INSTALLATION INSTRUCTIONS
4 DOOR ROOF RACK KIT
Part Number: 112681
Application: Polaris Ranger 1000 and Ranger 1000 XP

GENERAL SAFETY PRECAUTIONS

Your safety, and the safety of others, is very important. To help you make informed decisions about safety, we have provided installation and operating instructions and other information on labels and in this guide. This information alerts you to potential hazards that could hurt you or others. It is not possible to warn you about all potential hazards associated with this product, you must use your own good judgment.

CARELESS INSTALLATION AND OPERATION CAN RESULT IN SERIOUS INJURY OR EQUIPMENT DAMAGE. READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND OPERATING INSTRUCTIONS BEFORE INSTALLING AND OPERATING THIS PRODUCT.

This guide identifies potential hazards and has important safety messages that help you and others avoid personal injury or death. WARNING and CAUTION are signal words that identify the level of hazard. These signal words mean:

⚠**WARNING** signals a hazard that could cause serious injury or death, if you do not follow recommendations. ⚠**CAUTION** signals a hazard that may cause minor to moderate injury, if you do not follow recommendations.

This guide uses ***NOTICE*** to call attention to important mechanical information, and Note: to emphasize general information worthy of special attention.

⚠ WARNING

IMPACT AND MOVING PARTS ENTANGLEMENT HAZARD

Failure to observe these instructions could lead to severe injury or death

- **Always** take time to fully read the Instructions and/or Operations Guide, and/or Basic Guide to Winching Techniques, in order to understand your winch and its operations.
- **Always** use appropriate and adequate care in lifting components into place.
- **Always** insure components will remain secure during installation and operation.
- **Always** tighten all nuts and bolts securely, per the installation and operation.
- **Always** perform regular inspections and maintenance on the winch, winch mount and related hardware.
- **Always** replace all worn or damaged parts before operating.
- **Never** operate this WARN product with damaged or missing parts.
- **Always** use extreme caution when drilling on any vehicle. Make sure that all fuel lines, brake lines, electrical wires, and other objects are not punctured or damaged when / if drilling on the vehicle. Thoroughly inspect the area to be drilled (on both sides of material) prior to drilling, and relocate any objects that may be damaged. Failure to inspect the area to be drilled may result in vehicle damage, electrical shock, fire or personal injury.
- **Always** use extreme caution when cutting and trimming during fitting.
- **Always** wear safety glasses when installing this kit. A drilling operation will cause flying metal chips. Flying chips can cause eye injury.
- **Always** remove jewelry and wear eye protection.
- **Never** exceed rack weight capacity of 150 lbs / 68 kg.
- **Always** Make sure all provided hardware is used for the installation and correctly tightened.
- **Never** carry passengers or live animals on the roof rack.
- **Always** keep hands and other limbs safely inside the vehicle while in motion.

Read installation and operating instructions thoroughly.

⚠ WARNING

TIPPING / ROLLOVER HAZARD

Failure to observe these instructions could lead to severe injury or death

Installing a roof rack and carrying a load will raise your vehicle's center of gravity. This change can negatively impact handling and stability. To reduce the risk of accidents or rollover, please note:

- **Avoid sudden or aggressive braking.**
- **Take turns at lower speeds, as the vehicle will experience more body roll.**
- **Use extreme caution on uneven surfaces or inclines where the higher center of gravity significantly increases the risk of tipping.**

