



## KAWASAKI TERYX4 ClearView Cab p/n: 1KAWT8004CV fits model years: 2013-2017

The contents of this envelope are the property of the owner.  
Be sure to leave with the owner when installation is complete.

**Warning!** This vehicle is capable of traveling at high speed. Do not attempt to drive the vehicle with the cab doors removed. If the cab doors are intentionally removed, the O.E.M. (Original Equipment Manufacturer) vehicle half doors or netting must be re-installed prior to driving the vehicle. Failure to do so could result in serious injury or death.

**Caution!** Do not operate vehicle with windshield in the full open position.

### Approximate Installation Time \*

Experienced Dealer Technician – 4.0 Hours

Average Dealer Technician – 5.0 Hours

Do-It-Yourself – 6.0 Hours

(\* = Not including accessories)



A windshield wiper is not included with this cab kit. It is available as a separate additional option (p/n: 1KAWT800CVWPR).

Door mirrors are not included, but are available as a separate additional option (p/n: 9PM6).

revised: 12-7-2018



## NOTICE

Curtis Cabs, blades and general accessories add additional weight to the base vehicle. All Curtis accessory weights are listed in product brochures. Deduct the accessory's total weight from the vehicle's rated capacity and never exceed the vehicle's rated capacity including driver and passenger.



**WARNING** *Exposure to Carbon Monoxide can Cause illness, serious injury or death. Never operate vehicle if suspicious of Carbon Monoxide. Inspect exhaust system for leaks monthly. Leaks can result from loose connections, corrosion, cracks or other damage to the exhaust manifold. If leaks are found, repair or replace exhaust system. Do not use vehicle until repair or replacement is complete.*



## WARNING

### Serious Injury or Death



This cab enclosure does not provide protection from rollover or other accidents.



This cab enclosure does not provide protection from flying objects including golf balls.



This cab enclosure does not provide protection from lightning. When lightning threatens take cover and do not operate vehicle.

### California Proposition 65



## WARNING



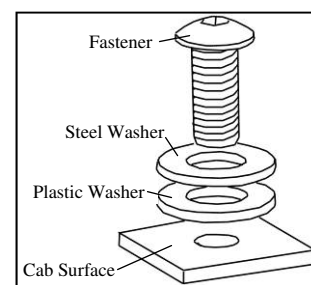
Engine exhaust, some of its constituents, certain vehicle components and fluids, contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## CAB INSTALLATION

### BEFORE YOU START

#### HELPFUL HINTS:

- Refer to parts diagram toward the back of this manual to help identify parts during the assembly process.
- To assist with the cab installation, leave all bolts loose for later adjustment unless otherwise specified. Install nut covers as a very last step after finishing the installation.
- Read and understand all instructions before beginning.
- Plastic washers have been supplied to provide a weather seal under the heads of all exterior bolts. The plastic washer should be installed under each bolt head directly against the outside cab surface. Care should be taken not to over tighten the fasteners and damage the plastic washer. Also use steel washers as required. See diagram. Tip: the black plastic washers can be difficult to distinguish from the black steel washers. Use a magnet or look for round witness marks left on the plastic washers from the mold ejector pins.
- Apply a clear silicone sealant to seal any minor gaps that may occur due to vehicle variations.
- Use caution to avoid damaging any factory installed threaded inserts or weldnuts. Begin the bolt engagement by hand to guard against potential cross threading.



## **SAFETY INSTRUCTIONS**

Warning: Failure to heed all safety and operating instructions, and warnings regarding the use of this product, can result in serious bodily injury.

Install all parts indicated in assembly instructions. Failure to fully assemble the product before use could result in personal injury.

Assembly of product requires use of hand. If you are not experienced in using these types of tools, have a product dealer do the installation 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 below.

Do not operate your UTV with the cab doors open. Failure to properly latch the doors before moving the vehicle could result in serious injury.

In extreme cases, severe bumps may cause the windshield to close even from the vented position. It is recommended to keep the windshield fully closed when driving over extreme bumps, etc.

Plastic washers have been supplied to provide a weather seal around all exterior fasteners. The plastic washer should be installed under each bolt head directly against the outside cab surface. Care should be taken not to over tighten the fasteners and damaging the plastic washer. Use metal washers as required.

## **MAINTENANCE AND CLEANING**

The inside surface of the windshield is coated with a plasticized safety film. Use care when cleaning the windshield to avoid scratching the inside surface.

To clean polycarbonate surfaces, use a soapy water solution or other gentle means.

Dirt and dust can be removed with a gentle water stream and wiping only with a wet or damp soft cloth from top to bottom.

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

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

Do not remove impurities from surfaces with a razor blade or other sharp items.

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

Do not use a squeegee, it could scratch surfaces.

The mfr. is not responsible for surface scratches caused by failure to comply with the above instructions.

Check and tighten hardware after 40 hours of operation. Periodically inspect and tighten hardware for the remainder of the unit's life.

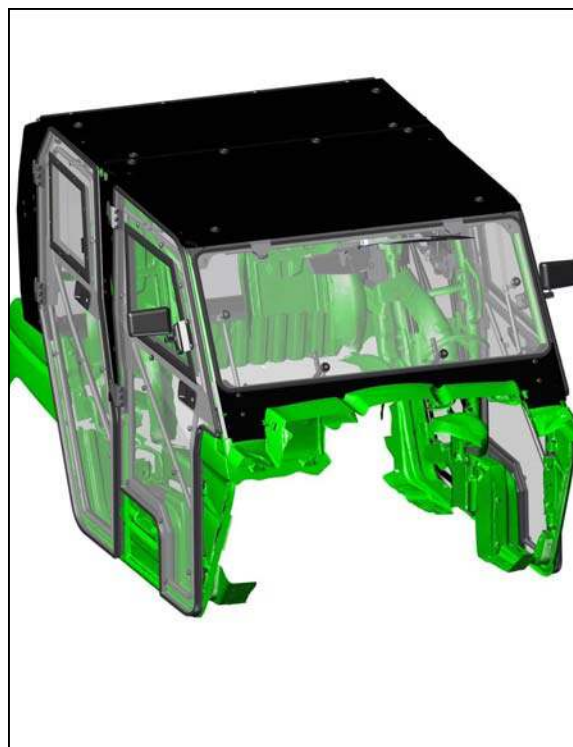
## **1. VEHICLE PREP**

**1.1** Remove all additional systems from the R.O.P.S. (Roll-Over Protective Structure) including work lights, rear mirrors, drink holders etc.. Remove the OEM half doors or nets from the vehicle. Remove the OEM roof and associated rear brackets.

## **2. REAR PANEL**

**2.1** Align the right door base onto the UTV roll cage

**2.2** Fasten the right door base to the UTV roll cage with M8x20 SCREWS



Cab Preview

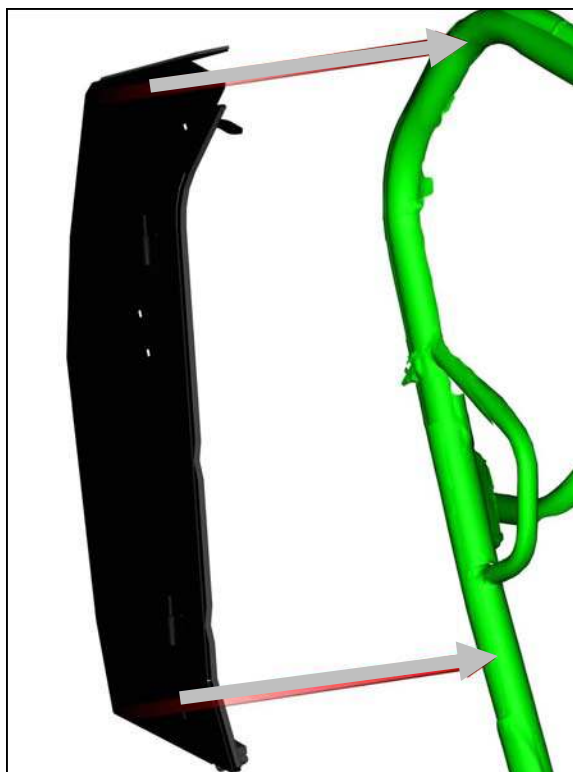


Fig. 2.1

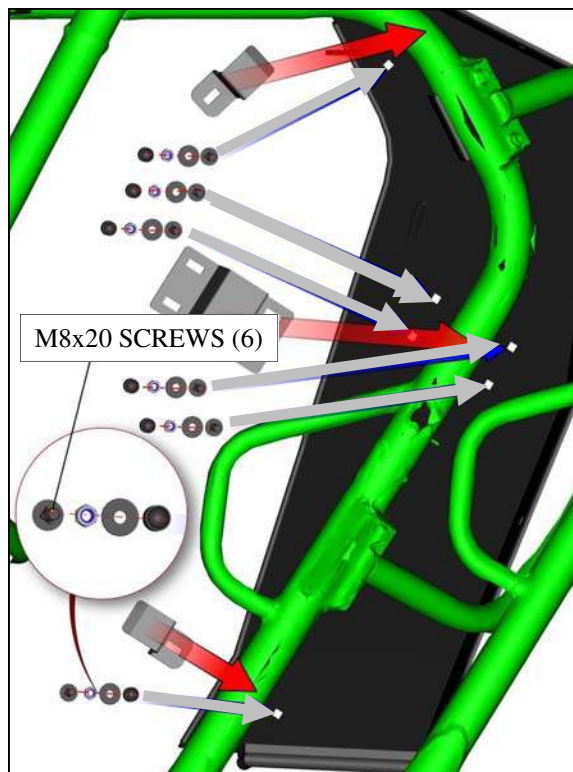


Fig. 2.2



## **2. REAR PANEL (cont'd)**

**2.3** Repeat the previous steps with the left door base

**2.4** Place the rear polycarbonate onto the door bases and fasten the rear polycarbonate with the door bases with M8x30 SCREWS

## **3. FRONT PANEL**

**3.1** Remove and discard the OEM screws from the UTV roll cage (shown in the white circle in the photo) and replace them with supplied M12 SCREWS (on both sides of the vehicle).

