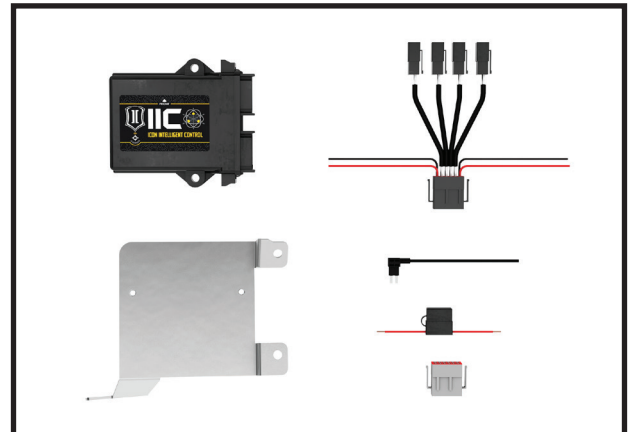


PART #	DESCRIPTION
43501	21-UP BRONCO IIC INSTALL KIT

COMPONENTS INCLUDED	
(1) 254406 21-UP BRONCO E-CONTROLLER MOUNT (1) 255600 IIC CONTROLLER (1) 255601 BLOCK OFF PLUG	(1) 255602 MAIN HARNESS IIC CONTROLLER (1) 255605-10 FUSE HOLDER 10 AMP (1) 255608 FUSE TAP MICRO2
HARDWARE INCLUDED	
(2) 605069 1/4-20 X 1.25 HHCS GR8 YZINC FULLY THREADED (2) 605750 BUTT CONNECTOR, 18GA, HEAT SHRINK (3) 605751 TERMINAL CONNECTOR 5/16", 18 GA, HEAT SHRINK (1) 605755 FUSE, 5 AMP MICRO2	(1) 605760 WIRE LOOM 1/4" X 6 FT (1) 605926 5-1/2 X 0.14 NYLON CABLE TIE, BLACK PACK OF 100 (2) 605984 RUBBER STRIP 1" X 3" X 1/32", ADHESIVE BACK (2) 605801 M6-1.0 X 16MM FLANGED BOLT
TOOLS REQUIRED	
FLUSH CUTS PHILLIPS HEAD SCREWDRIVER 7/16" SOCKET / WRENCH HEAT GUN WIRE CUTTERS	WIRE CRIMPERS 8MM SOCKET / WRENCH 10MM SOCKET / WRENCH 13MM SOCKET / WRENCH
TECH NOTES	
<p>1. GOLD WIRE COLOR IN FIGURES DENOTES BASIC WIRE PATH (FOR CLARITY).</p> <p>2. SEE PAGE 8 FOR WIRE ROUTING DIAGRAM.</p>	



WARNING!
<p><b>** READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE!</b></p> <p><b>** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.</b></p> <p><b>** 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.</b></p>

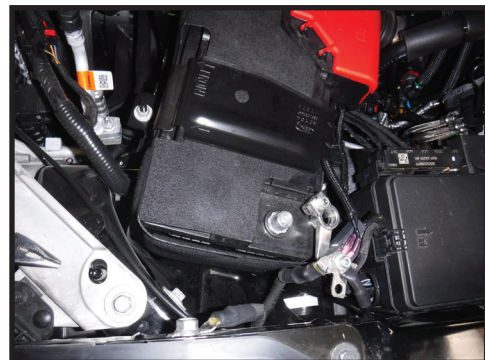
## INSTALLATION

1. Disconnect the Battery using a 10MM. [FIGURE 1 & 2]

FIG.1



FIG.2



2. V6 MODELS: Disconnect the 2 ground wires from the firewall using an 8MM. [FIGURE 3 & 4]

FIG.3



FIG.4



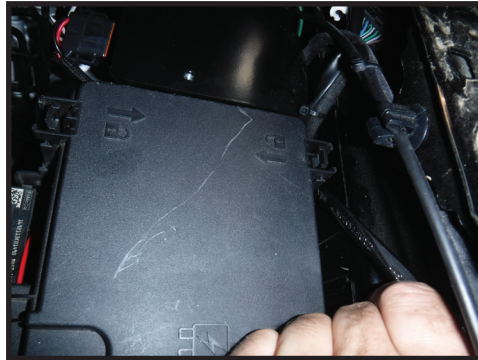
**3.** Loosen the bolt behind the fuse box several turns using a 13MM wrench. [FIGURE 5]

