

HAMMERHEADARMOR.COM | 1-800-HHTOUGH



 HammerheadArmor  Hammerheadarmor  HammerheadOff-RoadArmor

2019-2023 RAM 2500-3500

ARMOR BAR

INSTALLATION INSTRUCTIONS



HAMMERHEADARMOR.COM | 1-800-HHTOUGH

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

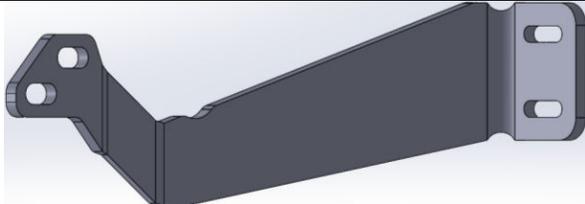
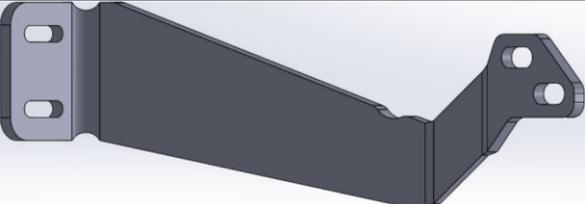
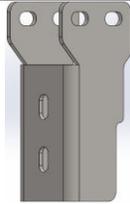
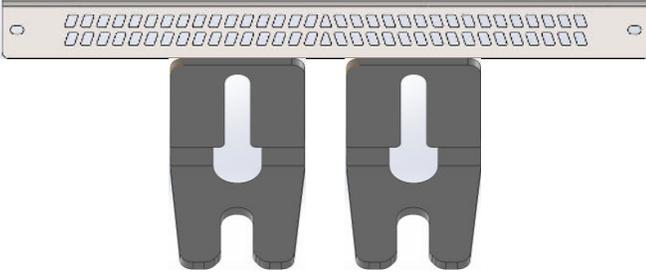


**WARNING: Cancer
and Reproductive Harm**

www.P65Warnings.ca.gov

I. PARTS LIST

Note: Brush guard configuration may differ.

Item 1	ARMOR BAR	QTY. 1	ITEM 2	RIGHT FRAME MOUNT WELDMENT	QTY. 1
					
ITEM 3	LEFT FRAME MOUNT WELDMENT	QTY. 1	ITEM 4	RIGHT LOWER MOUNT	QTY. 1
					
ITEM 5	LEFT LOWER MOUNT	QTY. 1	ITEM 6	DODGE 3500 FRAME MOUNT	QTY. 2
					
ITEM 7	CONE HOLDER	QTY. 1	ITEM 8	GO LIGHT MOUNT	QTY. 1
					
ITEM 9	LIGHT BAR COVER AND MOUNTS		ITEM 10	INSTALL KIT #322	
			<ul style="list-style-type: none"> ✓ HARDWARE KIT #57 (60K-56-0057) ✓ HARDWARE KIT #158 (60K-56-0158) ✓ HARDWARE KIT #208 (60K-56-0208) ✓ HARDWARE KIT #215 (60K-56-0215) ✓ HARDWARE KIT #232 (60K-56-0232) ✓ HARDWARE KIT #240 (60K-56-0240) ✓ SENSOR KIT 		

