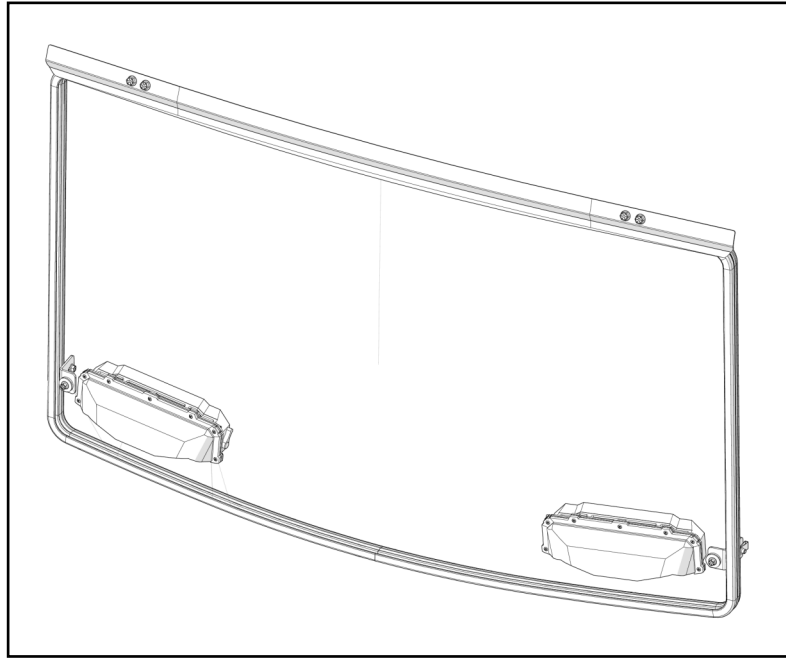




Polaris Ranger 1000 Windshield Kit **Kit p/n:1POLXP1000WS**

Fits UTV Models:
POLARIS RANGER 1000 & XP 1000



Available Options:

1. Door Kit (P/N: 1POLXP1000DR)
2. Roof Kit (P/N: 1POLXP1000RF)
3. Rear Panel Kit (P/N: 1POLXP1000RP)
4. Front Wiper Kit (P/N 1POLXP1000WK)
5. Side View Mirrors (P/N: 9PM5)
6. Door Restraint Kit (P/N: 1POLXP1000GS)

Approximate Installation Time *

Experienced Dealer Technician – 15 minutes

Average Dealer Technician – 20 minutes

Do-It-Yourself – 30 minutes

(* = Not including accessories)

Approximate Product Specifications

Weight: 17.5 lbs.

Register your new product quickly online at
Curtiscab.com/product-registration/



Curtis encourages all customers to register their Curtis products. However, failure to do so will not diminish right to warranty. Curtis Industries does not sell or share your information with anyone else.

Download a digital copy of your installation instructions online at Curtiscab.com/literature/



Curtis strives to continuously improve our products, technical documentation, etc. Therefore, the installation manual for this product may have been updated after your product was packaged. The latest revision of the installation manual can always be found at the website above.

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

Rev. B, 12/28/2022

p/n: IM-1POLXP1000WS

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WARNINGS, TIPS, & REQUIRED TOOLS

Curtis cabs, kits, and accessories 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 windshield kit.

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 windshield installation, leave all fasteners loose for later adjustment unless otherwise specified.
- Read and understand all instructions before beginning.
- Make sure the areas where the supplied self-adhesive hook Velcro will be applied are clean and dry and at room temperature for best adhesion.
- 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 Allen Wrenches
- Scissors

KIT INSTALLATION

STEP 1: (VEHICLE PREP)

If installing a wiper on this windshield, start by installing that first. If installing multiple Curtis Polaris Ranger 1000 kits, install in the following order.

1. Doors
2. Windshield
3. Rear Panel
4. Roof

- 1.1 Per figure 1.1, install 1" wide foam tape on the seam (gap) between the ROPS and the Windshield Mount on both the let and right side of the vehicle.

Tools required:

Scissors

- 1.1 Per figure 1.2, install both the left and right lower W/S corner seals (with adhesive on back side of seal) making sure hole in seal is centered on the vehicle's plastic rivet as shown.

