



## YAMAHA DRIVE2 GLIDE & RIDE

**Sandstone (p/n: 1VYDR2GR-SS)**

**Black (p/n: 1VYDR2GR-BK)**

**White (p/n: 1VYDR2GR-WT)**

**fits vehicle models:**

**Yamaha Drive Golf Cart**

**Yamaha Drive2 Golf Cart**



### Approximate Installation Time \*

Experienced Dealer Technician – 1.0 Hour

Average Dealer Technician – 1.5 Hours

Do-It-Yourself – 2.0 Hours

(\* = Not including accessories)

### Approximate Product Specifications

Weight: 148 lbs.

Cab Width: 53-3/4 inches

The contents of this envelope are the property of the owner. Leave with the owner when installation is complete.

Rev. F, 07/08/2021

P/N: IM-1VYDR2GR

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## WARNINGS, TIPS, & REQUIRED TOOLS

*Curtis cabs feature an assembly of parts designed for your vehicle which require adjustment and alignment of components to accommodate vehicle variations and provide proper weather protection. For accurate installation, proper operation, and years of satisfaction, please read and understand the installation and owner's manual fully prior to installing the cab.*

*From all of us at Curtis, we thank you for choosing our product.*

**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 Health and Safety Proposition 65 Warning:** This product may contain chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

## GENERAL INFORMATION BEFORE YOU START

### HELPFUL HINTS:

- Refer to parts diagram found in the service parts section of this manual to help identify parts during the assembly process.
- To assist with the cab installation, leave all fasteners loose for later adjustment unless otherwise specified.
- Read and understand all instructions before beginning.
- Use caution to avoid damaging the factory installed threaded inserts or weld nuts. Begin the thread engagement by hand to avoid or correct potential cross threading.
- Before installing parts with factory installed rubber, make sure the rubber is fully installed onto the parts for proper fit and sealing.

### TOOLS REQUIRED:

- Set of Standard and Metric Sockets (3/8" Drive)
- 3/8" Drive Ratchet and Long Drive Extension
- Set of Standard and Metric Open-End Wrenches
- Set of Standard and Metric Allen Wrenches
- #2 Phillips Head Screwdriver
- Long/Narrow Shaft Screwdriver
- Narrow Flat Head Screwdriver
- Torque Wrench
- Rubber Mallet or Plastic Dead Blow Hammer
- Awl
- Drill/Driver
- 5/16", 9/32" and 25/64" Drill Bits
- #2 Phillips Head Bit
- Utility Knife
- Shears
- Grease
- Threaded Insert Installation Tool (1/4-20)
- 5/16-18 Tap w/ Handle

# CAB INSTALLATION

## STEP 1: (VEHICLE PREP)

**1.1** Per figure 1.1, remove and discard the (2) sets of hardware found on the rear half of the factory roof.

### Tools Used

13mm Wrench  
13mm Socket

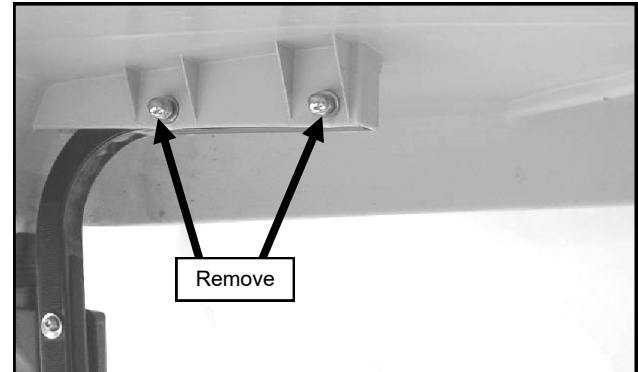


Fig. 1.1 (rear roof bolts - left side)

**1.2** Remove and discard the (2) sets of hardware found on the front half of the factory roof, per figure 1.2.

### Tools Used

13mm Wrench  
13mm Socket

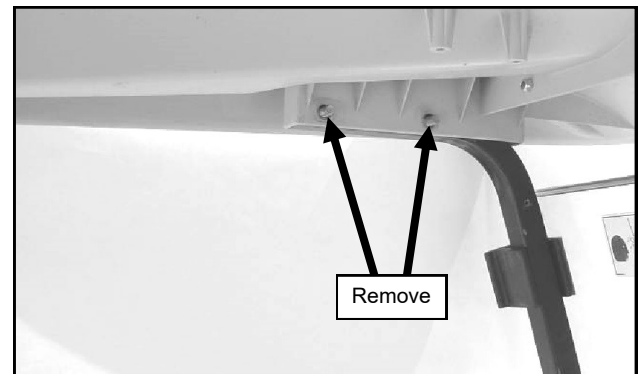


Fig. 1.2 (front roof bolts - left side)

**1.3** Remove and save the (2) drain tubes with mounting hardware and drain tube flexible boots, per figure 1.3. Set aside until Step 3.13 when they get re-installed.

### Tools Used

4mm Allen Wrench

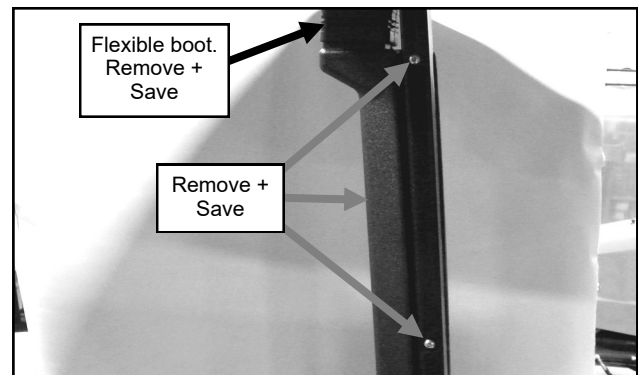


Fig. 1.3 (drain tube bolts - left side)

**1.4** Loosen hardware found on the back of the (2) rear roof supports, enough to have around 1/4" gap between the supports and seat back, per figure 1.4.

### Tools Used

13mm Socket

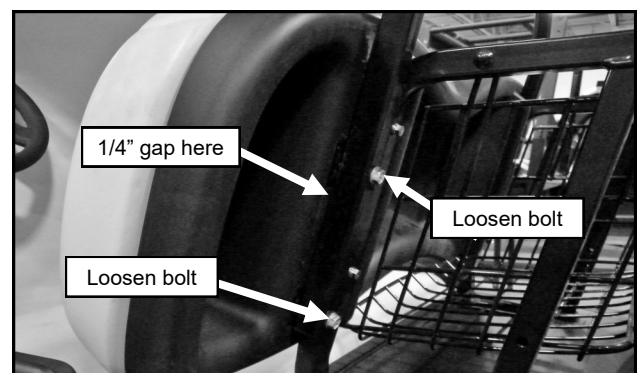


Fig. 1.4 (rear roof support - left side)

# CAB INSTALLATION

## STEP 1: (VEHICLE PREP cont'd.)

**1.5** Per figures 1.5a and 1.5b, peel up the back corners of the floor mat and remove the (2) plastic plugs and discard.

