



EMS-XR



OWNERS MANUAL

WITH POLARIS MOUNTING SUPPLEMENT



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TRANSPORTING YOUR QTAC

IMPORTANT

Gross Vehicle Weight Rating

Ensure that the gross vehicle weight rating (GVWR) of the QTAC carrying vehicle is sufficient to support your QTAC unit with any equipment, fluids and personnel that you may wish to carry.

SEE POLARIS MOUNTING SUPPLEMENT: PAGE 11



NOTICE

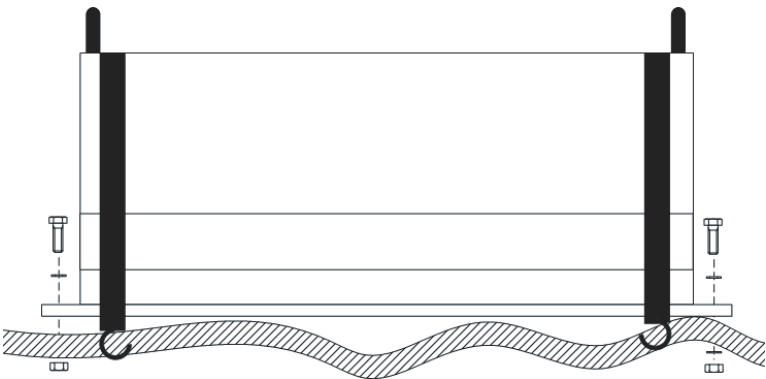
Figure 1 – Mounting Options

General QTAC Mounting and Fastening

SEE POLARIS MOUNTING SUPPLEMENT: PAGE 13

⚠ WARNING

IMPROPER MOUNTING SURFACE!



SPECIAL PRECAUTIONS FOR CARRYING A QTAC ON RIDE-ON ATVS OR SIDE-BY-SIDE UTVS

- Ensure that the area to which you are securing your QTAC is an approved loading area for your ATV or UTV.
- Ensure that the weight of your QTAC does not exceed the maximum recommended weight of the ATV or UTV loading area to which you are securing your QTAC.
- Loading the bed of your ATV or UTV may affect steering response. Therefore, the operator should spend some time operating the vehicle in a safe area (e.g. wide and flat) once the QTAC has been properly secured and loaded to ensure the vehicle operates in a safe manner. If the vehicle does not operate in a safe manner, immediately recheck the GVWR calculations to ensure that the QTAC unit is not overloading your vehicle. If the unsafe operation cannot be corrected, do not carry your QTAC in this fashion.
- When carrying your QTAC unit on the rear rack of an ATV or in the bed of a UTV, avoid steep side slopes. If an uphill must be traversed, it is recommend that you back your ATV or UTV up the uphill to avoid the front wheels lifting on the uphill.

STANDARD VITEMS

Using the Oxygen Bottle Rack (Size 'D' Bottles)

- If your QTAC is equipped with the integrated oxygen bottle rack, the bottles are loaded directly into the fixed holder located underneath the skid assembly.
 - a. To install the oxygen bottles (not provided), orient them so the regulators face outward toward the edge of the skid.
 - b. Slide the butt ends of the bottles completely into the main stay holder.
 - c. Pivot the opposite side (the neck end) of the bottles up into the retention bracket. Secure the bottles firmly in place by inserting the two provided screws and tightening them down until the bottles are completely immobilized. (See Figure 2)

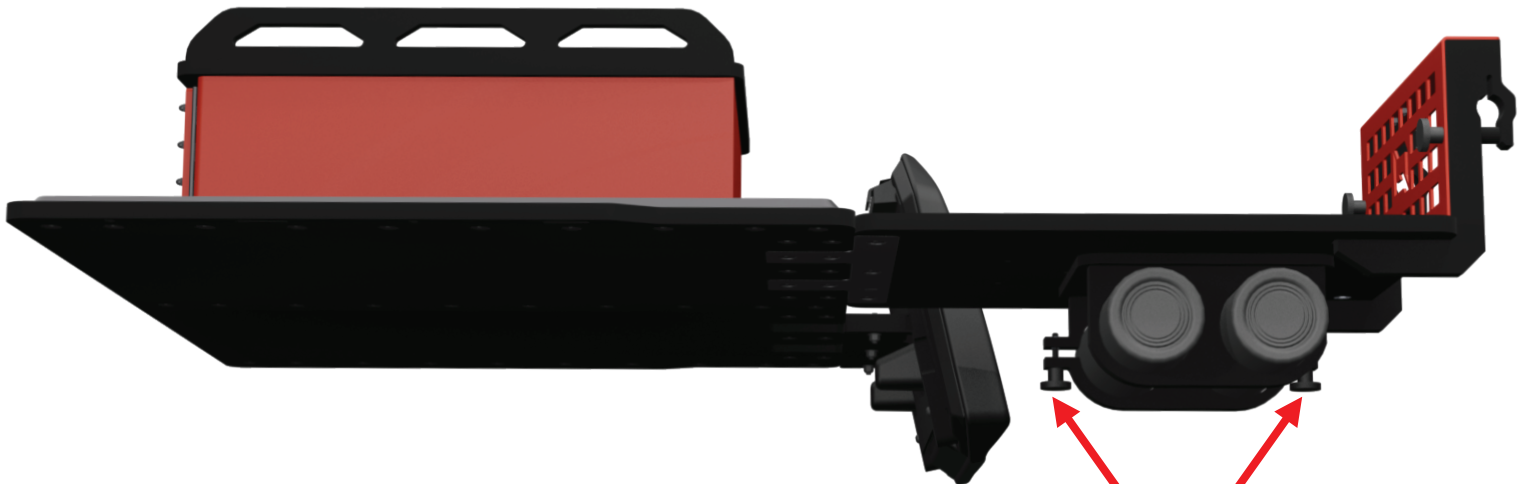


FIGURE 2

LOWER BOTTLE
RETENTION STRAP

NOTICE

When using only one bottle, it must be placed in the lower-most holder.

SLIDING POLYTOUGH™ DRAWER

The EMS-R Sliding Tray is mounted beneath the rescue platform and provides slide-out access to stored equipment. Pull the tray straight outward using the front handle until it reaches the full extension position (see Figures 8-10). Push the tray fully inward until seated beneath the rescue platform before vehicle operation.