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

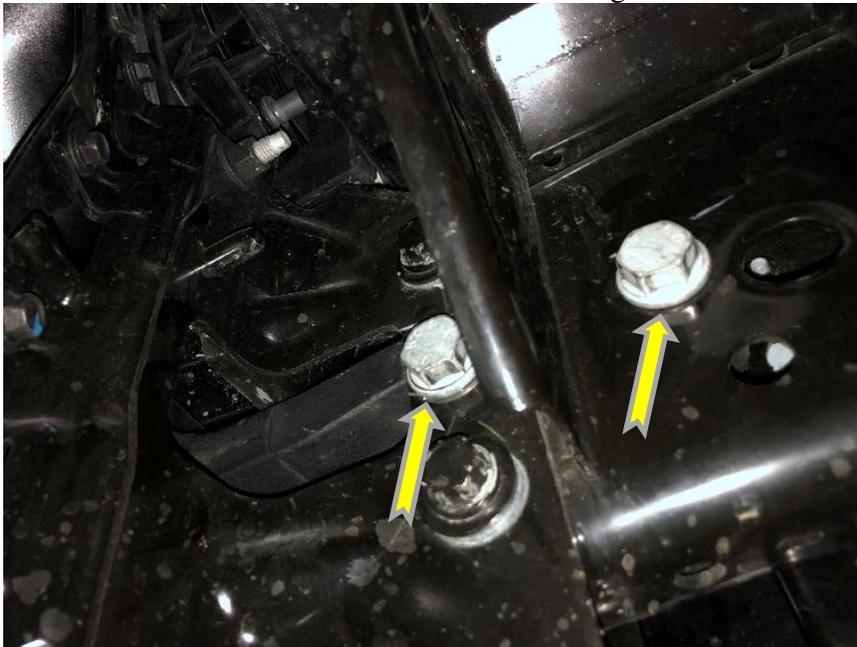
- ✓ A good friend
- ✓ Basic tool set
- ✓ Blue masking tape
- ✓ 10mm socket and wrench
- ✓ 18mm socket and wrench
- ✓ 24mm socket
- ✓ 9/16" socket or wrench
- ✓ 3/4" socket or wrench
- ✓ Ratchet extension
- ✓ Cutting tool of your choice

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.
4. If your truck is equipped with sensors, remove and note the OE location of the 4 middle sensors. Plug in the provided sensor extension harness to the factory harness and route the harness out the top of the bumper in between the bumper and the grille.

IV. REMOVAL OF OE BUMPER

1. Using a 24mm socket or wrench, remove the 2 bolts attaching the tow hook to the frame (both sides)



2. Remove the tow hooks by pulling straight out from the bumper. Set hardware aside to be re-used. Tow hooks will not be re-used.
3. Using an 18mm socket and wrench, loosen but do not remove the 2 bolts attaching the bumper to the frame (both sides).

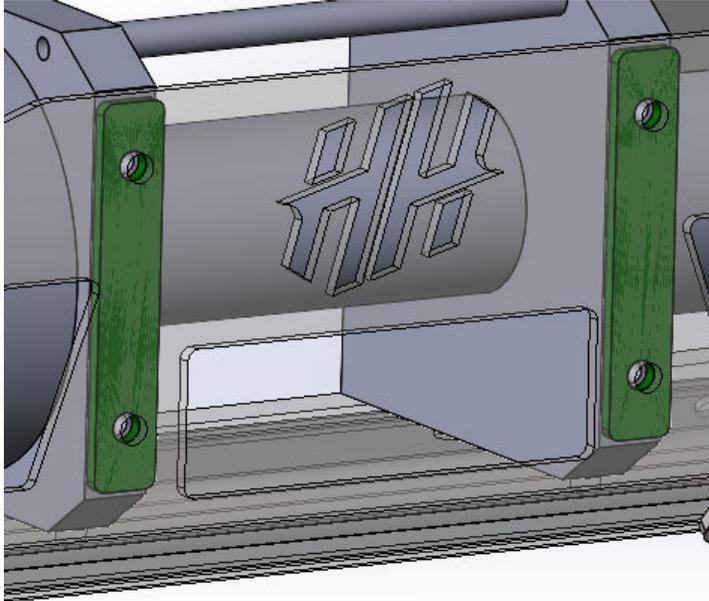


4. **Optional:** Using a 10mm socket or wrench, remove the nuts attaching the plastic lower bumper spoiler to the bumper. If you would like to keep your lower bumper spoiler, move on to the next step.
5. Locate the push clip on the bumper spoiler directly under the bumper mount. Make a mark on either side of the clip approximately $\frac{1}{2}$ ". Measure Trim along this mark with your cutting tool of choice 4" to allow the lower mounts to pass through.

