WWW.BITEHARDER.COM
7 Fruite Street, Unit A, Belmont, NH 03220
603.722.8968
support@biteharder.com

# INSTRUCTIONS: TRACK TENSIONING AND ALIGNMENT TOOL

**Congratulations on the purchase of your new BITEHARDER® Track Tensioning and Alignment Tool**

Part number: **TTTGA001**

A snowmobiles track is often the most overlooked and costly item to replace. Improper track tension can lead to premature hyfax wear, performance/control issues and even irreparable damage. Proper track tension provides better performance, improved ride characteristics, increased fuel efficiency, and overall greater reliability.

Your new **BITEHARDER®** Track Tensioning and Alignment Tool is designed to easily set your snowmobile manufacturers specified track tension, gap and alignment, in a simple “hands free” method.

**BITEHARDER®** recommends that for **new snowmobiles** you check your track tension before your first ride, then after riding **100-200 miles** (due to initial new track stretching). **BITEHARDER®** also recommends checking your tracks tension every 1000 miles and/or also after installing **new set of hyfax**.

Always set your snowmobile’s track tension and track gap per your owner’s manual specifications for your specific model.

## PRODUCT HIGHLIGHTS:

- Easy adjustment of track tension, track gap and track alignment at the same time
- Proper track adjustments provide better performance, improved ride and better fuel efficiency
- Tools T-Block is adjustable to your snowmobile manufacturers specific track tension and gap specifications
- Adjust your track “hands free” by placing the pre-set tool on the track and turning the tracks adjustment bolts
- Properly adjusted tracks allow for even wear of hyfax and other track components

## DIRECTIONS FOR TOOL USE:

- For best results, adjusting your track should be done when your track is warmed to at least room temperature but can be done cold
- Make sure your engine is turned off and your track is elevated off the ground (six inches or higher) so it can spin freely
- Using the **T-Block Position Setting Calculation** below, determine the **T-Block** setting location on the **Track Tensioning Tool Body** – see **T-Block Position Setting Chart**
- Loosen the rear axle retaining nut and adjustment screws
- Place the **T-Block** between the track clips (set screw side facing out) at the location found in your user’s manual (this distance is measured from the idler wheel centerline). Holding the **T-Block** in place, slide the **Tool Body** into the **T-Block** from under the track (**Tension Pin** pointing up) to your pre-determined setting location. Turn the **T-Block** set screw so it contacts the **Tool Body**, then tighten the set screw only an additional 5-to-10-degrees (do not over tighten)
- Using the adjustment screw on your snowmobile, tighten your track until the **Tension Pins** red line is flush with the top of the tool body
- Remove the tool body by releasing the **T-Blocks** set screw (caution tool is under pressure when doing this) and repeat the process on the other side of the track
- Once complete, lock the adjusting screws and tighten the rear axle retaining nut to the manufactures torque specifications
- Start engine and rotate track verifying proper operation

## T-BLOCK POSITION SETTING CALCULATION:

**If your manufactures Track Tension/Weight is 12 pounds or under use the setting equation below:**

Track Gap or Slack **+** 0.5 **=** **T-Block Position Setting.**

**If your manufactures Track Tension/Weight is over 12 pounds, use the setting equation below:**

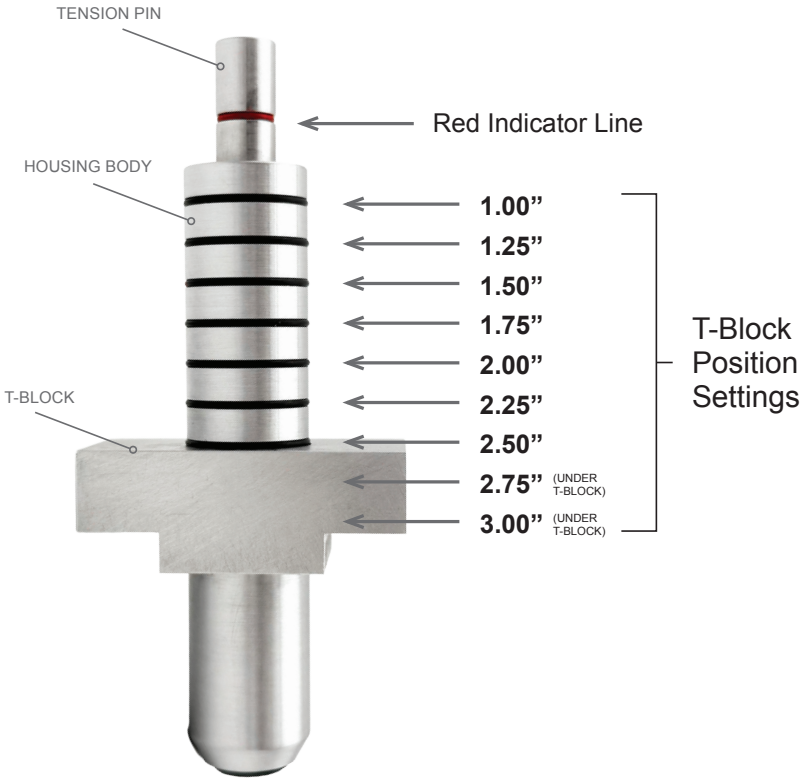
(Track Gap or Slack ÷ Track Tension or Weight) **x** 20 then subtract .25 **=** **T-Block Position Setting.**

**Note:** Your calculated T-Block setting position may be different than the shown settings on the T-Block Setting Chart. If so, use the closest setting to your calculated number.

## DEFINITIONS:

**Track Tension or Weight:** The manufacturers specification for the individual snowmobiles tracks tension setting
**Track Gap or Slack:** The manufacturers specification for the individual snowmobiles tracks free play
**Track Tensioning Tool Body:** The main body (housing) of the tool with the black T-Block setting positions
**T-Block:** The block with the set screw that adjusts up and down on the Track Tensioning Housing Body
**Tension Pin:** The spring-loaded pin that protrudes from the top of the tool's body with the red indicator line

# T-BLOCK POSITION SETTING CHART




SCAN & GO

Setup Calculator

How-To Video

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