



INSTALLATION INSTRUCTIONS

SEGWAY
FUGLEMAN UT10 E(X)
PROTECTOR



SAFETY INSTRUCTIONS

WARNING: Failure to follow all safety and operating instructions and warnings regarding use of this product can result in serious bodily injury.

THOROUGHLY READ ENTIRE ASSEMBLY INSTRUCTIONS BEFORE STARTING THE ASSEMBLY OF THE CAB KIT

ALL PARTS shown in the assembly instructions MUST BE INSTALLED. Failure to fully assemble the product before use could result in personal injury.

Assembly of product requires use of hand or power tools. If you are not experienced in using these types of tools, have product dealer do the install for you.

Some parts contain sharp edges, wear protective gloves if necessary.

Always keep your assembly area clean, uncluttered and well lit.

Keep visitors and children a safe distance away from the assembly area. Visitors should wear the same safety equipment described in this section.

Never operate your UTV with the cab doors open. Failure to properly latch the doors before moving the vehicle could result in serious injury.

Dress for safety. DO NOT wear loose clothing, gloves, neckties or jewelry if using power tools to assemble this product.

Insert all nut covers after you finish installation.

Never drive your UTV with the cab front window in full open position. Failure to properly latch front window before driving the vehicle could result in serious injury.

Please be careful to not break the large black plastic washers by overtightening. Torque screws to a maximum 3.7 foot-pound force (5 Nm)!!!

WARNING: For safety purposes, if the HardCabs Cab doors are removed, it is mandatory that the OEM manufactured Half Doors or Nets are REINSTALLED before operating the vehicle.

MAINTENANCE AND CLEANING

To clean polycarbonate surface use soapy water solution or other subtle means.

Wash off Dirt and dust with a gentle water stream and wipe off with wet or damp-soft towel in the direction from top to bottom.

The recommended frequency of cleaning of polycarbonate panels is about 1 time per month or according to the actual degree of dirtiness.

*Do not use detergents that could scratch the surface plates.
(abrasives, harsh fabrics, etc.)*

*Do not use solvents or alkaline detergents or cleaners with ammonia
(ammonium hydroxide).*

Do not remove the impurities from the surface with razor blades or other sharp items.

Do not clean cab when the polycarbonate plates are heated by the sun.

Do not use a squeegee, it could scratch surface plates.

Do not power wash at a strength of more than 725psi (50 Bar).

The manufacturer is not responsible for-surface scratches due to failure to comply with the above instructions.

*All bolted connections of cab must be checked and tightened.
by user at regular intervals.*

It is necessary to check the air filter of the heater regularly, depending on the dust environment in which the vehicle is operated.

PREPARATION FOR INSTALLATION

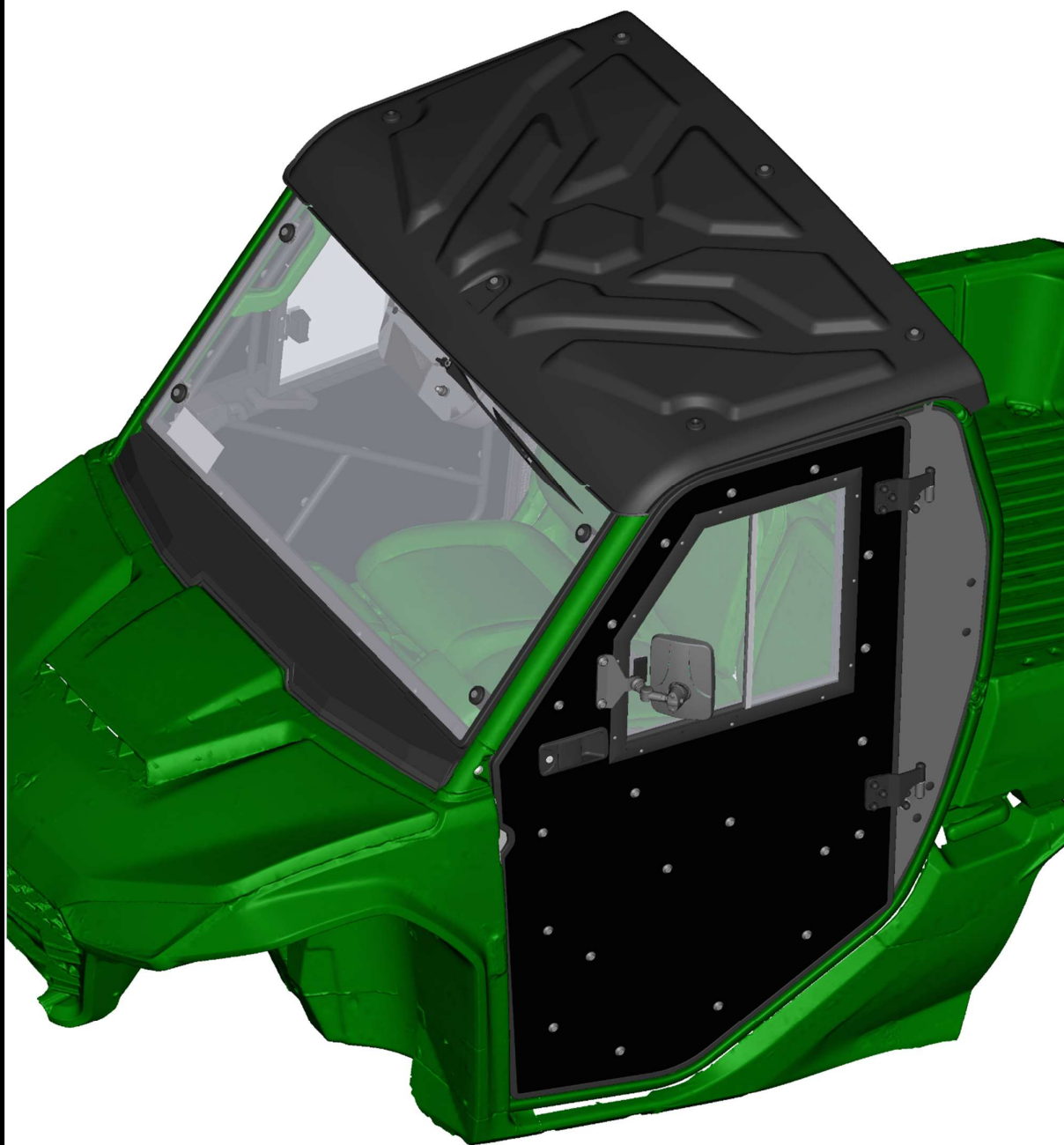
Uninstall all additional systems from the roller cages (work lights, rear mirrors, drink holders etc.)



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CAB PREVIEW

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ELECTROINSTALLATION 1.

Uninstall the original box from the dashboard.



Uninstall the floor tunnel cover from the vehicle.



Uninstall the right seat from the vehicle.

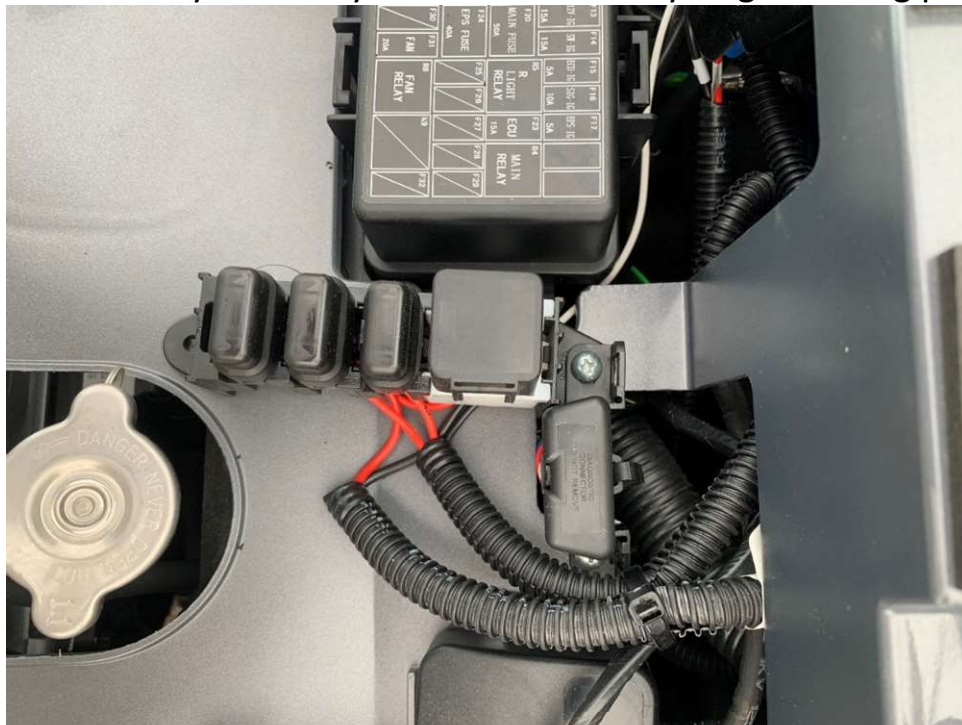
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Uninstall the plastic front cap cover.
Place the relay harness near the original fuse box.



Install the relay assembly with the vehicle by original fixing point.



Install the washer tank holder onto the vehicle frame by original fixing point.



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Connect the relay harness with the original electro-installation. Red wire with the +12V (red mark), black wire with the -12V (green mark).



Push out the original switch.



Find the free original pin.



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Connect the relay harness with the free pin on the switch.

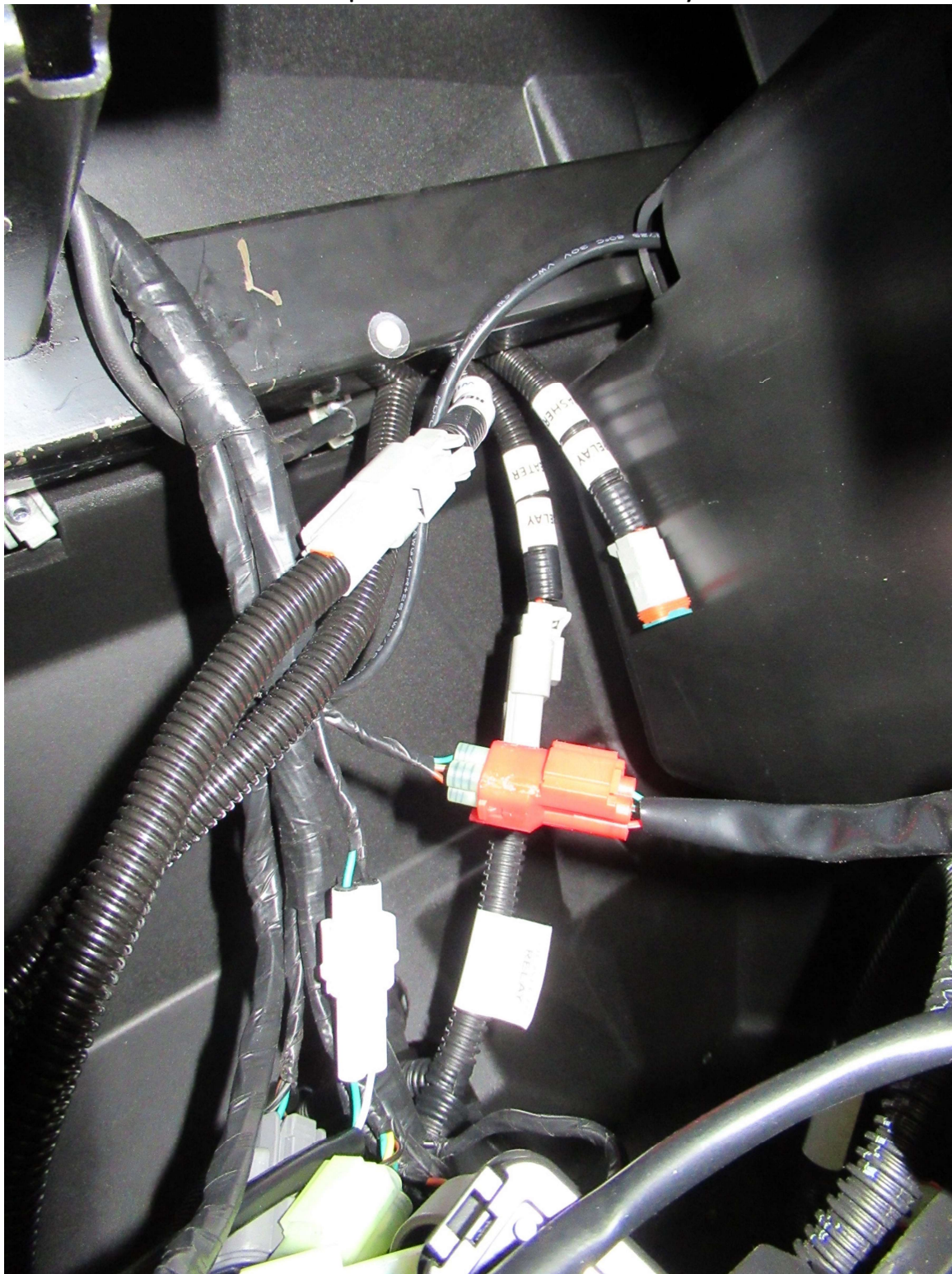


Insert the wiper harness into the inner dashboard space.
Connect the harness with the washer tank.



SEE NEXT PAGES

Connect the wiper harness with the relay harness.



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Run the wiper harness from the dashboard to the right seat through the floor tunnel.



SEE NEXT PAGES

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Run the wiper harness to the right rear vehicle frame.



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Run the wiper harness around the vehicle frame.

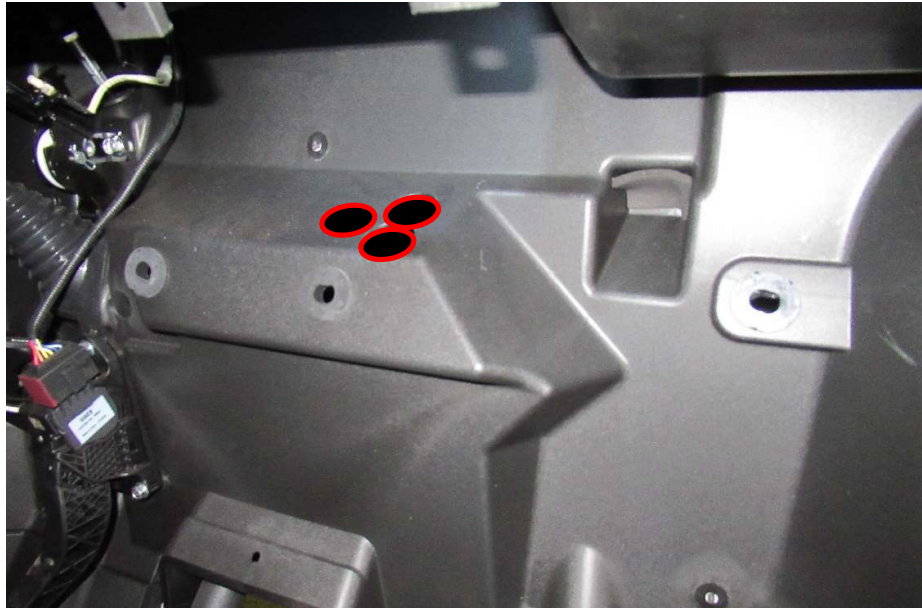


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HEATER 1.

WARNING: FOR SUCCESSFUL AND COMPLETE INSTALLATION OF THE DFK HEATER ASSEMBLY, IT IS NECESSARY TO MOUNT DFK TILT-OUT FRONT PANEL P/N 74S02U01S10, OR DFK FRONT PANEL P/N 74S02R01S10

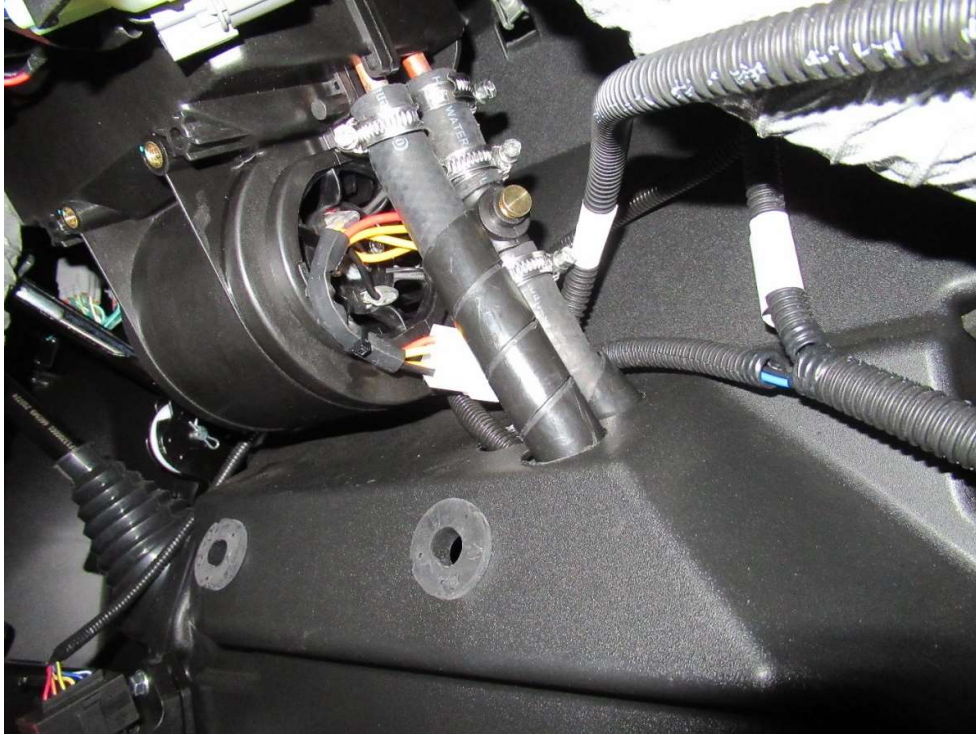
Drill 3 holes \varnothing 25mm into the inner plastic wall.



Insert the tightening rings onto the heater hoses. Insert the heater hoses onto the heater tubes. Secure the hoses with the heater by the rings.



Cut the heater hose and insert tightening rings onto the hose.
Insert air-bleeding valve into the heater hose.
Secure the valve with the hose by tightening rings from previous step.



SEE NEXT PAGES

Insert the heater hoses into the drilled holes.



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Insert the heater harness into the inner dashboard space.

