SSV KIT - Desert Front Bumper

Product:	**Side-by-side**
Project no:	**487803921**
Instruction Sheet P/N:	**487803921**
Revision no:	
Revision date:	
Item covered:	**Desert Front Bumper**

The following symbols may be used in this document:

WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠CAUTION: Indicates a hazard situation which, if not avoided, could result in minor or moderate injury.

NOTICE **Indicates an instruction which, if not followed, could severely damage vehicle components or other property.**

WARNING

- This kit is designed for specific applicable models only (authorized BRP dealers will confirm model(s)). It is not recommended for units other than the one (those) for which it was sold.
- Should removal of a locking device (e.g. lock tabs, self-locking fasteners, etc.) be required when undergoing disassembly/assembly, always replace with a new one.
- Torque wrench tightening specifications must strictly be adhered to.
- Unless otherwise specified, engine must be OFF when performing any operation on the vehicle.
- Always be aware of parts that can move, such as wheels, transmission components, etc.
- Always wear EYE PROTECTION AND APPROPRIATE GLOVES when using power tools.

WARNING

Some important safety information and/or operating instructions dedicated to the end user might be included in this instruction sheet. Make sure to give the kit part number as well as the instruction sheet included with this kit to the customer. Verify that the customer has access to all the information required for proper use of the accessory.

NOTE: USE TIGHTENING TORQUES IN THE FOLLOWING TABLE IF NOT OTHERWISE SPECIFIED.

	GRADE			
	5.8	8.8	10.9	12.9

M4	1.8 ± 0.2 N•m (16 ± 2 lbf•**in**)	2.8 ± 0.2 N•m (25 ± 2 lbf•**in**)	3.8 ± 0.2 N•m (34 ± 2 lbf•**in**)	4.5 ± 0.5 N•m (40 ± 4 lbf•**in**)
M5	3.3 ± 0.2 N•m (29 ± 2 lbf•**in**)	5 ± 0.5 N•m (44 ± 4 lbf•**in**)	7.8 ± 0.7 N•m (69 ± 6 lbf•**in**)	9 ± 1 N•m (80 ± 9 lbf•**in**)
M6	7.5 ± 1 N•m (66 ± 9 lbf•**in**)	10 ± 2 N•m (89 ± 18 lbf•**in**)	12.8 ± 2.2 N•m (113 ± 19 lbf•**in**)	16 ± 2 N•m (142 ± 18 lbf•**in**)
M8	15.3 ± 1.7 N•m (135 ± 15 lbf•**in**)	24.5 ± 3.5 N•m (18 ± 3 lbf•ft)	31.5 ± 3.5 N•m (23 ± 3 lbf•ft)	40 ± 5 N•m (30 ± 4 lbf•ft)
M10	29 ± 3 N•m (21 ± 2 lbf•ft)	48 ± 6 N•m (35 ± 4 lbf•ft)	61 ± 9 N•m (45 ± 7 lbf•ft)	73 ± 7 N•m (54 ± 5 lbf•ft)
M12	52 ± 6 N•m (38 ± 4 lbf•ft)	85 ± 10 N•m (63 ± 7 lbf•ft)	105 ± 15 N•m (77 ± 11 lbf•ft)	128 ± 17 N•m (94 ± 13 lbf•ft)
M14	85 ± 10 N•m (63 ± 7 lbf•ft)	135 ± 15 N•m (100 ± 11 lbf•ft)	170 ± 20 N•m (125 ± 15 lbf•ft)	200 ± 25 N•m (148 ± 18 lbf•ft)
M16	126 ± 14 N•m (93 ± 10 lbf•ft)	205 ± 25 N•m (151 ± 18 lbf•ft)	255 ± 30 N•m (188 ± 22 lbf•ft)	305 ± 35 N•m (225 ± 26 lbf•ft)
M18	170 ± 20 N•m (125 ± 15 lbf•ft)	273 ± 32 N•m (201 ± 24 lbf•ft)	330 ± 25 N•m (243 ± 18 lbf•ft)	413 ± 47 N•m (305 ± 35 lbf•ft)

NOTE: The illustrations in this document show typical construction of the different assemblies and may not reproduce the full detail or exact shape of the parts; however, they represent parts that have the same or similar function.

Installation time is approximately **0.5** hours.

