

A division of Troy Sheet Metal Works, Inc. 1024 South Vail Avenue, Montebello, CA 90640 www.troyproducts.com 800 700-8769

Part No: PS-20UV-SC-OS-FX

PS-20UV-SC-OS-R PS-20UV-SC-PS-FX2

Vehicle: Ford Police Interceptor

Description: Single Cell Partition Model year: 2020



#### **Tools Required**

5/32 allen key	9/16 socket	8mm socket	1.25" hole saw or drill
7/32 allen key	7/16 socket	13mm socket	Body panel removal tools
4mm allen key	5/8 socket	15mm socket	Utility knife
	3/4 socket	17mm socket	Jigsaw (optional)

Troy Products recommends reading through all installation instructions prior to installation to check for all necessary parts. To comply with manufacturer's safety ratings, all OEM self-tapping bolts must be discarded, and seats re-tightened with unused bolts.

IF A STANDALONE WEAPON MOUNT IS TO BE USED (GM-20UV-SGRF OR SIMILAR) INSTALL THE WEAPON FLOOR PLATE BEFORE BEGINNING THIS INSTALLATION. REFER TO WEAPON MOUNT INSTRUCTIONS. IF A SINGLE CELL WEAPON MOUNT IS USED, IT CAN BE INSTALLED AFTER THE SINGLE CELL.

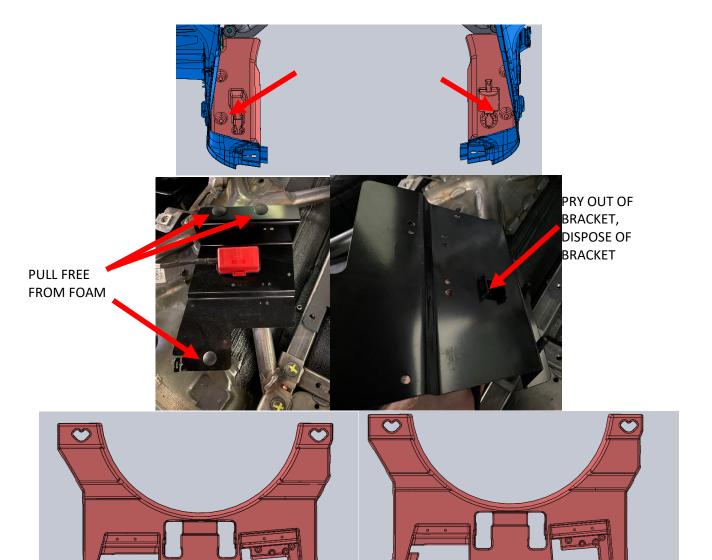
#### I.) Seat Mount

- 1.) Disconnect the vehicle's negative battery terminal.
- 2.) Remove rear cargo deck by lifting it out of the vehicle. Remove front cargo deck by removing (2) OEM bolts with T55 torx driver.





- 3.) While the vehicle is in operation, the cargo foam must be left in place per O.E.M. safety mandates. However, the foam must have small pieces cut-out and removed. Remove battery jumper bracket from foam and set aside. Remove foam before trimming. Trimming can be done with utility knife, but a jigsaw is easiest.
  - a. To remove foam, start by unscrewing two rear mounting screws with a 8mm socket and removing two foam pieces. Main foam piece will require some tugging to free it. Pull it free with second row seats in upright position.

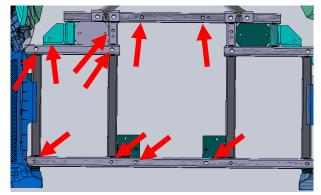


- 4.) Once foam is free, remove passenger side and center second row seats. Seatbelt assemblies must be unplugged as seats are being removed from vehicle.
  - a. Pull seat skirt forward to free it from square tube subframe. It is fixed with plastic plugs and must be pulled firmly to free it from the subframe. Bottom of seat is shown outside of vehicle. Plastic plugs sit parallel with ground in vehicle.



b. Using 13mm and 15mm socket, remove ten total mounting screws from driver and center seats.

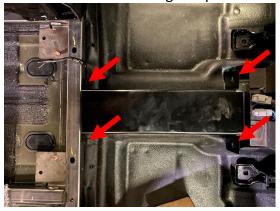
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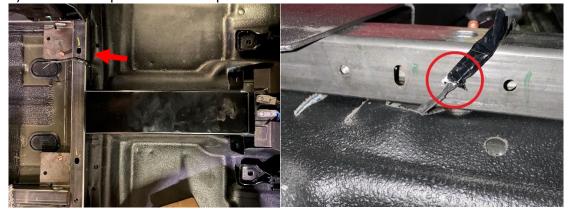
5.) Remove seatbelt assemblies from seats using a T55 driver. Plug them back into loose leads in floor and secure them to the subframe.



