Installation Instructions

3025183

Level of Difficulty

Moderate

This is the second of two manuals required to complete this installation. The first manual is included with your mounting brackets.

Parts List

1	Driver / left ActionTrac™ powered running board
1	Passenger / right ActionTrac™ powered running board

Attachment hardware is supplied with the mounting brackets. Hardware quantities will vary depending on the vehicle application.

Tools Required

Ratchet	Drill
Socket set	Drill bit set
Zip ties	Level

Torque Specifications

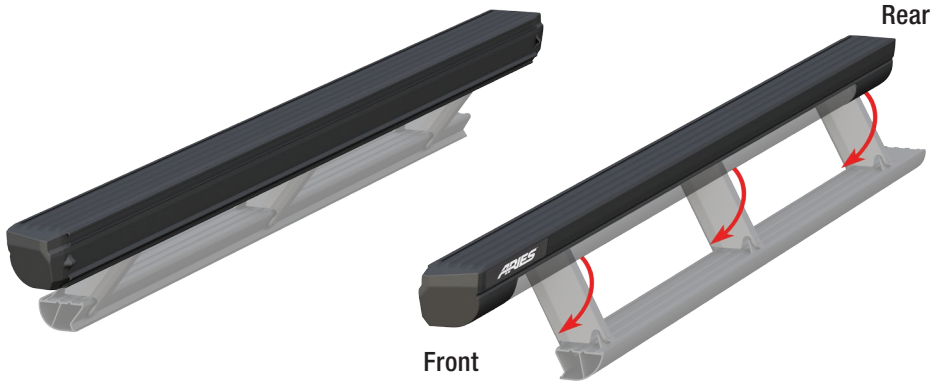
Metric	M6 bolt	3 ft-lbs.
	M8 bolt	7 ft-lbs.
	M10 bolt	16 ft-lbs.
	M12 bolt	28 ft-lbs.
SAE	1/4" bolt	3 ft-lbs.
	5/16" bolt	7 ft-lbs.
	3/8" bolt	16 ft-lbs.
	7/16" bolt	20 ft-lbs.
	1/2" bolt	28 ft-lbs.

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.

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.

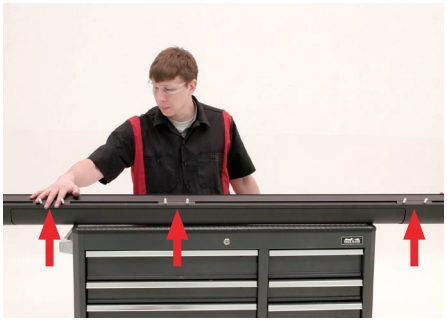
Periodic inspection of all wires and connections should be performed to ensure there is no visible damage or loose connections.

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

Step 1

With the driver-side brackets installed, take the driver-side running board and insert T-rails into the slot as shown. Position each T-rail as close to the mounting bracket location as possible.

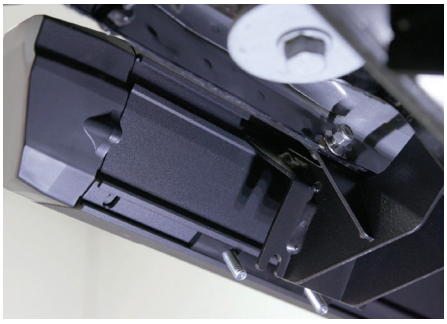
Note: The number of mounting brackets may vary based on application. Use one T-rail per bracket.



Step 2

With help, carefully place the running board onto the mounting brackets.

Align the T-rails with the mounting brackets on the vehicle. Slide the top mounting track on the board over the top flange on each bracket. Adjust the T-rails in the lower track of the board so the studs drop into the slots on the bottom of each mounting bracket.



Step 3

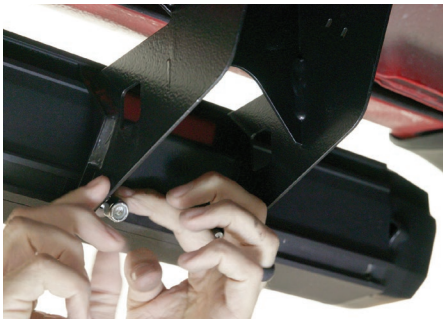
Secure the running board to the front mounting bracket using one 5/16" OR M8 flat washer and one 5/16" nylock nut on each T-rail stud.

Note: 5/16" and M8 are interchangeable sizes. Depending on the hardware supplied with your brackets you may use either size.

Repeat for the middle mounting bracket.

Before securing the rear mounting bracket, place an LED light bracket over one of the T-rail studs, as shown in the third image. Secure each T-rail stud with one 5/16" flat washer and one 5/16" nylock nut.