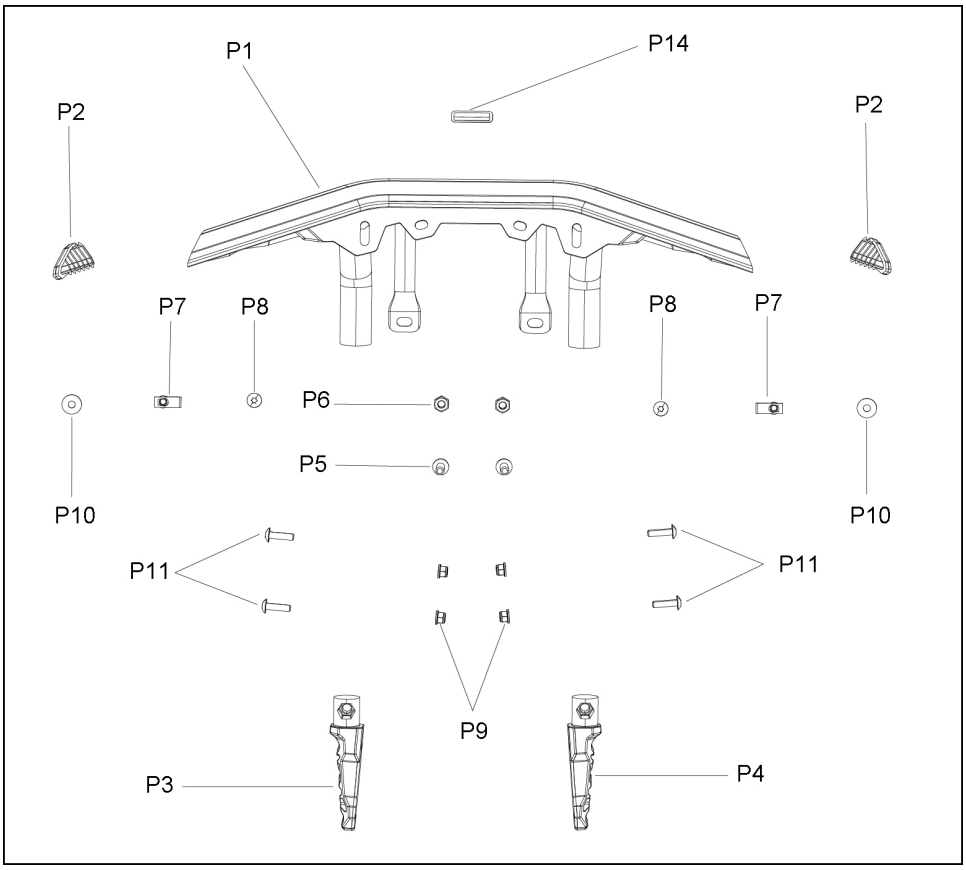
ICON LEGEND

ICON	INDICATES
	Parts to be discarded
	Parts kept for reinstallation

REQUIRED TOOLS

REQUIRED TOOL			USE
T1	Drill bit 5 mm (3/16 in)		Drilling 3/16 X .550 rivets

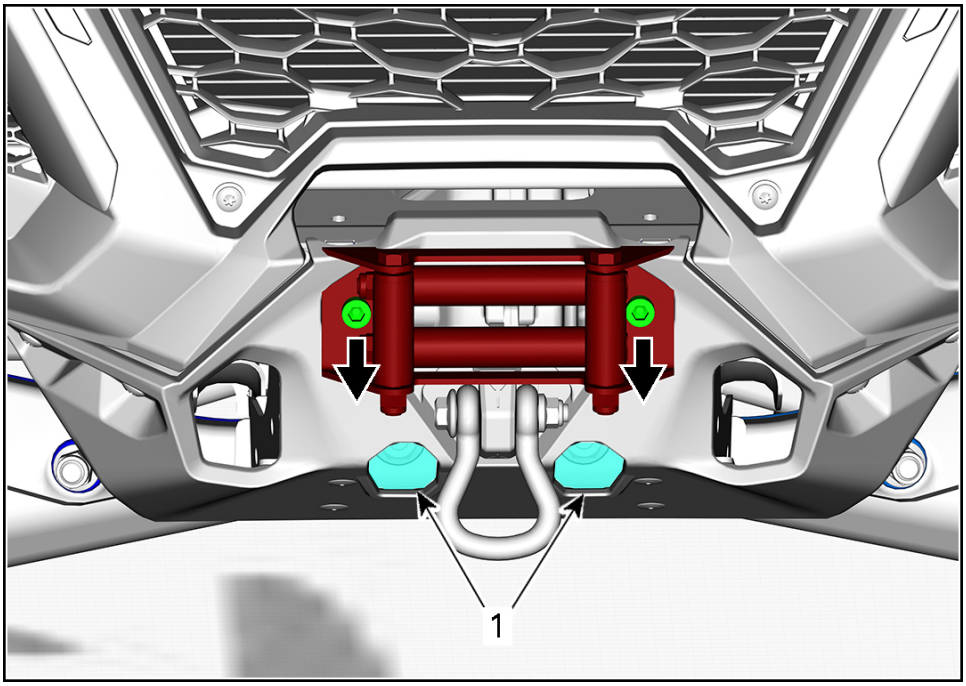
PARTS TO BE INSTALLED



ITEM	DESCRIPTION	PART NUMBER	QTY
P1	Front bumper	Not available separately	1
P2	Bumper cap	705017183	2
P3	Left casting	Not available separately	1
P4	Right casting	Not available separately	1
P5	M10 X 30 Torx screw	250000848	2
P6	M10 Elastic self-locking nut	233601466	2
P7	M8 X 1.25 Panel nut	250100118	2
P8	M8 X 20 Torx screw	250000953	2
P9	M8 Elastic flanged nut	233281466	4
P10	M8 Stainless flat washer	234082670	2
P11	M8 X 30 Torx screw	250000745	4
P12	3/16 X .550 Black pop rivet	293150104 (Part not shown)	4
P13	Bumper label	704907763 (Part not shown)	1
P14	Bumper label	704907408	1

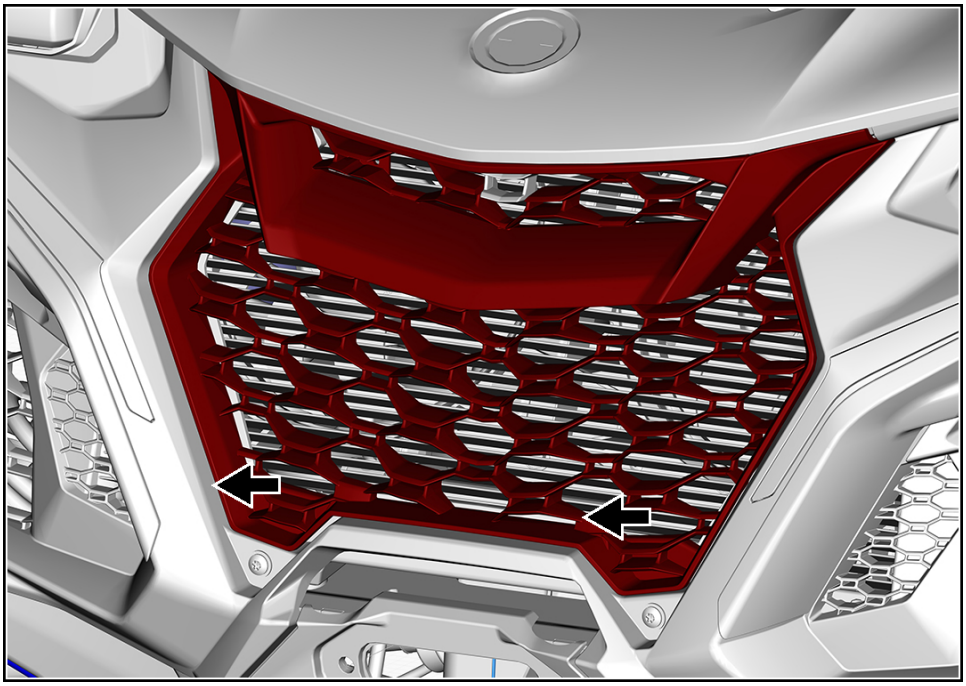
VEHICLE PREPARATION

1. If a winch is fitted, you must remove the roller fairlead. You have access to the nuts through the holes below the skid plate.

