



INSTALLATION MANUAL
ADAPTIVE CRUISE CONTROL RELOCATION BRACKET
PRODUCT NUMBER: M5350
APPLICATION: 2019+ FORD RANGER



IMPORTANT SAFETY GUIDE | Your safety and the safety of others is very important.

In order to help you make informed decisions about safety, we have provided the following warnings, safety precautions, installation instructions, and other important information to alert you to potential hazards that could hurt you or others.

Please do a job safety analysis before each task to identify potential hazards for your situation and remove/protect against them. Use own good judgment and take your time.

Check packaged materials immediately upon arrival to ensure that all listed parts are included and undamaged.

Read and understand all warnings, safety precautions, and instructions before installing this product.

SENSORS FIELD OF VIEW MAY BE ALTERED WITH USE OF THE REPLACEMENT BUMPER.

WARNINGS

- Failure to observe the following warnings and instructions provided in this manual could lead to severe injury and/or death.
- For professional installation only. Careless installation and/or operation can result in serious injury, death, and/or equipment damage. All liability for installation and use rests with the user or consumer.
- Fab Fours, Inc. only approves installing this product according to these written instructions with the hardware provided. Failure to install according to these instructions will invalidate the warranty. This includes, but is not limited to, using alternative installation methods, hardware, or materials.
- This product is for off road use only.

SAFETY PRECAUTIONS

- Always remove jewelry and wear eye protection.
- Always use extreme caution when jacking up a vehicle for work. Set emergency brake and use tire blocks. Locate and use the vehicle manufacturers designated lifting points. Use jack stands.
- Always use appropriate and adequate care in lifting components into place.
- Always ensure components will remain secure during installation and operation.
- Always wear safety glasses when installing this kit. A drilling operation will cause flying metal chips. Flying chips can cause serious eye injury.
- Always use extreme caution when drilling a vehicle. Always disconnect power before welding. Thoroughly inspect the area to be drilled (on both sides of material when possible) prior to drilling, and relocate any objects that may be damaged.
- Always use extreme caution when welding a vehicle. Thoroughly inspect the area to be welded (on both sides of material when possible) prior to welding, and relocate any objects that may be a fire hazard. When welding in a cab, make sure the interior surfaces are covered (e.g., welding blanket) and a fire extinguisher is at hand.
- Always use extreme caution when cutting and trimming during fitting.
- Always tighten all nuts and bolts securely per installation instructions.
- Always route electrical cables carefully. Avoid moving parts, components that become hot, and rough or sharp edges.
- Always insulate and protect all exposed wiring and electrical terminals.
- Perform regular inspections and maintenance on mounts and hardware.

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A MESSAGE FROM THE OWNER



Fab Fours' was born out of a passion for customizing vehicles and a love of the outdoors. Our engineering team uses the latest 3D design software to turn new product ideas into reality. In our factory, designs come to life with the combination of cutting edge technology for metal cutting and forming and an American workforce that puts its' heart and pride into every product.

From design and manufacturing, to quality and delivery, Fab Fours' mission is to be the market leader for steel truck and jeep accessories. We make sure a quality product is delivered on time, more than expected, better than expected to our customers.

Enjoy your new Fab Fours product. Welcome to the family!