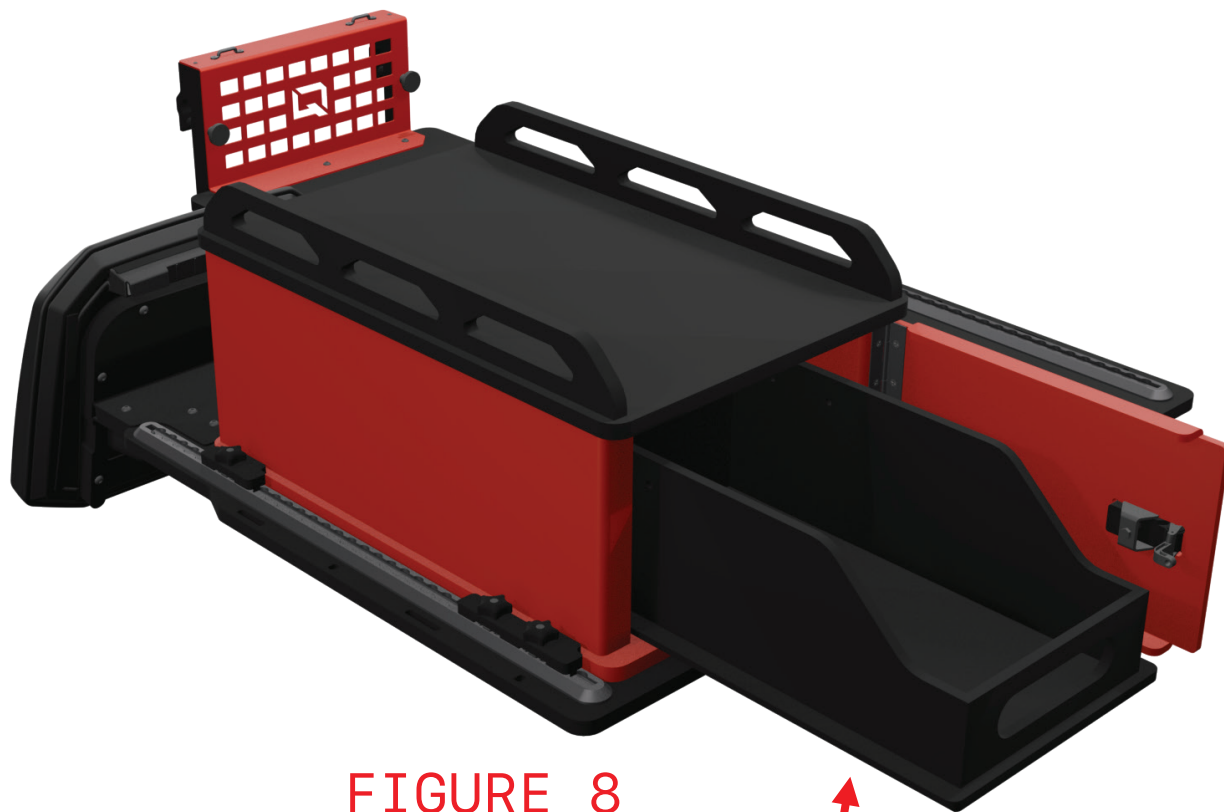


FIGURE 8

SLIDING
STORAGE
TRAY

SERVICING YOUR QTAC

Cleaning Your QTAC

Your QTAC water tank is best cleaned with plain water. If additional cleaning power is needed, a small amount of dish or car washing soap may be used. Avoid heavy washing of the pump engine and surrounding area. Avoid the use of high pressure spray on the water tank as the decals and rubber components may be damaged.

Protecting Your QTAC

Your QTAC is built of welded UV-stabilized copolymer polypropylene red plastic. However, like any colored material, extended exposure to direct sunlight can eventually fade the finish of the tank, hoses, hose reel and even the Honda engine. To keep this from happening, cover the QTAC if it is stored outside and in direct sunlight. Also, consider using a UV inhibitor on the plastic and rubber parts after washing the system, such as 303 Aerospace UV Protectant.

TECHNICAL SPECIFICATIONS

EMS-XR	
DRY WEIGHT (NO OPTIONS)	160 lbs (72.5 kg)
CONSTRUCTION	Fully-welded, top-grade Copolymer Polypropylene Polytough™ Construction



WARRANTY

GENERAL PROVISIONS

The warranty described below is provided by MTECH, Inc. (hereinafter "MTECH") to the original purchaser (hereinafter "Purchaser") of new QTAC fire suppression or rescue products (hereinafter "Product") purchased from MTECH. Under this warranty, MTECH will repair or replace, at its option, any covered part which is found to be defective in material or workmanship during the applicable warranty term. Purchaser shall provide MTECH with prompt written notice of the defect and allow reasonable time for replacement or repair. Warranty services must be performed by MTECH or an MTECH designee, which will use only new or remanufactured parts or components furnished by MTECH. Purchaser will be responsible for any service call and/or transportation of Product to and from MTECH, or MTECH's designee, for any premium charged for overtime labor requested by Purchaser, and for any service and/or maintenance not directly related to any defect covered under the warranties below.

WHAT IS WARRANTED

All parts of any Product are warranted for a period of 36 months to the original Purchaser, with the warranty term beginning on the date Product is delivered to Purchaser. Note that some components may carry a manufacturer's warranty. See the appropriate component documentation for details. Warranty statements required by law covering engine emission-related parts and components are found in the documentation delivered with the Product.

WHAT IS NOT WARRANTED

MTECH IS NOT RESPONSIBLE FOR THE FOLLOWING:

- (1) Second-hand Products
- (2) Any Product that has been altered or modified in ways not approved by MTECH
- (3) Any Product that is used in conjunction with non-QTAC approved devices or equipment to perform tasks
- (4) Any Product that is mounted or secured in ways not approved by MTECH
- (5) The vehicle or device used to transport or house the Product
- (6) Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow operating instructions, misuse, lack of proper protection during storage, or accident
- (7) Normal maintenance parts, lubricants, and service
- (8) Exposure of Product to non-approved contents and environments, including but not limited to fuel, chemical agents, industrial effluents, and extreme temperatures

SECURING WARRANTY SERVICE

To secure warranty service, Purchaser must:

- (1) Report Product defect to MTECH and request repair within the applicable warranty term
- (2) Present evidence of the warranty start date
- (3) Make Product available to MTECH within a reasonable period of time as agreed upon with MTECH

LIMITATION OF IMPLIED WARRANTIES AND OTHER REMEDIES

To the extent permitted by law, neither MTECH nor any company affiliated with it makes any warranties, representations, or promises as to the quality, performance, or freedom from defect of Product covered by this warranty. IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TO THE EXTENT APPLICABLE, SHALL BE LIMITED IN DURATION TO THE APPLICABLE PERIOD OF WARRANTY SET FORTH IN THIS SECTION.

PURCHASER'S ONLY REMEDIES IN CONNECTION WITH THE BREACH OR PERFORMANCE OF ANY WARRANTY ON THE PRODUCT ARE THOSE SET FORTH ON THIS PAGE. IN NO EVENT WILL MTECH OR ANY COMPANY AFFILIATED WITH MTECH BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

(Note: Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.)

P/N 2891471, 2891472

IMPORTANT

Due to the technical nature of this kit, Polaris® insists that this installation be performed by a certified Polaris® technician.