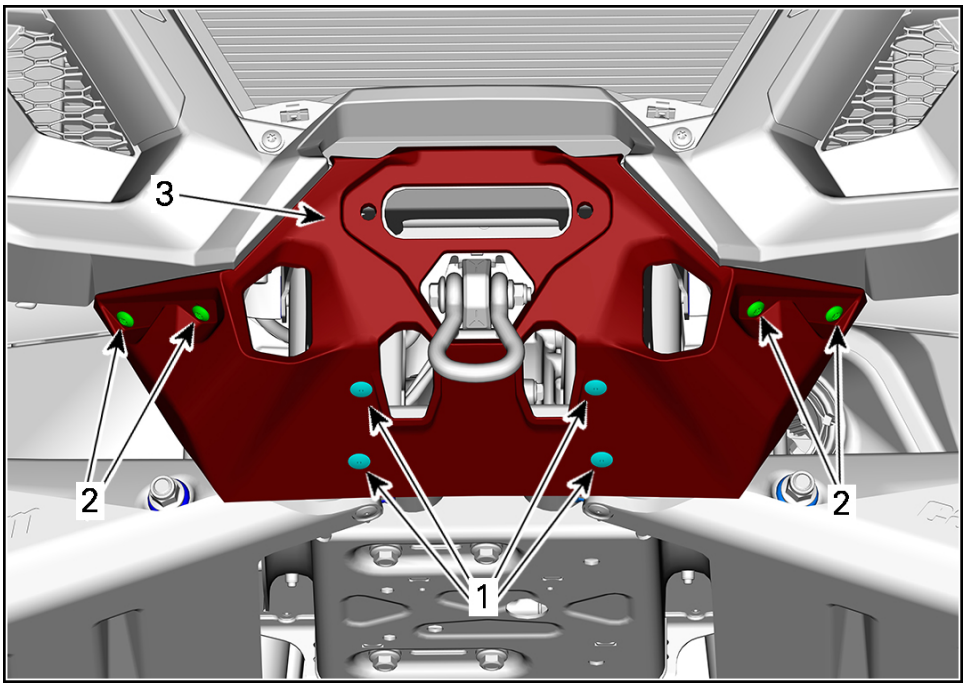


1. *Hole to access fairlead nut*

2. Remove the grid by pulling from the bottom.



3. Drill the four rivets using 4.76 mm (3/16 in) **T1** drill bit and remove the four M6 screws holding the skid plate in place. Keep the M6 screws for reinstallation.



