

## ***Axillary Twist Throttle for Aventon Adventure Ebike***

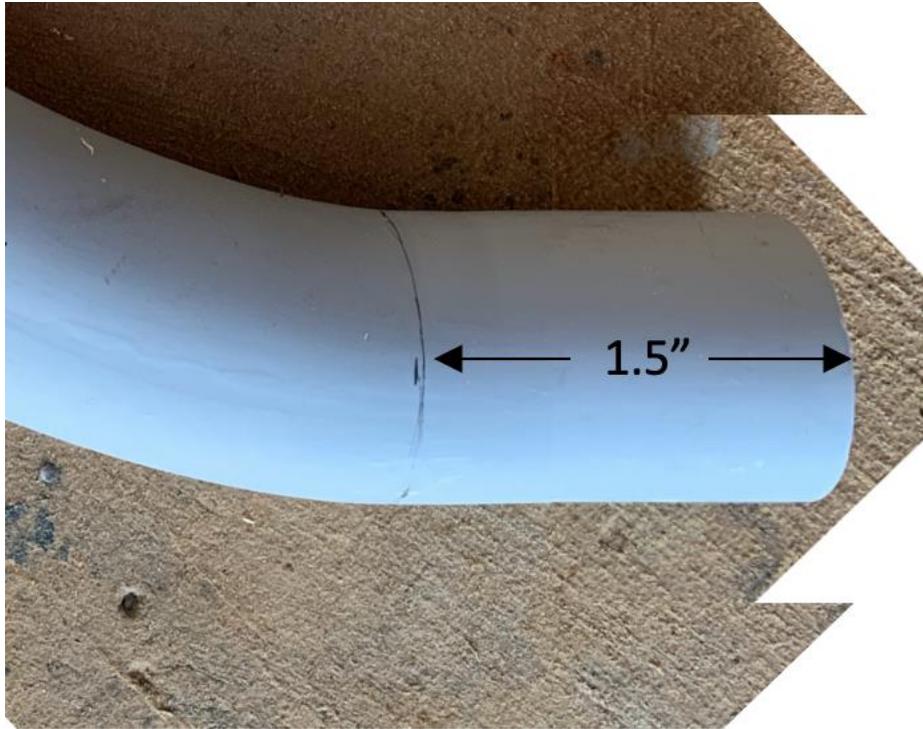
This paper describes how to make a simple axillary twist throttle for your Aventon Adventure ebike. The device fits over the left handlebar grip and engages the existing thumb throttle.



An arm on the axillary grip throttle engages the bike's thumb throttle. The spring in the thumb throttle will help rotate the axillary throttle.



The handgrip on the Aventon Aventure is 1.25" in diameter. Get a piece of conduit with an internal diameter of 1.5". This size difference will permit you to rotate the conduit over the ebike's rubber grip.



Cut a 1.5" piece of conduit. Be sure that the piece is perfectly straight.



Cut the piece of conduit down each side. I chose to create a wavy line to provide greater strength when the two halves are rejoined over the bike's handlebar grip.



Now you must create the arm that will press the grip throttle when the device is twisted. The raised end of the original piece of conduit worked well for this purpose.



You must glue a piece of scrap conduit to the top of the arm to give it the right height and length to reach the thumb throttle.



Here's the material I used to wrap around the axillary grip throttle. One side has non-slip material, the opposite side has an adhesive backing. When applied, it holds the two halves of the axillary grip together, while simultaneously providing an excellent grip surface.



Here's how the axillary grip throttle looks when installed. When using the device, the arm of the axillary twist throttle rests on top of the thumb throttle.



When not in use, you should slide the axillary grip throttle to the left. This will separate the arm from the thumb throttle.



The axillary twist throttle device is easy to use. It eliminates thumb fatigue and discomfort during long rides.