

INSTALLATION MANUAL

3025123

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

Level of Difficulty

Easy

Parts List

2	Mounting Bracket, front
4	Mounting Bracket, center/rear
12	Hex bolt, M10
12	Flat washer, M10
12	Lock Washer, M10
6	T-Rail
12	Lock nut, 5/16
12	Flat washer, 5/16
2	Led light bracket

Tools Required

Ratchet	Drill bit, 3/4"
Torque wrench	Wrench, 16mm
Socket set	Phillips screwdriver
Socket extension	Flathead screwdriver
Wrench set	Level
Drill	Thread-set tool
Allen wrench	Utility knife

Torque Specifications*

Metric	M6 bolt	3 ft-lbs.
	M8 bolt	7 ft-lbs.
	M10 bolt	16 ft-lbs.
	M12 bolt	28 ft-lbs.
SAE	1/4" bolt	3 ft-lbs.
	5/16" bolt	7 ft-lbs.
	3/8" bolt	16 ft-lbs.
	7/16" bolt	20 ft-lbs.
	1/2" bolt	28 ft-lbs.

Use above torque setting unless otherwise noted

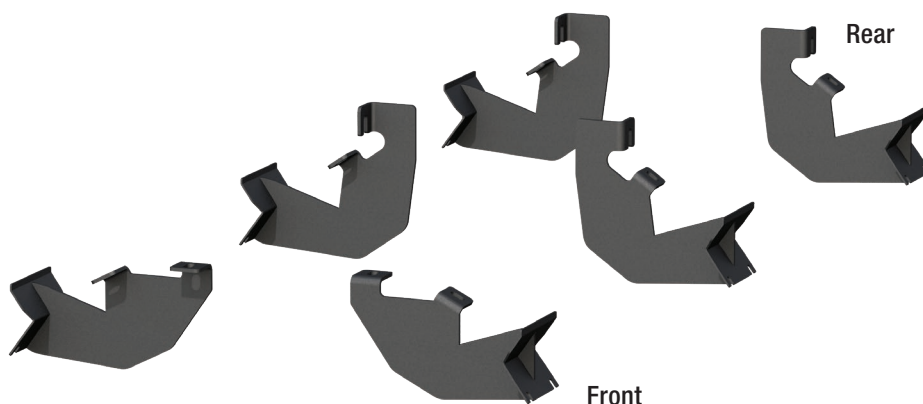
⚠ WARNING

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



NOTICE

Before you begin installation, read all instructions thoroughly.

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

To help prevent damage to the product or vehicle, refer to the specified torque specifications when securing hardware during the installation process.

Maintenance

To protect the product, wax after installing. Regular waxing is recommended to add a protective layer over the finish. Do not use any type of polish or wax that may contain abrasives that could damage the finish.

For polished, gloss and other smooth finishes, polish may be used to clear small scratches and scuffs on the finish.

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.

Product Registration and Warranty

CURT Group stands behind our products with industry-leading warranties. Provide feedback and help us to improve our products by registering your purchase at: warranty.curtgroup.com/surveys

Step 1

Starting on the driver side, locate the mounting locations underneath the vehicle and remove the plastic hole plugs.

NOTICE

Some brackets are specific to a mounting location. Refer to the product image on page one for correct locations.



Step 2

Starting at the front driver-side mounting location, install the front mounting bracket using two M10 bolts, lock washers and flat washers.

Snug the hardware, but do not fully tighten.



Step 3

At the middle mounting location, install the middle / rear bracket using two M10 bolts, lock washers and flat washers.

Snug the hardware, but do not fully tighten.

Repeat this step for the rear mounting location.

Repeat steps 2 through 3 on the passenger side of the vehicle.