6.) If a wiring harness channel is present in the second row footwell, remove it with a 4mm allen wrench. There are four M6 fasteners holding it in place. Save the fasteners.



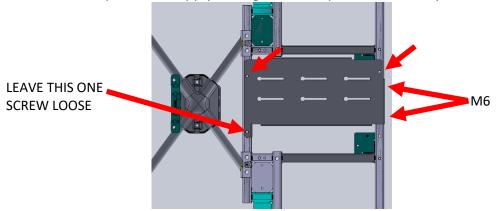
7.) Remove the plastic wire receptacle on the driver side of the subframe where shown.



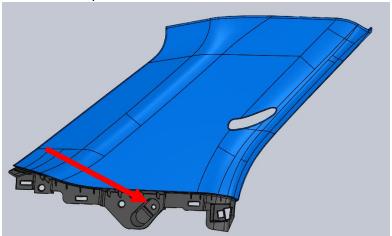
8.) Place floor in vehicle as shown. Fasten with OEM M10-1.5x90 and M10-1.5x35 screws using 13mm and 15mm sockets, torqued to spec. Leave the indicated screw loose. If standalone

weapon mount will not be used, two M6 screws from step 6 can be re-inserted where shown. If a standalone weapon mount is to be used, install part #brc here from weapon mount assembly. Weapon mount feet should already be in place at this stage. Refer to weapon mount instructions.

a. This step does not apply to single cell weapon mounts, only standalone mounts.



9.) Remove upper C-pillar trim by first prying outward on lower C-pillar trim to expose a mounting screw in the upper trim, driver side shown below. Remove this screw with an 8mm socket. Upper trim can now be pulled free of vehicle.



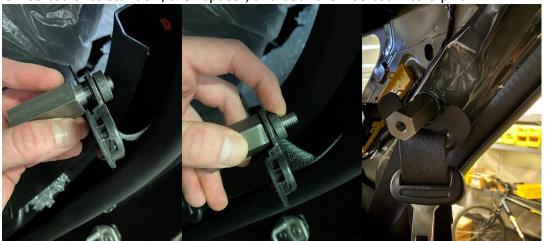
10.) Place provided template on C-pillar around seatbelt opening as shown. "PS" marking should be visible when held on passenger trim and vice versa. Only one side of template is marked. Use opposite side of template for opposite trim. Drill a small pilot hole where the template hole lands on the trim. Then, use a 1.25" hole saw to drill a 1.25" hole in the trim, using the pilot hole as a reference.



11.) Remove side-step trim from second row footwells. Pull lower C-pillar trim away from floor to expose lower seatbelt mounting point, and remove this screw using a 13mm socket.



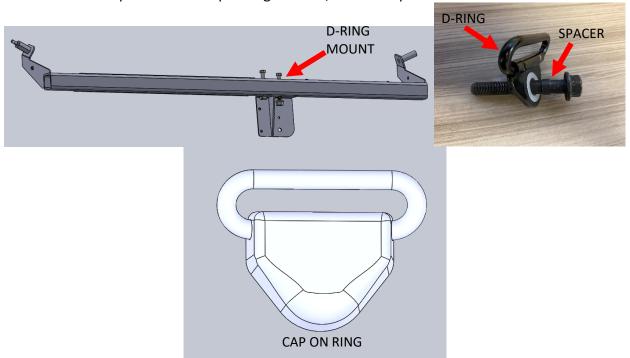
- 12.) Wrap passenger side tongue and lower mount in bubble wrap or similar and secure inside of C-pillar trim.
- 13.) Remove driver side seatbelt swivel D-ring (sits beneath upper C-pillar trim) using 13mm socket. **Note the spacer that sits inside of the D-ring; do not lose this.**
- 14.) Re-attach the D-ring to the C-pillar using the provided standoff (#hex) as shown. D-ring is inserted onto standoff, then spacer, and both are inserted into C-pillar.



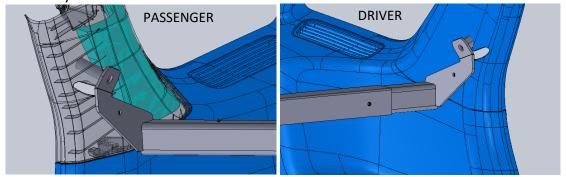
15.) Pass lower seatbelt mounting point through upper C-pillar trim and then through provided ear cover as shown.



