



TROY PRODUCTS

INSTALLATION INSTRUCTIONS

Oct. 29, 2020

Revision 1

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

Part No: PS-20-UV-OS-R
Description: Rear partition with PTS OS-Belt System
& Transport Seat

Vehicle: Ford P.I. UV
Model year: 2020



I.) Remove O.E.M. cargo cover:

- 1.) Remove rear cargo deck.

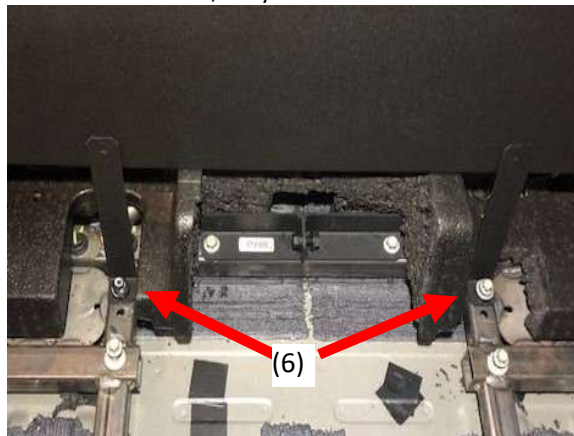
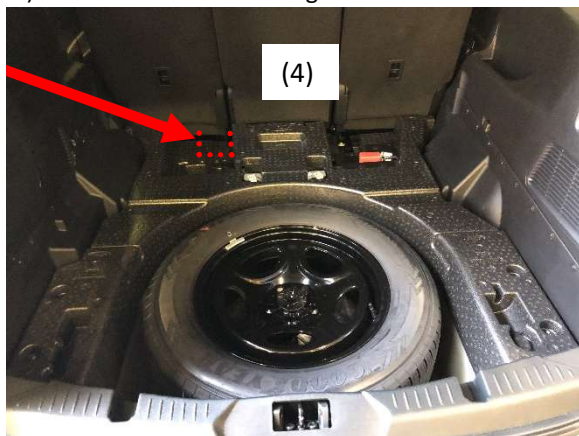


- 2.) Remove (2) O.E.M. bolts.
3.) Remove front section of cargo deck.

II.) Install front panels:

- 4.) The cargo foam must be left in place per O.E.M. safety mandates. However, the cargo area foam must have a small piece cut-out and removed.
5.) Remove rear seats using a 13mm socket for all bolts. Do not discard these, they will be used later.

(Cut-out)
(3" x 4")



- 6.) Place the (2) front brackets on the seat frame and replace the bolts. Orient the PEM studs to face the rear of the vehicle. Tighten bolts to O.E.M. specifications.

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



- 8.) Install the upper panel on top of the lower panel. Fasten the two panels together using (3) provided ¼-20 x 5/8" bolts, washers and nuts. Do not tighten at this time.

III.) Install D pillar brackets:

- 9.) Using a 1.5" hole saw, drill a clearance hole in both of the D pillar plastic covers. Align the hole saw with the center of the bushing located behind D pillar cover.

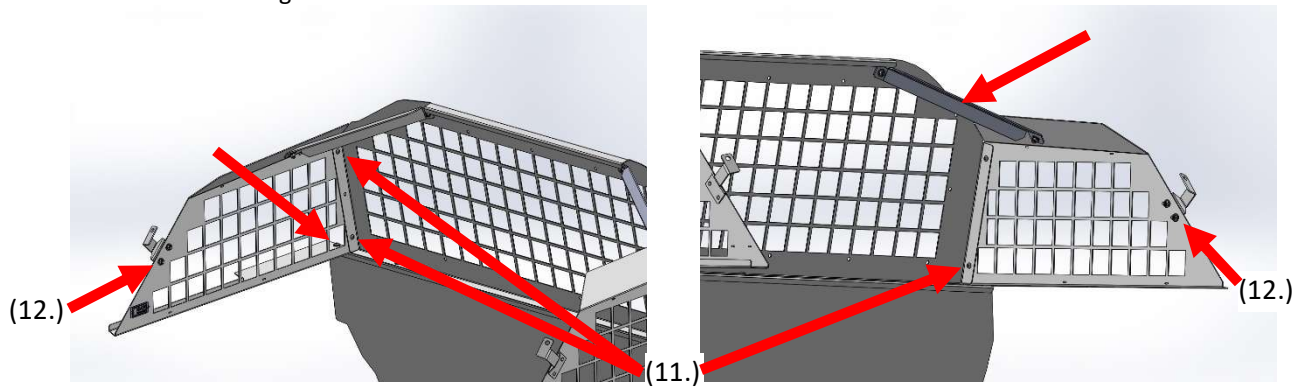


- 10.) Install the D pillar brackets using the (2) provided 3/8-16 self-tapping hex bolts.



(13.)

- 11.) Install the side panels and attach to the upper front panel using (3) provided ¼-20 x 5/8" bolts, washers and nuts. Do not tighten at this time.



