

# INSTALLATION GUIDE



## SAFETY

### THE SAFETY OF YOU AND OTHERS IS VERY IMPORTANT TO US!

In order to minimize this risk and make an informed decision about safety, it is important that you carefully read and follow the installation instructions we have provided.

We urge you to use your own good judgment and allow plenty of time for install.

## HAZARD CHECKLIST

- Always wear personal protective equipment (PPE) such as: protective eye wear, gloves, close toed shoes, etc.
- We recommend that you use a certified mechanic or shop for professional installation.
- Always set emergency brakes on vehicle and use tire blocks to ensure vehicle stabilization.
- Use caution when lifting, we recommend the use of equipment to help lift bumpers into place.
- Use caution when using power tools such as air ratchet, etc.
- Take caution when installing wiring.
- Perform regular inspections of hardware, bolts, brackets, etc.
- Rigid light brackets are specifically designed to fit Rigid lights, we do not guarantee off brand fitment.
- Our winch mount is designed for Warn and Superwinch products. We do not guarantee off brand fitment.

## USE & RISK

Bodyguard Products LLC is not responsible for damage to our products, or other subsequent damage that might occur, as a result of misuse or improper installation. While we do manufacture products that appear stronger than factory parts, our products should not be viewed or relied upon as life-saving devices in the event of a collision or rollover. We make no claims relating to airbag compatibility, crashworthiness, or sturdiness. It is the customer's responsibility to check with the vehicle manufacturer or auto dealer regarding airbag compatibility and automobile manufacturer's warranty before installing our products.

# PREPARATION

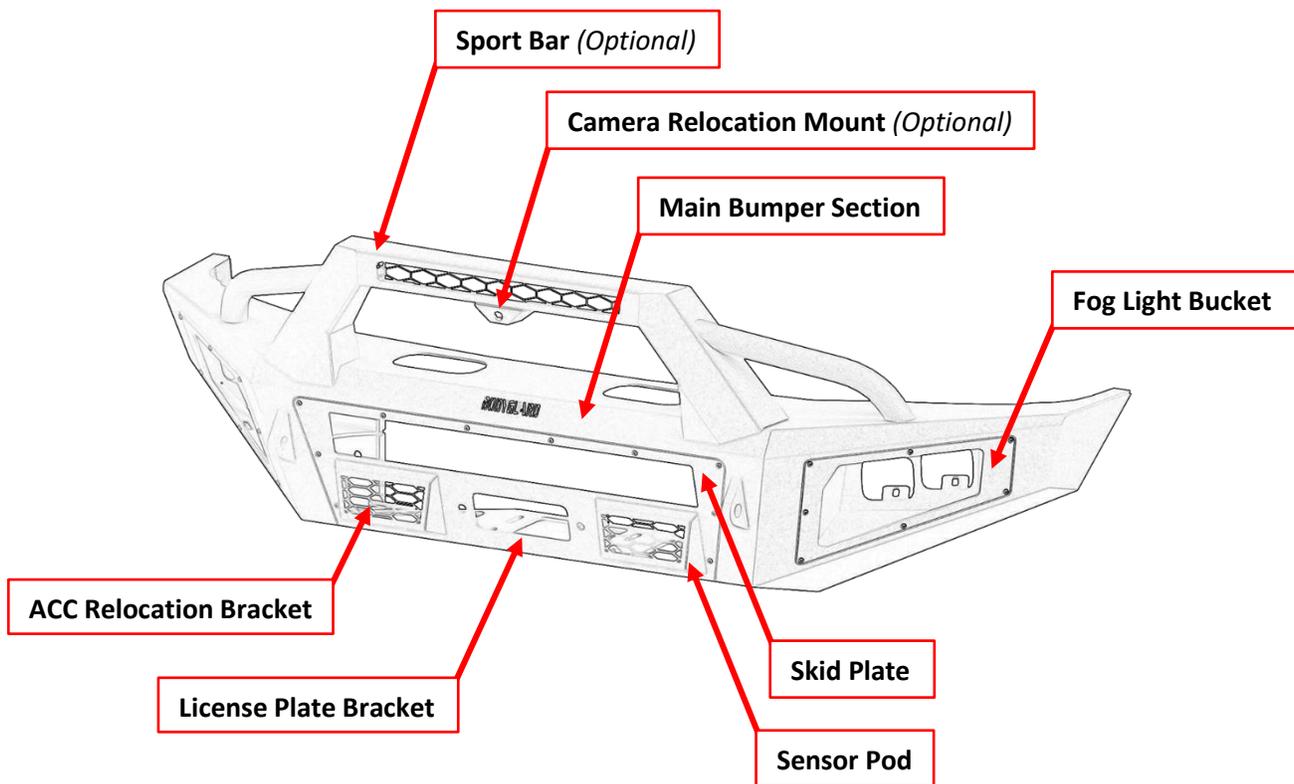
- Ensure personal safety by checking for hazards and identifying risks.
- Check for correct hardware.
- Check for tools needed.
- Use either foam or tape on fenders to prevent scratches to the truck when installing your bumper.
- Disconnect the battery.
- Please allow approximately 3-4 hours for installation.

