



Oct 13, 2022

Revision 0

*A division of Troy Sheet Metal Works, Inc.
1024 South Vail Avenue, Montebello, CA 90640
www.troyproducts.com 323 720-4100*

Part No: WS-21S1-SQRPCH-REAR, PS-21S1-BNCHST & KC-21S1-BNCHST-SPRT
Description: Rear window screen, Bench seat and under seat support box

Vehicle: Silverado 1500
Model year: 2021



Troy Products recommends reading through all installation instructions prior to installation to check that all necessary parts have been included. To comply with manufacturer's safety ratings, all OEM self-threading bolts that are removed must be discarded and replaced with unused bolts at manufacturer's torque requirement.

Tools Required

Sockets/Wrenches: 10mm, 18mm, 5/16, 7/16, 9/16, 5/8

Drivers: 5/32, #2 Phillips head, T45

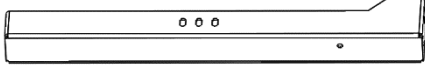
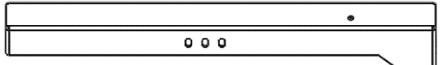
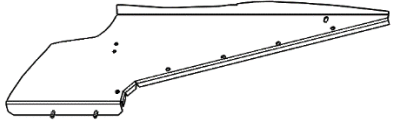
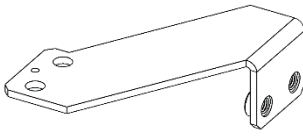
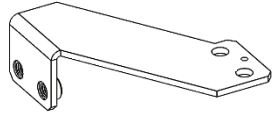
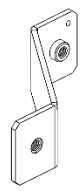
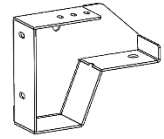
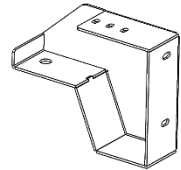
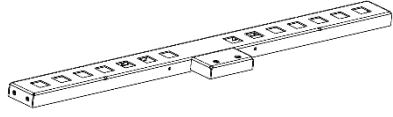
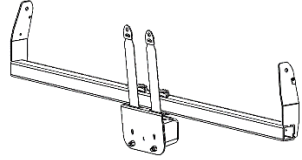
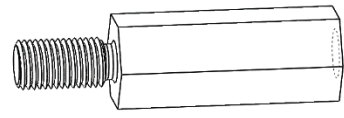
Misc: Needle nose pliers

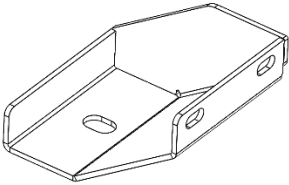
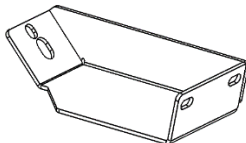
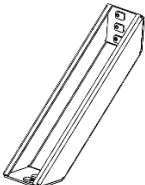
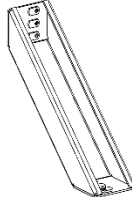
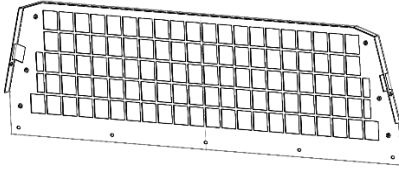
Quickstart Guide

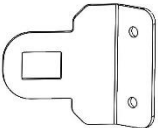
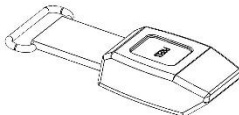
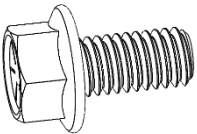
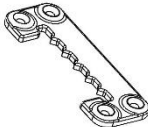
1. Put in the floor brackets and legs.
2. Attach the window screen to the seat tube and put it into the vehicle.
3. Put the cross brace into the vehicle and assemble the two brackets to the rear of the cross brace.
4. Put the triangulation brackets and gap panel bracket onto the floor brackets and legs.
5. Put the under-seat support box into the vehicle and attach it to the floor brackets and cross brace.
6. Put the gap panels in.
7. Put the plastic seat in.
8. Put the ear covers into the vehicles
9. For any fasteners going into a slotted hole, ensure a washer is used.

PS-21S1-BNCHST & WS-21S1-SQRPCH-REAR

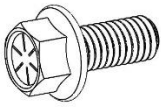
BILL OF MATERIALS

PARTS	
Part number: PS-21S1-BNCHST-#ld Description: LEG DRIVER QTY: 1 	Part number: PS-21S1-BNCHST-#lp Description: LEG PASSENGER QTY: 1 
Part number: PS-21S1-BNCHST-#sgpd Description: SIDE GAP PANEL DRIVER QTY: 1 	Part number: PS-21S1-BNCHST-#sgpp Description: SIDE GAP PANEL PASSENGER QTY: 1 
Part number: PS-21S1-BNCHST-#gpbdd Description: GAP PANEL BRACKET DRIVER QTY: 1 	Part number: PS-21S1-BNCHST-#gpbpp Description: GAP PANEL BRACKET PASSENGER QTY: 1 
Part number: PS-21S1-BNCHST-#bp Description: UPPER GAP PANEL BRACKET QTY: 2 	Part number: PS-21S1-BNCHST-#ecd Description: EAR COVER DRIVER QTY: 1 
Part number: PS-21S1-BNCHST-#ecp Description: EAR COVER PASSENGER QTY: 1 	Part number: PS-21S1-BNCHST-#fbdw Description: FOOT BRACKET DRIVER WELDMENT QTY: 1 
Part number: PS-21S1-BNCHST-#fbpw Description: FOOT BRACKET PASSENGER WELDMENT QTY: 1 	Part number: PS-21S1-BNCHST-#cb Description: CROSS BAR WELDMENT QTY: 1 
Part number: PS-21S1-BNCHST-#tba Description: SEAT BAR ASSEMBLY QTY: 1 	Part number: PS-21S1-BNCHST-#hex Description: C PILLAR STANDOFF QTY: 2 

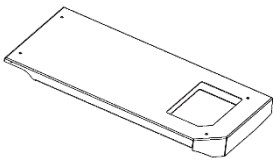
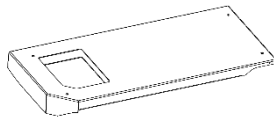
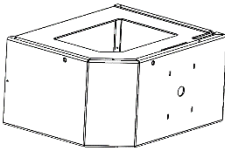
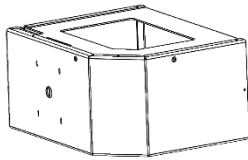
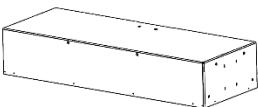
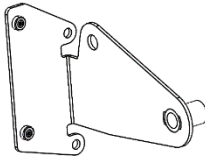
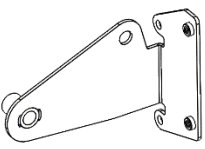
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Part number: PS-21S1-BNCHST-#dtrb Description: DRIVER TRIANGULATION BRACKET QTY: 1 	Part number: PS-21S1-BNCHST-#ptrb Description: PASSENGER TRIANGULATION BRACKET QTY: 1 
Part number: T-P21S141 Description: 2021 SILVERADO PLASTIC BENCH SEAT QTY: 1	Part number: WS-21S1-SQRPCH-REAR Description: REAR WINDOW SCREEN QTY: 1 

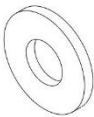
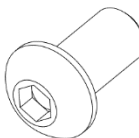
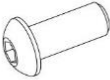
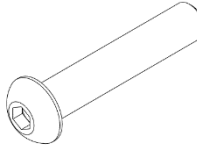
HARDWARE	
Part number: P003 Description: STORAGE TONGUE QTY: 2 	Part number: DC81 Description: DODGE CHARGER HIP SIDE TONGUE QTY: 2 
Part number: P002 Description: SEAT BELT, BUCKLE ASM QTY: 2 	Part number: 1-FST-06-60825 Description: #1/4-20 x 5/8" BH SOCKET SCREW QTY: 53 
Part number: 1-FST-03-38167 Description: 3/8-16 X 3/4" G8 HEX FLANGE SCREW QTY: 53 	Part number: P005B Description: BELT SLOT COVER BENCH SEAT QTY: 2 
Part number: 1-FST-35-31300 Description: #7/16-20 NYLON INSERT LOCK NU' QTY: 2 	Part number: 1-FST-50-60800 Description: BLACK FLAT WASHER, 1/4" QTY: 43 
Part number: P004 Description: TOOTHED C-RETAINER QTY: 2 	Part number: P057 Description: #6 X 0.625" PAN HEAD SMS, BLK QTY: 22 

