# INSTALLATION INSTRUCTIONS

## FRONT BUMPER

### Part Number: 102506

### Application: 2018 Maverick Trail and Sport

## 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

©2016 Warn Industries, Inc. WARN® and the WARN logo are trademarks of Warn Industries Inc.

## ⚠ 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..
- **Never** overtighten u-bolt nuts. Overtightening may cause damage to vehicle frame.

**Read installation and operating instructions thoroughly.**

## TABLE OF CONTENTS


Tools Required.....page 2
Torque Specifications.....page 2
Parts List.....page 3
Installation.....page 4-5
Maintenance/Care.....page 5


## 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.

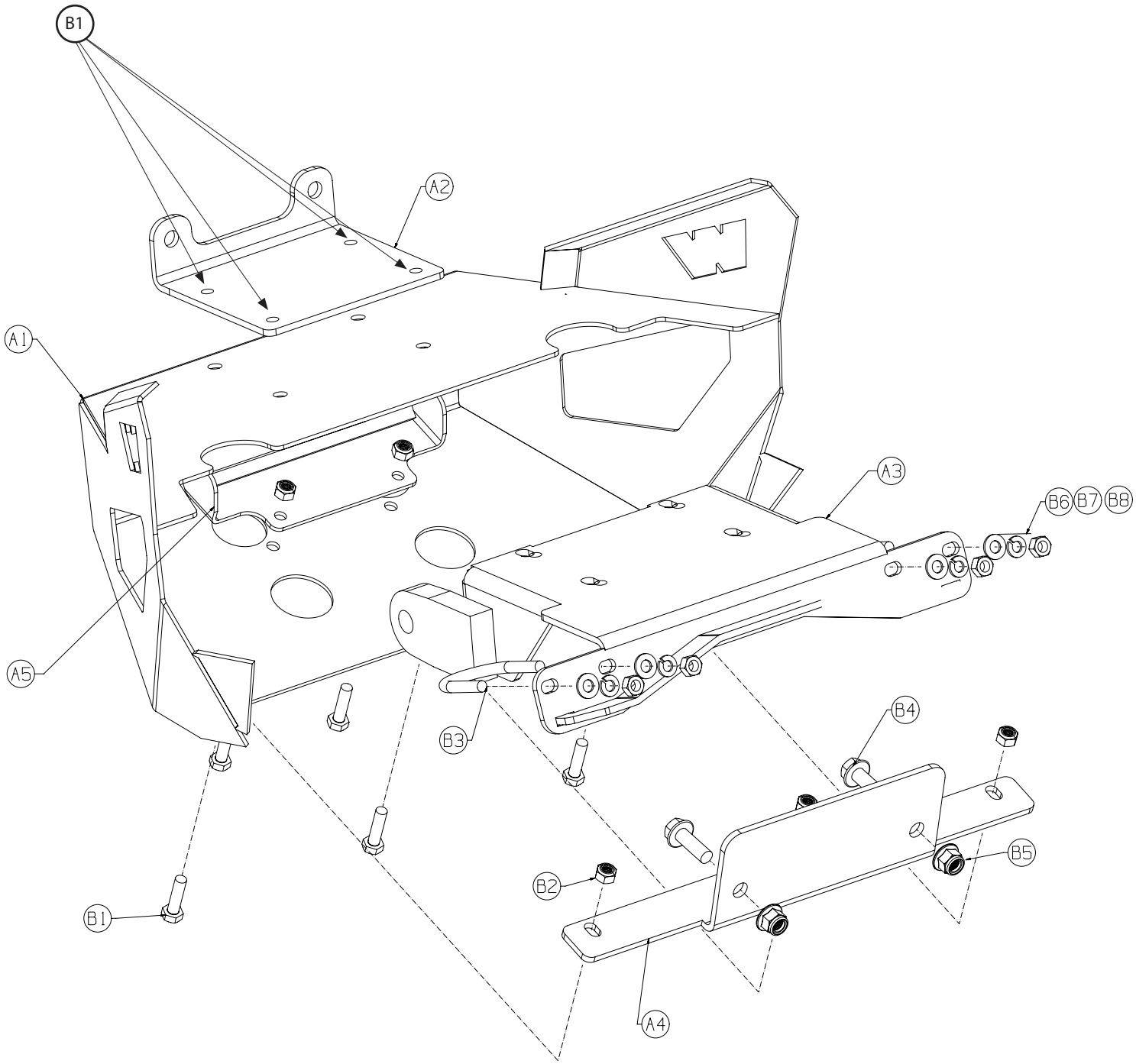
| *FASTENER SIZE* | *FASTENER TORQUE* | | *FASTENER SIZE* | *FASTENER TORQUE* | |
|---|---|---|---|---|---|
| | *lb-ft* | *(N.m)* | | *lb-ft* | *(N.m)* |
| *1/4"* | *8* | *(11)* | *M4* | *(2)* | *3* |
| *5/16"* | *17* | *(23)* | *M5* | *(4.5)* | *6* |
| *3/8"* | *30* | *(40)* | *M6* | *(7.5)* | *10* |
| *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)* | | | |

***NOTICE: Torque does not apply to u-bolts.***

©2016 Warn Industries, Inc. WARN® and the WARN logo are trademarks of Warn Industries Inc.

