

# 21-UP BRONCO PRO SERIES ACC RELOCATION KIT

DOCUMENT: INST\_45209\_REVA • UPDATED: AUG 2022

Thank you for purchasing this ICON Vehicle Dynamics product. Please read through this entire document before proceeding with installation. If you are not confident in your mechanical skills, please seek the help of a professional to perform the installation. Check your packages immediately upon arrival to ensure that everything listed is included, and to check for damage during shipping. If anything is missing or damaged, or if you need technical assistance with any aspect of this installation, call (951) 689-ICON as soon as possible.



## APPLICATION

These installation instructions apply to the following products:

**45209 2021-UP FORD BRONCO ACC RELOCATION BKT**

## COMPONENTS INCLUDED

- (1) 2021- UP FORD BRONCO ACC BKT 1
- (1) 2021- UP FORD BRONCO ACC BKT 2
- (6) 2021- UP FORD BRONCO ACC SPACER

## HARDWARE INCLUDED

- (1) Hex Key
- (2) M6-1.00 X 20mm SS Hex Head Cap Screw
- (1) M6-1.00 X 25MM SS Carriage Bolt
- (5) M6 SS Flat Washer
- (3) M6-1.00 SS Nylon Insert Lock Nut
- (3) M10-1.5 X 30mm SS Button Head Cap Screw
- (3) M10 SS Flat Washer
- (3) M10-1.5 SS Nylon Insert Lock Nut

## TOOLS REQUIRED

- 8mm, 10mm, 15mm & 17mm sockets and ratchet
- E6 External Torx Socket
- Body panel removal tool or small pry bar
- Flat head screwdriver

## TECH NOTES

**NOTE:** These installation instructions are based on a clean installation on to a stock vehicle. Previously modified vehicles may require additional steps.

This ACC Relocation Kit it is required for ICON 45201 21-UP FORD BRONCO PRO SERIES FRONT BUMPER but may be used with ICON 45203 21-UP FORD BRONCO TRAIL SERIES FRONT BUMPER or with any aftermarket bumper that requires ACC relocation.

## IMPORTANT NOTICES - PLEASE READ FIRST

- ✓ **READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION OR TIRE DAMAGE MAY RESULT TO THE VEHICLE!**
- ✓ **ICON VEHICLE DYNAMICS RECOMMENDS ALL INSTALLATION TO BE PERFORMED BY A PROFESSIONAL SHOP/SERVICE TECHNICIAN. PRODUCT FAILURE CAUSED BY IMPROPER INSTALLATION WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY.**

## BEFORE YOU BEGIN

Please note that this vehicle has multiple variations of OE bumpers, this installation shows the removal of an OE modular steel bumper and OE plastic bumper with sensors. Read through the entire installation instructions to ensure the vehicle components match your model. If you need additional information on the removal of the bumper, there are online walkthrough videos that can help you on your installation.

## INSTALLATION INSTRUCTIONS

1. Ensure the vehicle is placed on a flat, level surface with the transmission in PARK (or first gear for vehicles equipped with a manual transmission), the tires chocked, and the emergency brake ON. Wear safety glasses from this point forward.
2. Open hood and disconnect the negative battery terminal.



3. If you are installing this kit in conjunction with the ICON 45201 21-UP FORD BRONCO WINCH BUMPER or ICON 45203 21-UP FORD BRONCO NON WINCH BUMPER, skip to Step 13.
4. Starting from the driver backside of the front bumper, unplug the sensor/fog light harness connector (if equipped) located above the bumper. This plug needs to be disconnected before removing the OE bumper. If desired, you can wait till the final bumper removal step to disconnect the harness connector instead of this step.

**PLASTIC BUMPER REMOVAL**

5. From the underside of the front bumper, using a 15mm socket remove the six (6) mounting bolts holding down the plastic splash guard. Remove the plastic tow hook covers as well.



FIG. 1



FIG. 2

6. Remove the sensor/fog light cover by pulling on the plastic covers starting from the inside edge towards center of the vehicle and moving your way towards the fog light. Covers are held in place by plastic clips on the back of the covers. Please note that there are sensor wires attached to the sensors. To remove the sensors from the covers, spread the tabs holding the sensor in place and apply pressure to the sensor from the front face of the cover. Repeat this step on the opposite cover.



FIG. 3



FIG. 4

7. Using a 15mm socket, remove the six (6) bolts holding the bumper in place (three (3) bolts per side).
8. With the help of a friend to prevent any damage to the vehicle, carefully up and over remove the front bumper from frame mounting points and place on a clean surface and move to Step 13. If you skipped Step 5, disconnect the wire harness at this point.