### Tools Used

Narrow Flat Head Screwdriver

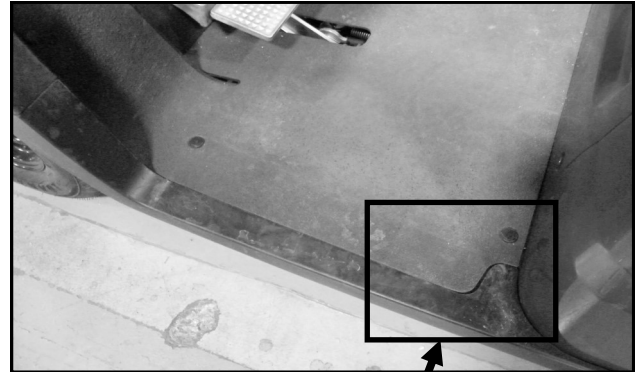


Fig. 1.5a (floor mat - left side)

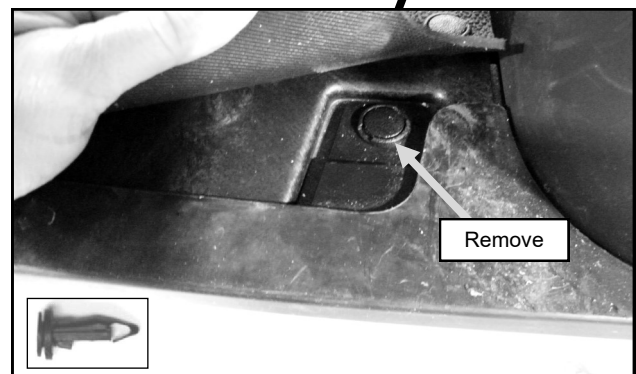


Fig. 1.5b (floor mat, remove rear plug - left side)

**1.6** Per figure 1.6, drill from the bottom of the floorboard through the floor mat using the plastic plug hole as a guide.

### Tools Used

5/16" Drill Bit  
Drill



Fig. 1.6 (floor mat, drill hole - left side)

**1.7** Per figure 1.7, remove the (2) plastic plugs on the front of the floor mat and discard.

### Tools Used

Narrow Flat Head Screwdriver

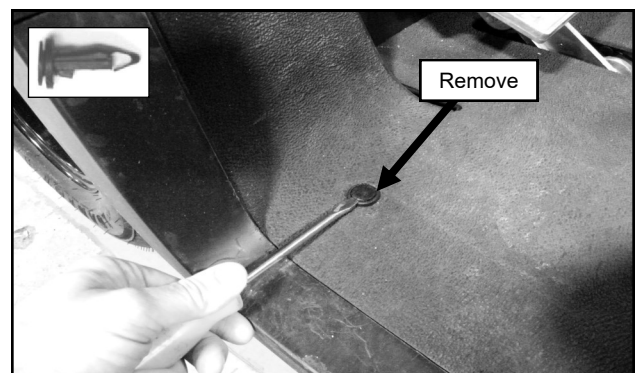


Fig. 1.7 (floor mat, remove plug - left side)

# CAB INSTALLATION

## STEP 1: (VEHICLE PREP cont'd.)

**1.8** Remove the windshield and its mounting hardware, set aside per figure 1.8

### Tools Used

11mm Socket

4mm Allen Wrench

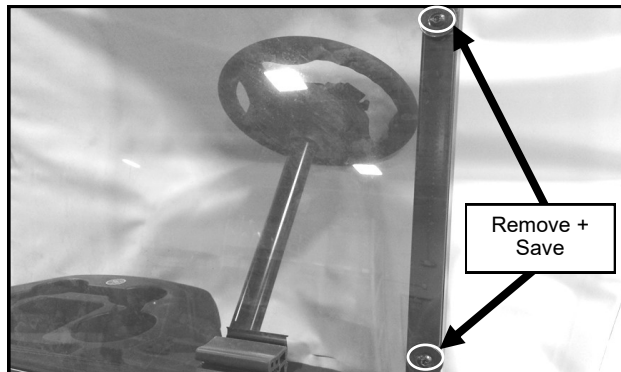


Fig. 1.8 (windshield removal - left side)

**1.9** Per figure 1.9, open up the lower (2) holes shown on each of the front roof supports. Next, install (4) threaded inserts into the opened up holes. **CAUTION!** Must use 25/64" drill, failure to do so will cause the insert to spin.

*Note: If installing heater kit p/n: 9PH20S70, only open up the (1) middle hole on each front roof support.*

### Tools Used

25/64" Drill Bit / Drill

Threaded Insert Installation Tool

### Hardware Used

1/4-20 Threaded Insert

Qty  
4

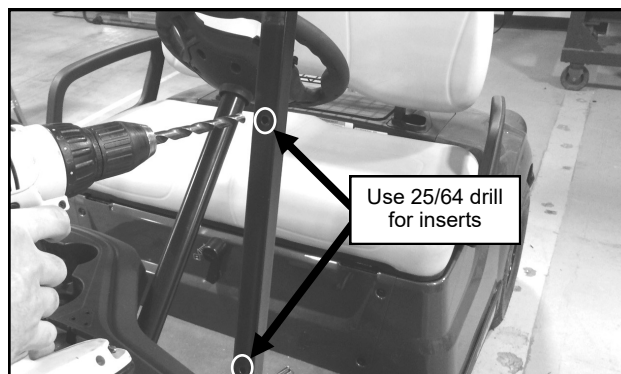


Fig. 1.9 (install threaded insert - left side)

## STEP 2: (CONTOUR RUBBER)

### ***For Drive Golf Cart Only***

*If installing Cab onto a Drive2 Golf Cart, proceed to step 3 on the next page.*

**2.1** Per figure 2.1, remove rubber on the left and right contours and set aside.

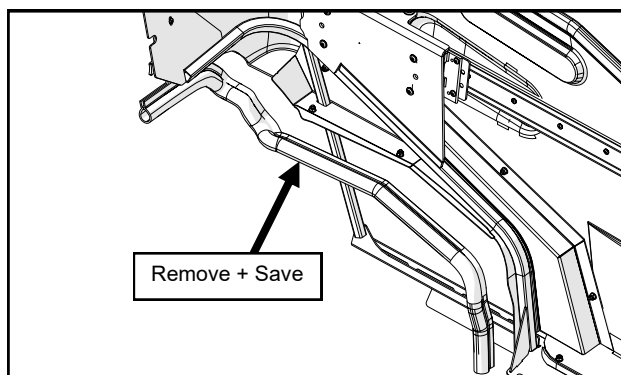


Fig. 2.1 (remove rubber - Drive only)

**2.2** Per figure 2.2, remove the left sheet metal filler and mounting hardware. Set aside the lower (2) #10 Self Drill Screws and discard the remaining hardware and filler. Repeat on the right side.