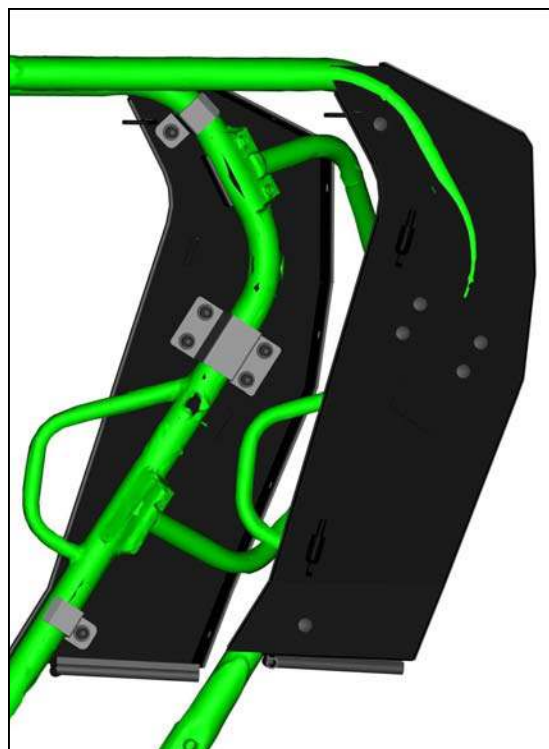


Fig. 2.3

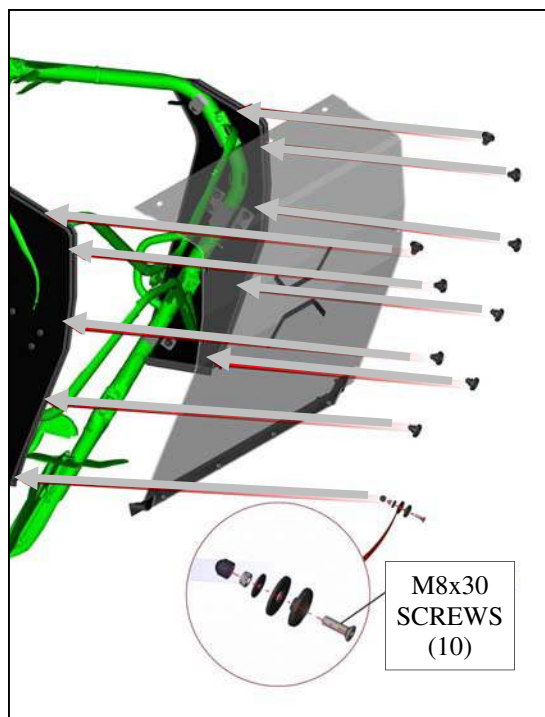


Fig. 2.4



Fig. 3.1

### 3. FRONT PANEL (cont'd)

**3.2** Per fig. 3.2, the screws are to be inserted from the inboard side on each side of the vehicle.

**3.3** Place the front bottom ledge onto the UTV roll cage.  
**Note:** the EPDM rubber has a perforation to suite various model years. The full configuration (leaving the rubber as it is) fits older models such as 2014-2016. The 2017 model (and newer vehicles) require the perforation to be separated and discarded. Dry fit the entire front lower ledge assembly onto the hood of the vehicle as a double check before separating at the perforation. If rubber must be removed, it is suggested to follow it up with a nicer finish cut by using scissors to clean up the remaining jagged rubber edge.

**3.4** Replace the screws from the previous stop one by one from the outer side and add washers and nuts to fasten the bottom ledge to the UTV roll cage on both sides with M12x70 SCREWS

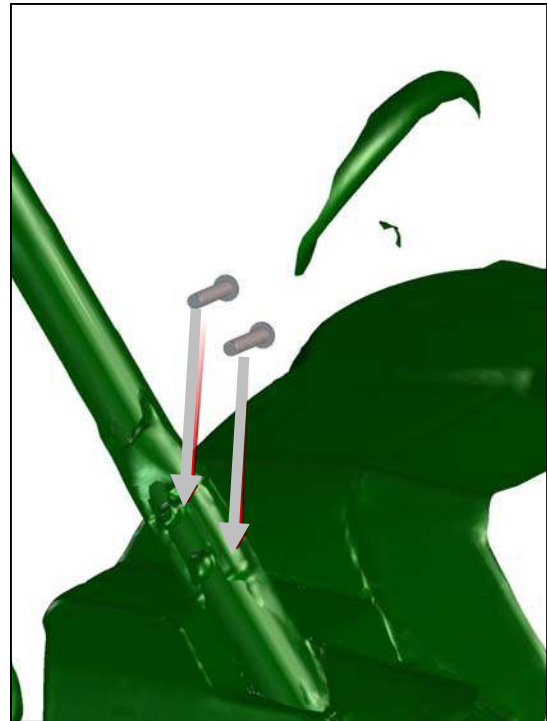


Fig. 3.2

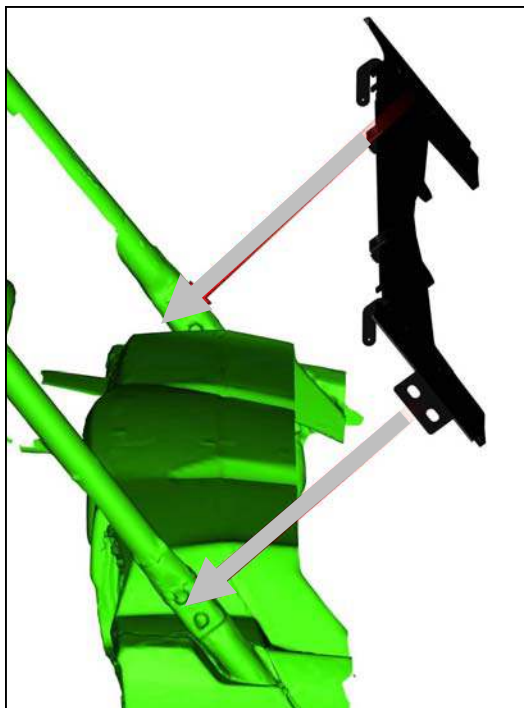


Fig. 3.3

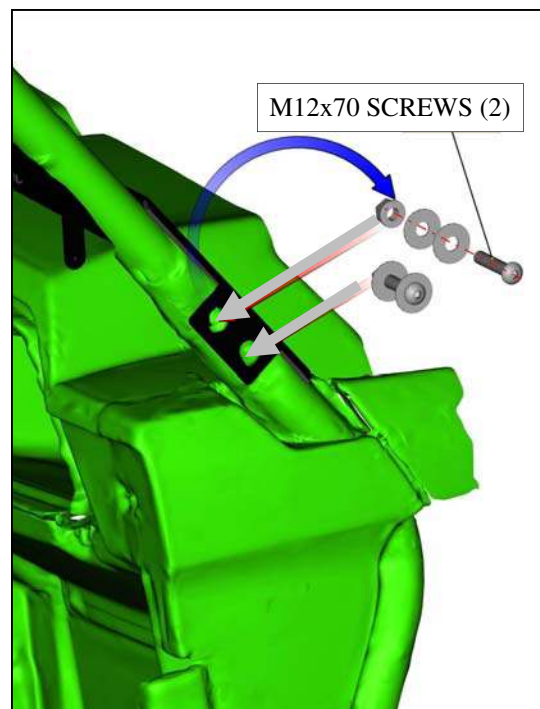


Fig. 3.4

### 3. FRONT PANEL (cont'd)

**3.5** Install the door stop bracket onto the bottom ledge bracket with M8x20 SCREWS

**Caution!** The inside surface of the front panel is coated with a plasticized safety film. Use care when cleaning the front panel to avoid scratching the inside surface.

**3.6** Place the front glass assembly onto the front upper ledge with hinges and M8x40 SCREWS

**3.7** Place the front panel assembly onto the UTV roll cage. Per the photo on the right, keep the flat head screws loose/snug. When it's time to tighten these screws, use care to avoid cracking the countersink. **Caution: the front panel hinges are plastic components. Do not over tighten the flat head screws. Torque to 7 ft.-lbs. max.**



Fig. 3.5

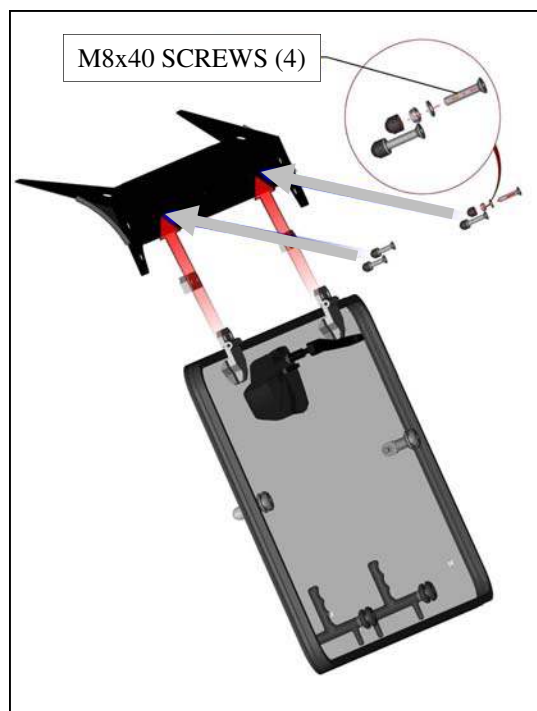


Fig. 3.6



Fig. 3.7

### **3. FRONT PANEL (cont'd)**

**3.8** Fasten the front upper ledge to the UTV cage with M8x35 SCREW and M8x20 SCREWS

**3.9** Install the gas spring into the brackets oriented with the piston rod pointing down for best, continuous seal, lubrication, and longest piston gas spring life. Install the front gas spring onto the gas spring brackets. Note: the windshield uses the gas shocks that are labeled 150 New-tons.