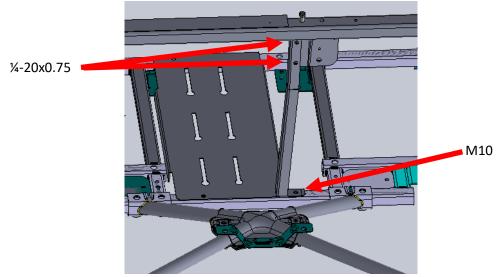
- 16.) Re-attach lower driver side seatbelt mounting point using 13mm socket and replace all trim. Hex standoff will protrude through newly drilled hole in driver side C-pillar trim.
- 17.) Replace passenger side trim.
- 18.) Mount retractor bracket and seatbelt swivel D-ring to cross tube using two provided 7/16-20x3" bolts and one 7/16-20 locking nut. The retractor D-ring will sit on top of the tube and be mounted with the passenger side screw. The ring sits toward the front of the vehicle. The second nut is welded to the bracket. Place plastic cap on top of swivel when installed.
  - a. Pay close attention to the small spacer included in the seatbelt retractor kit. That must be present on the passenger side 7/16 bolt as pictured.



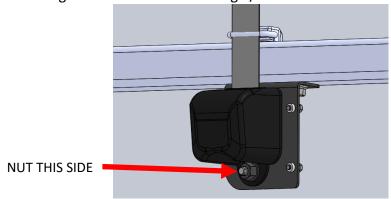
19.) Mount cross bar (#tubw) to C-pillars using provided M10-1.5x90 and 3/8-16X1.25 screws. Driver side will bolt directly to hex standoff with 3/8 screw. Passenger side will require a spacer to mount to C-pillar as shown below. Passenger side trim is shown transparent for clarity.



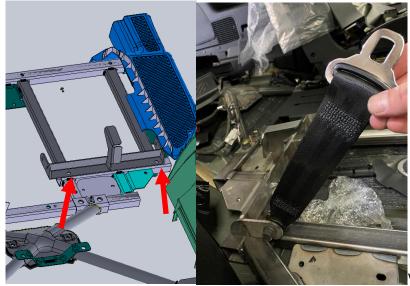
20.) Mount support leg (#legw) to retractor bracket using two ¼-20x0.75 screws and an OEM M10 screw inserted loosely in step 7, tightened with 15mm socket to OEM spec.



21.) Feed seatbelt up through swivel and orient retractor on bracket and fix it in place with a 7/16-20x1 flanged bolt with lock nut using 5/8 socket for screw and ¾ socket for nut.

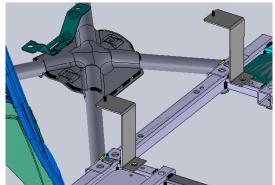


22.) Bolt under-seat assembly (#usa) to floor where shown using two OEM M10-1.5x85 screws torqued to spec. Bolt seatbelt tongue to outside flange as shown using a 7/16-20x1 flanged bolt with lock nut using 5/8 socket for screw and ¾ socket for nut.

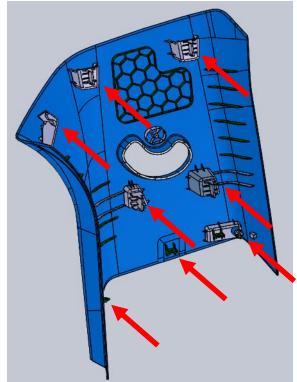


#### II.) Rear Partition

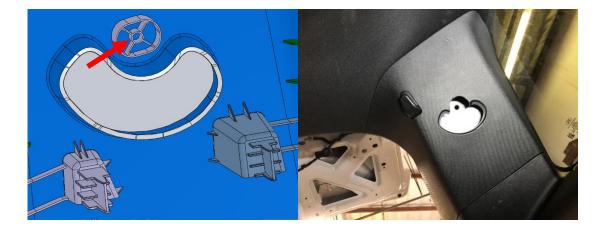
- 1.) Replace vehicle foam in cargo area.
  - a. If a cargo mount will not be isntalled, fasten rear foam with OEM M10 screws using 8mm socket. If a cargo mount will be used, leave the holes empty.
- 2.) Place the (2) front brackets on the seat frame and replace the M10-1.5x35mm bolts with a 13mm socket. Orient the PEM studs toward the rear of the vehicle. Tighten bolts to O.E.M. specifications.



3.) Pull upper D-pillar trim free by prying lower trim away from upper and pulling upper trim to free mounting points. Mounting points are indicated.



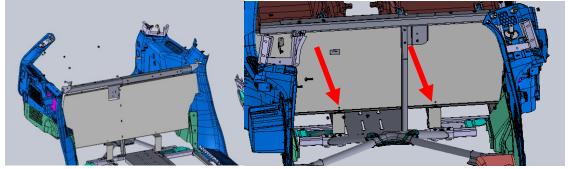
4.) Using a 1.5" hole saw, drill a clearance hole in both of the D pillar plastic covers. Align the hole saw with the trim using the standoff feature indicated. Replace trim.