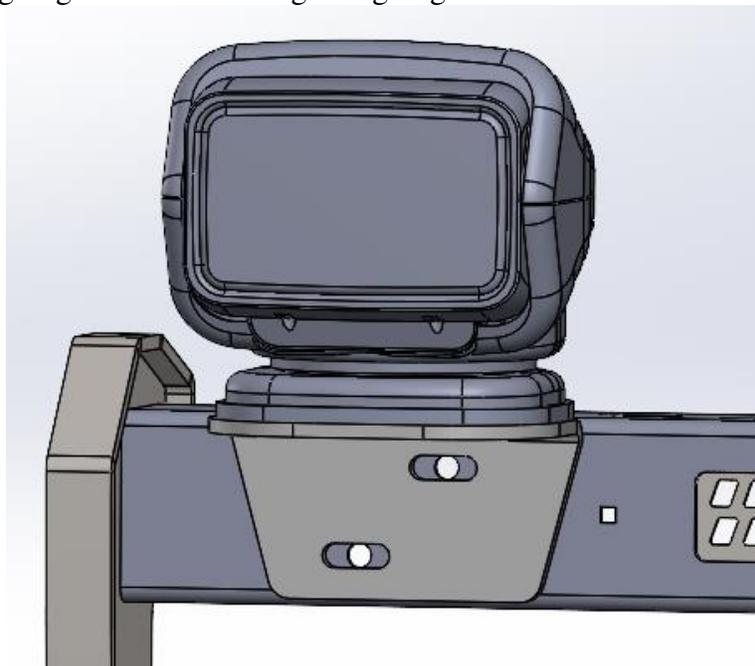


V. INSTALLATION OF HAMMERHEAD ARMOR BAR

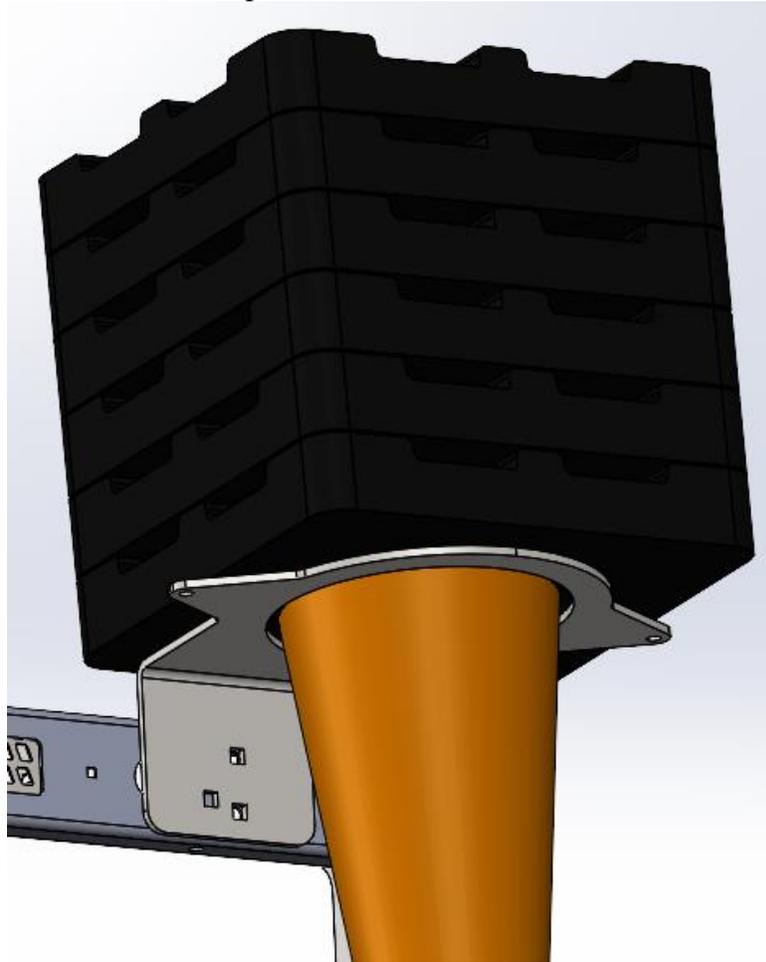
1. If installing winch tray (600-56-1049), do so before installing armor bar to truck. Refer to the winch tray installation instructions for further details. *Note – if installing select 18k winches, (2) winch tray spacers are included in kit to be installed on an as-needed basis as pictured below.*