STEP 2: (KIT INSTALLATION)

- 2.1 Per figure 2.1, install lower W/S Mounting Brackets using supplied hardware onto the (2) tabs found on the lower left and right side of the ROPS. Slide the brackets all the way back and do not fully tighten down the screws at this point.

Hardware Used

	<u>Qty</u>
1/4-20 X 5/8 Hex Head Flange Screw	2
1/4-20 Clip Nut	2

Tools required

3/8" socket or wrench

- 2.2 Per figure 2.2, install W/S Hold Down Bracket onto the vehicle windshield mount. Install outside screws first. The bracket will bend around the vehicle easily when installing the bolts. Leave bolts loose so there is a large enough of a gap for the windshield to be installed.

Hardware Used

	<u>Qty</u>
5/16-18 X 3/4 Flange Button Head Screw	4
5/16-18 Hex Flange Lock Nut	4

Tools required

3/16" Allen Wrench

1/2" socket and wrench



Fig. 1.1 (Install 1" Foam Tape to W/S Support)

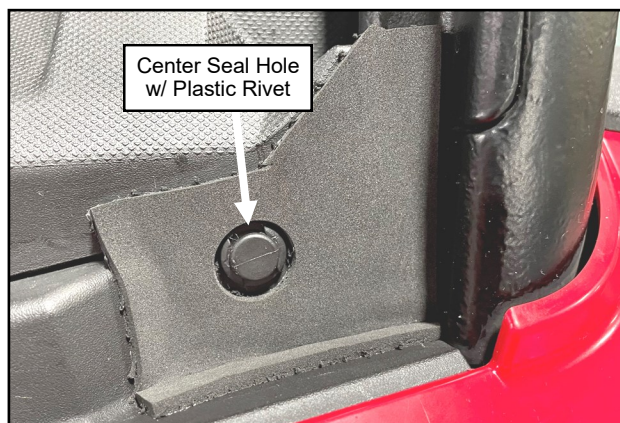


Fig. 1.2 (Install W/S Lower Corner Seal, Left)

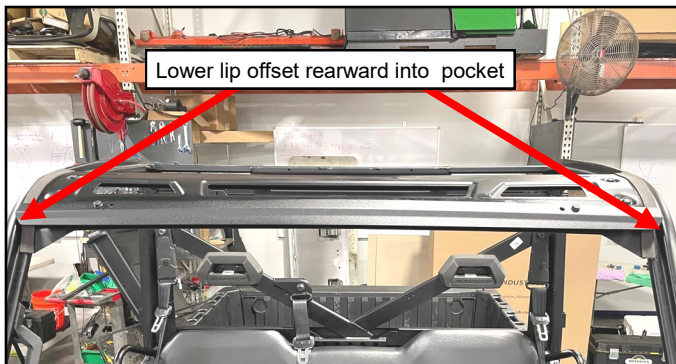


Fig. 2.2 (Install W/S Hold Down Bracket, Left)

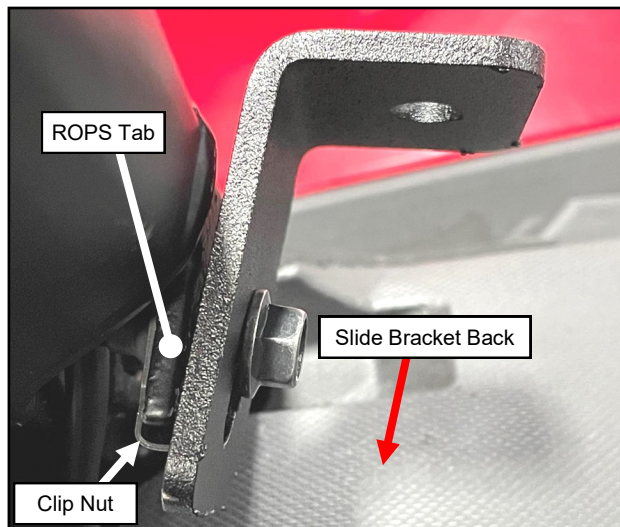


Fig. 2.1 (Install Lower W/S Mount Bracket to ROPS)

KIT INSTALLATION

STEP 2: (KIT INSTALLATION CONT'D.)

