

INSTALLATION GUIDE



SAFETY

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

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

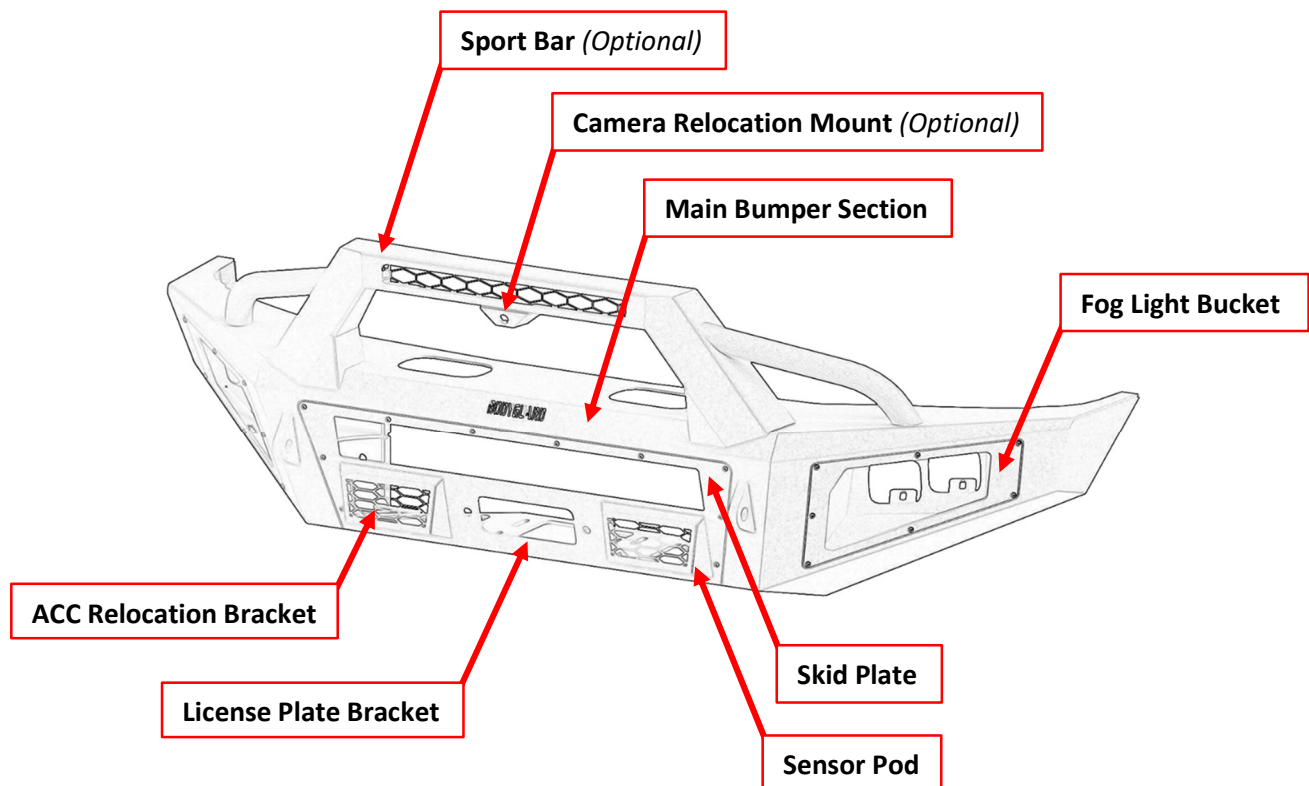
- Ensure personal safety by checking for hazards and identifying risks.
- Check for correct hardware.
- Check for tools needed.
- Use either foam or tape on fenders to prevent scratches to the truck when installing your bumper.
- Disconnect the battery.
- Please allow approximately 3-4 hours for installation.