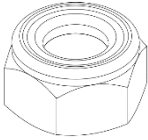
WS-21S1-SQRPCH-REAR, PS-21S1-BNCHST & KC-21S1-BNCHST-SPRT

Part number: P216 Description: #7/16-20 X 1" FLANGED HEX BOLT QTY: 6		Part number: P053 Description: #10 X 1" SELF DRILLING SCREWS QTY: 4	
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KC-21S1-BNCHST-SPRT - BILL OF MATERIALS

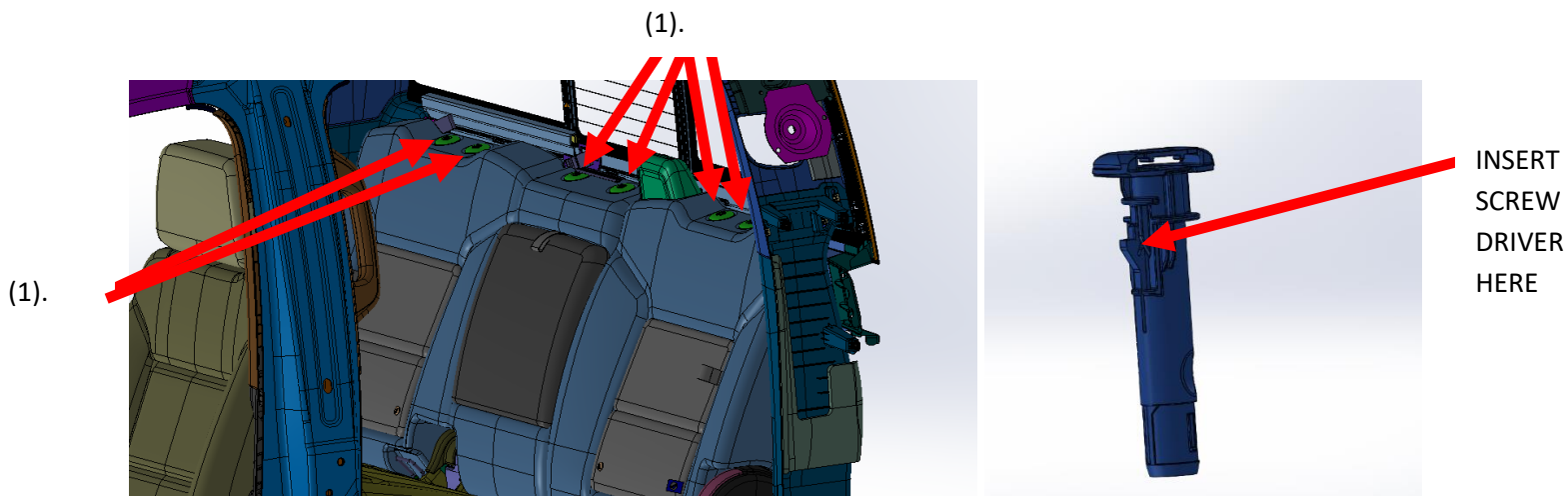
PARTS			
Part number: KC-21S1-BNCHST-SPRT-#dwd Description: DECK WELDMENT, DRIVER SIDE QTY: 1		Part number: KC-21S1-BNCHST-SPRT-#dwp Description: DECK WELDMENT, PASSENGER SIDE QTY: 1	
Part number: KC-21F1-BNCHST-SPRT-#ds Description: DRIVER SIDE STRUCTURE QTY: 1		Part number: KC-21F1-BNCHST-SPRT-#ps Description: PASSENGER SIDE STRUCTURE QTY: 1	
Part number: KC-21F1-BNCHST-SPRT-#css Description: CENTER SUPPORT STRUCTURE QTY: 1		Part number: KC-21F1-BNCHST-SPRT-#dsbw Description: DRIVER SEAT BELT BRACKET WELDMENT QTY: 1	
Part number: KC-21F1-BNCHST-SPRT-#psbw Description: PASSENGER SEAT BELT BRACKET WELDMENT QTY: 1			

HARDWARE			
Part number: 1-FST-50-60800 Description: BLACK FLAT WASHER, 1/4" QTY: 6		Part number: 1-FST-06-60820 Description: #1/4-20 X 1/2" BH SOCKET SCREW QTY: 8	
Part number: 1-FST-06-60825 Description: #1/4-20 x 5/8" BH SOCKET SCREW QTY: 14		Part number: 1-FST-06-61270 Description: 3/8-16 X 2" BH SOCKET SCREW QTY: 2	

Part number: 1-FST-50-11208 Description: BLACK FLAT WASHER, 3/8" QTY: 4		Part number: 1-FST-35-31000 Description: #1/4-20 NYLON INSERT LOCKNUT QTY: 4	
Part number: 1-FST-35-31200 Description: 3/16"-16 NYLON INSERT LOCK NUT QTY: 2			

I.) Rear seat preparation:

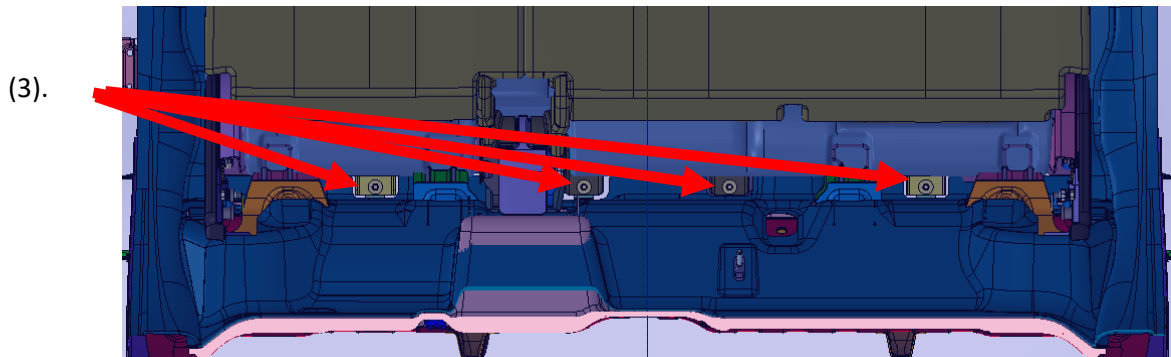
- 1.) Start by removing all three headrests from the rear seats. Then using a screwdriver and pry tool, remove the six retaining sleeves. Once the screwdriver in the plastic tab pull towards the vehicle front softly and use pry tool to pull up on retaining sleeve.



- 2.) Fold up the bottom section of the seats to allow access to the mounting bolts. Using a 18mm socket remove the six mounting bolts shown below.

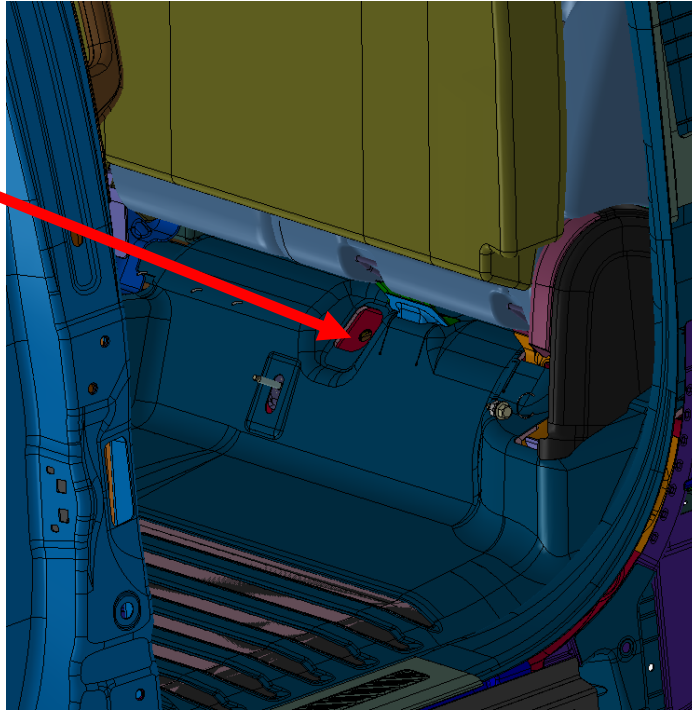


- 3.) Use a 10mm socket, remove the four mounting bolts connecting the seat to the rear cab wall.



