

# Tenhulzen Automotive Toe Plates Assembly Instructions

## Step 1: Thread the black thumb screws

Thread 1 of the black thumb screws into the each of the short stand-offs



## Step 2: Assemble as desired

The stand-offs are attached on the outside of the toe plate for storage (so everything will clip together), and on the inside for measurement (so that they extend to contact the wheel). Use the 4 remaining thumb screws to attach them to the plates as desired.



## Step 3: Attach the degree conversion chart

Peel off the adhesive backing on the velcro and stick the degree conversion onto the plate with the straight tape measure slots (straight slot pictured below).



## **BONUS!**

Now included are 4 rubber grippers and a tube of superglue. These rubber pieces can give the toe plates more grip on smooth concrete or epoxy floors.

Glue one on each side of the bottom edge of the plates



Assembly should now be complete.

If you have any questions or issues, please contact us at [info@TenhulzenAutomotive.com](mailto:info@TenhulzenAutomotive.com)

## **Toe Plates Toe Measurement Instructions**

The rim stand-offs work on nearly all cars and SUV's, however it is possible that the sidewall on some trucks and SUV's may be too tall for the stand-offs to properly contact the wheel rim. In this case either the stand-offs can be removed and the plates can be used as standard toe plates (placed flat against the tire), or a 2x4 or similar can be placed under the plates to raise them up higher.

Before you start ensure the vehicle's steering wheel is centered. If the vehicle is equipped with hub caps they will either need to be removed.

### **Step 1: Adjust flat slot plate**

Place the toe plate with the straight tape measure slots close to the wheel, so that when the stand-offs are resting against the rim, the plate will be sitting vertical. Use the notch cut into the top edge of the plate to center the plate on the wheel.

Use the thumb screws to adjust the stand-offs so they will contact the rim of the wheel. When tightening it is not necessary to use two hands, simply apply some pressure to the plate while the stand-off is against the rim and the friction will allow the thumb screw to be tightened.



### **Step 2: Extend tape measures**

Run the tape measures underneath the car as shown, 80 inches should be enough



### **Step 3: Adjust stand-offs**

Use the same procedure as shown in step 1 to fit the other toe plate on the opposite side of the vehicle and place the tape measures into the tape holder slots. **Check that the stand-offs on both plates are properly seated against the rim of the wheel.**

### **Step 4: Measure Toe**

Unlock the tape measures and slide them into the slots. Do NOT re-lock the tape measures. Leaving them unlocked will apply the proper amount of tension. Pull on them slightly and note the measurements.



The rear tape measurement (side towards the rear of the vehicle) minus the front tape measurement (side closest to the front of the vehicle) is the total toe of the axle. A larger measurement on the front side indicates toe out, and a larger measurement on the rear side indicates toe in.

For example, if the front measurement is 66" and the rear measurement is 66 3/32" the axle has a total toe in of 3/32" .

Note: When using alignment specs, note that the toe plates measure the TOTAL toe, not the toe of each wheel. Thus if your specs are given for each wheel you will need to add those values together. For example, if the toe in of each wheel is suppose to be 0.15 degrees, then the total toe should be  $0.15+0.15= 0.3$  degrees. The optional alignment specs CD gives total toe so these specs do not need modification, however you should use the degree specifications, NOT the inch specifications.

Tip: if the toe is correct but the steering wheel is crooked, turn the tire rod on one side in, and the tie rod on the other side out an equal number of turns. This will keep the toe measurement but adjust the position of the steering wheel. Make sure to adjust it the right direction!

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