MISSING OR DAMAGED PARTS

Before beginning assembly, inspect the kit and its component(s) to be sure all parts and tools are accounted for and not damaged. If missing parts or parts are damaged, please contact your Selling Dealer for assistance.

If your accessory was purchased online, please contact POLARIS customer service at **1-800-POLARIS** (US & Canada only).

APPLICATION

The two skid mounting kits described in these instructions can be used for installing any of three different fire skids on any of three different Polaris Ranger platforms.

Fire Skids:

- Fire Only — QTAC 85HP, Polaris P/N 2891417
- Fire / Rescue combination — QTAC EMS-C, Polaris P/N 2891418
- Rescue Only — QTAC EMS-R, Polaris P/N 2891419

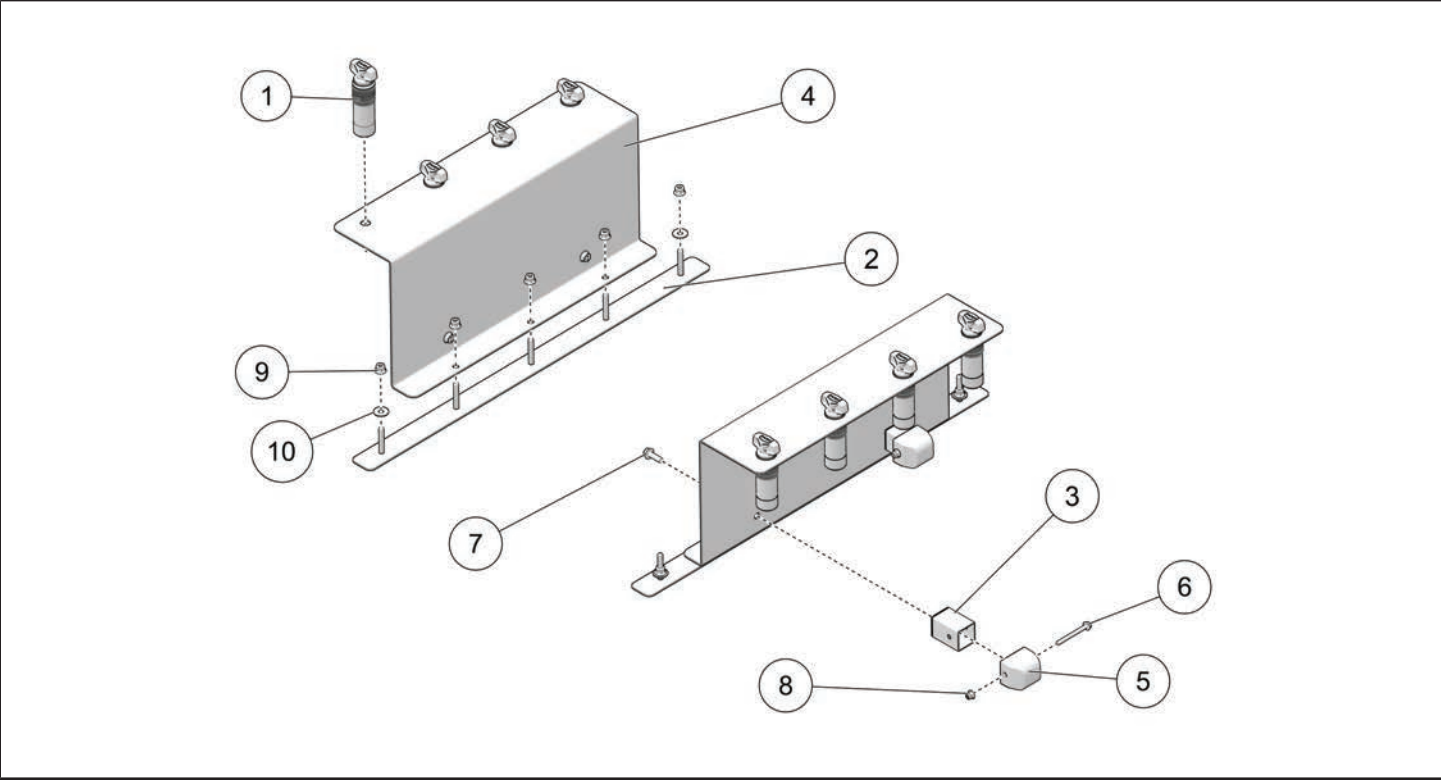
Polaris Platforms

- Ranger XP 1000
- Ranger XP Kinetic
- Ranger XD 1500

Verify accessory fitment at www.polaris.com.