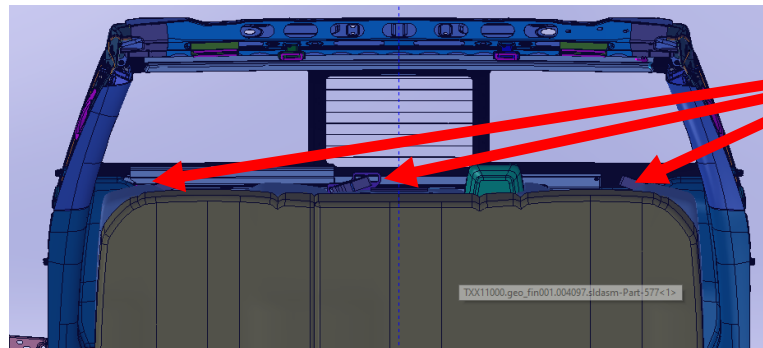
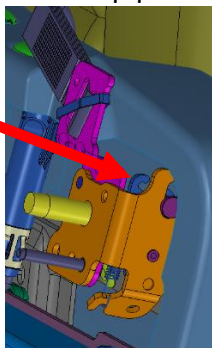
- 4.) Remove the mounting bolt for the middle seat belt that runs through the lower portion of the seat.

(4).



- 5.) Reaching behind the top of the seats pull on the 3 spring loaded latches holding the backs of the seats to the cab wall using the needle nose pliers. These three latches are aligned with the OEM storage tie down plates that stick above the back of the seats. The latches are placed to the left of each plate when looking towards the rear of the vehicle and the release on the latches is shown in the image below. This will allow for the top part of the seats to fold down.

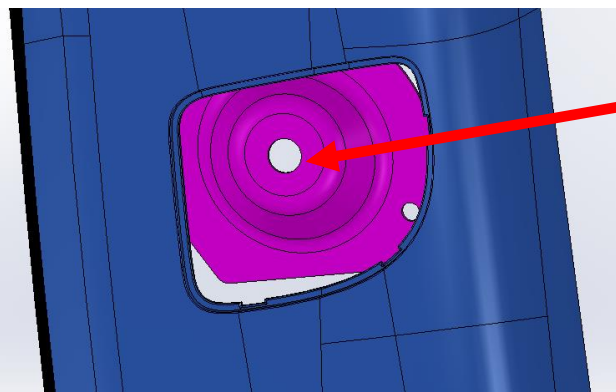
PULL
UP ON
THIS
HOOK



(5).

- 6.) Remove upper C-pillar trim cover on both sides of the vehicle. Once those covers are removed, take out the seat belt mounting bolts in the C-pillar and in the floor of the vehicle just outside of the lower C-pillar trim using a T45 driver bit. Once the seat belt is loose tuck it behind the C-pillar trim. Driver side shown below.

LOWER
MOUNTING
POINT

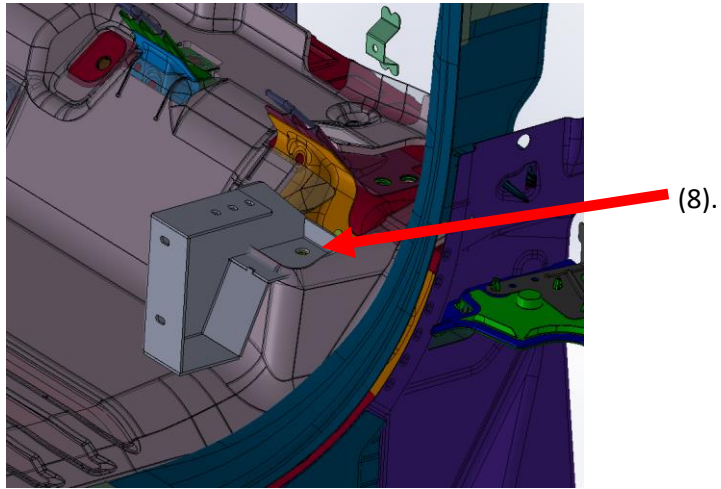


(6).

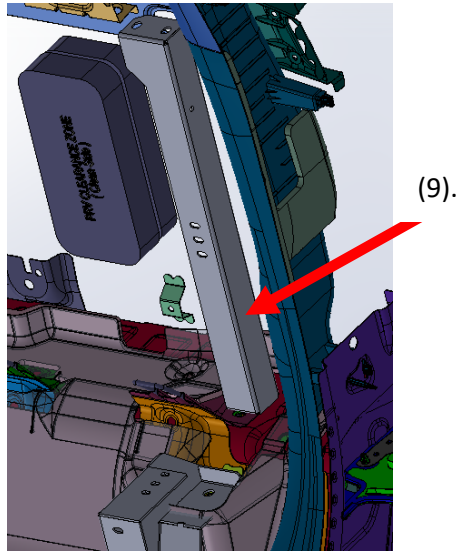
- 7.) Remove the jack and tools from the floor and put these to the side and keep them with the vehicle.

II.) Install bench seat system:

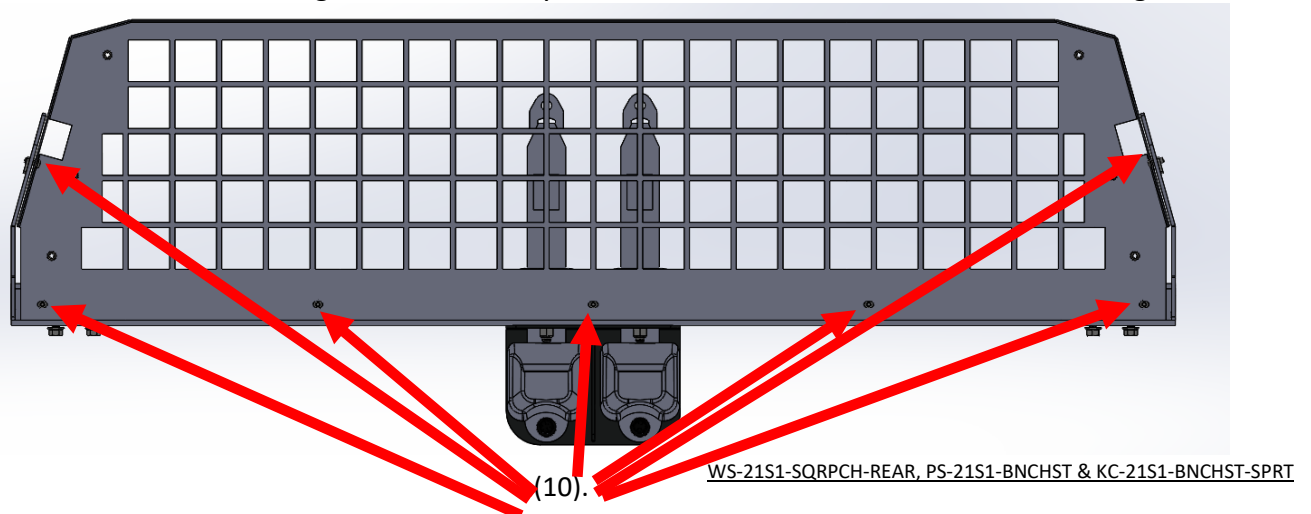
- 8.) Install the floor brackets (PS-21S1-BNCHST-#fbpw AND #fbdw) into the vehicle using two OEM 12mm bolts as shown below. Driver side shown below.