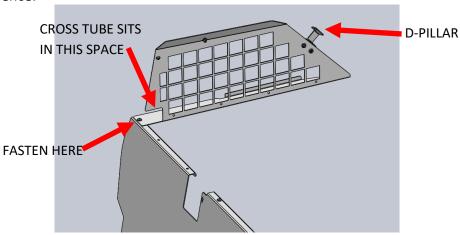
5.) Install the D pillar brackets using the (2) provided 3/8-16 self-tapping hex bolts.



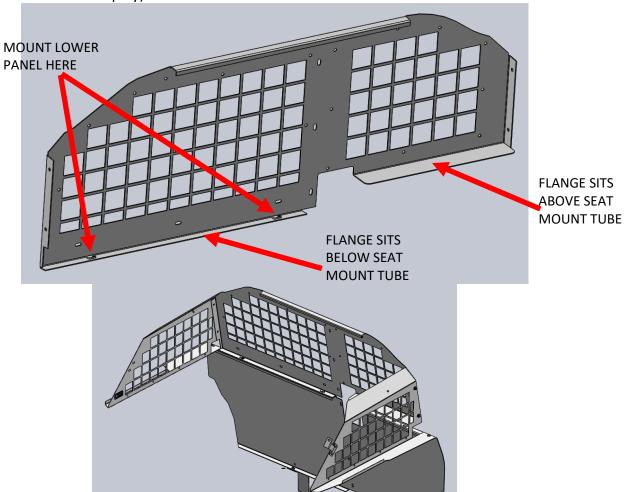
6.) Install the lower panel (large flange down and facing toward the rear) in the vehicle and attach to the (2) front bracket study using the (2) provided ¼-20 nuts. Tighten nuts securely.



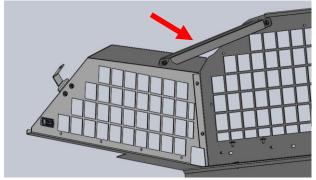
7.) Install side panels using four provided ¼-20 nylon nuts, loosely fastening panels to D-pillar brackets. Fasten side panels to lower partition panel as shown using two provided ¼-20x0.75 screws with nuts and washers. Passenger side is shown below without seat mount for reference.



- 8.) Install the upper panel on top of the lower panel. Fasten the two panels together using (2) provided %-20 x 0.75" bolts and washers. Mount side panels to top panel using four provided %-20 x 0.75" bolts, washers and nuts.
  - a. If using part # AC-20-UV-CGP2, install these now on the upper panel. If installing with the poly rear partition(TP-20-PL-UV20), place the AC-UV20-CGP2 gap panels between the frame and poly)



9.) Install the corner braces between the top of the rear window panel and the side panel using two provided ¼-20x0.75 bolts, washers and nuts. Driver side shown below.



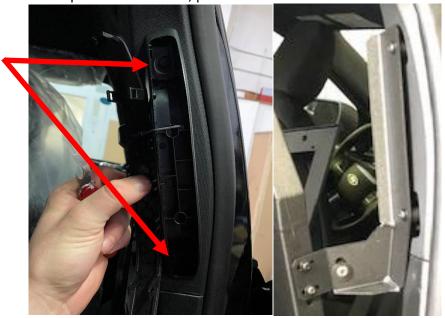
10.) Securely tighten all fasteners

#### III.) Single Cell Installation

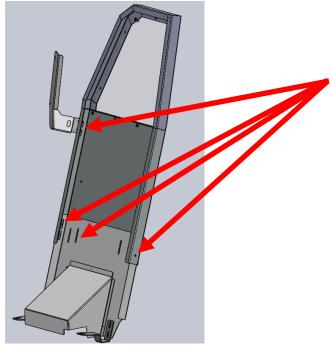
1.) Remove rear mounting bolts from front passenger seat. Loosen the front bolts to allow the seat to tilt forward. Install the outer and inner foot brackets (#fb1, #fb2) under the seat rails and re-insert the seat bolts, leaving them a bit loose.



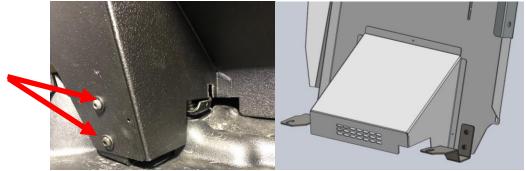
2.) Remove the plastic cover from the B-pillar handle and remove M6 fasteners using an 8mm socket. Install B-pillar handle bracket (#bp) using bracket spacers (#spc) and two M6-1x40 button head socket caps with ¼ washers, provided.