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)*

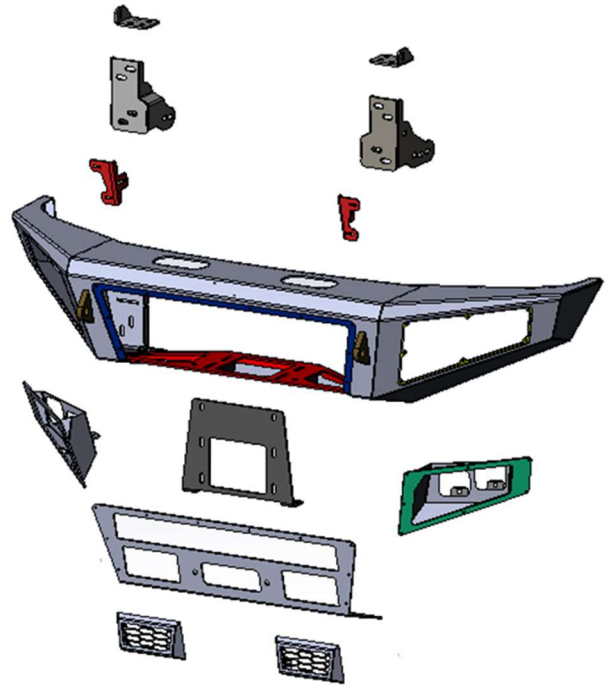


HARDWARE

Included with this product should be HARDWARE KITS:

A2-HK-FCS, A2-HK-FFL, A2-HK-FLP, A2-HK-WMK, A2-HK-FFH11

A2-HK-FCS	A2 Front Center Section:	Qty
	1/4-20 x 5/8 Long, Stainless Steel SBHCS	17
	1/4-20 Hex Grade 5 Serrated Flange Nut, Stainless Steel	17
A2-HK-FFL	A2 Front Fog Light	Qty
	1/4-20 x 5/8 Long, Stainless Steel SBHCS	14
	1/4-20 Hex Grade 5 Serrated Flange Nut, Stainless Steel	14
A2-HK-FLP	A2 Front License Plate	Qty
	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
A2-HK-WMK	A2 Front Winch Mount	Qty
	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



A2-HK-FFH17	A2 Front Mount Kit 2017+ Ford SD	Qty
	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.

BUMPER REMOVAL

1. If equipped; disconnect the fog light wiring harness from behind the front bumper on the driver side.
2. If equipped; Remove the block heater plug from the bumper clip on the passenger side.



3. Remove the (2) bumper brace bolts from the driver and passenger side using the 15mm socket or wrench.
4. Locate the (2) tabs on the front bumper plastic bolt cover on the driver and passenger side, and press the tabs on the top to remove.



5. Support the front bumper before removing the bolts, and using an 18mm socket remove the (4) bolts in the front of the bumper on the driver and passenger side of the vehicle.
6. Remove the nut plate on the back side of the bumper mount when removing the front bolts.



7. Remove the front bumper from the vehicle.
8. Remove the (2) front frame brackets from the driver and passenger side using an 18mm wrench or socket.



CAMERA REMOVAL AND INSTALL *(For optional sport bar only)*

1. Using a pry tool, remove the (14) plastic clips and the plastic shroud will come off.



2. Remove the (8) 10mm bolts and remove the grill by pulling outward on it.

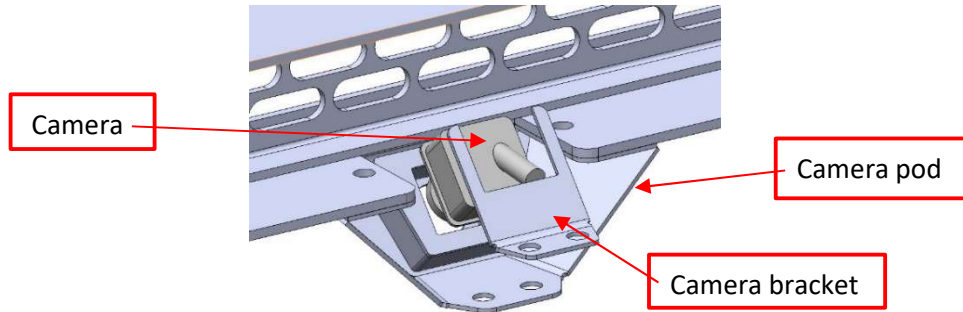


3. Remove the (2) E6 torx bolts and the retaining fixture, unplug and remove the camera.
4. Run the supplied harness down and toward the passenger side. Where it will go under the bumper top plate up through a cut hole in the uprights to the camera mount in the grill.
5. Install the camera into the new bumper and wait to plug in until the bumper installation is completed.

