

# ON-THE-FLY AUTOLEVELER INSTALLATION FOR ACTION TRACKCHAIRS



## GENERAL

The On-The-Fly AutoLeveler (AutoLeveler) by Motion Warriors™ is an after-market add-on intended to automatically self-level the seat on powered wheelchairs and other vehicles equipped with seat tilt motors.

## IMPORTANT INFORMATION

Before you install or begin using this product, all persons responsible for fitting, adjustment, and daily use of the AutoLeveler must:

- Read and understand the installation and operating instructions in this document
- Read and understand the warranty and safety information provided with your product
- Maintain our products according to our instructions for care and maintenance

Failure to adhere to instructions and warnings may result in property damage, injury, or death. Product misuse due to failure to follow the following instructions or tampering with the security labels or serial number on the product will void the warranty. Immediately discontinue use if any function is compromised or parts are missing, loose, or show signs of excessive wear. Consult with your supplier for repair, adjustment, or replacement.

These installation instructions are written with the expressed intent of use with standard configurations. All information, pictures, illustrations, and specifications are based on the product information that was available at the time of printing. Pictures and illustrations shown in these instructions are representative examples and are not intended to be exact depictions of the various parts of the product. If this document contains information you do not understand, or there are concerns about safety or operation, contact your supplier. For further assistance, or more advanced applications, please contact your supplier or Motion Warriors at (623) 232-3853.

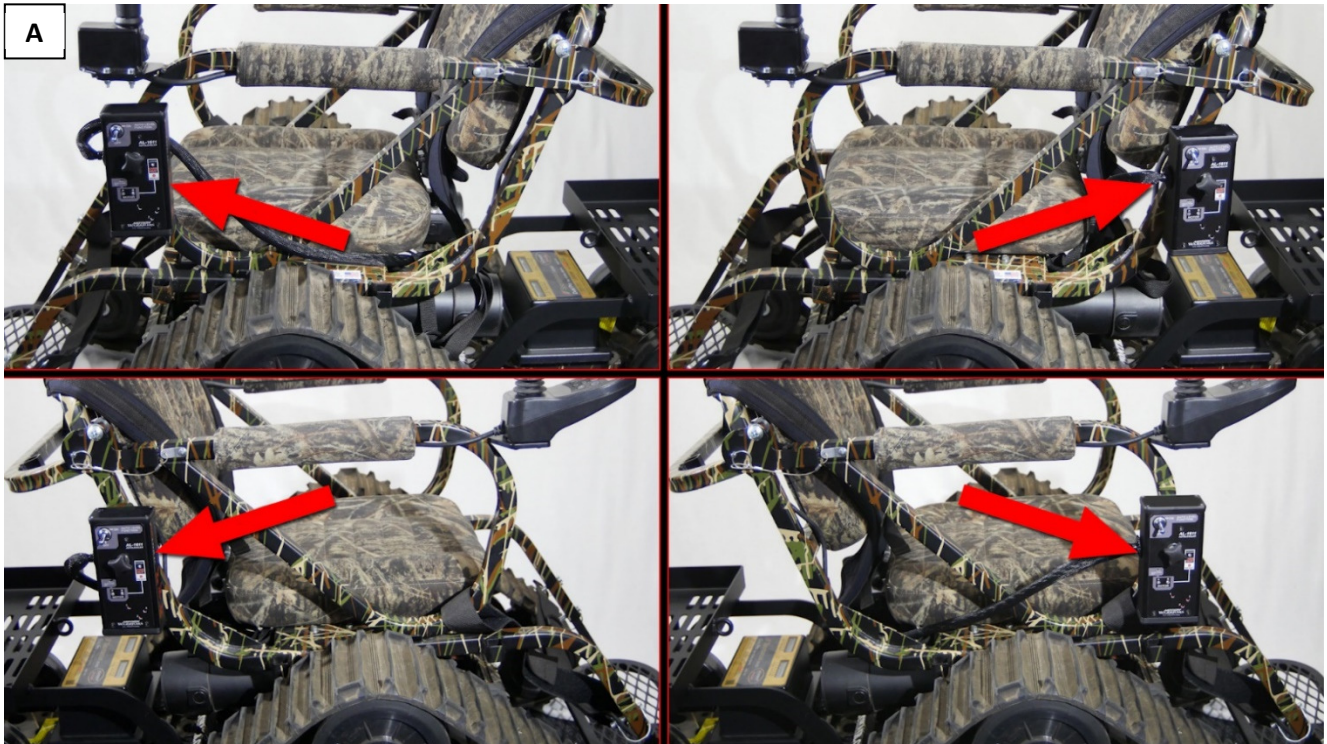
## FEATURES



## INSTALLATION

The AutoLeveler should be installed with the chair on a level surface, and initial testing of its operation should be done in an open area free of obstacles until the user is fully capable of driving safely.