### **4. FRONT DOOR BASES**

**4.1** Remove and discard the OEM screws one by one from the UTV roll cage (shown in the white circle in the photo) with the newly supplied M12x80 SCREWS.

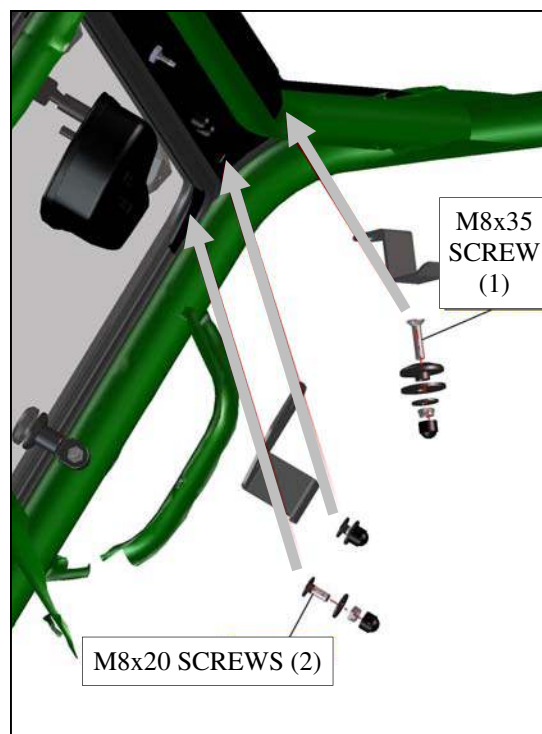


Fig. 3.8

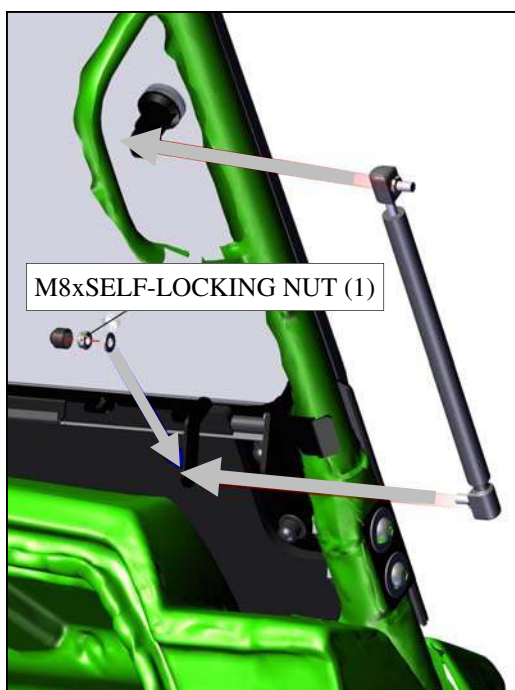


Fig. 3.9



Fig. 4.1



#### **4. FRONT DOOR BASES (cont'd)**

**4.2** Insert the M12x80 SCREWS from the inner side of the roll cage

**4.3** Remove and discard one OEM screw on the UTV roll cage (shown in the white circle in the photo) and replace with the supplied M12x70 screws (from the inboard side).