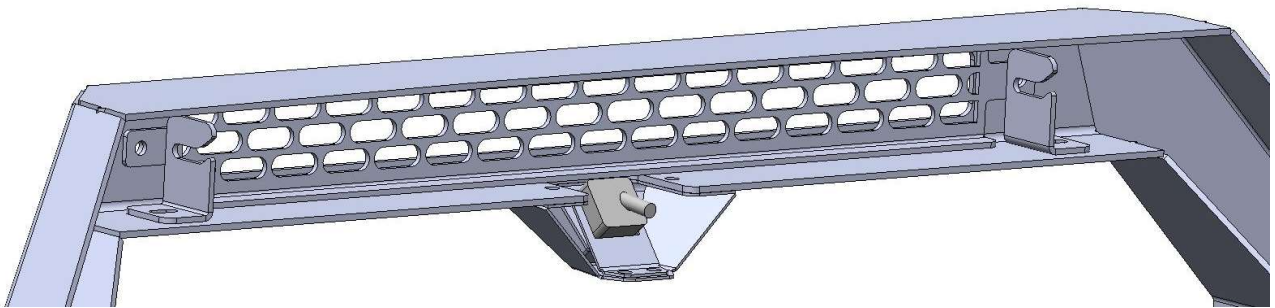


SPORT BAR CAMERA INSTALL(For optional sport bar only)

1. Install the camera pod to the sport bar using (2) 1/4"-20 cage nuts and (2) 1/4"-20 x 3/4" BHCS. Then install the camera into the pod and secure with the camera bracket using (2) 1/4"-20 BHCS and flange nuts.

