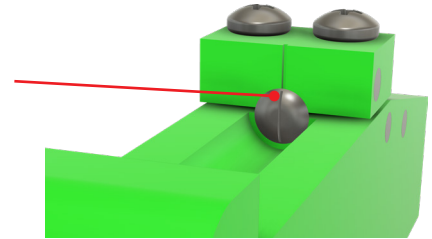


Turbo Bender Instructions

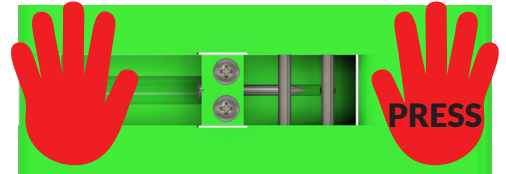
1

Loosen the top nut bolts and insert the axle, align the tuning groove with reference line. Firmly tighten the bolts in the top nut to secure the axle in place.



2

Lay bender on a flat surface, place the palm of one hand over handle, opposite the axle, and another on the other end. Press down firmly until the cross bar in the handle touches the adjustment/stop bolt.

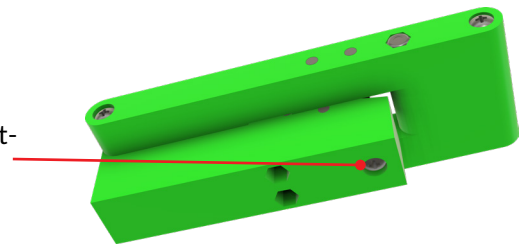


3

Loosen the top nut bolts and remove the axle.

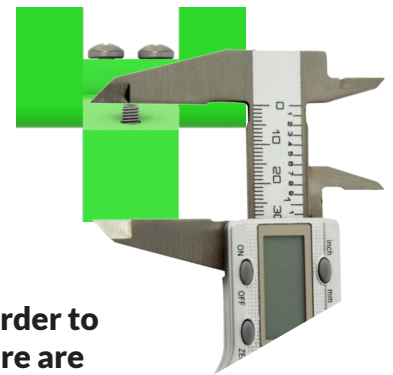
4

To adjust the amount (angle) of bend tighten or loosen the adjustment bolt. Tighten the bolt for less bend, loosen for more.



5

Once the bender is adjusted to the desired bend angle, use a set of digital calipers to measure how far the adjustment bolt protrudes out of the bender base. Use the bottom of the bender as the reference point. Make note of the measurement so you can easily return to it if you choose to make future adjustments to the bend angle.



The Turbo Bender is designed to work in concert with Turbo Jigs in order to ensure proper front to back alignment on a Pinewood Derby car. Here are settings/measurements for some of the most popular axles when using a Turbo Jig to drill the axle holes:

BSA stock axles: .802 - .805

Turbo Axles (stainless steel): .812 - .815

Bend in degrees measurement guidelines:

Stock BSA axles:

1 degrees = .845

2 degrees = .835

4 degrees = .815

6 degrees = .800 (factory setting)

8 degrees = .775



Use this QR code for a video version of these instructions!

