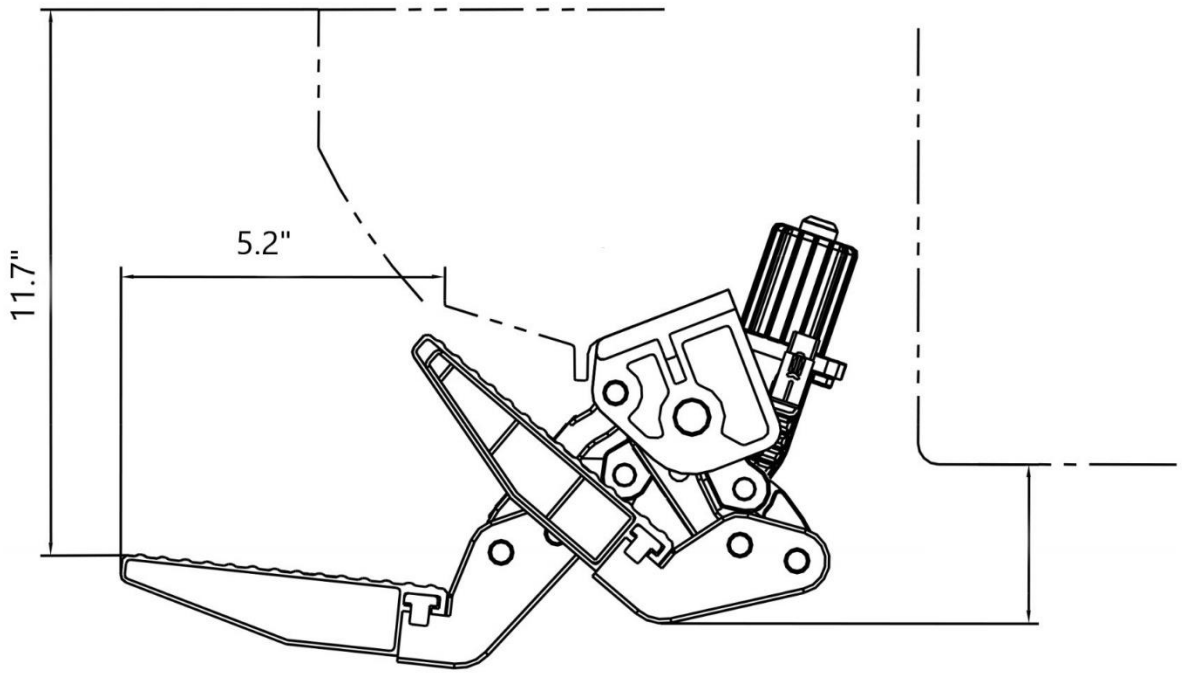
PRODUCT TECHNICAL SPECIFICATIONS

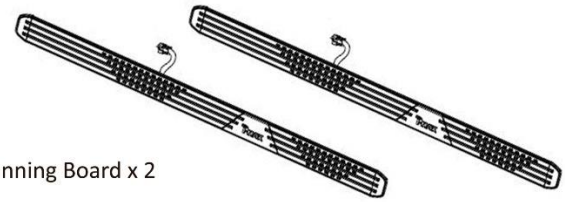
Rated Voltage: 12V
Dimensions: 71 x 16 x 10 inches
Load Rating: 650 lbs per side
Gross Weight: 77 lbs
Forward Distance the board extends: 5.2”
Vertical Distance the board extends: 11.7”



