

# INSTALLATION MANUAL

# 3025104

## Level of Difficulty

Moderate

**This is the first of two manuals required to complete this installation. The second manual is included with your side bars / running boards.**

## Parts List

6	Mounting bracket, universal
6	T-rails
12	Clip nut, M8
12	Hex bolt, M8 x 25mm
24	Flat washer, M8
12	Lock washer, M8
12	Nylock nut, 5/16"
2	Rubber grommet
4	Door sensor
2	Door sensor extension
4	Magnet
2	Alcohol wipe
1	Power switch
1	Circuit board
1	Anti-seize
1	Wire loom
1	Wiring harness, two-piece
2	LED light
2	LED light bracket
4	Double-sided foam tape, 3/4" x 3/4"
8	Double-sided foam tape, 1/2" x 1/2"

\* Running boards sold separately

## Tools Required

Ratchet	Drill
Socket set	Drill bit set
Zip ties	Level

## ⚠ WARNING

Improper electrical installation may result in personal injury. Unless you are familiar with the installation and handling of electrical systems, have this step performed by someone who has that familiarity.

## ⚠ CAUTION

If the step fails to actuate completely (open or closed), do not attempt to force the step open or close. Applying force in this condition will damage the product and void your warranty. Refer to the troubleshooting guide on the last page of the instruction manual to resolve potential issues.

## Product Photo



## Notes and Maintenance

Before you begin installation, read all instructions thoroughly.

Proper tools will improve the quality of installation and reduce the time required.

No maintenance required on waterproof harness or water-resistant motors.

If mud or dirt is built up on the steps, simply spray them off and let them air dry.

Mild automotive detergent may be used to clean the product. Do not use dish detergent, abrasive cleaners, abrasive pads, wire brushes or other similar products that may damage the finish.

Periodic inspection of all wires and connections should be performed to ensure there is no visible damage or loose connections.

Refer to the table below when securing hardware during the installation process to help prevent damage to the product or vehicle.

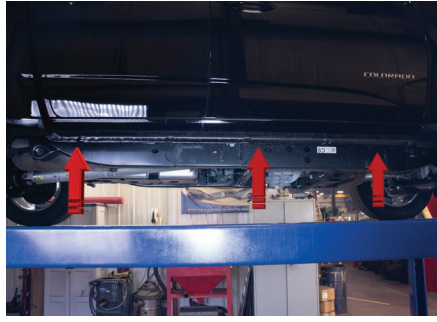
## Torque Specifications

Metric	M6 bolt	3 ft.-lbs.	SAE	1/4" bolt	3 ft.-lbs.
	M8 bolt	7 ft.-lbs.		5/16" bolt	7 ft.-lbs.
	M10 bolt	16 ft.-lbs.		3/8" bolt	16 ft.-lbs.
	M12 bolt	28 ft.-lbs.		7/16" bolt	20 ft.-lbs.

Use above torque setting unless otherwise noted

### Step 1

Starting on the driver side, locate the three mounting locations underneath the vehicle.



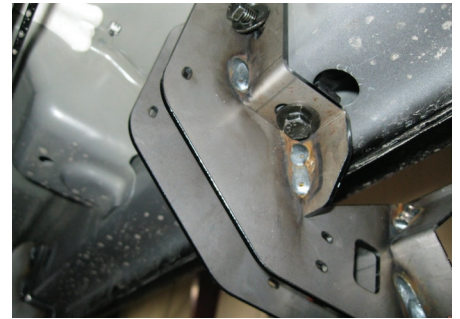
### Step 2

Starting at the front driver-side mounting location, remove two hole plugs.

Insert an M8 clip nut through the access hole and align it over the adjacent smaller hole. Insert a second clip nut over the lower mounting tab.

Place the driver-side front mounting bracket onto the vehicle and secure with two M8 hex bolts, lock washers and flat washers.

Snug the hardware, but do not fully tighten.



### Step 3

Repeat step 2 for the middle and rear brackets.

Repeat this entire process on the passenger side of the vehicle.