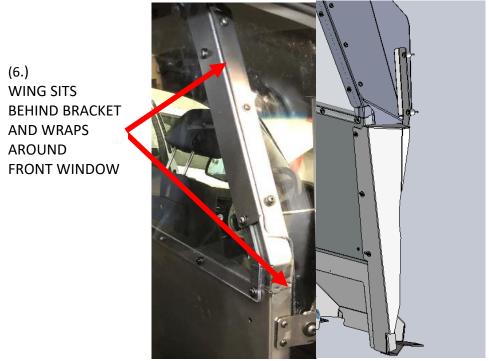
3.) Slide partition weldment (#pw) over kick panel (#kpw) as shown below. Slide kick panel all the way into partition to more easily fit these parts through rear passenger door. Insert both parts into vehicle. Using eight ¼-20x0.75 screws with washers and nylon nuts, included, mount partition weldment to b-pillar bracket and kick panel. Leave these screws loose for now.



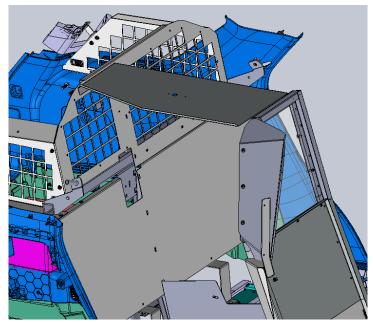
4.) Mount the kick panel weldment (#kpw) to the foot brackets as shown using four ¼-20x0.75 screws and four washers, provided. The foot brackets contain nuts.



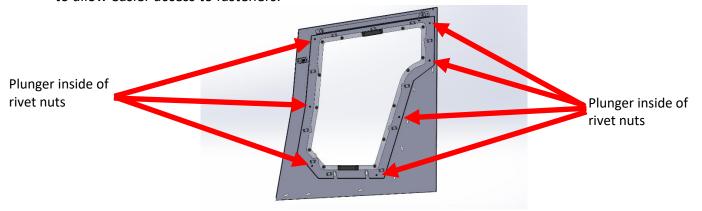
5.) Add the polycarbonate upper wing (#uwkp) behind the B-pillar bracket and over the front partition, using two more  $\frac{1}{2}-20x0.75$  screws with nylon nuts and washers to fasten the wing to the partition, also using a  $\frac{3}{8}-16x1.25$  screw with flange nut and washer, provided. Fasten the lower wing with three  $\frac{1}{2}-20x0.75$  screws with nylon nuts and washers.



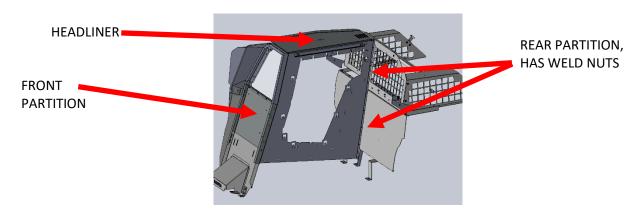
6.) Attach headliner panel to front partition weldment and rear partition upper panel using four ¼-20x0.75 screws with nylon nuts and washers, provided. Headliner is compatible with Federal Signal MPS300U-W and Sound Off mPower Fascia 4" lights, sold separately.



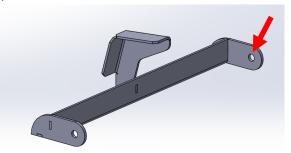
7.) Removable door panel contains rivet nuts with spring plungers inside of them. Loosen spring plungers 1 turn. Detach door panel (#rfa) from side panel weldment (#spw) by using two quarter turn fasteners to remove retaining flange (#I). Door ships attached but will be removed to allow easier access to fasteners.

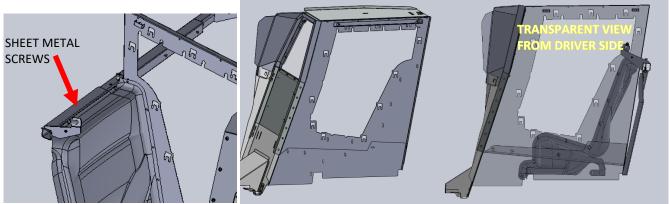


8.) Use nineteen ¼-20x0.75 screws with thirteen nylon nuts and washers to install the side panel weldment (#spw) as shown. Side panel will bolt to the rear partition, front partition, and headliner panel. The screws mounting to the rear partition will fasten to weld nuts in the upper and lower panels. Leave screws loose for now. Do not install lowest rear screw, as shown.