## TOOLS

- 1** - Jack
- 2** - Safety Stands
- 2** - Wheel Chocks
- 1** - Wire Cutters & Wire Crimpers
- 1** - Small Pry Tool
- 1** - Tape measure
- 1** - Pliers
- 1** - Metric Wrench/Sockets – 8mm, 10mm, 13mm, 14mm, 15mm, 18mm, 19mm, allen wrenches or sockets
- 1** - Level

## BUMPER COMPONENTS

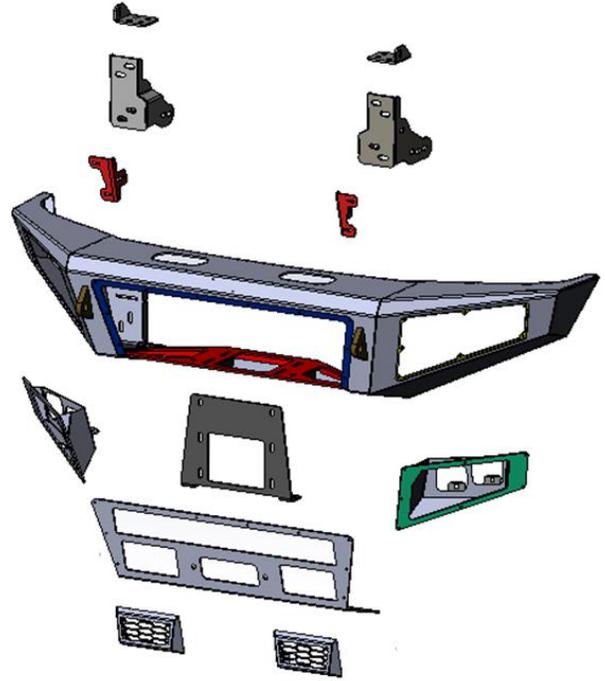
- 1** - Main Bumper Section
- 1** - *(Optional: Sport Bar or Grill Guard)*
- 2** - Fog Light Buckets
- 1** - Skid Plate
- 1** - License Plate Bracket
- 1** - ACC Relocation Bracket
- 1** - ACC Sensor Pod
- 1** - Light Bar Mount
- 1** - Camera Relocation Mount *(Optional)*



# HARDWARE

Included with this product should be HARDWARE KITS:  
 A2-HK-FCS, A2-HK-FFL, A2-HK-FLP, A2-HK-WMK, A2-HK-FFH11