The AutoLeveler can be mounted on either side but must have room to pivot, with adequate clearance in all directions. We recommend one of the locations shown here (A). Positioning the AutoLeveler may depend on whether you want it near the joystick or manual seat tilt switch, or toward the back of the chair to keep it out of the way of other accessories. The rest of these instructions use the first location shown.

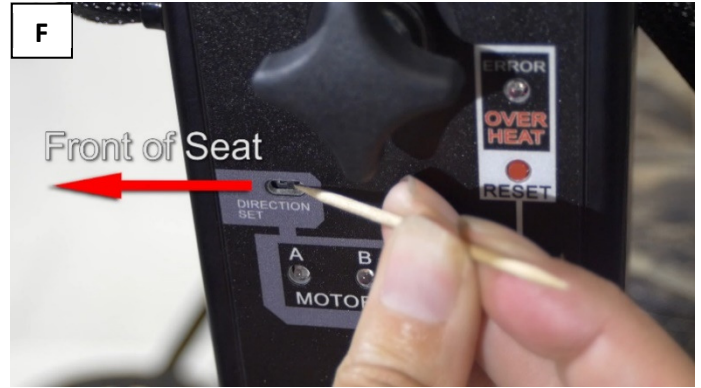


### 1) ATTACH THE AUTOLEVELER TO THE CHAIR

Attach the AutoLeveler clamp to the side of the chair frame (perpendicular to the chair) with the center screw hole facing out (B). Be sure the screws are tightened so the clamp does not slip. Placing the two washers provided between the clamp and the AutoLeveler (C), attach the AutoLeveler to the clamp using the star knob (D); the knob does not need to be tightened fully at this time.



Flip the ON/OFF switch down to the OFF position (E) and use a toothpick to carefully set the Direction switch toward the front of the chair (F). THIS SWITCH SETTING IS CRITICAL FOR PROPER OPERATION. If it is set in the wrong direction, the seat motor will move in the opposite direction and will not be able to level the seat.

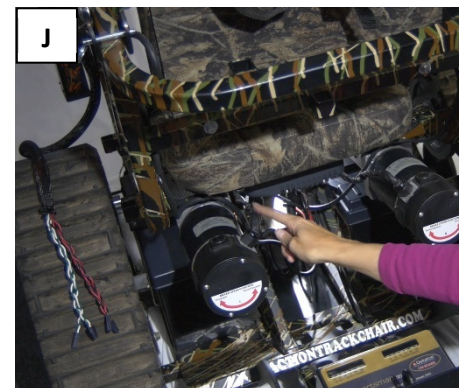
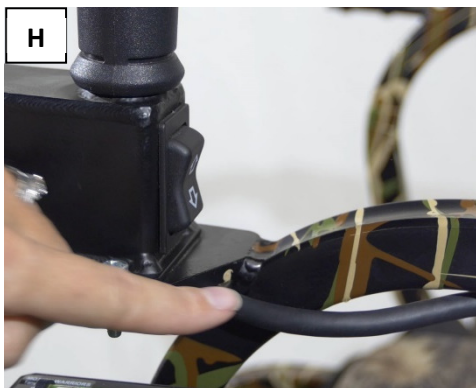


## 2) CONNECT THE AUTOLEVELER CABLE TO THE CHAIR MOTOR

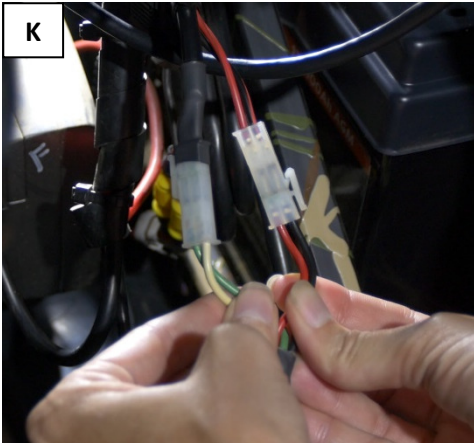
Using the chair's manual seat tilt switch, tip the seat forward until the footrest touches the floor (G), then power the chair off.



