



INSTALLATION INSTRUCTIONS

SEMI-HIDDEN WINCH INSTALL

Part Number: 102874

Application: 2012-2015 Toyota Tacoma

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 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** wear safety glasses when installing this kit. A drilling operation will cause flying metal chips. Flying chips can cause eye injury.
- **Always** use extreme caution when cutting and trimming during fitting.
- **Always** remove jewelry and wear eye protection.
- **Never** lean over battery while making connections.
- **Never** route electrical cables:
 - Across any sharp edges.
 - Through or near moving parts.
 - Near parts that become hot.
- **Always** insulate and protect all exposed wiring and electrical terminals.
- **Always** install terminal boots as directed in installation instructions.
- **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 instructions.
- **Always** perform regular inspections and maintenance on the plow mechanism, fasteners, cable and related hardware.
- **Always** replace all worn or damaged parts before operating.
- **Never** operate this WARN product with damaged or missing parts.

Read installation and operating instructions thoroughly.

WARN INDUSTRIES, INC. 12900 S.E. Capps Road,
Clackamas, OR USA 97015-8903, 1-503-722-1200, FAX: 1-503-722-3000
Customer Service: 1-800-543-9276
Dealer Locator Service: 1-800-910-1122
International Fax: 1-503-722-3005

⚠ CAUTION

MOVING PARTS ENTANGLEMENT HAZARD

Failure to observe these instructions could lead to minor or moderate injury

- **Always** take time to fully read and understand the installation and Operations Guide included with this product.
- **Never** operate this product if you are under 16 years of age.
- **Never** operate this product when under the influence of drugs, alcohol or medications.

Read installation and operating instructions thoroughly.

NOTICE

EQUIPMENT DAMAGE

- **Never** tow vehicle by attaching a tow bar to the eyelets on the bumper.
- **Never** attach tow bars directly to the bumper. Damage to bumper may occur. WARN bumpers are not designed to be used for flat towing. Consult with the manufacturer of your tow bar system for the proper vehicle tow bar brackets..

Read installation and operating instructions thoroughly.

NOTICE



This product may interfere with driver assist systems such as adaptive cruise control and parking assist systems that have sensors or cameras installed in the bumpers or front grill area. If your vehicle is equipped with any of these systems or features, consult your vehicle owner's manual before installing this product. These systems may need to be disabled as a result of installing this product.

TABLE OF CONTENTS

Tools Required.....	page 2
Torque Specifications.....	page 2
Parts List.....	page 3
Installation	page 4-12
Maintenance/Care.....	page 12