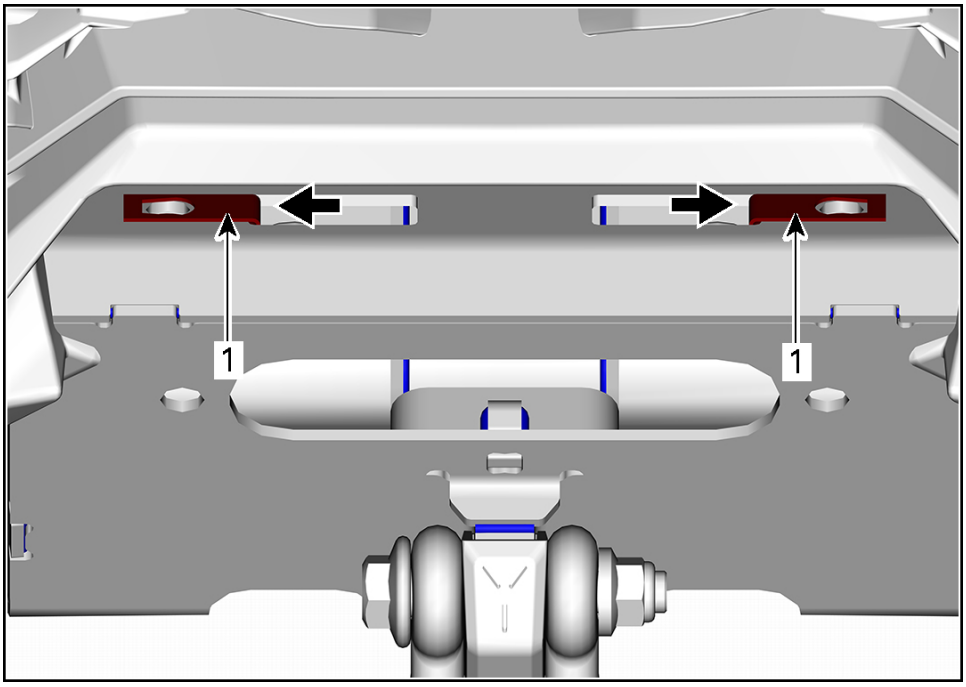
1. 3/16 rivet for drilling

2. M6 screw

3. Skid plate

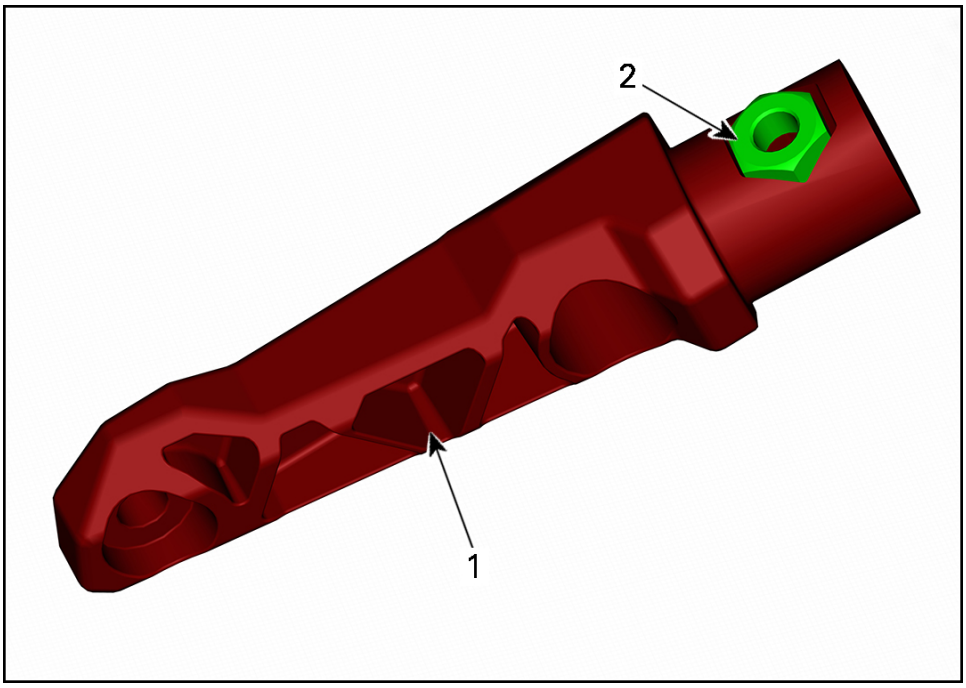
INSTALLATION INSTRUCTIONS

1. Insert the two M8 panel nuts [P7] in the rectangles provided for this purpose as shown below.



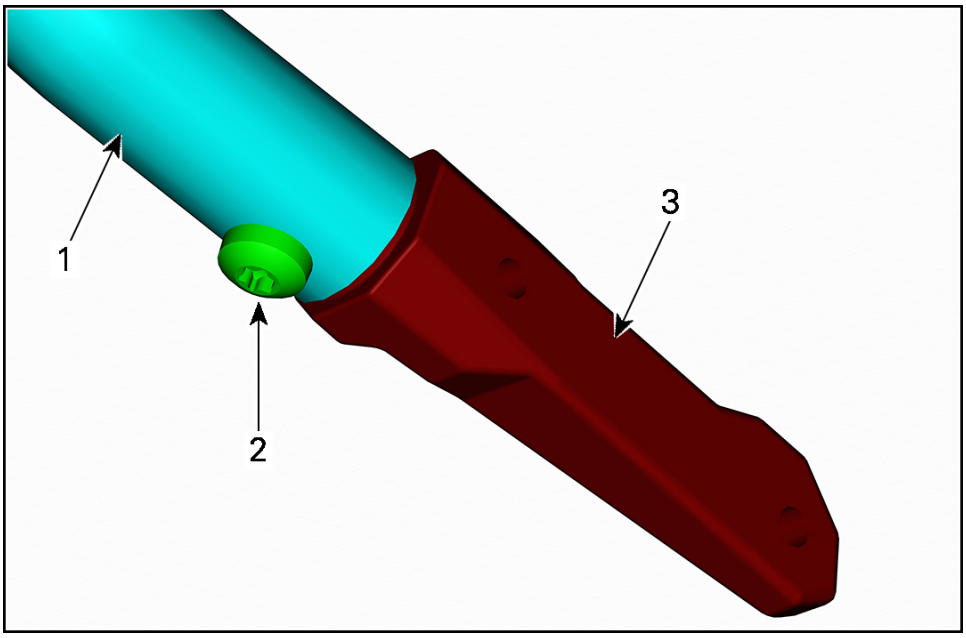
1. M8 Panel nut [P7]

2. Take the M10 elastic self-lock nut [P6] and insert it inside the castings [P3-P4].



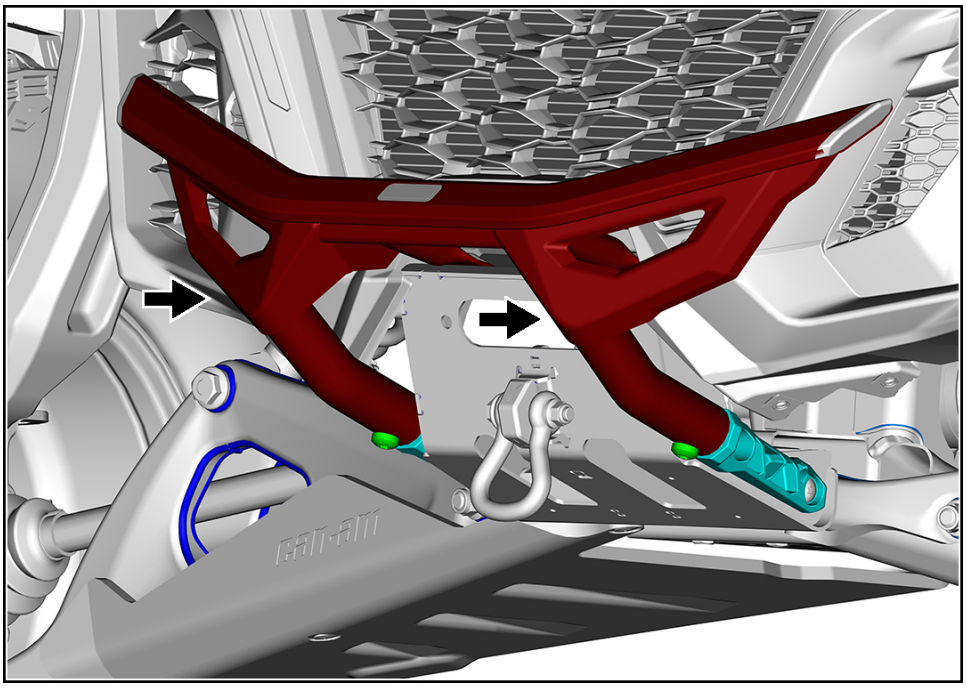
1. *Casting [P3-P4]*
2. *M10 Elastic self-lock nut [P6]*

3. Slide the castings into the bumper and insert the M10 X 30 Torx screw [P5] through the bumper. Engage the screws by hands until the Scotch Grip in the M10 nut inside the casting is reached. Do not tighten yet.

