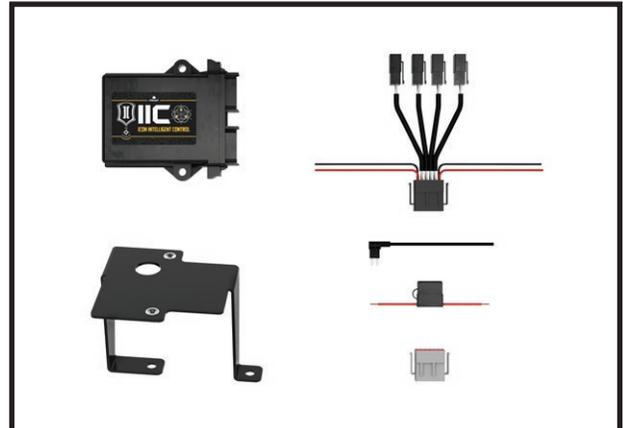


7929 Lincoln Ave. Riverside, CA 92504  
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PART #	DESCRIPTION
53512	24 LEXUS GX550 IIC KIT

COMPONENTS INCLUDED	
(1) 150201 24 GX550 IIC MOUNT (1) 255600 IIC CONTROLLER (1) 255601 BLOCK OFF PLUG	(1) 255602 WIRE HARNESS (1) 255607 FUSE TAP LOW PROFILE MINI (1) 255605-10 FUSE HOLDER 10 AMP
HARDWARE INCLUDED	
(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 (1) 605860 M8-1.25 X 30MM FLANGE HHCS YZINC
WIRES INCLUDED WITH FRONT SHOCKS	
PASS FRONT: (1) 255604-04 4-FT WIRE	DRIVER FRONT: (1) 255604-14 14-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 7/16" SOCKET / WRENCH CUT OFF WHEEL 12MM SOCKET
TECH NOTES	
<ol style="list-style-type: none"> <li>1. WIRE LENGTHS ARE MEASURED FOR 24 GX550.</li> <li>2. GOLD WIRE COLOR IN FIGURES DENOTES BASIC WIRE PATH (FOR CLARITY).</li> <li>3. SEE PAGE 6 FOR WIRE ROUTING DIAGRAM</li> <li>4. INTSTALL TIME: 6 HOURS.</li> </ol>	
FUSE OPTIONS	
ENG-ING NO.1 (7.5A)	



**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.** Locate battery box on passenger side by the cowl and remove cover [FIGURE 1]



FIG.1

**2.** Disconnect the Battery using a 10mm.

**3.** Using a 12mm socket remove the two bolts on the battery hold down [FIGURE 2]



FIG.2

4. Taking the IIC mount (PN 150201) apply the adhesive strips (PN 605984) between the bolt holes.

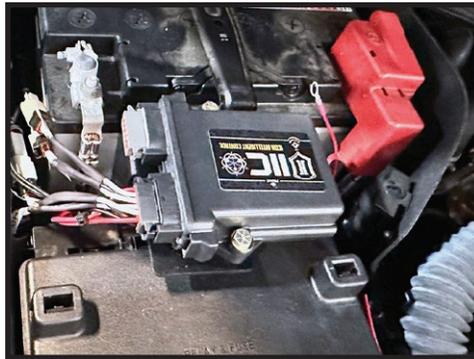
5. Place the IIC mount down upon the battery mount and reinstall the factory hardware using a 12mm socket and extension. torque to factor specs [FIGURE 3]

FIG.3



6. Using the supplied 1/4-20 bolt mount the IIC controller to the mount. 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. [FIGURE 4]

FIG.4



7. 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 tighten all IIC mounting bolts at this time. [FIGURE 5 & 6]

FIG.5

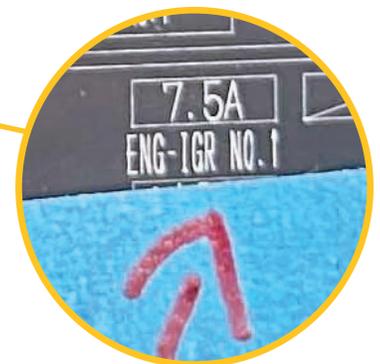
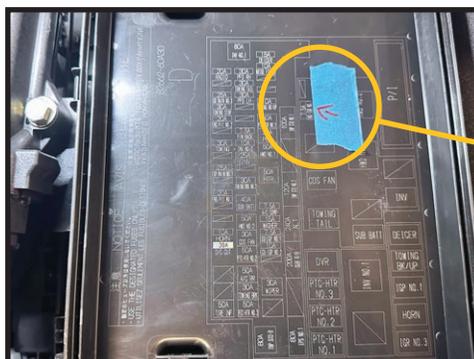