**Note:** To complete the installation, refer to the manual included with your side bars / running boards.

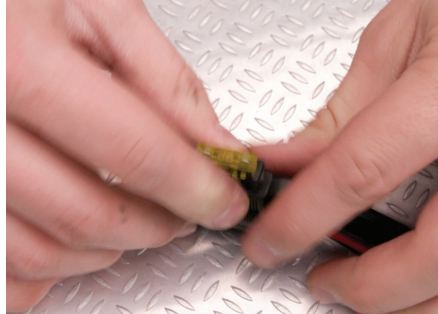
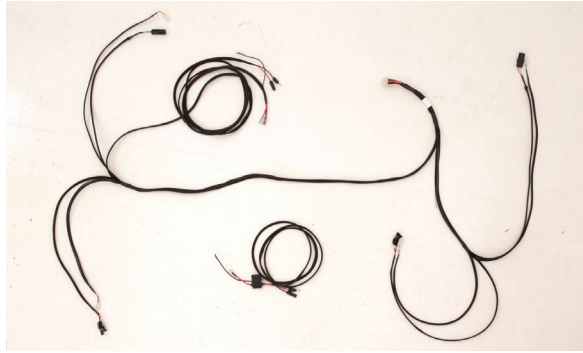


#### Step 4

Remove the fuse from the wiring harness before installing.

Once the fuse is removed, take that section of the wiring harness and attach it to the battery. Route the opposite end of the harness through the firewall into the cab of the vehicle.

Zip-tie the wiring harness in place once it is in the desired location.



#### Step 5

Remove the front and rear door trim panels on both sides of the vehicle.

**Note:** Remove any other vehicle components that could interfere with the wiring harness.



## Step 6

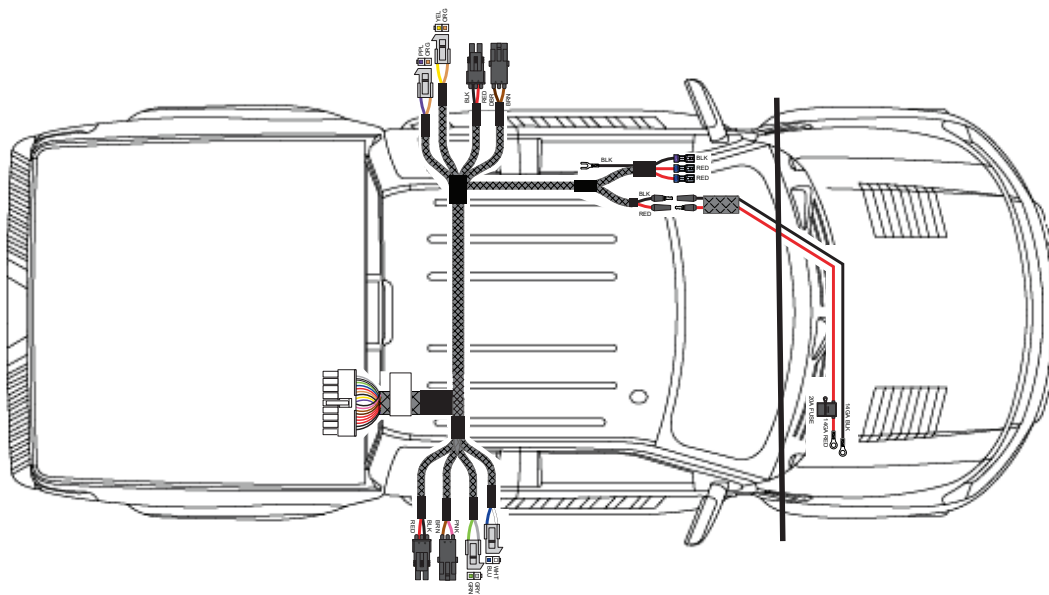
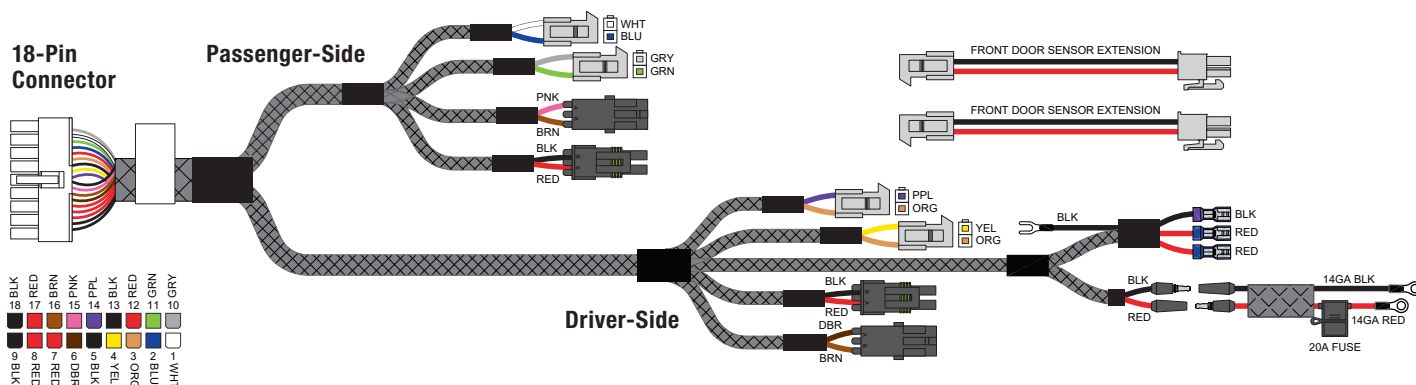
Once the trim panels are removed, take the second section of wiring harness and route it under the carpet, through the vehicle, from the passenger-side rear to the desired location.