2.3 Per figure 2.3, install the windshield into the w/s opening found on the vehicle. Slide the top of the w/s into the formed hold down bracket. Install supplied hardware into the lower mounting brackets (do not fully tighten). Making sure to install rubber washer against the outside of the windshield.

Hardware Used

	<u>Qty</u>
1/4-20 X 1 Hex Head Flange Screw	2
1/4-20 X 1 Hex Flange Lock Nut	2
1/4 X 1 Rubber Washer	2
1/4 X 1 Fender Washer	2

Tools required

3/8" socket and wrench
7/16" socket and wrench

2.4 Per figure 2.4, push-up on the bottom edge of the windshield and fully tighten down W/S Hold Down Bracket. If needed, you can adjust lower mounting brackets to get a proper seal on the windshield. Once the seal looks good, fully tighten down the lower mounting bracket hardware (both through W/S and ROPS tabs). The kit is now fully installed.

Tools required

1/2" socket and wrench
3/8" socket and wrench
7/16" socket and wrench

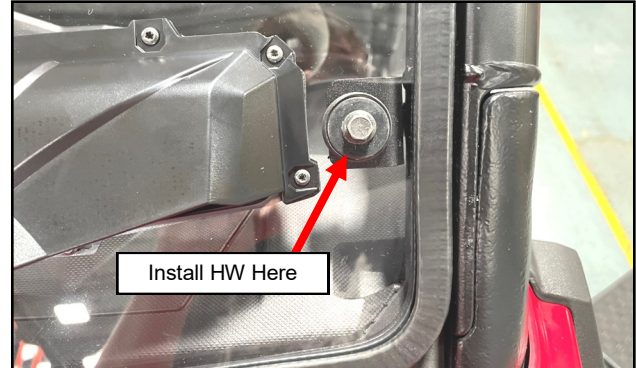


Fig. 2.3 (Install Hardware into Lower Bracket)

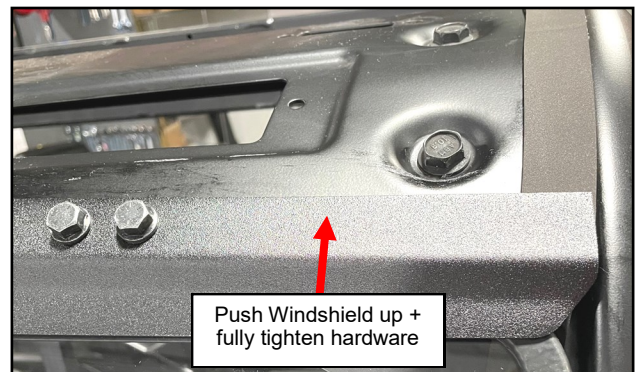


Fig. 2.4 (Fully Tighten Down W/S Hold Down Bracket)

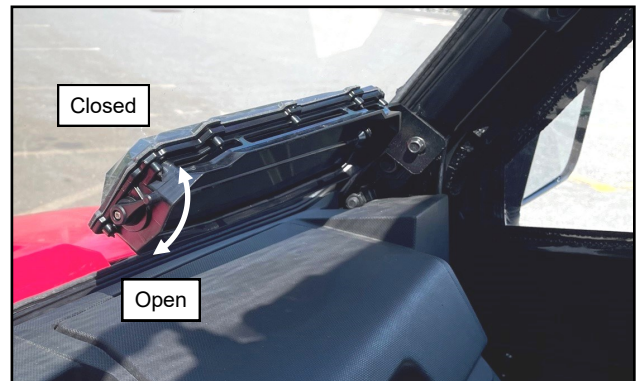
KIT FEATURES & OPERATION

WINDSHIELD VENTS

For ventilation, (2) vents have been provided in this windshield.

To Operate Vents:

1) Rotate vent lever away from the windshield to open and towards windshield to close.



Windshield Vent

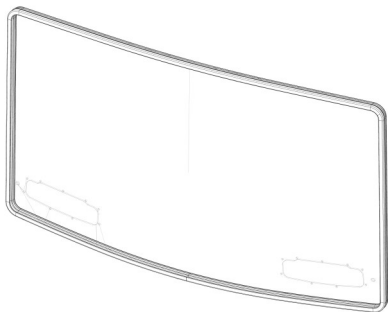
CARE AND MAINTENANCE

- Check and tighten hardware after 40 hours of operation. Periodically inspect and tighten hardware for the remainder of the unit's life.
- **DO NOT** clean polycarbonate windows with harsh chemicals. It will damage the plastic. Mild soap and water should be used on the windshield.