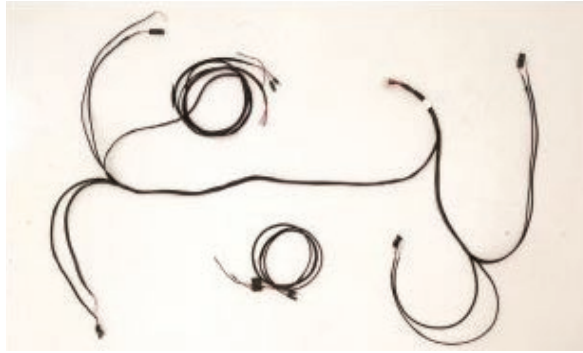


Step 5

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 6

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

NOTICE

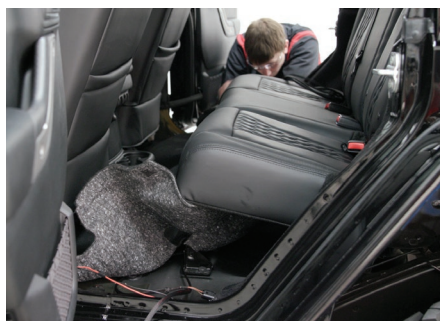
Remove any other vehicle components that could interfere with the wiring harness.



Step 7

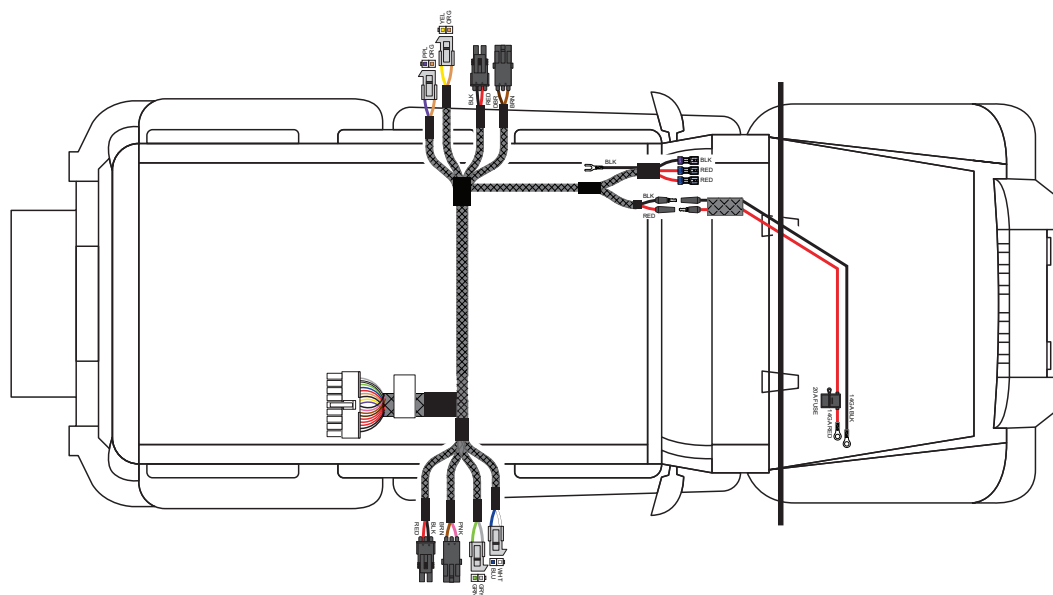
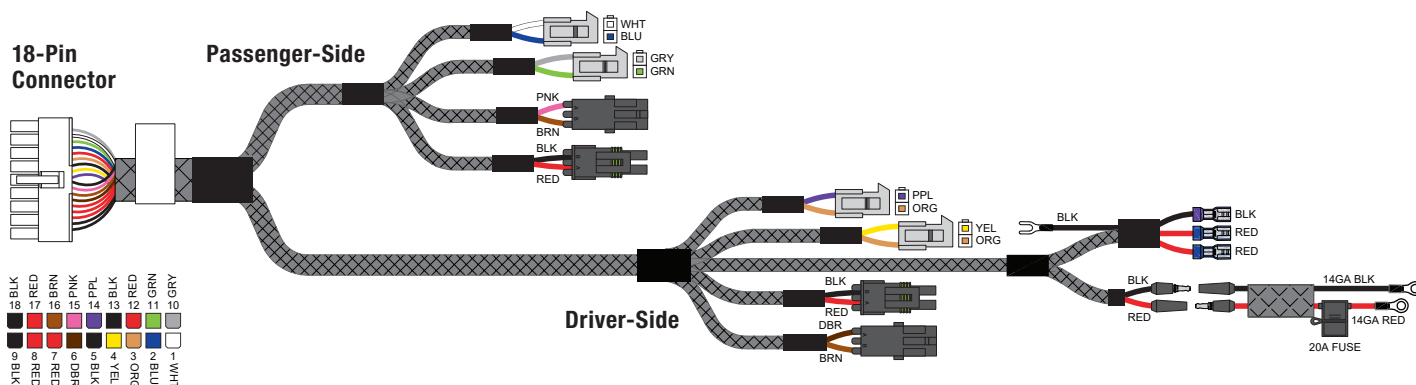
Once the trim panels are removed, take the second section of wiring harness and route it under the carpet, through the vehicle, from the passenger-side rear to the desired location.