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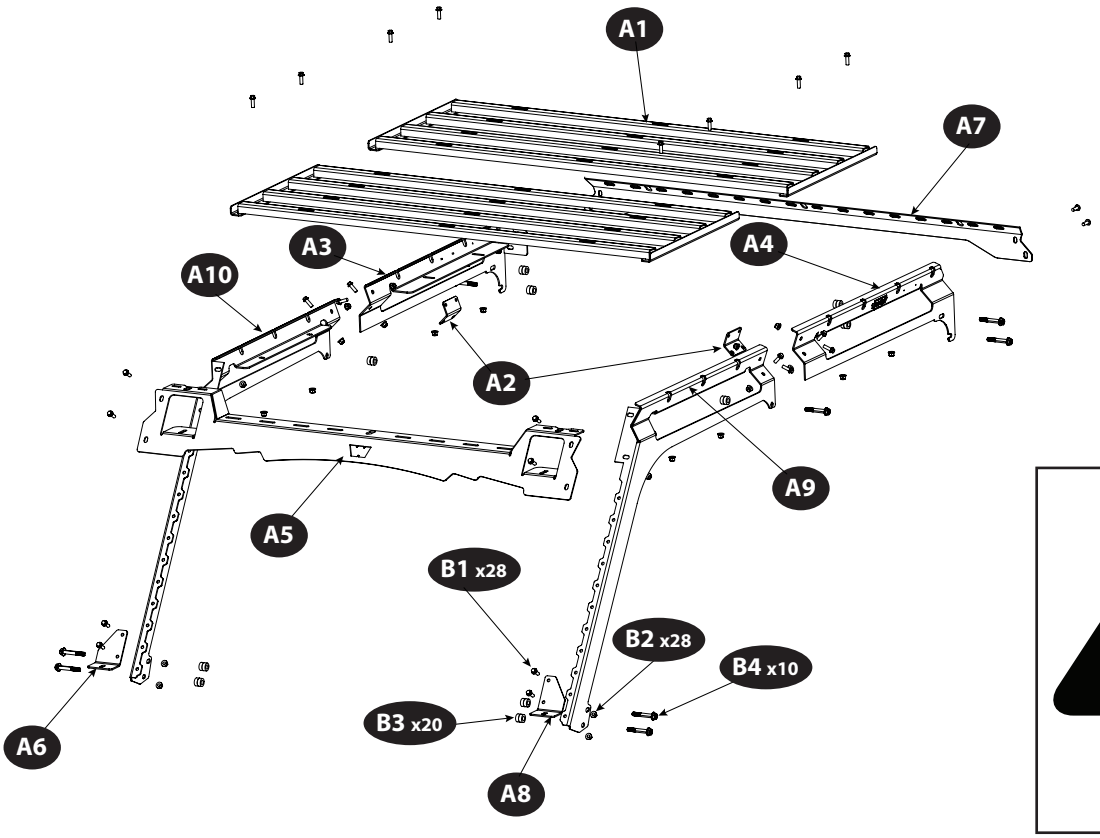
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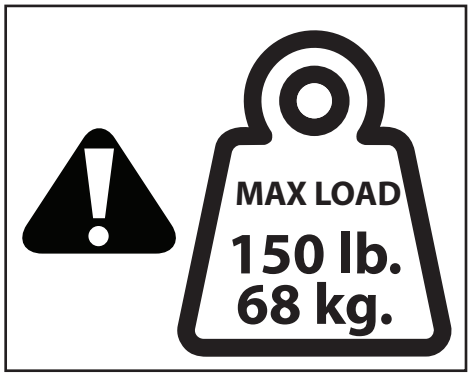
TOOLS REQUIRED

- Standard wrenches and sockets
- Metric wrenches and sockets
- Ratchet

PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
A1	112665	TRAY	2	B1	69771	M8-1.25 X 25MM HEX CPSCR	28
A2	112686	JOINT BRACKET	2	B2	112548	M8-1.25 HEX FLANGE NUT	28
A3	112685	RH TOP REAR SUPPORT	1	B3	112480	SPACER	20
A4	112684	LH TOP REAR SUPPORT	1	B4	112542	M10-1.5 X 65MM FLANGE BOLT	10
A5	112672	FRONT SUPPORT	1				
A6	112662	RH LIGHT BRACKET	1				
A7	112661	REAR BRACKET	1				
A8	112687	LH LIGHT BRACKET	1				
A9	112688	LH TOP FRONT BRACKET	1				
A10	112671	RH TOP FRONT BRACKET	1				





TORQUE SPECIFICATIONS

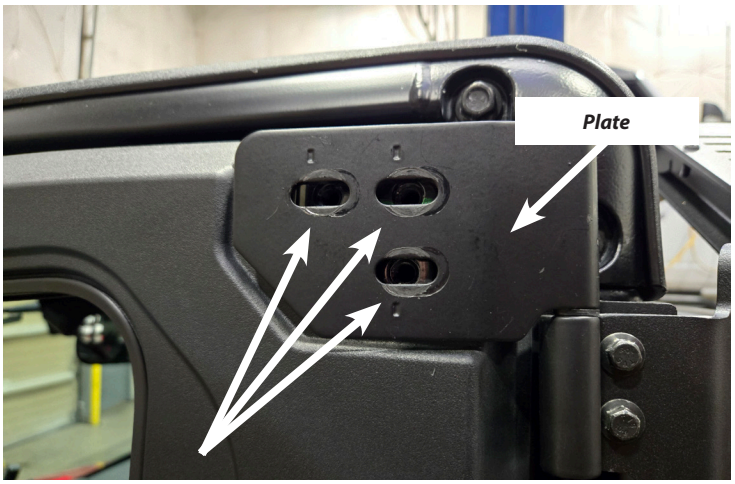
Please use the recommended torque specifications when assembling this product unless otherwise specified in the instructions.

