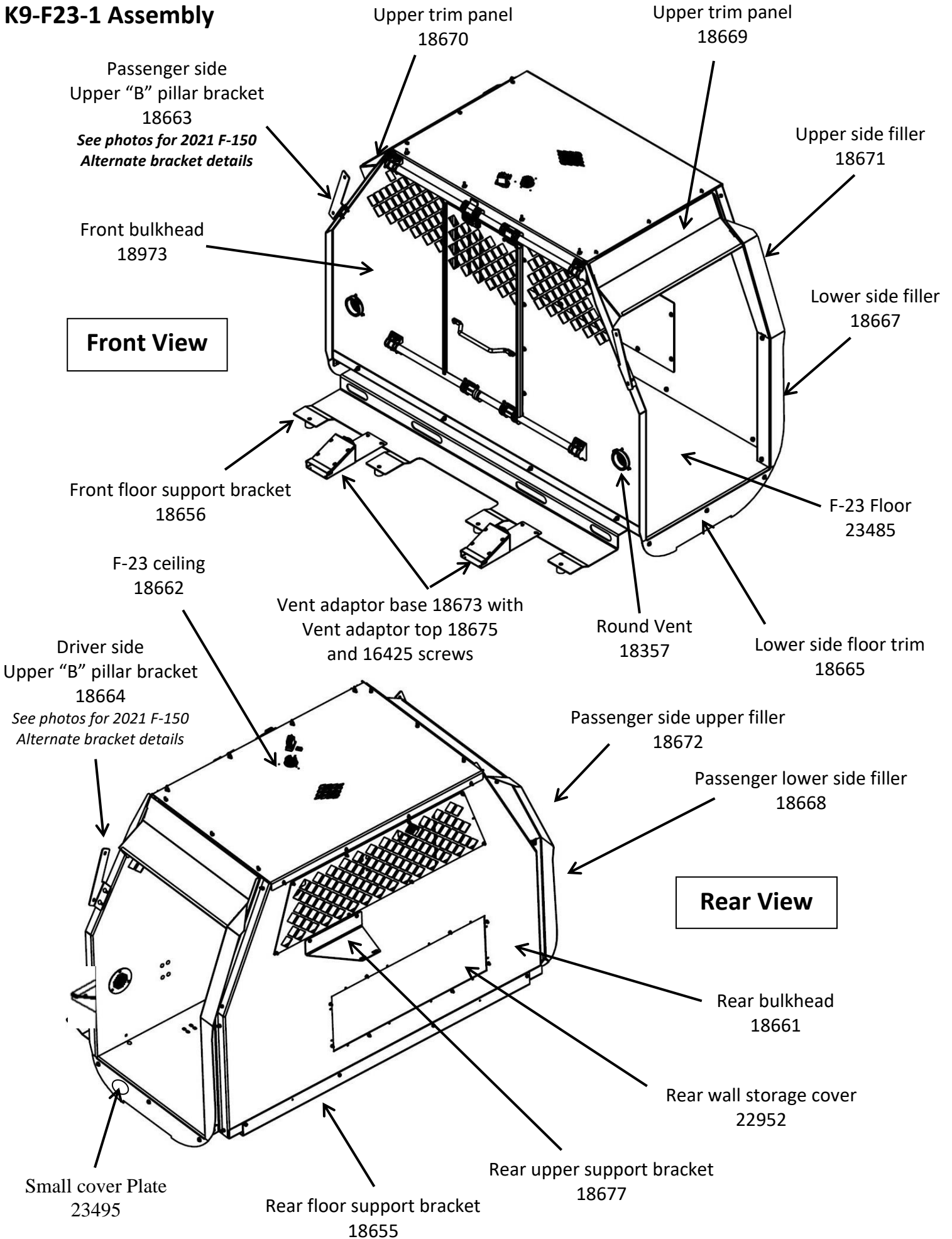


Driver Side window guard & door panel  
21238 – Window guard  
14465 – Door panel, White  
14466 – Door panel, Black



Passenger Side window guard & door panel  
21239 – Window guard  
14467 – Door panel, White  
14468 – Door panel, Black

# K9-F23-1 Assembly





Remove rear passenger door panels first.



Remove two (2) bolts behind access cover in middle of door panel. (10mm socket)



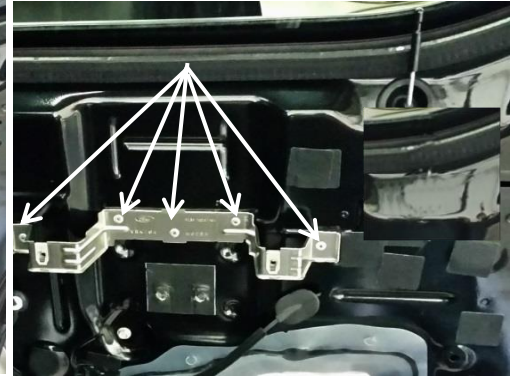
Remove two (2) screws at the bottom of the door panels (7mm socket)



Remove two (2) bolts behind access cover behind grab handle (10mm socket)



Disconnect door latch cable and lock pin. Remove speaker. (7mm socket)  
Remove window switch from door panel and set aside.