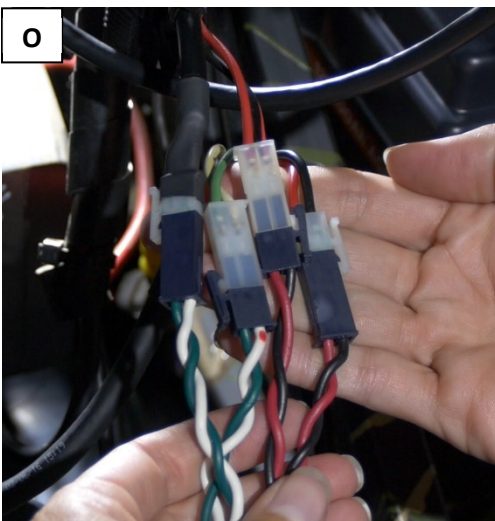
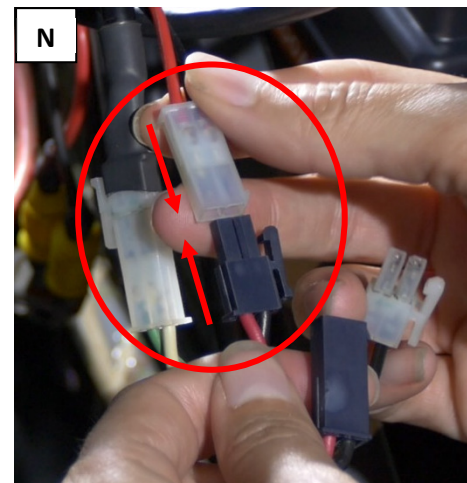
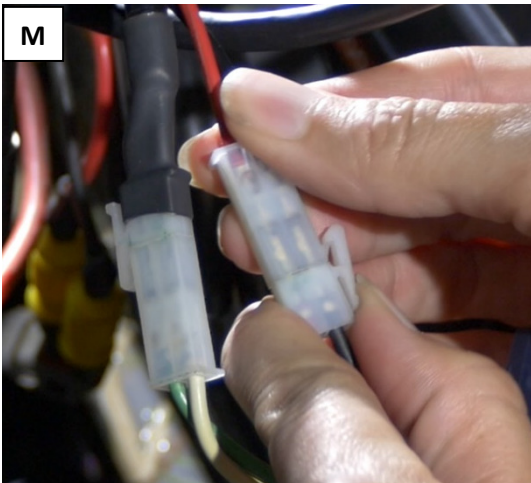
Follow the chair's manual tilt switch cable to the back of the chair and under the seat (H-J). You can follow it from the tilt switch, along the arm rest, down the frame, to the back and under the seat.



At the end of the cable you'll find a red & black cable and a green & white cable (**K**), which attach to the chair's seat tilt motor. Route the AutoLeveler cable around to the back of the chair to where these motor cables are located (**L**).



Unhook the connector on the red & black cable by pressing the release latch (**M**). Hook together the connectors from the AutoLeveler's red & black cable to the chair's red & black cable, matching male to female and female to male (**N**). (NOTE: a spark or pop when connecting the cables is normal and harmless.) Repeat this process for the green & white cables (**O**). Coil the cable in a place where it won't be pinched by the chair tilting or caught in the wheels.



### 3) SET THE SEAT'S NEUTRAL POSITION

Power the chair back on and use the chair's manual seat tilt switch to relevel the seat (**P**). With the occupant in the chair, use the chair's manual tilt switch to make any additional adjustment to set the desired chair position for the occupant (**Q**). Note: the more the neutral position is off from the center of the chair's tilt range, the less the AutoLeveler will be able to adjust the tilt motor in that direction.



Loosen the star knob on the AutoLeveler, rotate the AutoLeveler until both A and B motor lights go out (**R-T**), then retighten the knob.



### 4) ENGAGE THE AUTOLEVELER

Flip the ON/OFF switch up to the ON position to engage the AutoLeveler (**U**). Operate the vehicle normally, observing how the AutoLeveler activates the tilt motor in response to changes in terrain. To return to the vehicle's chair tilt controls, flip the toggle switch down to OFF.