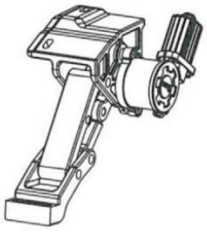
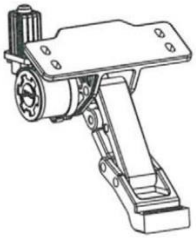
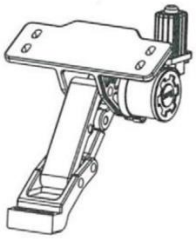
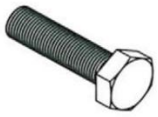
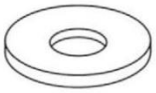
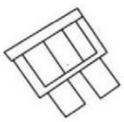
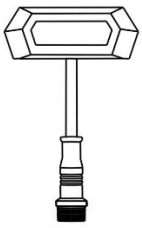
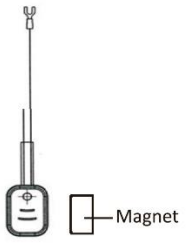
WARNING: Tyrant4x4 E-Boards are NOT designed to provide vehicle body protection. Components can potentially be damaged by hard impact or contact with foreign objects.

TYRANT 4X4 E-BOARD PARTS LIST

Please verify that all listed components were included in your package. If not please contact www.tyrant4x4.com.au for assistance.

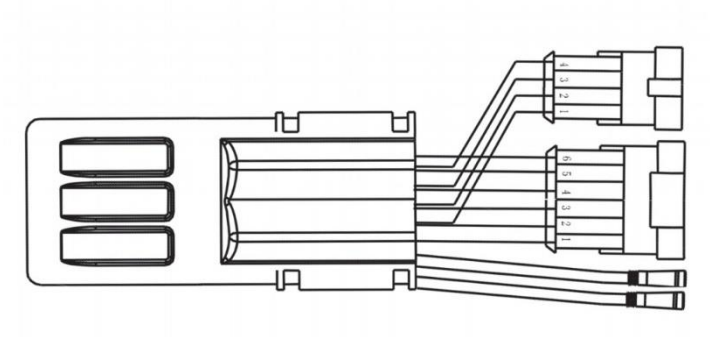


Running Board x 2

Front Motor Linkage (Right)	 Front Motor Linkage (Left)	 Rear Motor Linkage (Left)	 Rear Motor Linkage (Right)
Socket Cap Screws x 8	 Hexagon Flange Bolt x 8	Spring Washer x 8	 Flat Washer x 8
Cable Tie x 25	 20A Fuse x 2	 LED Lamp Module x 4	 Magnetic Sensor x 4 Magnet x 4