**4.4** M12x70 SCREW (qty.: one per side).

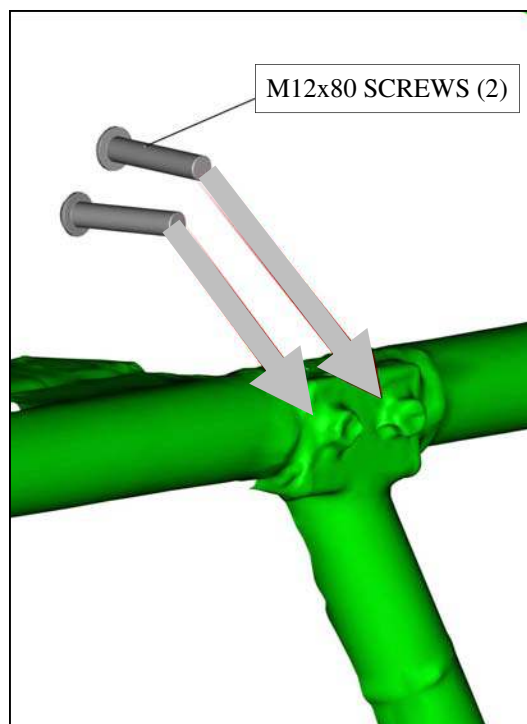


Fig. 4.2



Fig. 4.3

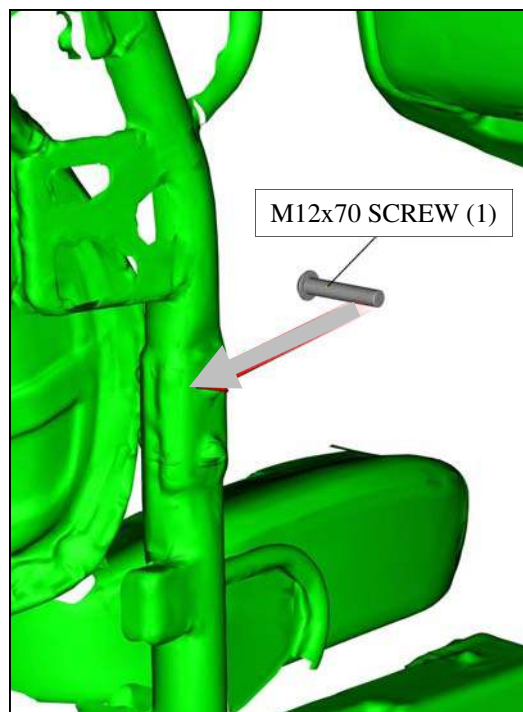


Fig. 4.4

#### **4. FRONT DOOR BASES (cont'd)**

**4.5** Place the front door base onto the UTV roll cage and adjust into position

**4.6** Replace the upper screws one by one from the outboard side and fasten the door base to the UTV cage

**4.7** Replace the bottom screw from the outboard side and fasten the door base to the UTV roll cage



Fig. 4.5

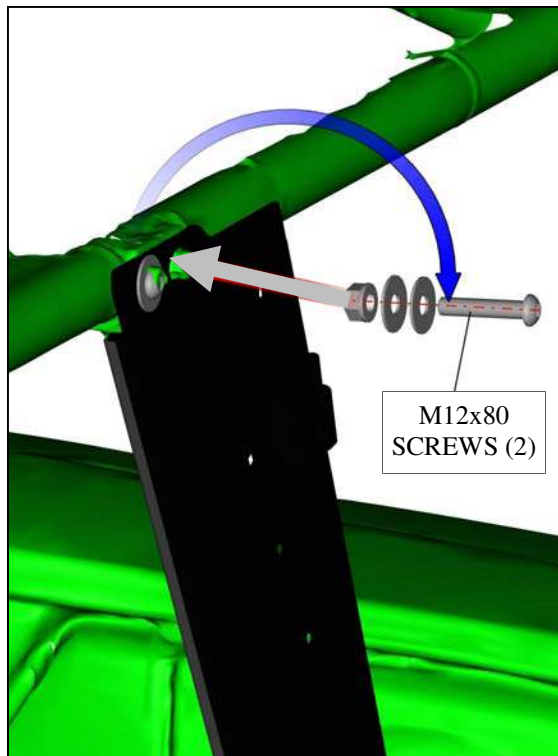


Fig. 4.6

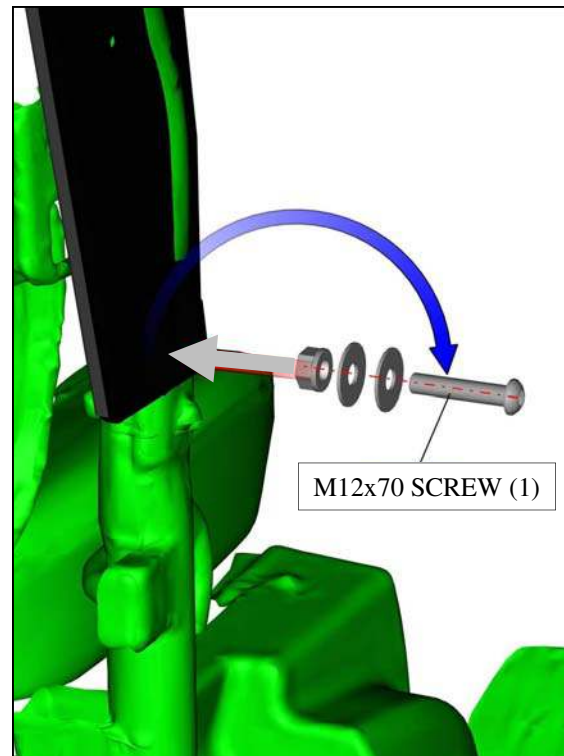


Fig. 4.7

#### 4. FRONT DOOR BASES (cont'd)

**4.8** Place the front door base middle bracket into position and fasten with the M8x20 SCREWS

**4.9** Place the front door base upper bracket into position and fasten with M8x20 SCREW

**4.10** Place the front door base bottom bracket into position and fasten with M8x20 SCREW

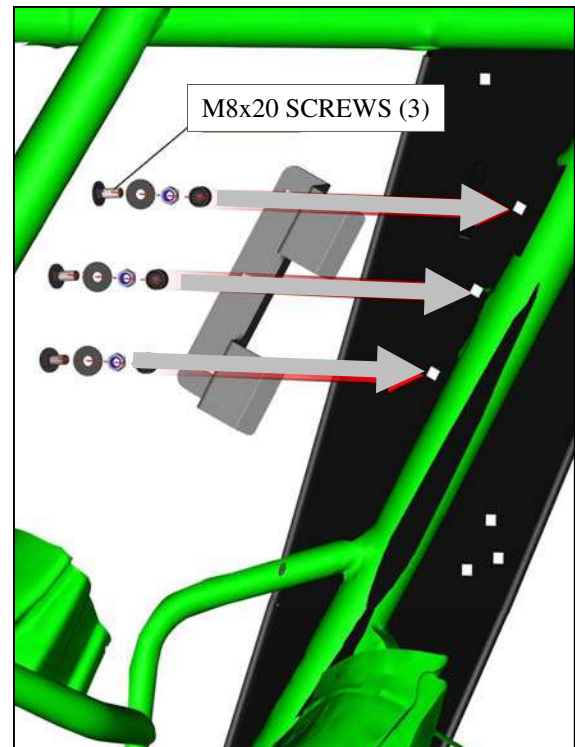


Fig. 4.8

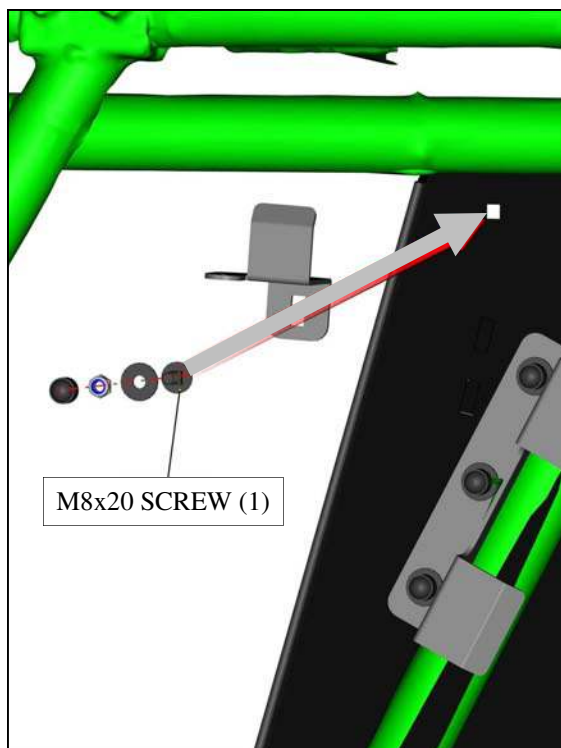


Fig. 4.9

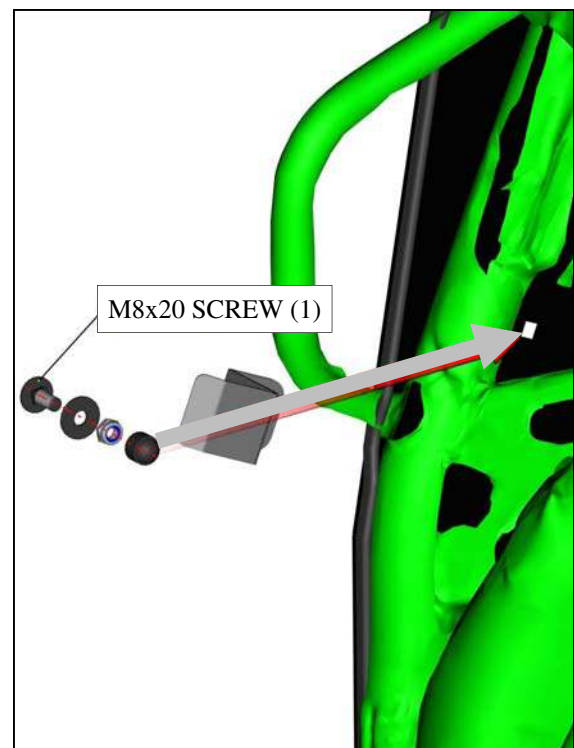


Fig. 4.10

#### **4. FRONT DOOR BASES (cont'd)**

**4.11** Remove and discard the OEM bottom screw from the UTV roll cage with M12x70 SCREW

**4.12** Place the front door base sealing ledge bracket onto the front door base sealing ledge and fasten with M6x20 SCREW

**4.13** Align the front door base sealing ledge into position

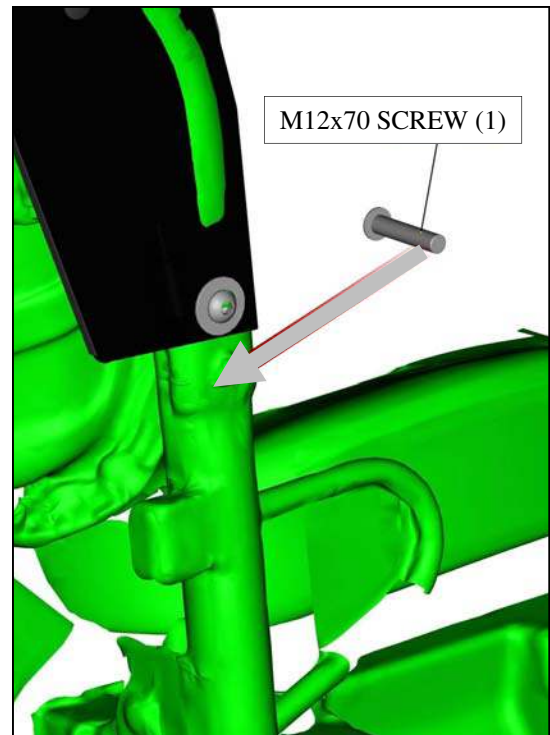


Fig. 4.11

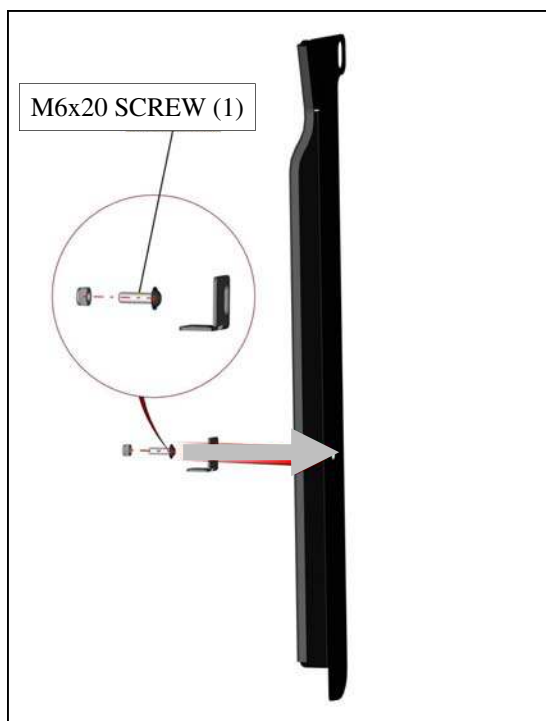


Fig. 4.12



Fig. 4.13



#### 4. FRONT DOOR BASES (cont'd)

**4.14** Replace the screw from the outboard side and fasten the front door base sealing ledge with the UTV roll cage with M12x70 SCREW