KIT CONTENTS

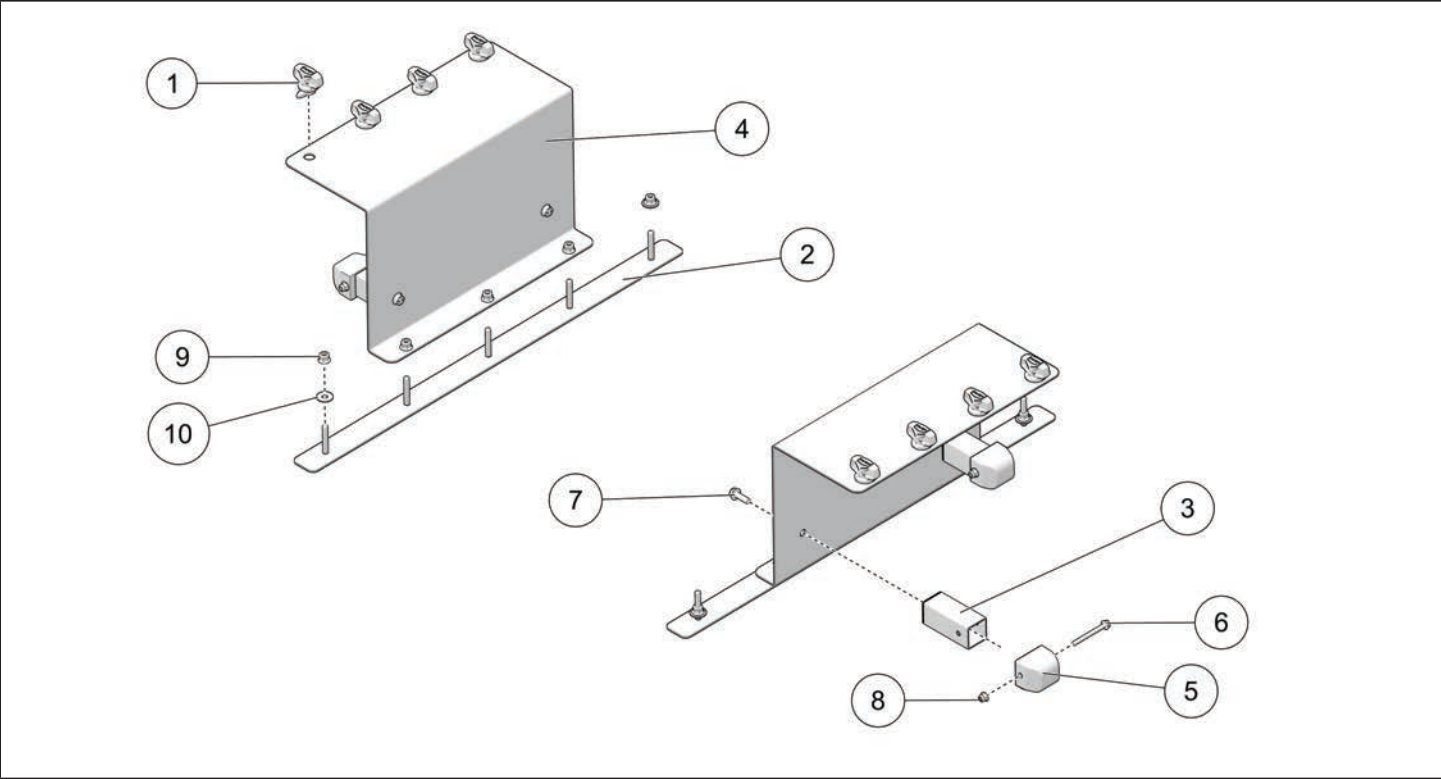
FIRE SKID MOUNT P/N 2891471



NOTICE	
XXX = color code (For example: 458 = Black)	

REF	QTY	PART DESCRIPTION	P/N AVAILABLE SEPARATELY
1	8	KXP PLUNGER	53504
2	2	WELD-MOUNT PLATE, FIRE SKID	1029560-329
3	4	WELD-LEG, FIRE SKID	1029559-458
4	2	BRKT-MOUNT, FIRE SKID	5276131-458
5	4	BUMPER-LEG, FIRE SKID	5419195
6	4	SCR-HXFL-M6X1.0X65 10.9 ZFB	7521331-65
7	4	SCR-HXFL-M8X1.25X25 10.9 ZFB	7521332-25
8	4	NUT-HXFL-M6X1.0 8 ZTB NYL	7548027
9	10	NUT-HXFL-M8X1.25 8 ZTB NYL	7548028
10	4	WSHR-8.4X24.-X2.0 ZPB	7556045
11	1	INSTR-MOUNTING,FIRE SKID	9942006

FIRE SKID XD MOUNT P/N 2891472



NOTICE			
XXX = color code (For example: 458 = Black)			

REF	QTY	PART DESCRIPTION	P/N AVAILABLE SEPARATELY
1	2	KXP LOCK & RIDE MAX ANCHOR (QTY 4)	53505
2	2	WELD-MOUNT PLATE, FIRE SKID	1029560-329
3	4	WELD-LEG, FIRE SKID, XD	1029561-458
4	2	BRKT-MOUNT, FIRE SKID, 1500	5276132-458
5	4	BUMPER-LEG, FIRE SKID	5419195
6	4	SCR-HXFL-M6X1.0X65 10.9 ZFB	7521331-65
7	4	SCR-HXFL-M8X1.25X25 10.9 ZFB	7521332-25
8	4	NUT-HXFL-M6X1.0 8 ZTB NYL	7548027
9	10	NUT-HXFL-M8X1.25 8 ZTB NYL	7548028
10	4	WSHR-8.4X24.-X2.0 ZPB	7556045

TOOLS REQUIRED

- Safety Glasses
 - Socket Set, Metric
 - 13mm Deep Well Socket
- 12" Extension
 - Torque Wrench

CONSUMABLES REQUIRED

- Soapy Water

IMPORTANT

Your Fire Skid Mounting Kit is exclusively designed for your vehicle. Please read the installation instructions thoroughly before beginning. Installation is easier if the vehicle is clean and free of debris. For your safety, and to ensure a satisfactory installation, perform all installation steps correctly in the sequence shown.

INSTALLATION INSTRUCTIONS

VEHICLE PREPARATION

GENERAL

RANGER XP 1000, XD 1500

1. Park vehicle on a flat surface.
2. Shift vehicle into PARK.
3. Turn key to OFF position and remove key.

RANGER KINETIC

⚠ WARNING

Electric vehicles present different safety risks than vehicles powered by internal combustion engines. For that reason, different standard safety practices that protect technicians and other dealership personnel are required when servicing electric vehicles.

- Wear the correct Personal Protective Equipment (PPE)
- Follow precautions
- Use insulated tools when necessary
- Properly disable the vehicle's high-voltage electrical system prior to repair
- Create a safe work area so others know not to approach or interact with the vehicle

Following this guidance is critical to ensure the safety of yourself and others during vehicle service. Failure to follow safety precautions may result in severe injury or death.

1. Park vehicle on a flat surface.
2. Shift vehicle into PARK.
3. Turn key to OFF position and remove key.
4. If vehicle is connected to a charger, disconnect charger from the charge port.

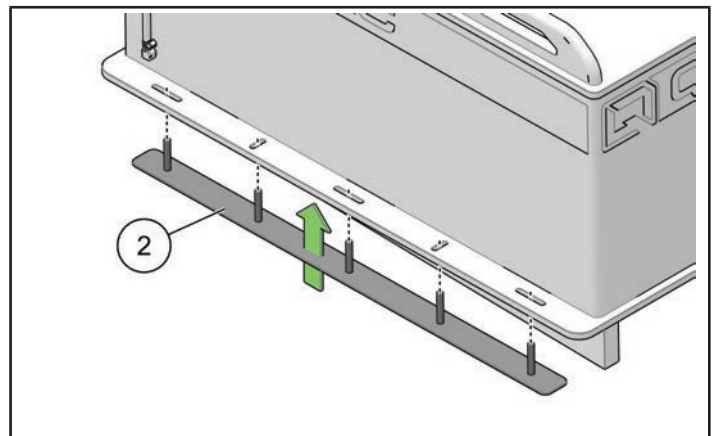
ACCESSORY INSTALLATION

INSTALL WELD STUD PLATES ON SKID

NOTICE

The same weld stud plates ② are used for both kits (2891471 and 2891472).

1. Install the weld stud plates ② on both LH and RH sides of the skid. Install as far forward on the skid as possible. Tap the plate into place using a rubber mallet if needed.