TOOLS REQUIRED

- Standard and Metric wrenches
- Standard and Metric sockets

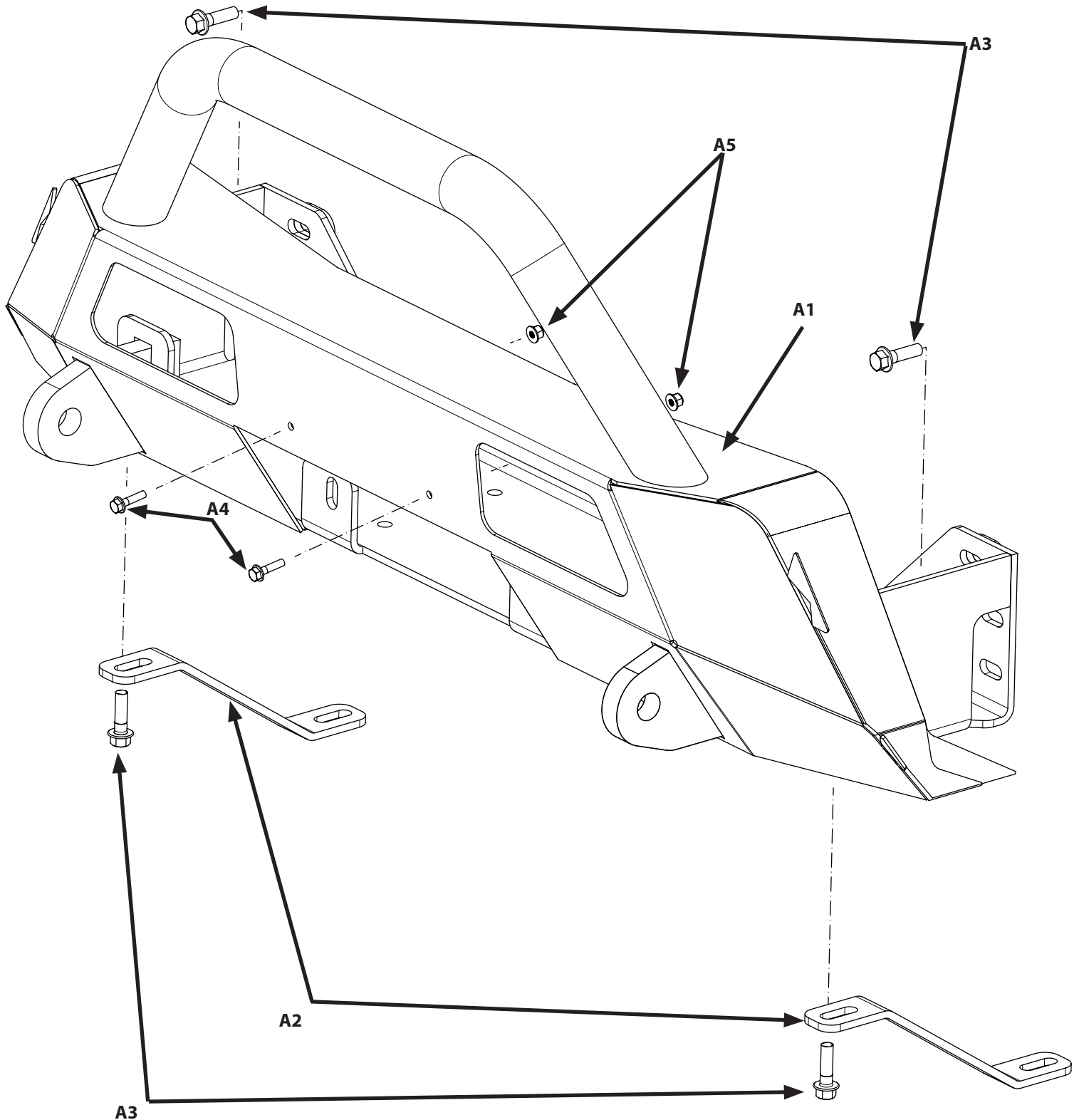
TORQUE SPECIFICATIONS

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

FASTENER SIZE	FASTENER TORQUE		FASTENER SIZE	FASTENER TORQUE	
	lb-ft	(N.m)		lb-ft	(N.m)
1/4"	8	(11)	M4	(2)	3
5/16"	17	(23)	M5	(4.5)	6
3/8"	30	(40)	M6	(7.5)	10
7/16"	48	(66)	M8	(18)	25
1/2"	74	(100)	M10	(37)	50
9/16"	106	(144)			
5/8"	148	(200)			
3/4"	269	(364)			

PARTS LIST

ITEM	PART NUMBER	DESCRIPTION	QTY
A1	102448	SEMI HIDDEN WINCH MOUNT	1
A2	102385	FRAME BRACKET STRAP	2
A3	91164	FLANGE BOLT M10X35-1.25	4
A4	64108	FLANGE BOLT M6X25-1.00	2
A5	83125	FLANGED NUT HEX M6X1.0	2



INSTALLATION INSTRUCTIONS

1. Remove the two screws at the top edge of the grille using a 10mm socket.
2. Remove the two push pins at the outer corners of the grille.
3. Pull the grille out/forward, being careful to not break the clips located at the bottom corners of the grille.
4. Unplug fog lights by squeezing the locking tab socket. Repeat for other side.

NOTE: If equipped, unplug parking sensors.