**4.15** Fasten the front door base sealing ledge with the original hinge with M6x20 SCREW

**4.16** Repeat the previous steps with the left front door base

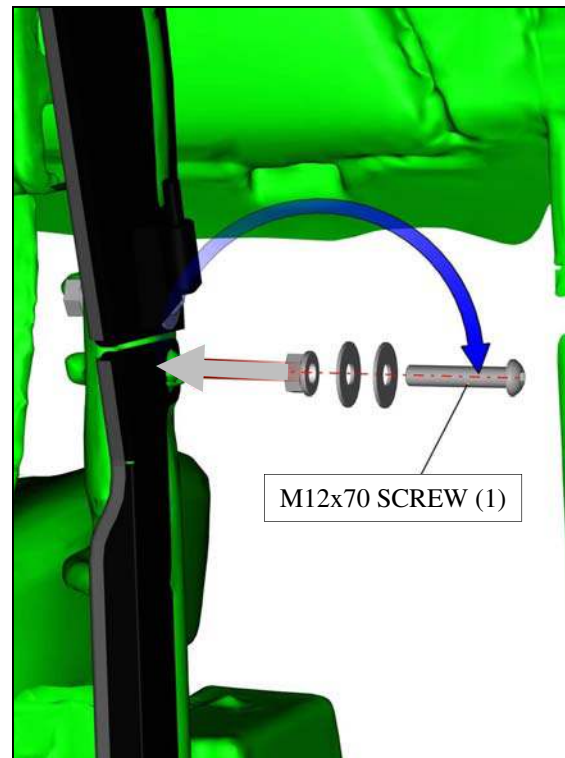


Fig. 4.14

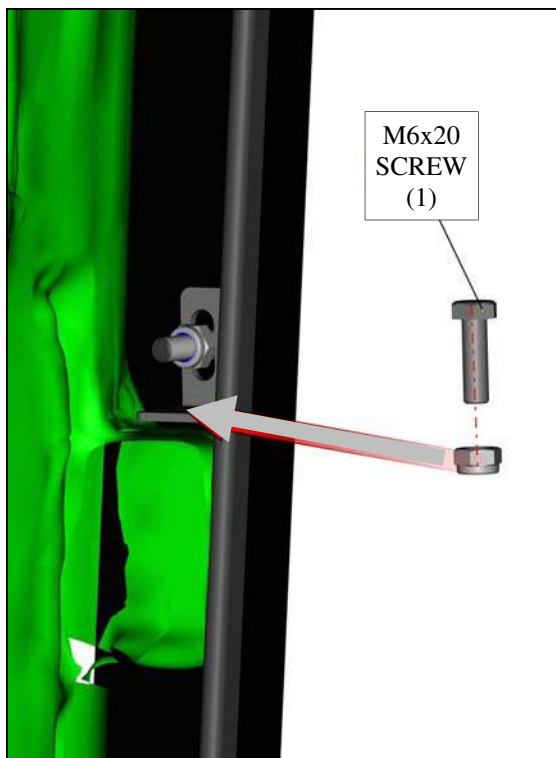


Fig. 4.15



Fig. 4.16

## 5. ROOF

**5.1** Place the rear roof on the UTV roll cage

**5.2** Place the rear upper ledge onto the rear polycarbonate from the inner side and fasten it with M8x30 SCREWS

**5.3** Fasten the rear roof to the UTV roll cage with the rear roof brackets and one M8x25 SCREW and one M8x30 SCREW

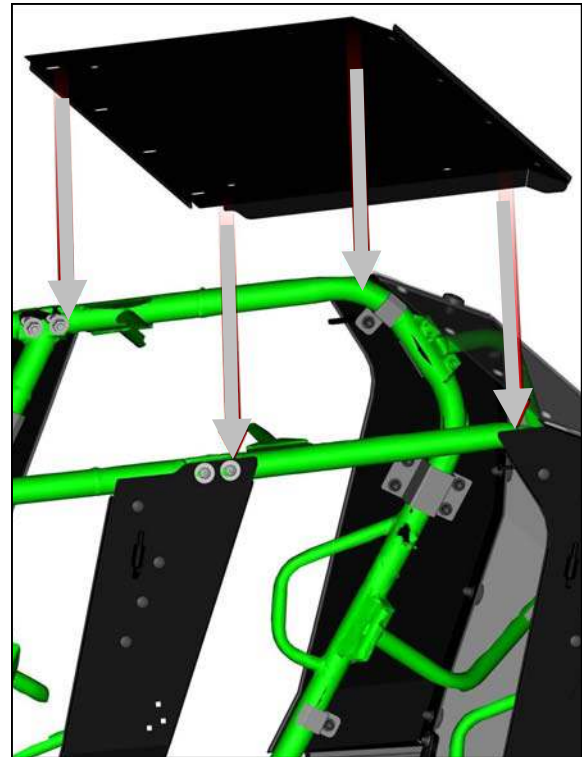


Fig. 5.1

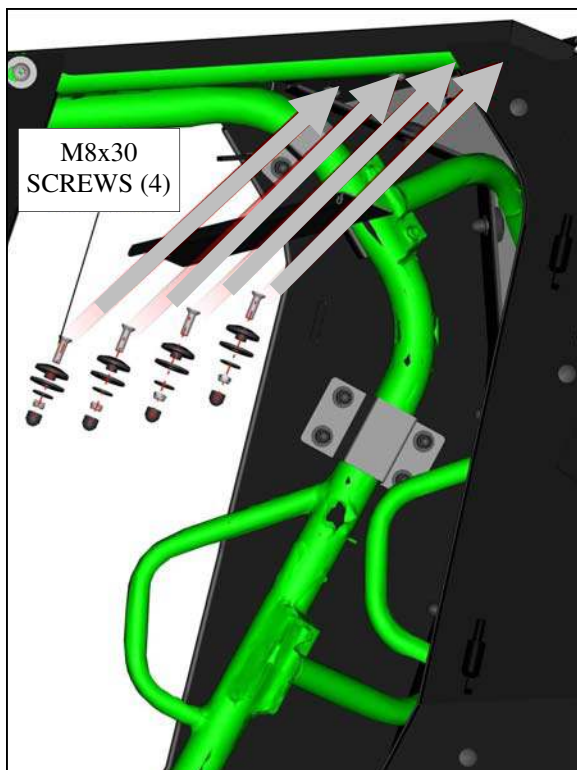


Fig. 5.2

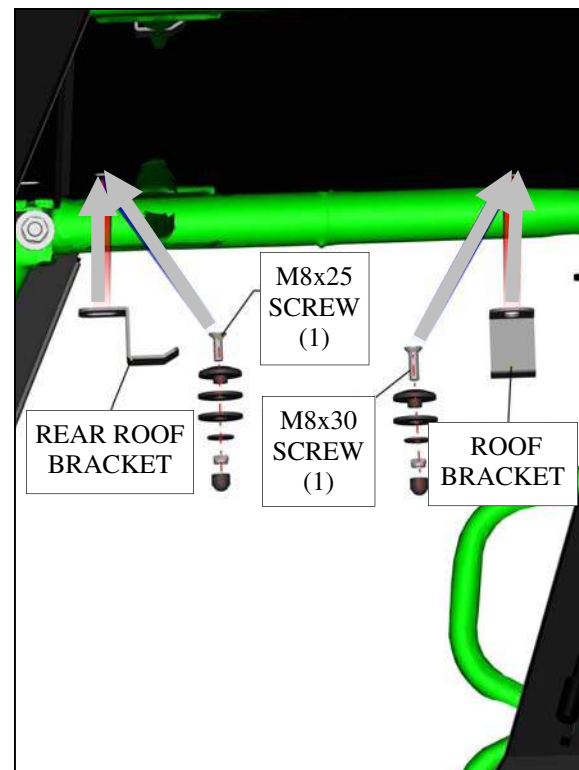


Fig. 5.3

## 5. ROOF (cont'd)

**5.4** Read this entire step first before taking action. See figures 5.4a, b, and c. Once the rear roof is in place, temporarily place the front roof in place and mark where the roofs overlap. Apply the supplied Arch PSA bulb rubber (.20" wide x .15" tall) to the top, front surface of the rear roof so that it is barely underneath the back edge of the front roof. The roofs overlap a lot, but it is suggested to keep the rubber seal as far to the rear of the vehicle as possible and still have it underneath the front roof. Note: apply the pressure sensitive adhesive bulb rubber to a clean, dry surface at room temperature for best adhesion.

**5.5** Place the front roof on the UTV roll cage.

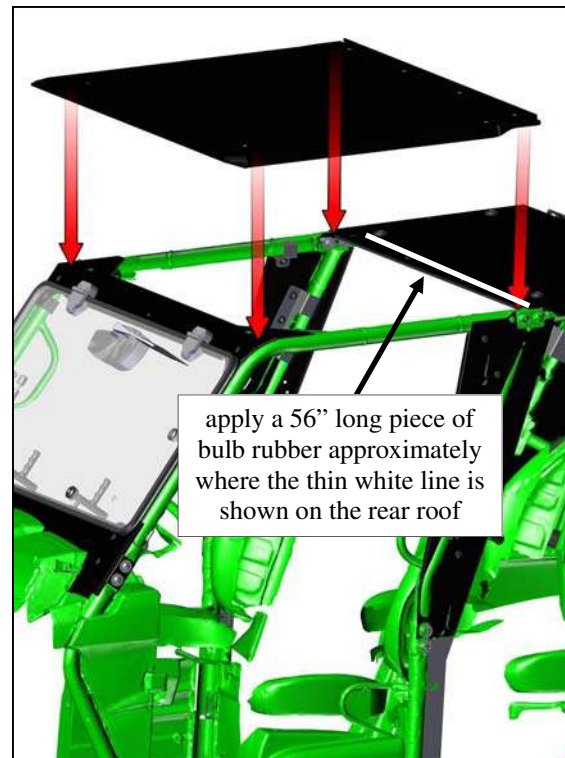


Fig. 5.4a

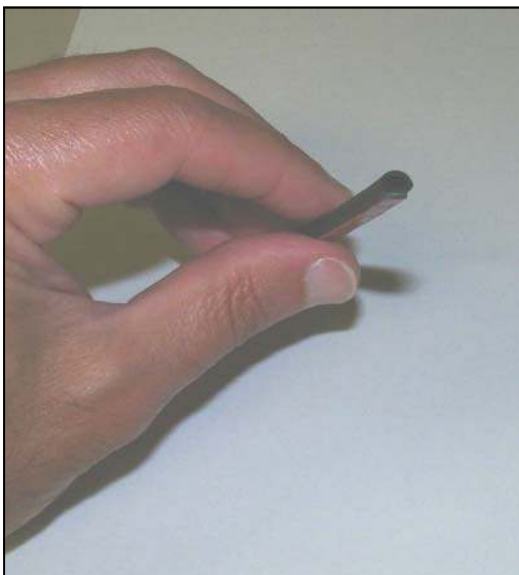


Fig.5.4b (view of Arch PSA bulb rubber)



Fig.5.4c (view of driver's side)

## **5. ROOF (cont'd)**

**5.6** If necessary, loosen the front upper ledge bracket screws and lead it through the roof on both sides (M8x35 SCREW)