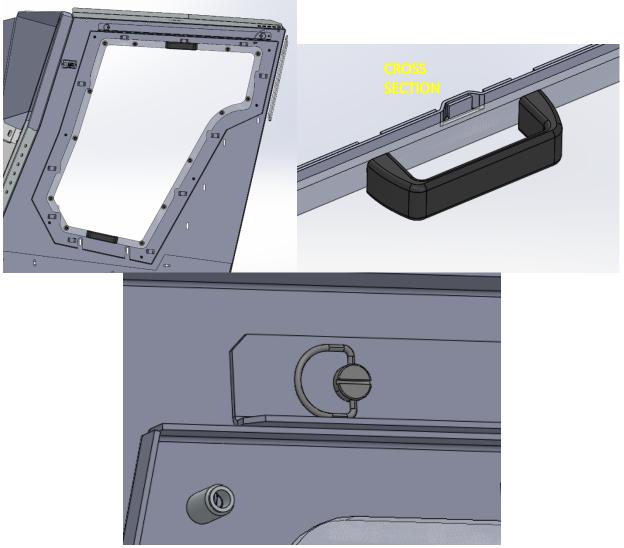


- 9.) Place seat in vehicle and slide free end of retractor belt through passenger-side hole in seat. Tilt the seat forward to gain access to mounting holes under seat. Bolt seatbelt tongue to inside flange of under-seat assembly as shown using a 7/16-20x1 flanged bolt with lock nut using 5/8 socket for screw and ¾ socket for nut. Tie a few zipties or similar to the hip-side tongue installed in step 22 of Part I so that it can be easily pulled through the underside of the plastic seat and up through the top. Tilt the seat back into place with zipties protruding through top of plastic seat.
- 10.) Install seat with lower side panel (#spl) using fifteen ¼-20x0.75 screws with nylon nuts and washers, provided. Ensure seatbelt tongue attached in step 22 of Part I protrudes through driver side (outboard side) of plastic seat. Slide top rear flange of seat between upper and lower halves of rear partition and use two sheet metal screws to secure plastic seat to cross bar of seat mount.

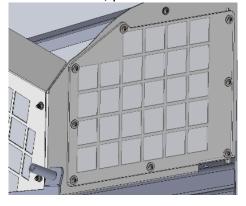




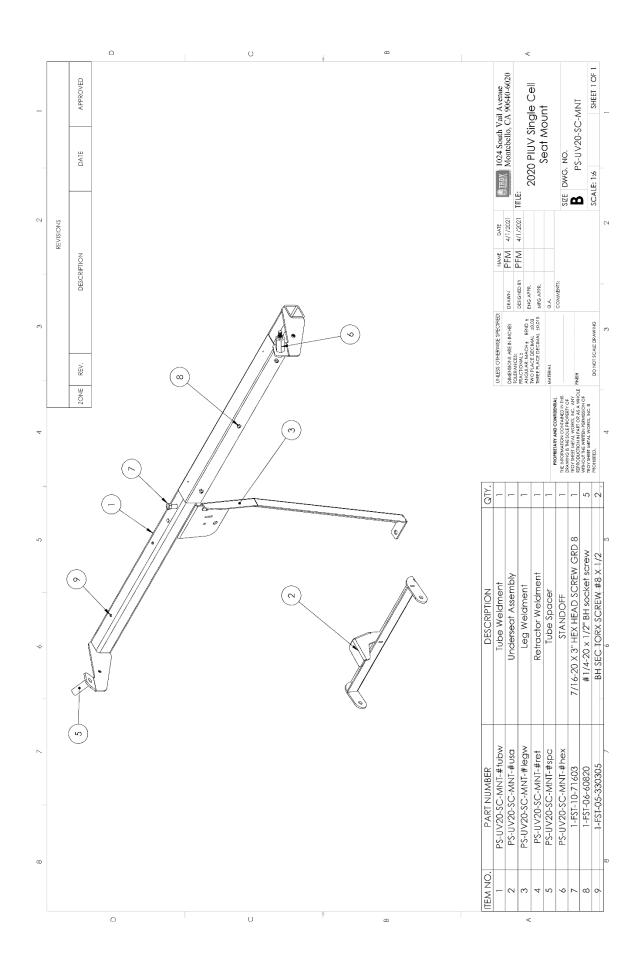
- 11.) Mount removable frame (#rfa) using tab and slot system, inserting slots onto top of tabs and sliding downwards. Removable frame will be re-fixed using retaining flange (#l).
  - a. After reattaching the removable frame (#fra) retighten the plungers in the rivet nuts.

