

How to Troubleshoot Accuracy Problems

Accuracy issues can be caused by many things, some that are not related to TigerStop. Troubleshooting accuracy problems can be complicated, but if you follow this guide closely, you can solve any issue you are having.

1. Check part square

If you are cutting parts, check to make sure the cut end of the part is square. An unsquare part can be a sign that the accuracy issue is being caused by inadequate clamping or from the part moving during processing. An unsquare part can also be a sign of excessive saw blade run out. The TigerStop may also be mounted unsquare to the blade.

2. Check the TigerStop Pusher Attachment

The pusher attachment mounted to the TigerStop carriage may have mechanical play if not mounted properly. This can cause accuracy and part square issues. A quick way to check for this is to try and wiggle the TigerStop pusher attachment by hand. If you get any front-to-back movement, you will want to remount the pusher attachment. If you still have play, then you may need to check the flip away mounting or check the belt to ensure you don't have any damage. See the [TigerStop Installation Guide](#) and the [TigerStop Belt and Motor Replacement Guide](#) for instructions.

3. Check the saw tolerance

In some situations, accuracy problems can be caused by the saw that TigerStop is mounted to. To check the saw;

1. Move TigerStop to a short distance.
2. Cut 6 parts, without moving TigerStop.

Note: You will be using TigerStop as a stop for this exercise

3. Using a caliper, measure each part. Each part should be the same length. If there is any deviation, make sure it is within your saws specified tolerance. If the parts are beyond your saws stated tolerance, you know your accuracy issue is, at least in part, caused by the saw.

4. Does the accuracy problem happen only when running a parts list?

If you are running a pusher or pattern part list, does your accuracy issue only happen when inside these lists but its accurate in manual mode? TigerStop handles accuracy differently in manual mode than it does inside a pusher or pattern parts lists. If this sounds like your accuracy issue, you will want to check and set the Kerf setting. Use the [TigerStop Version 3.50 - 4.72 Users Guide](#) or the [TigerStop Version 5 Users Guide](#) for full instructions on how to set your Kerf setting.

Note: SawGear doesn't push material, so it will not have a kerf setting.

5. Is the accuracy always off by the same amount at any location?

If the TigerStop is not accurate by the same amount, no matter the location, then you will need to adjust your calibration. Use the [TigerStop Version 3.50 - 4.72 Quick Reference Card](#), [TigerStop Version 5 Quick Reference Card](#) or the [SawGear Quick Reference Card](#) for full instructions on how to calibrate your machine.

6. Is the accuracy consistently off the farther out you go?

If the TigerStop accuracy gets consistently worse the farther out you go, then you may need to re-tension your belt and adjust your scale setting. Over time, the TigerStop and SawGear belt will wear and need to be re-tensioned. Use the [TigerStop Belt and Motor Replacement Guide](#) or the [TigerTurbo Belt Replacement Guide](#) to re-tension and scale your machine.

If you have a TigerStop product that uses a rack and pinion drive, you will want to check your scale against the machines default value. On these machines, the scale should never be changed.

7. Fill out a TigerStop Data Log

If the accuracy problem doesn't seem to be caused by one of the causes listed, then you should fill out a TigerStop data log. The data log is a worksheet that will have you send TigerStop to a number of locations and then record data at each location. Download the [Data Log](#), read the instructions and be sure to fill it out completely. Once finished, fax or email the data log to TigerStop Customer Service.

TigerStop Customer Service
Service@tigerstop.com
Fax: (360) 260-0755