Refer to the diagrams below.



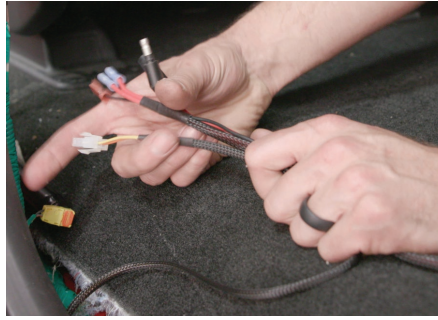
Wiring Locations

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



Step 8

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.



Step 9

Locate a position close to the rear bracket and drill a 1" hole through the floor of the vehicle.

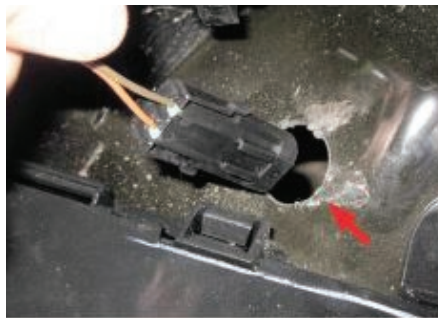
WARNING

Make sure there are no obstructions in the drilling location.

NOTICE

Locations pictured are only recommended drill locations, it is up to the installer to determine the best location to drill and ensure that there are no obstructions when drilling.

Once the hole is drilled, take the driver-side 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 10

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

Repeat step 9 on the passenger side of the vehicle.

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



Step 11

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

NOTICE

Depending on the vehicle, you may need to use the supplied sensor harness extensions for the two front door sensors.

Once the harness and sensor are routed to the desired location, 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.

Repeat this process for the other three doors.



Step 12

Place the magnet on the door so it lines up with the sensor. Do not secure at this time.

NOTICE

For vehicles with aluminum door panels use masking tape or scotch tape to temporarily hold magnets in place.

Complete the installation and test the functionality of the system. If the system functions normally mark the location of the magnets and secure with the 3/4" x 3/4" double-sided tape.

NOTICE

If the system does not function, or the boards open and do not close, a magnet is likely misaligned. To test, disconnect the front door sensor and adjust the magnet on the rear door until the system functions. Once the magnet is aligned, mark and secure the magnet, and repeat for the front door.



Step 13

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

WARNING

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

NOTICE

Locations pictured are only recommended drill locations, it is up to the installer to determine the best location to drill and ensure that there are no obstructions when drilling.

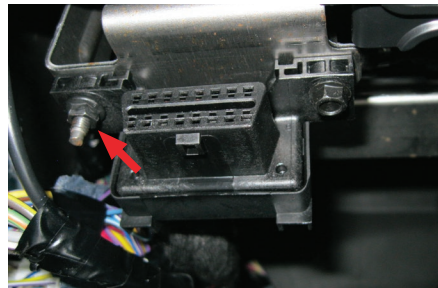
NOTICE

Be sure to plug 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.



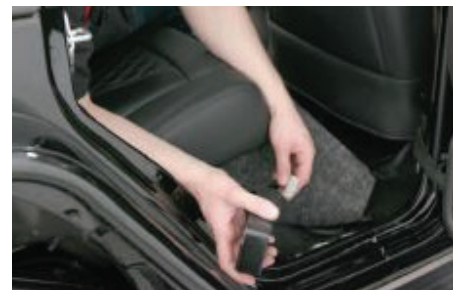
Step 15

Once all wiring is installed, plug in the circuit board and place it underneath the carpet under the rear passenger seat.


Ensure that the circuit board is in a location where it will not interfere with rear folding seats or anything else in the vehicle.

NOTICE

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



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.