Remove factory metal bracket by drilling out five (5) rivets.

**NOTE: Make sure the window is up before drilling into the door panel.**



Optional door pop solenoid shown in a mounting location.



The window switch must remain plugged in proper operation. Taping the switch to the interior side of vapor barrier or wrapping in plastic bag is recommended to avoid problems with moisture.



Hook door panel on the weather stripping and centering it on the door. Attach panel with # 10 x 1/2" Phillips pan head sheet metal screws.



**NOTE:** Window guards are shipped flat. On the edge of a work bench, bend a contour in the middle of the guard so it will fit tight against the window frame.



Align the hinge mounting holes to holes in the door panel. Attach hinge with # 10 x 1/2" Phillips pan head sheet metal screws.



With upper mount bracket attached to window guard, mark mounting hole locations on upper door / window frame. Drill 5/32" holes and attach with # 10 x 1/2" flat head sheet metal screws.



**NOTE:** Before closing door, double check the lock and window operation several times  
Door panel shown with sensor for optional NoK9 left behind feature.



Follow the same installation process for the driver side door.

**NOTE:** Run wiring for optional K9-A-104 prior to door panel installation.



Double check the hinge down / window cleaning feature by removing the four (4) machine screws at the top.



Attach optional 10" fan and fan mount to window guard with 1/4" hardware and spacers as per the instructions provided in the **K9-A-104** kit.



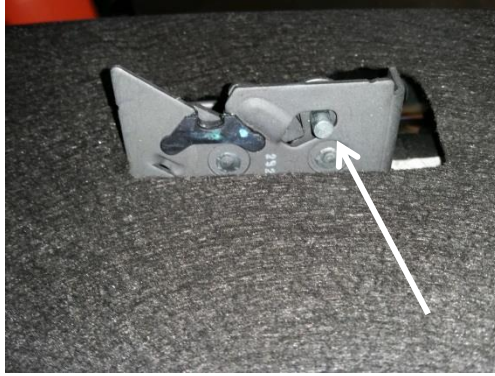
View of back seats before removal. Flip up seats and remove optional power inverter. Save hardware for remounting in the new location. Remove the rear seats and seat belts.



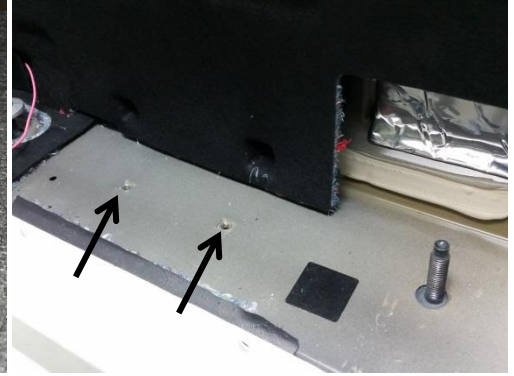
**Note:** Seat belts must be plugged back into OEM harness (to original plug location). Wire tie seat belts in out of the way location prior to K9 floor being installed.



To remove the back seat the release switch must be engaged.



Another view of the release switch



Unbolt the jack mounting bolts from the floor behind the seat.



**Note:**

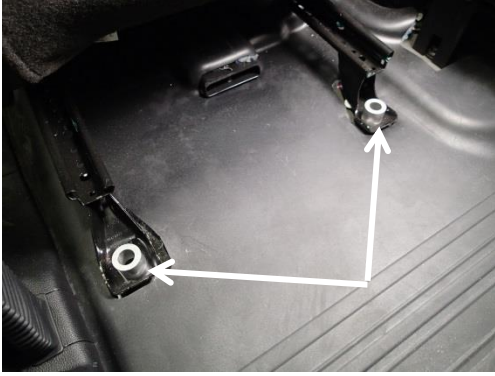
**K9-F23-1 does not fit with OEM optional inverter systems that are mounted under rear passenger seats or at rear wall.**

**If Equipped - Optional OEM inverter must be relocated as desired by installer.**

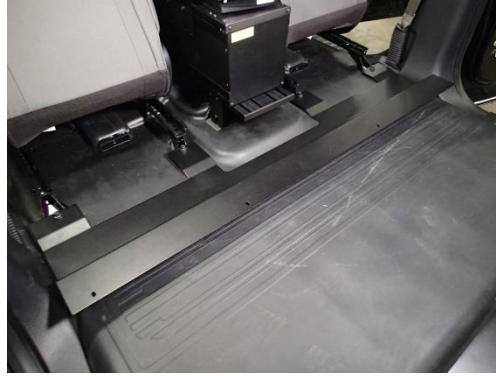
**Jack must also be relocated as desired by installer.**



Install the rear mounting bracket with the flange towards the rear. Use previously removed seat bolts.