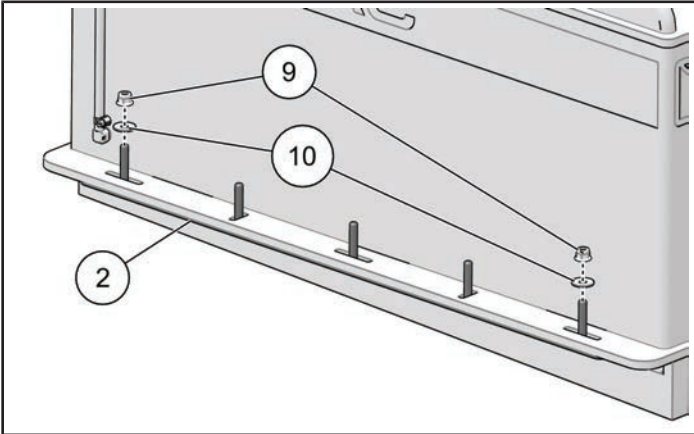


Shop Setup

General practices when working around a high-voltage (HV) circuit:

- Create a buffer zone that extends approximately 6 feet beyond the HV system
- Mark zone with high-voltage A-frame sign
- Remove all unnecessary personnel from zone
- Use appropriate insulated tools
- When inside buffer zone, remove jewelry
- Do not use sprays around the HV system, which could make the air conductive
- Do not cut, weld, or screw into HV battery case, or penetrate the battery in any way

- Secure the first and fifth weld studs with nuts ⑨ and washers ⑩. Torque to specification.



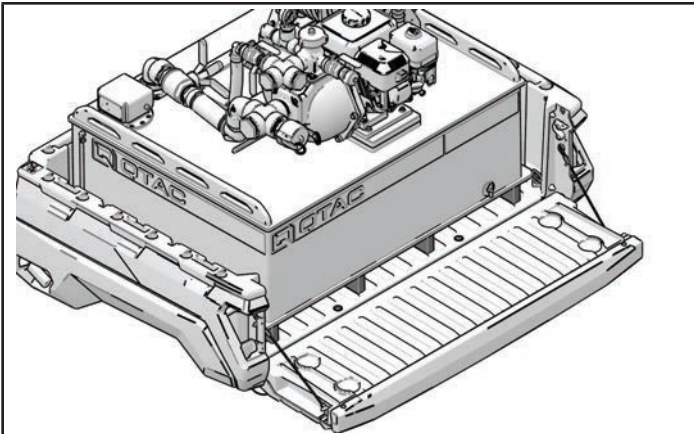
TORQUE

13 ft-lbs (18 N·m)

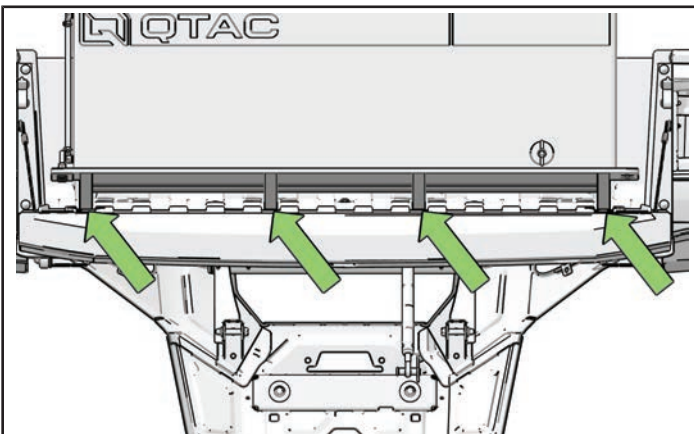
KIT 2891471, RANGER XP 1000 & KINETIC

PLACE SKID IN VEHICLE

- Place the skid in the vehicle.

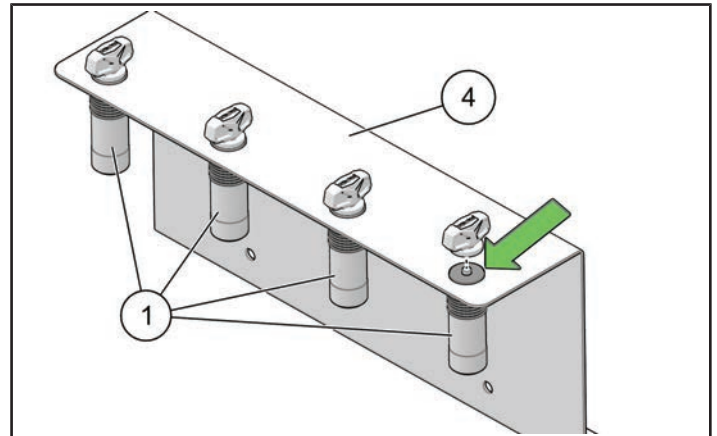


- Center the skid left-to-right in the vehicle bed. The skid riser (pre-installed) will rest in the valleys of the grooves in the bed.

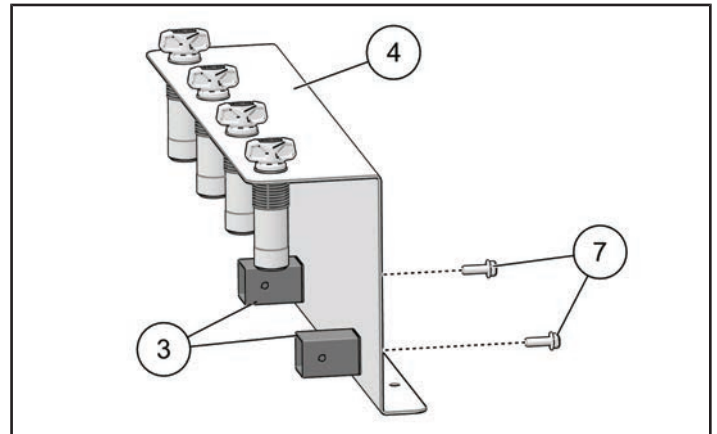


PRE-ASSEMBLE MOUNT BRACKETS

- Loosely install four (4) Lock & Ride mounts ① on each mount bracket ④. Make sure the washer is on the top side of the bracket beneath the head of each Lock & Ride wing nut.



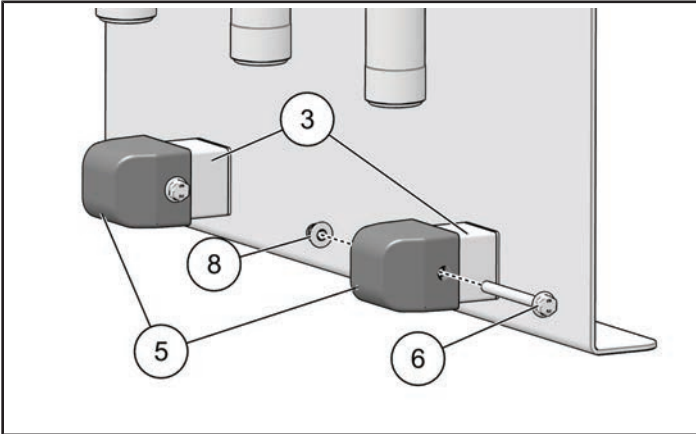
- Secure two (2) legs ③ to the side of each bracket ④ with a screw ⑦. Torque to specification.