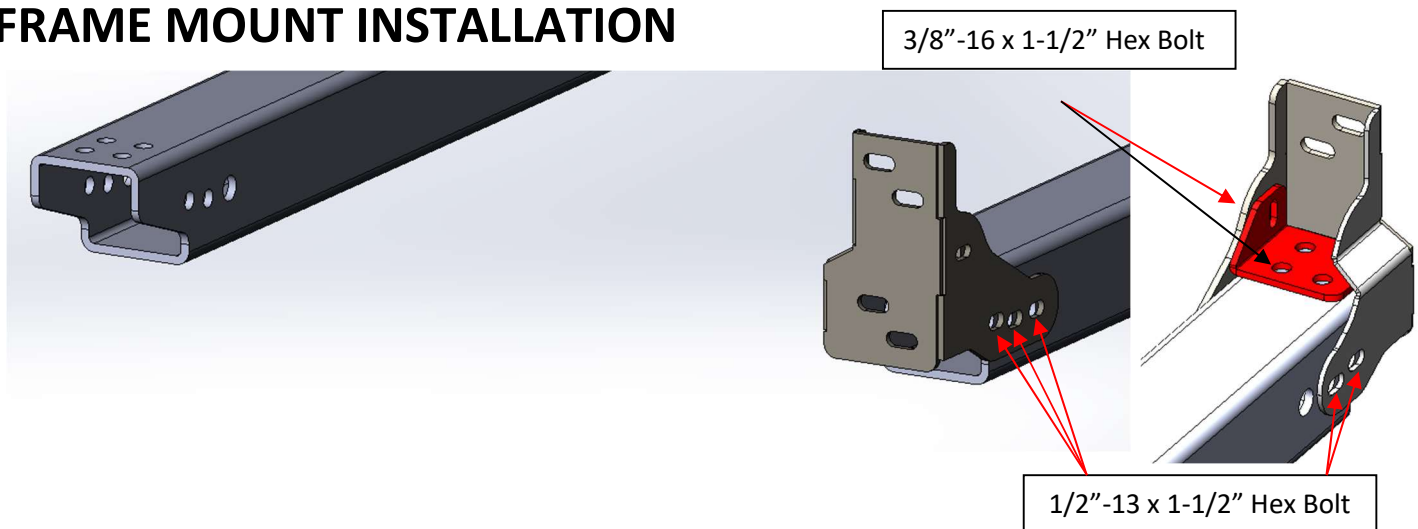


2. Then install the sport bar mesh using 2x 1/4"-20 x 3/4" BHCS and flange nuts. Then install your light bar using the light bar brackets if applicable.



NOTE: If front license plate is required, optional front license plate bracket will need to be purchased with this bumper.

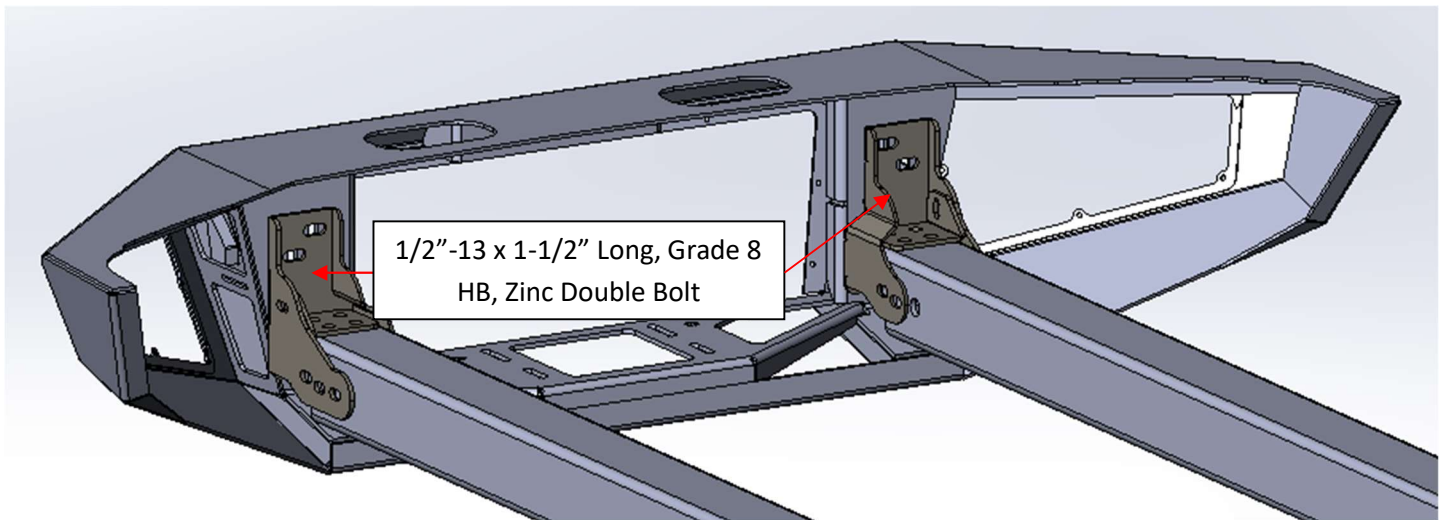
FRAME MOUNT INSTALLATION



BUMPER INSTALLATION

1. Attach the bumper with the 1/2" stainless hardware, leaving enough space to adjust the bumper as needed into position. Using a tape measure, adjust the bumper vertically and horizontally to the desired body gaps. Once the bumper is lined up, tighten all hardware for the bumper and the mounts. Using jack stands or an additional person to help support the bumper is recommended.
2. Now that the bumper is mounted and installed, wire in the lighting and plug in the front camera, and ACC module. Route and secure wiring as desired.

NOTE: The camera harness will go under the bumper top plate up through a cut hole in the uprights to the camera mount in the grill.