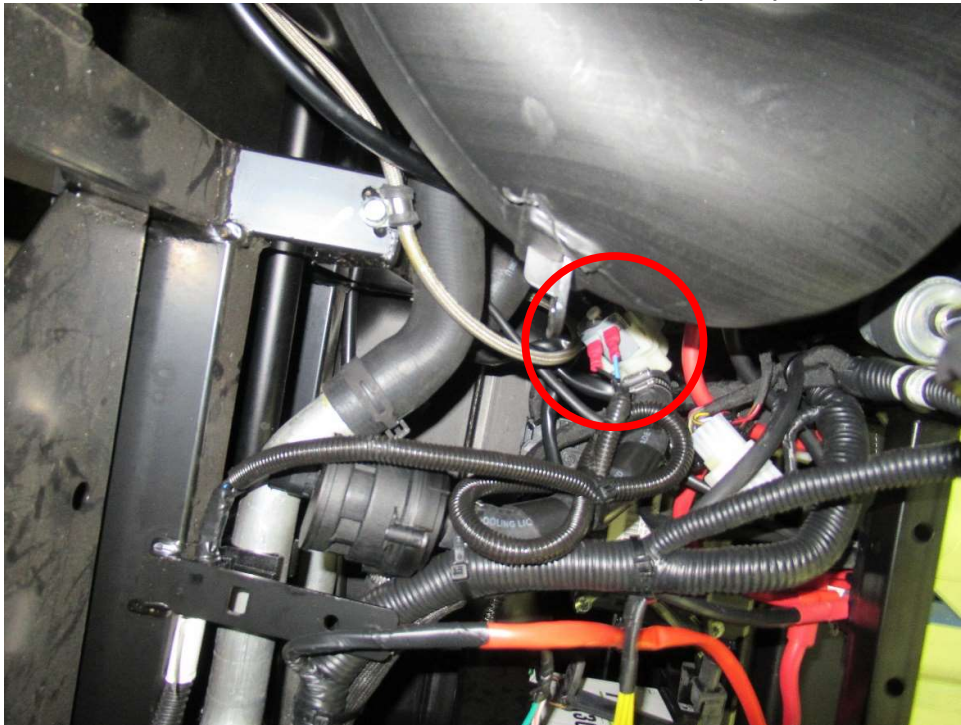


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Run the heater hose through the floor tunnel to the engine space.



Install the el. valve and the water pump into the heater hose.
Run the heater harness to the el. valve. Connect the heater harness with
the el. valve and with the water pump.



Connect the heater harness with the heater.



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CAUTION

DO NOT MANIPULATE WITH ENGINE OR WITH ENGINE COOLING SYSTEM IF THAT PARTS OF MACHINE IS HOT! WHEN ENGINE IS HOT, ANY MANIPULATION CAN RESULT IN SERIOUS BODY INJURY!

Insert tightening ring onto the heater hose. Insert the “Y” tube into the heater hose (**red mark**). Secure the original engine cooling hose (**green mark**) by clamps or pliers (not included). Cut the cooling hose and insert tightening ring onto the hose. Insert the “Y” tube into the cooling hose. Secure tube with the hoses by tightening rings.

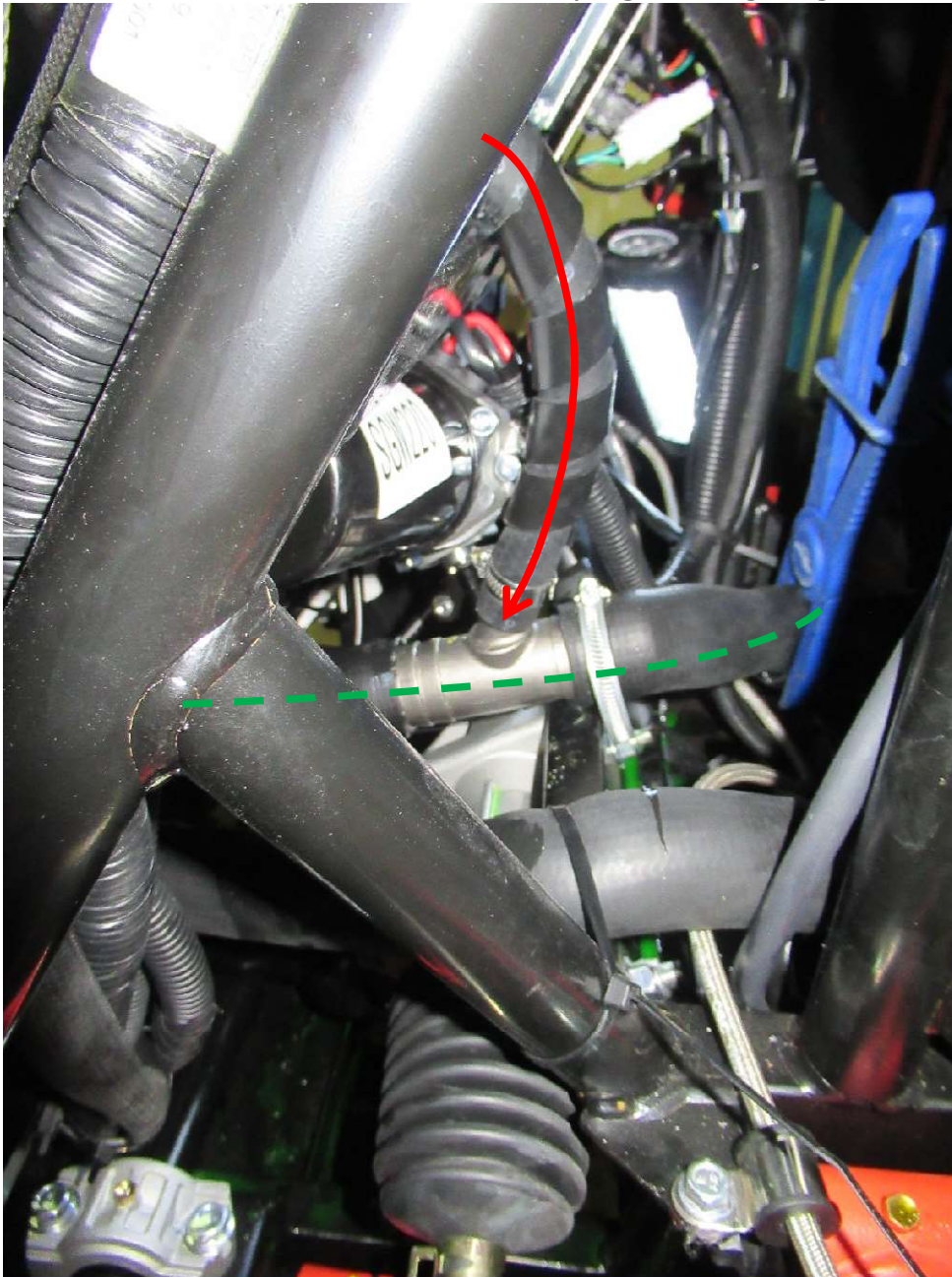


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Run the heater hose from the heater to the front right wheel space.

Insert tightening ring onto the heater hose. Insert the “Y” tube into the heater hose (**red mark**). Secure the original engine cooling hose (**green mark**) by clamps or pliers (not included). Cut the cooling hose and insert tightening ring onto the hose. Insert the “Y” tube into the cooling hose.

Secure tube with the hoses by tightening rings.



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Install the heater with the holder onto the vehicle frame.



Push the air hoses into the inner dashboard space.



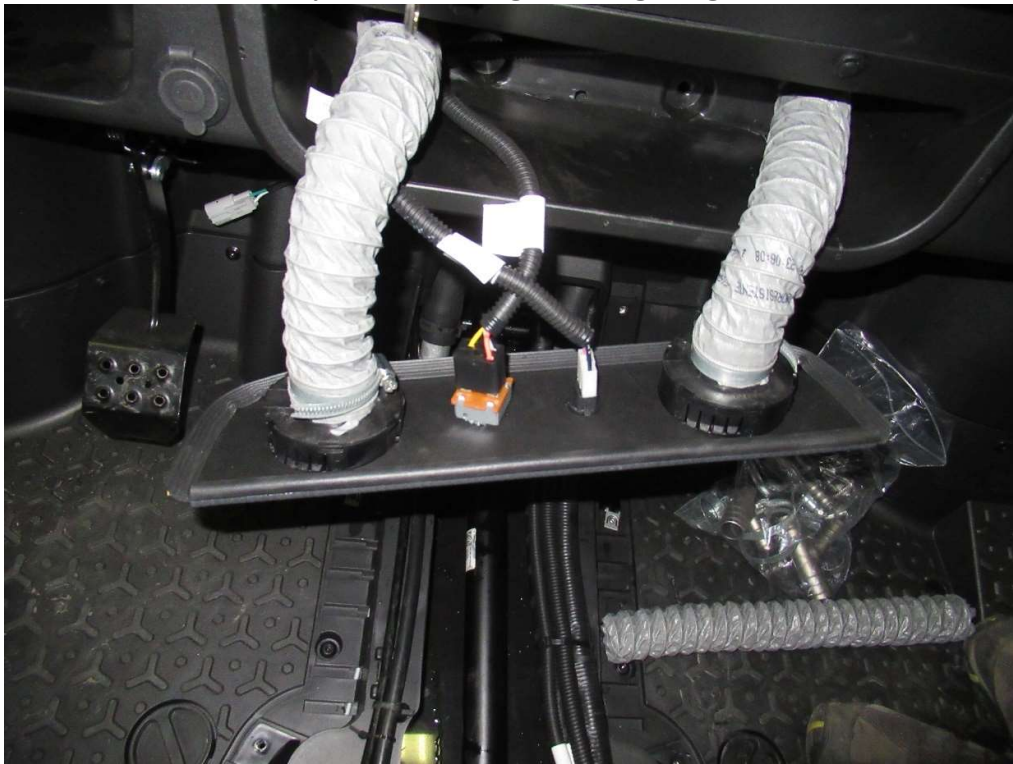
Drill 2 holes ø55mm into the dashboard plastic wall. Run the air hoses through the drilled holes.



Connect the heater harness with the switches on the cover.



Install the air hoses onto the air vent and secure the hose with the vent by included tightening ring.



Place the cover onto the dashboard and fix the cover by included screws.



Take out the original warning sticks from the dashboard.



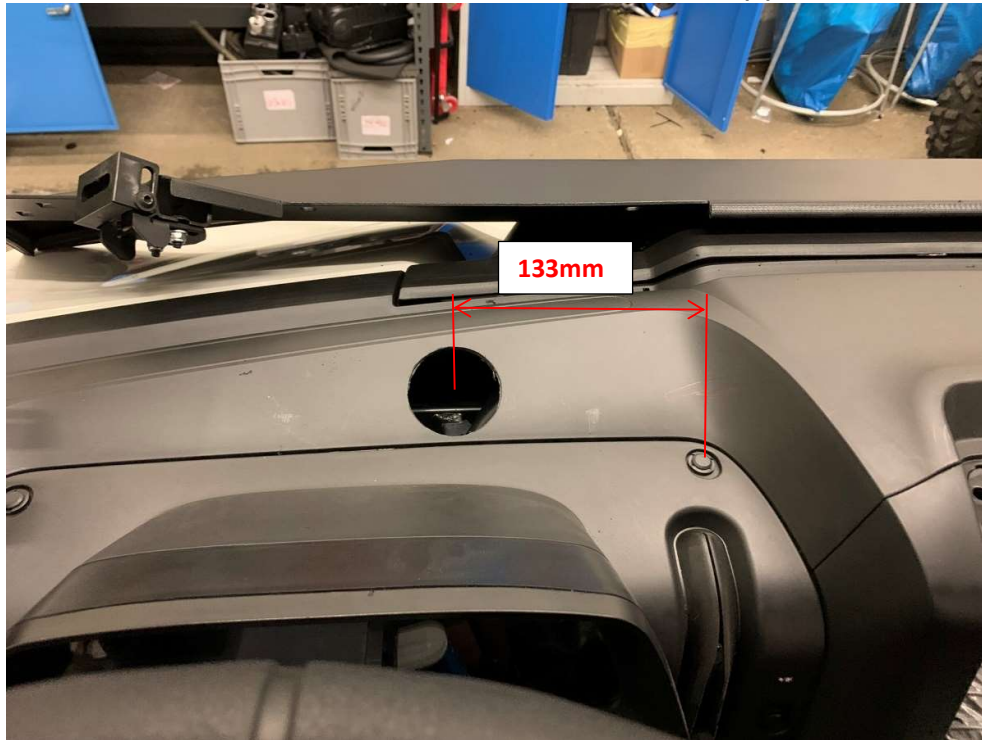
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Install the original warning sticks onto the DFK front upper ledge.
(View on installed front upper ledge)

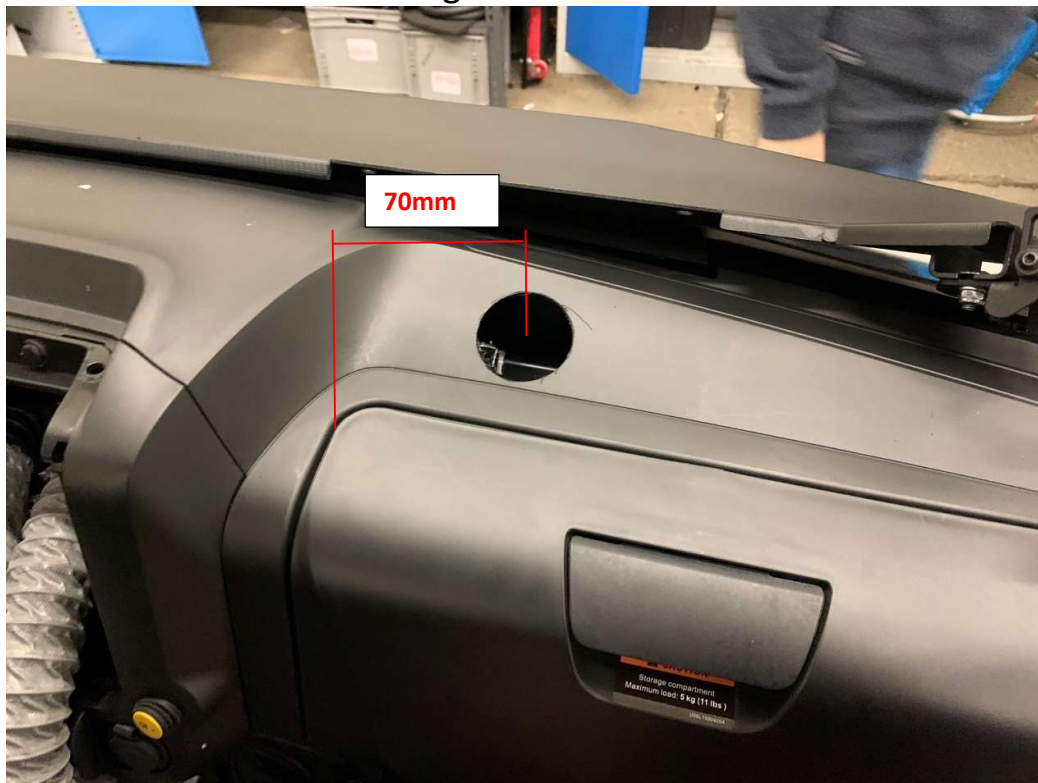


SEE NEXT PAGE

Drill 2 holes $\varnothing 55\text{mm}$ into the dashboard upper cover.



View onto the right side of the dashboard.



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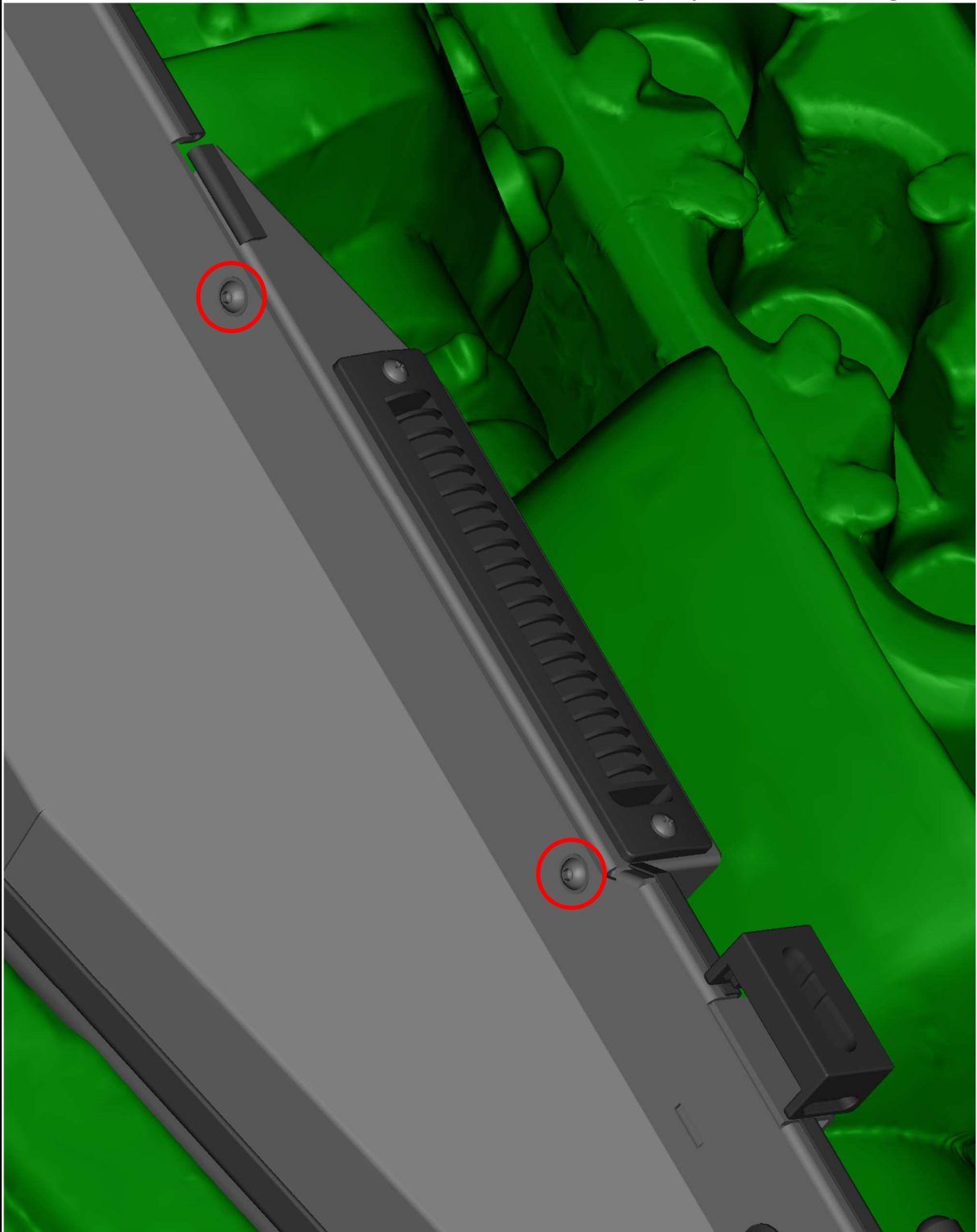
Run the air hose through the hole. Install the hose onto the air vent assembly.



View onto the right side of the dashboard.



FOR NEXT STEPS IT IS NECESSARY FRONT BOTTOM LEDGE
Fix the heater air vent cover with the front ledge by included fixing kit.