Refer to the diagrams below.



## Wiring Locations

Driver	Door sensor, rear	Purple / Orange
	Door sensor, front	Yellow / Orange
	LED light	Brown / Dark brown
	Actuator	Black / Red
Passenger	Door sensor, rear	White / Blue
	Door sensor, front	Grey / Green
	LED light	Pink / Brown
	Actuator	Black / Red





### Step 7

On the driver side, take the power wire and sensor wire (orange / yellow) and route it to the front of the vehicle underneath the carpet.

If there is no plug in the floor behind the driver seat, skip to step 10.

If there is a plug in the floor behind the driver seat, take the driver-side rear actuator (red / black) and the LED light (brown / tan) and route it through the floor plug behind the driver seat.



### Step 8

On the passenger side, take the sensor wire (gray / green) and route it to the front of the vehicle underneath the carpet.

Take the passenger-side rear actuator (red / black) and the LED light (pink / tan) and route it through the floor plug behind the driver seat.



### Step 9

With the rear wires inserted through the floor hole, cut a slot in the floor plug and re-insert it into the hole.

Proceed to step 12 to continue the installation.

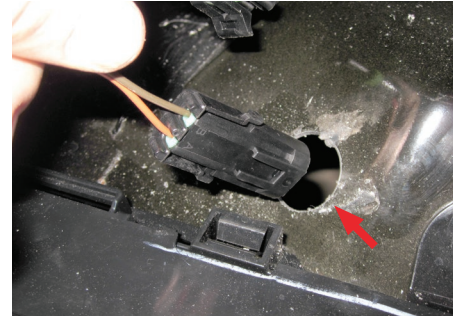


### Step 10

If there is no plug in the floor behind the driver seat, locate a position close to the rear bracket and drill a 1" hole through the floor of the vehicle.

**WARNING:** Make sure there are no obstructions in the drilling location.

Once the hole is drilled, take the driver-side rear actuator (red / black) and the LED light (brown / tan) and route it down through the floor. Secure in place with the provided rubber grommet.



### Step 11

On the passenger side, take the sensor wire (gray / green) and route it to the front of the vehicle underneath the carpet.

Take the passenger-side rear actuator (red / black) and the LED light (pink / tan) and route it through the floor plug behind the passenger seat. If there is no plug in the floor behind the passenger seat, repeat step 10 on the passenger-side of the vehicle.





## Step 12

Plug the door sensor into the wiring harness and route it up the door frame, under the carpet.

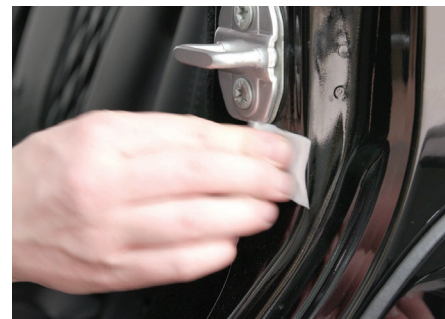
**Note:** If installing a door delete switch, refer to part #3020000-INS at this time.

Once the harness and sensor are routed to the desired locations, wipe the sensor and door with the provided alcohol wipe. Place two pieces of 1/2" x 1/2" double-sided tape on the sensor and attach the sensor to the vehicle.

**Note:** On extended cab vehicles, the magnet and door sensors will need to be mounted on the hinged side of the door. Depending on the vehicle the sensor extension harnesses may need to be used. Check for any interference by closing the door before permanently mounting magnets and sensors.

Repeat this process for the other three doors.

**DISCLAIMER:** Use of the door delete switch (part #3020000) requires manual operation of the boards. Failure to retract the boards when operating the vehicle could result in damage to the boards or vehicle.