FIG.6



8. Locate the the fuse box in front of the IIC and remove the cover and locate the 7.5A ENG-ING NO.1. [FIGURE 7]

FIG.7



9. Route the red ACC (ACCESSORY) wire and main power wire down to the wire loom at the base of the fuse box. Feed the red AAC (ACCESSORY) wire and main power wire up into the fuse box. Using the 22607 low profile fuse tap mini install the 2A fuse on top. Locate the 7.5A ENG-ING NO.1, remove it and place the 7.5A fuse in the bottom thne plugging the fuse tap in it place. [FIGURE 8 & 9]



FIG.9

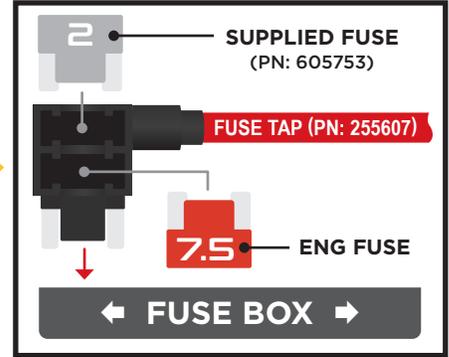
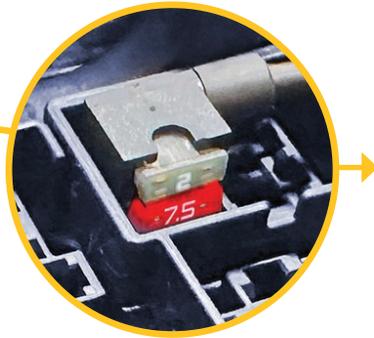
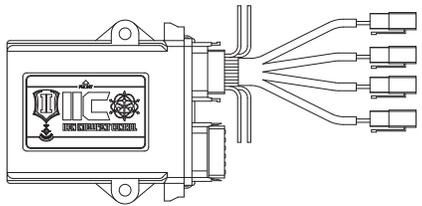


FIG.9b

10. Reinstall fuse box cover.

11. Locate the red (PWR) wire putting the 605751 terminal on the end and placing it on the positive side of the battery.

## WIRE CONNECTIONS



PLUG	POSITION	WIRE LENGTH	PART #
4	DRIVER FRONT	14-FT WIRE	255064-14
3	PASSENGER FRONT	4-FT WIRE	255064-04
2	DRIVER REAR	16-FT WIRE	255064-16
1	PASSENGER REAR	20-FT WIRE	255064-20

12. Route the 4-ft wire down to the frame rail to the passenger side front shock. [FIGURE 10]

FIG.10



13. Route the 14-ft wire back to the fire wall and across the to the driver side. Route the wire under the battery along the frame rail to the driver side front shock. [FIGURE 11, 12, 13]



FIG.11



FIG.12



FIG.13

**14.** Route the 16-ft and 20-ft wires down along the frame.

**15.** Route the wires along the brake lines down to the frame rail. Using the zip-ties to hold the wires to the brake line. [FIGURE 14 & 15]

FIG.14



FIG.15



**16.** Route the wires along the wire harness to the driver rear shock. Route the 16-ft wire to the driver side rear shock reservoir. [FIGURE 16 & 17]

FIG.16



FIG.17



**17.** Route the 20-ft wire across the crossmember following the wire harness to the driver side rear shock. Continue to the passenger side rear shock reservoir. [FIGURE 18 & 19]

FIG.18

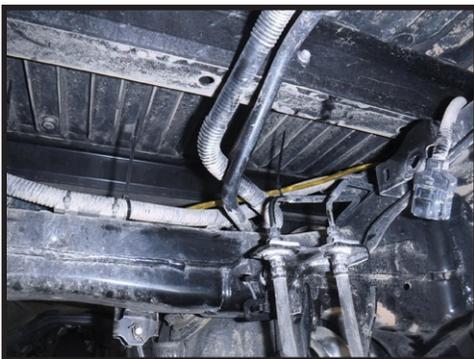


FIG.19



**18.** Reconnect the battery using a 10mm.

**19.** Take the factory battery cover using a saw or cut off wheel notch out a section for the IIC and reinstall [FIGURE 20]

FIG.20



**20.** 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.**

### **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.

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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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# WIRE ROUTING DIAGRAM: 24 Lexus GX550