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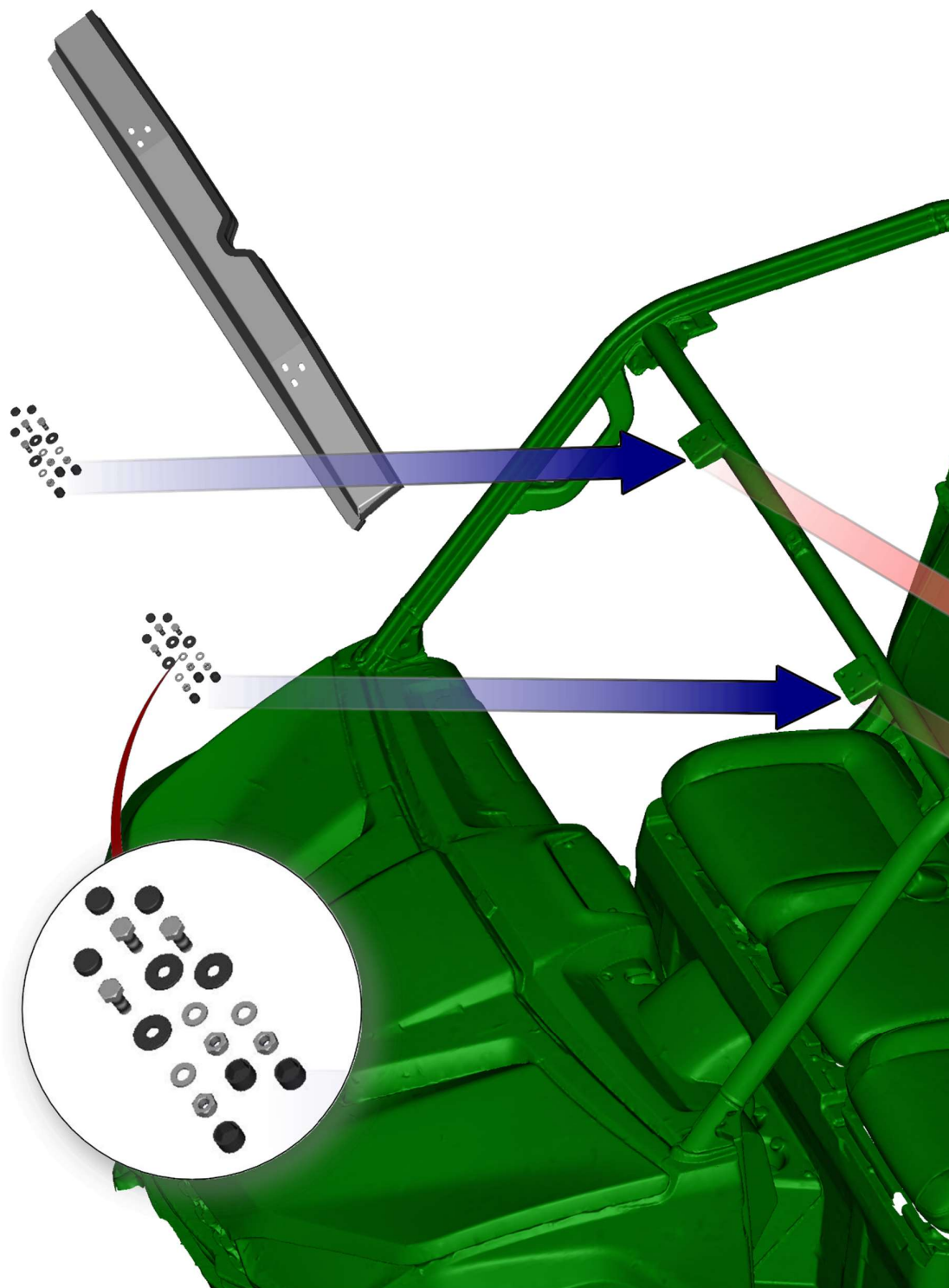
INNER SIDE VIEW



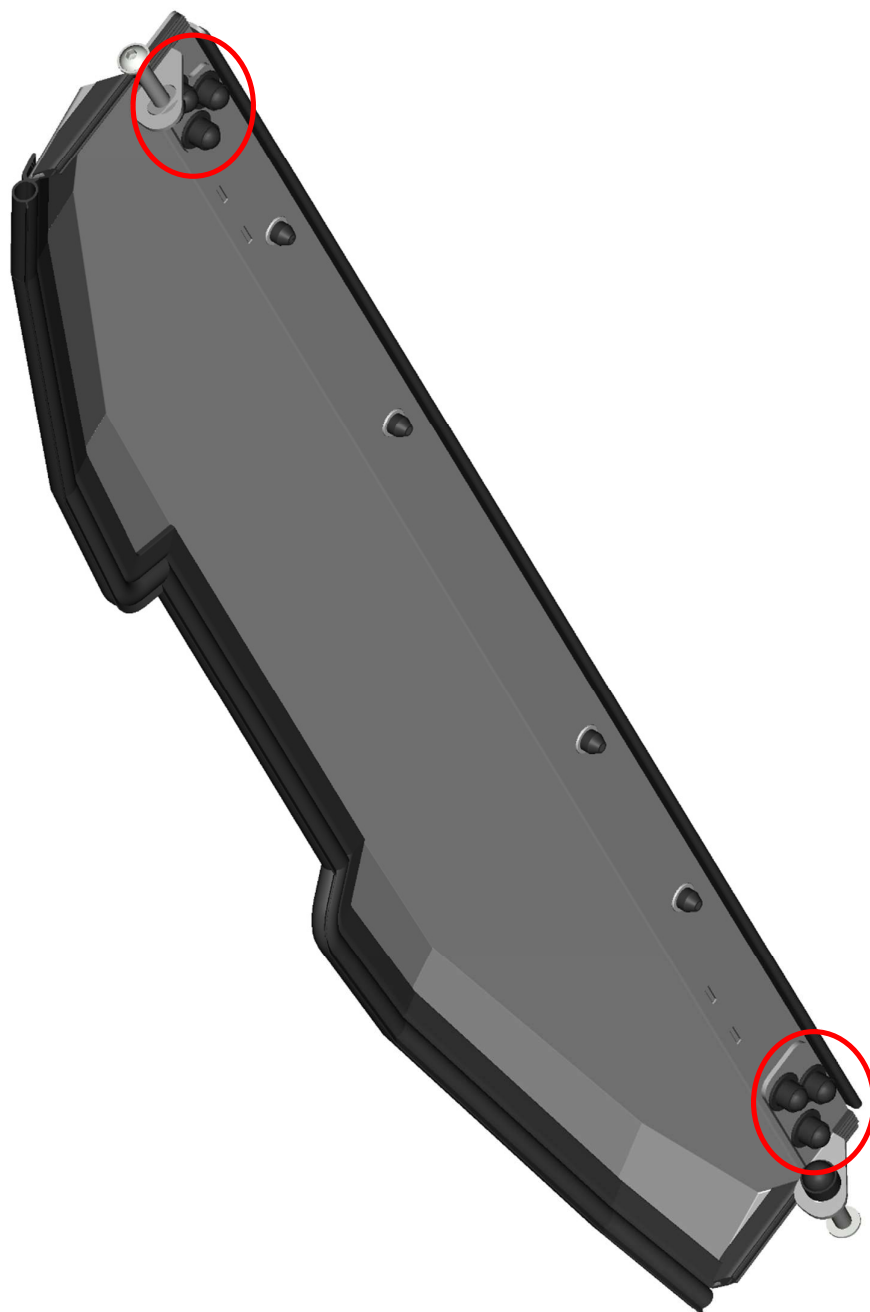
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FRONT PANEL

Place the front upper ledge onto the vehicle frame. Fix the ledge with the frame by included screws, washers, nuts and covers.



Loose the side holder screws.



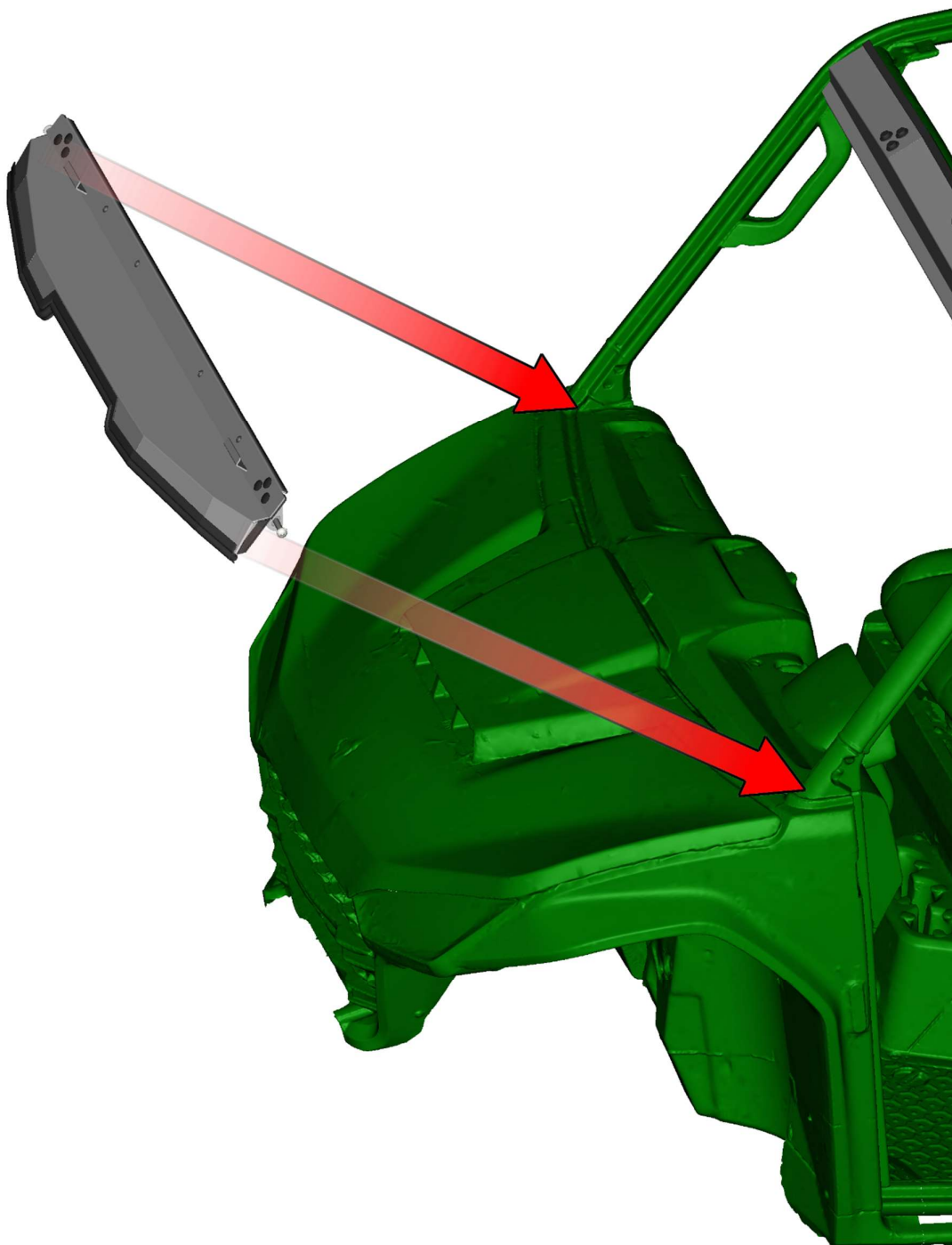
34

Uninstall the bottom original screw from both sides.



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Place the front bottom ledge onto the vehicle frame.



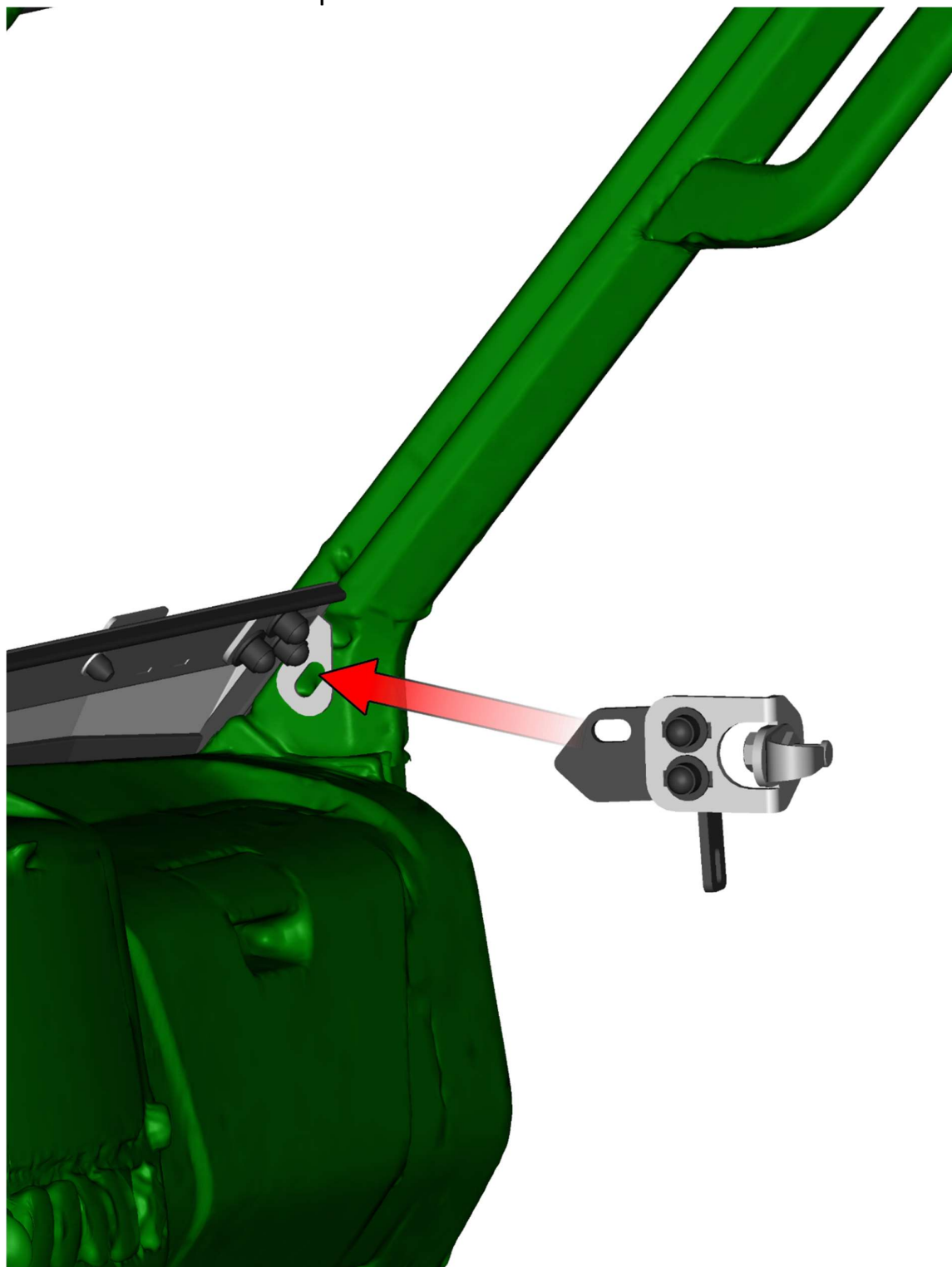
36

Uninstall original screw from the vehicle body.



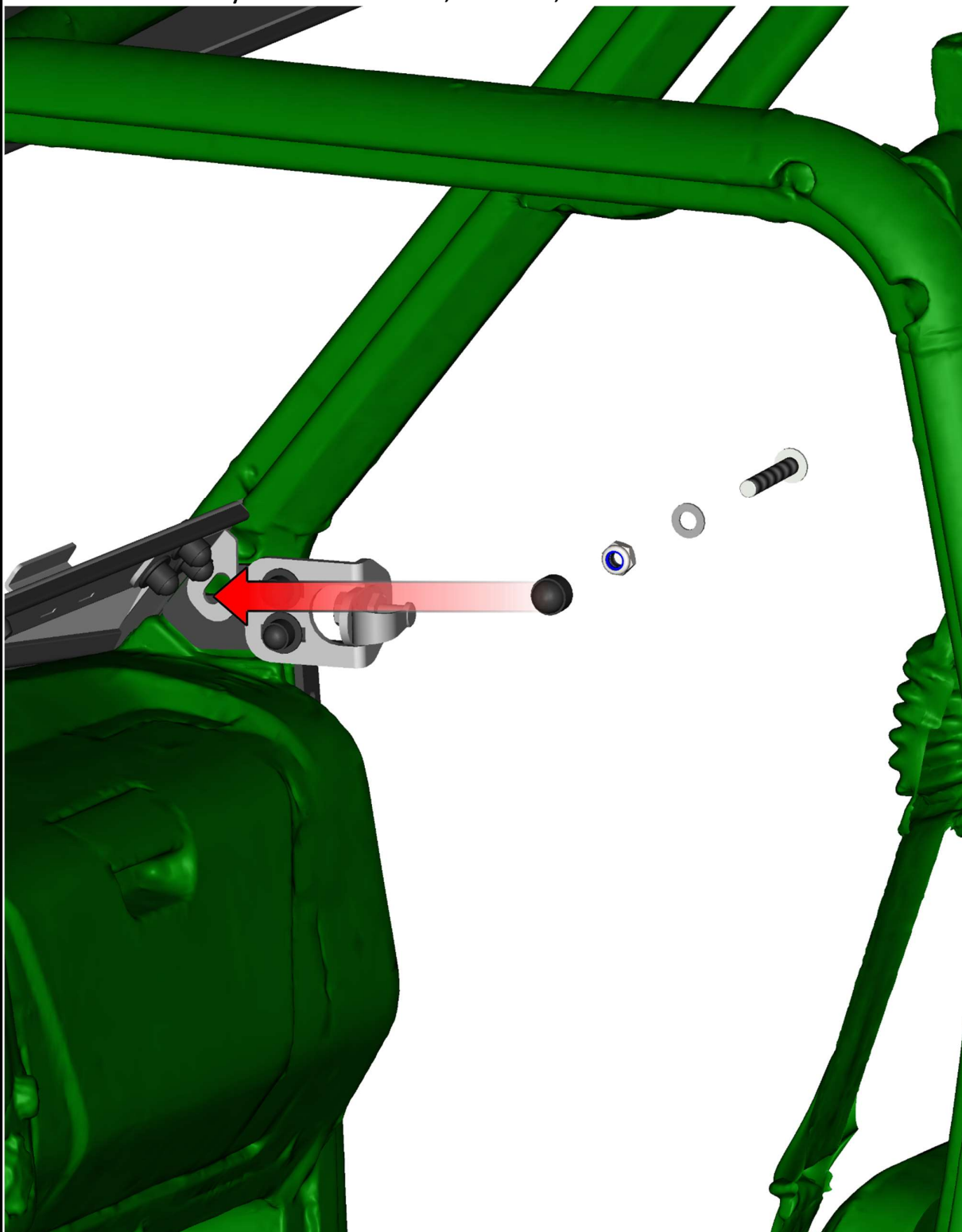
37

Insert the door stop base between the side holder and frame.



