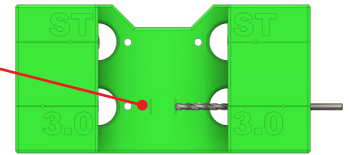


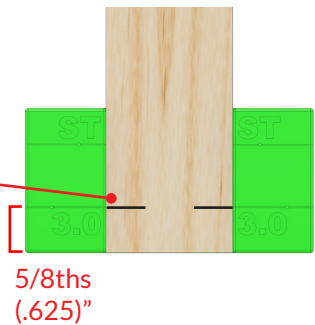
Turbo Jig Four Wheel Touch/Steer

The Turbo Jig is designed to establish a solid foundation for the rear wheels, front to back and side to side alignment of a Pinewood Derby car. There are many variables involved that can effect the precision of the alignment such as proper clamping of the body, the size and quality of the wheels, wheel bores, axles, axle bend etc.

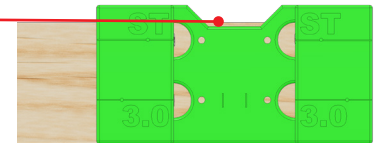
- 1** Insert drill bit into one of the rear holes and align the tip with the indicator mark. This gives the correct depth for drilling the axle hole. **STOP** The drill bit **MUST** move smoothly through the drill bushings. Please use the drill bit provided with the jig, or a #43 bit that has been sanded until it moves smoothly through the bushing. Failure to do so can cause damage to the jig.



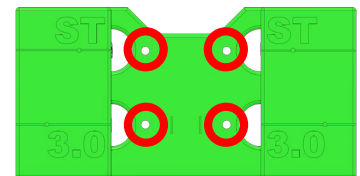
- 2** Mark the wood block where axle holes are to be located. Align these marks with the corresponding lines on the jig. **STOP** The wood block **must not** be forced into the jig. This can lead to misaligned holes or damage to the jig. If the block is too wide, sand it until it fits. The wood block **MUST** sit flat in the jig in order for the holes to be drilled at the correct heights for proper alignment. Please make sure to clean away any debris from the jig pocket before clamping the block in place. The rear wheel bushings are located 5/8ths (.625) inches from the rear of the jig. Therefore the wood block can be mounted flush with the rear to obtain a preferable rear axle placement. Clamp the block in place and drill the holes. Repeat for the front holes.
STOP Please use only enough clamping force to hold the wood block in the jig. Too much force can skew the wood or with enough pressure, flex the jig resulting in misaligned axle holes.



- 3** In order to mark the portion of the car body that needs to be cut away from the front wheel area, arrange the jig vertically on a flat surface. Place the wood block behind it and mark with a pencil. This is the amount of material that needs to be removed to ensure proper side to side alignment.



- 4** These holes can be used to drill glue ports for the axles. Align the axle hole location marks from step 2 with the reference lines of the jig. Drill carefully from the bottom until the bit pushes through to the axle hole.



PLEASE NOTE:

The Turbo Jig Four Wheel Touch/Steer is designed for rules where axles cannot be bent and four wheels must touch the track. Cars drilled with this Jig will have a steer amount of approximately 5-7 inches over 4 feet.

Practically none of the stock axles are straight. This will affect how much the car steers. It is advisable to still check the steer of the car, even with aftermarket axles. Rotating the front wheel axles, AND the rear axles will change how much the car steers.