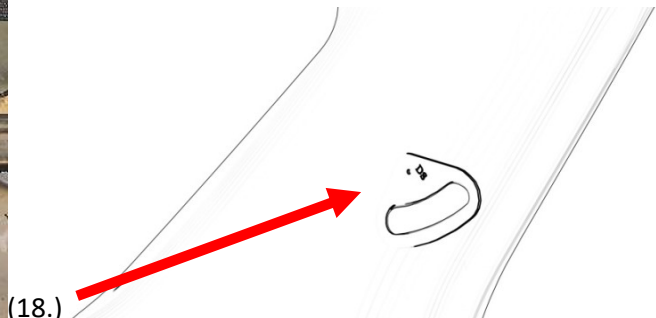
- 12.) Locate side panels onto studs of D pillar brackets and fasten using (2) provided ¼-20 nuts for each side.
13.) Install the corner braces between the top of the rear window panel and the side panel using provided ¼-20 bolts, washers and nuts.
14.) Securely tighten all fasteners.

IV.) Removal of O.E.M. Belt System

- 15.) Disconnect negative side of battery terminal
16.) Disconnect wiring connections from seats and seat belts. Reconnect each of the belts into its respective harness. Place buckles in provided bag and cable tie shut. Secure to frame to prevent rattling.

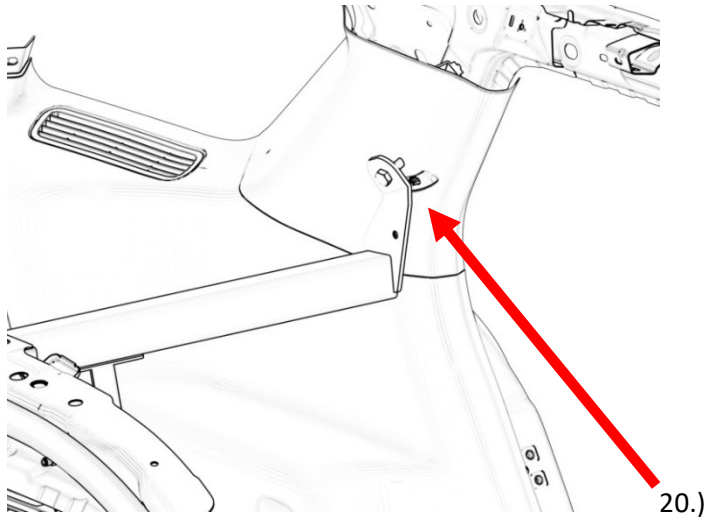
V.) Preparation of C-Pillar for top bar installation

- 17.) Place the included template around the factory seatbelt opening. Place the template so that the "DS" is facing outwards on the driver side and inwards on the passenger side. Mark the pilot holes on each side and drill using a 1-1/4" hole saw.
18.) Place entire factory seatbelt inside the C-pillar trim. Secure to prevent rattling.