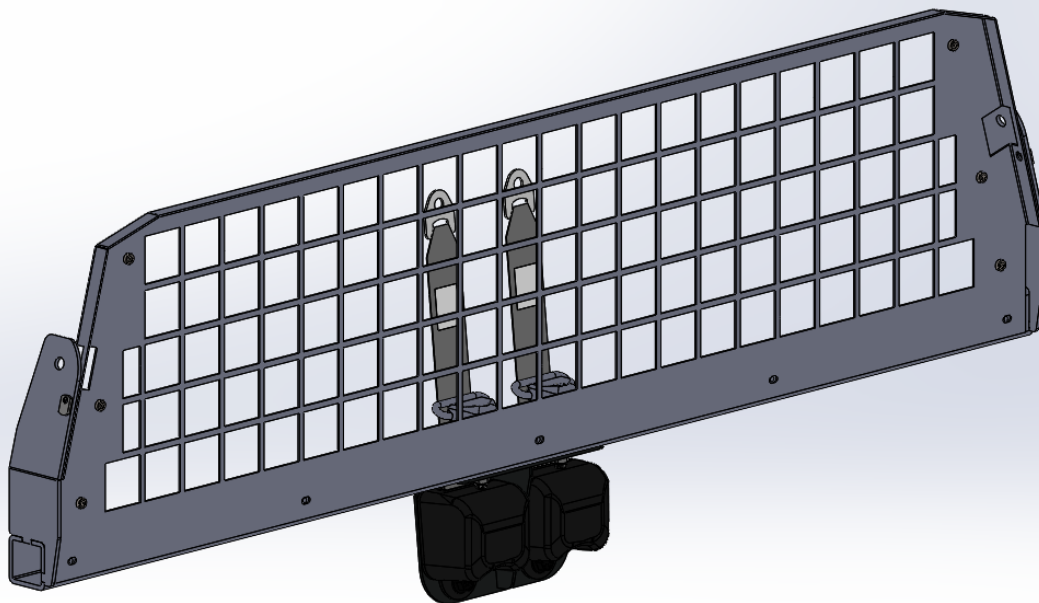


- 9.) Install the leg brackets (PS-21S1-BNCHST-#lp and #ld) into the vehicle using two OEM 12mm bolts into the holes shown below.

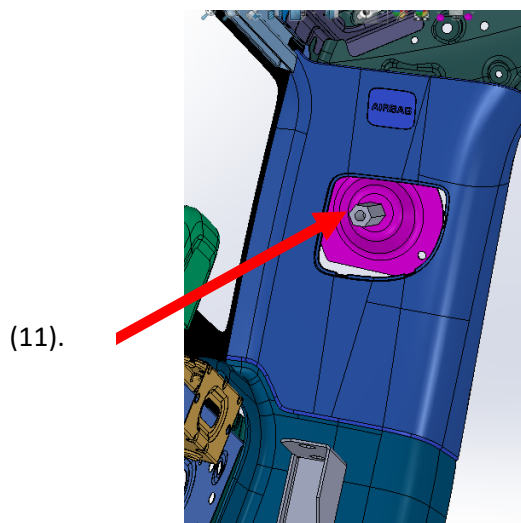


- 10.) Put the rear window screen (WS-21S1-SQRPCH-REAR) onto seat tube assembly (PS-21S1-BNCHST-#tuba) using seven provided 1/4-20 x 0.625" button head screws and washers using a 5/32" allen key or bit driver into the holes shown in the image below.

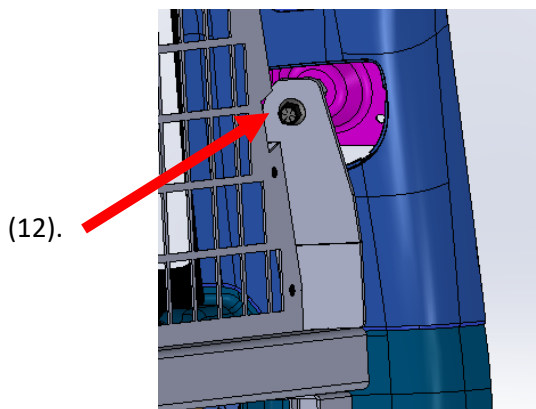




- 11.) Put the two provided standoffs (PS-21S1-BNCHST-#hex) into the OEM seat belt top mounting point in the C-pillars using a 3/4" socket or wrench. Driver side shown below.

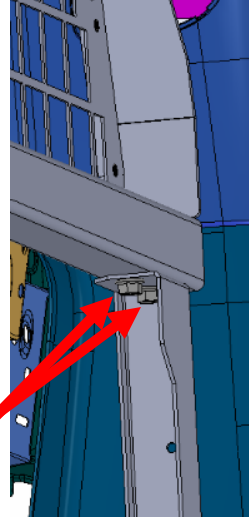


- 12.) Put the seat tube with the rear window screen attached into the vehicle and use two provided 7/16-20 x 1" hex flange bolts using a 5/8" wrench or socket to attach the seat tube to the section of the standoffs sticking through the C-pillar trim. Driver side shown below.

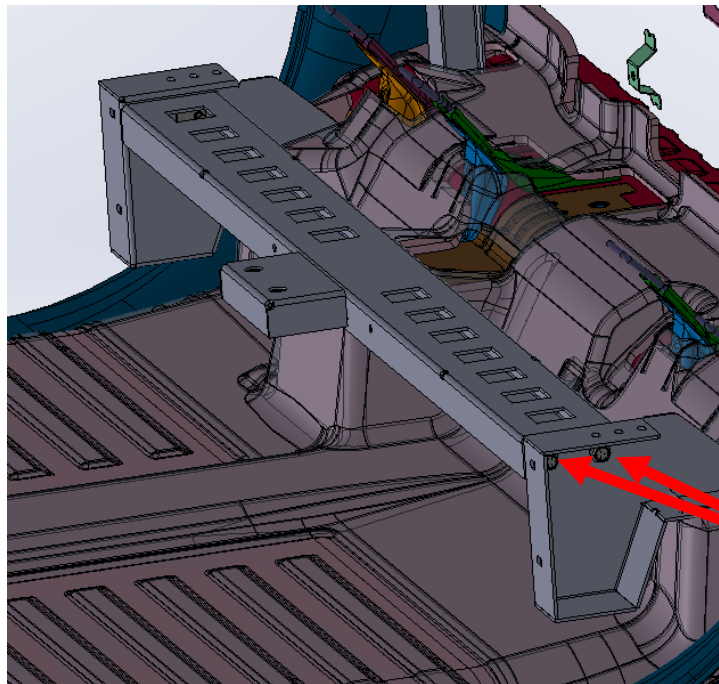


- a. Using four provided 3/8-16 x 0.75" hex flange screws and a 9/16" wrench or socket secure the legs to the bottom of the seat tube. Driver side shown below.

(12a).



- 13.) Put the cross brace (PS-21S1-BNCHST-#cb) into the vehicle between the two floor brackets and attach it to the floor brackets using four provided 3/8-16 x 3/4" hex flange bolts. Leave loose.