FIG.5



**4.** Slide the open slot of the IIC mount under the head of the bolt. [FIGURE 6]

FIG.6



**5.** Connect the IIC mount to the firewall.

**6. V6 MODELS:** Use the factory bolts to connect the ground wires and IIC mount.

**7. I4 MODELS:** Use the supplied M6 hardware (PN 605801) to connect the IIC mount to the firewall. [FIGURE 7]

FIG.7



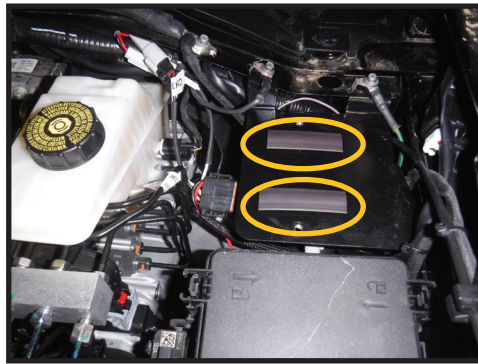
**8.** Tighten the bolt behind the fuse box using a 13MM. [FIGURE 8]

FIG.8



**9.** Remove the backing from the adhesive rubber strips and place them as shown. [FIGURE 9]

FIG.9



**10.** Connect the IIC (PN 255600) to the mount using the supplied 1/4" hardware and a 7/16". [FIGURE 10]

FIG.10



**11.** Connect the grey block off plug (PN 255601) to the grey port of the IIC. Connect the main wiring harness (PN 255602) to the black plug on the IIC. [FIGURE 11]

FIG.11



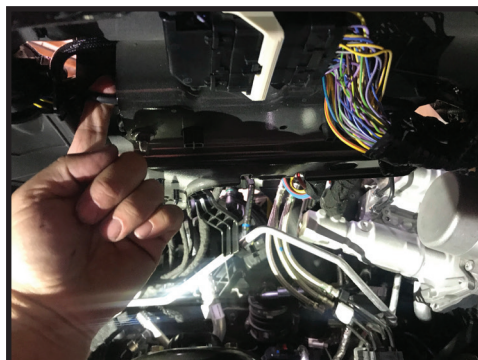
**12.** Remove both front fender liners using a Phillips head screwdriver.

**13.** Connect the 4-FT wire to the #4 plug. Route it under the IIC to the driver side fender well.

**14.** Connect the 14-FT wire to the #2 plug. Route it under the IIC to the driver side fender well.

**15.** Route the 4-FT wire forward following the wire harness to the front of the fender. [FIGURE 12]

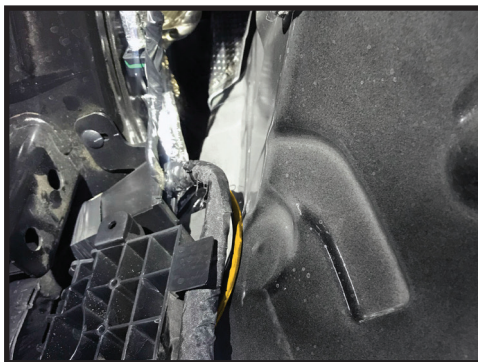
FIG.12





**16.** Route the 14-FT wire to the top of the driver fender and follow the wire harness down the back of the fender. [FIGURE 13]

**FIG.13**



**17.** Route the 14-FT wire down the outside of the driver side frame rail following the wire harness. Wrap up any excess wire and zip-tie to harness along frame rail. [FIGURE 14 & 15]

**FIG.14**



**FIG.15**



**18.** Connect to the rear driver shock. Be sure to leave enough wire to connect and disconnect from the shock. [FIGURE 16]

**FIG.16**



**19.** Connect the 10-FT wire to the #3 plug. Run it across the firewall and down into the passenger side fender well.

**20.** Connect the 18-FT wire to the #1 plug. Run it across the firewall and down into the passenger side fender well.

**21.** Use the supplied zip-ties to connect the 10-FT and 18-FT wires to the wire loom running across the firewall. [FIGURE 17 & 18]