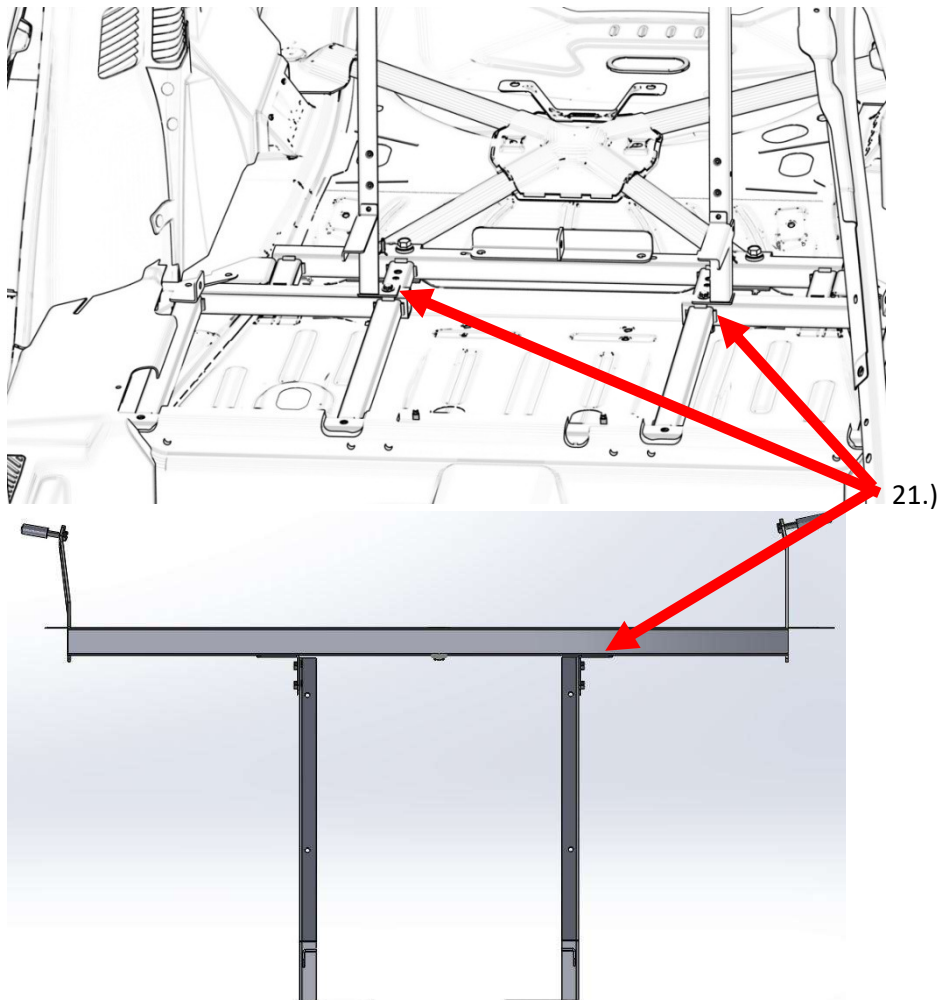


VI.) Installation of top bar and seatbelt brackets

- 19.) Hold the top bar up to the cutouts in the C-pillar trim. With the tapped holes facing the rear of the vehicle. Use the provided (2) M10 X 90mm bolts and (2) 2.5" Spacers to install the top bar to the C-pillar frame. The 2.5" spacer will be placed between the top bar and the C-pillar frame, feeding through the hole that was drilled in the c-pillar trim. Do not fully tighten at this time

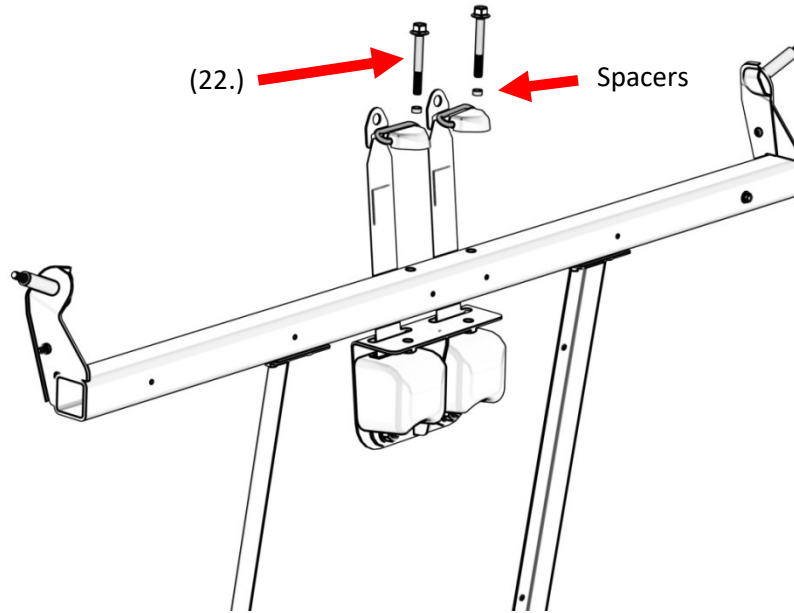


- 20.) Install the legs (PS-UV20-MNT-#lgd and lgp) to the floor/square tubing utilizing (2) stock rear seat bolts and to the top bar using the provided (4) 3/8-16 x 1" Hex Bolt, (4) 3/8" Flat Washers, and 3/8-16 Hex Nuts . Once the legs have been installed to the top bar, make sure to tighten all bolts to proper specification.



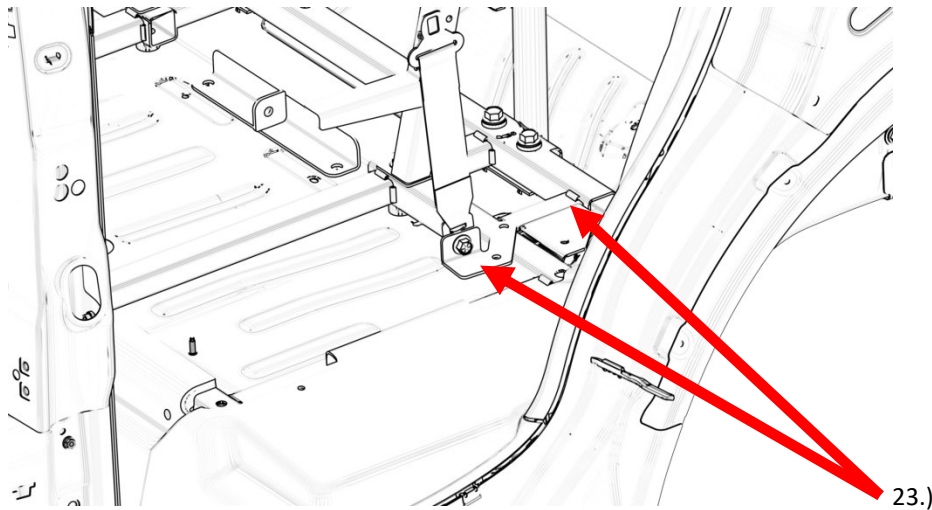
VII.) Attach P86(retractor assembly) to top bar