TORQUE

9 ft-lbs (12 N·m)

3. Install a rubber bumper ⑤ on each leg and secure with a screw ⑥ and nut ⑧. Torque to specification.

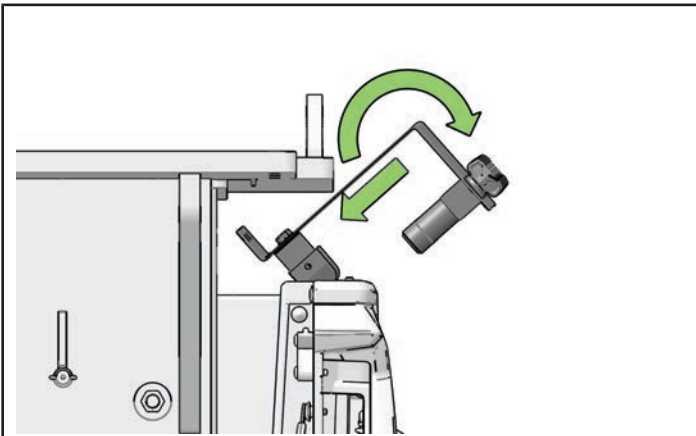


TORQUE

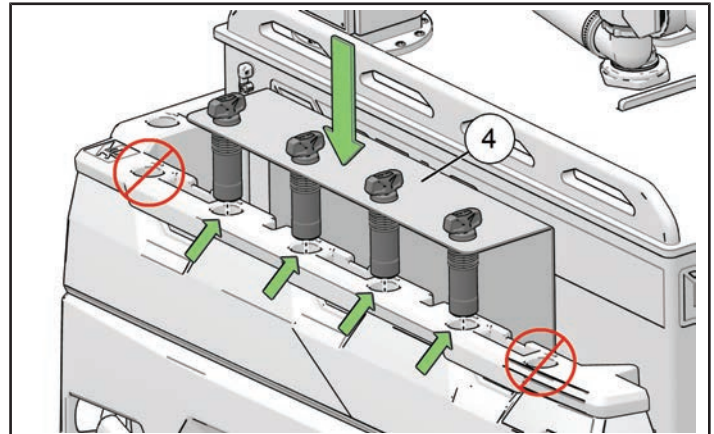
35 in-lbs (4 N·m)

INSTALL MOUNT BRACKETS ON SKID

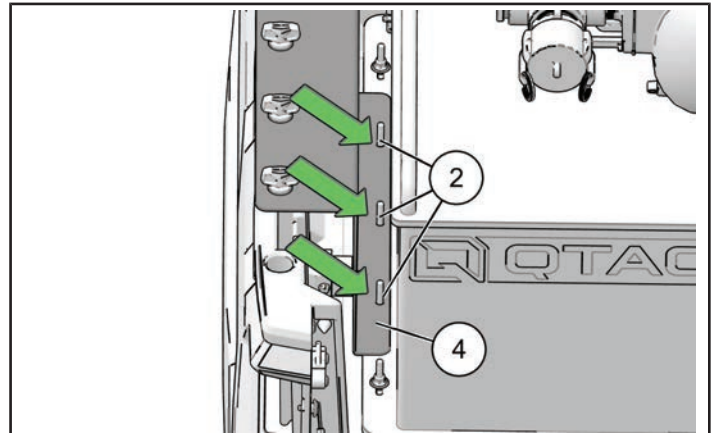
When installing the Fire / Rescue skid, EMS-C – P/N 2891418, Polaris recommends installing the RH side (passenger side) bracket first, as it is difficult to make adjustments later on with the lip of the rescue platform extending over the working area. The bracket must be rotated into place during installation, as shown.



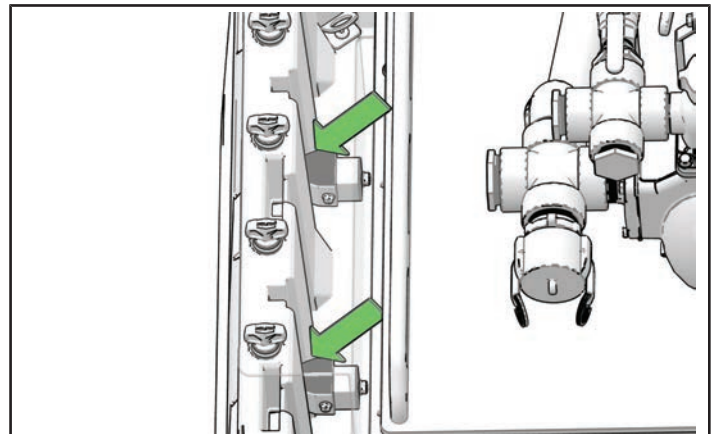
1. Lower the bracket assembly ④ onto the box side, inserting the Lock & Rides into the center four (4) holes of the box side. Soapy water can be used as lubrication to aid in insertion of the Lock & Rides.



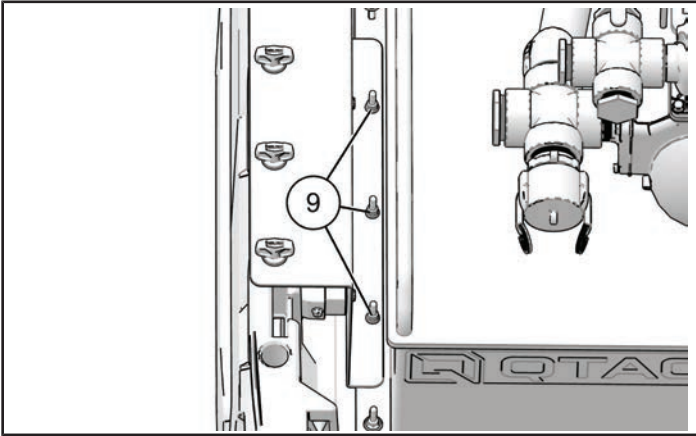
At the same time, make sure the bracket assembly ④ lowers down into place over the weld studs ② on the skid.