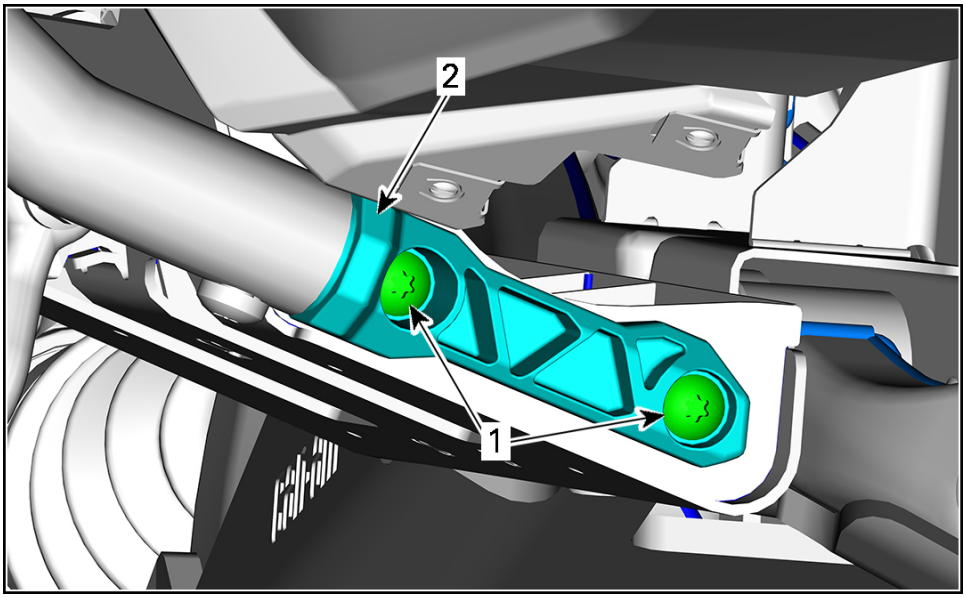


1. *Front bumper [P1]*
2. *M10 X 30 Torx screw [P5]*
3. *Casting [P3-P4]*

4. Insert the bumper onto the frame.

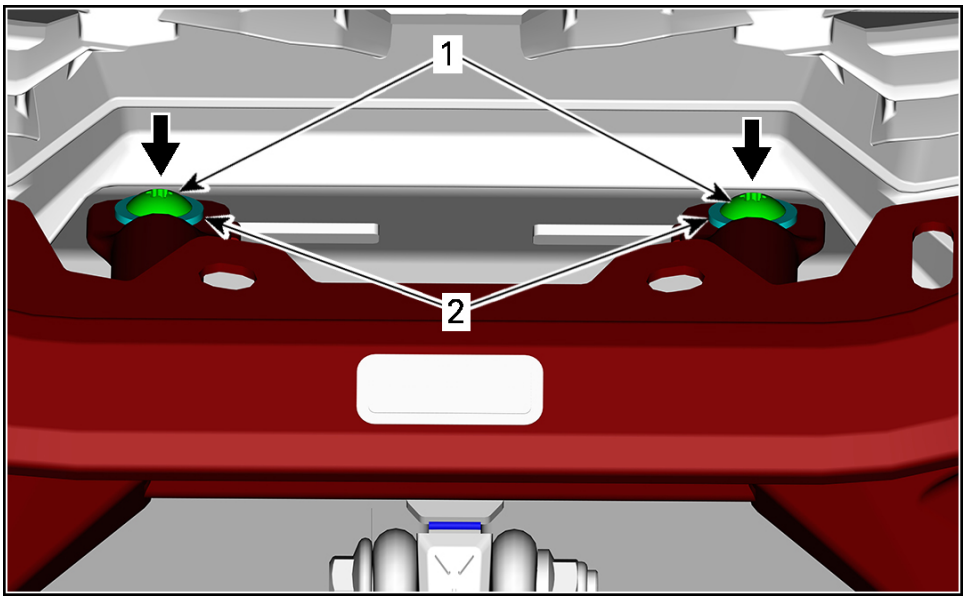


5. Fix the castings [P3], [P4] on the frame using four M8 X 30 Torx screws [P11] and four M8 elastic flanged nut [P9]. Do not tighten yet.



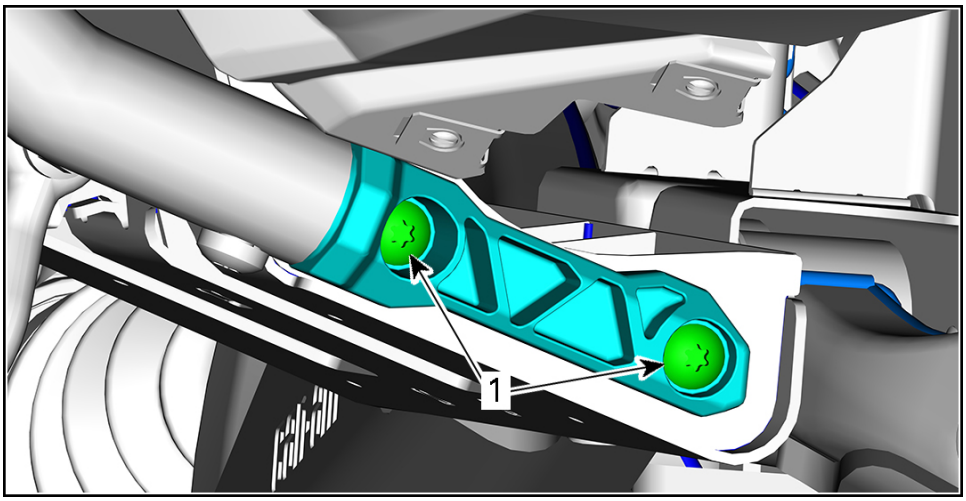
1. *M8 X 30 Torx screw [P11]*
2. *Right casting [P4]*

6. Insert the two M8 X 20 Torx screws [P8] and M8 stainless flat washers [P10] into the bumper. Engage by hand until the Scotch Grip is reached.



1. *M8 X 20 Torx screw [P8]*
2. *M8 Stainless washer [P10]*

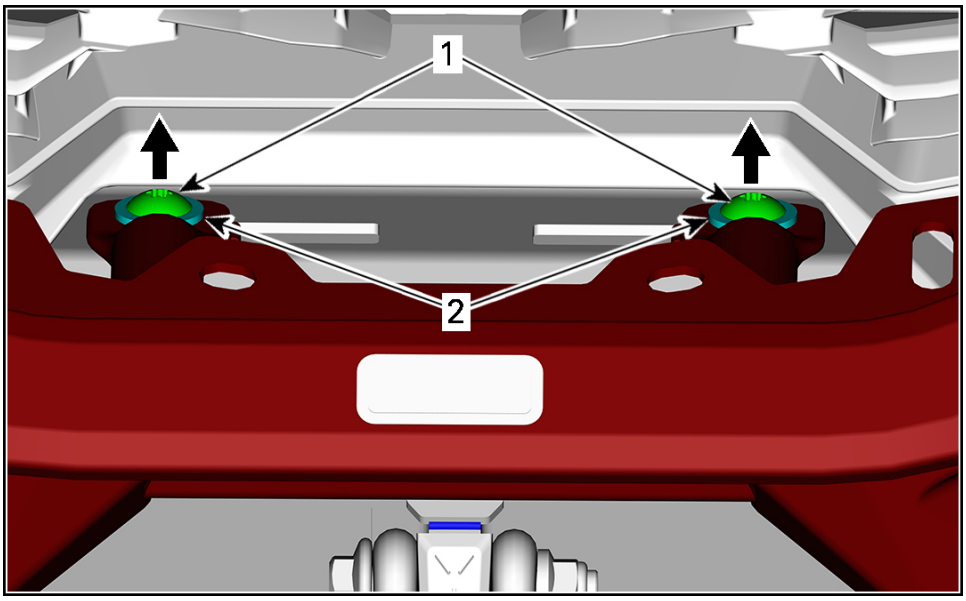
7. Tighten the four M8 X 30 Torx screws [P11] to specification.



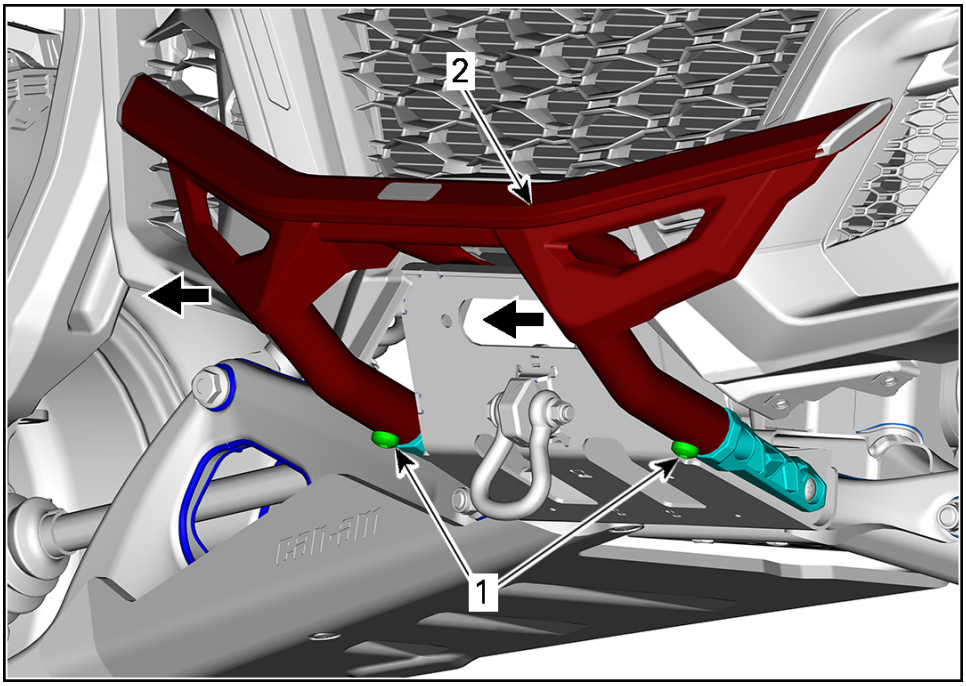
1. *M8 X 30 Torx screw [P11]*

TIGHTENING TORQUE	
M8 X 30 Torx Screw [P11]	24.5 ± 3.5 N•m (18.1 ± 2.6 Lbf-ft)

