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ICON Vehicle Dynamics 53508 Installation Instructions

IIC Install Kit for Toyota Tundra & Sequoia

Part number: 53508

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53508 INSTALLATION INSTRUCTIONS

2-22-2023 REV.A

PART #	DESCRIPTION
53508	22-UP TUNDRA IIC KIT

COMPONENTS INCLUDED

(1) 254409 22-UP TUNDRA IIC MOUNT (1) 255600 IIC CONTROLLER (1) 255601 BLOCK OFF PLUG (1) 255602 WIRE HARNESS	(1) 255605-10 INLINE ATO FUSE HOLDER W/10 AMP FUSE (1) 255607 FUSE TAP LOW PROFILE MINI

HARDWARE INCLUDED

(2) 605033 SELF DRILL SCREW (2) 605069 1/4-20 X 1.25 BOLT (2) 605750 BUTT CONNECTOR (3) 605751 5/16 TERMINAL CONNECTOR (1) 605753 LOW PROFILE MINI FUSE 2 AMP	(1) 605760 WIRE LOOM 1/4" X 6FT (1) 605926-BLK-100 BLACK NYLON CABLE TIE 100PK (2) 605984 RUBBER STRIP 1" X 3" ADHESIVE BACK

WIRES INCLUDED WITH FRONT SHOCKS

PASS FRONT: (1) 255604-04 4-FT WIRE	DRIVER FRONT: (1) 255604-08 8-FT WIRE

WIRES INCLUDED WITH REAR SHOCKS

PASS REAR: (1) 255604-16 16-FT WIRE	DRIVER REAR: (1) 255604-20 20-FT WIRE

TOOLS REQUIRED

WIRE CUTTERS WIRE STRIPPER WIRE CRIMPERS FLUSH CUTS PHILLIPS HEAD SCREWDRIVER	HEAT GUN TORQUE WRENCH 10MM SOCKET / WRENCH 12MM SOCKET / WRENCH 7/16" SOCKET / WRENCH

TECH NOTES

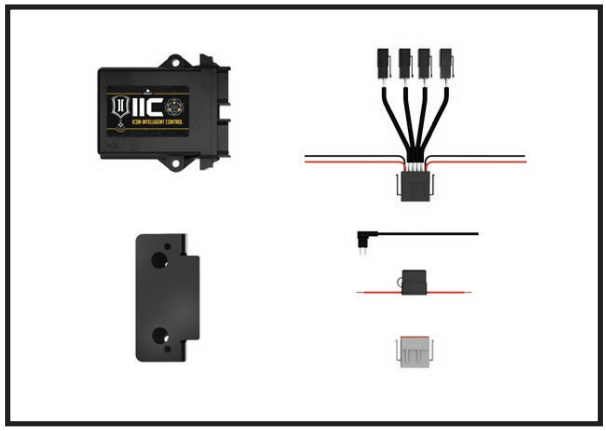
1. WIRE LENGTHS ARE MEASURED FOR V6, CREW CAB, SHORT BED.

2. GOLD WIRE COLOR IN FIGURES DENOTES BASIC WIRE PATH (FOR CLARITY).

3. SEE PAGE 8 FOR WIRE ROUTING DIAGRAM.

FUSE OPTIONS

S/HTR F/L (15A)



WARNING!

*** 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!*

*** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.*

*** 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.*

INSTALLATION

1. Disconnect the Battery using a 10mm.

2. Unclip the fender shroud from the passenger side fender but pulling straight up. Be careful not to damage the clips. **[FIGURE 1]**



FIG.1

3. Place the IIC mount (PN 254409) as shown. Line up with the inner edge of the mounting surface. Mark the location of the rear most hole with a marker. Remove the mount. **[FIGURE 2]**

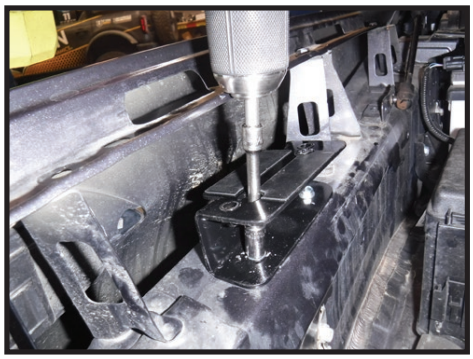


FIG.2

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4. Use the supplied self-drilling hardware (PN 605066) to drill and thread a hole in the marked location. Remove the hardware and position the mount. Fasten the mount using the rear screw. With the mount fastened in place, drill the forward most hole self-drilling hardware. Torque both screws to 45 in-lbs. **[FIGURE 3]**