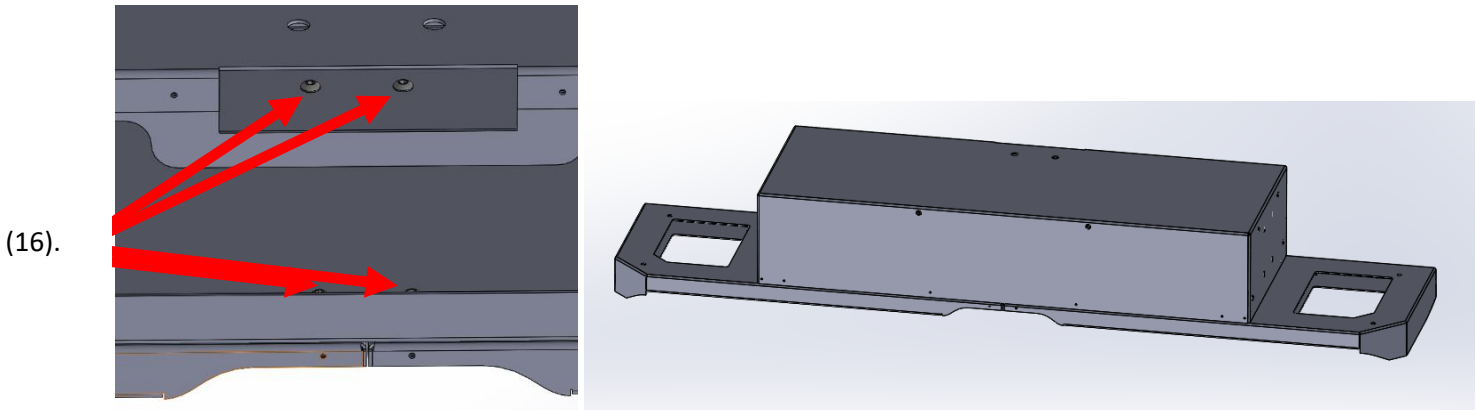
(13).

- 14.) Put the passenger side brace (PS-21S1-BNCHST-#pb) into the vehicle attaching it to the cross brace and using one of the OEM seat mounting holes use an OEM 12mm bolt and two 1/4-20 x 0.625" button head screws and washer to attach the brace to the cross brace.

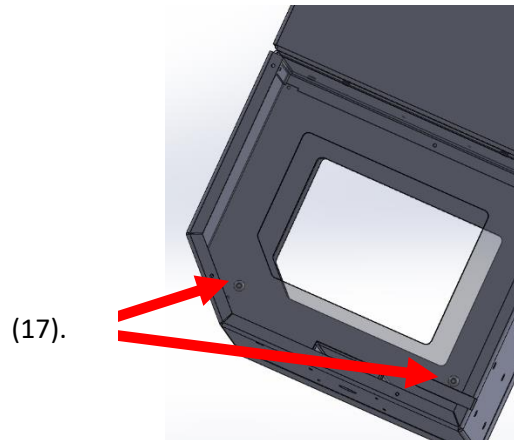


- 15.) Put the driver side brace (PS-21S1-BNCHST-#db.) into the vehicle attaching it to the cross brace and using one the seatbelt hole is next to this hole is an OEM stud in the floor and the brace has a slot in it to allow for clearance of this stud. Use an OEM 10mm bolt and two 1/4-20 x 0.625" button head screws and washers to attach the brace to the cross brace.

- 16.) Next, assemble KC-21S1-BNCHST-SPRT outside of the vehicle. Start with the two decks and the center support structure (KC-21S1-BNCHST-SPRT-#dwd, #dwp, KC-21F1-BNCHST-SPRT-#css) and fasten these together using four provided 1/4-20 x 0.5" button screws as shown below.

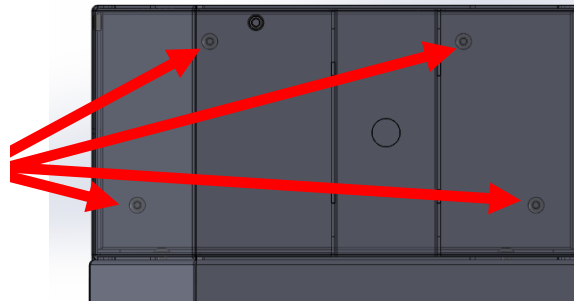


- 17.) Attach the driver side and passenger side support structures (KC-21F1-BNCHST-ENTRY-#ds and #ps) to the deck system using four provided 1/4-20 x 0.5" button screws as shown below. Driver side shown below



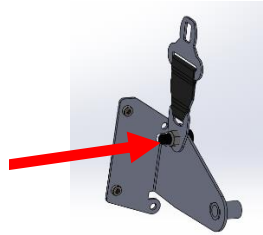
- a. Attach the driver side and passenger side support structure to the center support structures using 8 provided 1/4-20 x 0.625" button head screws as shown below.

(17a).

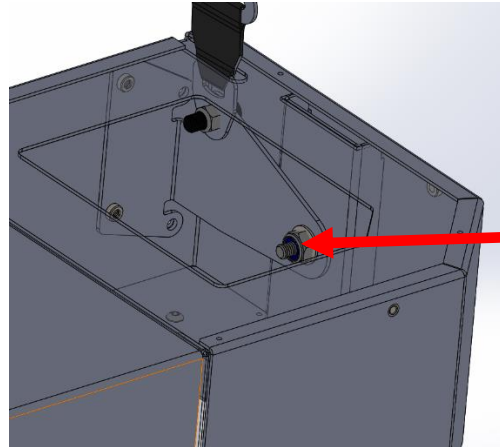


- b. Attach the hip side tongue (DC81) to the driver and passenger side seat belt brackets (KC-21S1-BNCHST-SPRT-#dsbw and #psbw) using two provided 7/16-20 x 1" hex flange bolts and nylon lock nuts using two 5/8" wrenches or sockets. Driver side shown below.

(17b).

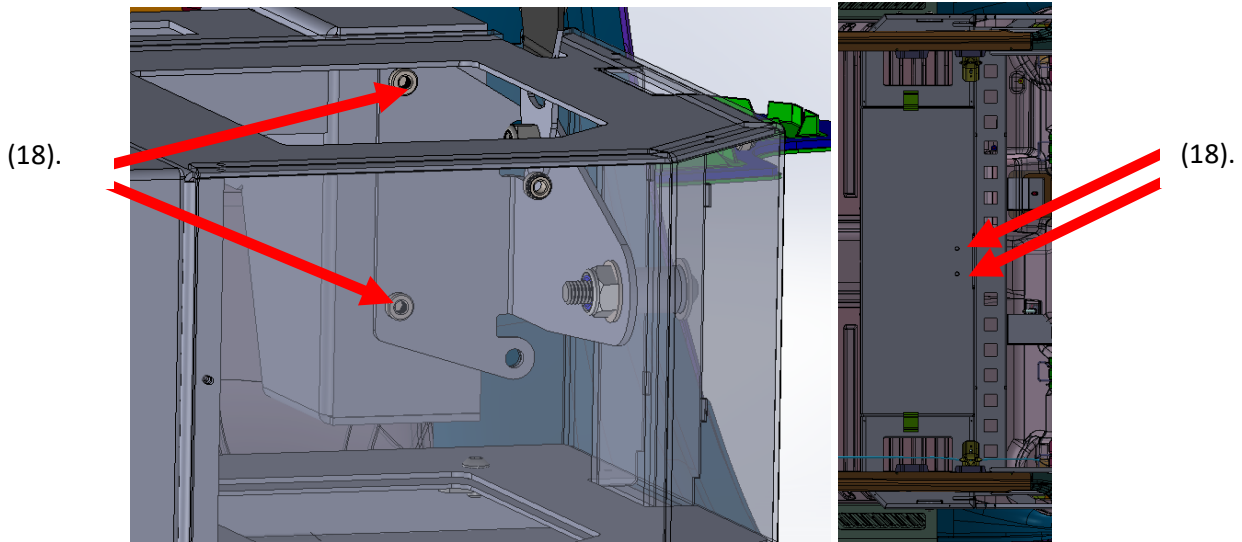


- c. Put the driver side and passenger side seat belt brackets (KC-21F1-BNCHST-ETRY-#dsbw and #psbw) into their respective side support structures with the tube going through the hole in the side of each box as shown below. Then using two provided 3/8-16 x 2" button head screws, nylon lock nuts and four 3/8" washers using a 7/32" allen key or bit driver and a 9/16" wrench or socket through the hole with the tube in it to attach the seat belt bracket to the side support structures. Feed the hip side tongues through the slots in the side support structures. Driver side shown below. Leave loose.