FIG. 5

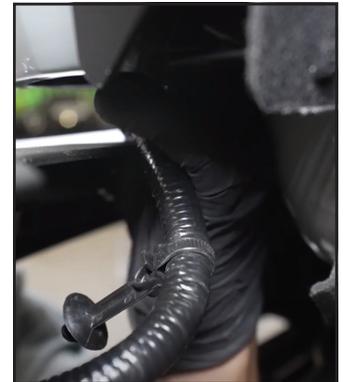


FIG. 6

**MODULAR STEEL BUMPER REMOVAL**

9. From the underside of the front bumper, using a pry tool or a flat head screwdriver remove the four (4) plastic clips holding the plastic panel around the tow hooks. Remove the panel by pulling firmly on the back edge and snapping the clips off the back of the panel (no tools required). Repeat this step on the opposite side.



FIG. 7



FIG. 8



FIG. 11



FIG. 12

- 10. Using a 15mm socket, remove the six (6) bolts holding the bumper in place [three (3) bolts per side].
- 11. With the help of a friend to prevent any damage to the vehicle, carefully up and over remove the front bumper from frame mounting points and place on a clean surface. If you skipped Step 5, disconnect the wire harness at this point.



FIG. 9



FIG. 10



FIG. 13



FIG. 14

**DISCONNECT THE AAC MODULE**

- 12. Once the front bumper has been removed, access the ACC module by removing the plastic guard help in place by clips (no tool required).
- 13. Using an 8mm socket, remove the three (3) bolts holding down the ACC mounting bracket and disconnect the ACC module from the wire harness. Set the ACC module and bracket aside at this point.

**GRILL & INNER GRILL REMOVAL**

- 14. Release the fender by positioning the five (5) fender latches underneath the fender to a down position. Remove the fender by pulling firmly outward on the inside edge (no tools required). Repeat this step on the opposite side. If the fender is not being released, ensure the mounting points have the latches on the down position.
- 15. Starting from one end of the vehicle, remove the front valance underneath the grill by pulling firmly outward on the inside edge (no tools required). Valance is held in place by a series of clips. To prevent damage to the painted surface, set aside and place on a moving blanket or clean surface.



FIG. 15



FIG. 16



- 16. Using a pry tool or a flat head screwdriver, remove the nine (9) clips that are holding the air deflector cover and set aside.



FIG. 17

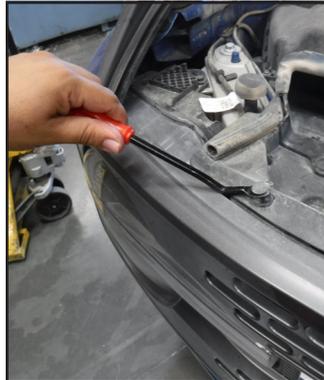


FIG. 18

- 17. Starting from the passenger side, to the right of the headlight housing there are two (2) lines that connect to the grill. Disconnect the brown connection by pressing down on the clip and pulling back. Disconnect the black connection by squeezing the sides and pulling away.



FIG. 19



FIG. 20

- 18. Using a 10mm socket, remove the four (4) bolts holding the top of the grill in place. At this point, starting from either side of the grill begin firmly pulling the grill from the front fascia of the vehicle (no tools required for this). Bottom and center sections of the grill is held in place by a series of clips. To prevent damage to the surface of the grill, set aside and place on a moving blanket or clean surface.



FIG. 21



FIG. 22

- 19. Starting from the passenger side headlight, using a pry tool or a flat head screwdriver, remove the one (1) clip furthest to the left of the housing. Using a 10mm socket, remove the two (2) bolts holding the top of the top of the headlight housing and an 8mm socket to remove the lower bolt that are holding the housing in place.
- 20. Release the housing by pulling firmly outward and disconnecting the headlight from the rear of the housing. To prevent damage to the surface of the housing, set aside and place on a moving blanket or clean surface. Repeat Step 20 & Step 21 on the driver side.