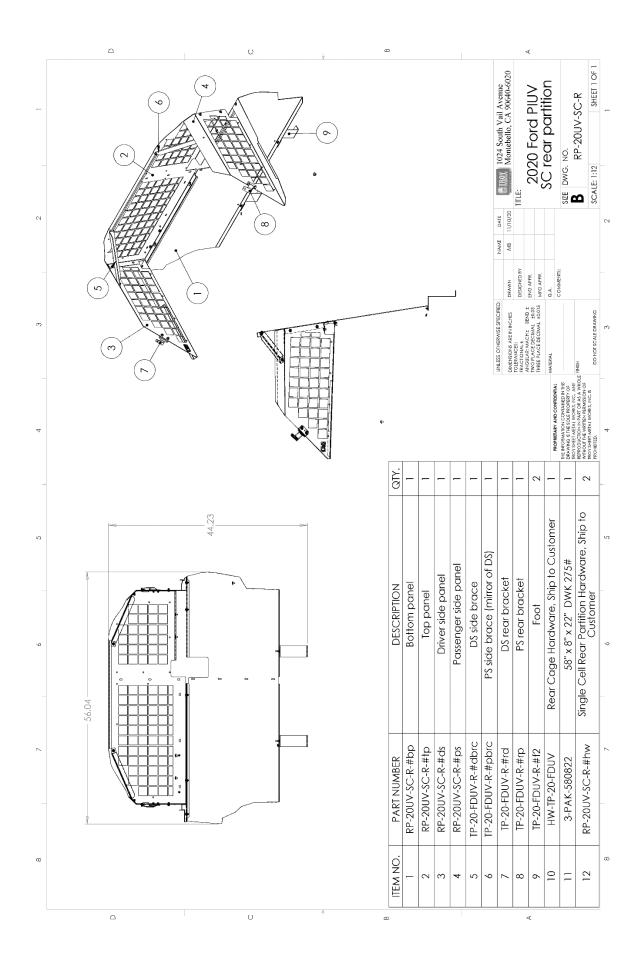


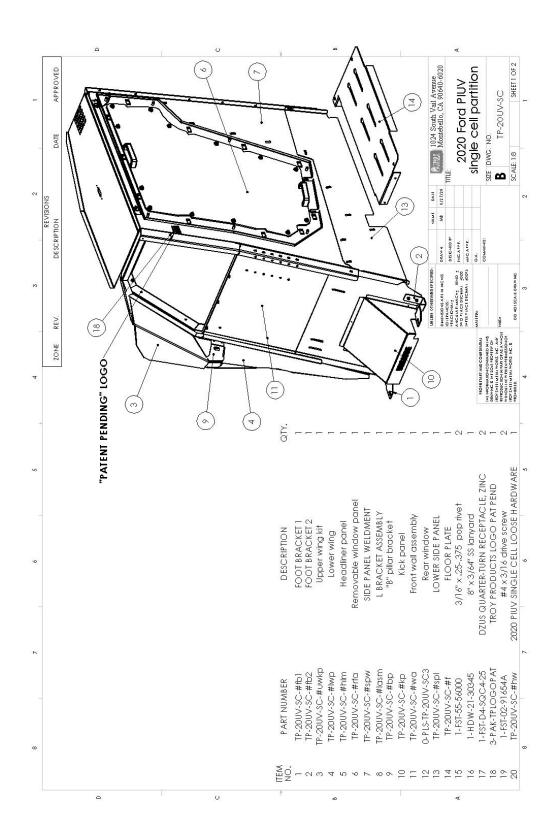
12.) Mount rear window (SC3) to front side (occupant side) of rear partition using eight ¼-20x0.75 screws with nylon nuts and washers, provided.



Your installation is now complete. If you have any questions or suggestions for adding additional instructions, please call **Customer Service at (800) 700-8769.** 







## **BILL OF MATERIALS**

## A. PS-20UV-SC-MNT

Part #	Description	Qty.	Picture
PS-UV20-SC-MNT-#tuba	Seat tube assembly with retractor	1	
PS-UV20-SC-MNT-#usa	Underseat assembly	1	
PS-UV20-SC-MNT-#legw	Leg weldment	1	
PS-UV20-SC-MNT-#ret	Retractor bracket	1	
PS-UV20-SC-MNT-#spc	Spacer	1	
PS-UV20-SC-MNT-#hex	Hex standoff	1	

## **B. RP-20UV-SC-MNT**

Part #	Description	Qty.	Picture
RP-20UV-SC-R-#bp	Bottom panel	1	
RP-20UV-SC-R-#tp	Top panel	1	
RP-20UV-SC-R-#ds	Driver side panel	1	
RP-20UV-SC-R-#ps	Passenger side panel	1	
RP-20UV-SC-R-#dbrc	Driver side brace	1	

RP-20UV-SC-R-#pbrc	Passenger side brace	1	
TP-20-FDUV-R-#rd	Rear driver bracket	1	
TP-20-FDUV-R-#rp	Rear passenger bracket	1	
TP-20-FDUV-R-#f2	Foot bracket	2	