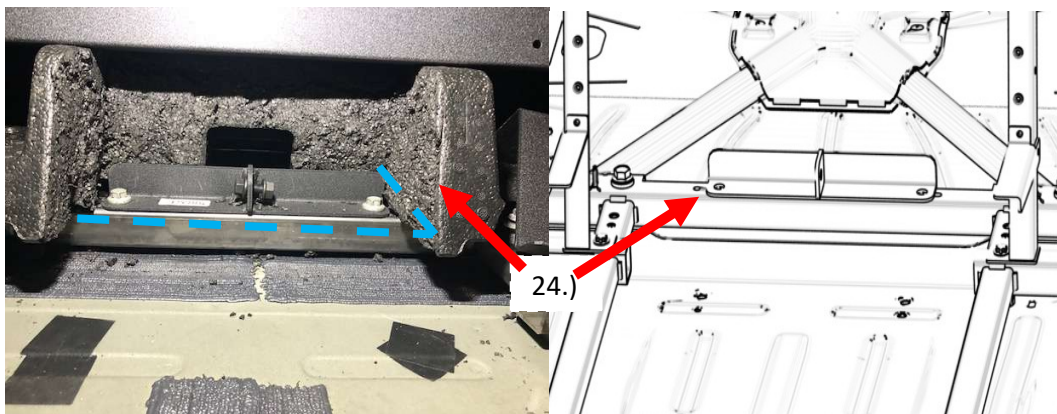
- 21.) Mount the retractor assembly utilizing the (2) 7/16-20 X 3" flanged hex head bolts, (2) swivel spacers by passing the bolt from the top through the spacer and through the seat belt swivel. Threading it into the retractor assembly. (see diagram below)



VIII.) Install Hip Side Tongue and Mounting Brackets

- 23.) Mount driver side bracket to vehicle floor/square tubing. Attach hip side tongue to bracket with 7/16-20 bolt and nut. Repeat process on passenger side. Tighten to specification.
- 24.) To install the anchor bracket you will need to first trim the factory foam an opening of 12-1/4" wide and 5.5" deep. Then install the bracket utilizing two factory bolts. Install in the center bracket a 7/16-20 X 1" (P216) flanged bolt and 7/16" (P160) flanged lock nut. (Do not tighten this bolt at this time)

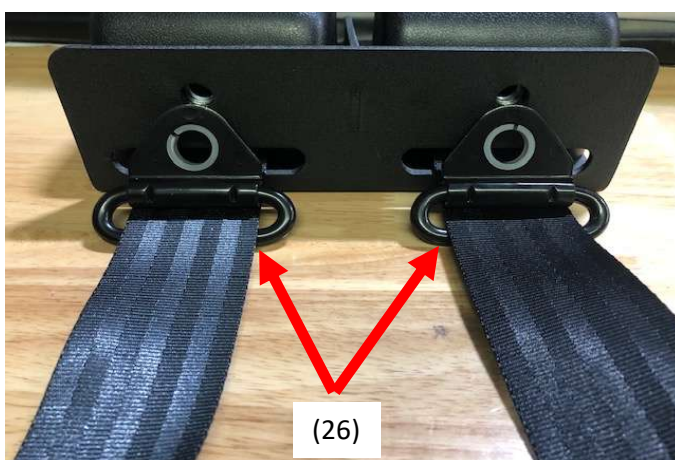




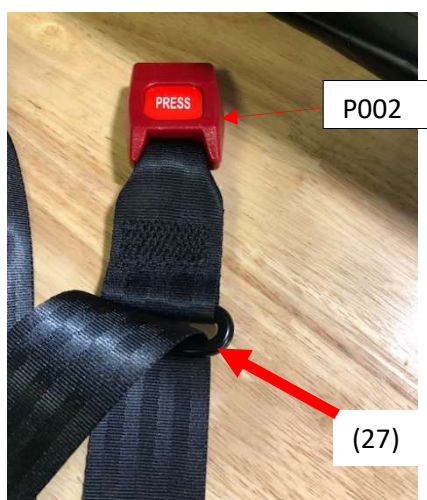
IX.) Install the Prisoner Transport Seat

25.) Place the Ford PI SUV Seat (PY41) into the vehicle and position seat flange onto the main top tube of the frame.

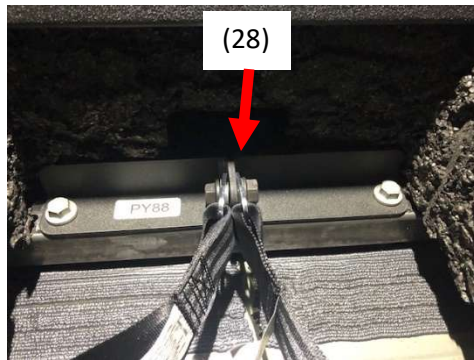
26.) Slide the retractor webbing through the webbing swivels.



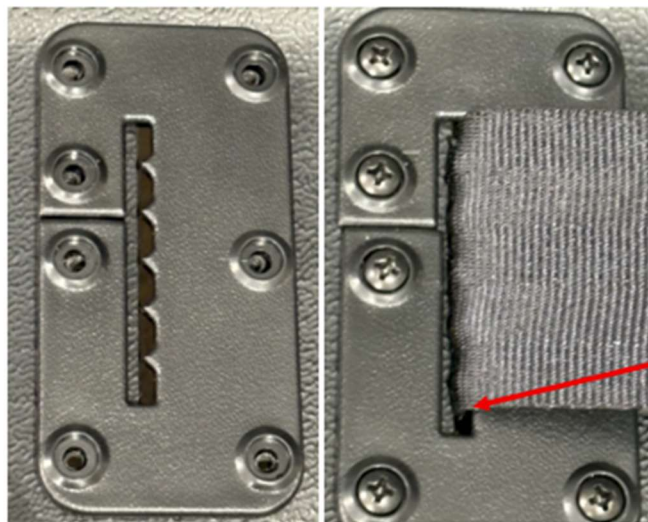
27.) Attach sliding buckle (P002) to each seat belt