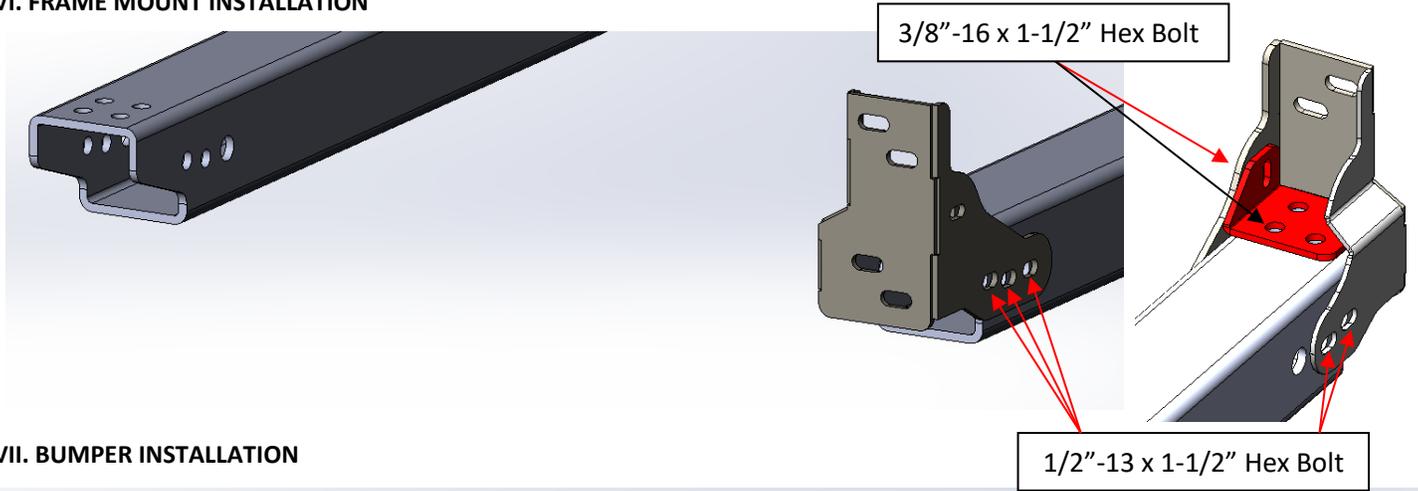
<b>A2-HK-FCS</b>	<b>A2 Front Center Section:</b>	<b>Qty</b>
	1/4-20 x 5/8 Long, Stainless Steel SBHCS	17
	1/4-20 Hex Grade 5 Serrated Flange Nut, Stainless Steel	17
<b>A2-HK-FFL</b>	<b>A2 Front Fog Light</b>	<b>Qty</b>
	1/4-20 x 5/8 Long, Stainless Steel SBHCS	14
	1/4-20 Hex Grade 5 Serrated Flange Nut, Stainless Steel	14
<b>A2-HK-FLP</b>	<b>A2 Front License Plate</b>	<b>Qty</b>
	M8-1.25 x 25mm Long Grade 8.8 Hex Bolt	2
	M8 Zinc Flat Washer	4
	M8x1.25 Zinc Grade 8.8 Serrated Hex Flange Nut	2
	Plastic License Plate Nuts	4
	#14 x 5/8" Zinc License Plate Screw	4
<b>A2-HK-WMK</b>	<b>A2 Front Winch Mount</b>	<b>Qty</b>
	3/8"-16 x 1" Yellow Zinc Grade 8 Hex Bolt	4
	3/8" Yellow Zinc Grade 8 Flat Washer	8
	3/8"-16 Zinc Grade 8 Serrated Hex Flange Nut	4



