



DEFENDER SERIES WINCH TRAY

INSTALLATION INSTRUCTIONS



SAFETY

Know safety, no injury. Know injury, no safety. ~Author Unknown

If there are any questions, call 1-855-HHTOUGH

READ ALL SAFETY INSTRUCTIONS BEFORE INSTALLATION

- FOLLOW ALL INSTRUCTIONS FOR PROPER ASSEMBLY
- WEAR APPROPRIATE EYE PROTECTION
- EXERCISE CARE WHEN LIFTING COMPONENTS
- USE APPROPRIATE TORQUE FOR BOLTS
- RE-TORQUE HARDWARE AT EVERY OIL CHANGE.

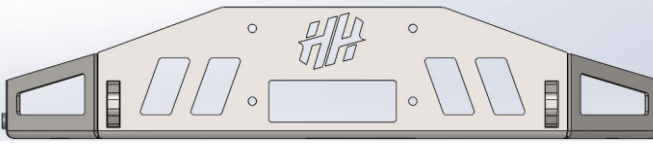

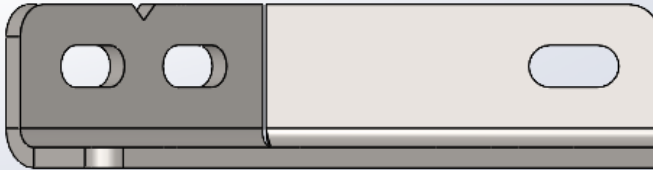
| Suggested Torque Values For Steel Grade 5 Standard Bolts | | |
|---|------------------|-----------------------|
| BOLT DIAMETER (INCH) | THREADS PER INCH | TORQUE (POUND - FEET) |
| 1/4 | 20 | 7 |
| 5/16 | 18 | 14 |
| 3/8 | 16 | 25 |
| 7/16 | 14 | 40 |
| 1/2 | 13 | 60 |
| 9/16 | 12 | 88 |
| 5/8 | 11 | 120 |
| 3/4 | 10 | 200 |
| 7/8 | 9 | 302 |
| 1 | 8 | 466 |

| Suggested Torque Values For Steel Grade 8.8 Metric Bolts | | |
|---|-------------------|---------------------|
| BOLT DIAMETER (mm) | THREAD PITCH (mm) | TORQUE (POUND-FEET) |
| 6 | 1.0 | 7 |
| 8 | 1.25 | 16 |
| 10 | 1.5 | 32 |
| 12 | 1.75 | 55 |
| 14 | 2.0 | 88 |
| 16 | 2.0 | 140 |
| 18 | 2.5 | 195 |
| 20 | 2.5 | 275 |
| 22 | 2.5 | 375 |
| 24 | 3.0 | 475 |





I. PARTS LIST

| | |
|---|--|
| Item 1 DEFENDER SERIES WINCH TRAY QTY. 1 | ITEM 2 LEFT LOWER GUSSET QTY. 1 |
|  |  |
| ITEM 3 RIGHT LOWER GUSSET QTY. 1 | ITEM 4 HARDWARE KITS |
|  | ✓ HARDWARE KIT #216 (60K-56-0216) |

REMOVE CONTENTS FROM BOX AND VERIFY ALL PARTS ARE PRESENT.

If there are any questions, call 1-855 HHTOUGH or email HHORDERS@hammerheadarmor.com

