



# **INSTALL INSTRUCTIONS**

## **SPARTAN REAR BUMPER**

**Product : 3191XR**

**Application : 2019+ GMC & CHEVY 1500**

## I WARNING

Read the instructions completely before beginning installation. Before tightening bolts, drilling or cutting where required, check to make sure there are no obstructions such as brake, fuel or electrical lines which may be damaged. Also keep in mind this is an after-market product and MAY require minor shimming and/or trimming, reaming, etc. for proper fit. Road Armor is not responsible for any damages to vehicle.

## i IMPORTANT NOTICE

- Be sure to inspect and test fit your product to ensure proper fitment before having it coated, painted, bed lined, etc.
- Road Armor will not be responsible for the cost of coating your unit if any problems with fit or finish are not noted and addressed beforehand.

## SAFETY FIRST!

- FOLLOW ALL INSTRUCTIONS, YOUR SAFETY AND THE SAFETY OF OTHERS IS MOST IMPORTANT.
- WEAR APPROPRIATE EYE PROTECTION AND EXERCISE CAUTION WHEN DRILLING / CUTTING

## REQUIRED TOOLS

Metric/SAE Socket Set/ Wrenches    Mechanical Lift or one other person    Wiring tools

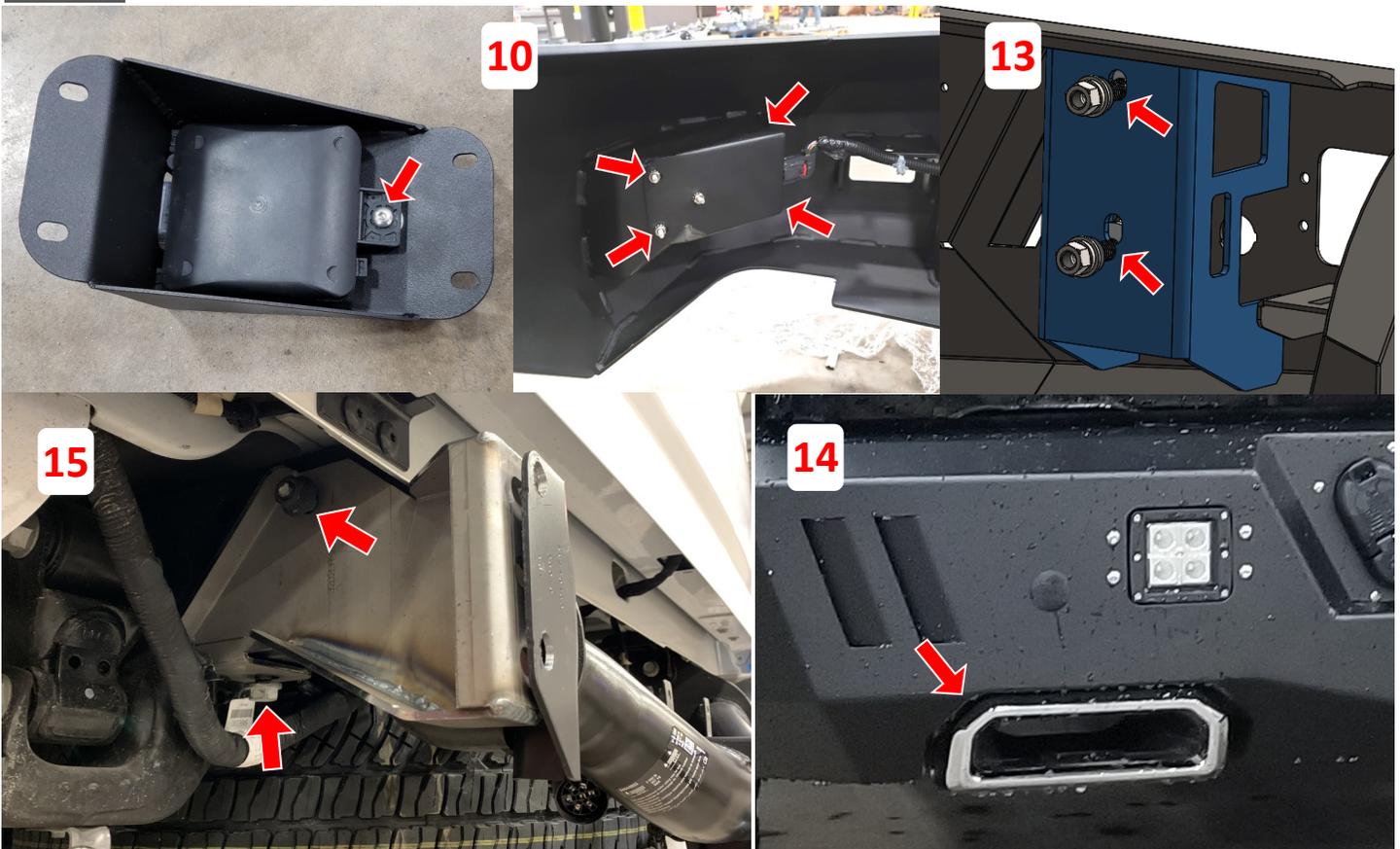
## INCLUDED HARDWARE

16	1/4"-20 x 3/4" ASTM F879 Hex Drive Grade 18-8 Stainless Steel Button Socket Cap Screw	4	1" Plug
16	1/4"-20 Zinc Finish Steel with External Tooth Lock washer K-Lock Nut	4	1.5" Single Bolt Tab (ZINC)
4	1/4" (14) Screw Size License Plate Nut White Nylon	4	1/2" x 1.062" OD Thru-Hardened Yellow Zinc Finish Steel
4	M6 x 16mm Phillips Hex Washer Head Tap Screw	4	1/2"-13 Yellow Zinc Finish Grade 8 Finished Hex Nut
4	#8-32 x 3/4" ASTM F879 Hex Drive Grade 18-8 Stainless Steel Flat Socket Cap Screw	4	1/2" Yellow Zinc Finish High Alloy Medium Split Lock Washer
4	#8-32 Zinc Finish Steel with External Tooth Lockwasher K-Lock Nut	4	1/2" Bolt 15/16" O.D. Zinc Pushnut Bolt Retainer
6	#10-24 x 3/4" ASTM F879 Hex Drive Grade 18-8 Stainless		
6	#10-24 Zinc Finish Steel with External Tooth Lockwasher K-Lock Nut		