**5.7** Fasten the front roof panel to the rear roof panel with M8x25 SCREWS (4)

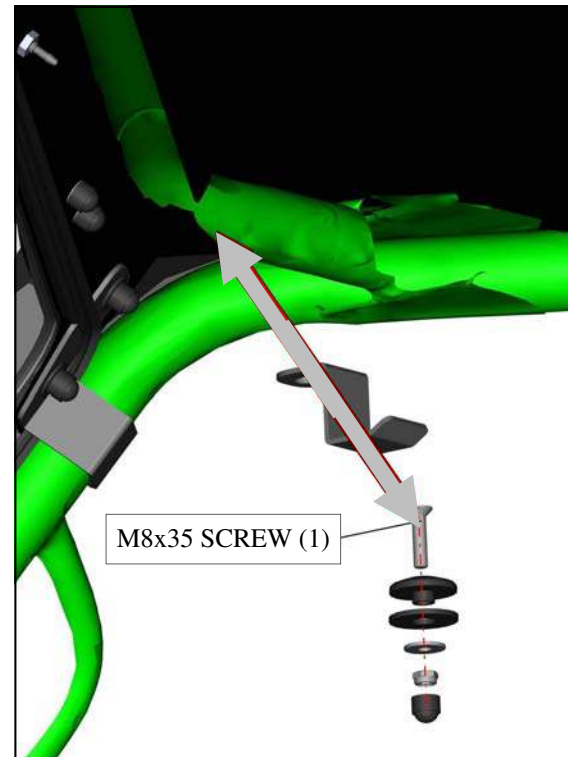


Fig. 5.6

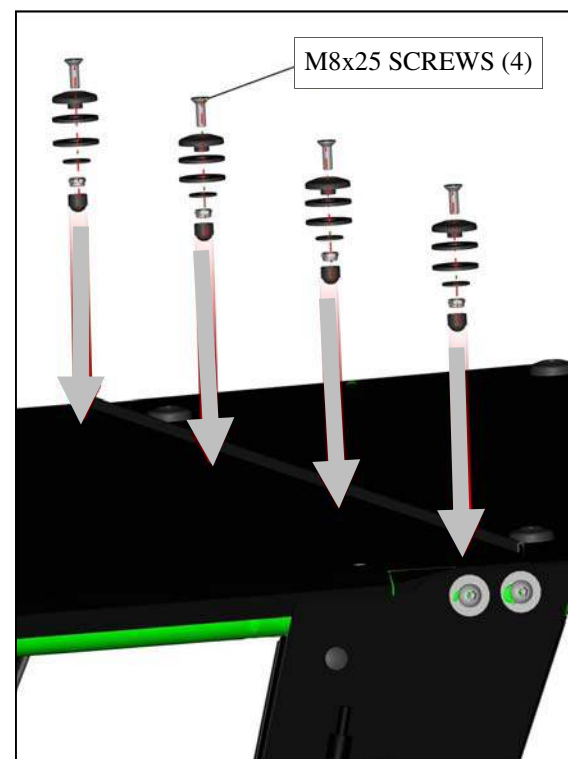


Fig.5.7



## 5. ROOF (cont'd)

**5.8** Fasten the front roof panel to the UTV cage with the included bracket and M8x30 SCREW

## 6. REAR DOORS

**6.1** Install the Latch Pin, Finger Guard, Washer, and Nut onto the right rear door stop bracket 2. Place the entire assembly onto the right rear door stop bracket 1.

**6.2** Fasten the right rear door stop assembly onto the right front door base with the included M8x20 SCREWS

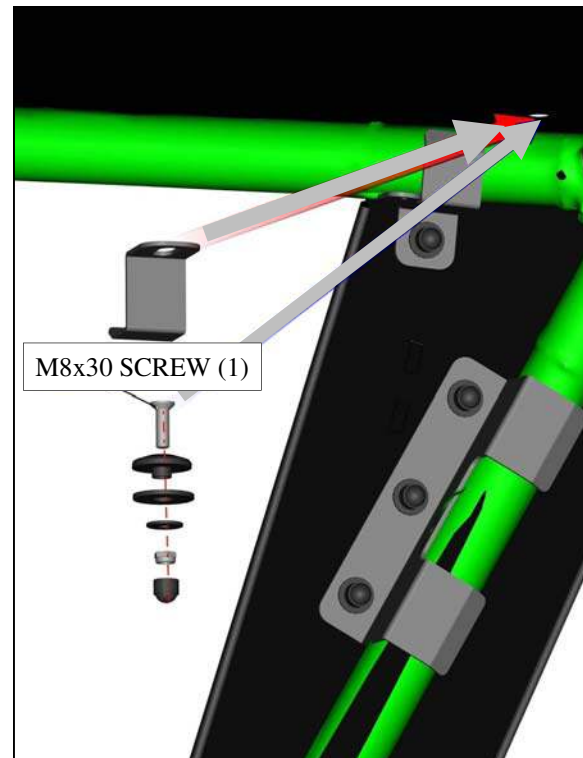


Fig. 5.8

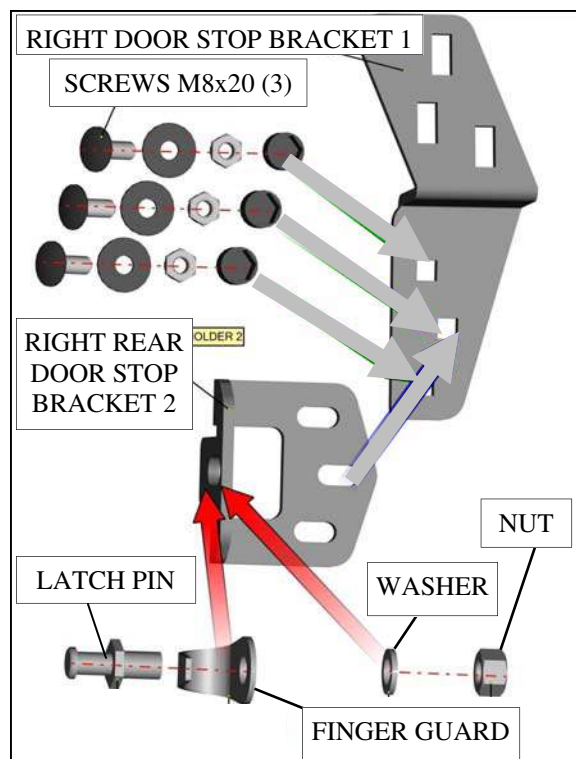


Fig. 6.1

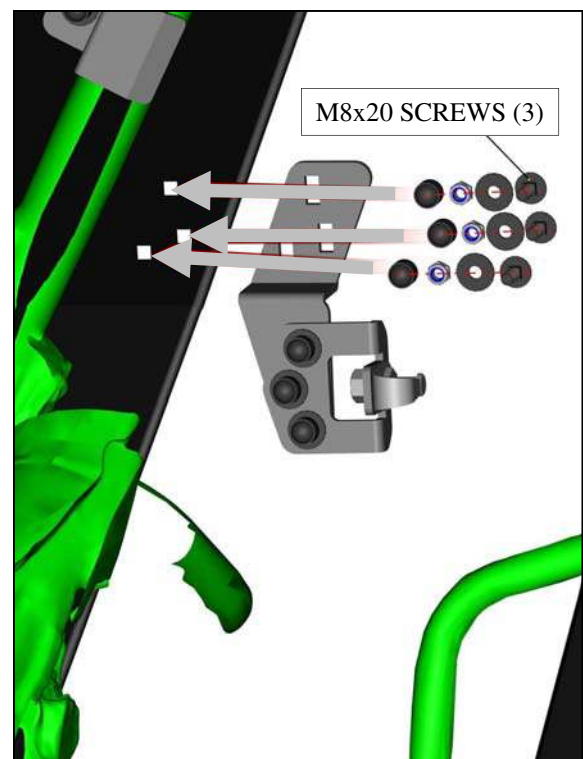


Fig. 6.2

## 6. REAR DOORS (cont'd)

**6.3** Lubricate the hinge pins and install one washer onto each hinge pin. Install the right rear door onto the hinges.

**6.4** Adjust the right rear door into position by adjusting the hinges and screws. **CAUTION:** to avoid damage to the door polycarbonate, tighten bolts to a maximum of 7 ft.-lbs.

**6.5** Adjust the right rear door assembly into position and tighten screws firmly (see arrows in photo).

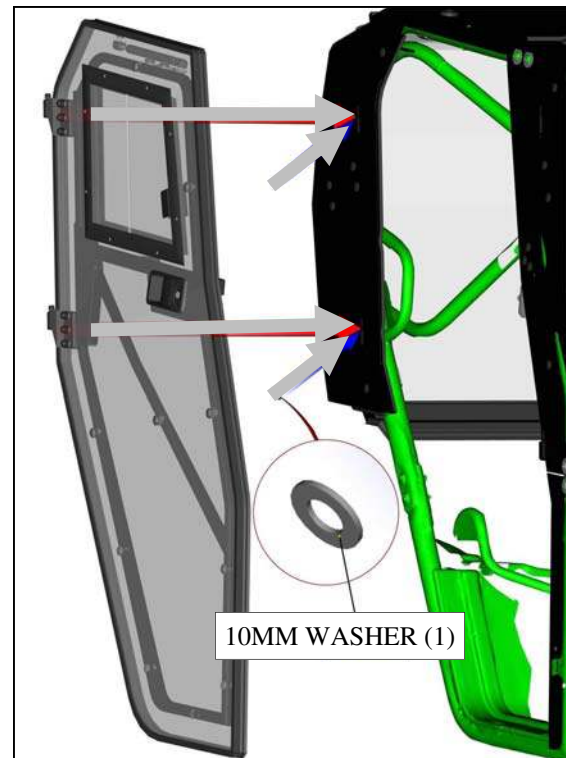


Fig. 6.3

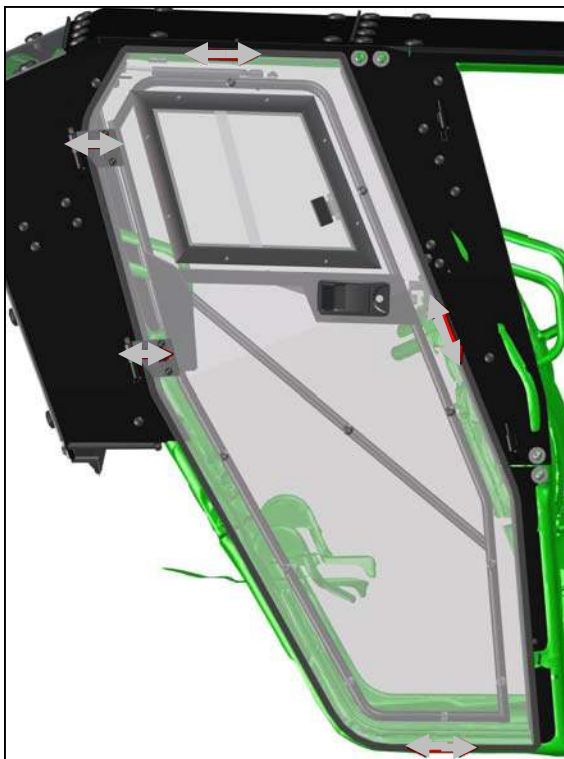


Fig. 6.4



Fig. 6.5

## **7. FUEL FILLER COVER**

**7.1** Align the fuel filler cover into position on the right side of the vehicle.

**7.2** Transfer the hole locations in the fuel filler cover onto the UTV plastic cover and drill 4 holes (5/16" diameter) (shown in the white circles in the photo)