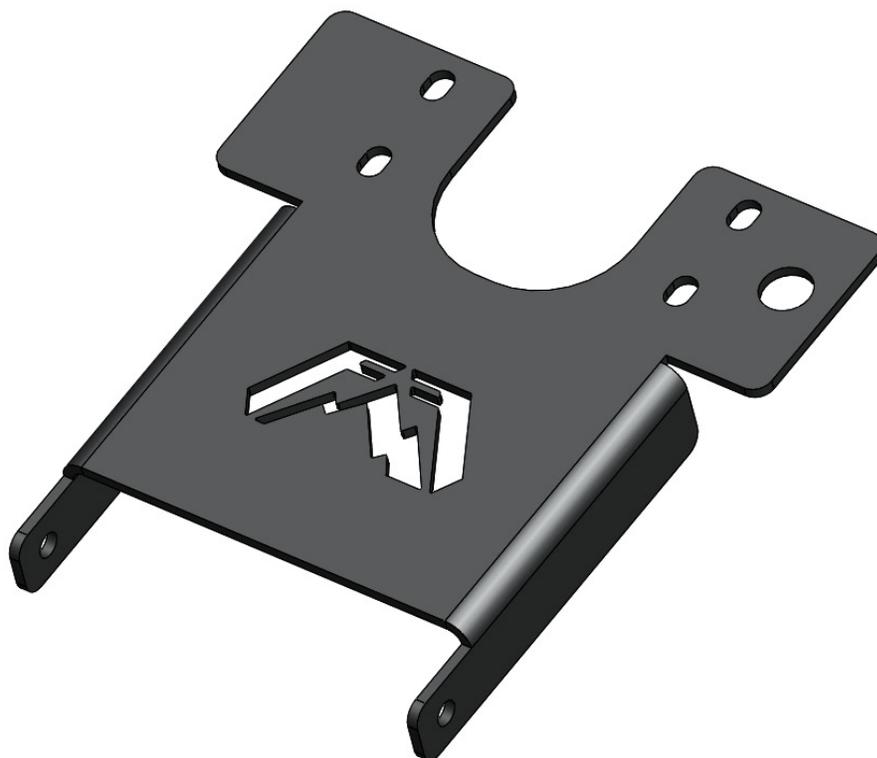
Ereg Higgs

FOUNDER, FAB FOURS

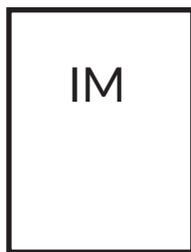
GETTING STARTED

Before you begin the installation process of your new Fab Fours product, we suggest laying out all materials and parts on a pad or protective surface.

Failure to fully account for all components before beginning installation may leave vehicle immobile until part is acquired. Refer to the next pages as an inventory check.



PROVIDED MATERIALS



M5350-IM



50185-HW



21971

HARDWARE KIT | 50185

FAB FOURS IDENTIFICATION	COMPONENT DESCRIPTION	QTY
50185-HW	1/4" x 1.0", 18-8, Stainless steel, Self-tapping screw	4
50185-HW	1/4"-20 x .75", Yellow-zinc, Grade 8, Hex head cap screw	2
50185-HW	1/4"-20, Yellow-zinc, Grade 8, Hex nut	2
50185-HW	1/4", Yellow-zinc, Grade 8, Lock washer	2
50185-HW	1/4", Yellow-zinc, Grade 8, Flat washer	4

TOOLS REQUIRED

- Plastic panel pry tool
- 7/16" socket wrench
- 7/16" open end wrench
- 5/16" socket
- 1/8" drill bit
- Center punch
- Flat head screw driver
- Drill
- Socket driver bit

ASSISTANCE

We recommend two people perform the installation as items are heavy and may need to be held in place while installing.

ORGANIZATION

Disassemble the vehicle where you can catalog and store everything. We suggest labeling and bagging all the OEM bolts when removing from the vehicle. Failure to keep track of parts could lead to an inability to properly reinstall components.

DISASSEMBLY

NOTE: Save all OEM parts until installation is complete!

1. Using a flathead screwdriver, remove the two (2) screws holding the air intake to the core support. (Figure 1)



Figure 1

2. Using a plastic panel pry tool, remove the five (5) push pins from the under-hood shroud. (Figure 2)



Figure 2

3. Once the push pins are removed, pull up on the shroud to release the clips along the top of the grill. Using the plastic panel pry tool, depress the tabs from the underside of the shroud. (Figure 3)



Figure 3

INSTALLATION

4. Begin the installation process by routing the OEM sensor harness from the bumper area to the driver side top area of the grille. (Figure 4-5)