### Tools Used

#2 Phillips Head Bit or Screwdriver

Drill/Driver

3/8" Wrench

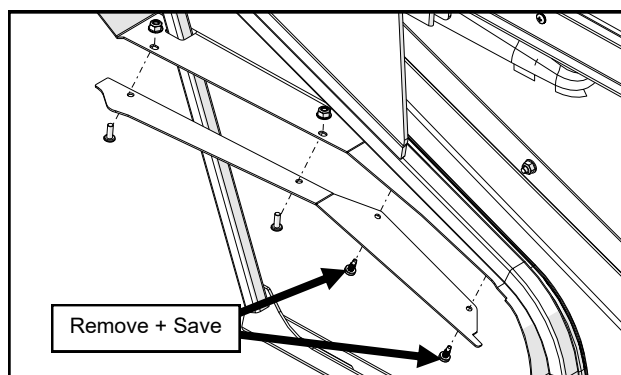


Fig. 2.2 (remove filler - Drive only)

# CAB INSTALLATION

## STEP 2: (CONTOUR RUBBER cont'd.)

**2.3** Re-install the lower (2) #10 Self Drill Screws removed on Step 2.2 on left contour, per figure 2.3. Repeat on the right side.

### Tools Used

#2 Phillips Head Bit or Screwdriver  
Drill/Driver

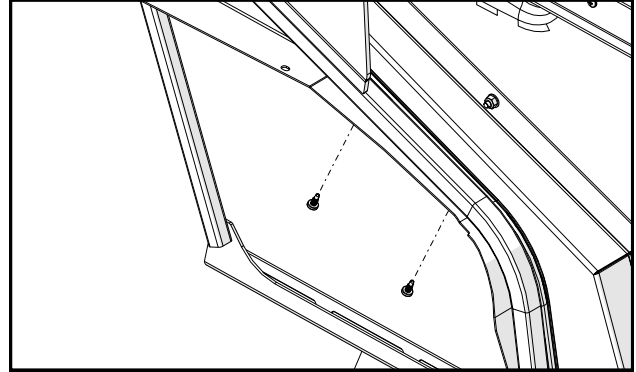


Fig. 2.3 (re-install lower (2) Screws - Drive only)

**2.4** Per figure 2.4, re-install contour rubber removed on Step 2.1. If needed, remove the excess rubber on the rear leg side of the left assembly. Repeat on the right side.

### Tools Used

Rubber Mallet or Plastic Dead Blow Hammer  
Shears

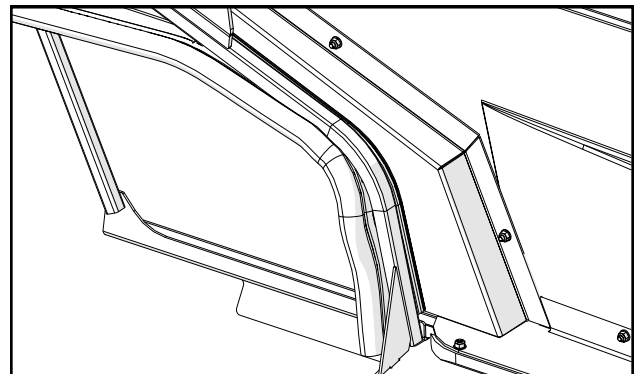


Fig. 2.4 (re-install rubber - Drive only)

## STEP 3: (SIDE FRAME ASSEMBLY)

**3.1** Per figure 3.1, with assistance, install the left side frame assembly by inserting the top front corner onto the vehicle so the mounting tabs are approximately where shown. Position the top front of the side frame assembly so the slotted bracket is up against the outside surface of the factory roof mounting area. Make sure the leading edge of the plastic front panel is inside the roof support tube. *Note: the side frame floorboard is to sit on top of the vehicle floor mat.*

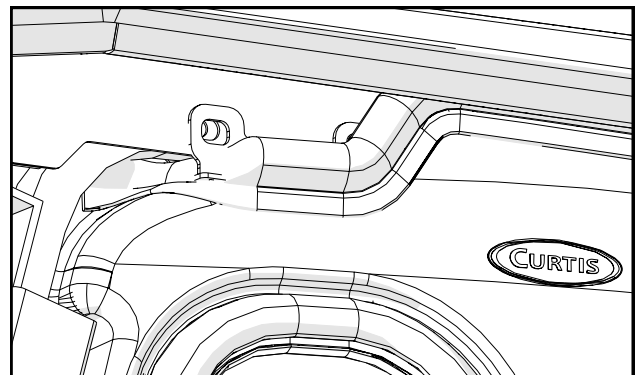


Fig. 3.1 (top front mount - left side)

**3.2** Per figure 3.2, position the top rear of the side frame assembly so the upper rear mount is up against the outside surface of the factory roof mount as shown.



Fig. 3.2 (upper rear mount - left side)

# CAB INSTALLATION

## STEP 3: (SIDE FRAME ASSEMBLY cont'd.)

**3.3** Per figure 3.3, position the lower rear portion of the side frame assembly so the open ended slots line up and go into the 1/4" gap behind the seat as shown.

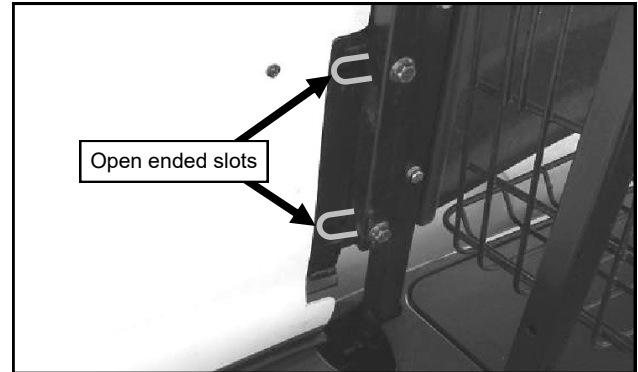


Fig. 3.3 (rear roof support - left side)

**3.4** Per figure 3.4a and 3.4b, lift and push the side frame floorboard in towards the center of the vehicle so the slots line-up with the holes found on the golf cart's floorboard. *Note: the side frame floorboard is to be on top of the rubber mat.*



Fig. 3.4a (floorboard mount - left side)

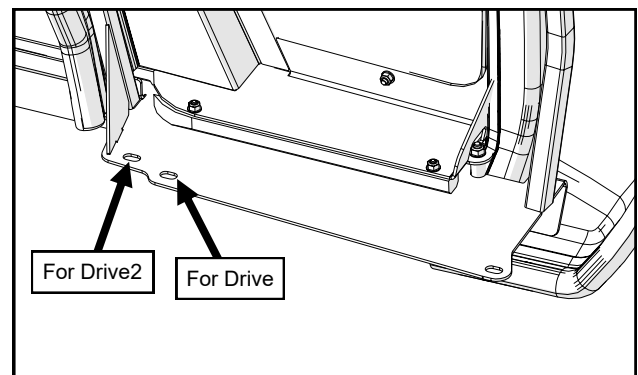


Fig. 3.4b (floorboard mount holes - left side)