FIG.3



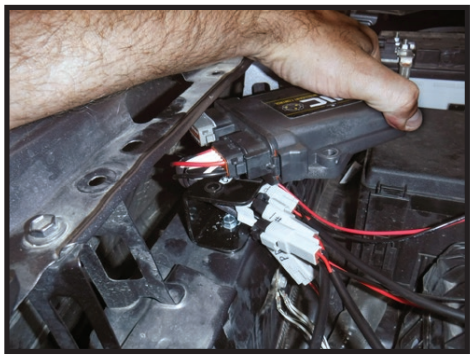
5. Place the 2 adhesive strips (PN 605984) on the mount as shown. **[FIGURE 4]**

FIG.4



6. Position the IIC and start the rear mounting bolt. Rotate the IIC out from under the fender. Plug in the grey block off plug (PN 255601) to the grey port. Plug in the main wire harness (PN 255602) to the black port as shown. Route all wires under the mount. **[FIGURE 5]**

FIG.5

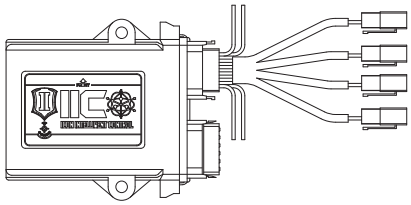


7. Rotate the IIC into position and fasten using the supplied hardware. Torque to 15 ft-lbs. using a 7/16. **[FIGURE 6]**

FIG.6



WIRE CONNECTIONS



PLUG	POSITION	WIRE LENGTH	PART #
#4	DRIVER FRONT	8-FT WIRE	255064-08
#3	PASSENGER FRONT	4-FT WIRE	255064-04
#2	DRIVER REAR	20-FT WIRE	255064-20
#1	PASSENGER REAR	16-FT WIRE	255064-16

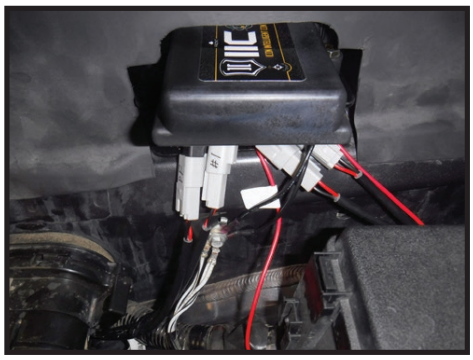
8. Carefully trim the fender shroud to fit around the IIC and mount. Replace the fender shroud. **[FIGURE 7]**

FIG.7



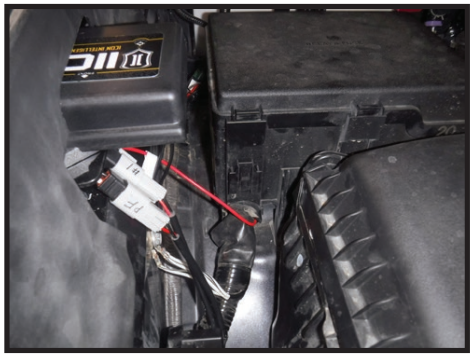
9. Route the 2 black ground wires to the ground connection under the IIC mount on the fender. Cut to length, strip, and crimp the terminal connectors (PN 605751) on. Use a heat gun to activate heat shrink. Connect to the fender ground using a 10mm. **[FIGURE 8]**

FIG.8



10. Route the red ACC (ACCESSORY) wire down to the wire loom at the base of the fuse box. Feed the red AAC (ACCESSORY) wire up into the fuse box. **[FIGURE 9]**

FIG.9

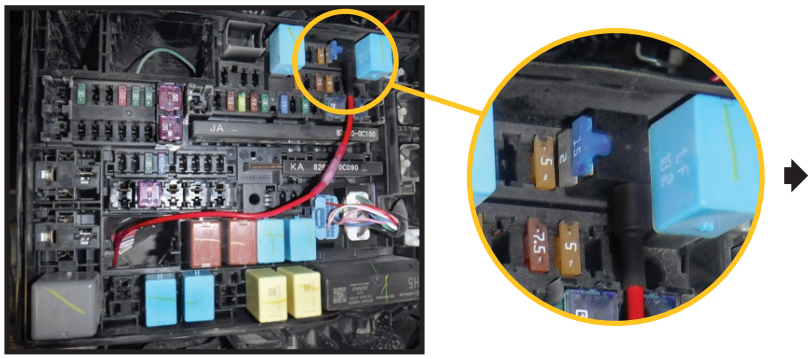


11. Locate the supplied fuse tap (PN 255607) and low-profile mini fuse. Insert the supplied fuse into the lower fuse slot on the fuse tap. Locate the S/HTR F/L fuse. Remove the S/HTR F/L fuse and insert it into the upper slot on the fuse tap.