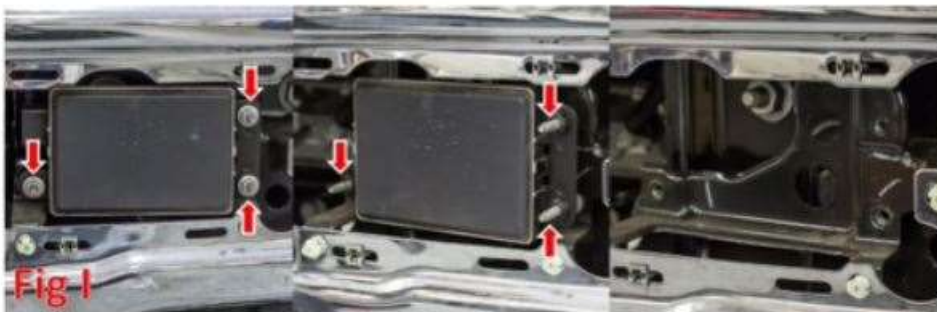


ADAPTIVE CRUISE CONTROL INSTALL

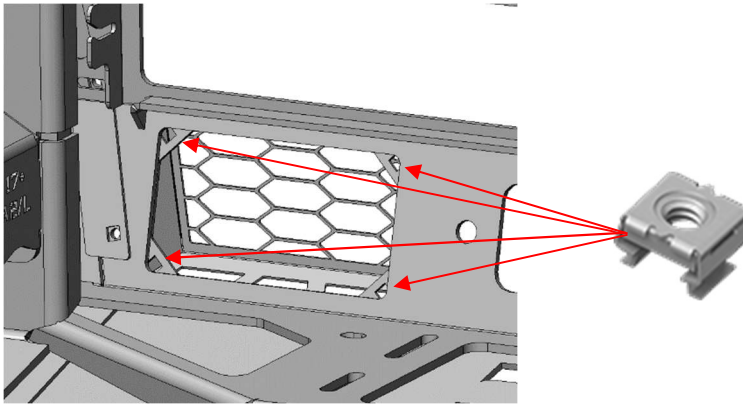
Some vehicles are equipped with an Adaptive Cruise Control unit (ACC). The following steps will show you how to install the unit into your bumper.

NOTE: If the battery is not disconnected prior to removal and installation, it is possible that after installation, the ACC module will have to be recalibrated.

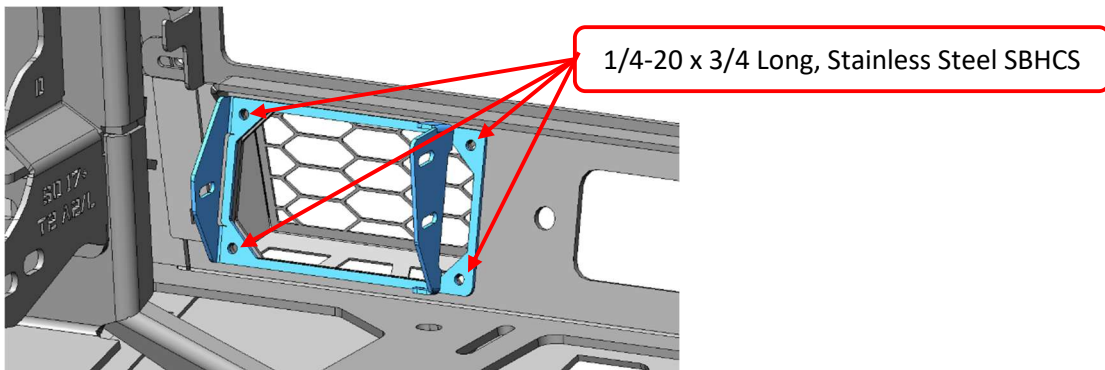
1. Remove the ACC factory module from the driver side of the factory bumper. Remove the mounting nuts (3) with an 11mm socket, unplug the module connector, remove the module mounting studs with an E6 External Torx socket (3), then remove the module from the vehicle. (Fig. 1)