FASTENER SIZE	FASTENER TORQUE	
	lb-ft	(N.m)
M8	(18)	25
M10	(37)	50

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NOTE: For Northstar Edition models with cab doors, keep doors closed and windows down until the install is complete.

1. Remove the three bolts securing the top door hinge plate (each door). *Save hardware.*
2. Remove the door hinge plate (each door). *Save plates.*



3. Remove the front two lower cab frame bolts. ***Save the nuts, you will be reusing.***



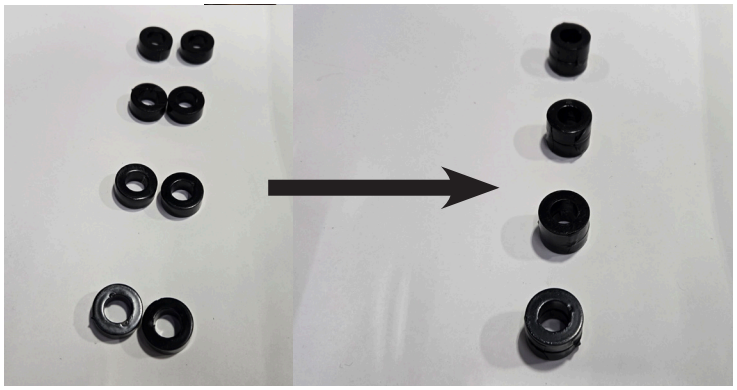
4. Remove the center cab top bolt.



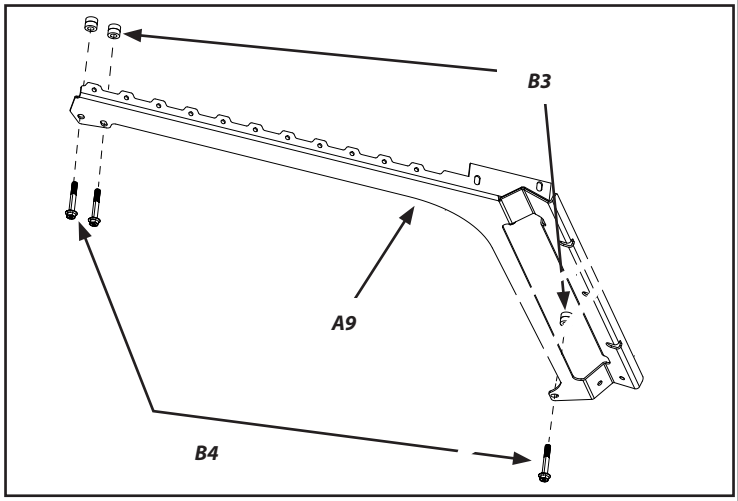
5. Remove the rear corner, top two cab frame bolts (each side). ***Save the nuts, you will be reusing.***



6. Find the spacers (B3) from your hardware kit.
7. Pair each spacer up. *Tip: Stack spacers (two by two and wrap some electrical tape to keep together.*



8. Find your front rack supports (A9 and A10).
9. Insert one bolt (B4) in each of the two mounting holes (three total) of each end.
10. Place one stack of spacers (two spacers) over the each bolt.