**3.5** Per figure 3.5, install hardware and anchor strip into upper right mount. Leave bolts loose.

### Tools Used

1/2" Socket

### Hardware Used

5/16-18 X 2" FHCS

5/16" FENDER WASHER

### Qty

2

2

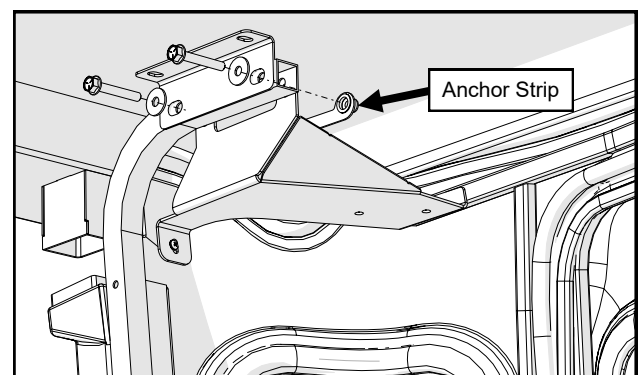


Fig. 3.5 (upper rear mount - left side)



# CAB INSTALLATION

## STEP 3: (SIDE FRAME ASSEMBLY cont'd.)

**3.6** Per figure 3.6, install hardware into left floorboard. Leave bolts loose.

### Tools Used

1/2" Socket  
3/16" Allen Wrench

### Hardware Used

	<u>Qty</u>
5/16-18 X 1-1/4" BHCS	2
5/16" FENDER WASHER	2
5/16" FLANGE LOCK NUT	2

**3.7** Per figure 3.7a, install windshield header on the inside surface of the factory roof mounting area. Install mounting hardware, per figure 3.7b. Leave bolts loose.  
*Note: In figure 3.7b, factory roof removed for clarity.*

### Tools Used

1/2" Socket  
1/2" Wrench

### Hardware Used

	<u>Qty</u>
5/16-18 X 2" FHCS	2
5/16" FENDER WASHER	4
5/16" FLANGE LOCK NUT	2

**3.8** Repeat Steps 3.1 to 3.7 on right side frame assembly.

**3.9** Check alignment of the (2) side frame assemblies to be as square as possible and torque all bolts as specified per table 3.9.

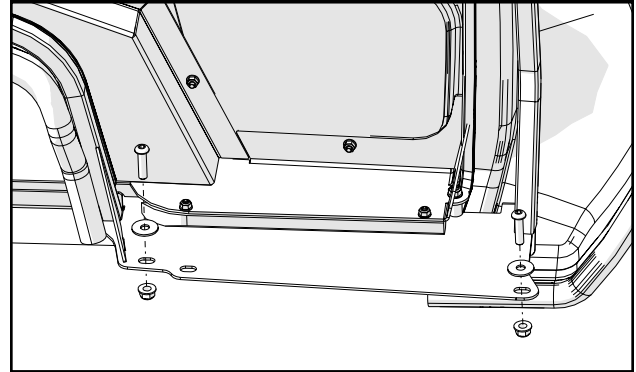


Fig. 3.6 (floorboard (Drive 2) - left side)

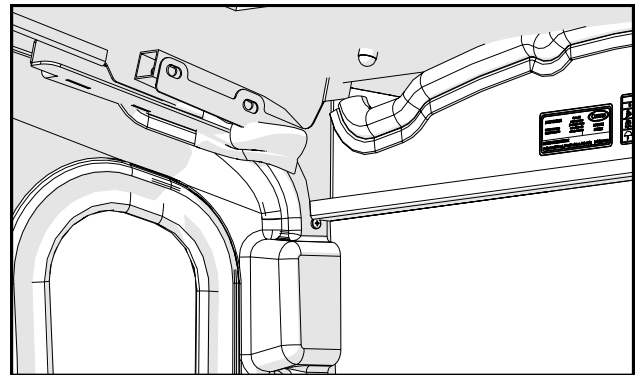


Fig. 3.7a (windshield header - left side)

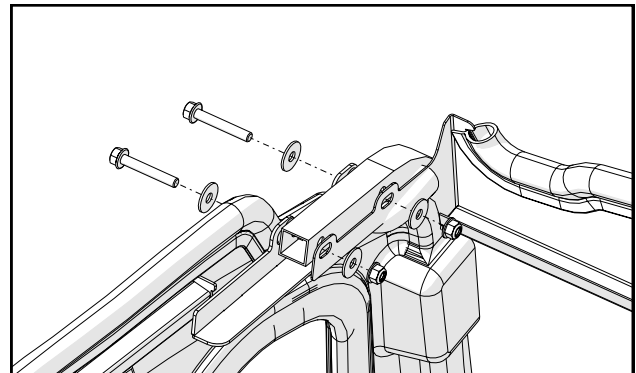


Fig. 3.7b (install hardware - no roof shown for clarity)

SIDE FRAME ASSEMBLY TORQUE SPEC	
BOLT LOCATION	TORQUE (IN-LBS)
SEAT BACK (2L, 2R)	195-205
FLOORBOARDS (2L, 2R)	85-95
UPPER REAR MOUNTS (2L, 2R)	85-95
TOP FRONT MOUNTS (2L, 2R)	85-95

Table 3.9 (torque specification table)

# CAB INSTALLATION

## STEP 3: (SIDE FRAME ASSEMBLY cont'd.)

**3.10** Make sure the front edge of the front left leg is flush with the front roof support tube, per figure 3.10. If needed, pull front edge of the leg forward and out. Install self-drill screws into the inside of the roof support tube, using pilot holes found on the front leg. Repeat on right side. *Caution: Be careful not to strip hardware when fully tightening into the roof support.*

### Tools Used

#2 Phillips Head Bit or Screwdriver  
Drill/Driver

### Hardware Used

#10 X 3/4" SELF-DRILL SCREW

### Qty

6

**3.11** Per figure 3.11, *if installing heater kit p/n: 9PH20S70* drill through the front legs using the lower (2) front roof support holes as pilot holes.

### Tools Used

9/32" Drill Bit  
Drill

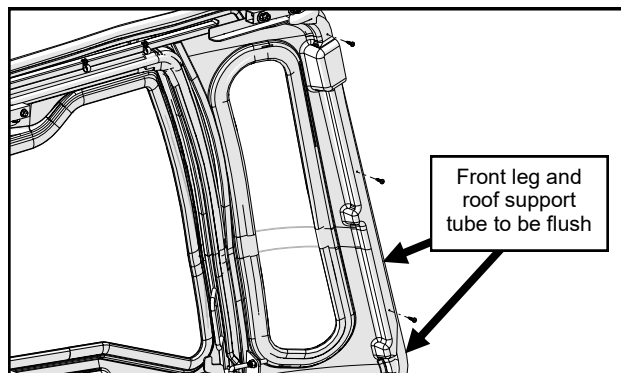


Fig. 3.10 (front leg - left side)



Fig. 3.11 (front leg - right side)

**3.12** Make sure the back edge of the rear left leg is flush with the rear roof support tube, per figure 3.12. Install self-drill screws into the inside of the roof support tube using pilot holes found on the rear leg. Repeat on right side.