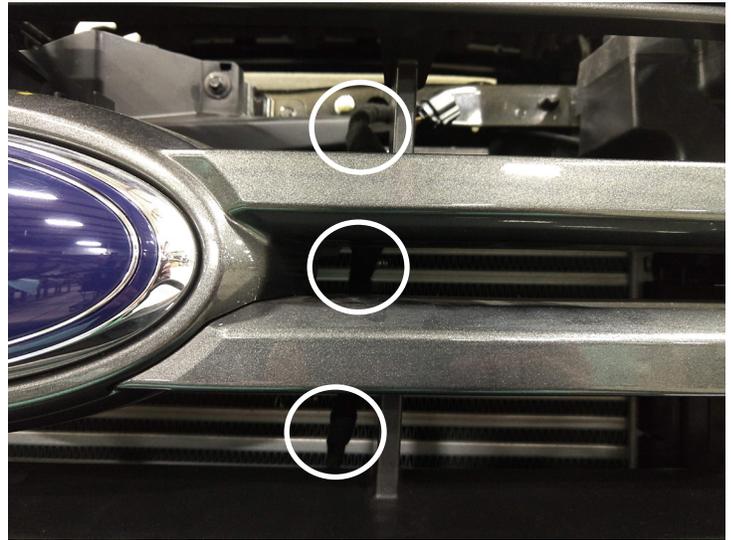


Figure 4



Figure 5

5. Using only your hands, separate the adaptive cruise control sensor and mounting plate from its mounting bracket that held it in the OEM bumper. (Figure 6)



Figure 6

6. Loosely install the OEM unit to the provided mounting bracket (21917) with two (2) of the 1/4" yellow zinc hex head cap screws, flat washers, lock washers, and nuts (50185-HW). (Figure 7)

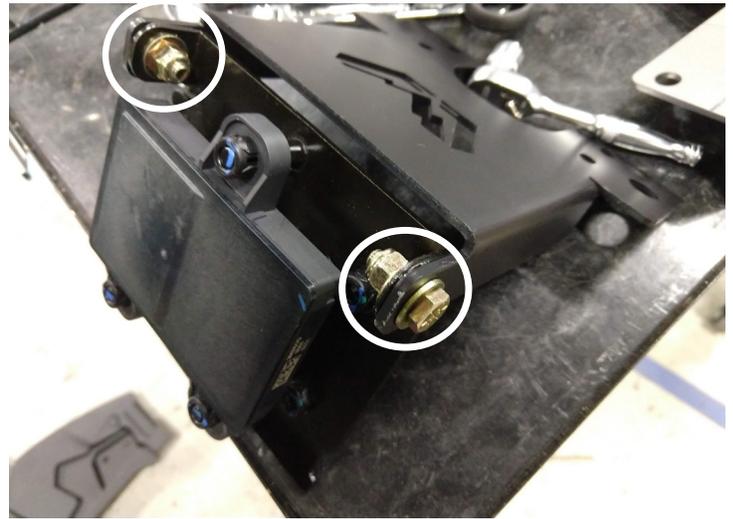


Figure 7

7. Place the mounted unit and provided bracket (21917) on the driver side of the core support aligning the cutout in the bracket with the raised area and the large hole in the bracket with the push pin hole. Then, using a center punch mark the four (4) slot locations into the core support. (Figure 8)

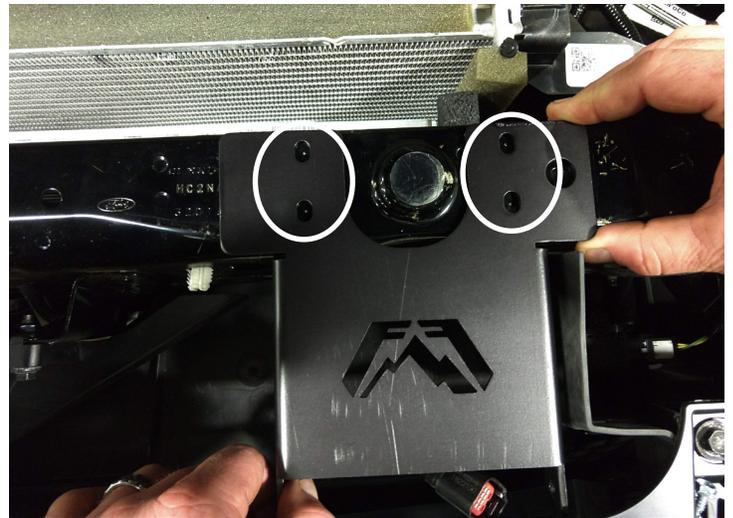


Figure 8

8. Check the inside of the core support in the area that the four (4) marks were made for wiring harness or cables. If any exist relocate them temporarily using the plastic panel pry tool to remove the ribbed shank push pins. (Figure 9)