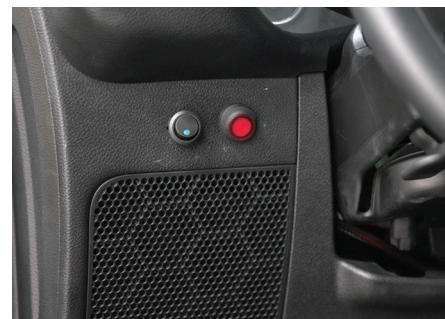
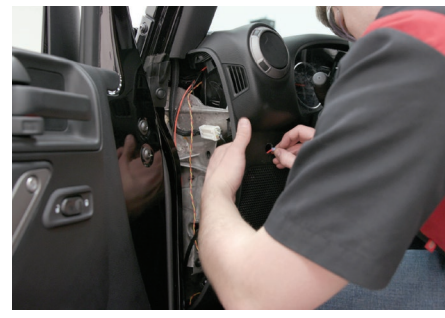


## Step 13

Locate a spot to install the power switch. Drill a hole in the panel with a 3/4" drill bit and wire into place.

**WARNING:** Confirm there are no wires behind the panel prior to drilling.

**IMPORTANT:** Connect the two red wires to the silver terminals and the black wire to the bronze terminal.



#### Step 14

Locate a suitable location to connect the ground wire for the LED on the switch behind the dash panel.



#### Step 15

Once all wiring is installed, plug in the circuit board and place it underneath the carpet in a suitable location. Ensure the control module will not interfere with seat movement after install.

**Note:** To complete the installation, refer to the manual included with your side bars / running boards.



#### Product Registration


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# TROUBLESHOOTING

Condition	Possible Cause	Possible Solutions	Additional Information
Boards do not open when the door is opened	Power switch is off	Confirm that the main power switch is in the on position and has power.	--
	Poor battery connection	Confirm the positive and negative connection on the battery are secure.	--
	Fuse is blown or removed	Confirm that the fuse is plugged in and not blown.	--
	Control module not connected	Confirm that the control module is plugged in.	--
	Board not connected	Confirm that the board connections are plugged in and secure.	--
	Door sensors not connected	Confirm that the door sensors are plugged in.	--
	Bad motor	Replace the board.	To check the motor function, apply 12 volts directly to the motor leads. If the board does not open, swap the leads and try again. If the board opens, the motor is good and swapping the leads back will cycle the board closed.
	Faulty control module	Replace the control module.	In rare cases, the programming of the control module may be faulty. Replace if the control module is receiving power but the boards are not functioning properly.
Boards open with the front/rear door, but not the other	Door sensor disconnected	Confirm that the door sensor is plugged in.	--
	Bad door sensor	Replace the sensor.	To check for a bad sensor, disconnect the sensor and check for continuity with a multi-meter. The sensor is normally a closed switch and should have continuity without the magnet present and should not have continuity when the magnet is placed near the sensor.
Board is open and will not close	Magnet misalignment	Adjust the magnet position.	Disconnect both sensors and the board should close. Connect only one door sensor and test. If the board closes, the alignment for that door is good. Connect the second sensor and repeat.
	Bad door sensor	Replace the sensor.	To check for a bad sensor, disconnect the sensor and check for continuity with a multi-meter. The sensor is normally a closed switch and should have continuity without the magnet present and should not have continuity when the magnet is placed near the sensor.
Boards squeak when opening/closing	Metal on metal contact	Apply graphite lubricant to all pivot points. 	If excessive squeaking still occurs, check for worn out bushings or obvious areas of metal on metal contact.
LED light does not turn on when the step is open	LED not connected	Confirm that the LED connection is plugged in and secure.	--
	Faulty LED	Inspect the LED and wiring harness for damage.	To test LED functionality, apply 12 volts directly to the LED. If the LED will not turn on when directly connected, it will need to be replaced.
Boards function opposite to how they should (door open board closed, door closed board open)	Incorrect sensors	Replace the sensors.	To check for an incorrect sensor, disconnect the sensor and check for continuity with a multi-meter. The sensor is normally a closed switch and should have continuity without the magnet present and should not have continuity when the magnet is placed near the sensor.
	Motor harness polarity reversed	Replace the board.	If sensors are confirmed to be correct (normally closed) and board still operates in reverse, the motor electrical harness may be reversed.
After quick succession of cycling the boards multiple times, the boards no longer open.	A programed safety limit has been reached.	Using the main switch, power off the boards for 5-10 seconds and turn back on. The boards should cycle when turned back on.	The LED will flash 8 times when this issue occurs.
Boards do not open when both front and rear doors are opened simultaneously	Software limitation	Close the doors and open them individually.	A software limitation will prevent the boards from opening if both the front and rear door are opened simultaneously. Closing the doors and opening them one at a time will reset the board.