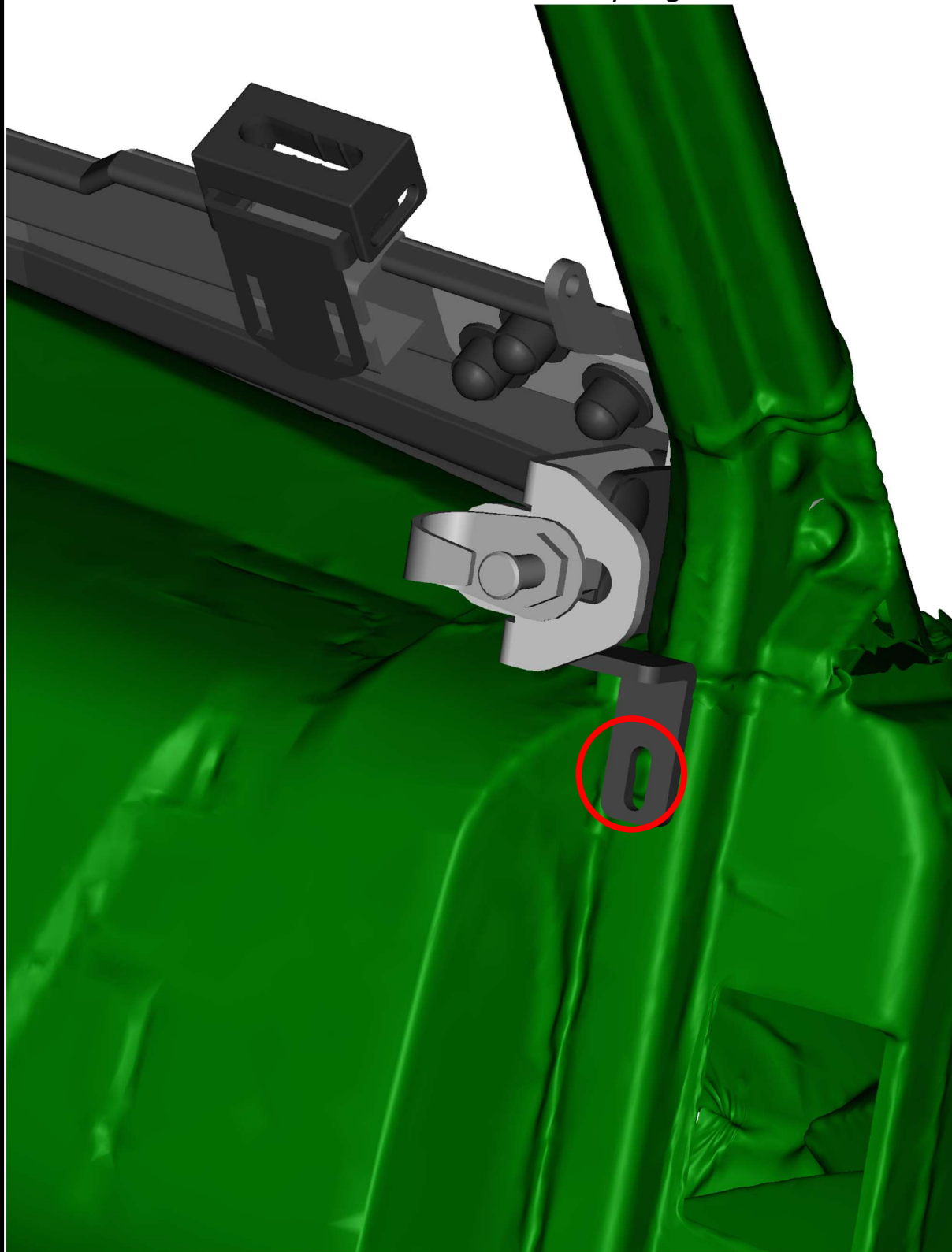
38

Fix the holder with the base to the frame
by included screw, washer, nut and cover.

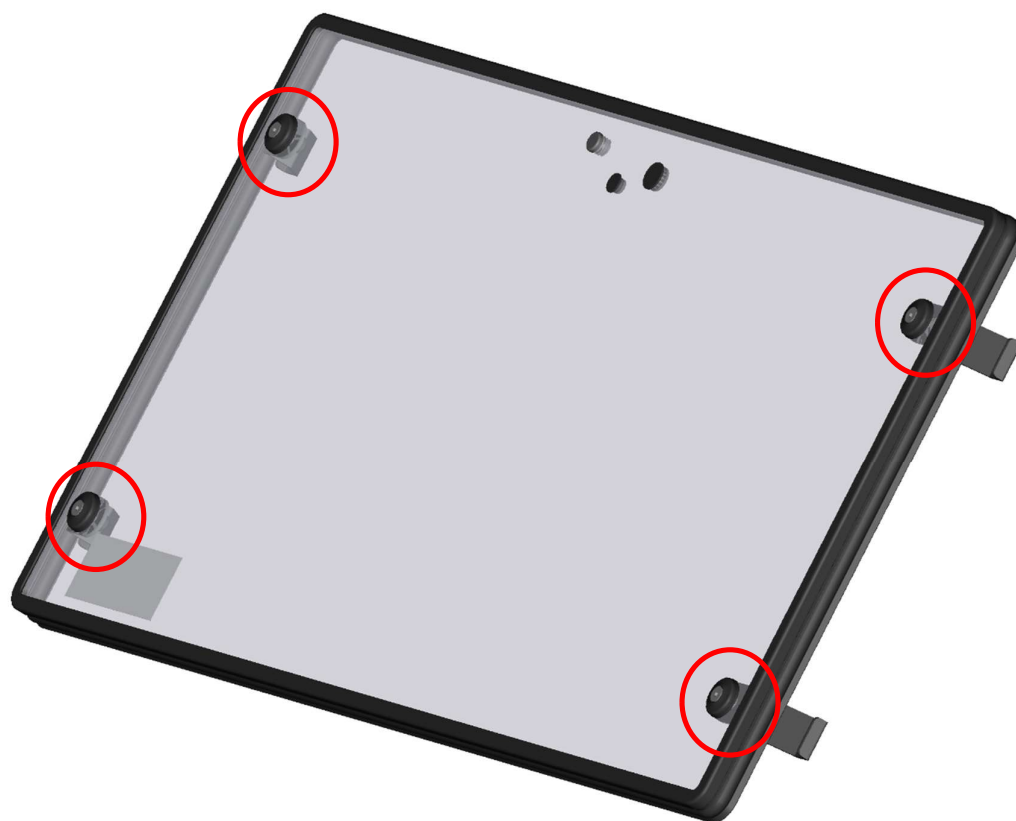


Secure the holder with the vehicle by original screw.

40

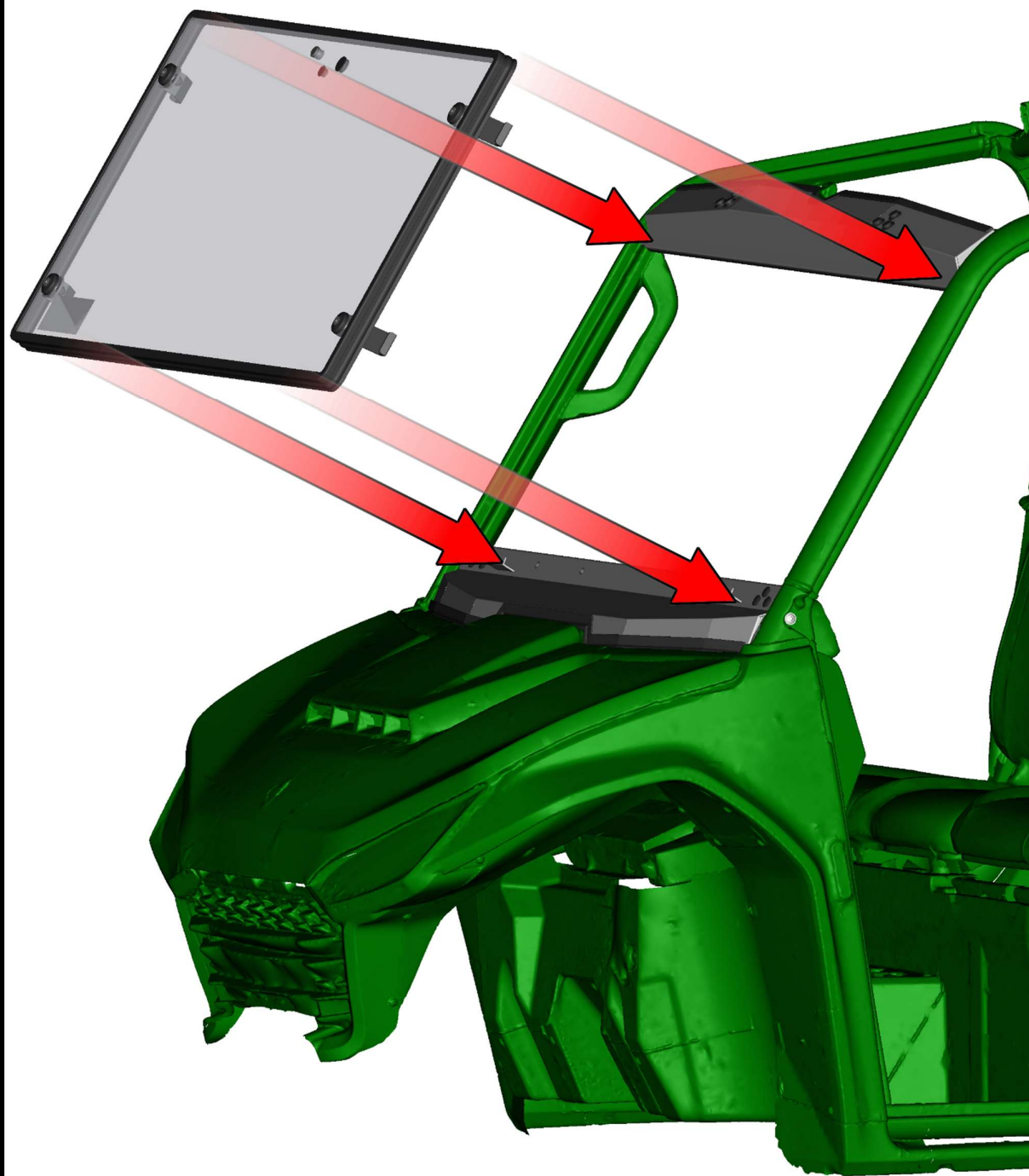


Loosen the holder screws and turn the holders to the neutral position.



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Place the front window onto the upper ledge and onto the bottom ledge.



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Adjust the holders to the correct position and tighten holder screws.



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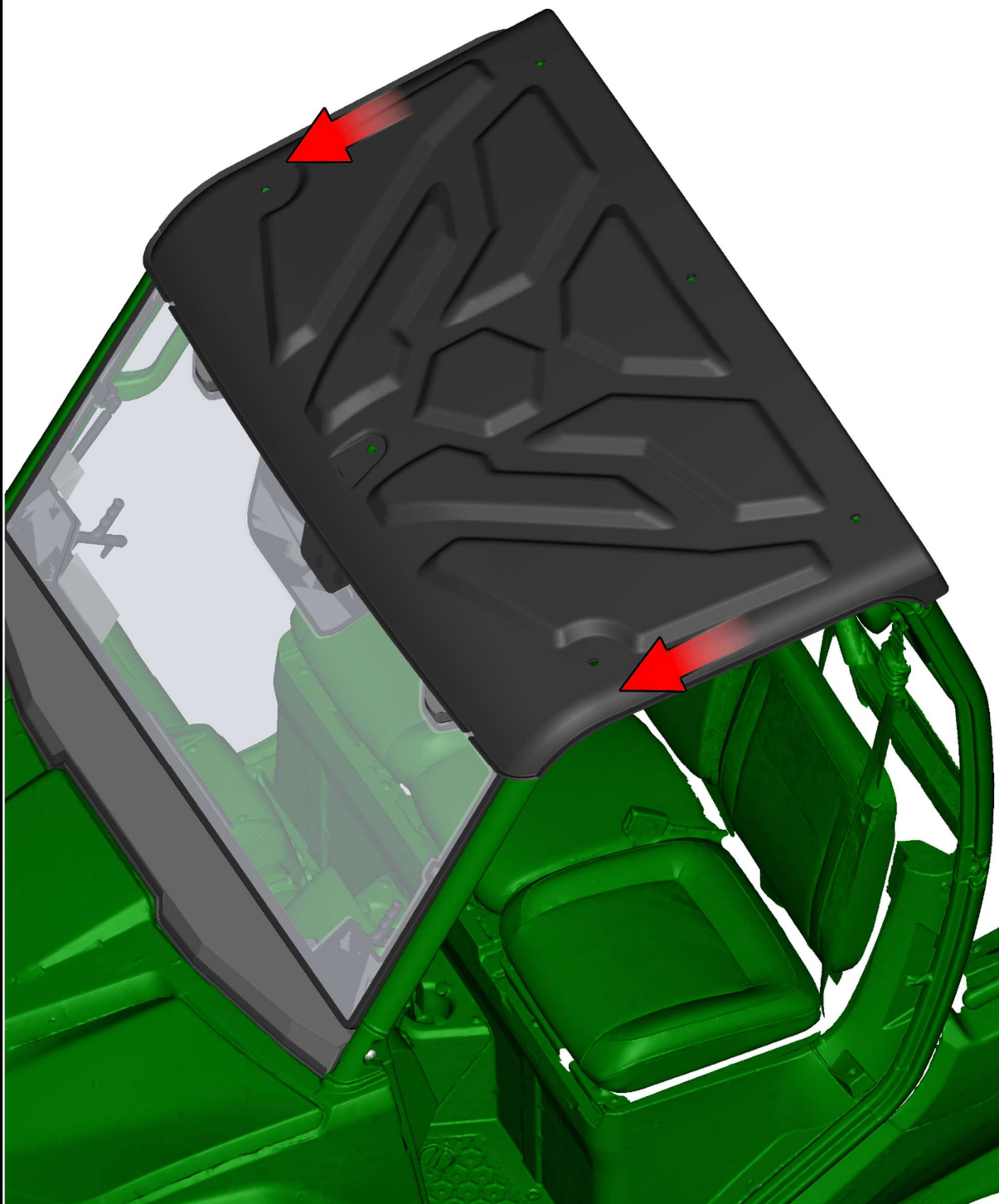
ROOF 1.

Place the roof onto the vehicle frame.



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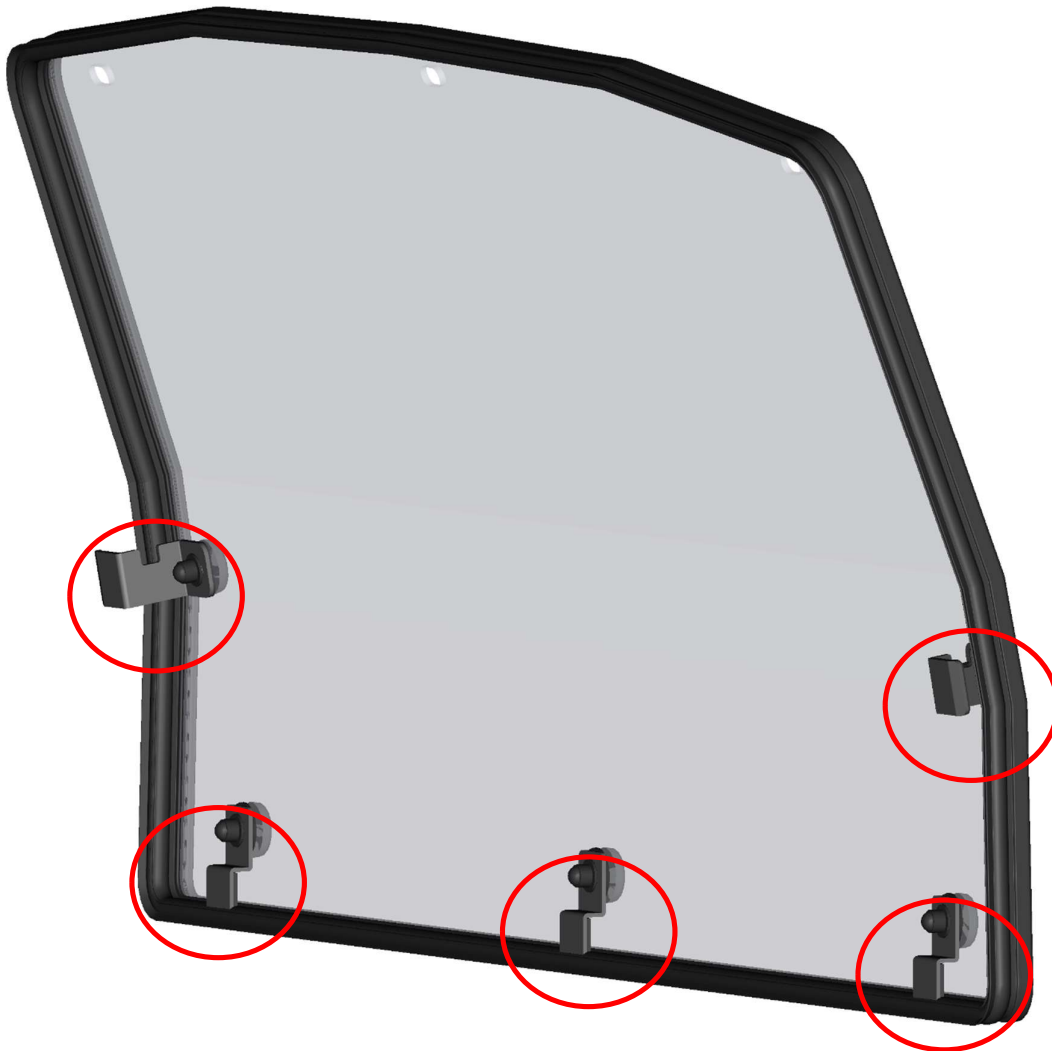
Push the roof to the front side.