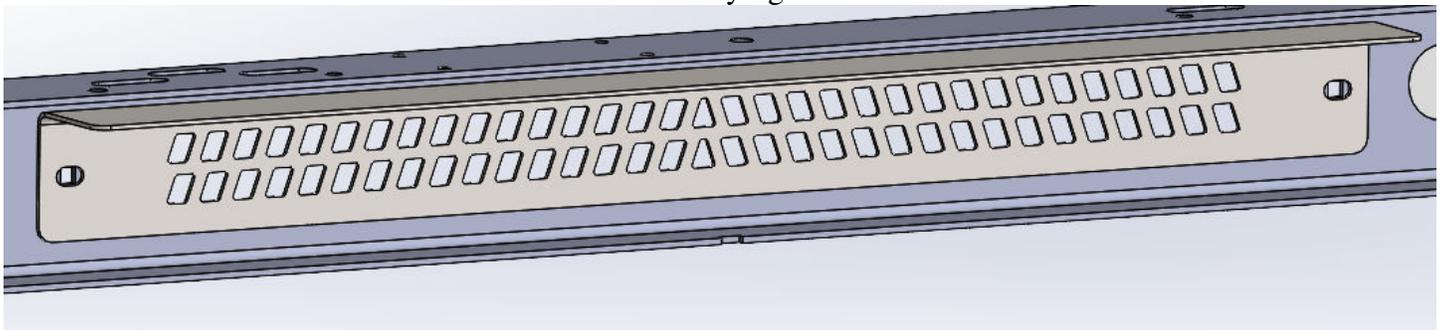
2. Using a 9/16” socket or wrench and hardware kit #232 from install kit #322, install go light mount to the front of armor bar as pictured below. Using hardware from GOLIGHT packaging, find the bolt pattern that matches your go light to secure the light to go light mount.



- Using the same tools and hardware from step 2, install the cone holder to the front of the armor bar as pictured below. Cone holder is dual drilled for either a vertical or angled cone position. Eyelets are integrated in cone holder to strap cones to cone holder.



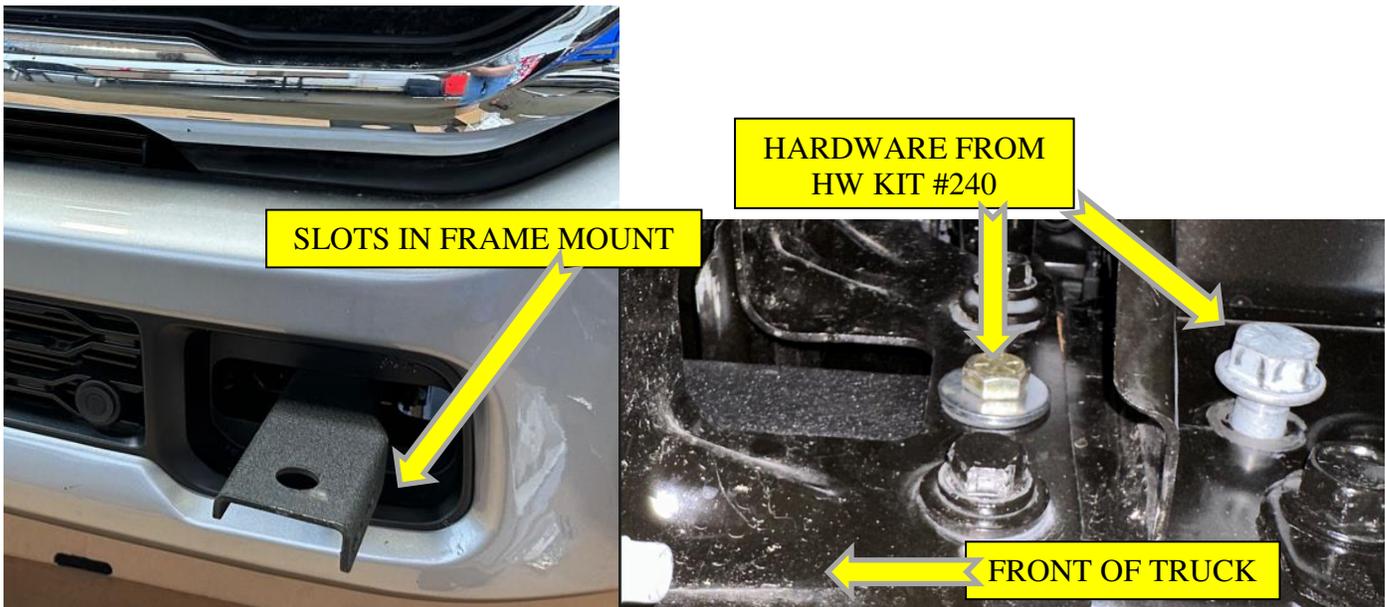
- If installing a 20" single row light bar, do so at this time using HH light bar mounts and hardware provided by lighting manufacturer. To install light bar cover instead, use a 3/8" socket or wrench and hardware kit #158 from install kit. Install cover with flange up as pictured below. Ensure cover is centered between the cutout in armor bar and fully tighten hardware.