12. Insert the fuse tap in the original location of the S/HTR F/L fuse.

13. Use the supplied butt connector (PN 605750) to connect the fuse tap to the red ACC (ACCESSORY) wire. Use a heat gun to activate heat shrink. **[FIGURE 10 & 10B]**

FIG.10



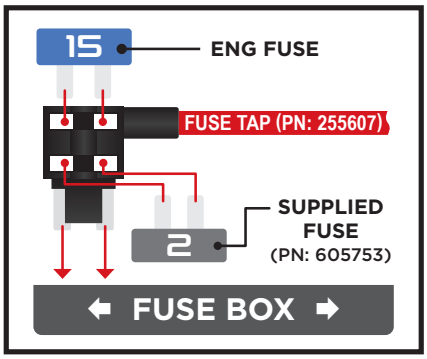


FIG.10B

14. Route the 4-ft wire and 8-ft wire under the air cleaner and down into the engine bay in front of the air cleaner. Zip-tie as you go. **[FIGURE 11]**

FIG.11



15. Route the 4-ft wire over the frame rail to the passenger side front shock. **[FIGURE 12]**

FIG.12



16. Route the 8-ft wire down and across the bottom of the radiator to the driver side. Route the wire up and over the frame rail to the driver side front shock. **[FIGURE 13, 14, 15]**

FIG.13





FIG.14

FIG.15



17. Route the 16-ft and 20-ft wires down between the fuse box and the battery. Then route them down into the engine bay. **[FIGURE 16]**

FIG.16



18. Route the wires along the brake lines down to the frame rail. **[FIGURE 17 & 18]**

FIG.17

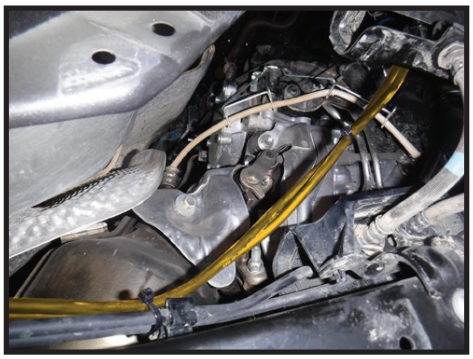
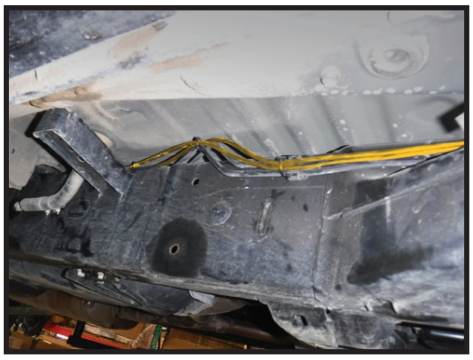




FIG.18

19. Rout the wires along the frame rail following the brake lines. **[FIGURE 19 & 20]**

FIG.19



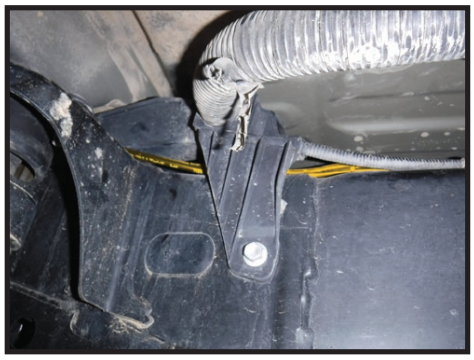


FIG.20

20. Route the wires along the wire harness to the passenger rear shock. Route the 16-ft wire to the passenger side rear shock reservoir. **[FIGURE 21 & 22]**

FIG.21

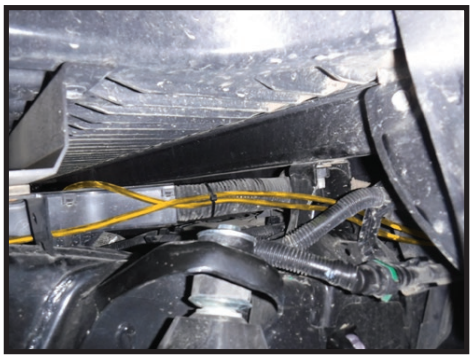




FIG.22

21. Route the 20-ft wire across the crossmember following the wire harness to the driver side rear shock. Continue to the driver side rear shock reservoir. **[FIGURE 23, 24, 25]**

FIG.23





FIG.24

FIG.25



22. Reconnect the battery using a 10mm.

23. Download the ICON INTELLIGENT CONTROL App on your device. Open the app and turn on the vehicle.

VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.

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

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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.

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.