Figure 9

9. Using a 1/8" drill bit, drill four (4) pilot holes into the core support at the previously marked locations. (Figure 10)

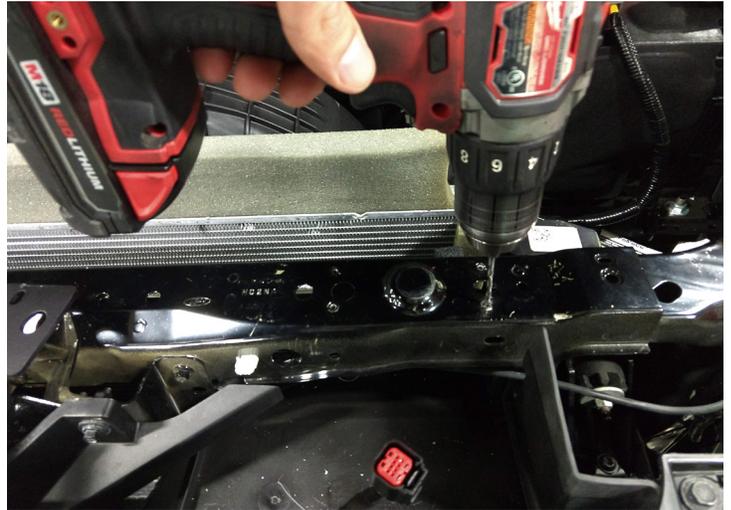


Figure 10

10. Using the drill with a socket adapter bit and a 5/16" socket, reinstall the sensor and bracket into place on the core support. Align the back edge of the bracket with the back edge of the core support and screw the provided four (4) 1/4" Stainless steel self-tapping screws (50185-HW) through the four (4) holes drilled in step 9. (Figure 11)

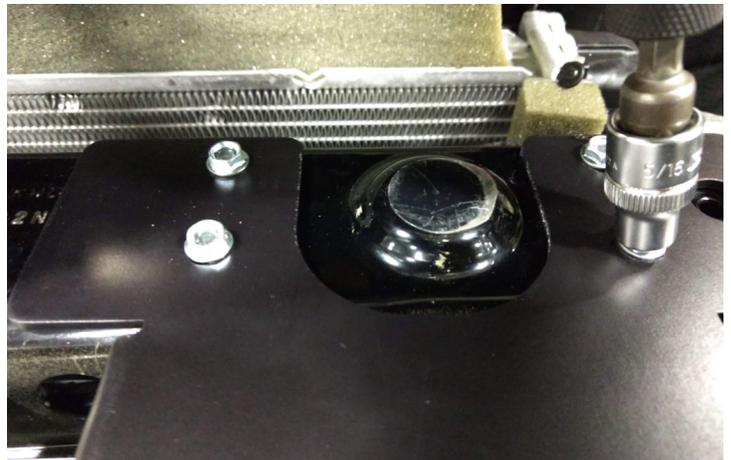


Figure 11

11. Reconnect the wiring harness the back of the sensor now. (Figure 12)

12. Ensure the sensor is as perpendicular to the ground as possible and pointing as straight forward as possible.

13. Using a 7/16" socket wrench and 7/16" open end wrench, tighten the provided hardware installed in step 6. (50158-HW)

14. Reinstall the under-hood shroud by reversing the steps outlined in steps 1-3 in the disassembly section.



Figure 12

CONTACT INFORMATION

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**“IF YOU’RE LOOKING FOR MORE OF THE SAME,
THEN YOU’VE COME TO THE WRONG PLACE.”**

- GREG HIGGS