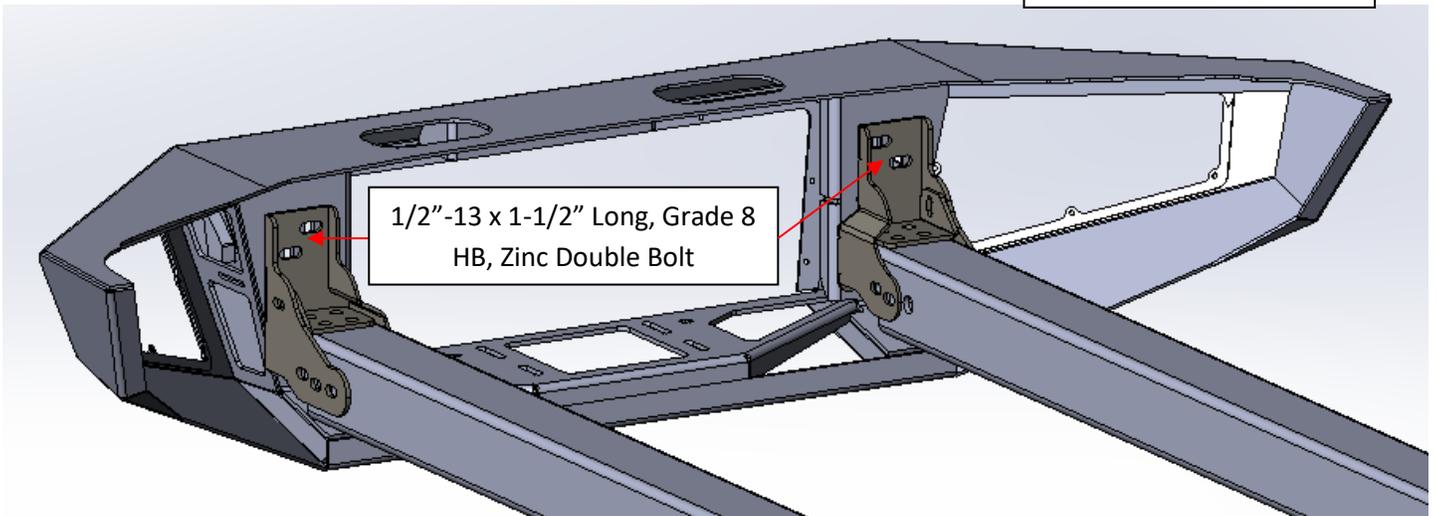
<b>A2-HK-FFH17</b>	<b>A2 Front Mount Kit 2017+ Ford SD</b>	<b>Qty</b>
	3/8"-16 x 1-1/2" Long, Grade 8 HB	10
	3/8" Yellow Zinc Grade 8 Flat Washer	20
	3/8"-16 Zinc Grade 8 Serrated Hex Flange Nut	10
	1/2-13 x 1-1/2 Long, Grade 8 HB Zinc-Yellow	8
	1/2" Washer, Grade 8 Zinc-Yellow	26
	1/2"-13 Grade 8 Steel Serrated Flange Nut Zinc	18
	1/4-20 x 3/4 Long, Stainless Steel SBHCS	8
	1/4-20 (.093-.126: Panel Range) Zinc Electroplate Spring Steel Cage Nut	8
	1/2"-13 x 1-1/2" Long, Grade 8 HB, Zinc Double Bolt (1.75")	4
	1/2"-13 x 1-1/2" Zinc Tear Drop Bolt (Hex)	2

Note: F250/F350 Bumper is shown in this Install Instruction. F450/F550 will be installed in the same manner.