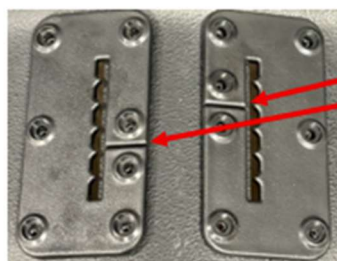
- 28.) Run seat belts through center slots of seat and attach to anchor bracket using the 7/16 flanged bolt and flanged locknut and tighten.



- 29.) Install (2) belt slot covers around the retractor webbing using the built-in cutout in the belt slot cover. Ensure belt installation cutouts in the seat belt slot covers the opening on the seat and towards the center of the vehicle. Using the (14) #6 X 5/8 pan head screws, secure the belt slot covers to the seat.

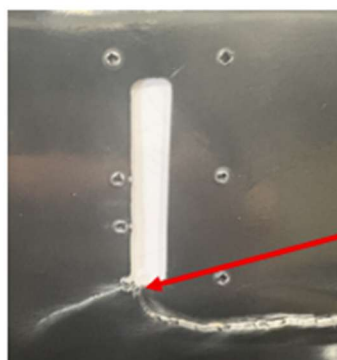


The teeth on the retainer should align with the inside edge of the slot on the seat. This alignment must be parallel and clamps the seatbelt into the plastic seat securely. This allows the holes to be equally spaced away from the slot eliminating stress risers.



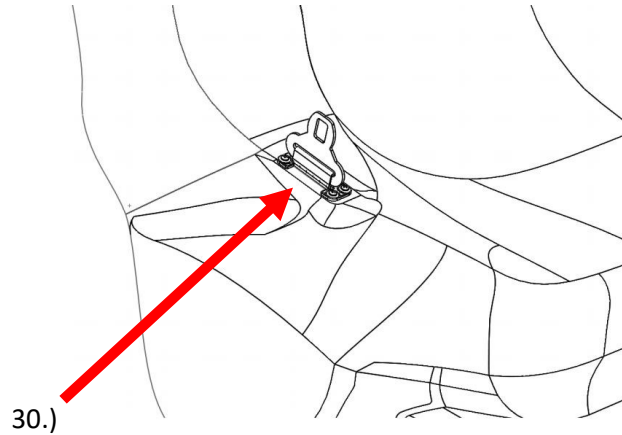
Seat belt retainers must be installed with the slotted ends facing the center of the vehicle.

***NOTE:** Seat belt retainers must be installed this way to properly clamp the seatbelt and eliminate stress risers around the screws and seatbelt slots.



Stress is concentrated at the holes drilled too close to the slotted hole on the plastic

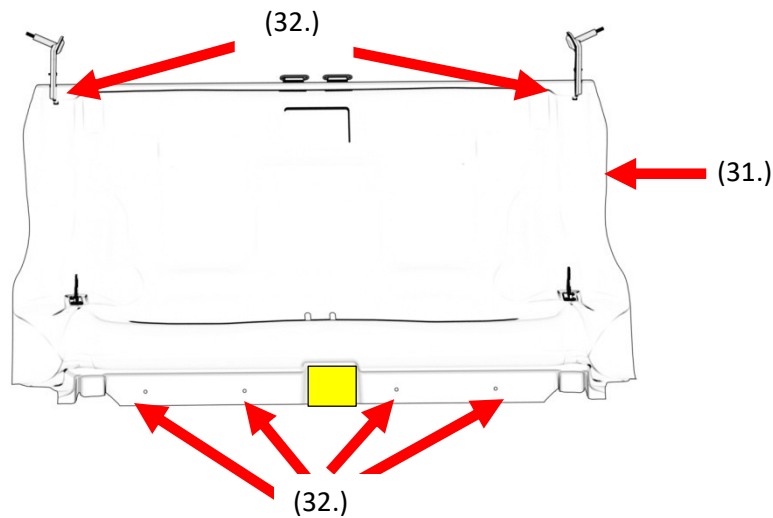
- 30.) Slide hip side tongues through the slots in the seat. Place one toothed C-Retainer (P004) on webbing of outboard seatbelt and outboard slot so that it pinches webbing and closes the gap around webbing. Secure this to the seat using (4) #6 X 5/8 pan head screws. Repeat on other side.



- 31.) Install Seat Trim Seal on edges of seat

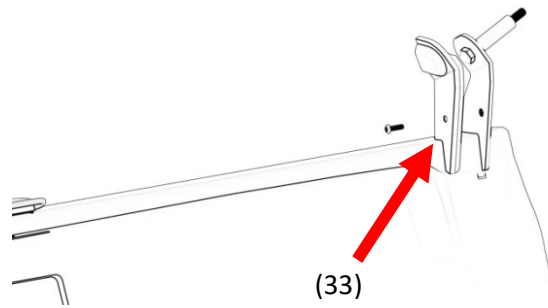
32.) If installing the PTS seat with a Harness Cover (Troy Part # AC-UV20-HC) or other, you will need to trim the seat to allow the cover to pass through. There is a square shape (highlighted in picture below) that will be your guide to trim this section out.