FIG. 23

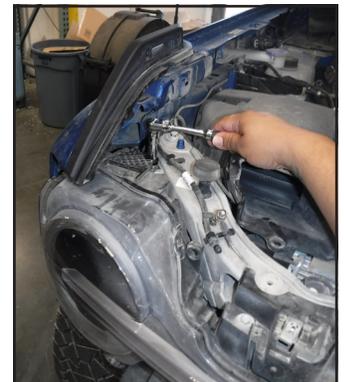


FIG. 24



FIG. 25

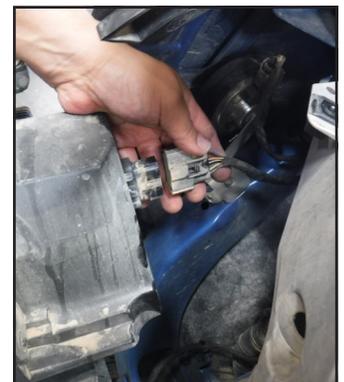


FIG. 26

- 21. Using a 10mm socket, remove the four (4) bolts holding the top of the inner grill in place. Then



from either side of the vehicle, to remove the inner grill use a 10mm socket to remove the four (4) bolts that hold it in place. There are two bolts on each side of the inner grill, once released place inner grill on a table or flat elevated surface.

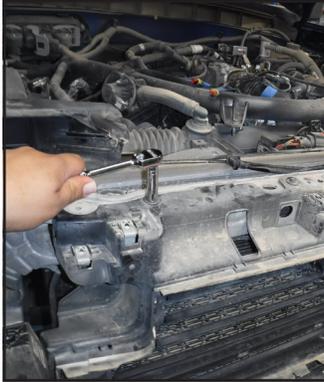


FIG. 27



FIG. 28

22. Remove the upper two (2) driver side louvers behind the inner grill, by releasing the plastic retainer on the right side by using a flat head screwdriver or using your hand to pry the two (2) tabs on the side and lifting.

23. Using a pry tool or a flat head screwdriver, dislodge the louvers from the motor on the left side and lift out of place.



FIG. 29

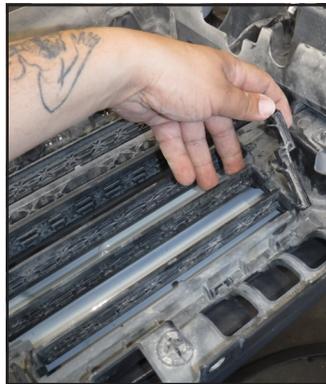


FIG. 30



FIG. 31

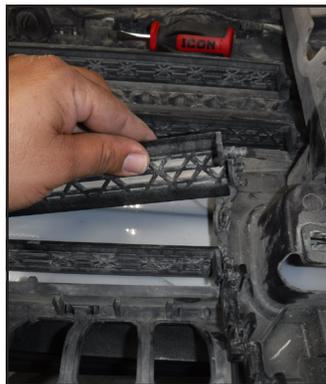


FIG. 32

24. Once the two (2) upper driver side louvers have been removed, using a paint marker or permeate marker, mark the upper section of the inner grill as shown. Using a cutting tool, remove marked out section and place inner grill on back in place for the moment and secure it by placing one (1) of the of the 10mm bolts to keep it from falling.



FIG. 33

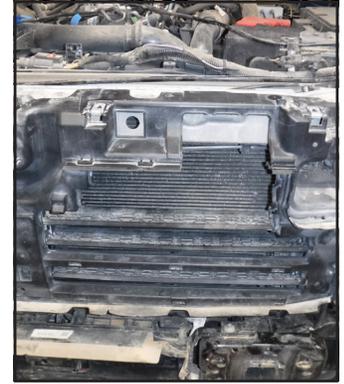


FIG. 34

### INTERCOOLER REMOVAL

25. On top of the driver side frame rail, using a pry tool or a flat head screwdriver, remove the one (1) clip holding the ACC wire harness in place. Disconnect the plug by pressing on the back clip and pulling out.

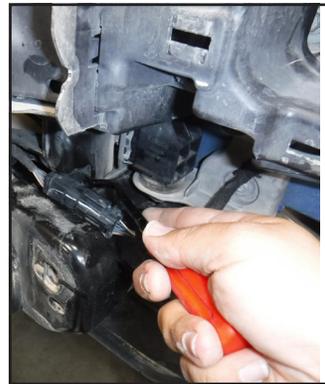


FIG. 35

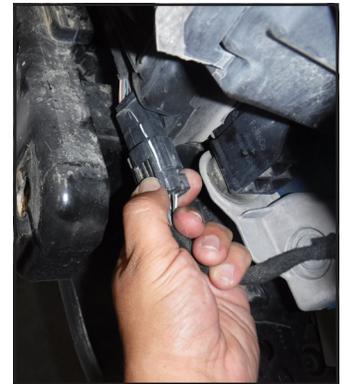


FIG. 36

26. Using an 8mm socket and wrench, remove the four (4) bolts holding intercooler in place (two (2) on each side). From either side of the vehicle, remove the top bolts using an 8mm wrench and 8mm socket to remove the bolts on the front of the intercooler. Once released place intercooler on a table or flat elevated surface.