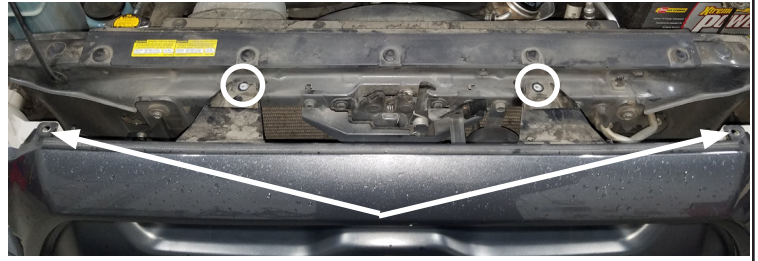


Figure 1



Figure 2

5. Remove the three top bumper plastic push pins.



Figure 3

6. Remove the two bumper cover bottom center screws.

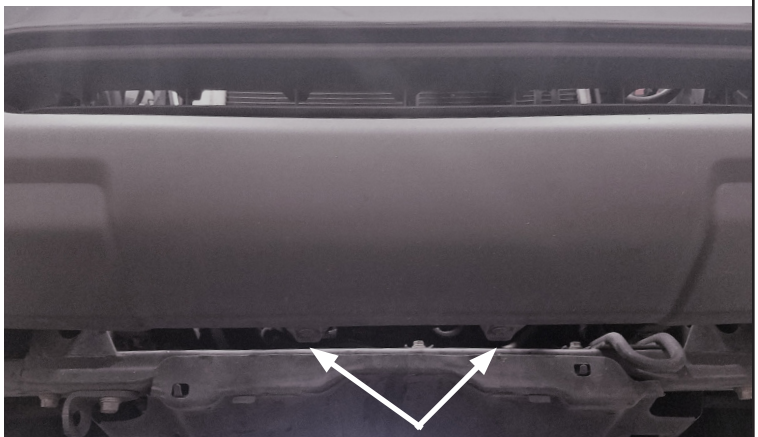


Figure 4

7. Remove the two bumper cover corner screws (each side).



Figure 5

8. Remove the ¼-turn fastener (each side) using a wide slotted screwdriver and turning 90° counter clockwise.



Figure 6

9. Remove the screw using a 10mm socket. **NOTE: The screw is not visible and must be reached through an existing cutout in the wheel well liner.**



Figure 7

10. Remove the headlight finisher panel by squeezing the green clip and push away from the vehicle. Repeat for other side.

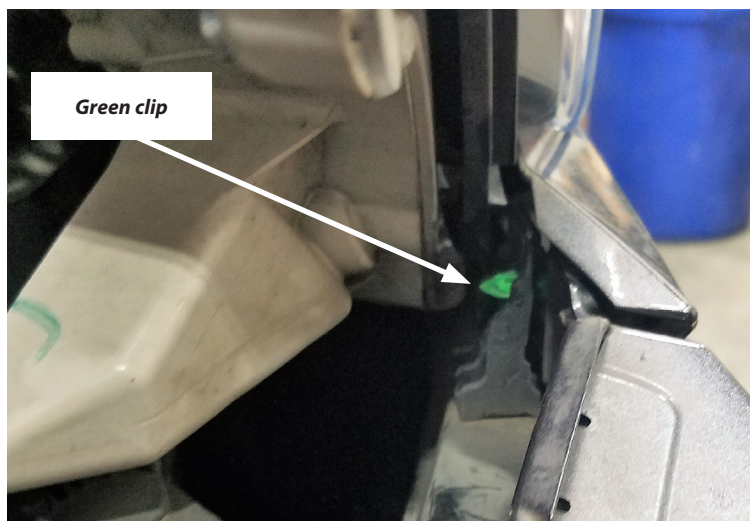


Figure 8

11. With the green clip released, pull the finisher panel firmly towards the center of the vehicle and carefully remove. Repeat for other side.



Figure 9

12. With the headlight finisher removed on each side, firmly grasp the bumper cover at the wheel well and pull firmly out until both internal clips have released. Repeat for other side.



Figure 10

13. Carefully remove bumper cover and set face down on a padded surface.
14. Remove the valance from the bumper cover by depressing the locking tang on each blue clip with a small screwdriver or pick and pulling on the large tab. Figure 11 and 12.