45

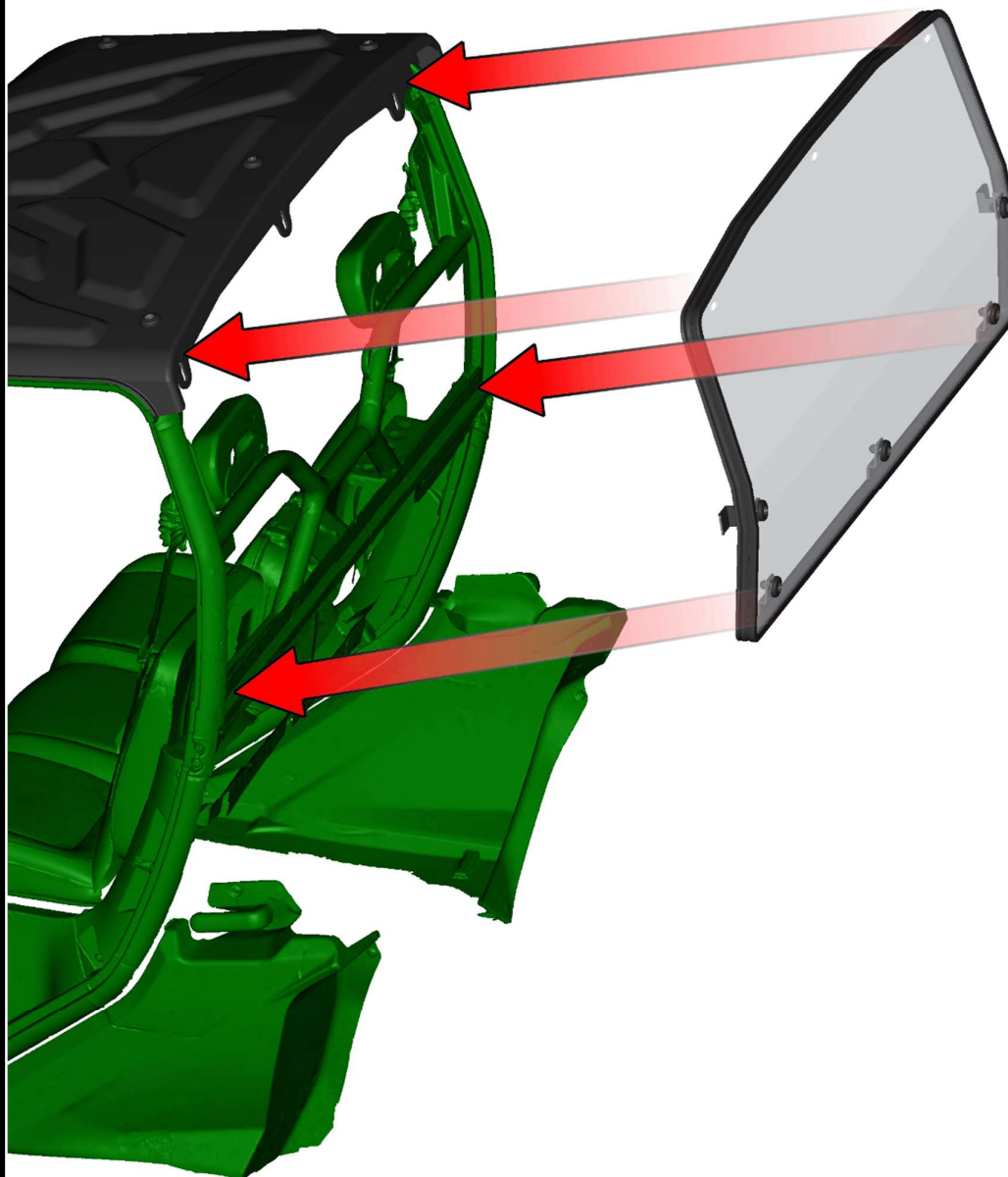
REAR PANEL

Loose the holder screws and turn the holders to the neutral position.



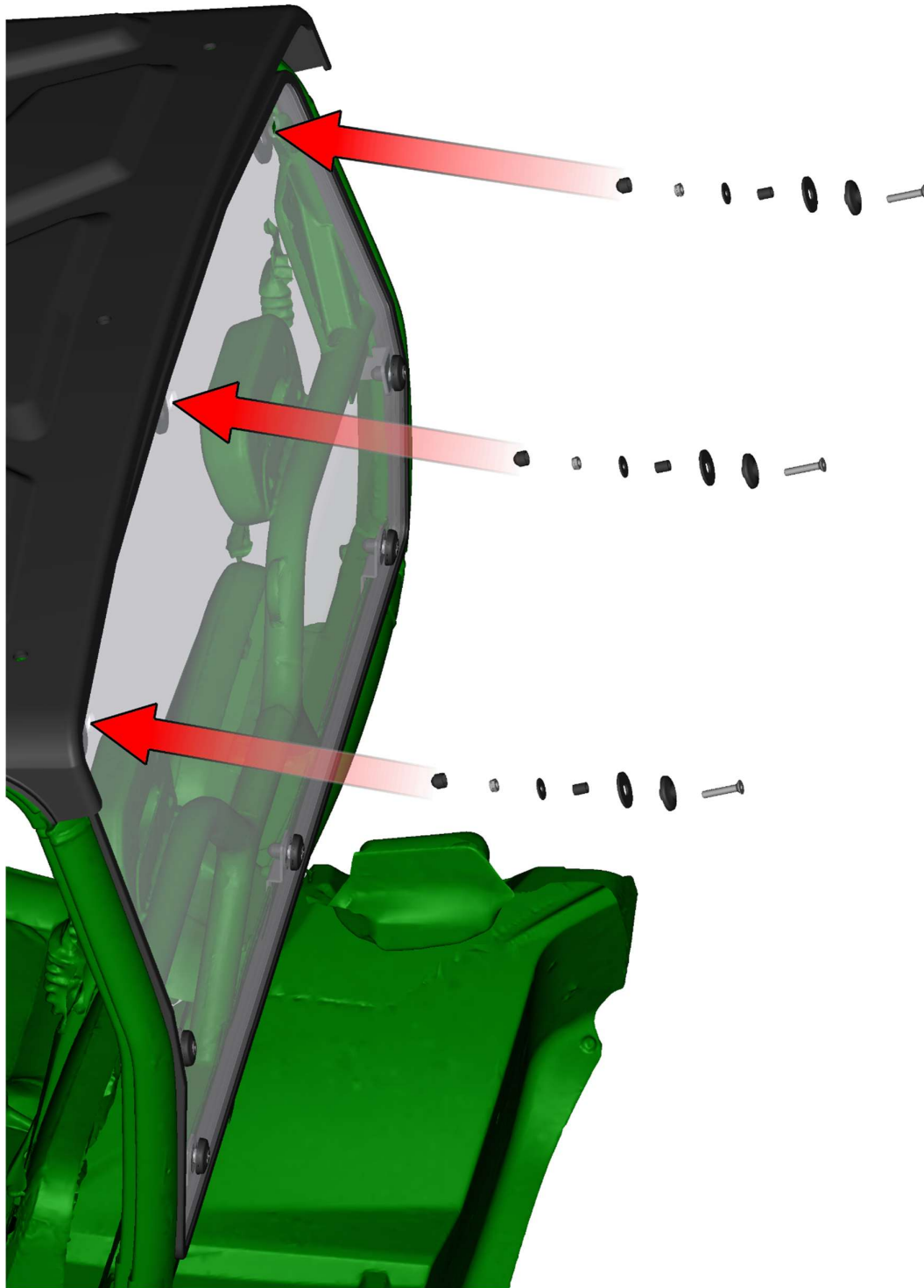
46

Place the rear panel onto the roof and onto the vehicle frame.



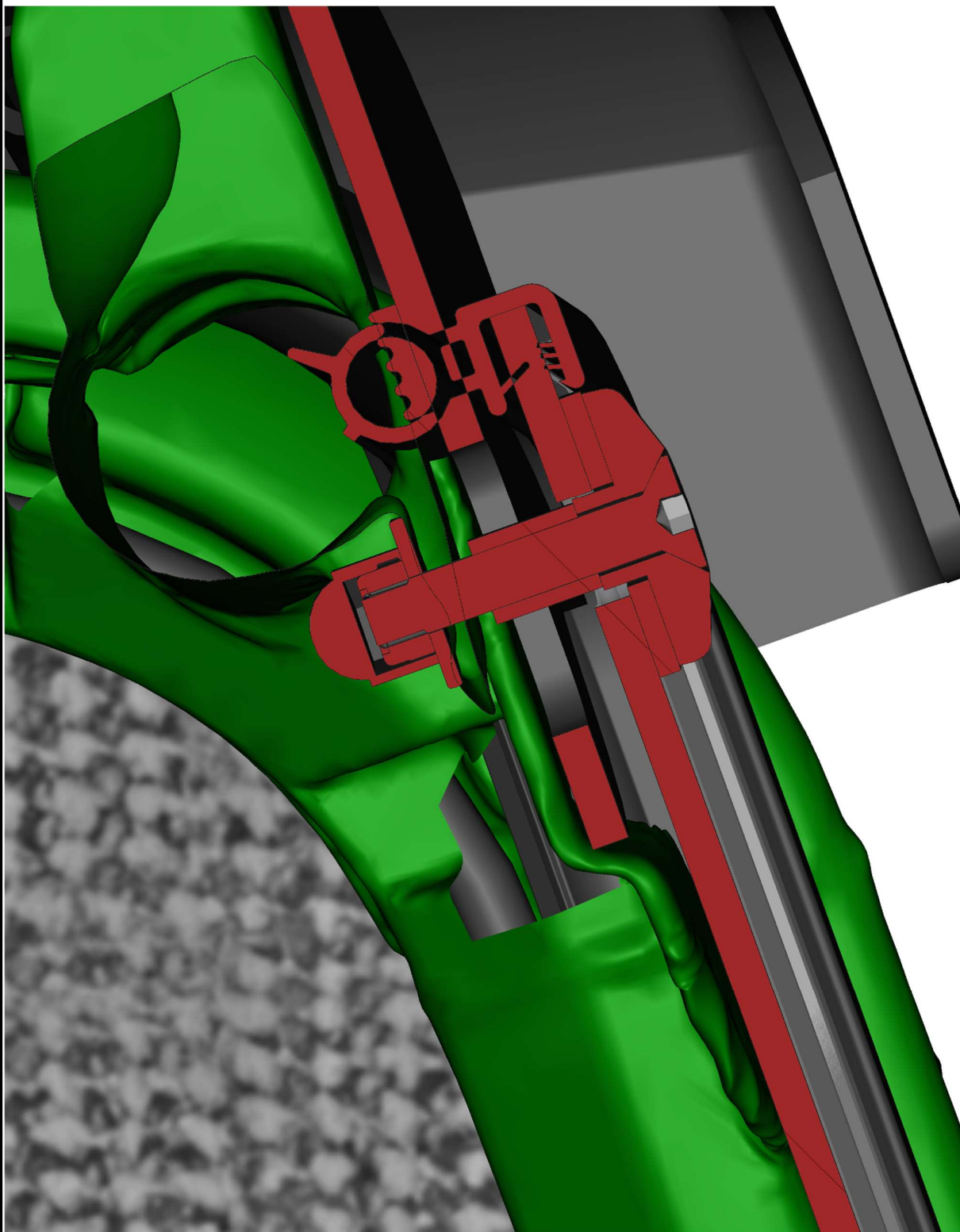
47

Fix the rear poly with the roof by included screws, washers, distance tubes, nuts and covers. SEE NEXT PAGE



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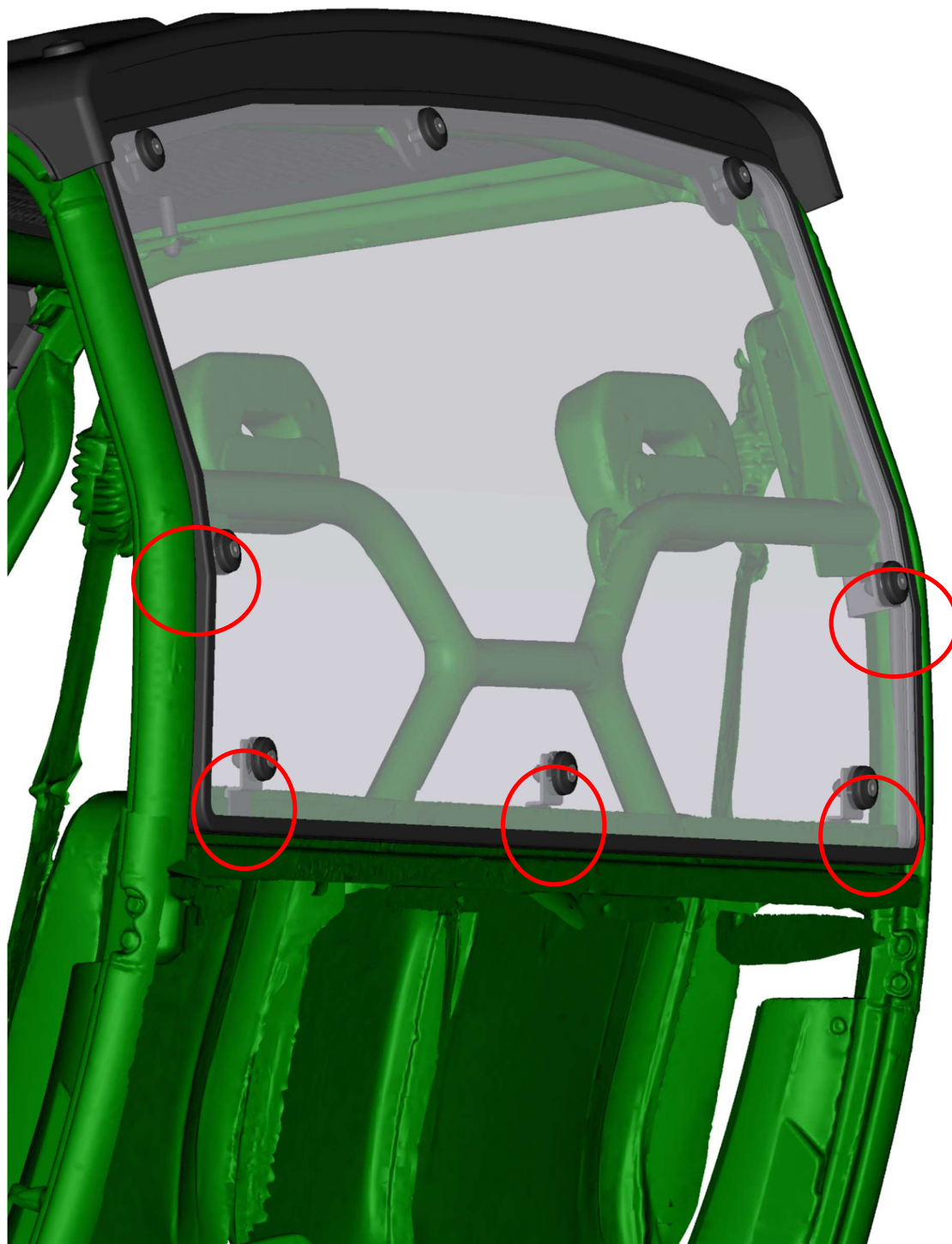
CUTTING VIEW OF THE CONNECTION



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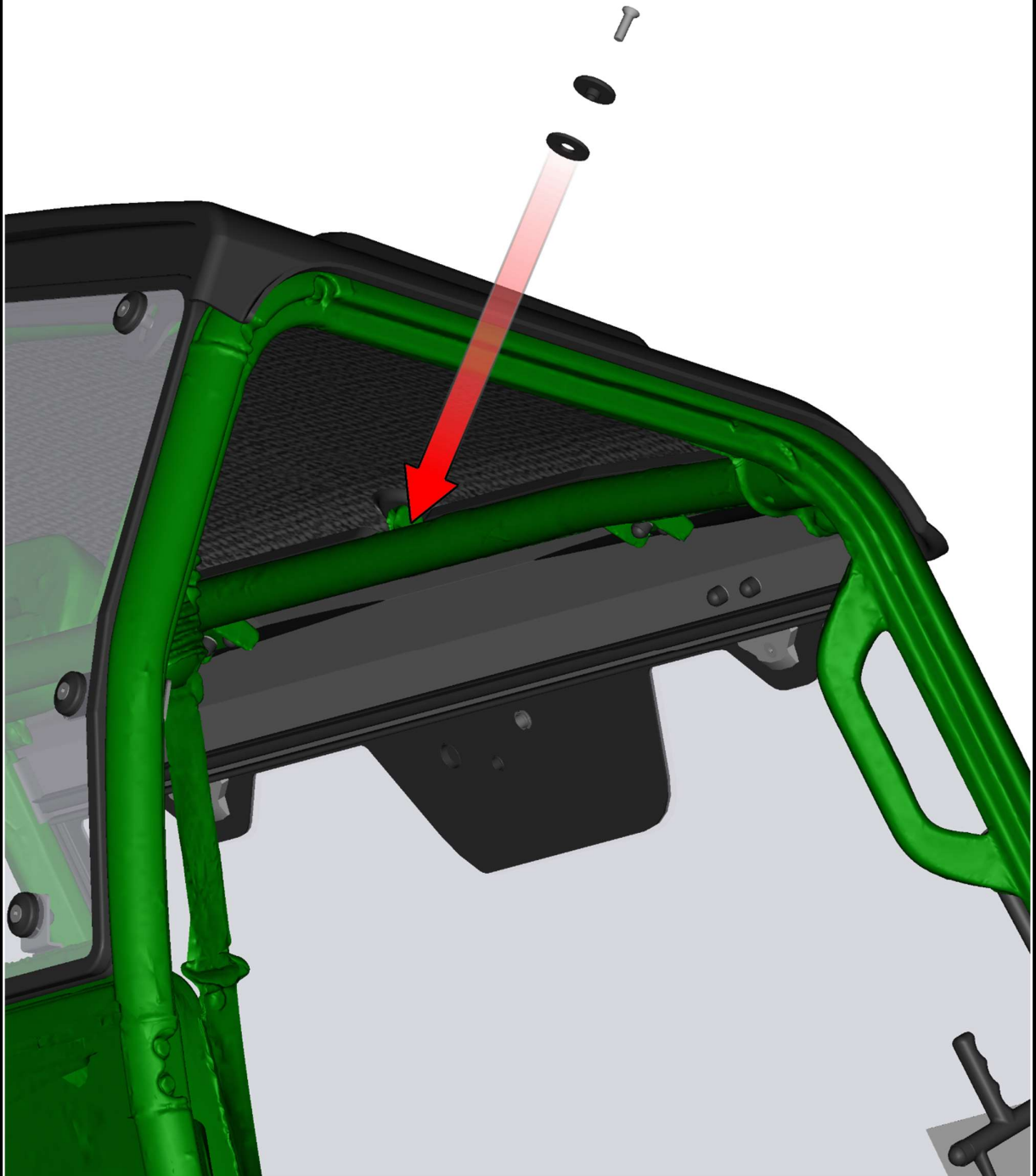
Turn the holders to the correct position and tighten screws easy.

50



ROOF 2.