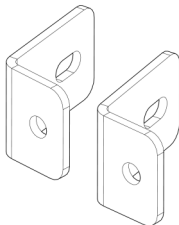
POLARIS RANGER 1000 WINDSHIELD KIT

SERVICE PARTS

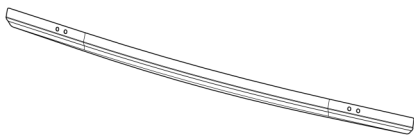
WINDSHIELD, 50.57 X 29.40 W/ RUBBER
P/N: 8SV-P-00135



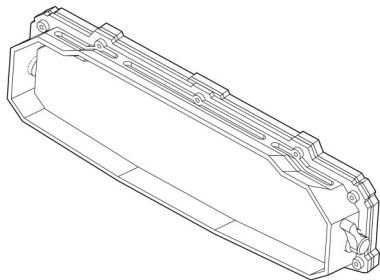
LOWER MNT BRACKETS (PAIR)
P/N: 8SV-SM-01925



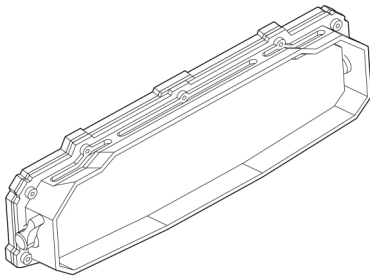
W/S HOLD DOWN BRACKET
P/N: 8SV-SM-01991



LOUVERED VENT, LEFT
P/N: 9SV-9HR-00023-L



LOUVERED VENT, RIGHT
P/N: 9SV-9HR-00023-R

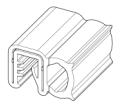


FOAM TAPE,
1/8" X 1"



9SV-PR39-5

1/2" SIDE BULB
WITH 1/4" GRIP



9SV-PR29-15








Torque Specs. for Structural Bolts

This page is for use primarily when dealing with high-strength vehicle fasteners such as ROPS hardware that hold the structure together for safety. This page can also be used for other solid metal-to-metal joints. **Do not** use these high torque values on any of the following applications involving: tubing, plastic, nylon or rubber washers, threaded inserts, etc.. See next page regarding less critical fasteners.

The values below apply to fasteners that are dry or 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 the same grade or property class 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



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

Tightening of Non-Structural Bolts

For light or medium duty fastening, Curtis recommends using a general industry standard of tightening until snug and then giving an additional one quarter turn of the tool as deemed reasonable for the application (i.e.: at the installer's discretion).

If torque values are required, the examples listed below are intended as a reasonable reference for use in the majority of non-structural fastener applications such as: small diameter fasteners; bolts passing thru tubing, glass, plastic, nylon or rubber washers, threaded inserts, etc.

If more than one application below applies, use the lower torque value.

FASTENER SIZE:	FASTENER TYPE:	WASHER MATERIAL:	APPLICATION:	TORQUE (INCH-POUNDS) (±5)
#10	Machine Screws	-	in Nylon P-Clamps	20
#10	Machine Screws	-	Strobe Light (plastic base)	35
M5	Set Screws	-	Wiper Arm	20
1/4"	Cap Nut	-	Windshield Wiper	20
1/4"	Bolts	-	Tubing (5/8" to 3/4" wide)	132
1/4"	Bolts	Rubber	-	60
1/4"	Bolts	Nylon / Plastic	-	72
1/4"	Bolts	-	Factory Installed Threaded Inserts	132
5/16"	Bolts	-	Tubing (1" or wider)	60
5/16"	Flat Head Bolts	-	Plastic Windshield Hinge	79
5/16"	Bolts	Rubber	-	120
5/16"	Bolts	Nylon / Plastic	-	150
5/16"	Ball Studs	-	-	150
5/16"	Bolts	-	Factory Installed Threaded Inserts	240
3/8"	Bolts	-	Tubing	120
M12	Door Striker Pins	-	-	120