PRODUCT PACKING LIST

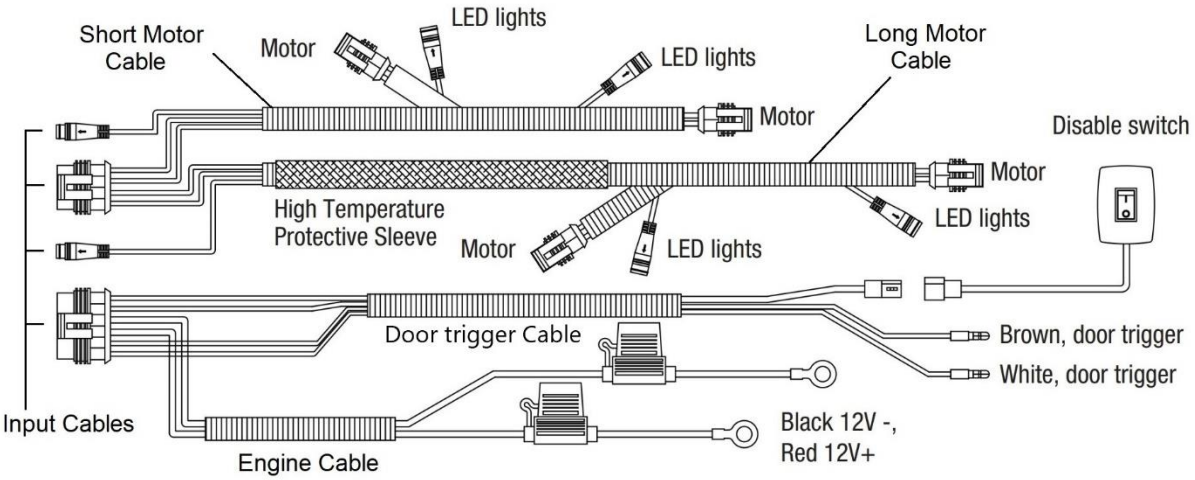
Controller Mounting Bracket



4-conductor plug
6-conductor plug

Black 2-conductor plug
Red 2-conductor plug

Controller Assembly



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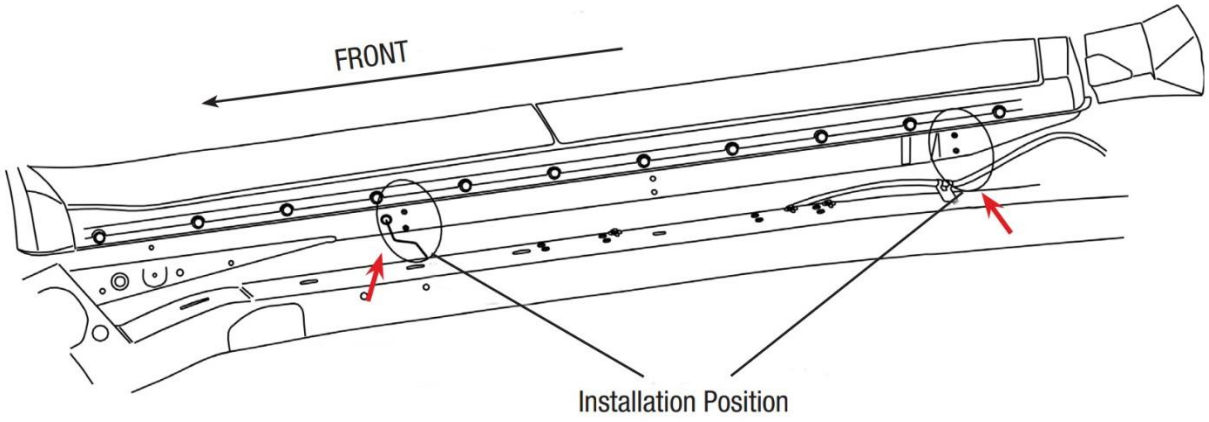
INSTALLATION INSTRUCTIONS

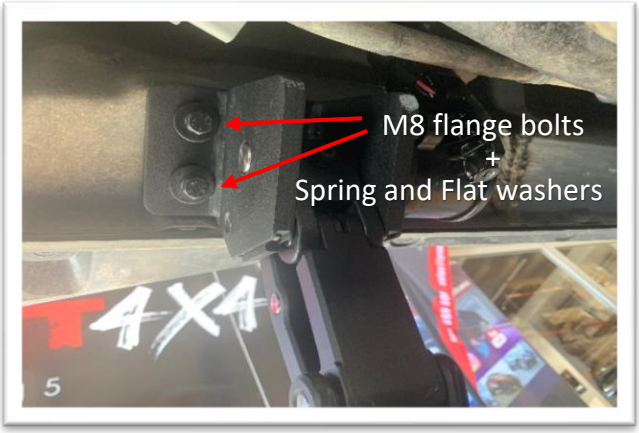


Step 1: (Optional step for safety) Disconnect the car Battery. Begin with the negative battery terminal followed by the positive terminal. This step is not required if you have experience in car mechanics.

Step 2: Remove the stock side steps on each side by unscrewing the 6 bolts (2 per bracket) on the 3 brackets of each step.

Step 2

Step 3: Install the rear driver side motor linkage using 2x M8 flange bolts and washers. The bolts should be hand tightened only until snug, allowing the motor assembly to move and align easier when installing the running board.