## C. TP-20UV-SC

Part #	Description	Qty.	Picture
TP-20UV-SC-#fb1	Foot bracket, outer	1	
TP-20UV-SC-#fb2	Foot bracket, inner	1	
TP-20UV-SC-#uwkp	Upper wing kit	1	
TP-20UV-SC-#lwp	Lower wing panel	1	
TP-20UV-SC-#rfa	Removable window panel	1	
TP-20UV-SC-#spw	Side panel weldment	1	

TP-20UV-SC-#bp	B pillar bracket	2	
TP-20UV-SC-#spl	Lower side panel	1	
TP-20UV-SC-#kp	Kick panel	1	
TP-20UV-SC-#wa	Front wall assembly	1	
TP-20UV-SC-#I	L bracket	1	
SAB-20-FDUV-BB-#spc	B Pillar Spacer	1	

0-PLS-TP-20UV-SC3	Rear window	1	
			o
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**Optional Headliner Panel** 

optional ricadimer i anci			
TP-20UV-SC-#hlm	Headliner panel	1	
1	1		

### D. Hardware

D. Haluwale			
1-FST-06-60820	1/4-20x0.5 BHCS	6	
1-FST-06-60825	¼-20X0.75 BHCS	63	
1-FST-35-31000	1/4-20 NYLON LOCK NUT	59	
1-FST-M6140	M6-1X40 BUTTON HEAD SCREW	4	

1-FST-06-61215	3/8-16X1.25 BHCS	1	
1-FST-03-38161	3/8-16X1.25 BHCS	1	
1-FST-41-61200	3/8-16 FLANGE NUT	2	
1-FST-50-60800	1/4 BLACK WASHER	37	
1-FST-50-11208	3/8 Flat black washer	2	

# **PTS Bill of Materials**

Update 02/16/22 - JF

Part No	Description	Qty	Picture	Initial			
	IN HOUSE BULK KIT						
	SHIPPED BU	JLK LOC	DSE				
P313	90/90 DUAL SENSITIVE RETRACTOR	1					
PY01H2	– IN HOUSE ASSEMBLY HARD	WARE I	BAG – 1 BAG, 2 SEALED CEL	LS			
	CELI	L 1					
P160	7/16-20 FLANGED HEX LOCK NUT	1					
P216	7/16-20 X 1" FLANGED HEX HEAD CAP SCREW BLACK	1					
	CELI	L 2					
P116	SWIVEL SPACER	1	0				
P160	7/16-20 FLANGED HEX LOCK NUT	2					
P209	7/16-20 X 3" FLANGED HEX HEAD CAP SCREW BLACK	2					

P314	SEAT BELT SWIVEL	1						
PY0	PY01KIT – CUSTOMER KIT BOX – NOT TO BE OPENED							
	PY01H - HARI	OWARE	BAG					
P053	#10 X 1" PAN HEAD SQUARE DRIVE SELF DRILLING SHEET METAL SCREW	7						
P057	#6 X 5/8" PAN HEAD PHILLIPS DRIVE SHEET METAL SCREW BLACK	8	<b>&lt;</b>					
P071	1/4-20 X ½" BUTTON HEAD CAP SCREW, BLACK ZINC, GR5	5						
P084	3/8-16 X 1" BUTTON HEAD CAP SCREW, BLACK ZINC, GR5	1						
P103	3/8" WASHER, BLACK ZINC	1						

P110	.42" ID STANDOFF 2.5" LONG	1			
P134	STANDOFF	1			
P160	7/16-20 FLANGED HEX LOCK NUT	1			
P209	7/16-20 X 3" FLANGED HEX HEAD CAP SCREW BLACK	1			
P211	M10-1.5 X 90MM HEX HEAD CAP SCREW BLACK	2			
P216	7/16-20 X 1" FLANGED HEX HEAD CAP SCREW BLACK	1			
PY01SB – SEAT BELT BAG					

P002	BUCKLE RED WITH BLACK RING	1			
P003	STORAGE TONGUE	1			
PT81	HIP SIDE TONGUE	1			
PY01T – TRIM BAG					
P004	TOOTHED C-RETAINER	2			
P451	SEAT TRIM SEAL 34 3/4" PIECE	1			
PY60DT	DRILL TEMPLATE C-PILLAR	1	DS		
LOOSE IN KIT BOX					

PY31-5D	WING COVER DS	1				
PY31-5P	WING COVER PS	1				
PTSINSTALLA TIONSTICKER	PTS INSTALLATION STICKERS  NOTE: ADHERED TO SHORT SIDE OF KIT BOX	1	FOR INSTALLATION INSTRUCTIONS AND PARTS LIST  SCAN HERE TO did the sid  DRIPLY CAMP general in experiment con the cambrid.			
BIG BOX/PALLET						
PY31	SINGLE SEAT OS BELT	1				