**FIG.17**



**FIG.18**



**22.** Route the 10-FT wire down the front of the fender well and plug into shock. Wrap up excess wire and zip-tie in place. Be sure to leave enough wire to connect and disconnect from the shock. [FIGURE 18 & 19]

FIG.18



FIG.19



**23.** Route the 18-FT wire down the back of the fender well following the wire harness. Route along the outside of the passenger frame rail following the wire harness. [FIGURE 20, 21, 22, 23]

FIG.20



FIG.21



FIG.22



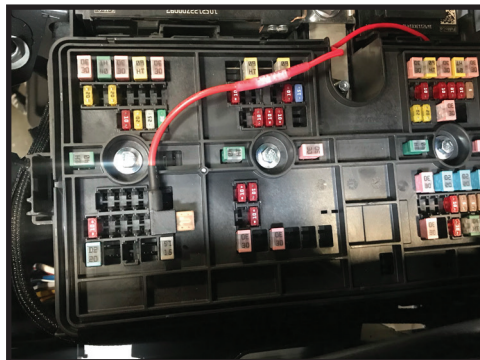
FIG.23



**24.** Plug into the rear passenger shock and wrap up excess wire and zip-tie to wire harness. Be sure to leave enough wire to connect and disconnect from the shock.

**25.** Use your owner's manual to locate the INJ fuse. Remove the fuse and insert it into the bottom fuse slot of the supplied fuse tap (PN: 255608). Insert the supplied fuse (PN 605755) into the upper fuse slot in the fuse tap. Insert the fuse tap into the INJ location of the fuse box. [FIGURE 24]

FIG.24





**26.** Route the ACC (Accessory) wire into the fuse box and trim to length.

**27.** Connect the negative battery terminal to the battery using a 10MM. [FIGURE 25]

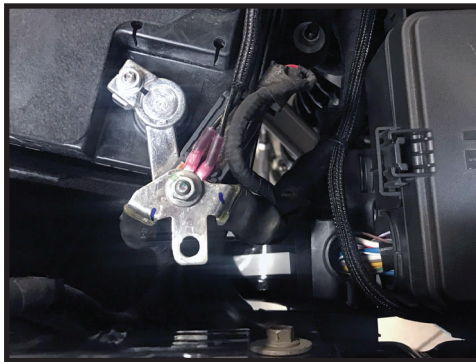
FIG.25



**28.** Slide wire loom (PN 605760) over the 2 black BATT (Battery) wires and the red PWR (Power) wire. Route the loom and wires behind the fuse box to the battery.

**29.** With the 2 black GRND (Ground) wires, cut to length, strip, and crimp the terminal connectors (PN 605751) on. Use a heat gun to activate heat shrink. [FIGURE 26]

FIG.26



**30.** With the red PWR (Power) wire, route it to the positive battery terminal and cut to desired length. Use the supplied butt connector (PN 605750) to connect the fuse holder (PN 255065-10) to the red PWR (Power) wire. Crimp the terminal connector (PN 605751) to the inline fuse and connect to the positive battery terminal. Use a heat gun to activate heat shrink. [FIGURE 27]

FIG.27



**31.** Trim wire loom as necessary and zip-tie accordingly. [FIGURE 28]

FIG.28



**VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.**

**RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.**

### **ICON VEHICLE DYNAMICS LIMITED LIFETIME WARRANTY**

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.

ICON Vehicle Dynamics' obligation under this warranty is limited to the repair or replacement, at ICON Vehicle Dynamics' discretion, of the defective product. Any and all costs of removal, installation or re-installation, freight charges and incidental or consequential damages are expressly excluded from this warranty. Items that are subject to wear are not considered defective when worn and are not covered.

ICON Vehicle Dynamics components must be installed as a complete kit as shown in our current application guide. Any substitutions or exemptions of required components will immediately void the warranty. Some finish damage may happen to parts during shipping and is not covered under warranty.

This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been improperly installed, modified or customized subject to accident, negligence, abuse or misuse.



**ICON VEHICLE DYNAMICS®**  
PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

7929 Lincoln Ave. Riverside, CA 92504 Phone: 951.689.ICON Fax: 951.689.1016  
[www.iconvehicledynamics.com](http://www.iconvehicledynamics.com)



**FOLLOW US ON FACEBOOK!**



# WIRE ROUTING DIAGRAM: Bronco