- 33.) Secure seat with (6) #14 X 1.5" Self-Drilling hex head screws in the locations shown below.



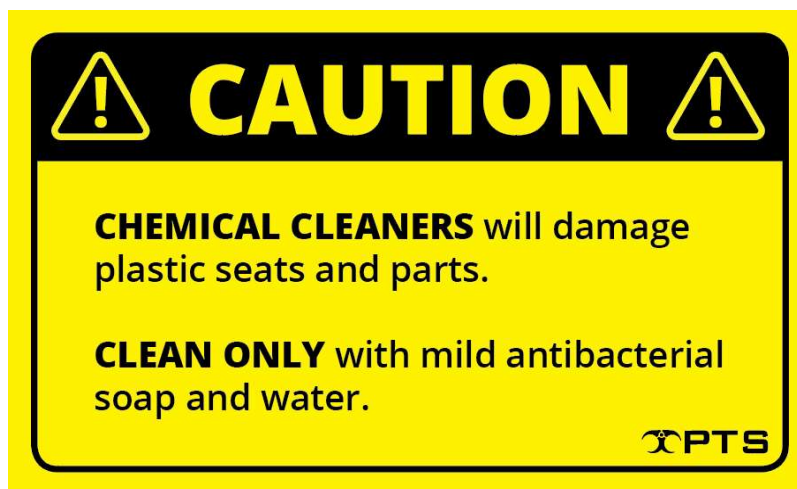
X.) Install wing covers

34.) Bolt wing covers (PY91-5D, 5P) using the ¼-20 X ¾ button head bolts to the top bar.



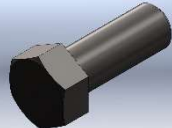
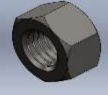
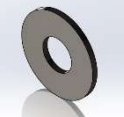
XI.) Install Storage Tongues

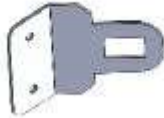
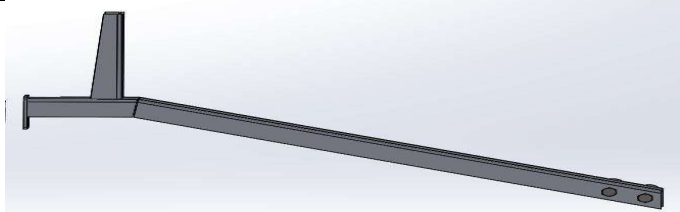
- 35.) Using (4) 10-32 Button Head Screws, (4) 10-32 Nylon Locking Nuts, and (2) Storage Tongue (P003), secure the Storage Tongues to the vehicle Center Partition. Be sure to install the Storage Tongue low enough in the vehicle to avoid head injury during prisoner entry and exit. (see diagram below)

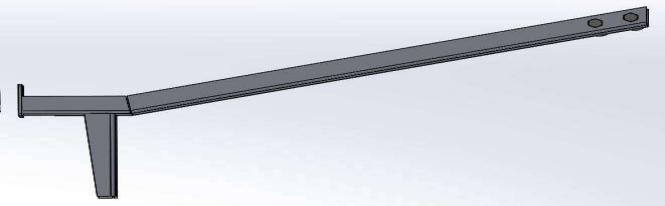
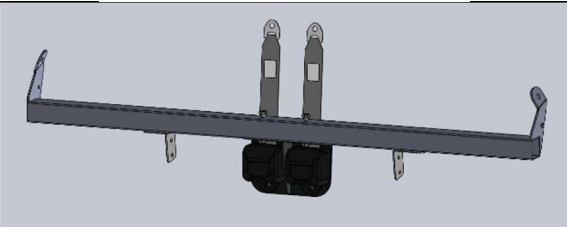
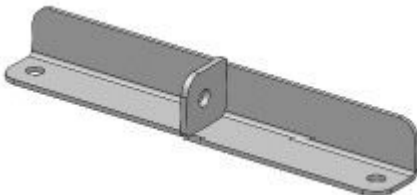
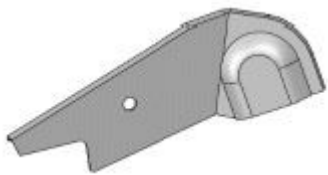


Your installation is now complete. If you have any questions or suggestions for adding additional instructions, please call **Customer Service at (800) 700-8769.**