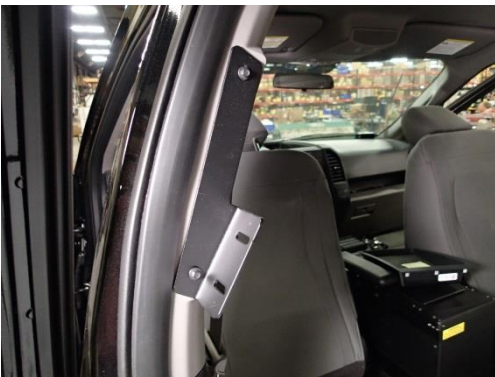
Remove the front seat rear bolts and place the provided 11441 spacers on the seat mount holes.



Install the front mounting bracket lining up to the holes for the seat bolts. Re-install previously removed seat bolts and tighten.

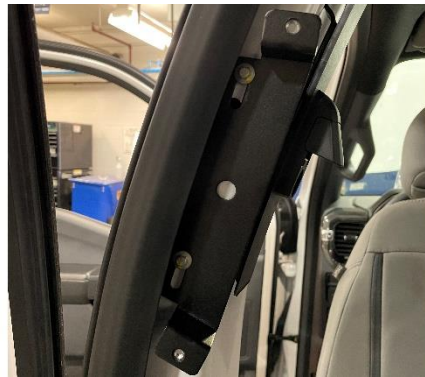


Remove the factory grab handles by gently prying off bolt covers. Remove two (2) M6 bolts (7mm socket) *Repeat process for passenger side*



Install upper mounting bracket using previously removed M6 hardware.

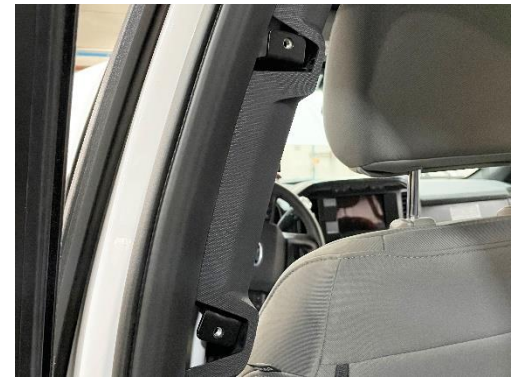
*Repeat process for passenger side*



**NOTE: 2021+ F-150.**

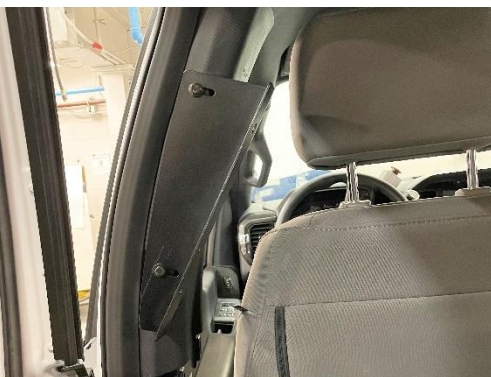
Remove the OEM "B" pillar trim and OEM handle.

Attach inner "B" pillar bracket to "B" pillar using previously removed OEM hardware.



**NOTE: 2021+ F-150.**

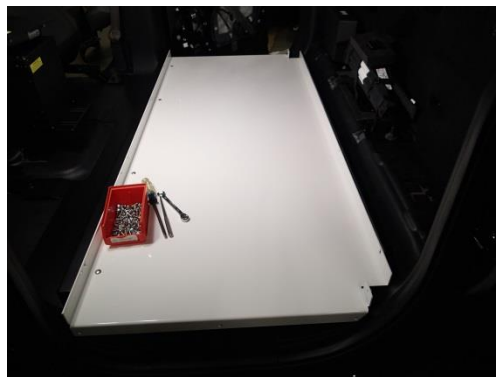
Reinstall previously removed OEM "B" pillar trim.



**NOTE: 2021+ F-150.**

Attach outer "B" pillar bracket to inner "B" pillar bracket using 1/4" x 3/4" Hex head bolts and washers.

*Repeat process for passenger side*



Attach floor to the front base mounting bracket using four (4) 1/4" x 3/4" carriage bolts and serrated nuts.