**7.3** Fasten the fuel filler cover with the supplied plastic rivets

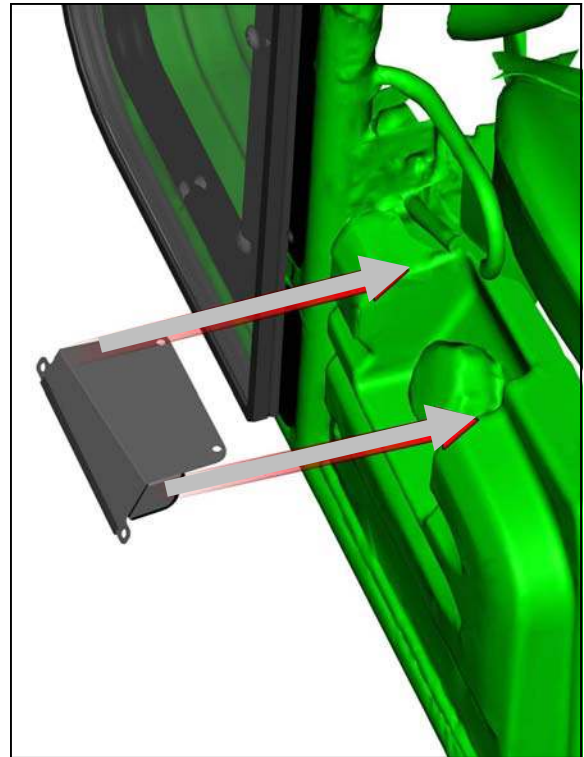


Fig. 7.1



Fig. 7.2

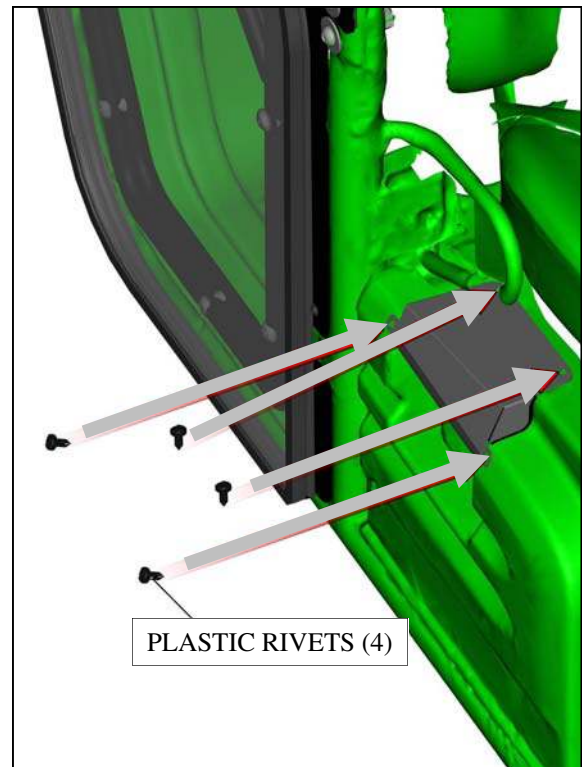


Fig. 7.3

## 8. FRONT DOORS

**8.1** Place the front hinge brackets onto the right front door ledge and fasten with M6x20 SCREWS

**8.2** Place the right front door ledge onto the front hinge bases with the brackets and fasten with M6x20 SCREWS

**8.3** Carefully drill 2 holes (5/16" diameter) into the UTV plastic cover so that they line up with the front door ledge holes. Fasten the right door ledge to the UTV covers with the included plastic rivets

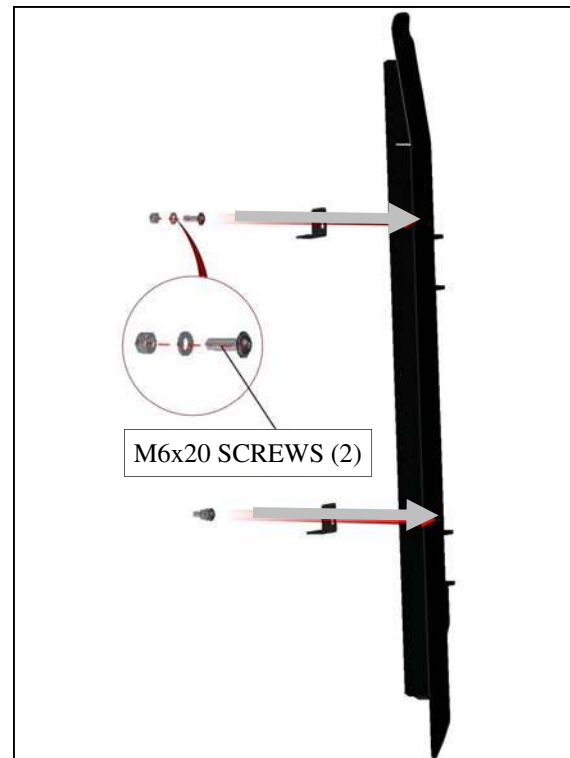


Fig. 8.1

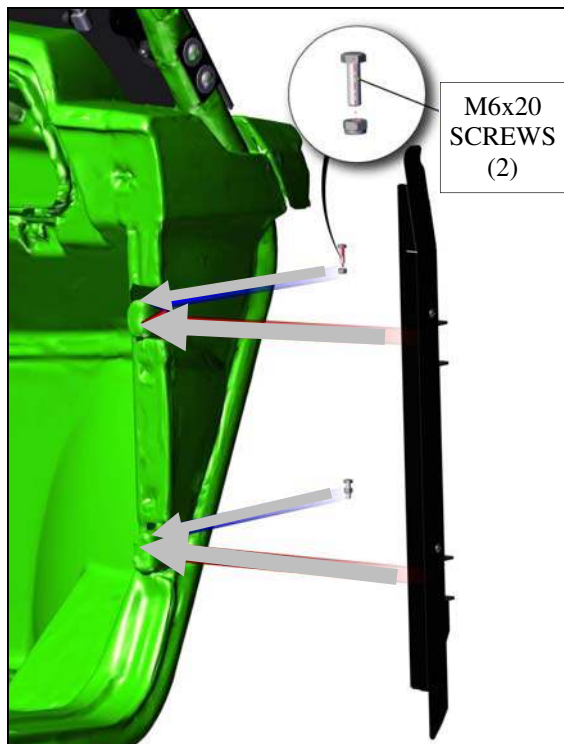


Fig. 8.2



Fig. 8.3



## 8. FRONT DOORS (cont'd)

**8.4** Install the Latch Pin, Finger Guard, Washer, and Nut onto the right front door stop bracket 2. Align the whole assembly onto the front door stop bracket 1 and fasten with M8x20 SCREWS

**8.5** Place the right front door stop assembly onto the right front bottom ledge bracket and fasten with SELF-LOCKING M8 NUTS

**8.6** Lubricate and install one 10mm washer onto each hinge pin and install the right door onto the hinges

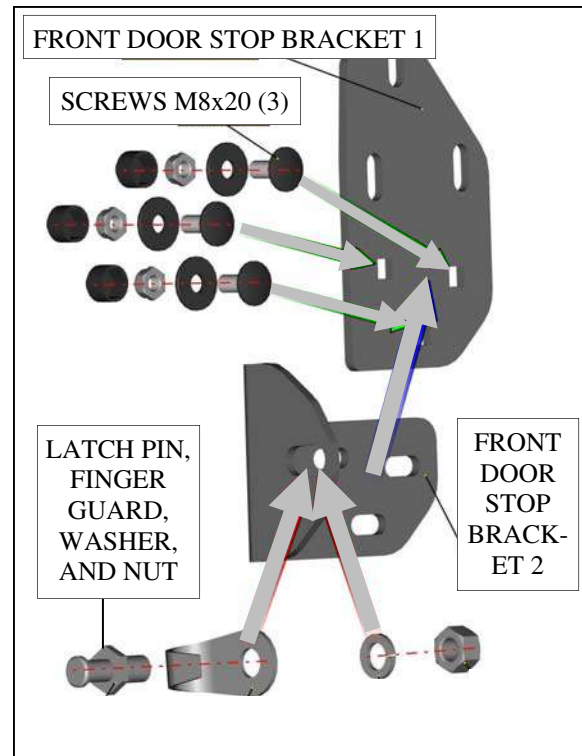


Fig. 8.4



Fig. 8.5

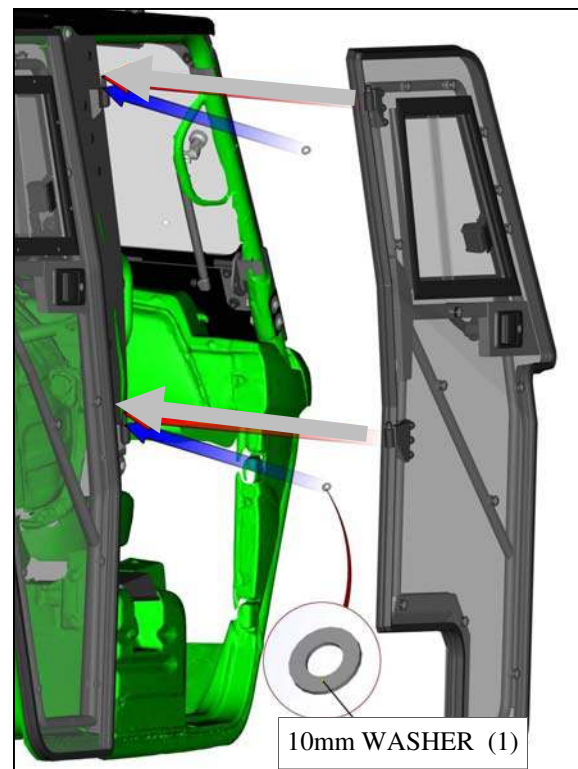


Fig. 8.6

## 8. FRONT DOORS (cont'd)

**8.7** Adjust the right door into position and tighten screws firmly (see arrows in photo). CAUTION: to avoid damage to the door polycarbonate, tighten bolts to a maximum of 7 ft.-lbs.