FIG. 37



FIG. 38

- 27. Using a pry tool or a flat head screwdriver, remove the series of clips holding the ACC wire harness in place and disconnect the harness from the intercooler motor. Reroute and reconnect the wire harness from the top of the intercooler.
- 28. At this point you will need split the wire loom on the ACC wire harness. Unravel 15 inches of the wire loom from the ACC module connection point and use electrical tape to cover the exposed wiring on both unraveled sections of the loom. When unraveling wire, show caution not to damage the wiring in the process.
- 29. Reinstall and reconnect the intercooler, reference and work backwards from Step 27 and Step 26. Ensure the ACC wire harness is placed loosely on top of the intercooler.

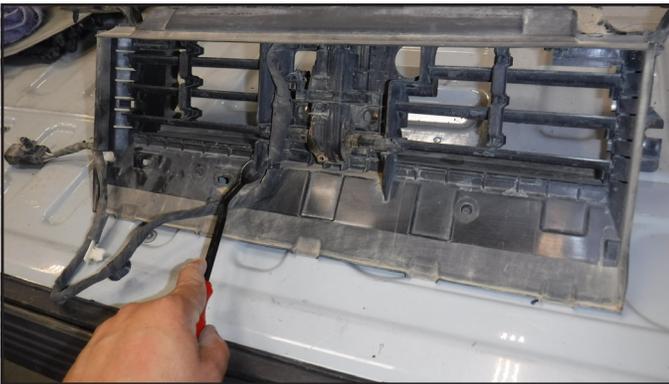


FIG. 39



FIG. 40



FIG. 41

**ASSEMBLE RELOCATION BRACKET**

- 30. Take the ACC module from Step 14 and remove it from the ACC mounting bracket by using a pry tool or a flat head screwdriver. Once module has been removed, using a flat head screwdriver remove the plastic retainer clips from the back of the module. Plastic retainers will not be reused, it's ok if they get damaged in the removal process.



FIG. 42



FIG. 43

- 31. To assemble the Bronco ACC Relocation bracket, locate the BRONCO ACC BKT 1 and BRONCO ACC BKT 2. Using a 10mm wrench and socket, use the supplied two (2) M6-1.00 X 20MM Hex Head Bolt, four (4) M6 Flat Washers, and two (2) M6-1.00 Nylock Nuts through the top side round holes on both sides of the brackets. Note that the BRONCO ACC BKT 1 should be on the outside of the BRONCO ACC BKT 2 and the hex head should be on the outside of the brackets, tighten the hardware to give it enough play to adjust the BRONCO ACC BKT 2.
- 32. Using a 10mm wrench or socket, use the supplied one (1) M6-1.00 X 25MM Square Neck Bolt, one (1) M6 Flat Washer, and one (1) M6-1.00 Nylock Nut through the bottom side square and round holes on both sides of the brackets. Square Neck should be inserted through the outside on the bracket,



tighten the hardware to give it enough play to adjust the BRONCO ACC BKT 2.



FIG. 44

33. Using a 17mm socket and the supplied Hex Key, secure the ACC module on to the BRONCO ACC BKT 2. Use the supplied three (6) ACC SPACERS and place them behind the ACC module (two (2) per mounting hole), use the supplied three (3) M10-1.5 X 30MM Button Head Bolts, three (3) M10 Flat Washer, and three (3) M10-1.5 Nylock Nut to secure the module and spacers to the front face of the BRONCO ACC BKT 2.