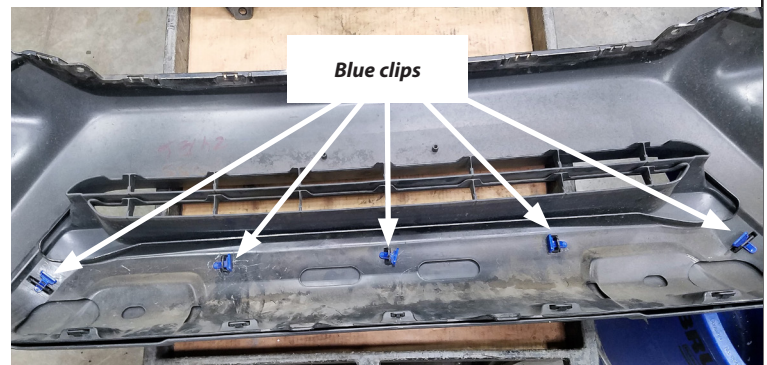


Figure 11



Figure 12

15. Unclip the remaining lower clips by squeezing the locking tangs through the slots in the bumper cover.
16. The bumper cover can now be lifted away from the valence panel.

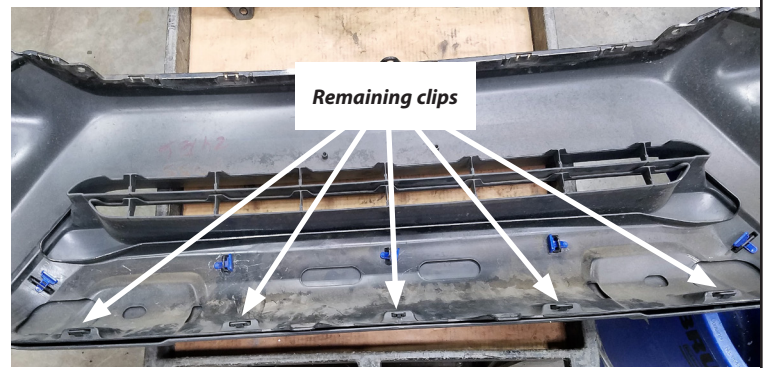


Figure 13

17. With the bumper cover on a stable surface, it can now be modified to fit the new kit.
18. Using a pneumatic reciprocating saw or other suitable tool, cut along the lines shown. Be sure to cut inside the body lines to leave as much of the original plastic intact as possible. Be careful to not damage the paint on other areas of the bumper cover. **NOTE: It may be helpful to mask the areas near around the cuts to prevent damage during modification and installation.**



Figure 14

19. Using a deep 14mm socket, remove the 6 nuts holding the crash bar to the frame extensions. **Save nuts to be reused later.**



Figure 15

20. With the crash bar removed, use a 14mm deep socket to remove the six nuts securing the frame extensions. **Save nuts to be reused later. These nuts will be reused in the mounting of the new kit.**

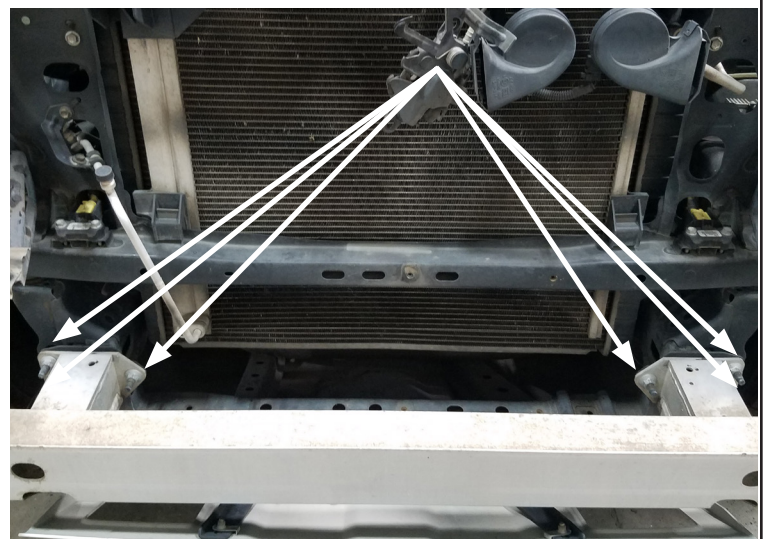


Figure 16

20. Remove frame extension.

21. Reinstall bumper cover.



Figure 17

22. Firmly snap in the locking tabs at the upper corners of the bumper cover in front of the wheel well.



Figure 18

23. Reinstall the ¼ turn fasteners by inserting and turning 90° clockwise with a wide slotted screwdriver. Repeat for other side.