Remove M10 X 30 Torx screws [P5] and M8 X 20 screws [P8] to remove the bumper from the newly tightened castings.

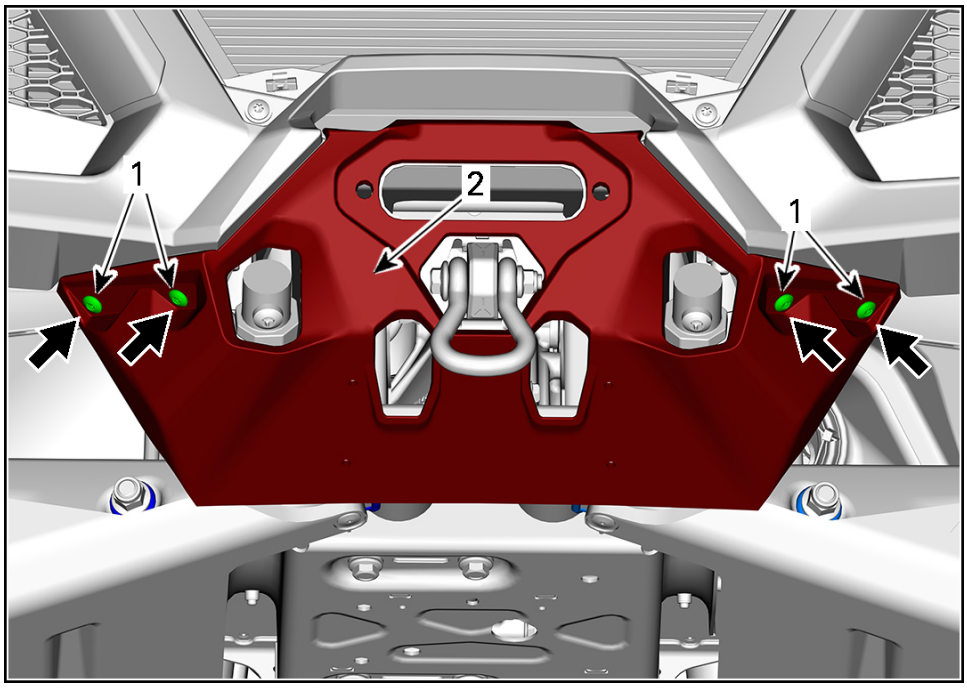


1. *M8 X 20 Torx screw [P8]*
2. *M8 Washer [P10]*



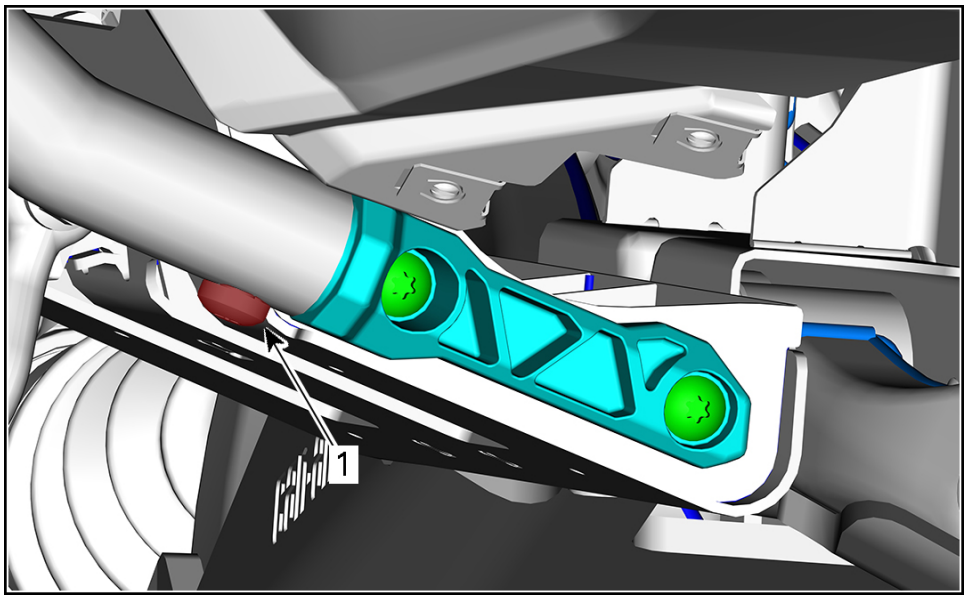
1. *M10 X 30 Torx screw [P5]*
2. *Front bumper [P1]*

9. Reinstall the skid plate with the four previously removed M6 screws. Engage the screws into the panel nuts on the bodywork. Do not tighten yet.