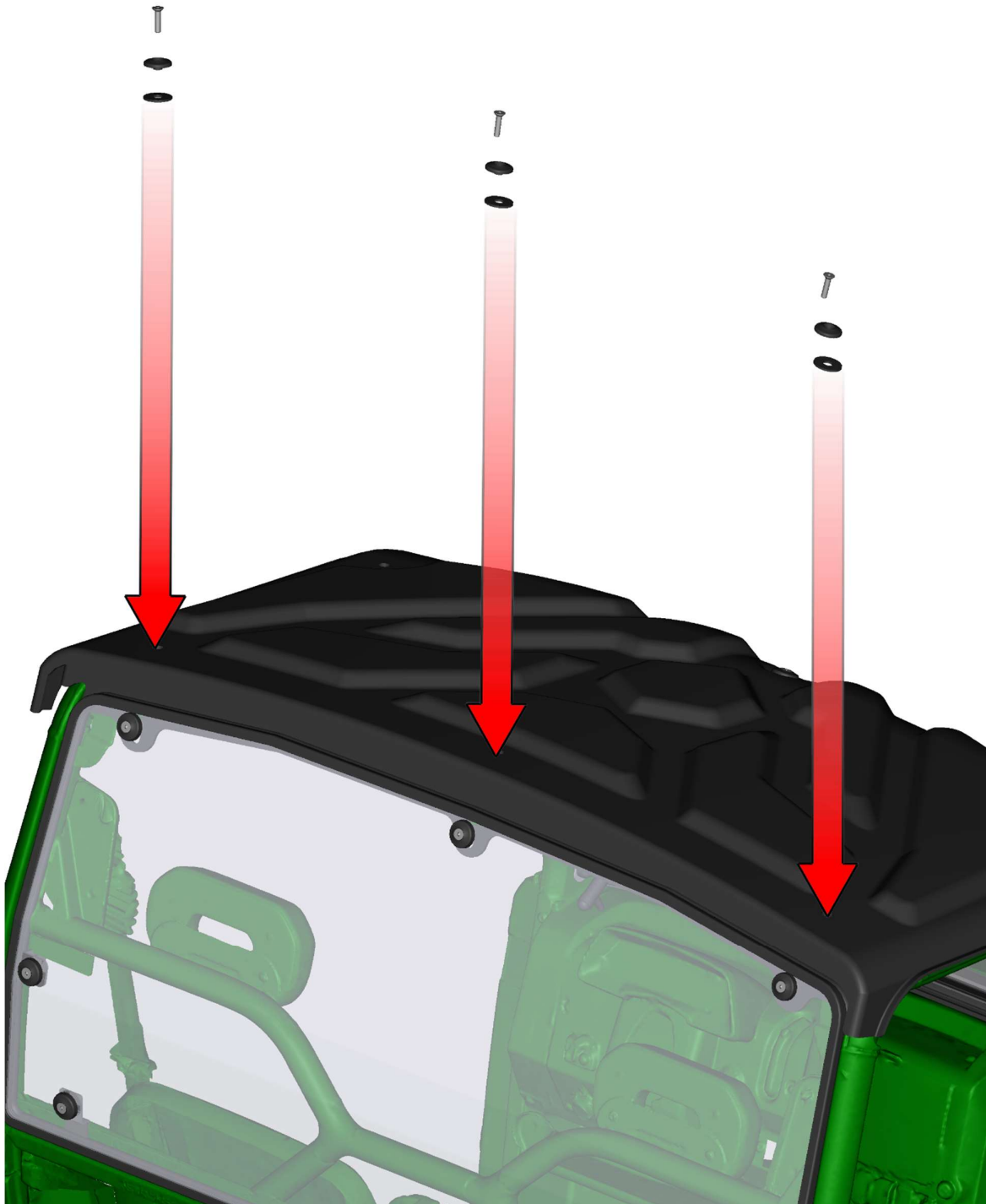
Fix the roof with the frame by included screw and washers.



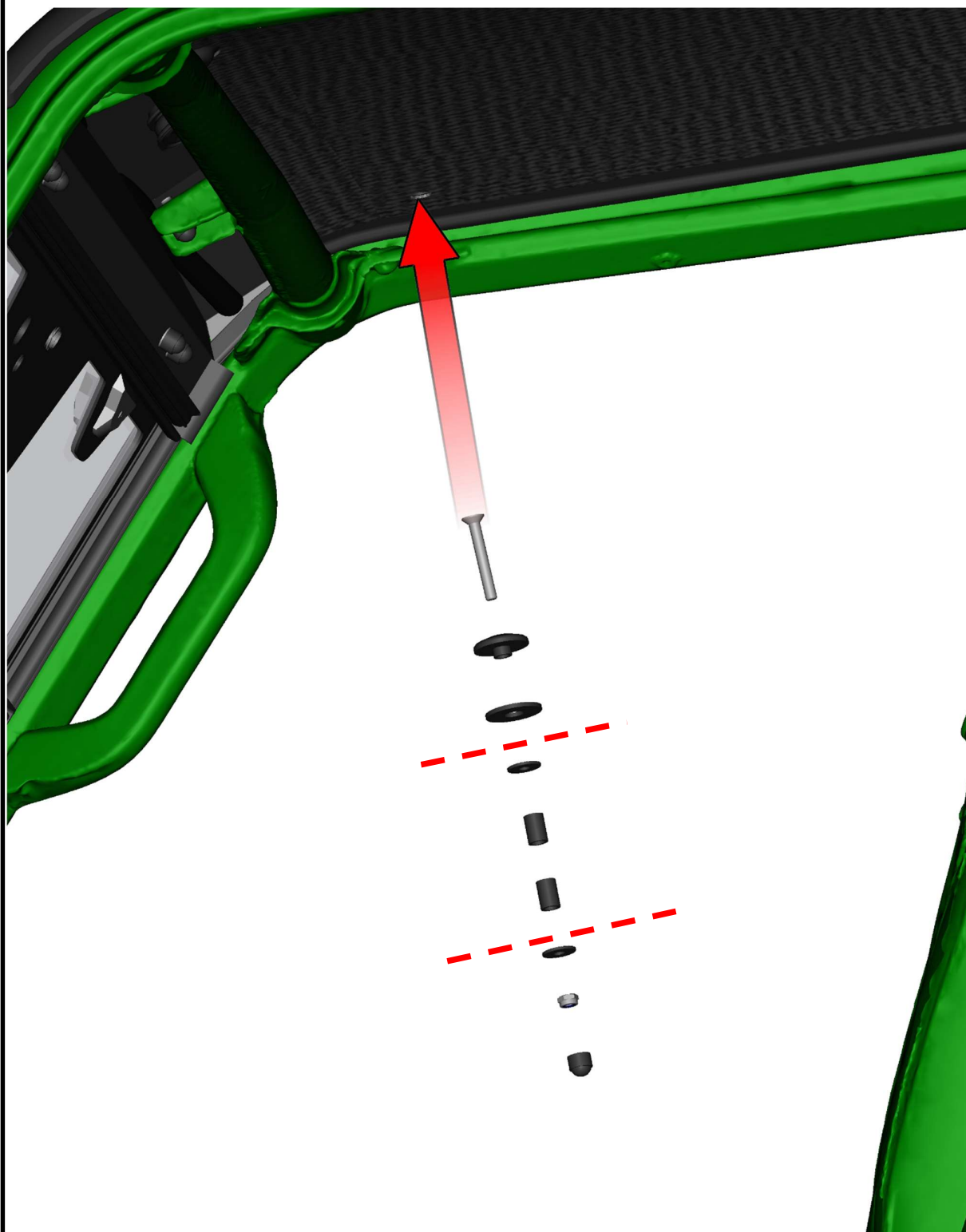
51

Fix the roof with the frame by included screws and washers.

52



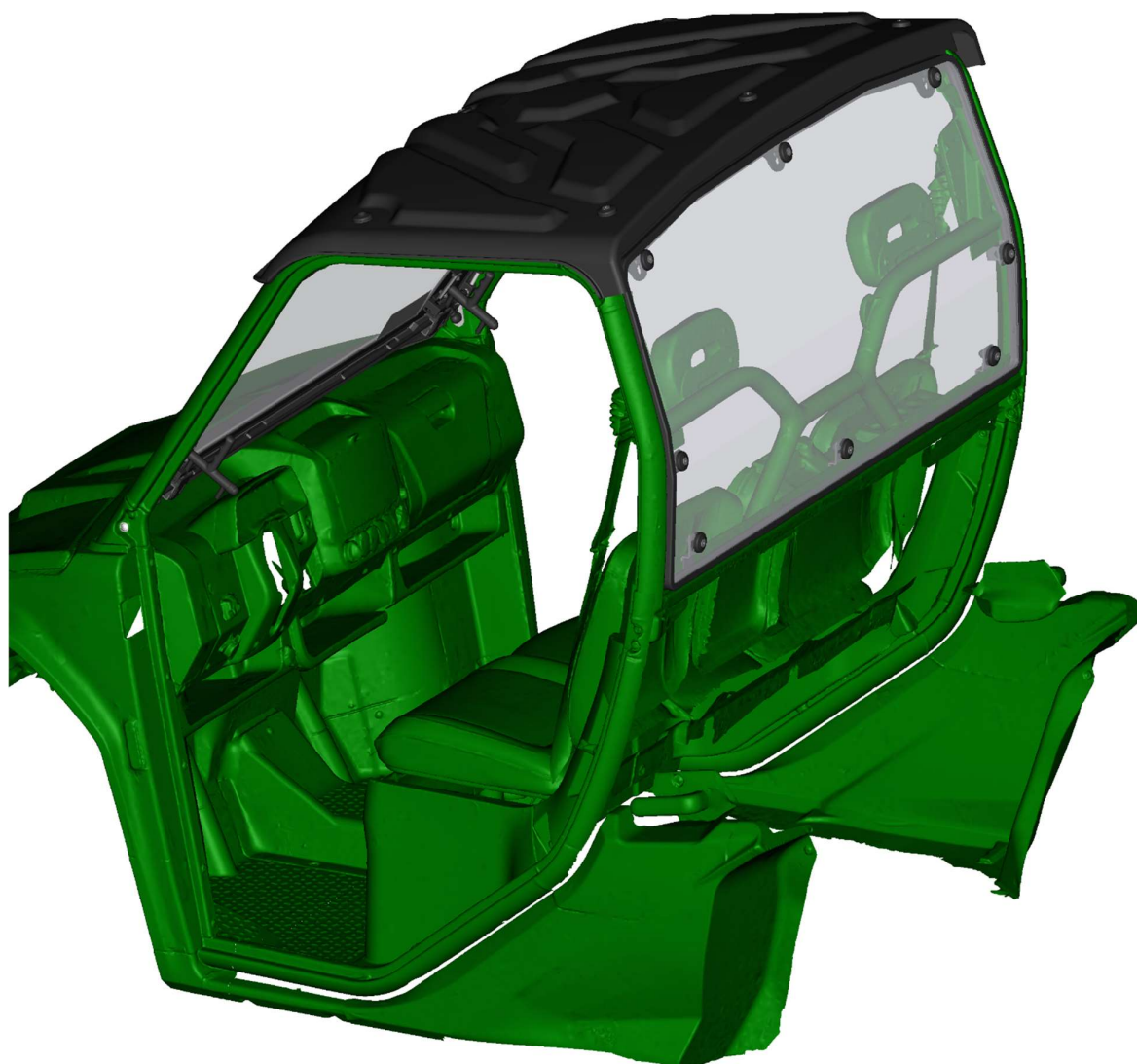
Fix the roof with the frame by included screws, washers, distance tubes, nuts and covers.



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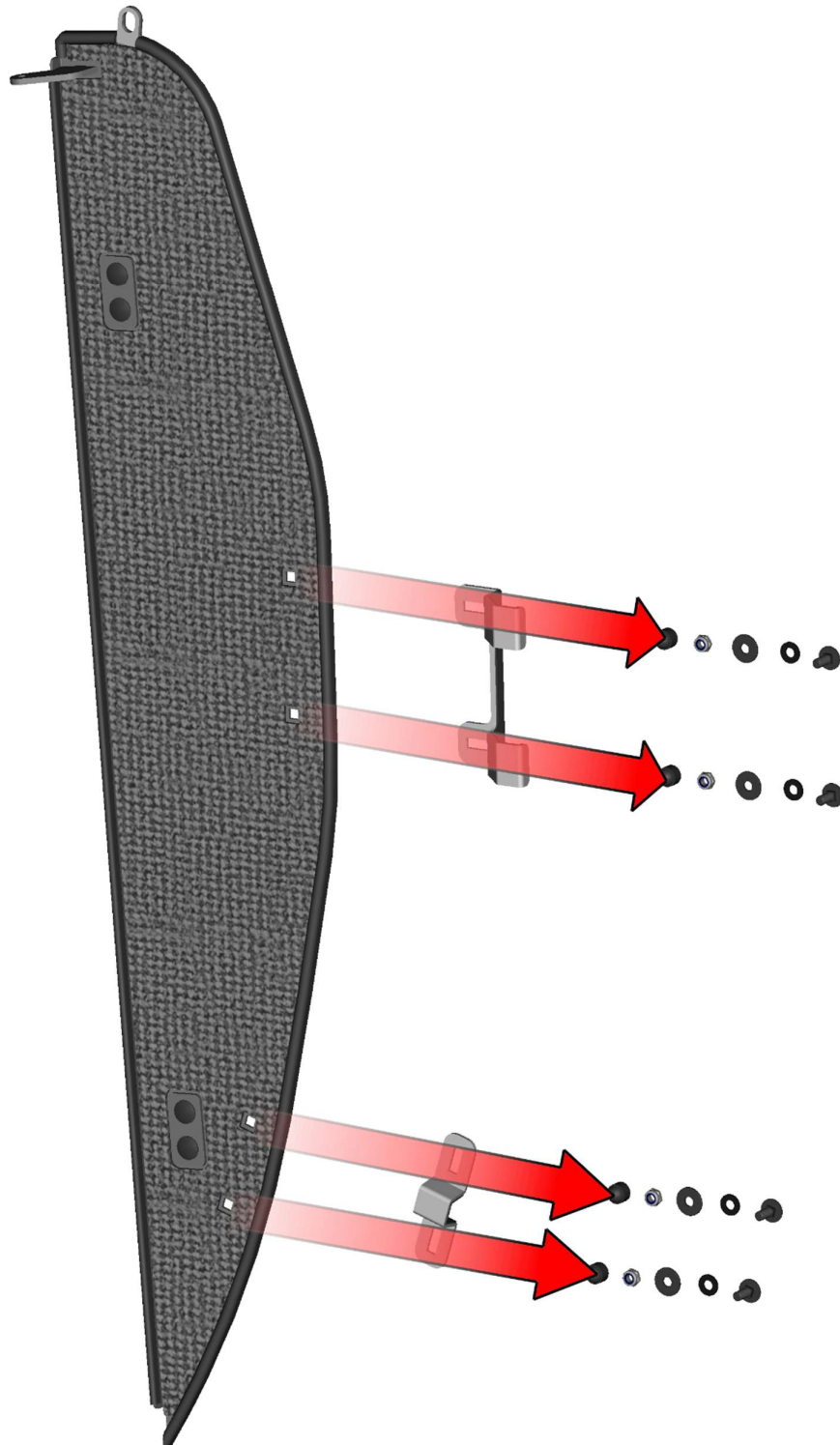
Tighten all screws and nuts correctly.

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LEFT DOOR + RIGHT DOOR

Take out the door base holders, save the holders for later usage.



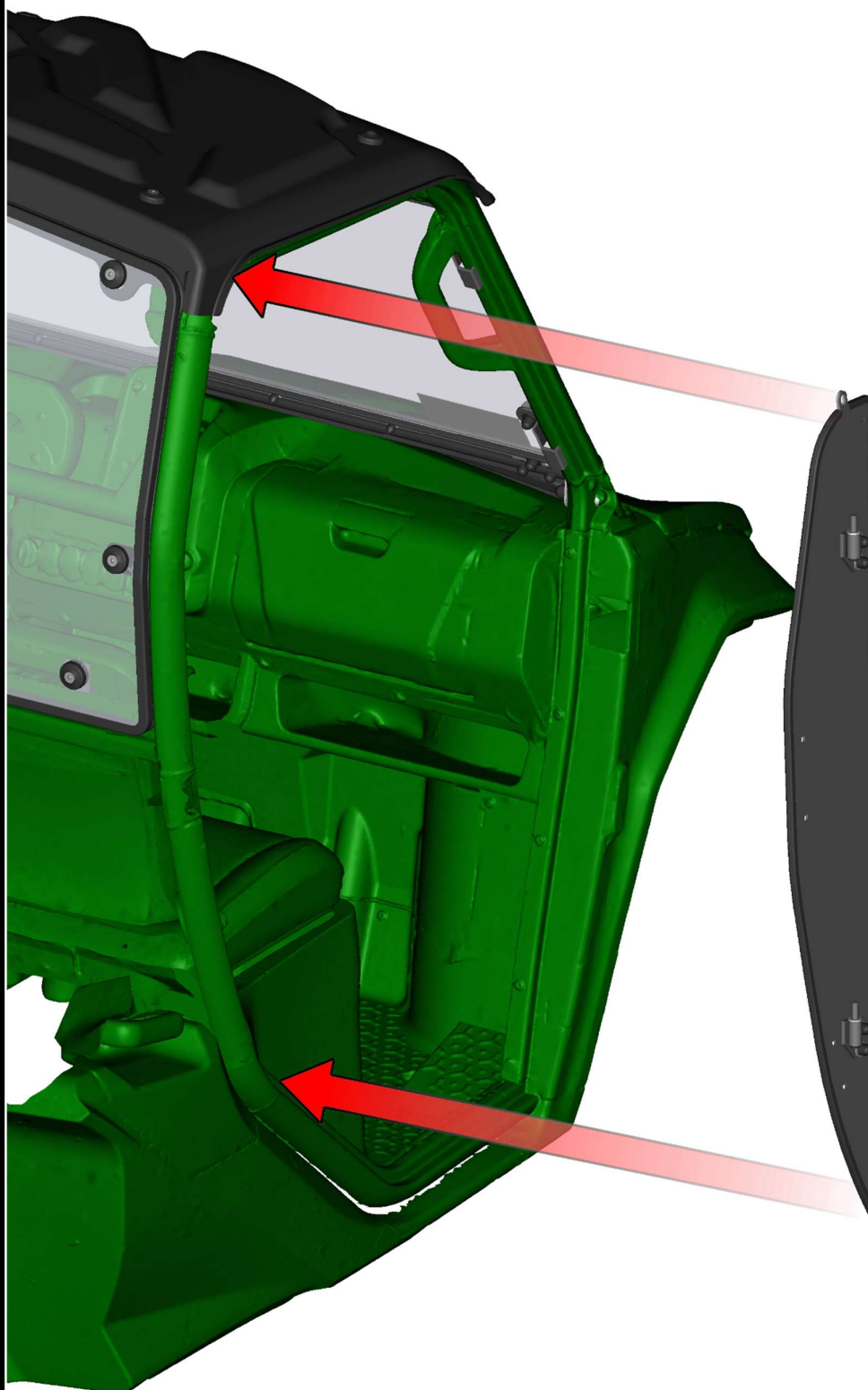
55

Loosen the original screw from the vehicle frame.
Save the original screw for later usage.