### Tools Used

#2 Phillips Head Bit or Screwdriver  
Drill/Driver

### Hardware Used

#10 X 3/4" SELF-DRILL SCREW

### Qty

8

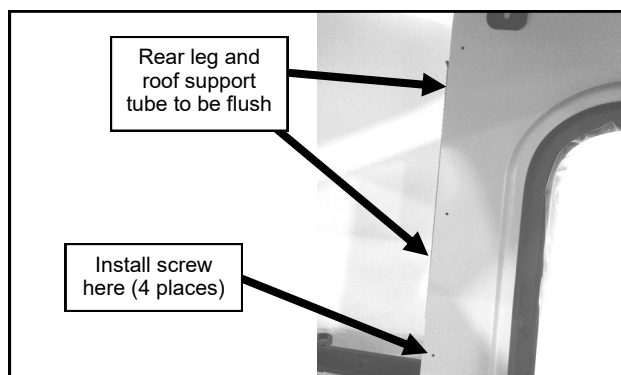


Fig. 3.12 (rear leg - left side)

**3.13** Re-install the previously removed drain tubes and drain tube flexible boots, per figure 3.13. Making sure to reconnect the bottom of the drain tubes with the black corrugated tubes inside the vehicle.

### Tools Used

4mm Allen Wrench

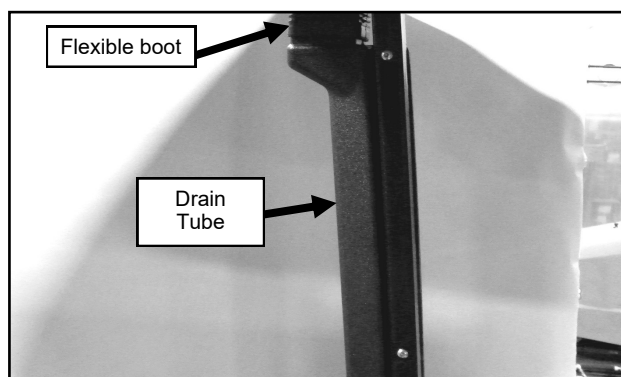


Fig. 3.13 (drain tube - left side)

# CAB INSTALLATION

## STEP 4: (WINDSHIELD)

**4.1** Per figure 4.1, install supplied 5/8" bulb rubber onto the bottom of windshield. Cut excess rubber as needed.

### Tools Used

Shears

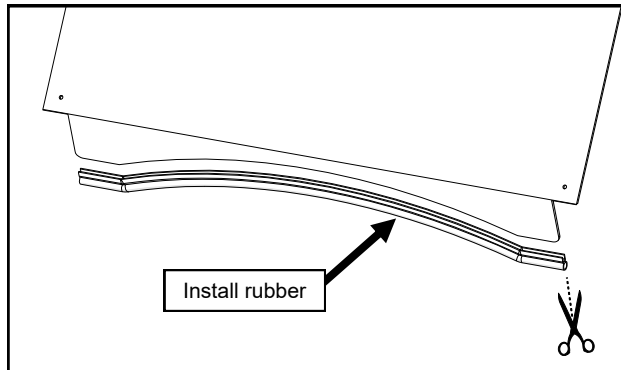


Fig. 4.1 (apply and cut rubber - windshield)

**4.2** Re-install windshield using supplied hardware, per figure 4.2.

### Tools Used

7/16" Socket

5/32" Allen Wrench

### Hardware Used

1/4-20 X 1-1/4" BHCS

1/4" FENDER WASHERS

### Qty

4

4

Note: If installing heater kit p/n: 9PH20S70, only install the upper hardware on each side & use heater kit supplied hardware at lower portion of windshield.

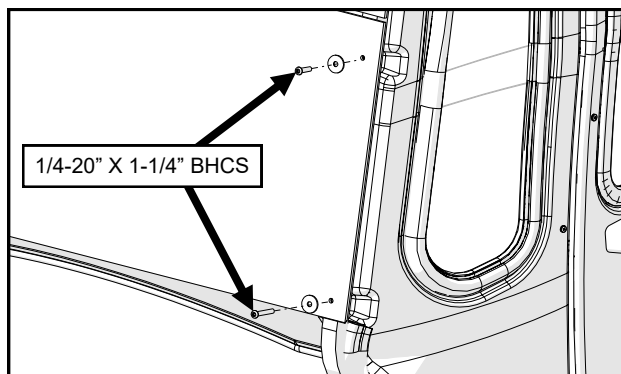


Fig. 4.2 (re-install windshield - left side)

## STEP 5: (DOOR ADJUSTMENT)

**5.1** Per figure 5.1a, check to see if there are any gaps between the door contour rubber and side frame contour tube. If there is, you will need to adjust the U-Bolt (Figure 5.1b) forward until the rubber is fully sealed.

### Tools Used

(2) 9/16" Wrenches

**5.2** If the door does not latch in the closed position consistently, adjust the U-Bolt (Figure 5.1b) backwards.

### Tools Used

(2) 9/16" Wrenches

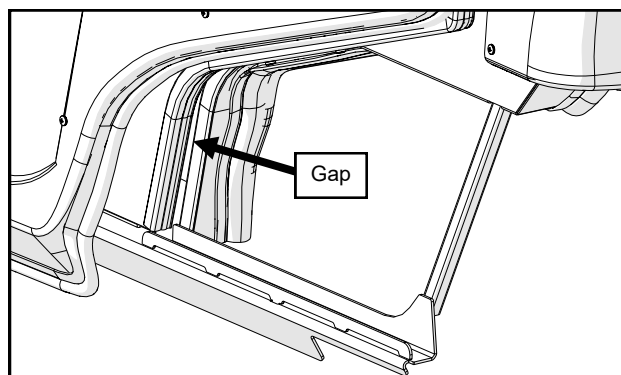


Fig. 5.1a (door contour gap - left side)

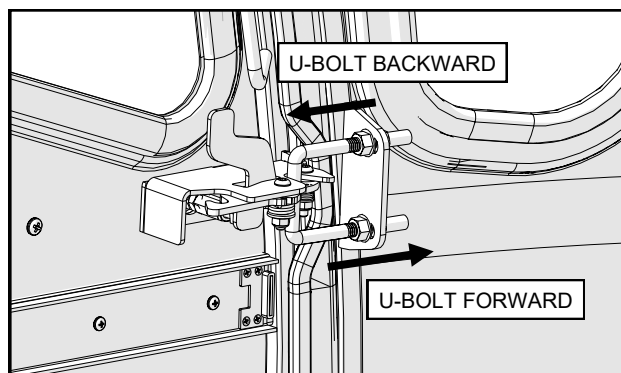


Fig. 5.1b (U-Bolt adjustment - left side)

# CAB INSTALLATION

## STEP 5: (DOOR ADJUSTMENT cont'd.)

**5.3** Check the seal on the front edge of the door. If there is a gap, adjust the U-Bolt inwards until there is no longer a gap (Figure 5.3). Make sure you are able to close the door without significant force to latch the door. If you have difficulty latching the door, adjust the U-Bolt outwards.