Step 3

INSTALLATION INSTRUCTIONS

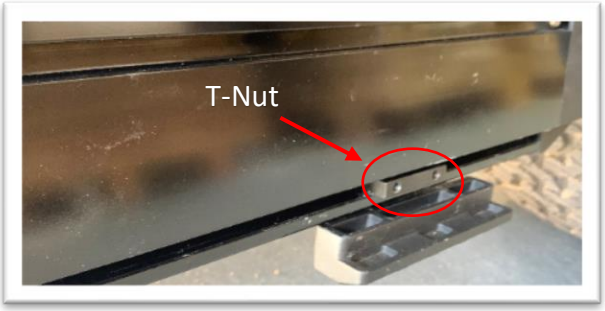
Step 4: Install the front driver side motor linkage using 2x M8 flange bolts and washer. The hardware should be hand tightened only until snug allowing for the motor assembly to move and align easier when installing the running board.

Step 4

Step 5: Install the driver side running board.

a) Begin by propping up the running board onto the front and rear motor linkages.
b) Align the sliding T-Nuts on the running board with the middle slot of the front and rear motor bases.
c) Once the T-Nuts are aligned, flip the running board horizontal so that the T-Nuts drop into the slots of the assembly bases. Position the running board to be evenly distanced on the motor bases for balance. then secure using 2x socket cap screws per base.
d) Using a torque wrench tighten the socket cap screws securing the running board to the motor linkages.

Step 5a



Step 5b

Step 5c

Step 5d

INSTALLATION INSTRUCTIONS

Step 6: Now that the running board is installed, go back and tighten the hardware on the driver side front and rear motor linkages. Using a torque wrench, tighten the mounting hardware.

Step 7: Repeat steps 2-6 to install the motor linkages and running board on the passenger side of the vehicle.

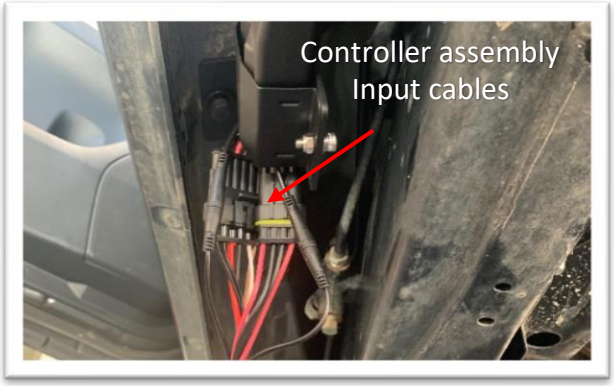
Step 8: Locate the position of the removed middle bracket on the driver side rocker panel.

Step 8

Step 9: Install the Controller mounting bracket using an M8 flange bolt and washer, tightening with a torque wrench.

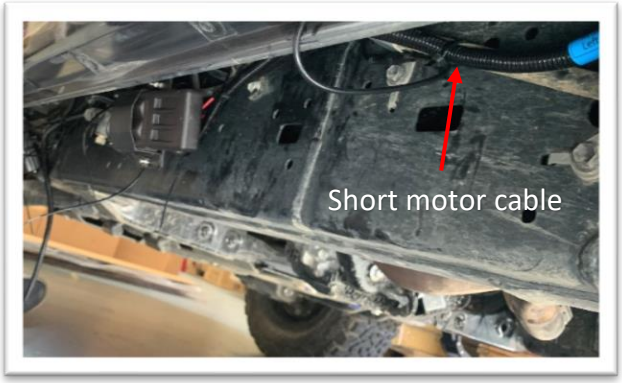
Step 9

Step 10: Plug the Controller assembly input cables into the controller mounting bracket. They are color coded and size specific.



Step 10

Step 11: Run the Short motor cable along the frame rail of the vehicle connecting the 2x Motor connectors to the 2x Motor linkages on the same side as the Controller mounting bracket. The connectors and plugs are all labelled accordingly.