**8.8** Adjust the right door stop assembly into position and tighten screws firmly (see arrows in photo).

**8.9** Install the gas springs onto the ball studs. Note: the front doors use the gas springs that are labeled 200 Newtons and the rear doors use the ones that are labeled 100 Newtons.



Fig. 8.7

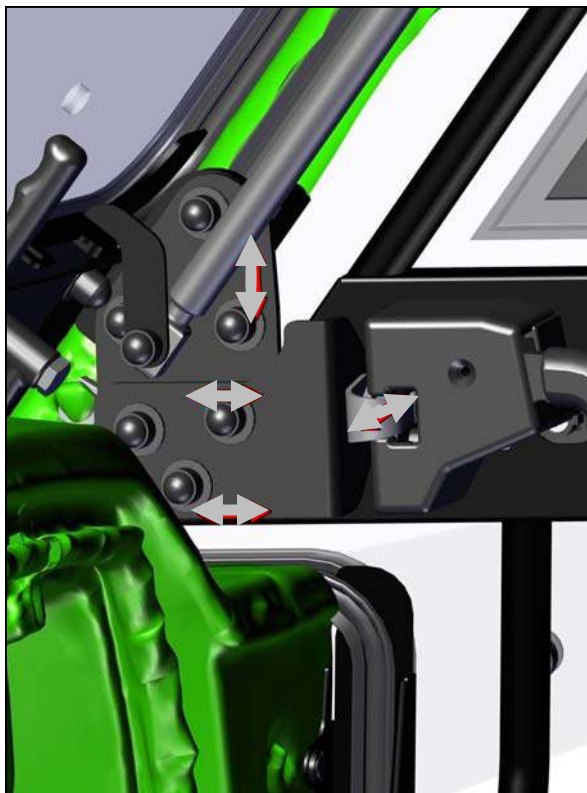


Fig. 8.8

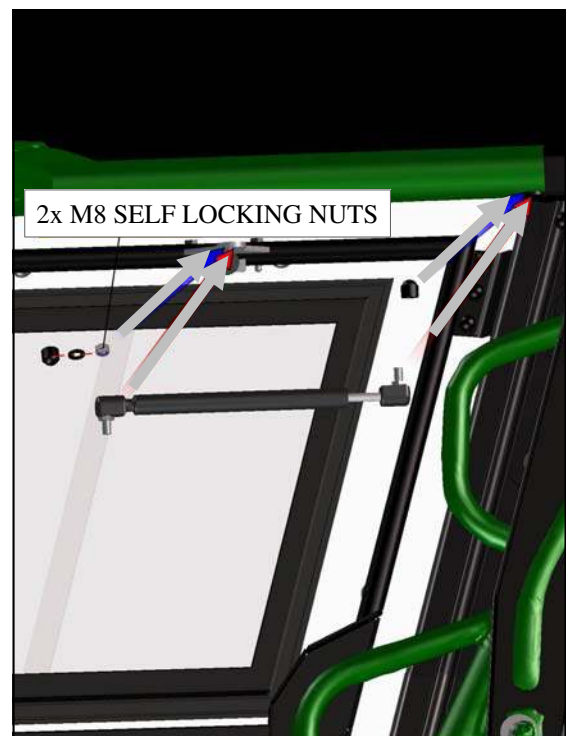


Fig. 8.9

## **8. FRONT DOORS (cont'd)**

**8.10** Adjust the door latch assembly and/or the door latch bracket assembly to the best position and tighten nuts firmly. Note: the door latch is a rotary type with two positions to close. Adjust door so that when fully closed door latch clicks twice for **total** engagement. If more adjustment is necessary, repeat previous steps.

## **9. OPTIONAL WIPER**

**9.1** If a separate wiper was purchased, follow the instructions included with that kit. **CAUTION:** the inside surface of the windshield is coated with a plasticized safety film. Use care to avoid scratching the inside surface.

## 10. FINISHING TOUCHES

**10.1** Fig. 10.1 shows the placement of a decal (supplied) on the passenger's side (Warning: Pinch Point). At the installer's discretion, apply one here and one on the driver's side.

**10.2** Per the side-by-side photos below, apply one decal (Warning: Pinch Point) where considered appropriate to indicate that when the steering wheel is tilted all the way up there is a pinch point to be aware of. Note: the left photo shows the steering wheel tilted all the way down and the right photo shows the steering wheel tilted all the way up.



Fig. 10.1

**Caution:** use care when tightening any flat head screw in countersunk holes in plastic components to avoid cracking. **Torque to 7 ft.-lbs. max.**

**IMPORTANT:** ROPS hardware must be torqued to the appropriate values on the BOLT TORQUE chart at the end of this manual.

Tighten all hardware at this time

Silicone sealant can be used to close up any small surface transition areas/openings around the entire cab.

If the doors do not seal properly, it is acceptable to use care and bend the door frames to fit better.





## SERVICE PARTS



Front Roof Assembly  
p/n: 8SV-5810-01F



Front Panel Assembly  
p/n: 8SV-4810-02



Rear Roof Assembly  
p/n: 8SV-5810-01R



Rear Panel Assembly  
p/n: 8SV-5810-06

## SERVICE PARTS



Left Front Door Assembly  
p/n: 8SV-4810-07L



Right Front Door Assembly  
p/n: 8SV-4810-07R



Left Rear Door Assembly  
p/n: 8SV-5810-07R-L

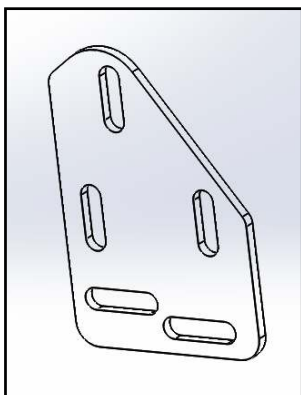


Right Rear Door Assembly  
p/n: 8SV-5810-07R-R

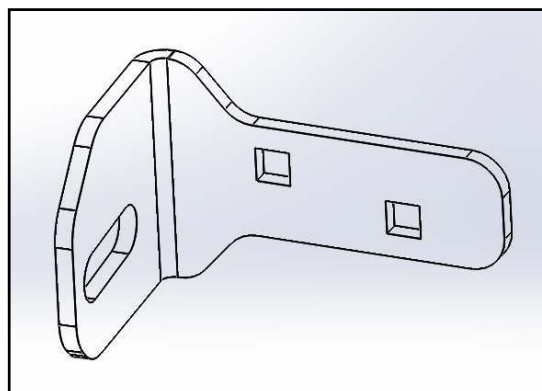
## ADDITIONAL SERVICE PARTS

Kawasaki Teryx4 ClearView Cab p/n: 1KAWT8004CV

PART NUMBER:	DESCRIPTION:
9SV-DSTRH	DOOR STRIKER KIT (SET OF 5)
9SV-00002	GAS SPRING (QTY.: 2) (FOR REAR DOORS)
9SV-00004	INSIDE DOOR LATCH, LEFT (QTY.: ONE)
9SV-00005	INSIDE DOOR LATCH, RIGHT (QTY.: ONE)
9SV-00006	INNER DOOR HANDLE (QTY.: ONE) (SAME ON ALL DOORS)
9SV-00007	OUTER DOOR LATCH (QTY.: ONE)
9SV-00025	FRONT HINGE (QTY.: 2)
9SV-00027	FRONT GLASS LOCK (METAL) (QTY.: 2)
9SV-00038	GAS SPRING HOLDER (QTY.: ONE)
9SV-00040	DOOR HANDLE (QTY.: ONE)
9SV-00041	LEFT INNER DOOR LOCK (QTY.: ONE)
9SV-00043	RIGHT INNER DOOR LOCK (QTY.: ONE)
9SV-00048	GAS SPRING (QTY.: 2) (FOR FRONT DOORS)
9SV-00091	GAS SPRING (QTY.: 2) (FOR WINDSHIELD)
9SV-00092	DOOR HINGE SLEEVE, RIGHT, UPPER (QTY.: ONE)
9SV-00093	DOOR HINGE SLEEVE, RIGHT, BOTTOM (QTY.: ONE)
9SV-00094	DOOR HINGE SLEEVE, LEFT, UPPER (QTY.: ONE)
9SV-00095	DOOR HINGE SLEEVE, LEFT, BOTTOM (QTY.: ONE)
9SV-00098	HARD PLASTIC WASHER WITH COUNTERSINK (QTY.: ONE)
9SV-00099	GAS TANK COVER ASSEMBLY (QTY.: ONE)
9SV-00100	RIGHT REAR DOOR HINGE ASSEMBLY (QTY.: 2)
9SV-00101	LEFT REAR DOOR HINGE ASSEMBLY (QTY.: 2)



Mounting Plate, Striker  
p/n: 8SV-SM-00621  
(qty.: one)



Striker Mount, Right (shown)  
p/n: 8SV-SM-00622-R (qty.: one)

Striker Mount, Left (not shown)  
p/n: 8SV-SM-00622-L (qty.: one)








# 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			