Figure 19

24. Carefully insert and thread the screw through the cutout in the wheel well liner. Repeat for other side.



Figure 20

25. Reinstall the outermost of the bumper cover corner screws (each side).



Figure 21

26. Reinstall the headlight finisher trim pieces beneath the headlight by sliding the locking tab into the slot and then inserting the green pin in appropriate hole.

Repeat for other side.



Figure 22

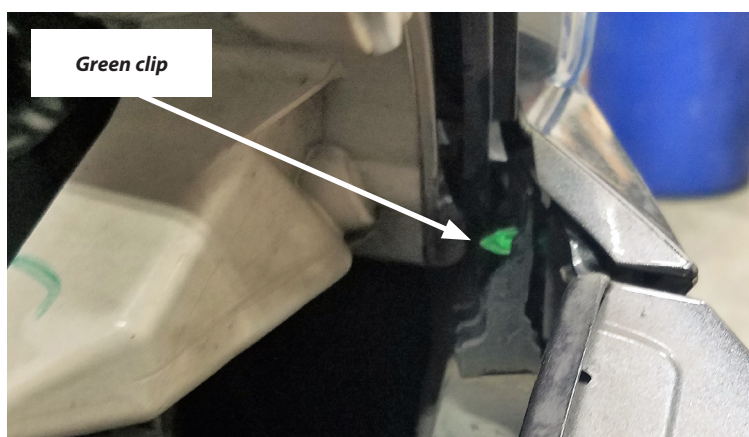


Figure 23

27. If equipped, plug in fog lights and parking sensors (both sides).



Figure 24

For TRD models: First remove stock tow hooks on passenger side before installing winch kit.

28. Place winch inside new semi hidden winch mount (A1).
NOTE: Lay winch on its side so it will fit inside vehicle. You flip upright as soon as bumper is on vehicle.