2. Make sure the bumpers ⑤ are captured between the channels of the bed.



3. Install three (3) nuts ⑨ on each side of the skid. Torque to specification.



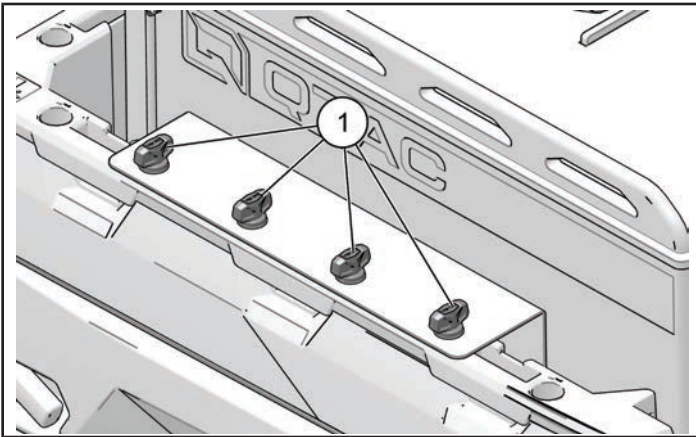
TORQUE

13 ft-lbs (18 N·m)

4. After the three (3) nuts are torqued, tighten all 4 Lock & Rides ① by hand on each side of the skid.

IMPORTANT

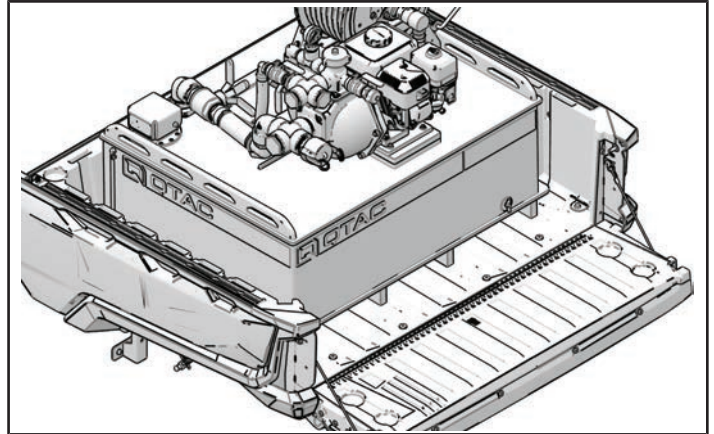
Three or four turns past tight is sufficient. The wing nuts will continue to spin and may break if turned too far past snug.



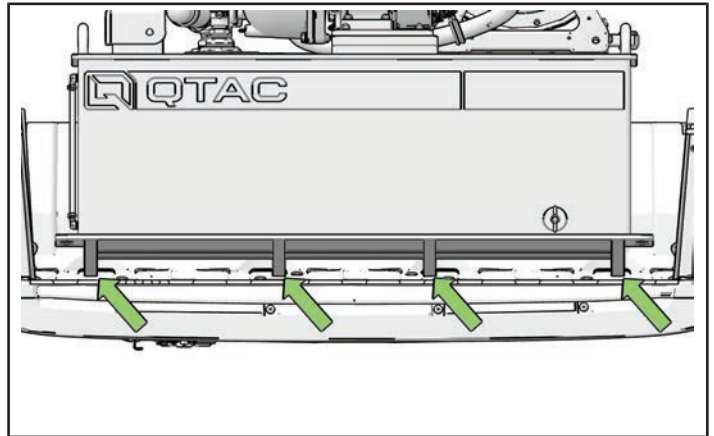
KIT 2891472, RANGER XD 1500

PLACE SKID IN VEHICLE

1. Place the skid in the vehicle.

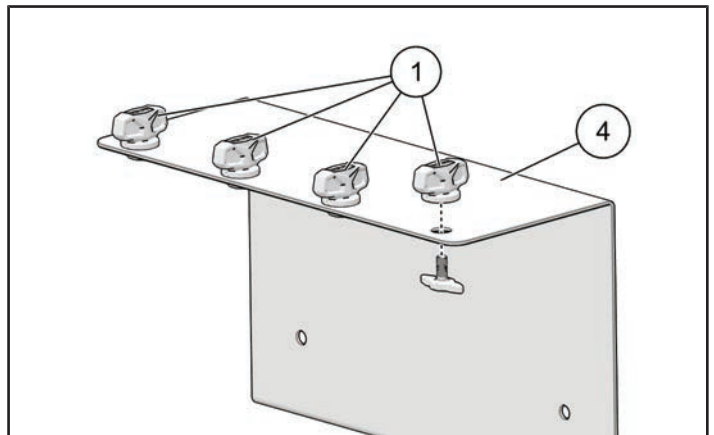


2. Center the skid left-to-right in the vehicle bed. The skid riser (pre-installed) will rest on the peaks of the grooves in the bed.

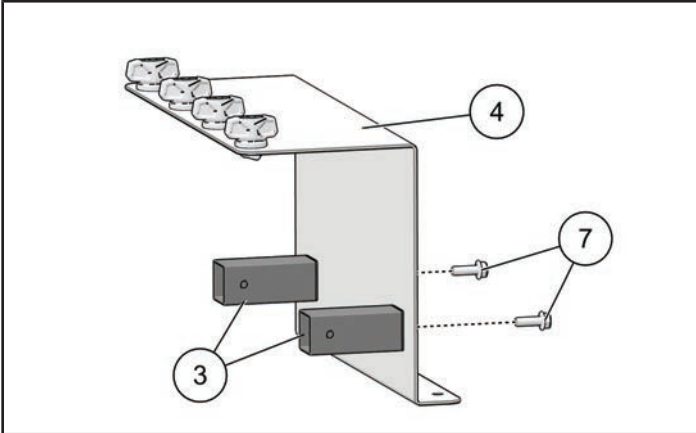


PRE-ASSEMBLE MOUNT BRACKETS

1. Loosely install four (4) Lock & Ride mounts ① on each mount bracket ④. Make sure the washer is on the top side of the bracket beneath the head of the Lock & Ride wing nut.



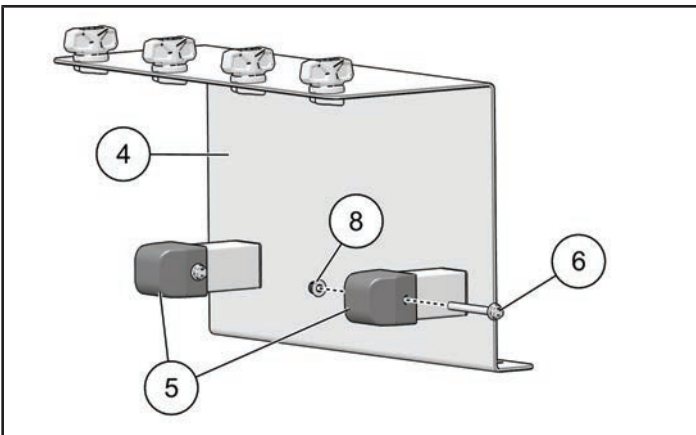
2. Secure two (2) legs ③ to the side of each bracket ④ with a screw ⑦. Torque to specification.