- 1 Unplug all wire harnesses including sensor, keyless entry, trailer plug and camera.
- 2 Remove the two bolts from behind the license plate using 13mm socket wrench.
- 3 Remove the 2 bolts on the backside of each bumper corner using 18mm socket wrench.
- 4 Remove the outside support bracket bolt on the driver and passenger sides bumper using 15mm socket wrench. Continue by removing rear bumper.
- 5 Using support bracket as template, drill out to 9/16" hole to match support bracket slots.



- 6 Removing support bracket from frame bolt with 21mm socket wrench to remove nut.
- 7 Disassemble rear internal bumper brackets followed by removing blinds-pot and back-up sensors, etc... from rear bumper
- NOTE** To remove the four sensors: Carefully spread the housing clips and push the sensor out of the housing. With the sensor removed, press the tabs in and push the housing out of the bumper .
- 8 Remove the 21mm bolts from the bottom of the frame.
- 9 Reinstall the keyless entry sensor to the factory center bumper support bracket using zip ties. The sensors can now be plugged in.
- 10 If equipped, using #10 hardware place blind-spot sensor into sensor bracket and install into each side of bumper corner pods using 1/4" hardware as shown below.
- 11 Install all park sensors and harness into bumper as they were on the OEM bumper.
- 12 Install license plate lights using #8 hardware provided.
- 13 Install 2 - 1/2" bolt tabs using retainer washers into each bumper "weld-in" bracket..
- 14 Install each exhaust tips using OE hardware. (Tab may need to be bent slightly to install evenly)
- 15 Install bumper support bracket using OEM hitch bolt and nut using 21mm socket wrench.



- 16 Install bumper onto hitch and support brackets, align and secure bumper using 1/2" hardware.
- 17 Reconnect all harnesses and ensure proper operations of sensors and lighting.
- 18 Wire both license plate lights using #8 hardware and splice into factory light harness.
- 19 Install all accessory lights at this time.