### Tools Used

(2) 9/16" Wrenches

**5.4** Once U-bolt is adjusted, install one of the two supplied options of thread coverage.

### Hardware Used

PLASTIC MOLDED NUT COVERS  
PLIABLE PUSH-ON CAPS

### Qty

4  
4

**5.5** Slide the door back and forth (without latching) to see how well the door slides. If the door is hard to operate, the following steps will need to be done:

- 1.) Slide the door forward, right before you start to collapse the hinges (per Fig. 5.4a)
- 2.) Loosen the (4) hinge plate fasteners, per figure 5.4b.
- 3.) With assistance, lift-up on the outside door handle, insert a long/narrow shaft screwdriver into the door hinge (per Fig. 5.4b) and lift-up on the screwdriver's handle. Next, slide a taped up 5/32" shim under the front edge of the guide block, per figure 5.4a. Be careful not to scratch the floorboard.
- 4.) Slowly lower the door while still applying an upward force on the screwdriver. Next, tighten the (4) hinge plate fasteners.
- 5.) Check to see how well the door slides now. If it is still difficult, repeat steps 1-4 with a thicker set of shim(s) until the door slides well.

### Tools Used

5/32" Allen Wrench  
Long/Narrow Shaft Screwdriver

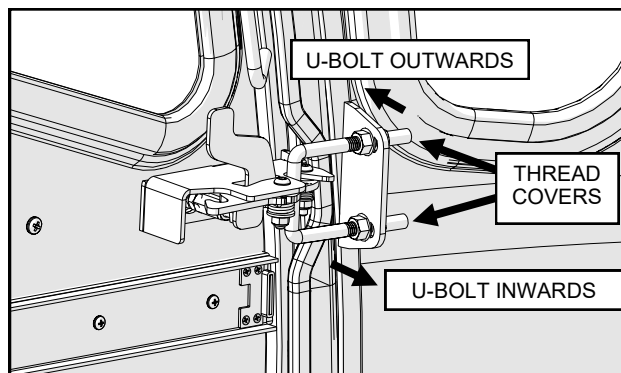


Fig. 5.3 (U-Bolt adjustment - left side)

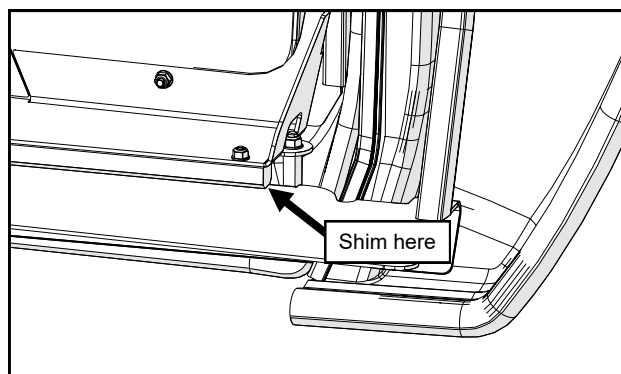


Fig. 5.5a (floorboard shim - left side)

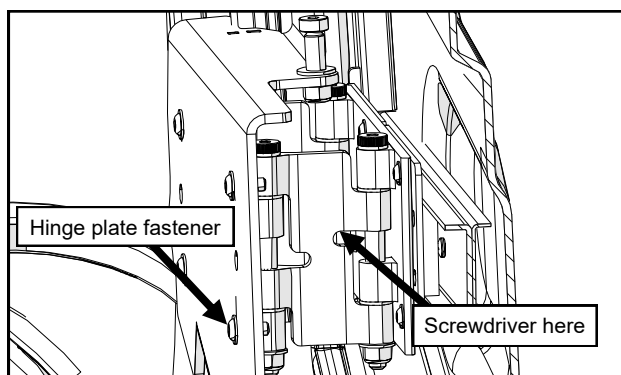


Fig. 5.5b (hinge plate - left side)

## STEP 6: (PINCH GUARD)

**6.1** Per figure 6.1, install pinch guard by hand with supplied hardware on hinge mounting bracket as shown on both the left and right sides. If it difficult to install, use a tap to clean the threads of the weld nuts.

### Hardware Used

5/16-18 X 3/4" FHCS

### Qty

4

### Tools Used

1/2" Wrench or Socket  
5/16-18 Tap w/ Handle (If Needed)

*The cab installation is complete.*

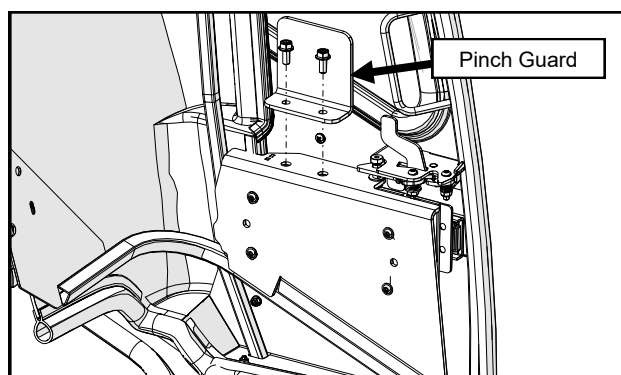


Fig. 6.1 (Pinch Guard Install - left side)

## CAB FEATURES & OPERATION

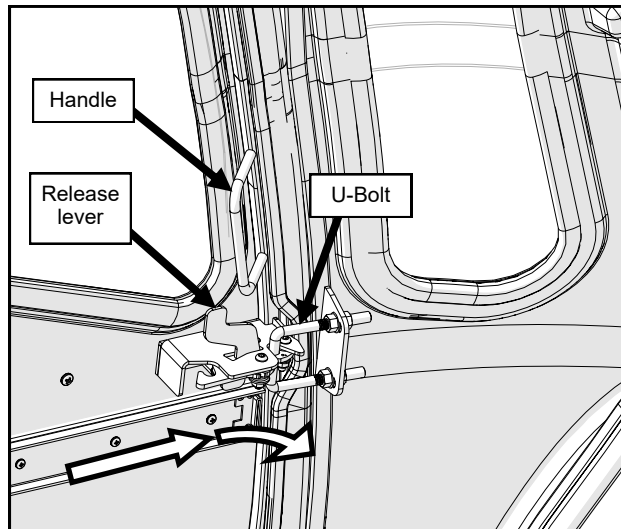
### DOOR OPERATION

#### *Closing the door:*

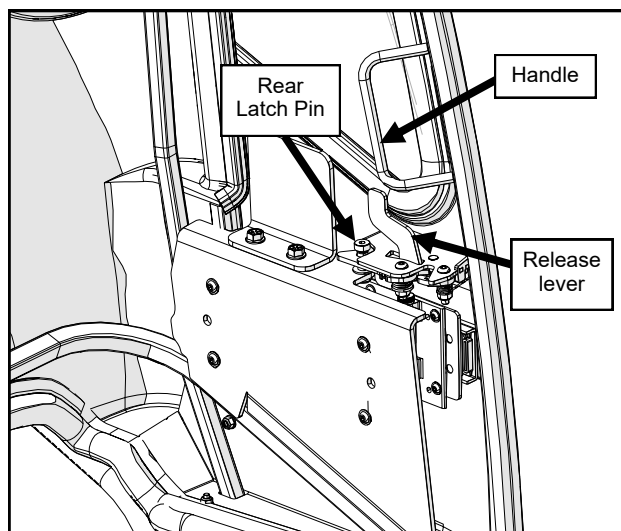
Slide the door forward by holding the door handle, when getting close to the U-Bolt pull the door in (see figure to the right). The door will latch to the U-Bolt as shown. To open the door, pull on the release lever in towards the center of the golf cart and slide the door back.