## VI. FRAME MOUNT INSTALLATION

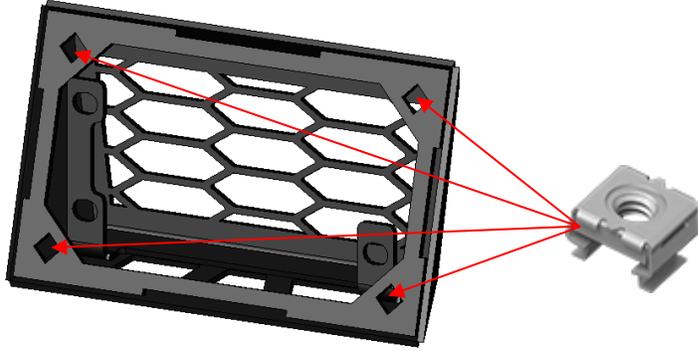


## VII. BUMPER INSTALLATION



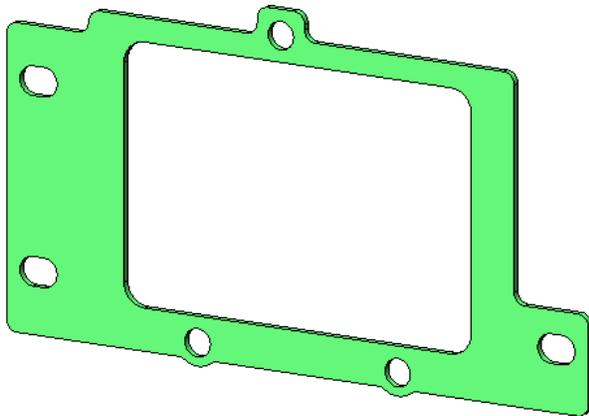
**VIII. ACC Install**

Some vehicles are equipped with an Adaptive Cruise Control unit (ACC). The following steps will show you how to install the unit into your bumper.

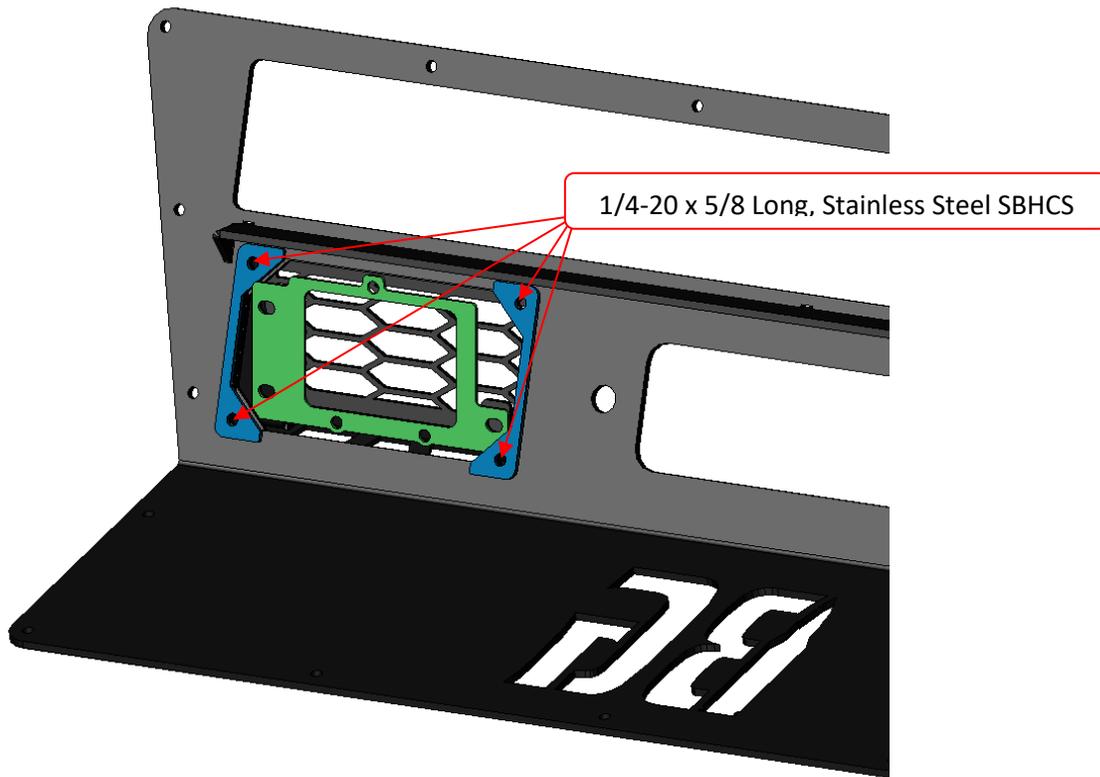


1. Install 4x **(1/4-20 Zinc Electroplate Spring Steel Cage Nut)** onto each Sensor Pod.

1. We send an additional bracket shown in green. This will be used as an adapter bracket for the smaller version of the ACC module.