Figure 25

29. Install fairlead using instructions and hardware found in the winch kit.

30. With assistance, place mount on vehicle.

31. Flip winch upright.

32. Secure with six factory frame extension nuts (removed in step 16).

33. Secure and wire winch to mount and vehicle per winch installation instructions.

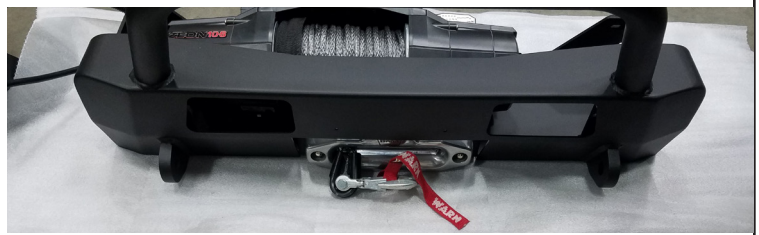


Figure 26

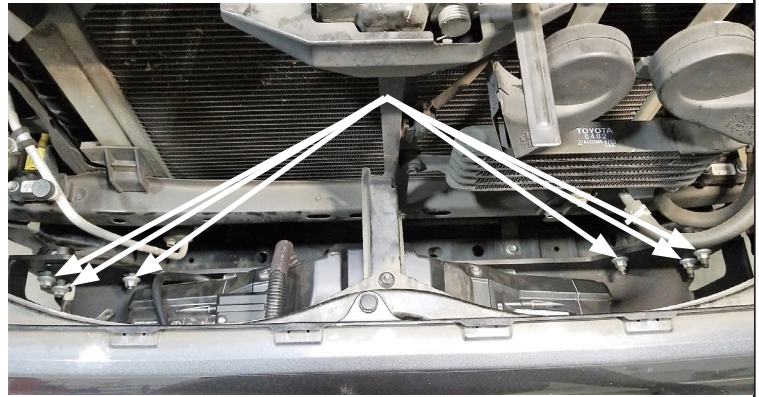


Figure 27

34. Install two bolts (A3) through top hole on mount.

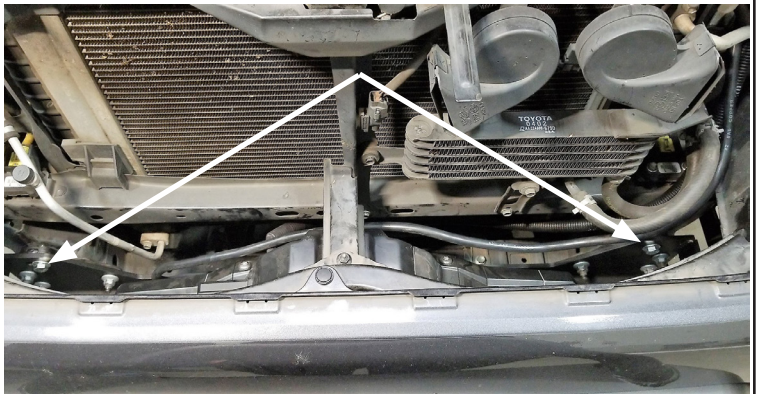


Figure 28

35. From underneath vehicle, install one factory nut (removed in step 15) on bolts (A3) installed above.



Figure 29

36. From underneath vehicle, remove factory frame bracket bolt and set aside.

37. Repeat for other side.



Figure 30

38. Install frame bracket strap (A2) and reinstall factory bolt in same position just removed.
39. Install kit bolt (A3) in other hole and secure with one of the remaining factory nuts.
40. Repeat for other side.

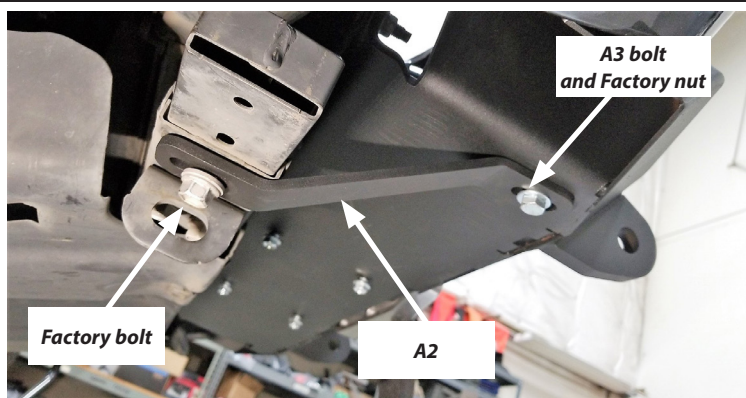


Figure 31

41. Reinstall grille.
42. Push the grille back into the locking tabs and slots located at the bottom corners.
43. Reinstall the two outer push pins and two center screws.



Figure 32

44. Install license plate with hardware included (A4 & A5).

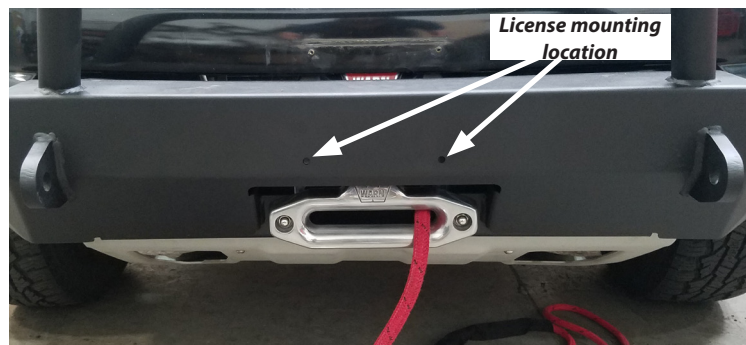


Figure 33

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.