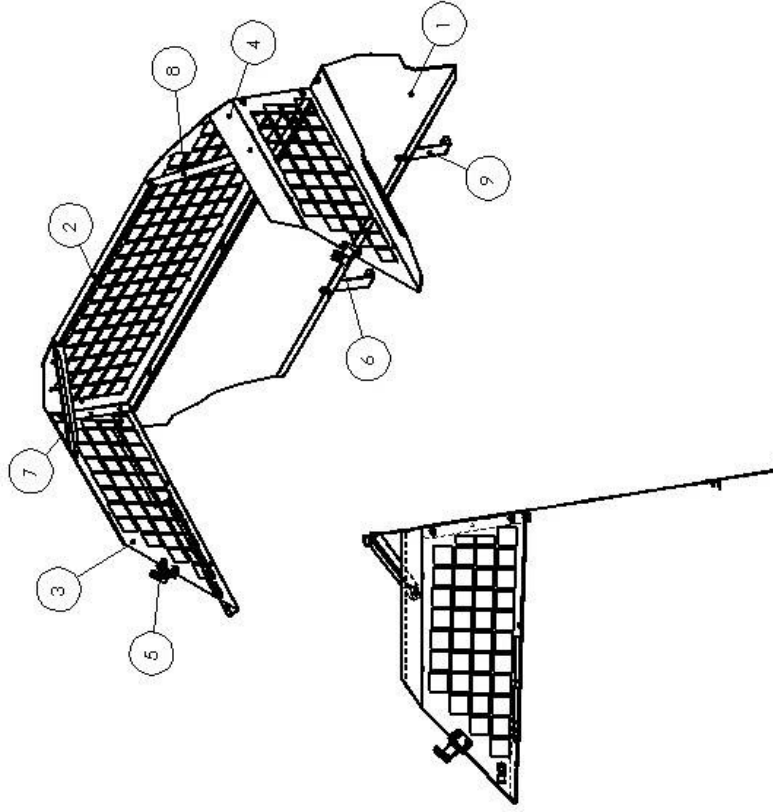
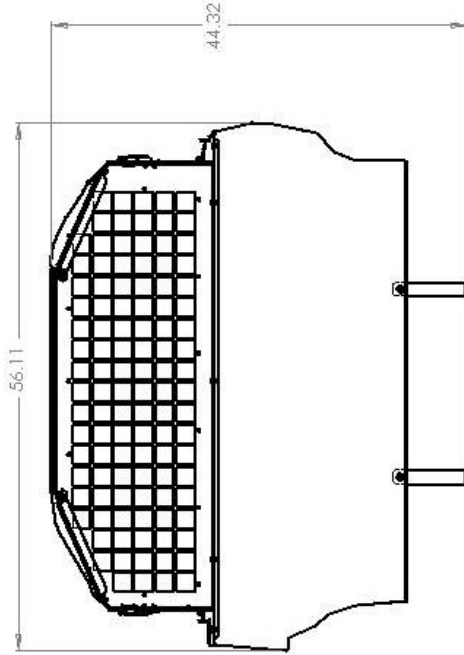
**2020 FORD SUV PRISONER TRANSPORT SEAT WITH OS SEATBELTS
(PY02) Hardware List**

Part No.	Description	Qty.	Picture
P051	#10 X 3/4 PAN HEAD SQUARE DRIVE SELD DRILLING SHEET METAL SCREW	6	
P055	#14 1-1/2" HEX HEAD SELF DRILLING SHEET METAL SCREW BLACK	6	
P057	#6 X 5/8" PAN HEAD PHILLIPS DRIVE SHEET METAL SCREW BLACK	22	
P059	1/4-20 X 3/4" BUTTON HEAD HEX DRIVE SCREW BLACK	6	
P110	.42" ID X 2.5 LENGTH STANDOFF	2	
P116	SWIVEL SPACER	2	
1-FST-08-51240	3/8-16 x 1" HEX HEAD BOLT	4	
1-FST-33-11200	3/8-16 HEX NUT	4	
1-FST-50-11208	3/8" FLAT WASHERS	4	
P209	7/16-20 X 3" FLANGED HEX HEAD CAP SCREW BLACK	2	
P211	M10 X 1.5 X 90MM HEX HEAD CAP SCREW BLACK	2	

P002	BUCKLE RED WITH BLACK RING	2	
P003	STORAGE TONGUE	2	
P004	TOOTHED C-RETAINER	2	
P005B	BELT SLOT COVER	2	
PT81	HIP SIDE TONGUE	2	
P451	SEAT TRIM SEAL	2	
PY60DT	C-PILLAR DRILL TEMPLATE	1	
P160	7/16-20 FLANGED HEX LOCK NUT	3	
P216	7/16-20 x 1" FLANGED HEX HEAD CAP SCREW BLACK	3	
PY41	BENCH SEAT OS BELT	1	
PS-20UV-MNT-#lgd	LEG ASSEMBLY DS	1	

PS-20UV-MNT-#lgp	LEG ASSEMBLY PS	1	
PY64-1	HIP SIDE TOUNGE BRACKET DS	1	
PY64-2	HIP SIDE TOUNGE BRACKET PS	1	
PS-20UV-MNT-#tuba	RETRACTOR AND TUBE ASSEMBLY	1	
PY88	ANCHOR BRACKET	1	
PY91-5D	WING COVER DS	1	
PY91-5P	WING COVER PS	1	