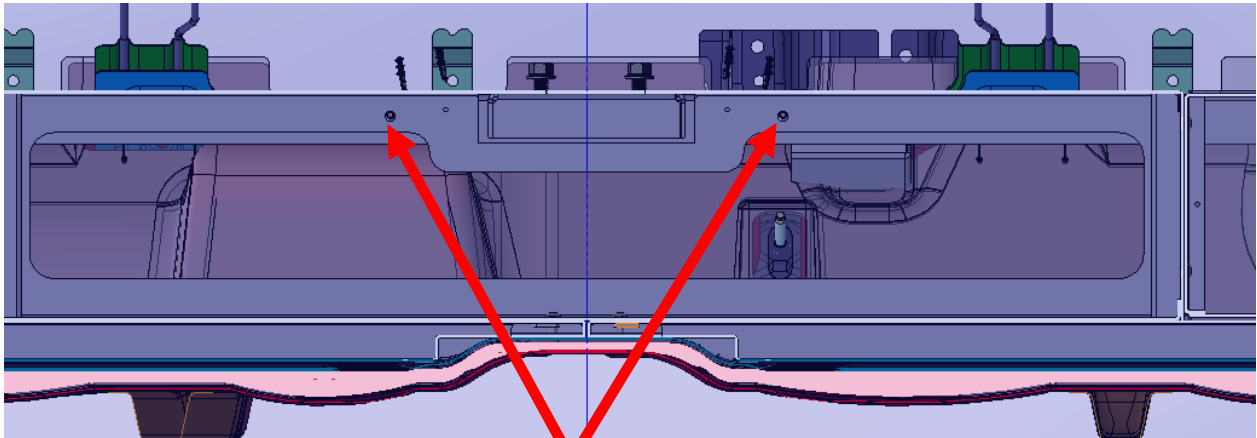


(17c).

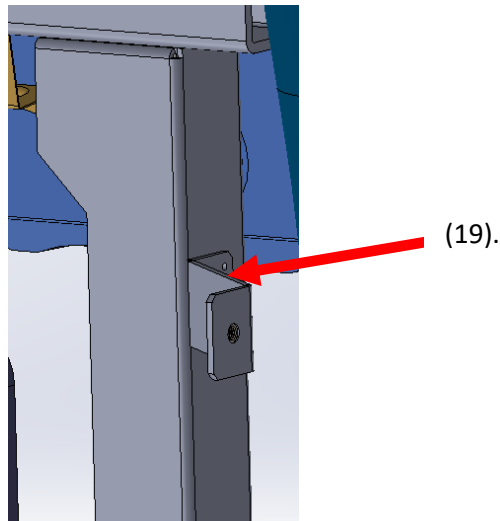
- 18.) Put the whole system into the vehicle aligning as shown below. Use the align the box with the 7/16-20 weld nuts in the cross brace. Then using four provided 1/4-20 x 0.625" button head screws and washers fasten the under-seat support box to the floor brackets as shown below. This will align the seat belt bracket into place as well. Driver side shown below



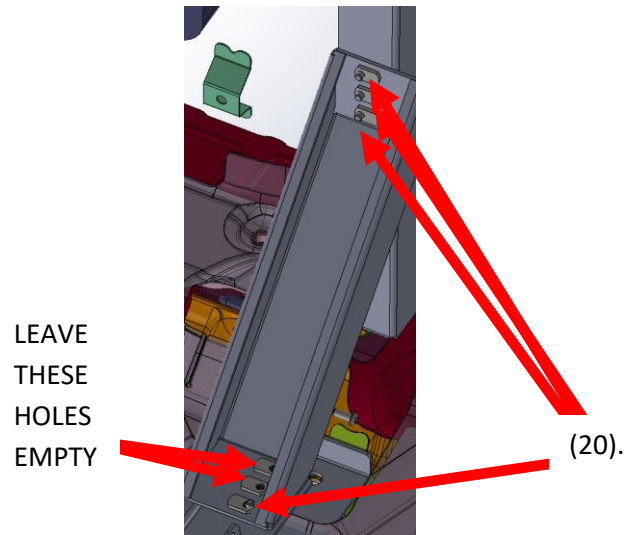
- a. There are two mounting holes on the inside of the center support structure. Connect the under-seat support box to the cross brace using two provided 1/4-20 x 0.625" button head screws fasten these as shown below.



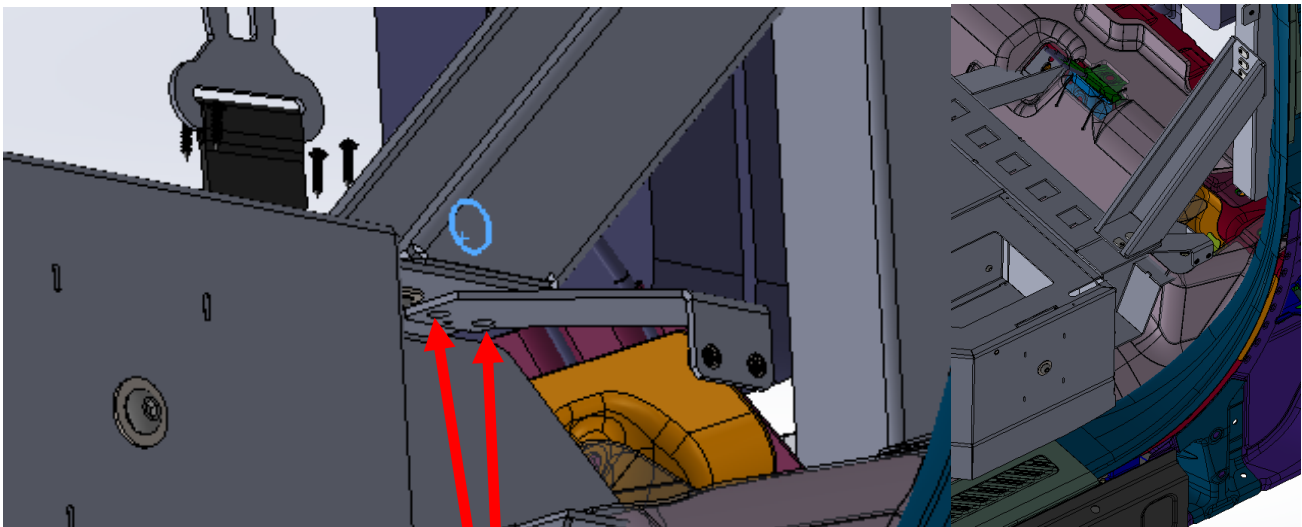
- 19.) Attach the two upper el brackets (PS-21S1-BNCHST-#bp) to the legs on both side of the vehicle using provided 1/4-20 x 0.625" button head screws as shown below. Driver side shown below.



- 20.) Put the driver and passenger side triangulation braces (PS-21S1-BNCHST-#dtrb and #ptrb) in the vehicle and attach them to their respective legs and floor brackets as shown below using eight provided 1/4-20 x 0.625" button head screws and washers. **Be sure to leave the two mounting holes towards the rear of the vehicle empty as shown below.** Driver side shown below.

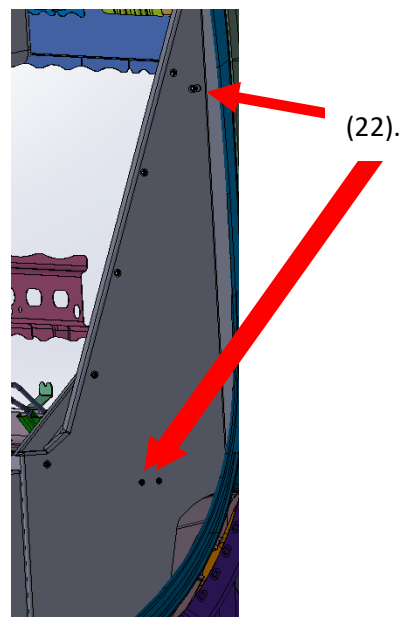
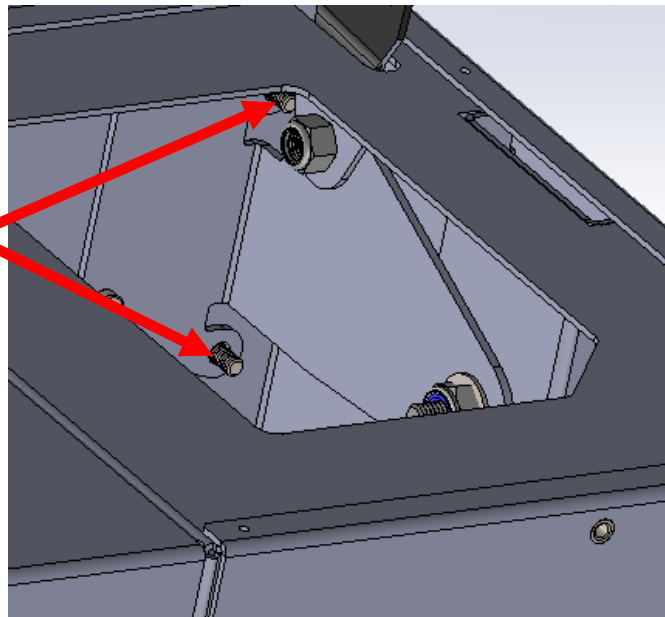


- 21.) Attach the lower gap panel brackets (PS-21S1-BNCHST-#gpbd and #gppb) to the bottom of the top face of each floor bracket. Use four provided 1/4-20 x 0.625" button head screws and washers. Driver side shown below.