TORQUE

9 ft-lbs (12 N·m)

3. Install a rubber bumper ⑤ on each leg and secure with a screw ⑥ and nut ⑧. Torque to specification.

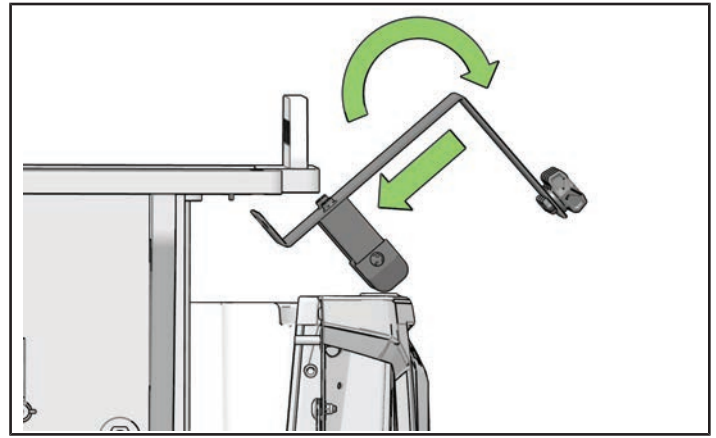


TORQUE

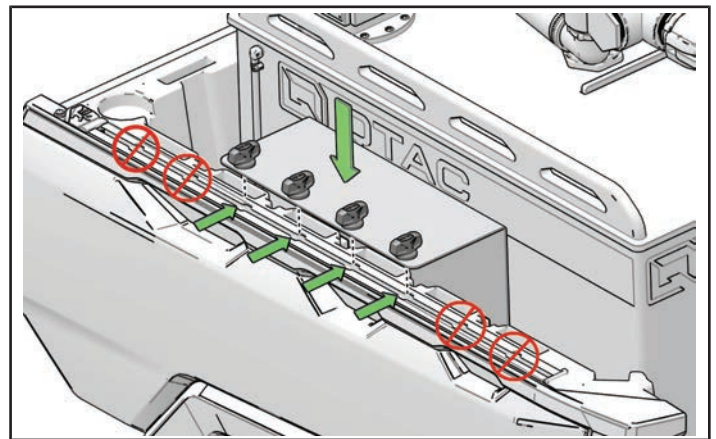
35 in-lbs (4 N·m)

INSTALL MOUNT BRACKETS ON SKID

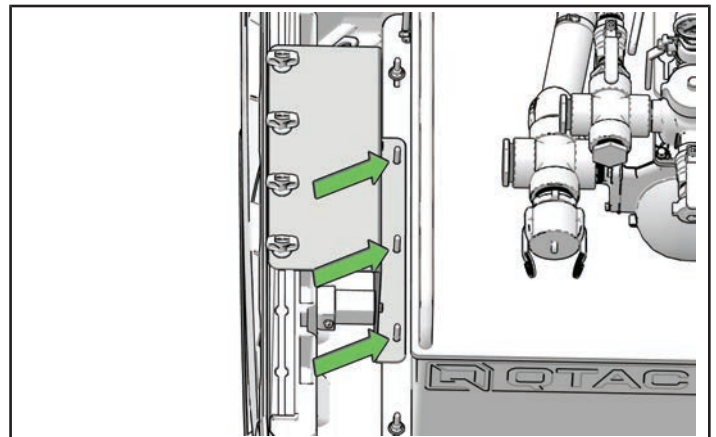
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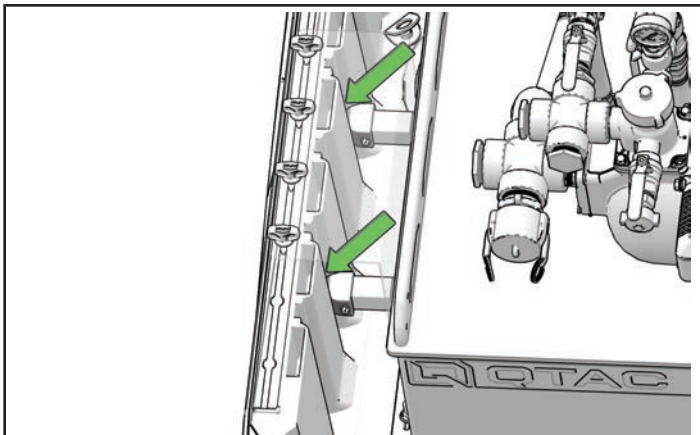
1. Insert Lock & Rides ① into the center 4 mounts of the vehicle box. (Soapy water is not needed for installation of these Lock & Ride accessories.)



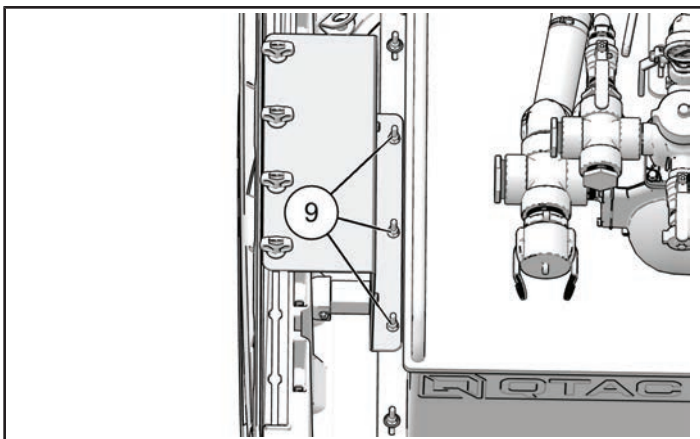
At the same time, make sure the bracket assembly ④ lowers down into place over the weld studs ② on the skid.



2. Make sure the bumpers ⑤ are captured between the channels of the bed.



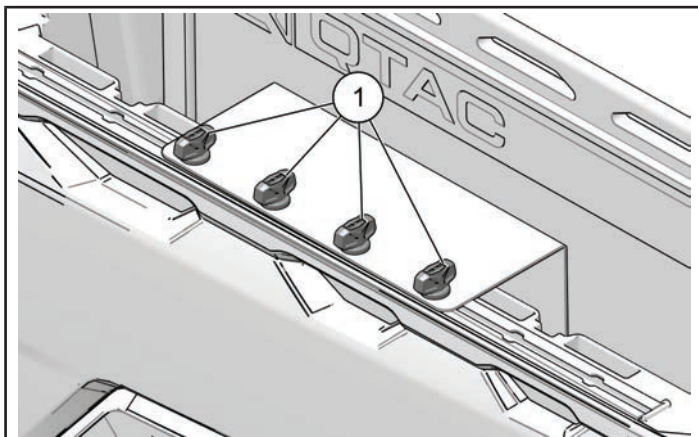
3. Torque three (3) nuts ⑨ on each side of the skid to specification.



TORQUE

13 ft-lbs (18 N·m)

4. After the three (3) nuts are torqued, tighten all 4 Lock & Rides ① by hand on each side of the skid.



IMPORTANT

Three or four turns past tight is sufficient. The wing nuts will continue to spin and may break if turned too far past snug.

INSTRUCTION FEEDBACK FORM

A feedback form has been created for the installer to provide any comments, questions or concerns about the installation instructions. The form is viewable on mobile devices by scanning the QR Code® or by clicking [HERE](#) if viewing on a PC.