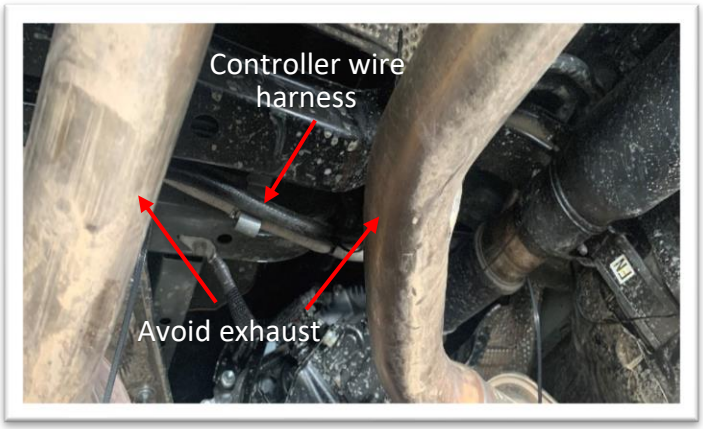
Step 11

INSTALLATION INSTRUCTIONS

Step 12: Align the arrows on the small round connectors and plug the driver side front and rear LED lamp Module. Clean the surface of the bottom side of the rocker panel at the center of the front and rear driver side doors where the LED lights will attach. Once the surface is completely dry, peel the backing from the double sided tape and stick the LEDs to the clean and dry surfaces.

Step 12

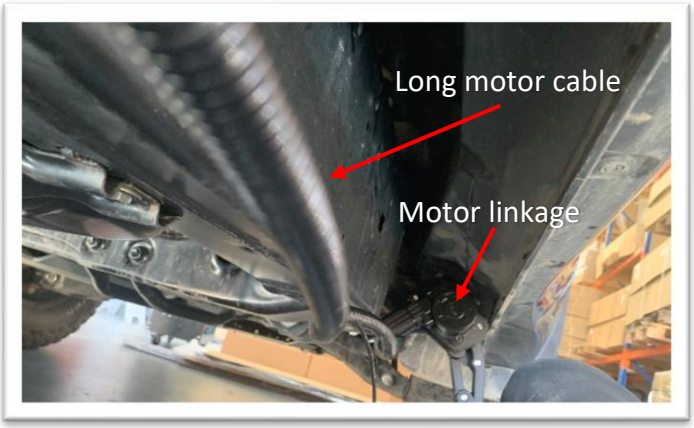
Step 13: Route the Long motor cable from the Controller mounting bracket side of the vehicle to the other side frame rail. When routing the harness keep clear from any moving parts and avoid direct contact with the exhaust system.



Step 13

Step 14: Route the Long motor cable along the frame rail of the vehicle connecting the 2x Motor connectors to the 2x Motor linkages on the passenger side. The connectors and plugs are all labelled accordingly.

Step 15: Repeat Step 12 to install the LED lights, but this time for the passenger side of the vehicle.



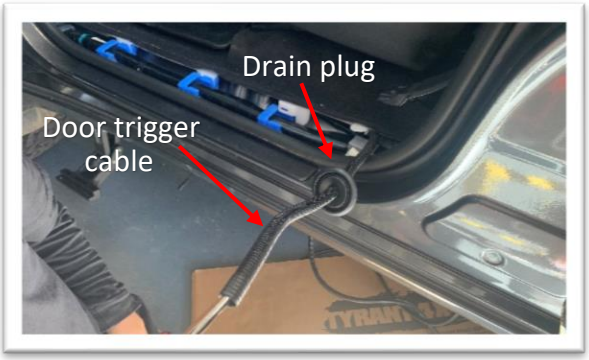
Step 14

INSTALLATION INSTRUCTIONS

Step 16: On the driver side, remove the front kick panel, front door sill trim panel, and b-pillar trim panel. Pull the front driver carpet back. Locate the rubber drain plug on the floorboard and remove it. Make a small X-cut using a razor blade.