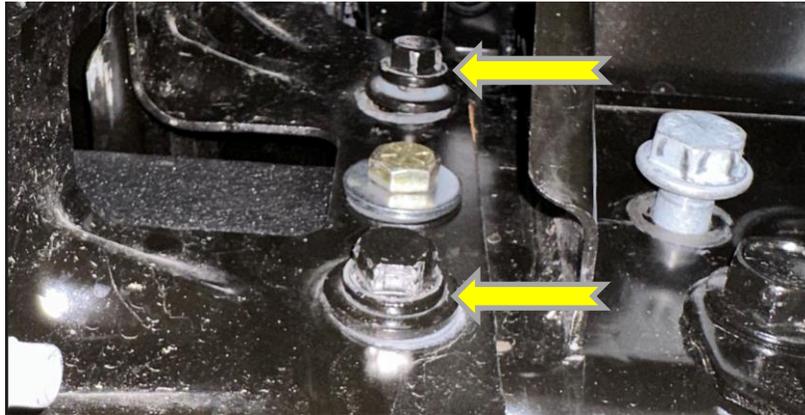
5. Install the provided grommets into the armor bar sensor holes. Using a dab of soap, lube the sensor and press it into the grille guard in the same location as it came out the bumper. Install the sensor clip as shown to hold each sensor in.



6. Slide the left frame mount weldment (*item 3*) through the front of the bumper as pictured below. The slots should face the outside of truck. Secure the frame mount weldment to the frame of the truck using 5/8" hardware from hardware kit #240 as shown below. Do not fully tighten. Repeat for other side.



7. Secure bumper to the truck frame using an 18mm socket and wrench and OE hardware from removal step #3.



8. Using a hoist or a few friends, attach armor bar to frame mounts using (4) carriage head bolts, flat washers, and cap nuts from hardware kit #208 as shown below. Start all bolts before aligning bumper.



6. Slide lower mounts into place through the cuts in the spoiler. Using (4) 3/8 bolts, (8) washers, and (4) nylock nuts from hardware kit #215, bolt lower mounts to the truck. Use (4) carriage head bolts, washers, and nylock nuts from hardware kit #208 to fasten lower mounts to the grille guard. The mounts should sit to the inside of the grille guard.
7. Plug the sensor extension harnesses into the sensors if applicable.
8. Align the armor bar to the truck and tighten all hardware to the suggested torques listed above. Fully tighten armor bar bolts with 3/4" socket. Fully tighten frame mount bolts as well at this time using tools listed in previous steps.



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