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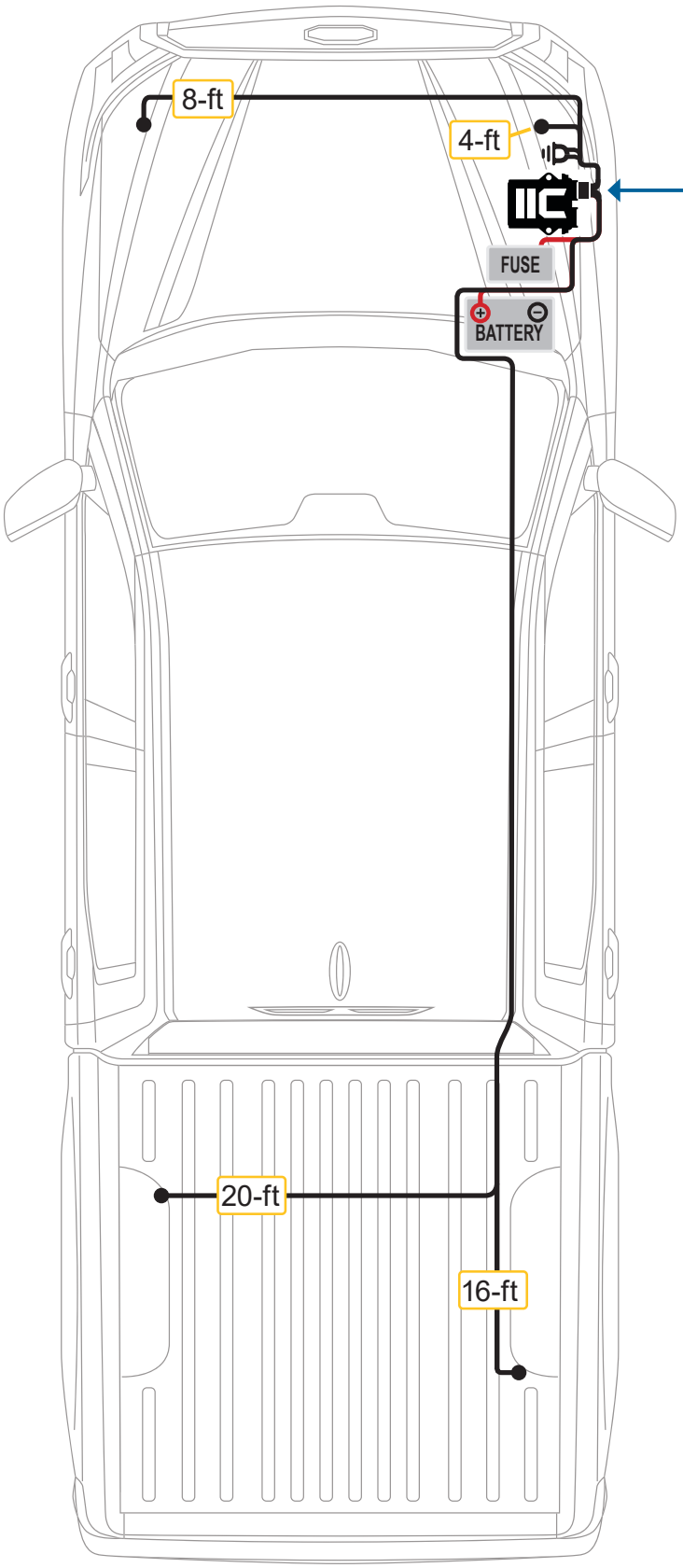
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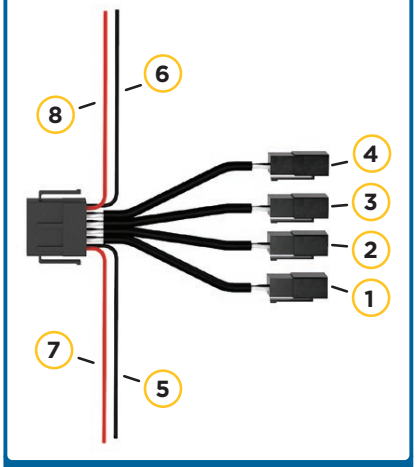
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WIRE ROUTING DIAGRAM:

2022 Tundra



WIRING GROUP
4-SHOCK WIRES
4-POWER SUPPLY WIRES



DESCRIPTION	
1	CH1 – PASS REAR
2	CH2 – DRVR REAR
3	CH3 – PASS FRONT
4	CH4 – DRVR FRONT
5	BATTERY GROUND
6	CHASSIS GROUND
7	BATTERY POWER (10 AMP FUSE)
8	ACC POWER (1-5 AMP FUSE)