Step 16

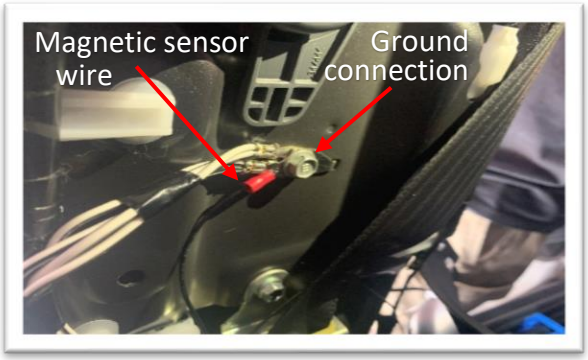
Step 17: Feed the Door trigger cable through the removed floorboard into the vehicle. Feed the wires through the x-cut on the rubber drain plug. Reinstall the drain plug back into its original position in the floorboard.



Step 17

Step 18: Route the driver side brown door trigger wire towards the driver side b-pillar. Route the black disable switch wires to the center console. Route the white door trigger wire behind the center console and over to the passenger side b -pillar.

Step 19: The Magnetic sensor will need a ground connection to the vehicle. Install the Magnetic sensor wire under the factory ground stud located on the driver side b-pillar.



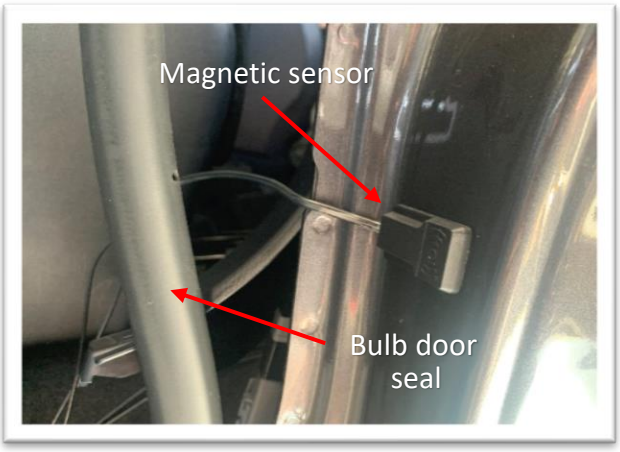
Step 19

Step 20: Connect the brown door trigger to the magnetic sensor's bullet plug.

Step 20

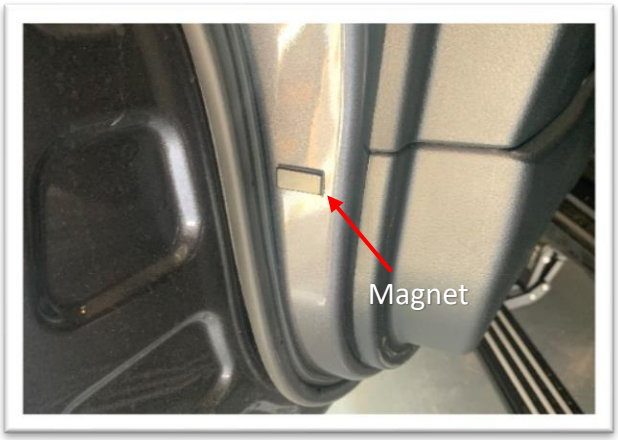
INSTALLATION INSTRUCTIONS

Step 21: Position the Magnetic sensor on the front driver side door jamb where the slight indent is located when pulling back the bulb door seal. Lift the bulb door seal to route the sensor wire underneath it into the indent. Clean surface where the sensor will go. Once the surface is completely dry peel the backing from the double-sided tape and stick the Magnetic sensor on.



Step 21

Step 22: Align the magnet on the outer edge of the driver door so that it contacts the sensor when the driver door is closed. Clean surface where magnet will go. Once the surface is completely dry, peel the backing from the double-sided tape and stick the magnet to the door. (When door is closed the magnet and sensor MUST be contacting each other)



Step 22

Step 23: Repeat steps 21 and 22 to install the Magnetic sensor and magnet for the driver side rear door and make sure the Magnetic sensor and magnet contact each other when door is closed.