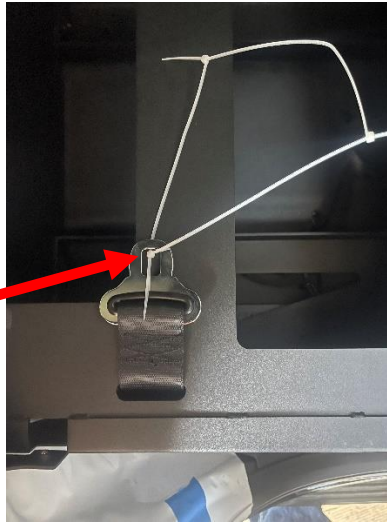
- 22.) Put the driver and passenger side gap panels (PS-21S1-BNCHST-#sgpd and #sgpp) into the vehicle using the studs to line it up into the back face of the driver and passenger side support structures. Use four provided 1/4-20 nylon lock nuts using a 7/16" socket or wrench and six provided 1/4-20 x 0.625" button head screws attach the gap panel to the upper and lower gap panel brackets.

(22).

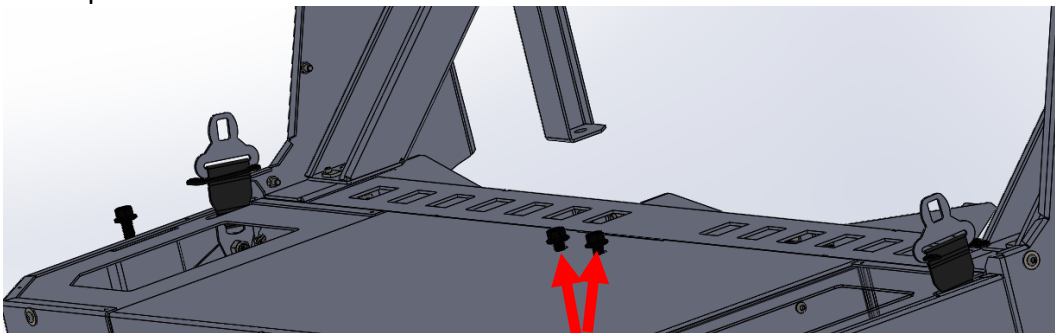


- 23.) Use zip ties to daisy chain through the hip side tongue to make it easier to feed the hip side tongues through the plastic seat.

(23).



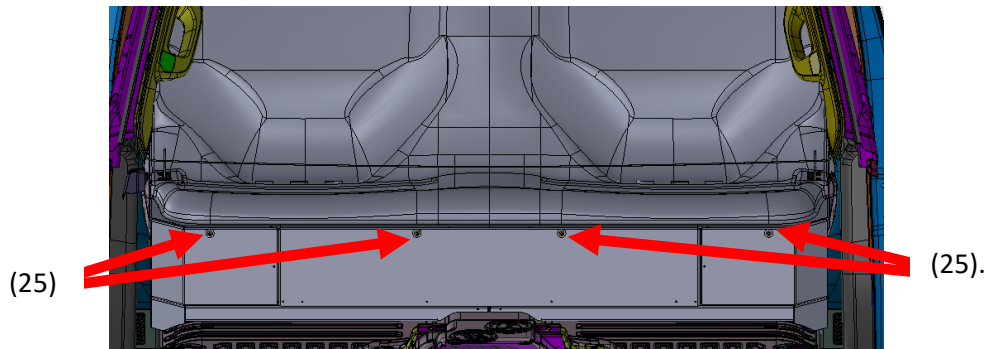
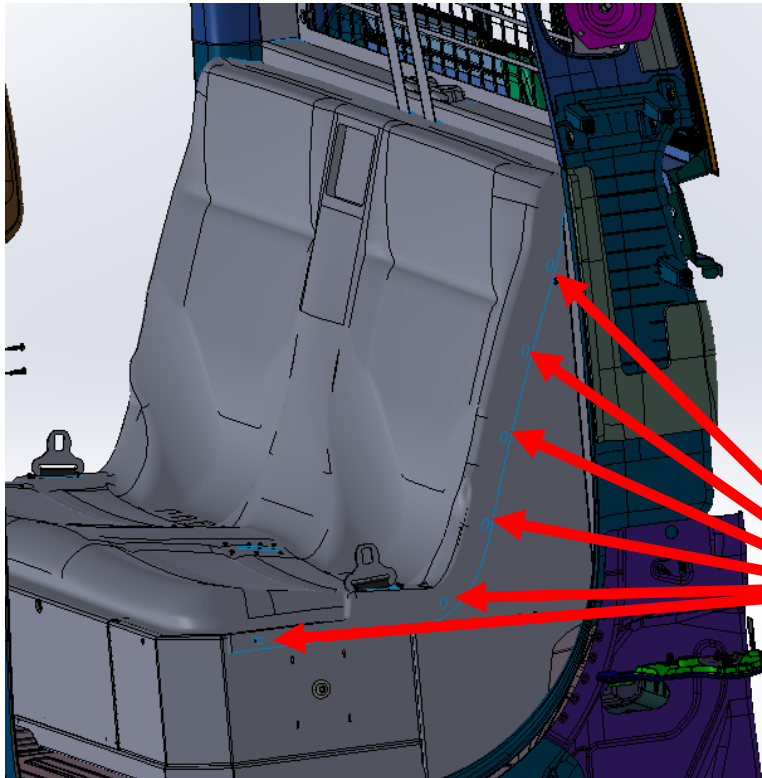
- 24.) Put the plastic seat into the vehicle and feed the seat belt through the slots on the top of plastic seat. Then feed the two provided replacement seat buckles on the seat belts then feed the seat belt through the slots in the middle of the plastic seat. Seat belt orientation shown below. It is shown from Expedition as example. **Be sure to not have the seatbelts twisted when putting them through the seat.** Fasten the seats into the top of the center support structure using two provided 7/16-20 x 1" hex flange bolts. Feed the hip side tongue through the slots on the outside edges of the vehicle using the zip ties to assist.



(24).

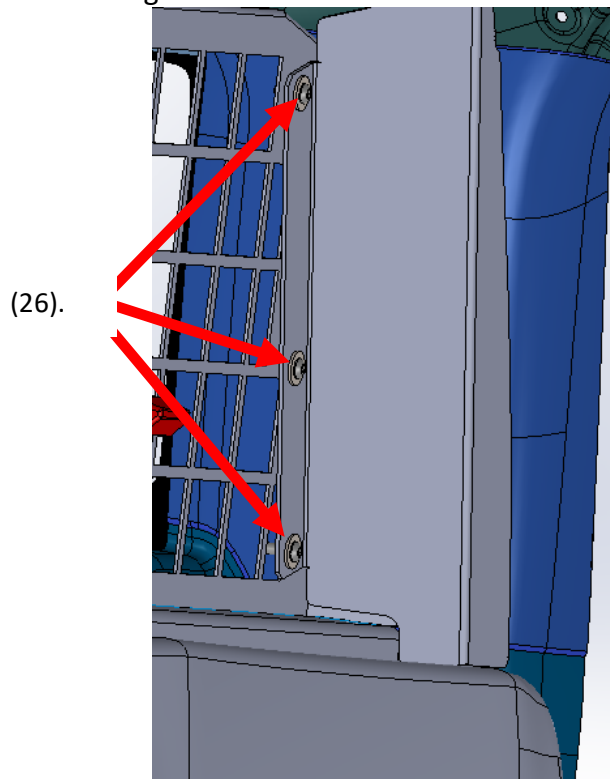


- 25.) Fasten the plastic seat to the gap panels and under seat support box using sixteen provided 1/4-20 x 0.625" button head screws and washers. Driver side shown below.