*Access to the center bolts is available through the slots in the bracket*



Attach rear wall and floor to the floor bracket using 1/4" x 3/4" Phillips pan head bolts and washers.

**(Optional PT-A-906 access door shown)**



Attach front wall to "B" pillar brackets and floor using 1/4" x 3/4" carriage bolts and serrated nuts.



Attach the ceiling to the front and rear walls with 1/4" x 3/4" carriage bolts and nuts.



Loosely attach side filler panel to rear wall with 1/4 x 3/4 Phillips pan head bolts and washers.

*Repeat process for driver's side*



Loosely attach upper side filler panel to rear wall with 1/4 x 3/4 Phillips pan head bolts and washers.

*Repeat process for driver's side*



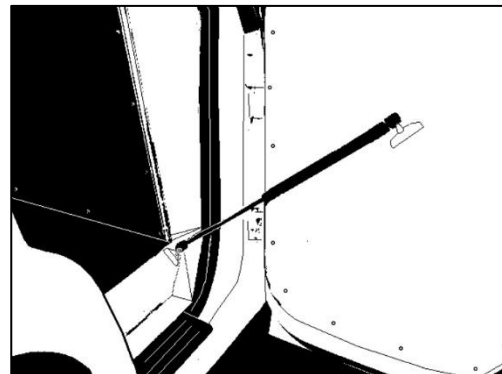
Loosely attach upper filler panel with 1/4 x 3/4 Phillips pan head bolts and washers. Install one (1) carriage bolt and nut to front wall  
*Repeat process for driver's side*



Attach round vent to front wall using three (3) #10 x 1/2" flat head screws and Keps nuts.



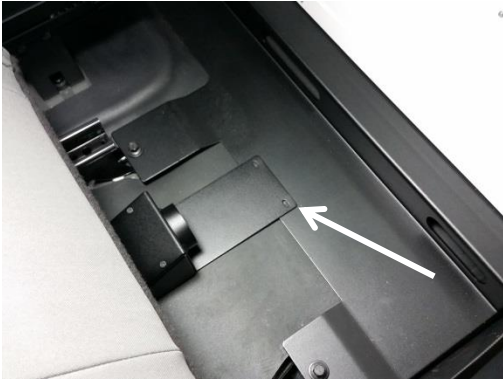
Slide vent adaptor over factory blower vent under seat.  
One each side.



If installing gas spring (shock) for Hot-N-Pop system, install at angle as per AceK9 instructions supplied with Hot-N-Pop.

Image above is an example only. Depending on application, the installer must determine a safe and effective mount location. When attaching bracket to door, make sure that screws go into door panel and OEM sheet metal for maximum strength.





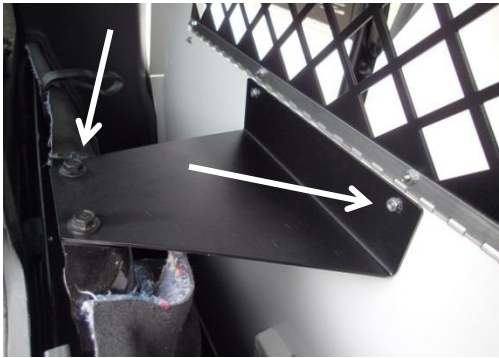
Attach adaptor to front floor bracket using two (2) CM86508 #8 x 3/8 Torx head sheet metal screws



Attach supplied vent hose to vent adaptor and round vent with supplied hose clamp. Hose needs to be cut into two (2) 3 foot pieces.



Secure the vent hose to the bottom corner of the floor bracket using supplied 15" wire tie.



Attach the upper rear support bracket to existing rear wall hinge studs and to OEM threaded holes with previously removed seatbelt hardware.



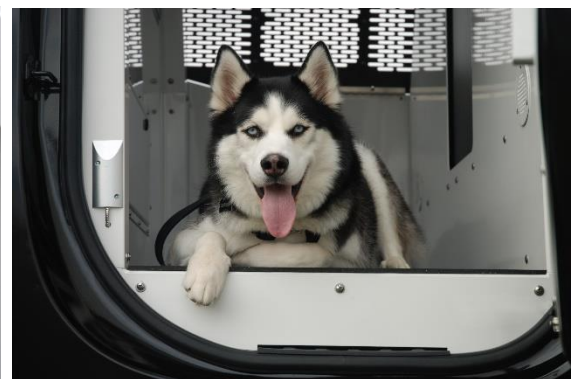
Install LED dome light as per instructions and hardware included with the dome light kit.



Silicone the lower seams to create proper water drainage.



Install rubber mat.  
*Sensor for optional NoK9 left behind feature shown.*



Installation is now complete