

## 18410E TELESCOPING TRAM GAUGE



Bee Line announces the release of the 18410E Telescoping Electronic Tram Gauge. This new Assembly incorporates several new features that simplify the gauging process including:

- A lightweight design.
- Exceptional accuracy and repeatability.
- Transported with ease.
- Affordable pricing.
- Incorporates a built in electronic digital scale

### THE OPERATION IS FAST AND EASY.

Start on one side of the vehicle. Loosen knob “B” (Figure 3). Unclamp snap latch “A” (Figure 3) and allow the telescoping tube to slide freely. Place the left pointer in the center of the hub and slide the gauge until the right pointer fits snugly into the adjacent hub. Clamp snap latch “A” while both pointers are in the hub centers (Figure 1). Remove the gauge from the hubs and slide the digital gauge so that the gauge is near the middle of the flat bar it is attached to. Lock the digital gauge in this position using knob “B”. With the power on, “zero” the digital readout by pressing the zero button.

Now move to the other side of the vehicle. Unclamp snap latch “A” and allow the telescoping tube to slide freely. Place the left pointer in the center of the hub and slide the gauge until the right pointer fits snugly into the adjacent hub. Clamp snap latch “A” while both pointers are in the hub centers. Remove the gauge from the hub. The error between the axles can be read directly from the digital readout. (see figure 4)



FIGURE 1

WHEN THE PINS FIT SNUGLY IN BOTH HUBS, LOCK THE SNAP LATCH



A B  
 FIGURE 3



A B  
 FIGURE 4



FIGURE 2

# 18419 TELESCOPING TOE GAUGE KIT

Bee Line has made it easy to convert your 18410E Electronic Tram Gauge into an equally accurate Toe Gauge with these additional parts. Simply attach these add-ons to both ends of each pointer and you have a Toe Gauge that operates similar to the 18410E Tram Gauge. Taking a toe measurement has never been easier! Utilize these inexpensive add-ons to give your shop a valuable 2-in-1 gauging tool.



THE 18419 KIT EASILY CONVERTS YOUR 18410E TELESCOPING TRAM GAUGE INTO AN EQUALLY EFFICIENT TOE GAUGE

## USING MANUAL TELESCOPING TRAM/TOE BAR AS A TOE GAUGE

After scribing the tires, loosen knob "B". Place the toe gauge on the front of the tires. Unclamp the snap latch "A" and adjust the telescoping tube until both pointers are roughly on the scribed lines and then reclamp snap latch "A". Now, move the toe gauge to the rear of the tires. Set the pointer with the end containing the magnetic base precisely on the scribed line (Figure 1). Loosen the thumbscrew holding the pointer extension on the other end of the toe gauge. Position the pointer precisely on the scribed line and tighten the thumbscrew (Figure 2).

Now, remove the toe gauge from the vehicle. Slide the digital gauge so that the gauge is near the middle of the flat bar it is attached to. Lock the digital gauge in this position using knob "B". With the power on, "zero" the digital readout by pressing the zero button. Loosen snap latch "A" and place the toe gauge in front of the tires. Move the toe gauge so the pointer at the magnetic base end of the gauge is precisely on the scribed line. Adjust the telescoping tube until the other pointer is precisely on the scribe line. Clamp snap latch "A". Remove the Toe Gauge and read the actual toe value from the digital readout (Figure 4).



INITIALLY ADJUST THE TELESCOPING TUBES SO THE POINTERS CLOSELY MATCH THE SCRIBE MARKS ON THE FRONT SIDE OF THE TIRES.



FIGURE 1  
 BASE WITH MAGNET



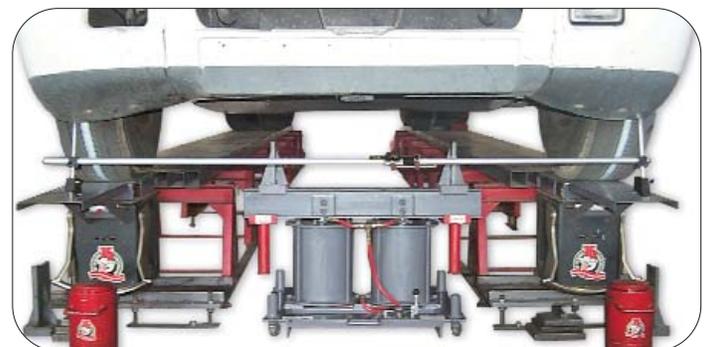
FIGURE 2  
 THUMBSCREW ADJUSTMENT



FIGURE 3



FIGURE 4



ON THE FRONT SIDE OF THE TIRE, ADJUST THE TELESCOPING TUBE UNTIL BOTH POINTERS ARE ON THE SCRIBED LINES AND LOCK SNAP LATCH "A".