Snug the hardware, but do not fully tighten.



Step 4

At this time, adjust the running board to the desired location.

With the running board in position, it is recommended to tighten all brackets to the vehicle first, followed by the running board connections.

Repeat steps 1 through 4 on the passenger side.

Step 5

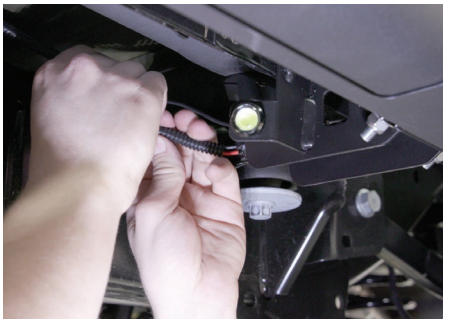
On the driver side, plug the rear actuator (red / black) into the running board and pull the extra wire back into the vehicle.

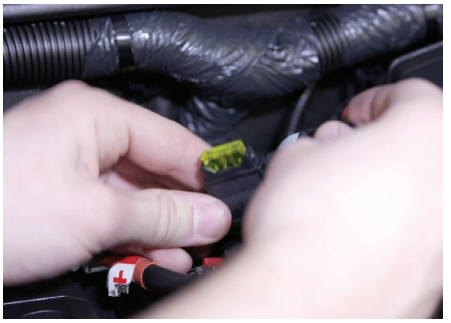
Plug the LED light wire (brown / tan) into the LED light and secure it to the mounting bracket tab with the supplied jam nut.

Once all the wiring is installed, cover the wires with slit loom for extra protection.

Repeat for the passenger side of the vehicle. See below for wiring call outs.

Attach the two wiring harnesses and re-install the fuse removed during initial wiring process.





Wiring Locations		
DS	LED light	Brown / Dark brown
	Actuator	Black / Red
PS	LED light	Pink / Brown
	Actuator	Black / Red

Step 6

With the wiring installation complete, test the boards by opening all doors to ensure proper function. If there are any issues with the board function refer to the 'Troubleshooting' section on the last page of this installation manual.

If the boards function properly, re-install all trim panels, carpet and other removed items.

Congratulations on the installation of your new ARIES ActionTrac™ powered running boards.

With the running boards installed, periodic inspections should be performed to ensure all mounting hardware remains tight.

To protect your investment, see the 'Notes and Maintenance' section on the first page of this instruction manual.

TROUBLESHOOTING

Troubleshooting	
I just installed my steps and they are not coming down when I open the door.	Double check the connections. Check the fuse to make sure it is plugged in. Is the on / off switch getting power? Is the circuit board plugged in? Are the door sensors plugged in?
My switch is getting power, but the light stays on in both positions.	The light is only supposed to be on when the system is turned on. If it is lit in both positions simply switch the red wires on the back. Will this kill my battery with the light constantly lit? This will not kill your battery unless you leave it lit for a month with no use.
Everything is plugged in and the switch is turning on and off, but the steps still won't deploy.	Two things may be causing this issue: Check the motor first. Simply unplug it from the wiring harness and apply external 12V power to the leads. One position will make them deploy. Switch the leads again to make them retract. If this works, plug the motor back into the harness. We test each and every motor that leaves our factory by hand along with assembling your step slider by hand. These may fail, but it is extremely rare after we send them after having tested them. If you test the motor and all you hear is a clicking sound but nothing happens, there is likely internal damage. Check the sensors. Unplug both of them from the wiring harness, and plug one back in. Manually test your sensors by putting a magnet really close (but not touching) to the sensor. Does it make the step retract? When the magnet is away, the step should deploy. If the steps deploy right after installation, more than likely your magnets just need to be aligned. Do this one by one with each sensor by the method above. Install one sensor, test, align the magnet on the door, test, and then mark the position of the magnet so if for some reason they do move out of place you can easily realign them. The sensors should have a label with MP###802 or MP###902.
I tested the motor, and it works. I checked the sensors individually, and the system still won't work. The steps don't deploy unless I do it manually with 12V power.	In rare circumstances, the circuit board that runs the system may be faulty.
I opened my door a bunch of times and the system just shut off. What happened?	Our systems have built-in protection against quick cycling like this to prevent damage. Simply turn your on / off switch to off, wait 5 seconds, and then turn it on again. This will reset the system and allow it to work normally again.
Everything is working now. But I want to take my doors off and have the steps still work.	We sell a door delete kit you can replace those sensors with. Part# 3020000 comes with everything you need for two doors. If you want to install a delete kit on the rear doors as well, you will need to purchase two kits.
My running boards are making squeaking and / or rubbing sounds.	Apply a dry, graphite powder lubricant on each pivot point.