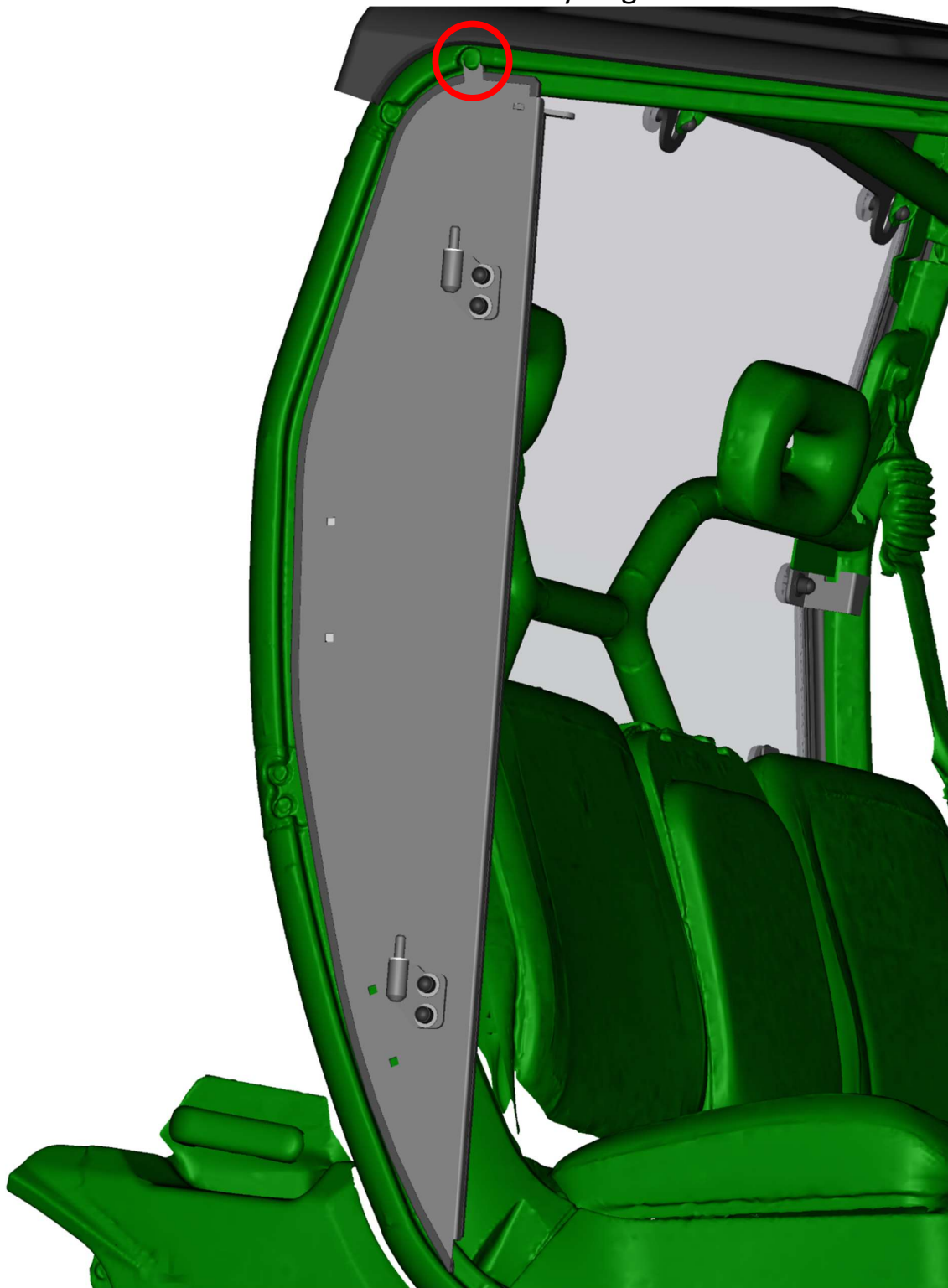
56

Place the door base onto the vehicle frame.



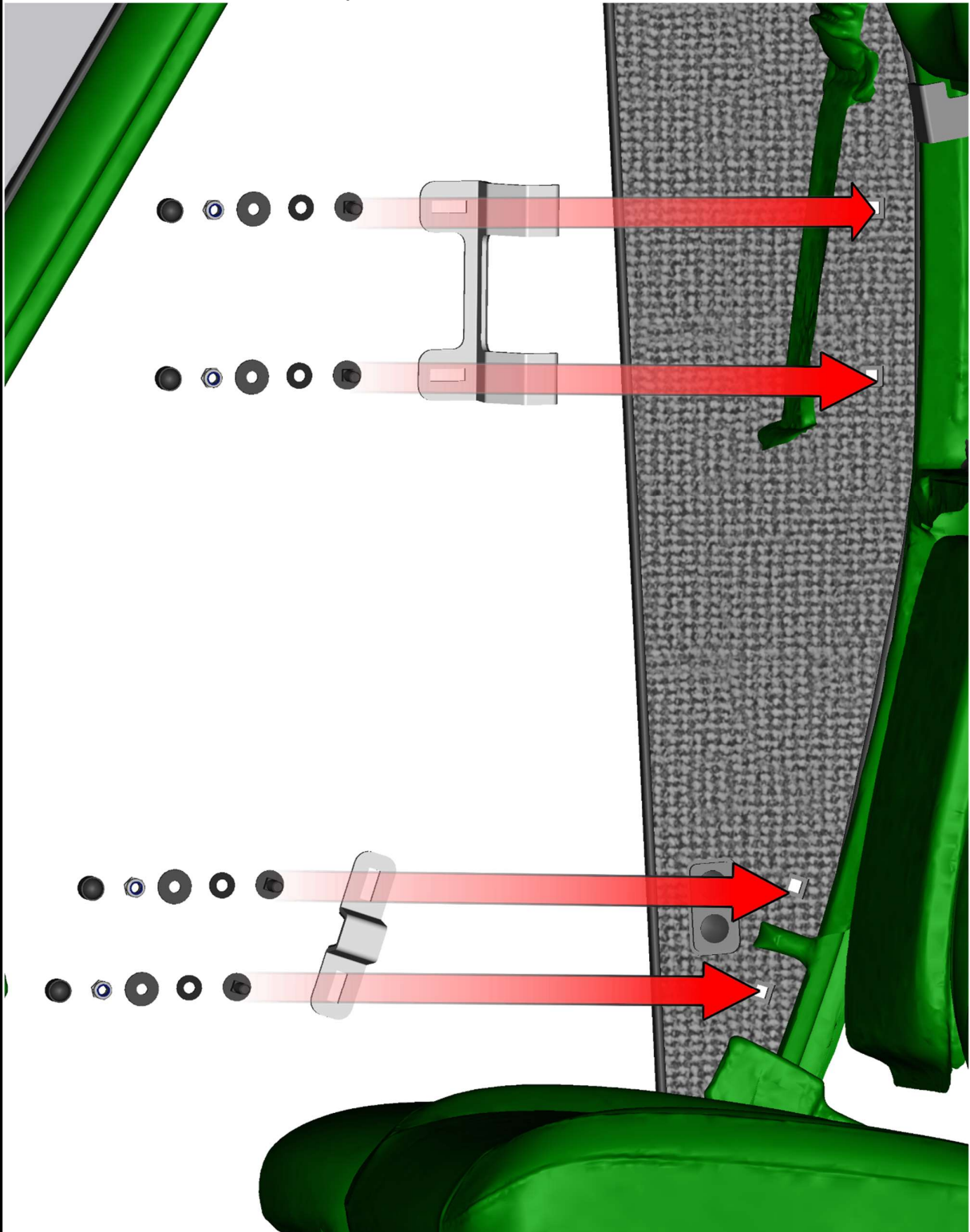
57

Fix the base with the frame by original screw.



58

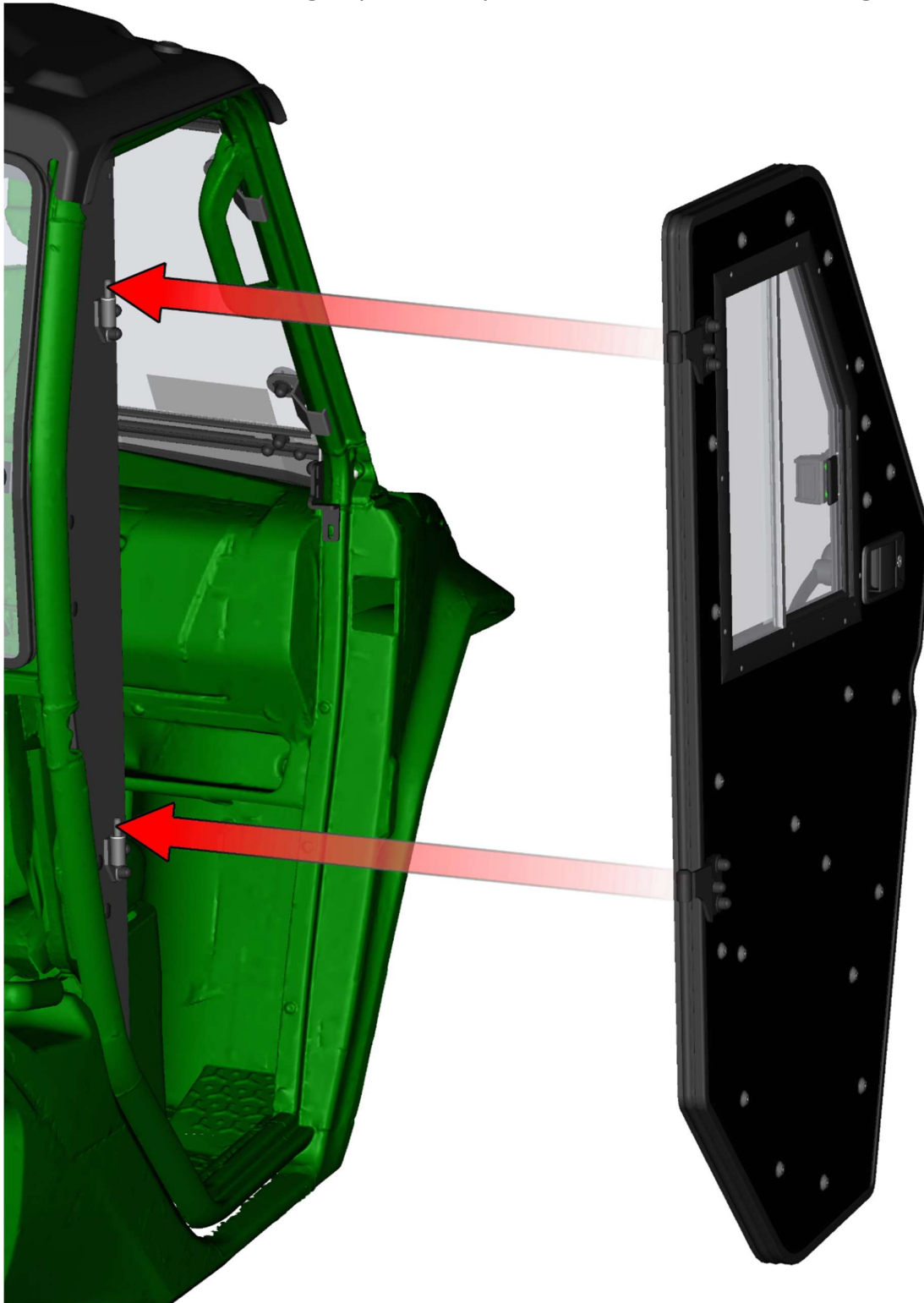
Place the door base holders onto the base and onto the frame. Fix the holder with the base by included screws, washers, nuts and covers.



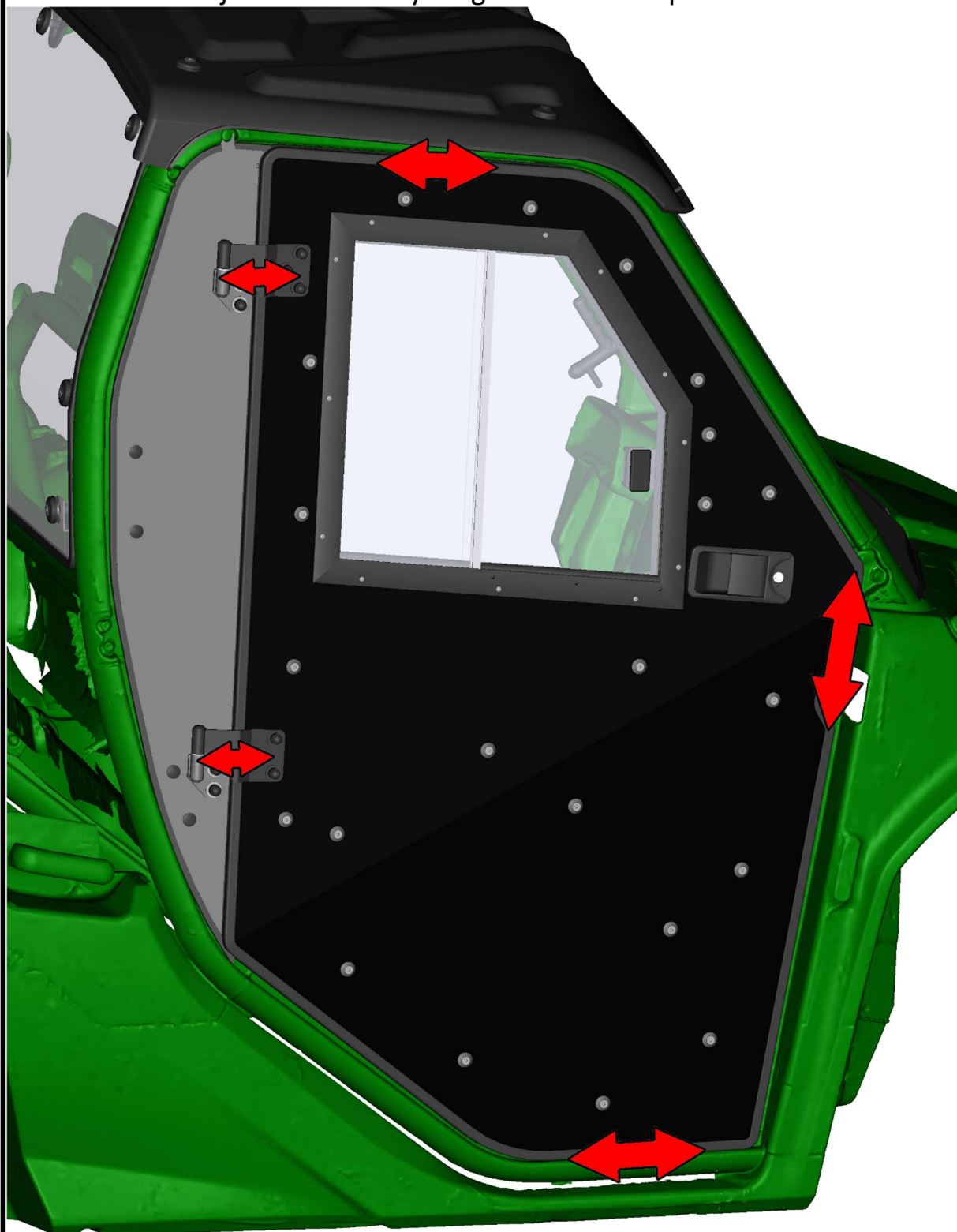
59

Lubricate the hinges pins and place the door onto the hinges.

60



Adjust the door by hinges to the best position.

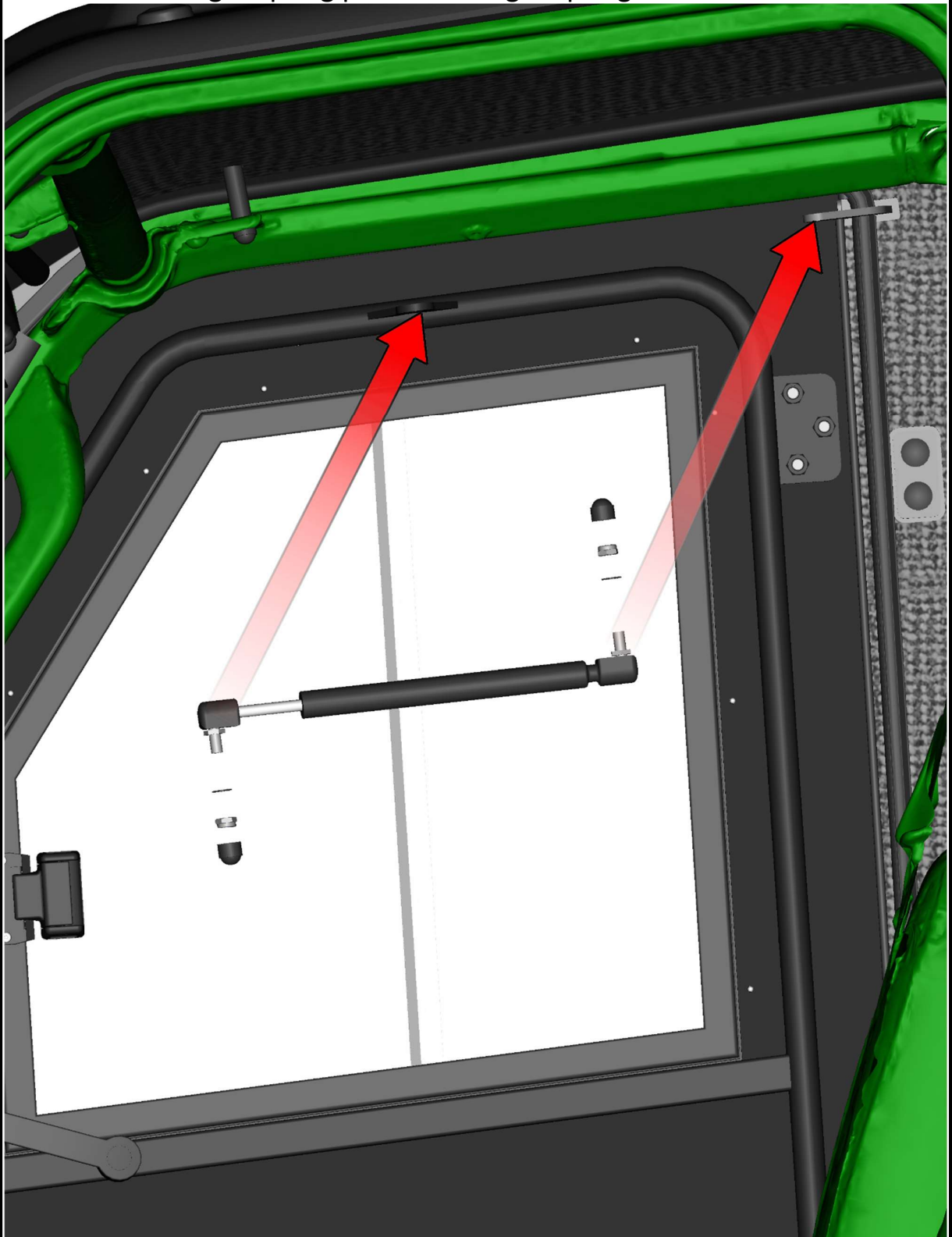


61

Adjust the door stop holder and door stop pin to the best position.
If you adjust the door stop correctly and close the door slowly you can
hear two metallic clicks.