Step 24: Repeat steps 19-23 to install the passenger side door Magnetic sensors and magnets. The driver side magnetic sensor is connected to the white wire that was routed under the carpet to the driver side b-pillar in step 18.

Once all the wiring and magnetic sensors are done put the kick panel, front door sill trim panel, b-pillar trim panel and bulb door seal back into their positions to neatly hide all wiring.

INSTALLATION INSTRUCTIONS

Step 25: Plug the disable switch into the black wire socket from the Door trigger cable that was routed under the carpet to the center console in step 18.

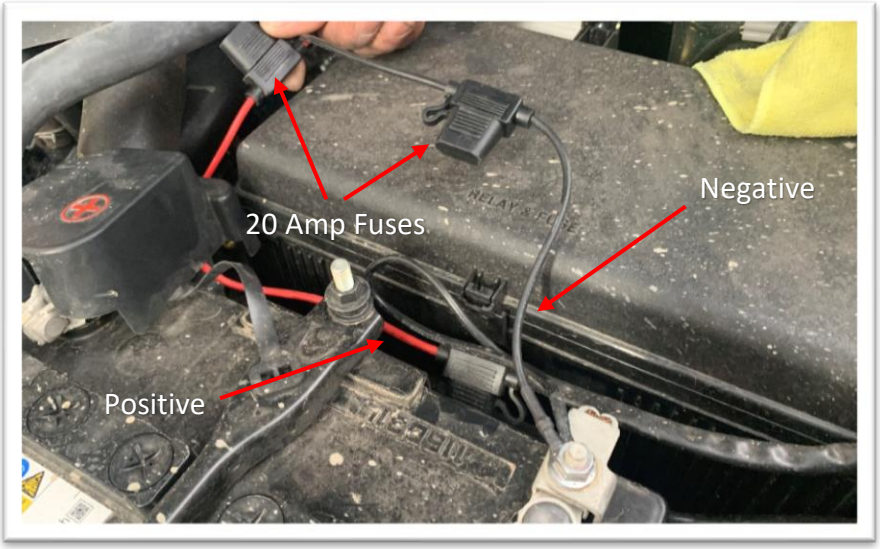
Step 25

Step 26: Clean the surface of the lower dash panel console where the disable switch will go (See picture for recommendation). Once the surface is completely dry, peel the backing from the double-sided tape and stick the disable switch on. Tuck the wire behind the center console trim panel.

Step 26

INSTALLATION INSTRUCTIONS

Step 27: Remove the 20 Amp fuses from the main positive and negative 12V power leads on the Engine cable. Route the power wires over the wheel well and into the engine compartment. Connect the negative ring terminal to the ground stud next to the battery. Connect the positive ring terminal to the positive battery posts.



Step 27

Step 28: Install the 20 Amp fuses back on the main negative and positive 12V power leads of the main power harness.

Step 29: Connect the battery. Begin with the positive terminal, followed by the negative terminal. (If you had disconnected the battery back in step 1)

Step 30: Open and close all four doors to test the operation of your new Tyrant 4x4 Running Boards. There should only be a slight delay for the running boards to extend and retract after the doors are opened and closed respectively.

Step 32: Once everything is set up and working neatly cable tie any extra length wires together and the controller assembly wiring to the chassis of the vehicle, so everything is neat, tidy and secured.

Step 32: If you wish to disable the running boards flip the disable switch to the “O” or OFF position. This will signal the running boards to retract to the stowed position and will disable any further operation until the switch is flipped to the “I” or ON position.

CONCLUDES INSTALLATION

That concludes the installation of the Tyrant 4x4 Running Boards for your Toyota Land Cruiser. We thank you for choosing Tyrant 4x4 and we hope you enjoy your new Running Boards. Any questions or queries please feel free to contact us.

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