#### *Latching the door open:*

Slide the door backwards by grabbing the handle until it latches around the rear latch pin. To release the door, pull the release lever in towards the center of the golf cart.



Door Operation (closed)



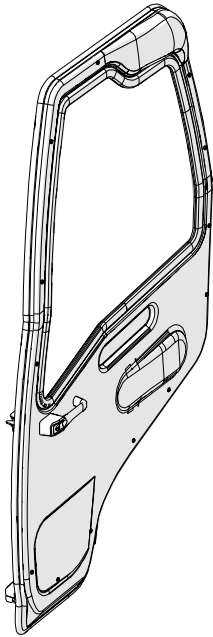
Door Operation (open)

## CARE AND MAINTENANCE

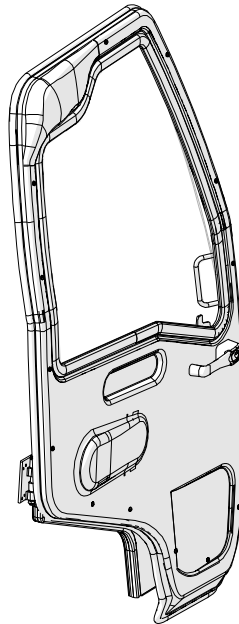
- Re-apply lubrication (preferably grease) periodically as needed to the door latch assemblies and the door hinges.
- Check and tighten hardware after 40 hours of operation. Periodically inspect and tighten hardware for the remainder of the unit's life.
- Wash the painted surfaces of the cab with commercial automotive cleaning products.
- Windows on the cab are acrylic. **DO NOT** clean acrylic windows with harsh chemicals. It will damage the plastic. Mild soap and water should be used on all acrylic windows.

# YAMAHA DRIVE2 GLIDE & RIDE CAB SERVICE PARTS

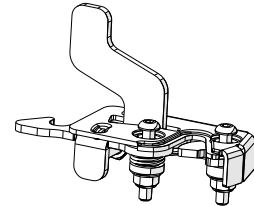
DOOR ASSEMBLY, LEFT  
PART NUMBERS:  
8SV-7-00022-LBK (BLACK)  
8SV-7-00022-LSS (STANDSTONE)  
8SV-7-00022-LWT (WHITE)



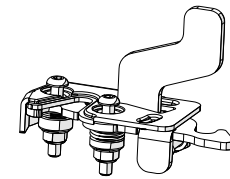
DOOR ASSEMBLY, RIGHT  
PART NUMBERS:  
8SV-7-00022-RBK (BLACK)  
8SV-7-00022-RSS (STANDSTONE)  
8SV-7-00022-RWT (WHITE)



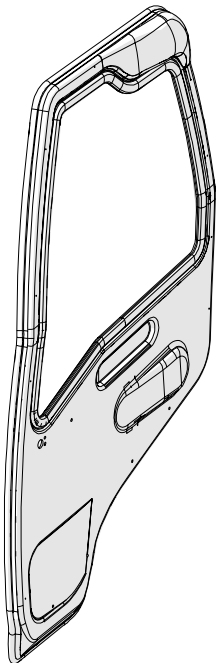
DUAL LATCH, ROTARY & SLAM, LEFT  
P/N: 8SV-9DL08A



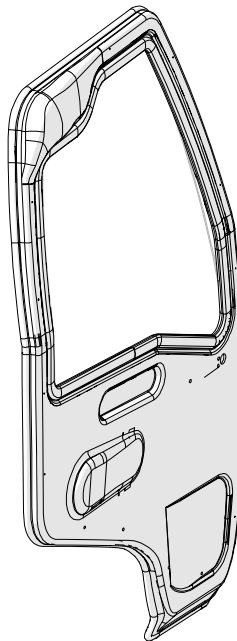
DUAL LATCH, ROTARY & SLAM, RIGHT  
P/N: 8SV-9DL08B



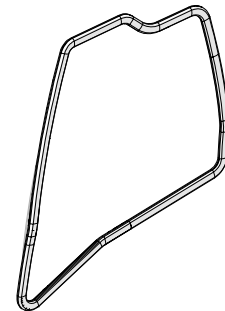
DOOR SKIN W/ WINDOW, LEFT  
PART NUMBERS:  
8SV-YDGR-LDS-BK (BLACK)  
8SV-YDGR-LDS-SS (STANDSTONE)  
8SV-YDGR-LDS-WT (WHITE)



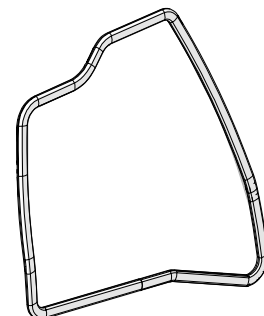
DOOR SKIN W/ WINDOW, RIGHT  
PART NUMBERS:  
8SV-YDGR-RDS-BK (BLACK)  
8SV-YDGR-RDS-SS (STANDSTONE)  
8SV-YDGR-RDS-WT (WHITE)



ACRYLIC DOOR WINDOW W/RUBBER-L  
P/N: 8SV-PGCC2L

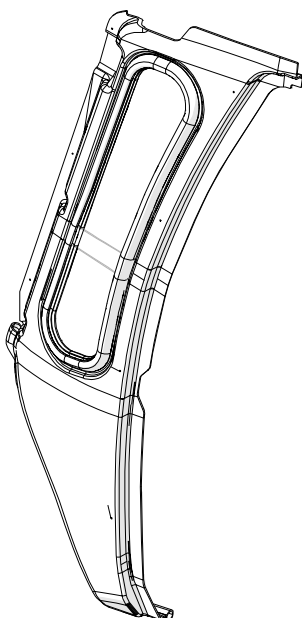


ACRYLIC DOOR WINDOW W/RUBBER-R  
P/N: 8SV-PGCC2R

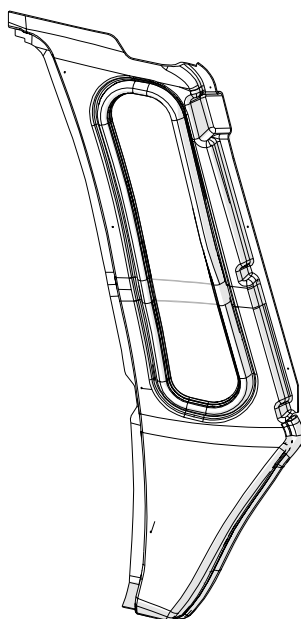


# YAMAHA DRIVE2 GLIDE & RIDE CAB SERVICE PARTS

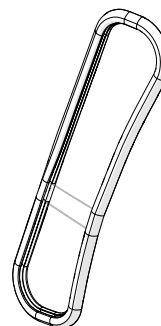
FRONT LEG ASSEMBLY, LEFT  
PART NUMBERS:  
8SV-4-00013-LBK (BLACK)  
8SV-4-00013-LSS (STANDSTONE)  
8SV-4-00013-LWT (WHITE)