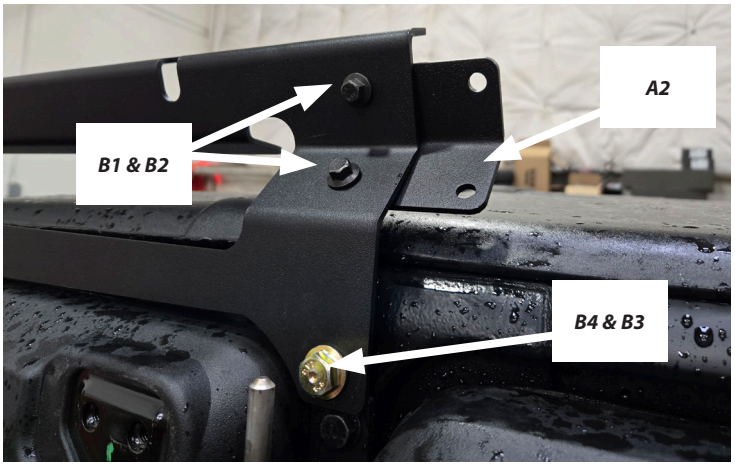


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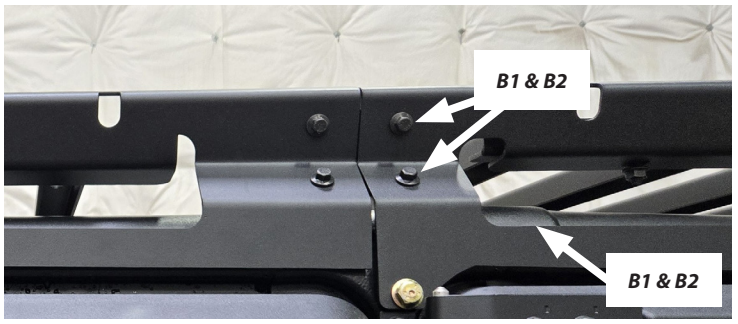
11. With help (*holding onto bolts and spacers*), position rack support on the coordinating side of the vehicle, aligning the bolts with spacers, to the lower cab and top center frame bolt holes.
12. Starting with the front lower bolts, secure with the nuts you saved from step 3. *Do not tighten completely.*
13. Repeat steps for other side.



14. Secure top portion of the support. *Do not tighten completely.*
15. Install the joint bracket (A2) to the support using two M8 bolts (B1) and nuts (B2). *Do not tighten completely.*



16. Install the top rear support (A4) of the rack using two M10 bolts (B4) with spacers (B3) (*as done with the front supports*). Repeat for other side.
17. Connect the two halves together by installing two M8 bolts (B1) through the remaining holes in the support and joint bracket and secure with two nuts (B2). *Do not tighten completely at this time.* Do this for each side.



18. Once both sides are installed, lay the top tray (A1) onto the left and right support.
19. Secure the tray to the left and right supports using four bolts (B1) and the lock nuts (B2). Refer to exploded view for detail. *Do not tighten completely*.



20. Install the rear bracket (A7) with four bolts (B1) and locking nuts (B2). *Do not tighten yet.*



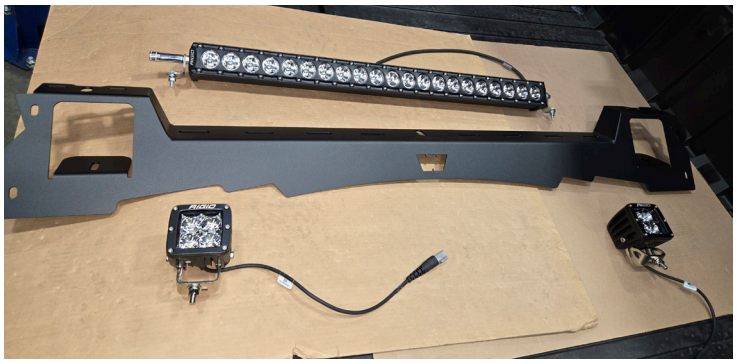
21. Adjust rear bracket, make sure it is centered and the top is flush with the top of the tray.



22. If you have any accessory lights, install them to the front support (A4) now.

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INSTALLATION INSTRUCTIONS



23. With help, position the front support (A5) in place and secure using four bolts (B1) and lock nuts (B2). *Do not tighten completely.*





24. Tighten hardware sequence:
    a. Tighten the front and rear side supports five M10 bolts (each side).
    b. Tighten the eight bolts for the roof tray.
    c. Tighten the four rear support bolts (remembering to keep centered and flush).
    d. With the front support centered and flush, tighten hardware (four bolts).

25. Confirm ALL roof rack hardware is to recommended torque on page 2.

26. Reinstall your door hinge plates (step 1 and 2).

MAINTENANCE / CARE

1. Inspect all parts on the winch, winch mount, and related hardware prior to each use. Replace all hardware that appears rusted or deformed.

2. Inspect all nuts and bolts on the winch, winch mount,, and related hardware prior to each use. Tighten all nuts that appear to be loose. Stripped, fractured, or bent bolts or nuts need to be replaced.

3. Check all cables prior to use. Replace cables that look worn or frayed.

4. Check all moving or rotating parts. Remove debris that may inhibit the part from moving freely.

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