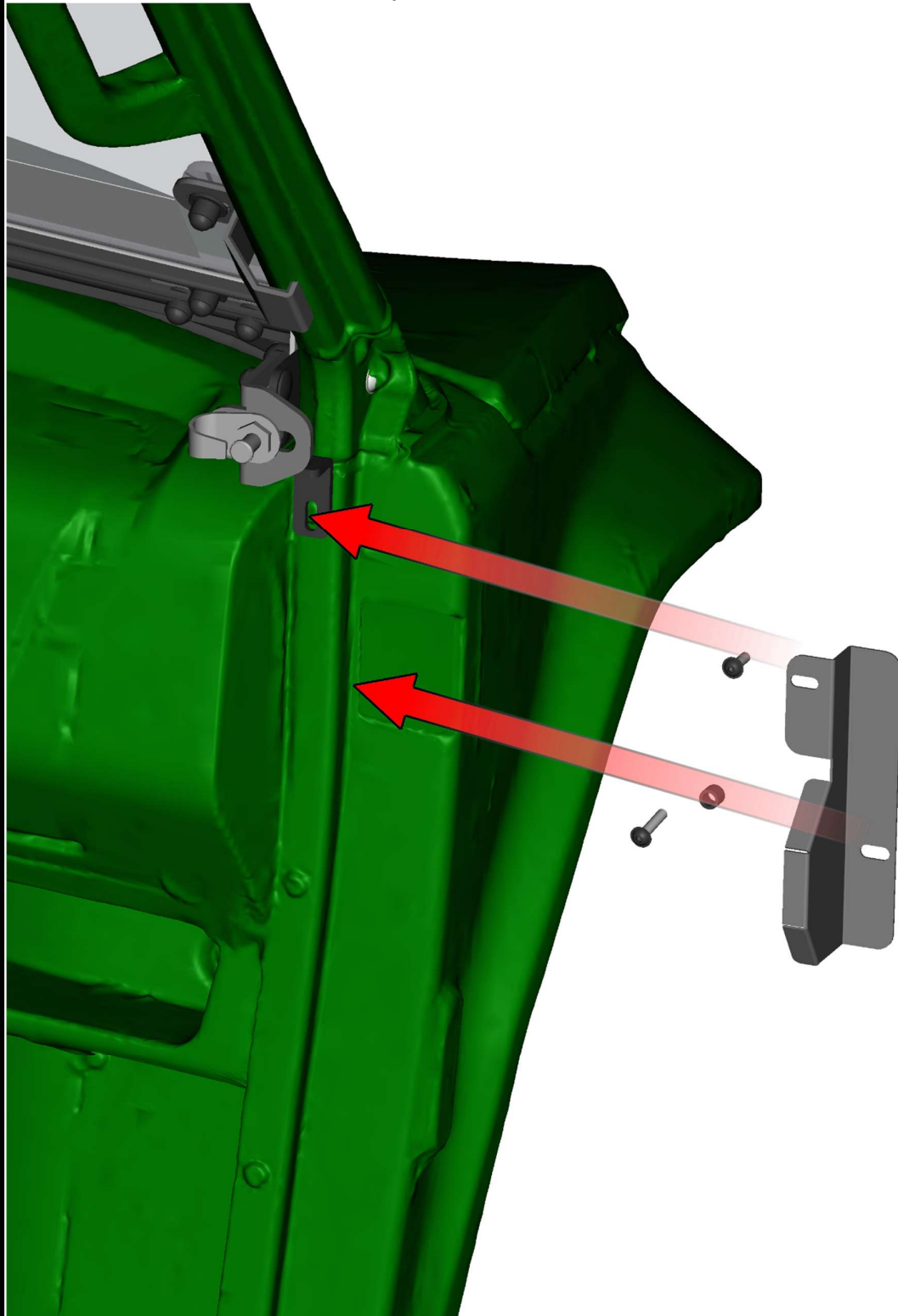
gas spring pin onto the gas spring holders.



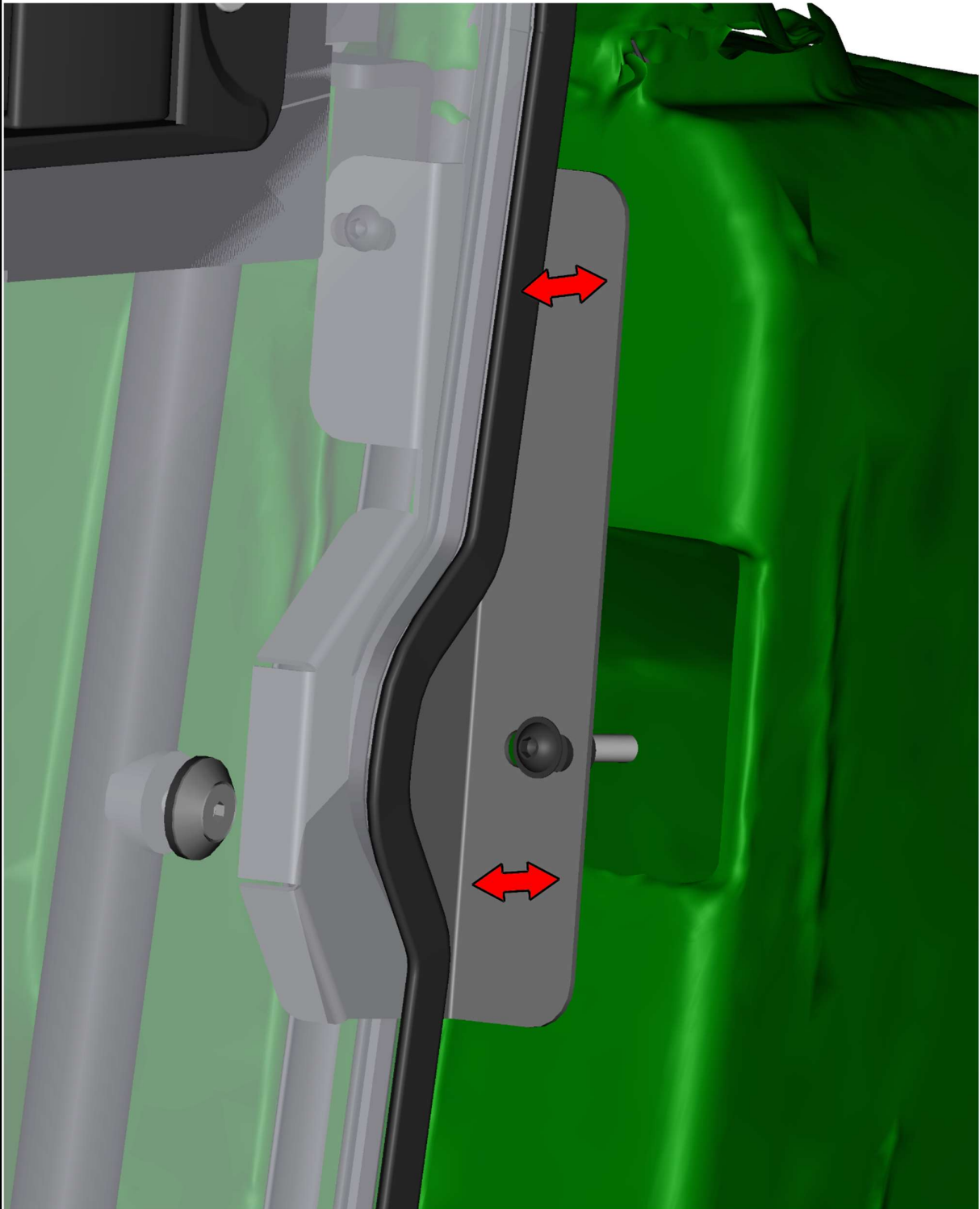
63

Place the front cover onto the vehicle body. Fix the front cover with the vehicle by included screws and tube.

64



Adjust the cover to the best position. It is necessary to cover will not collide with the door. (Door panel is transparent for your better orientation.)



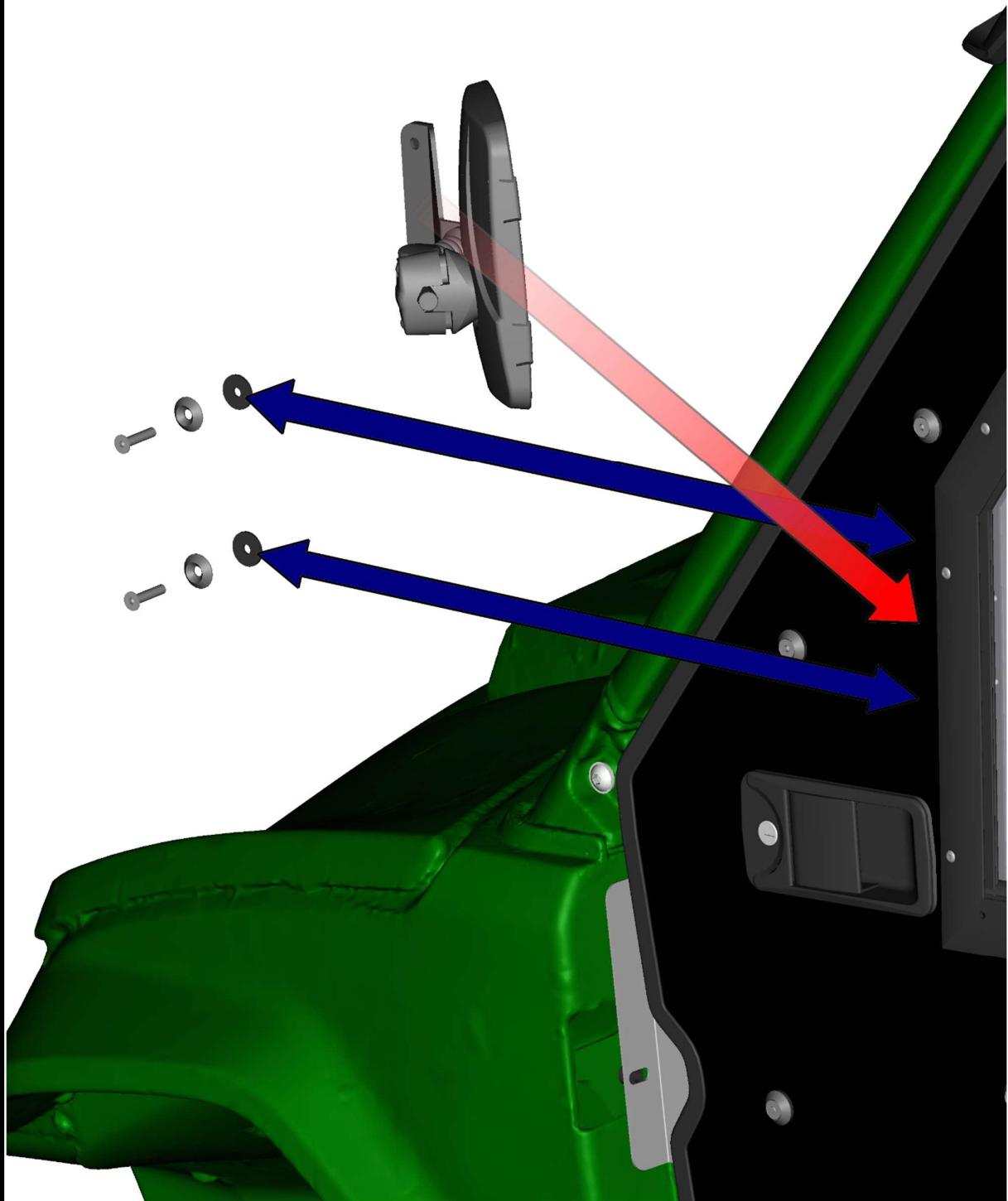
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Repeat previous steps on the left side of the vehicle.

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Take out the screws and washers from the door. Place the side mirror with the holder onto the door. Fix the mirror holder with the door by screws and washer from previous step. Repeat on second side.



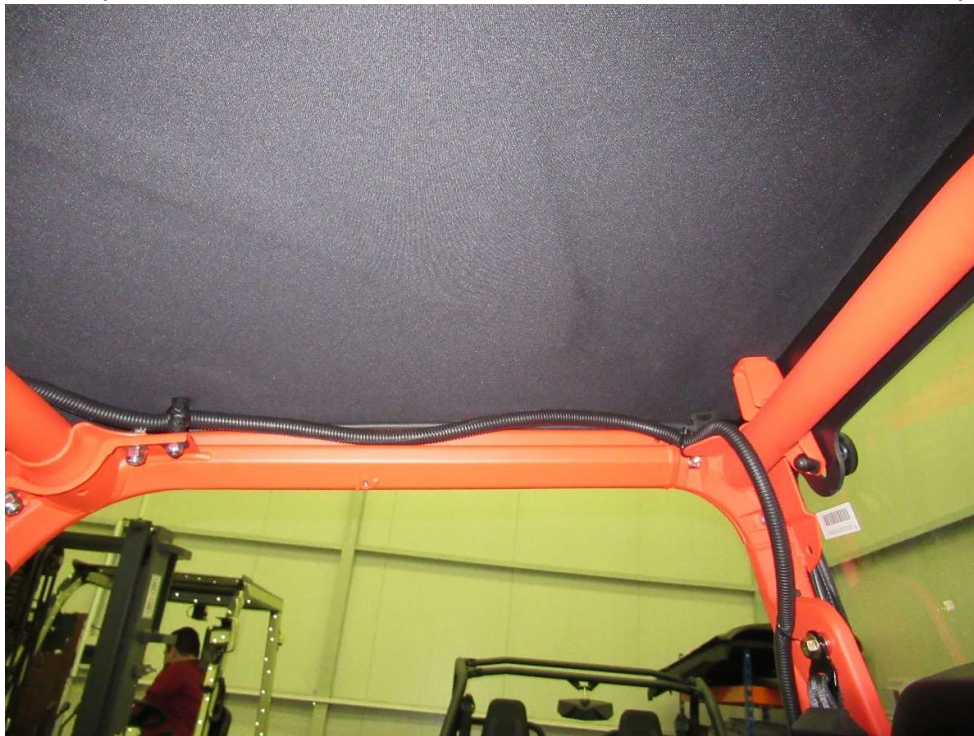
Make sure all screws and nuts are tightened correctly.

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ELECTROINSTALLATION 2.

Run the wiper harness from the rear vehicle frame to the front panel.



Run the wiper harness from the rear vehicle frame to the front panel.



Install the wiper motor assembly onto the front window.

Connect the wiper harness and washer hose with the wiper motor.



Fill the washer liquid into the washer tank before first usage.

BOLT TORQUE

BOLT TORQUE SPECIFICATIONS

GENERAL TORQUE SPECIFICATION TABLE

Use the following torques when special torques are not given. These values apply to fasteners as received from suppliers, dry, or when lubricated with normal engine oil. They do not apply if special graphited or moly disulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads. Remember to always use grade five or better when replacing bolts.

IMPORTANT: On all PLATED GRADE 8 bolts, reduce torque 15% from listed bolt torque specification.

SAE Grade No.		2				5				8*			
Bolt head identification mark as per grade. NOTE: Manufacturing Marks Will Vary													
Bolt Size		TORQUE				TORQUE				TORQUE			
		Pounds Feet		Newton-Meters		Pounds Feet		Newton-Meters		Pounds Feet		Newton-Meters	
Inches	Millimeters	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4	6.35	5	6	7	8	9	11	12	15	12	15	16	20
5/16	7.94	10	12	14	16	17	20.5	23	28	24	29	33	39
3/8	9.53	20	23	27	31	35	42	48	57	45	54	61	73
7/16	11.11	30	35	41	47	54	64	73	87	70	84	95	114
1/2	12.70	45	52	61	70	80	96	109	130	110	132	149	179
9/16	14.29	65	75	88	102	110	132	149	179	160	192	217	260
5/8	15.88	95	105	129	142	150	180	203	244	220	264	298	358
3/4	19.05	150	185	203	251	270	324	366	439	380	456	515	618
7/8	22.23	160	200	217	271	400	480	542	651	600	720	814	976
1	25.40	250	300	339	406	580	696	787	944	900	1080	1220	1464
1-1/8	25.58	-	-	-	-	800	880	1085	1193	1280	1440	1736	1953
1-1/4	31.75	-	-	-	-	1120	1240	1519	1681	1820	2000	2468	2712
1-3/8	34.93	-	-	-	-	1460	1680	1980	2278	2380	2720	3227	3688
1-1/2	38.10	-	-	-	-	1940	2200	2631	2983	3160	3560	4285	4827

*Thick Nuts must be used with Grade 8 bolts

METRIC BOLT TORQUE SPECIFICATIONS

		5.6			8.8			10.9		
Size of Screw	Property Class	Course Thread			Fine Thread					
		Pitch (mm)	Pounds Feet	Newton-Meters	Pitch (mm)	Pounds Feet	Newton-Meters			
M6	5.6	1.0	3.6-5.8	4.9-7.9	-	-	-			
	8.8		5.8-9.4	7.9-12.7		-	-			
	10.9		7.2-10	9.8-13.6		-	-			
M8	5.6	1.25	7.2-14	9.8-19	1.0	12-17	16.3-23			
	8.8		17-22	23-29.8		19-27	25.7-36.6			
	10.9		20-26	27.1-35.2		22-31	29.8-42			
M10	5.6	1.5	20-25	27.1-33.9	1.25	20-29	27.1-39.3			
	8.8		34-40	46.1-54.2		35-47	47.4-63.7			
	10.9		38-46	51.5-62.3		40-52	54.2-70.5			
M12	5.6	1.75	28-34	37.9-46.1	1.25	31-41	42-55.6			
	8.8		51-59	69.1-79.9		55-68	75.9-92.1			
	10.9		57-66	77.2-89.4		62-75	84-101.6			
M14	5.6	2.0	49-56	66.4-75.9	1.5	52-64	70.5-86.7			
	8.8		81-93	109.8-126		90-106	122-143.6			
	10.9		96-109	130.1-147.7		107-124	145-168			
M16	5.6	2.0	67-77	90.8-104.3	1.5	69-83	93.6-112.5			
	8.8		116-130	157.2-176.2		120-138	162.6-187			
	10.9		129-145	174.8-196.5		140-158	189.7-214.1			
M18	5.6	2.0	88-100	119.2-136	1.5	100-117	136-158.5			
	8.8		150-168	203.3-227.6		177-199	239.8-269.6			
	10.9		175-194	237.1-262.9		202-231	273.7-313			
M20	5.6	2.5	108-130	146.3-176.2	1.5	132-150	178.9-203.3			
	8.8		186-205	252-277.8		206-242	279.1-327.9			
	10.9		213-249	288.6-337.4		246-289	333.3-391.6			