II. TOOL LIST

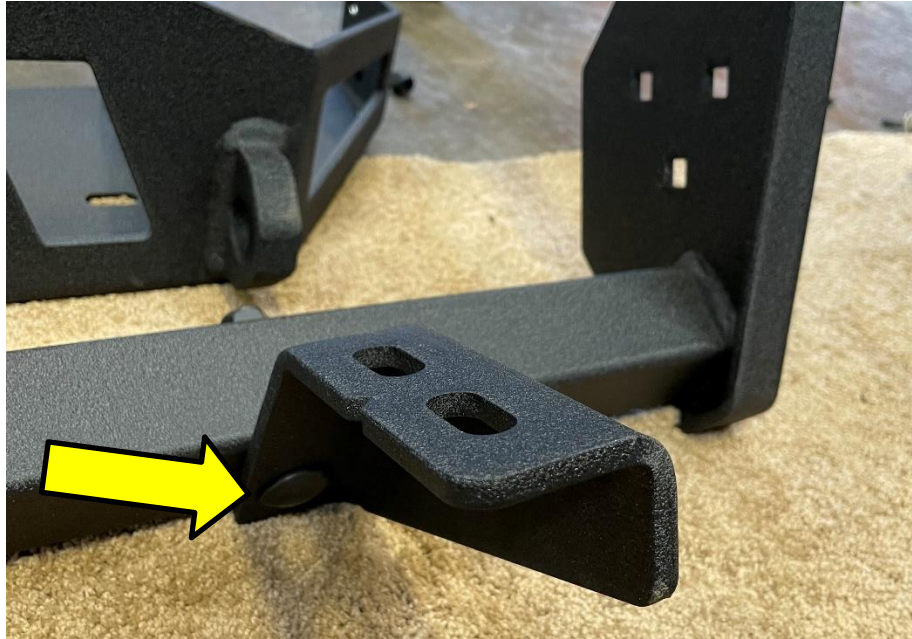
- ✓ A good friend
- ✓ Basic tool set
- ✓ Blue masking tape
- ✓ ¾" socket
- ✓ Ratchet extension

III. VEHICLE PREPARATION

1. Park vehicle on level surface.
2. Engage parking brake and disconnect battery.
3. Using blue masking tape, mask along the profile of your truck above the bumper. This will help protect your truck from any accidental scratches.

IV. INSTALLATION OF DEFENDER SERIES WINCH TRAY

1. Lay grille guard face up on a carpeted surface or a piece of cardboard. Using (2) 3" carriage head bolts, (2) flat washers and (2) nylock nuts supplied in hardware kit #216, install the left and right lower gussets to the square tubing in your grille guard. Both notches should face the inside of your grille guard. Do not fully tighten. *Note: Install carriage head bolt from bottom face of square tubing as shown below.*



2. Slide the grille guard into place from the back of the grille guard as shown below. Using (2) 1.5" carriage head bolts, (2) flat washers, and (2) nylock nuts supplied in hardware kit #216, fasten winch tray to the grille guard on either side of the winch tray using the lowest mounting points in the grille guard uprights as shown below. Do not fully tighten.



- Using (4) 1.5" carriage head bolts, (4) flat washers, and (4) nylock nuts supplied in hardware kit #216, fasten winch tray to the left and right gussets as shown below. Do not fully tighten. *Note: install carriage head bolts from bottom of each gussets. (Picture shows left side.)*



- Using install instructions provided with your defender series grille guard, install grille guard onto truck at this time. When mounting lower frame mounts to grille guard, be sure to slide frame mounts in between grille guard upright and winch tray as shown below.



- Following steps outlined in Defender Series grille guard install instructions, fully tighten all hardware using 3/4" socket. Install winch into winch tray using hardware supplied by winch manufacturer at this time.



**Congratulations! Your product installation is now complete.
Thank you for your purchase!**



Accessorize your new HammerHead Bumper!

PLEASE VISIT WWW.HAMMERHEADARMOR.COM FOR OUR FULL PRODUCT LINE OF TRUCK AND JEEP ACCESSORIES!

WINCHES:

- ✓ THIS BUMPER WILL ACCOMMODATE ALL WINCHES WITH THE STANDARD LARGE FRAME BOLT PATTERN (4.5" x 10") WITHIN THE FOLLOWING OVERALL DIMENSIONS: 26in.W x 11in.H x 7.5in.D
- ✓ THIS BUMPER WILL ACCOMMODATE WINCHES THAT MOUNT IN EITHER A FOOT FORWARD OR FOOT DOWN CONFIGURATION.

LED LIGHTS:

- ✓ ZILLA 3in. POD LIGHTS
 - PART #307-13-0445
- ✓ ZILLA 21.5in. DOUBLE ROW SPOT/FLOOD COMBO LIGHT BAR
 - PART #307-13-0449
- ✓ ZILLA 21.5in. SINGLE ROW SPOT/FLOOD COMBO LIGHT BAR
 - PART #307-13-0511
- ✓ ZILLA 49.5in. DOUBLE ROW SPOT/FLOOD COMBO LIGHT BAR
 - PART #307-13-0507



SHACKLES:

- ✓ POWDER COATED 3/4" SHACKLE
 - PART #600-56-0965