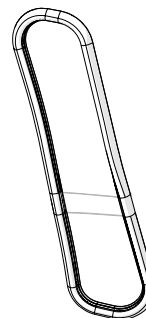
FRONT LEG ASSEMBLY, RIGHT  
PART NUMBERS:  
8SV-4-00013-RBK (BLACK)  
8SV-4-00013-RSS (STANDSTONE)  
8SV-4-00013-RWT (WHITE)



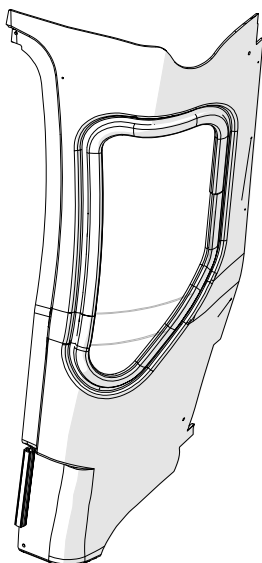
ACRYLIC FRONT WINDOW-L W/RUBBER  
P/N: 8SV-PG7X32L



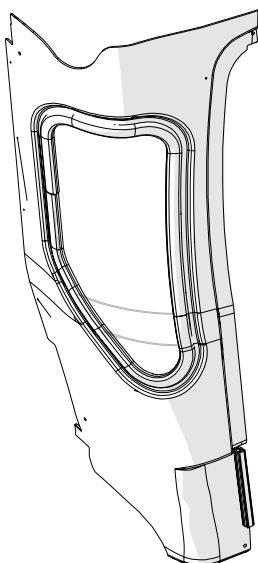
ACRYLIC FRONT WINDOW-R W/RUBBER  
P/N: 8SV-PG7X32R



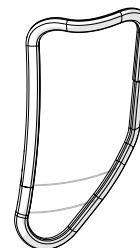
REAR LEG ASSEMBLY, LEFT  
PART NUMBERS:  
8SV-8-00011-LBK (BLACK)  
8SV-8-00011-LSS (STANDSTONE)  
8SV-8-00011-LWT (WHITE)



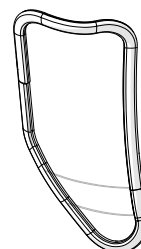
REAR LEG ASSEMBLY, RIGHT  
PART NUMBERS:  
8SV-8-00011-RBK (BLACK)  
8SV-8-00011-RSS (STANDSTONE)  
8SV-8-00011-RWT (WHITE)



ACRYLIC REAR WINDOW-L, W/RUBBER  
P/N: 8SV-PG9X21L

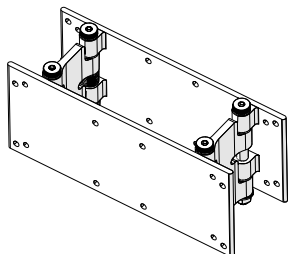


ACRYLIC REAR WINDOW-R, W/RUBBER  
P/N: 8SV-PG9X21R

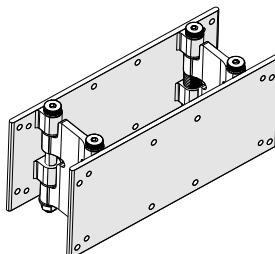


# YAMAHA DRIVE2 GLIDE & RIDE CAB SERVICE PARTS

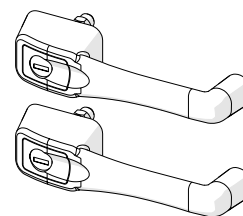
HINGE ASSEMBLY, LEFT  
P/N: 8SV-113-00118-L



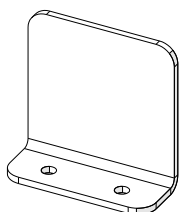
HINGE ASSEMBLY, RIGHT  
P/N: 8SV-113-00118-R



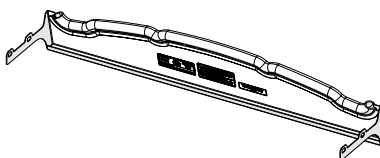
OUTSIDE HANDLE ROTARY LATCH  
KIT (SET OF 2); P/N: 9SV-OHRL



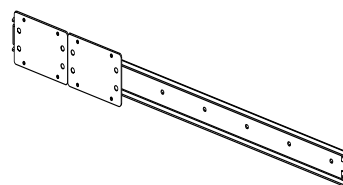
PINCH GUARD  
P/N: 8SV-SM-01078



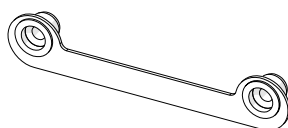
WINDSHIELD HEADER ASSEMBLY  
P/N: 8SV-103-00012



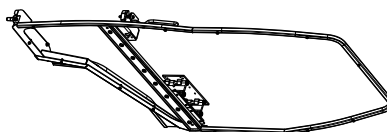
SLIDE RAIL W/ (2) SLIDERS  
P/N: 9SV-SR01



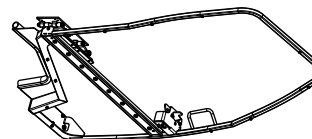
ANCHOR STRIP  
P/N: 8SV-113-00119








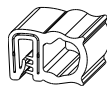

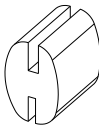
DOOR FRAME ASSY, LEFT, NO SKIN  
P/N: 8SV-YDGR-LDF-NS



DOOR FRAME ASSY, RIGHT, NO SKIN  
P/N: 8SV-YDGR-RDF-NS



## ADDITIONAL SERVICE PARTS

PART NUMBER	DESCRIPTION					
9SV-HWK-00081	HARDWARE KIT YAMAHA DRIVE2 GLIDE & RIDE					
9SV-9DL01H	KEYS, SET OF 2 ON A RING, FOR HANDLE 1096-1, KEY CODE C40					
8SV-YDR2GRDLHK	DOOR LATCH HARDWARE KIT (CONTAINS TEN M8 SCREWS AND NUTS)					
TRIM-LOK, 3/16" GRIP	5/8" STD BULB, 1/16" GRIP	5/8" STD BULB, 1/4" GRIP	ARCH PSA RUBBER, 3/4" WD X 3/8" TALL	BALL CAGE RUBBER	3/4" SIDE BULB, 1/16" GRIP	1" ROUND BULB, 1/16" GRIP
						
9SV-PRO1B-10	9SV-PRO2-15	9SV-PRO7-5	9SV-PRO9-10	9SV-PR11-10	9SV-PR17-5	9SV-PR19-10
WINDOW RUBBER, ACRYLIC MOUNT						
						
9SV-PR31-10						










# 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			
Inches	Millimeters	Pounds Feet		Newton-Meters		Pounds Feet		Newton-Meters		Pounds Feet		Newton-Meters	
Min.	Max.	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