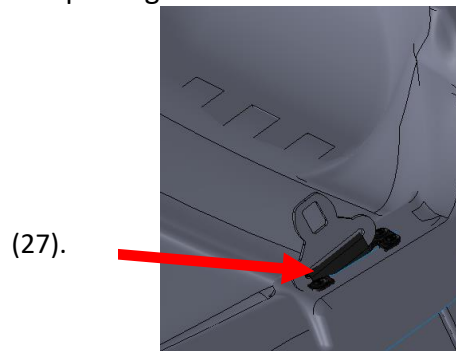


WS-21S1-SQRPCH-REAR, PS-21S1-BNCHST & KC-21S1-BNCHST-SPRT

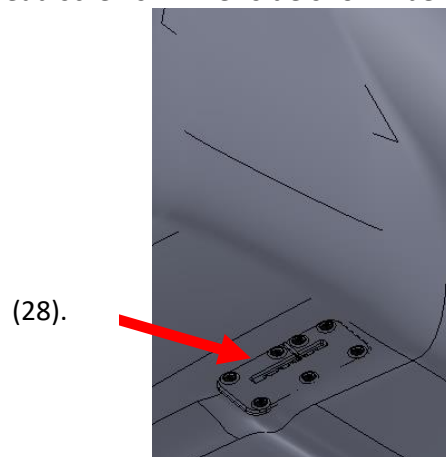
- 26.) Put the driver and passenger side ear covers (PS-21S1-BNCHST-#ecd and #ecp) into the vehicle using six provided 1/4-20 x 0.625" button head screws and washers as shown in the image below. Driver side shown below.



- 27.) Put two provided C-toothed retainers (P004) onto the hip side tongues using eight provided #6 x 0.625" pan head screws using a #2 Phillips head bit. Pull the hip side tongue up while putting the retainer on. Driver side shown below.

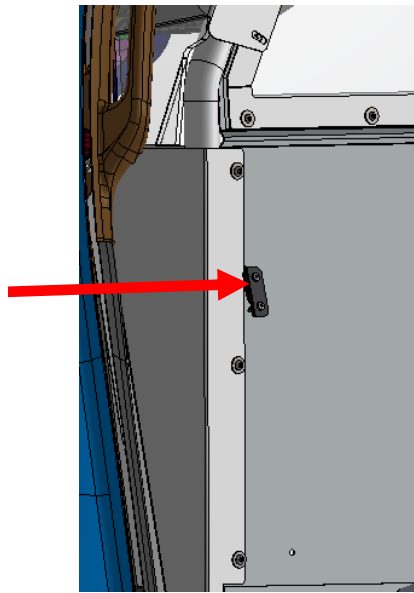


- 28.) Put two provided belt slot covers (P005B) on to the seat belts in the middle of the vehicle. Align them with the slots on the plastic seat using fourteen provided #6 x 0.625" pan head screws. Driver side shown below.



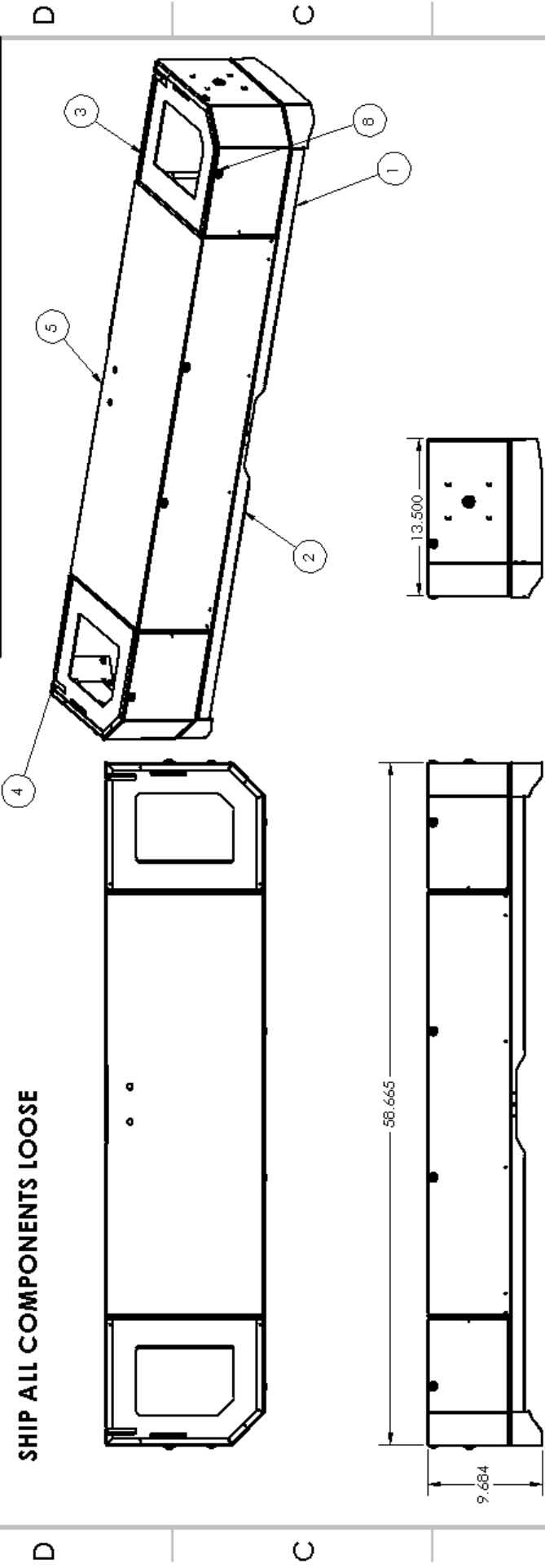
- 29.) Attach two provided seat belt tongues to the front partition using four provided #10 x 1" sheet metal screws using a 6mm socket as shown below. Driver side shown below.

(29).



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

SHIP ALL COMPONENTS LOOSE



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	KC-21SI-BNCHST-SPRT-#dwd	DECK WELDMENT, DRIVER SIDE	1
2	KC-21SI-BNCHST-SPRT-#dwp	DECK WELDMENT, PASSENGER SIDE	1
3	KC-21FI-BNCHST-ETRY-#ds	DRIVER SIDE STRUCTURE	1
4	KC-21FI-BNCHST-ETRY-#ps	PASSENGER SIDE STRUCTURE	1
5	KC-21FI-BNCHST-SPRT-#css	CENTER SUPPORT STRUCTURE	1
6	KC-21FI-BNCHST-ETRY-#dsbw	DRIVER SEAT BELT BRACKET WELDMENT	1
7	KC-21FI-BNCHST-ETRY-#psbw	PASSENGER SEAT BELT BRACKET WELDMENT	1
8	KC-21SI-BNCHST-SPRT-#hw	LOOSE HARDWARE	1



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UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TELE:
ENGINEERING	DESIGNER	SJ	8/10/2022	
MANUFACTURING	DESIGNER	SJ	8/10/2022	
INSPECTION	DESIGNER			
WELDING	DESIGNER			
FINISHING	DESIGNER			
COMMENTS:		2021 SILVERADO BENCH SEAT, SEAT SUPPORT		
SIZE		DWG. NO.		REV
B		KC-21SI-BNCHST-SPRT		A
SCALE: 1:12				SHEET 1 OF 1