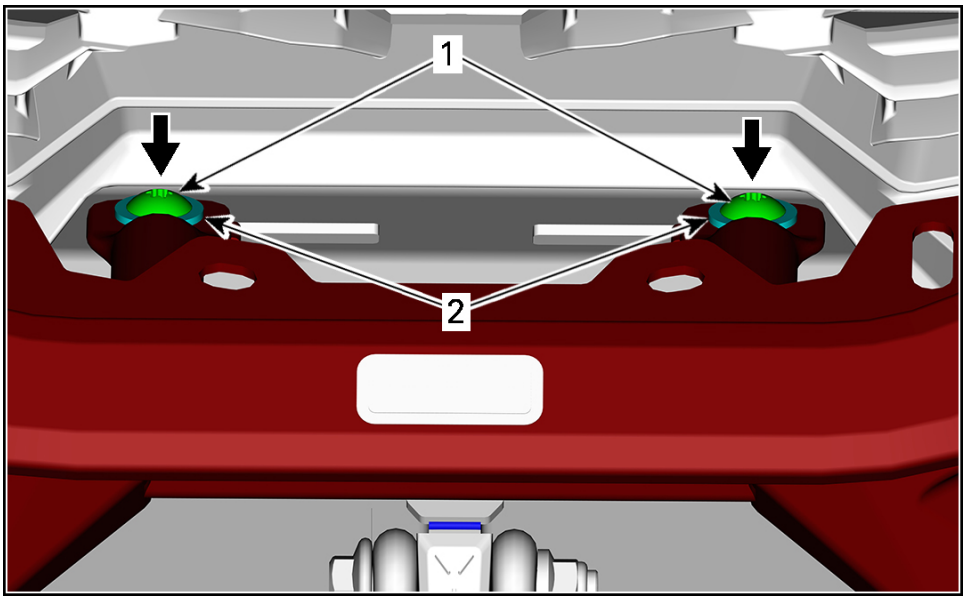


1. *M6 screw*
2. *Skid plate*

10. Reinstall the bumper on the castings and engage the M10 X 30 Torx screw [P5] and the M8 X 20 screw [P8].

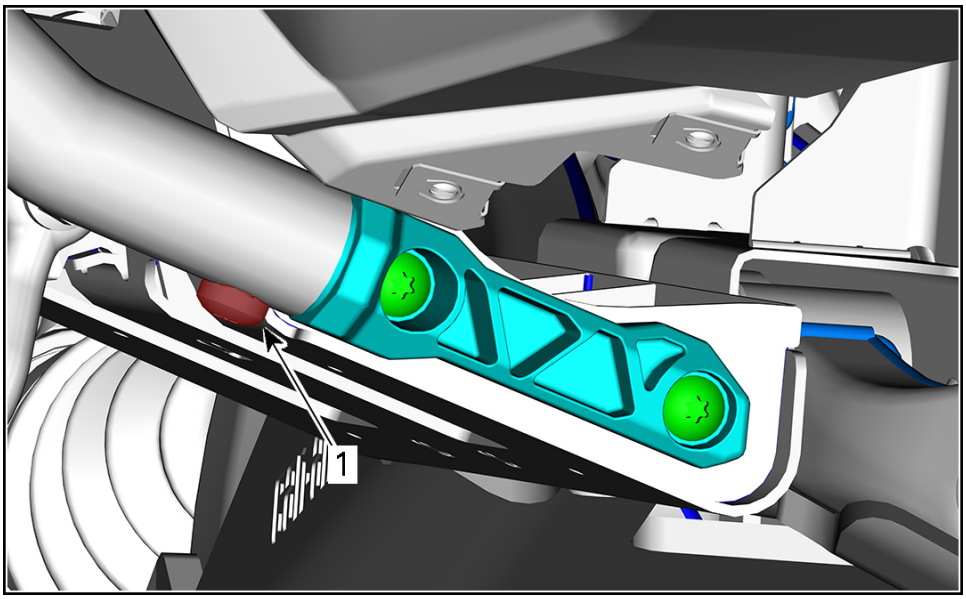


1. *M10 X 30 Torx screw [P5]*



1. *M8 X 20 Torx screw [P8]*
2. *M8 Washer [P10]*

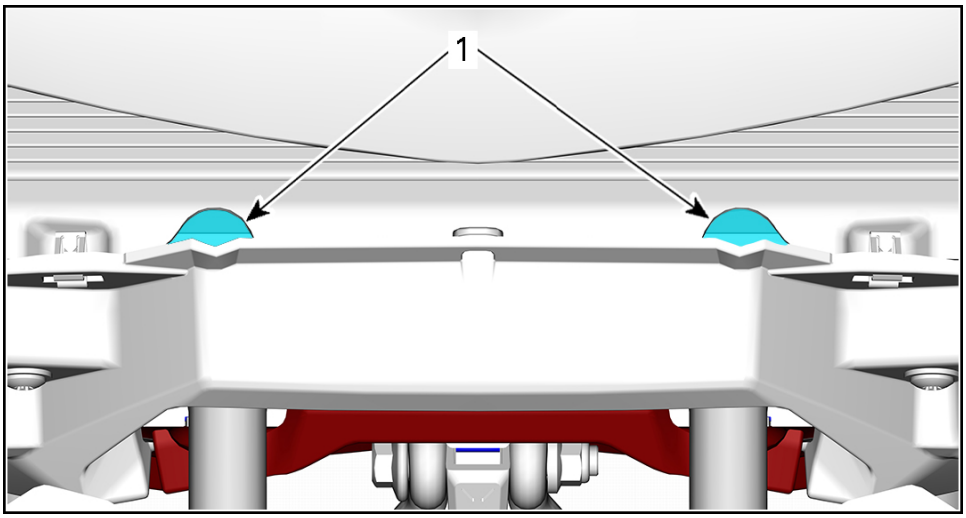
11. Tighten the M10 X 30 Torx screws [P5] to specification.



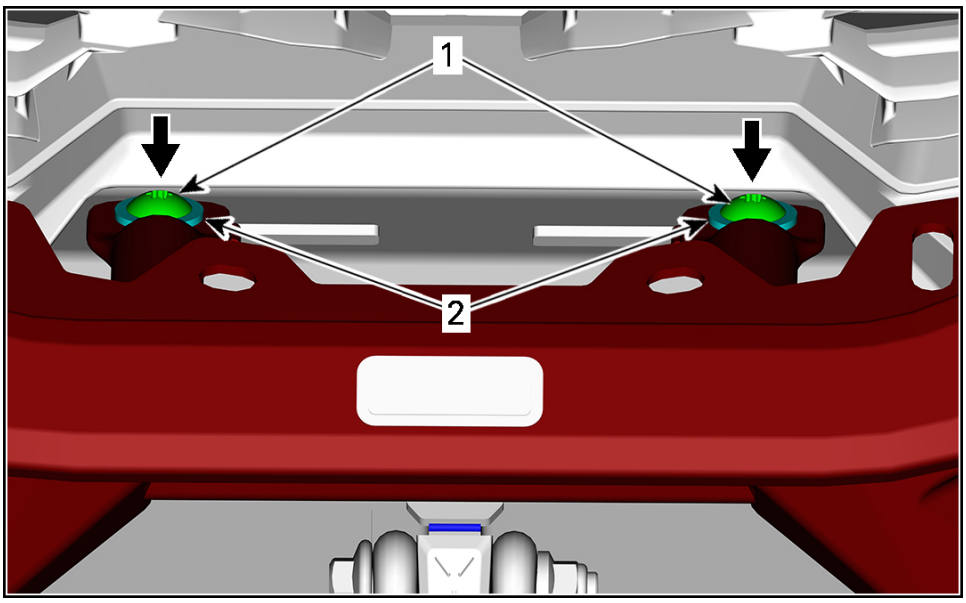
1. *M10 X 30 Torx screw [P5]*

TIGHTENING TORQUE	
M10 X 30 Torx Screw [P5]	61 ± 9 N•m (45 ± 6.6 Lbf-ft)

Tighten the two M8 X 20 screw [P8] through the opening of the grid. Tighten to specification.