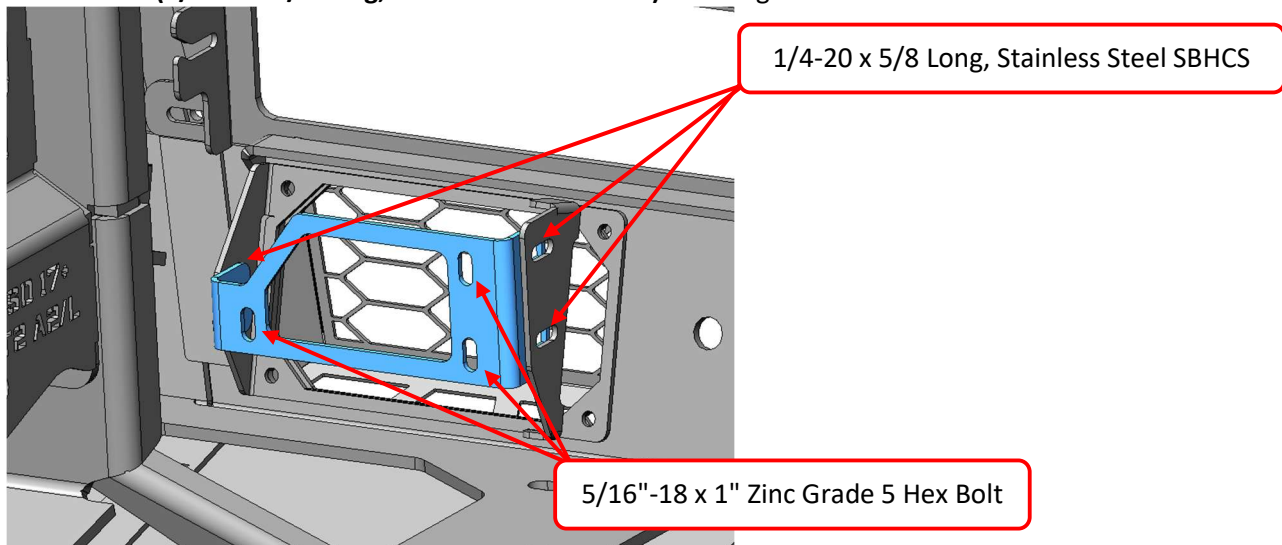
2. Install 4x **(1/4-20 Zinc Electroplate Spring Steel Cage Nut)** onto each Sensor Pod.



3. Now attach the ACC Mount to the sensor pod using the 1/4" hardware included.



4. Install 3x **(5/16"-18 x 1" Zinc Grade 5 Hex Bolt)** Securing the ACC bracket to the OEM ACC module.
5. Install 3x **(1/4-20 x 5/8 Long, Stainless Steel SBHCS)** Securing the ACC bracket to the ACC mount.



6. 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.

WINCH MOUNT BRACKET INSTALLATION (*for FOOT FORWARD winches*)



Use **A2-HK-WMK** to install Winch Mount Bracket.

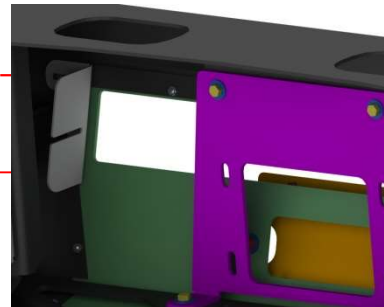
NOTE: Foot Down only winch installs will not require the use of this bracket. Most small frame winches will allow light bar installation.

FOG LIGHT INSTALLATION



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

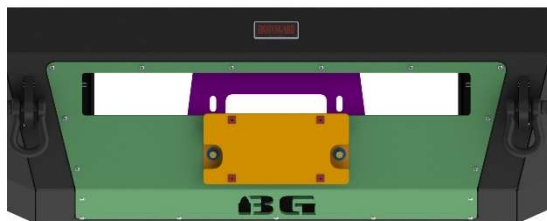
LIGHT BAR BRACKET INSTALLATION – (optional)



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

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

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.
- Test all lighting and wiring before using vehicle (fog lights, sensors, etc.).
- Reconnect the battery.

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. 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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