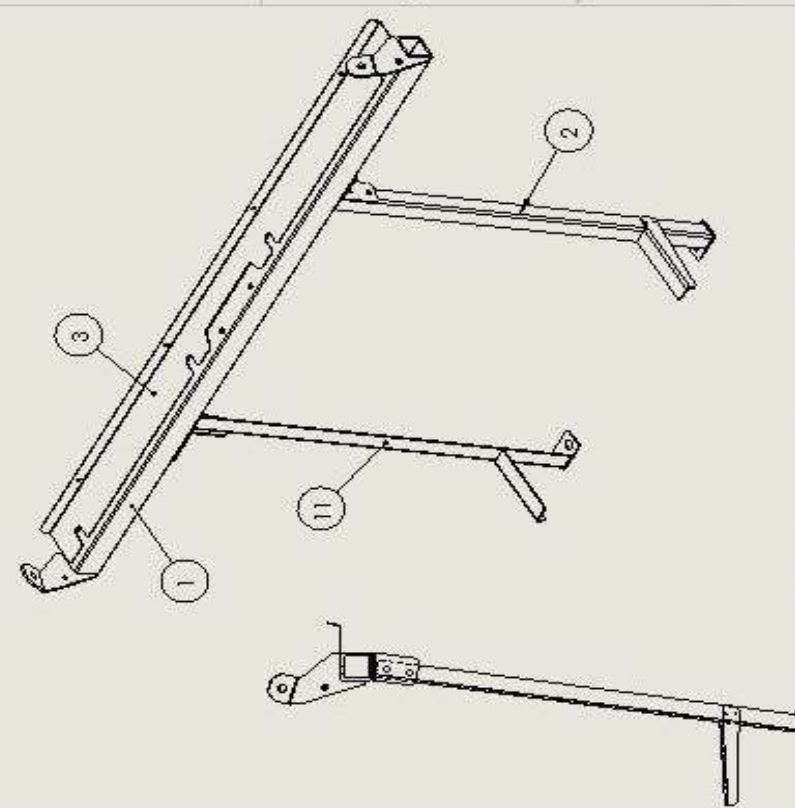
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TP-20-FDUV-R-#bp	Bottom panel	1
2	TP-20-FDUV-R-#tp2	Top panel	1
3	TP-20-FDUV-R-#d	Driv erside panel	1
4	TP-20-FDUV-R-#p	Passengerside panel	1
5	TP-20-FDUV-R-#rd	DS rear bracket	1
6	TP-20-FDUV-R-#rp	PS rear bracket	1
7	TP-20-FDUV-R-#dbrc	DS side brace	1
8	TP-20-FDUV-R-#pbrc	PS side brace (mirror of DS)	1
9	TP-20-FDUV-R-#fi	Foot bracket	2
10	1-FST-50-60800-stc	1/4" Washer,Black 5/8" od (loose)	21
11	1-FST-06-60825-stc	#1/4-20 x 5/8" BH socket screw (loose)	11
12	1-FST-35-31000-stc	# 1/4-20 nylon nut (loose)	19
13	1-FST-03-03816-stc	3/8-16 x 1-1/4 self-tapping bolt (loose)	2
14	3-PAK-580822	5/8" x 8" x 22" DWK 275#	1
15	3-PAK-TPLO80	Troy logo plate	1
16	1-FST-02-91654A	#4 x 3/16 drive screw	2

UNLESS OTHERWISE SPECIFIED:		DATE		10/24/19	
DIMENSIONS ARE IN INCHES		NAME		ME	
TOLERANCES:		DRAWN			
FRACTIONS: 1/16" TO 1/4" BEND 1/8"		CHECKED BY			
DECIMALS: 0.0005 TO 0.001		DATE			
HOLE PLACES DECIMAL - 0.003		ENG APPR.			
HOLE PLACES DECIMAL - 0.005		MFG APPR.			
		O.A.			
		COMMENTS:			
PROPERTY AND CONFIDENTIAL		SIZE		DWG. NO.	
THIS DRAWING IS THE PROPERTY OF THE COMPANY AND IS NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE COMPANY. ALL RIGHTS ARE RESERVED.		DATE		TP-20-FDUV-R	
SHEET 1 OF 1		SCALE: 1:12			

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
			APPROVED



Ship all parts loose

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	PS-20UV-MINT-#fta	Frame tube assembly	1
2	PS-20UV-MINT-#lad	Driver side leg	1
3	PS-20UV-MINT-#gap	Gap panel	1
4	1-FST-50-11208	3/8" Black flat washer	4
5	1-FST-08-51240	3/8-16 X 1" hex bolt	4
6	1-FST-33-11200	3/8-16 hex nut	4
7	1-FST-35-31000-stc	# 1/4-20 nylon nut [loose]	4
8	1-FST-50-60800	BLACK FLAT WASHER, 1/4"	4
9	1-FST-06-60825-stc	#1/4-20 x 5/8" BH socket screw [loose]	4
10	3-PAK-580822	58" x 8" x 22" DWK 275#	1
11	Mirror PS-20UV-MINT-#lad	Passenger side leg	1

1024 South Vail Avenue
Nixa, MO 65662-0020

2020 Ford UV
seat mount

DATE: 12/15/2019

SHEET NO. 1

PS-20UV-MINT

SCALE: 1:2

SHEET 1 OF 1

SHIP ALL PARTS LOOSE

SHIP ALL PARTS LOOSE

SHIP ALL PARTS LOOSE

SHIP ALL PARTS LOOSE

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