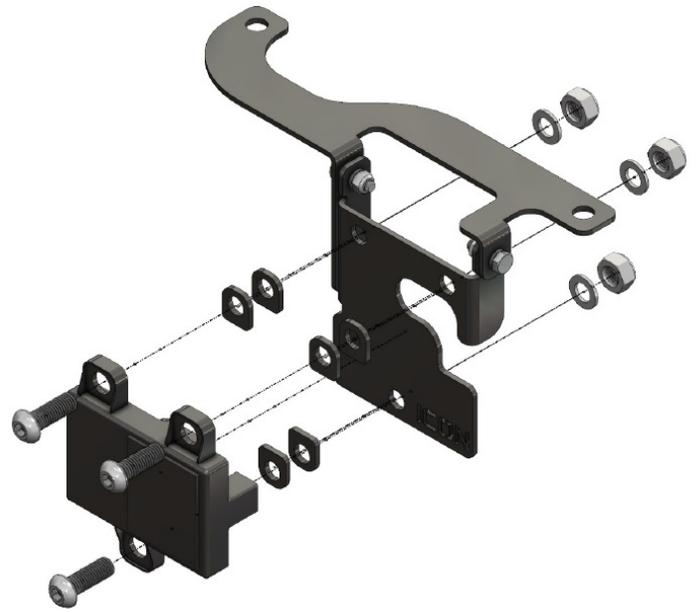


FIG. 45

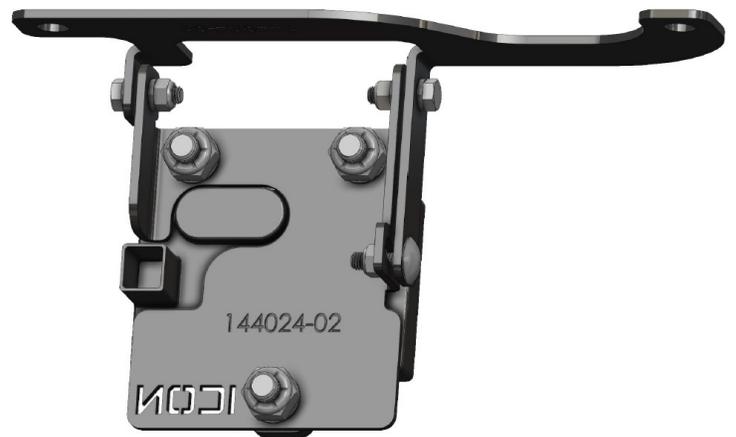


FIG. 46



FIG. 47

34. Before mounting the Bronco ACC Relocation bracket assembly, verify the assembly properly fits through the cutout and the mounting holes on the BRONCO ACC BKT 1 line up with the



two (2) mounting holes on the top of the inner grill. If there are any obstructions preventing the assembly from being mounted, additional trimming may be required.

- 35. Verify that the ACC wire harness will reach the connection. If the harness is too short, ensure that the harness is fully extended and not caught on something. You may need to go back and unravel more of the wire loom if necessary, referencing Step 29.
- 36. Once verified, Route the ACC wire harness connection from Step 30 up and through the backside of the inner grill towards the cutout from Step 25. Reconnect the ACC wire harness to the module on the back of the relocation bracket assembly and referencing Step 22 using a 10mm socket remount the inner grill. ADD sample shown in the pictures, need to change or photoshop



FIG. 48



FIG. 49



FIG. 50



FIG. 51

- 37. Once the Bronco ACC Relocation bracket assembly and inner grill have been secured, adjust the BRONCO ACC BKT to be parallel to the grill. At this point using a 10mm wrench, tighten the one (1) M6-1.00 X 25MM Square Neck Bolt, one (1) M6 Flat Washer, and one (1) M6-1.00 Nylock Nut from Step 33.
- 38. VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE MOVING TO THE NEXT STEPS.

### GRILL & BUMPER REINSTALLATION

- 39. To reinstall the grill, valance, headlights and fenders, reference and work backwards from Step 21 through Step 15.
- 40. To reinstall the OE bumper, reference and work backwards from Steps listed from your style bumper.
- 41. Reconnect the negative battery terminal and close the hood.
- 42. If you are installing this kit in conjunction with the ICON 45201 21-UP FORD BRONCO PRO SERIES FRONT BUMPER or ICON 45203 21-UP FORD BRONCO TRAIL SERIES FRONT BUMPER, reference the installation instructions and continue with the installation.
- 43. VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.
- 44. Congratulations! Your installation is complete. RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.

### ACC ADJUSTMENT

- 45. If the Adaptive Cruise Control (ACC) is too sensitive or not sensitive enough while driving, some further adjustment of the BRONCO ACC BKT may be necessary. This may be performed by removing the exterior grille fascia according to the procedure outline in these instructions. There is no need to remove the inner grille or bumper. Use a 10mm wrench to slightly loosen the two pivot bolts and the lock nut on the square neck bolt that attach the two pieces of the bracket assembly together. Tilt the ACC Main BKT downward a couple of degrees to make it more sensitive or tilt upward a couple of degrees to make it less sensitive. Once the adjustment is made, use the 10mm wrench to tighten the fasteners then re-install the exterior grille fascia.



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*ICON Vehicle Dynamics warrants to the original retail purchaser who owns the vehicle on which the product was originally installed. ICON Vehicle Dynamics does not warrant the product for finish, alterations, modifications and/or installation contrary to ICON Vehicle Dynamics instructions. ICON Vehicle Dynamics products are not designed, nor are they intended to be installed on vehicles used in race applications, for racing purposes or for similar activities. (A "race" is defined as any contest between two or more vehicles, or a contest of one or more vehicles against the clock, whether or not such contest is for a prize). This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warranty are sales outside of the United States of America and Canada.*

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