1. Opening to access M8 X 20 Torx screws [P8]

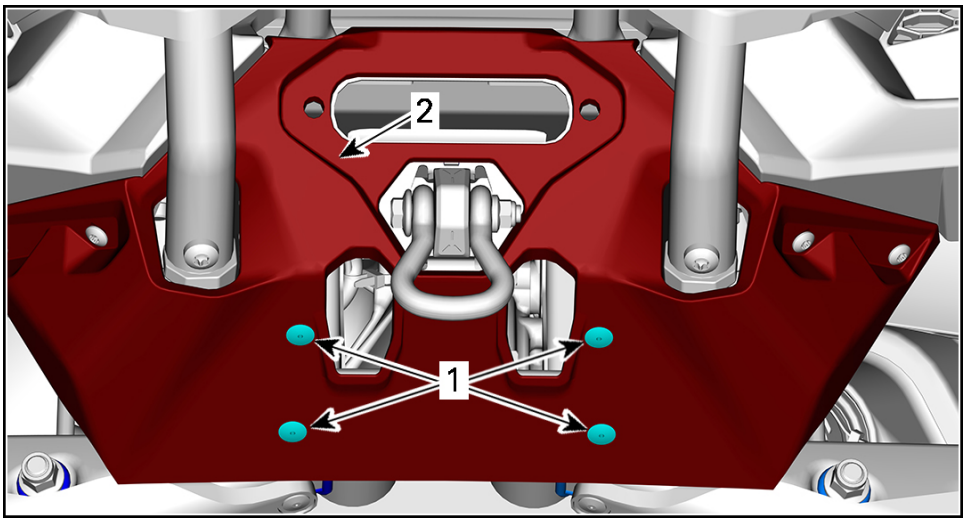


1. M8 X 20 Torx screw [P8]

2. M8 Washer [P10]

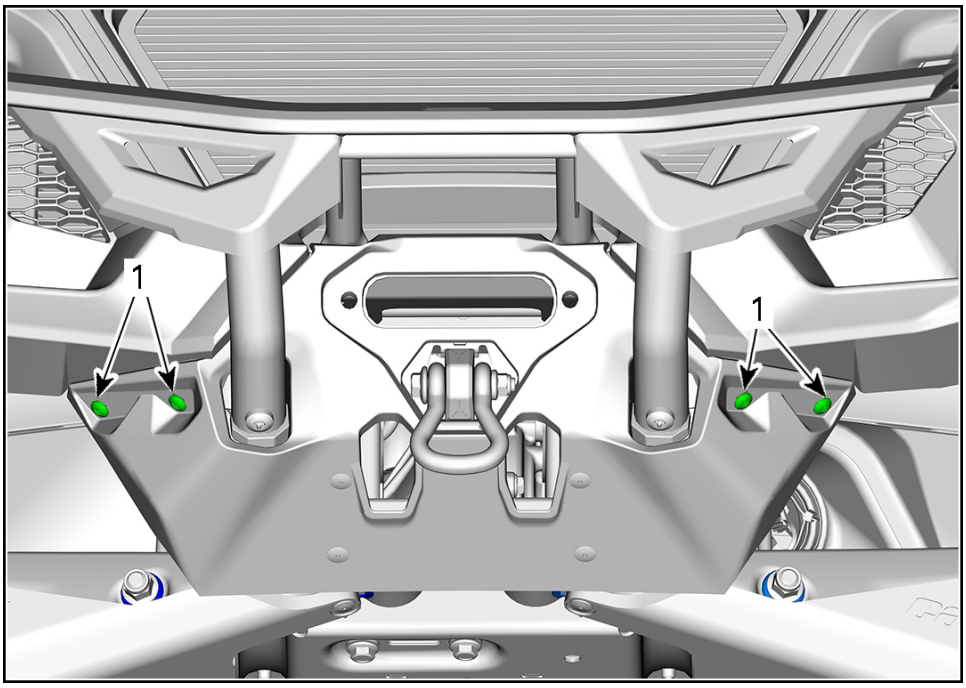
TIGHTENING TORQUE	
M8 X 20 Torx Screw [P8]	2.5 ± 0.5 N•m (22 ± 4 Lbf-**in**)

13. Install the four 3/16 X .550 black pop rivets [P12] on the skid plate.



1. *3/16 X .550 black pop rivets [P12]*
2. *Skid plate*

14. Tighten the four M6 screws to specification.



1. *M6 Screw*

TIGHTENING TORQUE	
Previously removed M6 screw	2.5 ± 0.5 N•m (22 ± 4 Lbf-**in**)

LABEL

This product comes with the following label containing important information.

The label should be considered a permanent part of this product. If the label comes off or becomes hard to

read, please contact an authorized dealer for FREE OF CHARGE replacement.

Any person who intends to use this product should read and understand the information contained on the label before doing so.

NOTICE NEVER attach here to pull a load



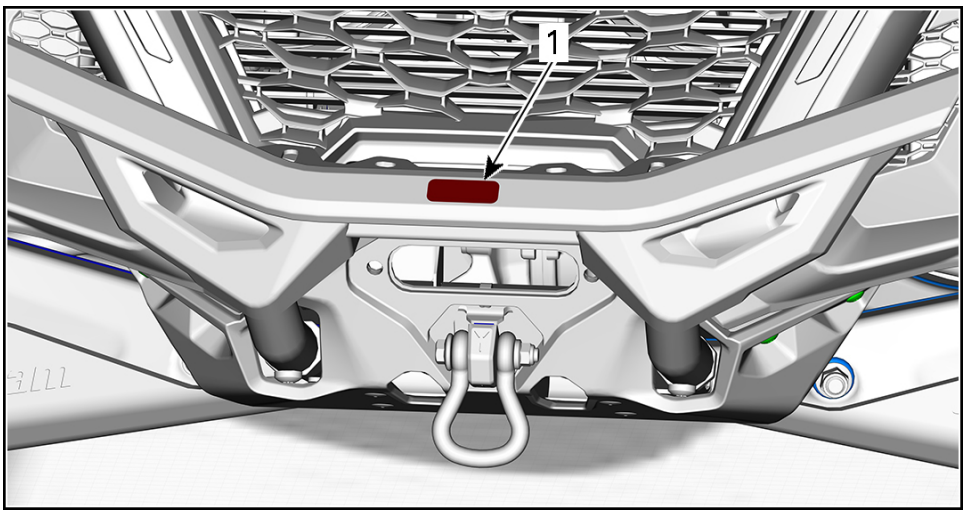
A Pictogram label is available in the kit and must be installed in accordance with Market Regulation.



To install the Pictogram label, do the following:

- Clean the entire original label surface using isopropyl alcohol and dry thoroughly.
- Carefully install the Pictogram label OVER the original label.

Position of Label



1. Notice label