# PARTS LIST

| ITEM | PART NUMBER | DESCRIPTION | QTY | ITEM | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|---|---|---|---|
| A1 | 10254 | BUMPER | 1 | B1 | 93104 | M8 HEX HEAD BOLT | 9 |
| A2 | 102636 | FAIRLEAD BRACKET | 1 | B2 | 22491 | M8 LOCK NUT | 5 |
| A3 | 102505 | BUMPER WINCH SUPPORT | 1 | B3 | 86814 | M8 U-BOLT | 2 |
| A4 | 102525 | LOWER SUPPORT BRACKET | 1 | B4 | 79583 | M10 HEX HEAD BOLT | 2 |
| A5 | 10278 | LIGHT BRACKET | 1 | B5 | 87232 | M10- LOCK NUT | 2 |
| | | | | B6 | 1324 | FLAT WASHER | 4 |
| | | | | B7 | 1402 | LOCK WASHER | 4 |
| | | | | B8 | 13455 | M8 NUT | 4 |




©2016 Warn Industries, Inc. WARN® and the WARN logo are trademarks of Warn Industries Inc.

# INSTALLATION INSTRUCTIONS

1. Install lower support bracket (A4) with two bolts (B4) and nuts (B5).




*Figure 1*

2. With assistance, hold bumper in place to measure where the bumper hits tube.
3. Mark tubes where bumper meets tubes and set aside bumper.



*Figure 2*

4. Where you marked the tubes, install bumper skid support (A3) with u-bolts (B3), and fasteners (B6, B7 and B8).
5. When tightening hardware, be care to not crush tubes.

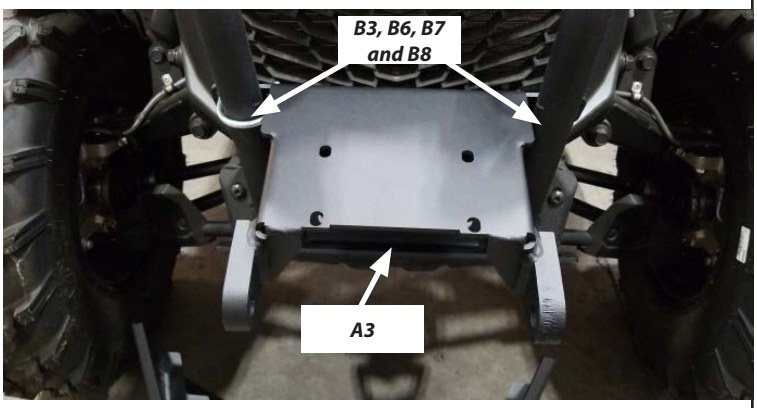



*Figure 3*

6. Place bumper in place.



*Figure 4*

©2016 Warn Industries, Inc. WARN® and the WARN logo are trademarks of Warn Industries Inc.

7. Secure bumper to support with three bolts (B1) and nuts (B2). ***Do not tighten hardware completely.***

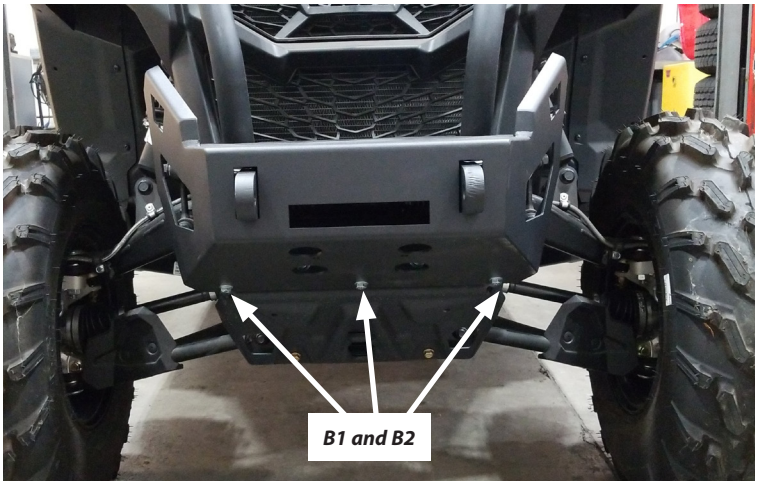



***Figure 5***

8. Install fairlead to fairlead bracket (A2) using hardware that is included with fairlead.

9. Place fairlead bracket assembly on bumper (aligning holes).



***Figure 6***

10. Mount winch using the four longer M8 bolts **included in this kit** (B1).

    Refer to your winch installation instruction for wiring detail. **NOTE: If installing an AXON winch, install the red and black cables BEFORE mounting to bumper.**

11. Install light bracket (A5) by sliding through the side of the bumper and install using two bolts (B1) and nuts (B2).

12. Tighten all hardware now. ***NOTICE*** ***NEVER overtighten u-bolt nuts. Overtightening may cause damage to vehicle frame.***

13. Your installation is complete.




***Figure 7***

## 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.

©2016 Warn Industries, Inc. WARN® and the WARN logo are trademarks of Warn Industries Inc.