Large ACC Module Install	Small ACC Module Install
<p>5/16"-18 x 1" Zinc Grade 5 Hex Bolt</p>	<p>5/16"-18 x 1" Zinc Grade 5 Hex Bolt</p> <p>1/4"-20 x 5/8", SBHCS</p>
<p>1. Install 3x <b>(5/16"-18 x 1" Zinc Grade 5 Hex Bolt)</b> Securing the Large ACC unit to the bracket.</p>	<p>1. Install 3x <b>(5/16"-18 x 1" Zinc Grade 5 Hex Bolt)</b> Securing the adapter bracket to the large ACC unit bracket.</p> <p>2. Install 3x <b>(1/4-20 x 5/8 Long, Stainless Steel SBHCS)</b> Securing the Small ACC unit to the adapter bracket.</p>



2. Install 4x (1/4-20 x 5/8 Long, Stainless Steel SBHCS) Securing the bracket to the skid plate.
  3. Next Connect the ACC unit back to the factory wiring harness.
- Note: It may take up to 50 miles for the ACC unit to calibrate itself.**

#### IX. WINCH MOUNT BRACKET INSTALLATION (for FOOT FORWARD winches)



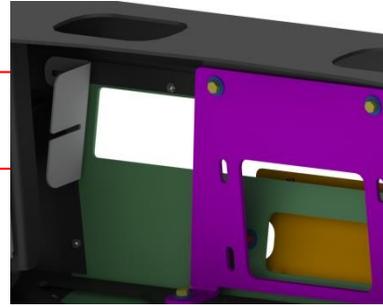
NOTE: Foot Down only winch installs will not require the use of this bracket. Most small frame winches will allow light bar installation.

## X. FOG LIGHT INSTALLATION



Use **A2-HK-FFL** to install Fog Light Brackets.

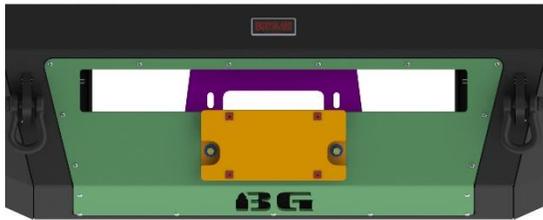
## XII. LIGHT BAR BRACKET INSTALLATION – (optional)



Use 1/4" hardware from **A2-HK-FCS** to secure Light Bar Bracket.

Use **A2-HK-FCS** to install Center Section.

## XI. LICENSE PLATE BRACKET INSTALLATION (optional)



Use **A2-HK-FLP** to install License Plate Bracket.

**NOTE: IF A WINCH IS INSTALLED WITH FAIRLEAD, AND A LICENSE PLATE IS REQUIRED; AN AFTERMARKET FAIRLEAD MOUNTED LICENSE PLATE BRACKET WILL BE NEEDED.**

- This bumper is designed to mount either a light bar OR winch.
- If mounting both inside the bumper, it will require using a Foot Downward Winch.
- If using a Foot Forward Winch, you will NOT have room to mount a light bar.

## FINISHING UP

- Install shackles.
- Confirm that all hardware is tightened and everything is secure.
- Secure wiring harnesses for lights and sensors.
- Reconnect the battery.
- Test all lighting and wiring before using vehicle (fog lights, sensors, etc.).

## MAINTENANCE

- Periodically check that all hardware is tightened and that all wiring and connections are secure.
- Periodically check that all sensor plugs are secure.
- Routinely wash bumper to maintain the powder coat finish.

## FEEDBACK

We'd love to hear from you!

Please send your pictures, testimonials, comments, or suggestions to us by email at [info@bodyguardbumpers.com](mailto:info@bodyguardbumpers.com). We frequently use customer pictures for brochures and marketing materials, and we always welcome customer feedback to ensure quality improvements within our company. Thanks for your purchase; we appreciate your business very much!

Where **STRENGTH** Meets *Style!*™



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