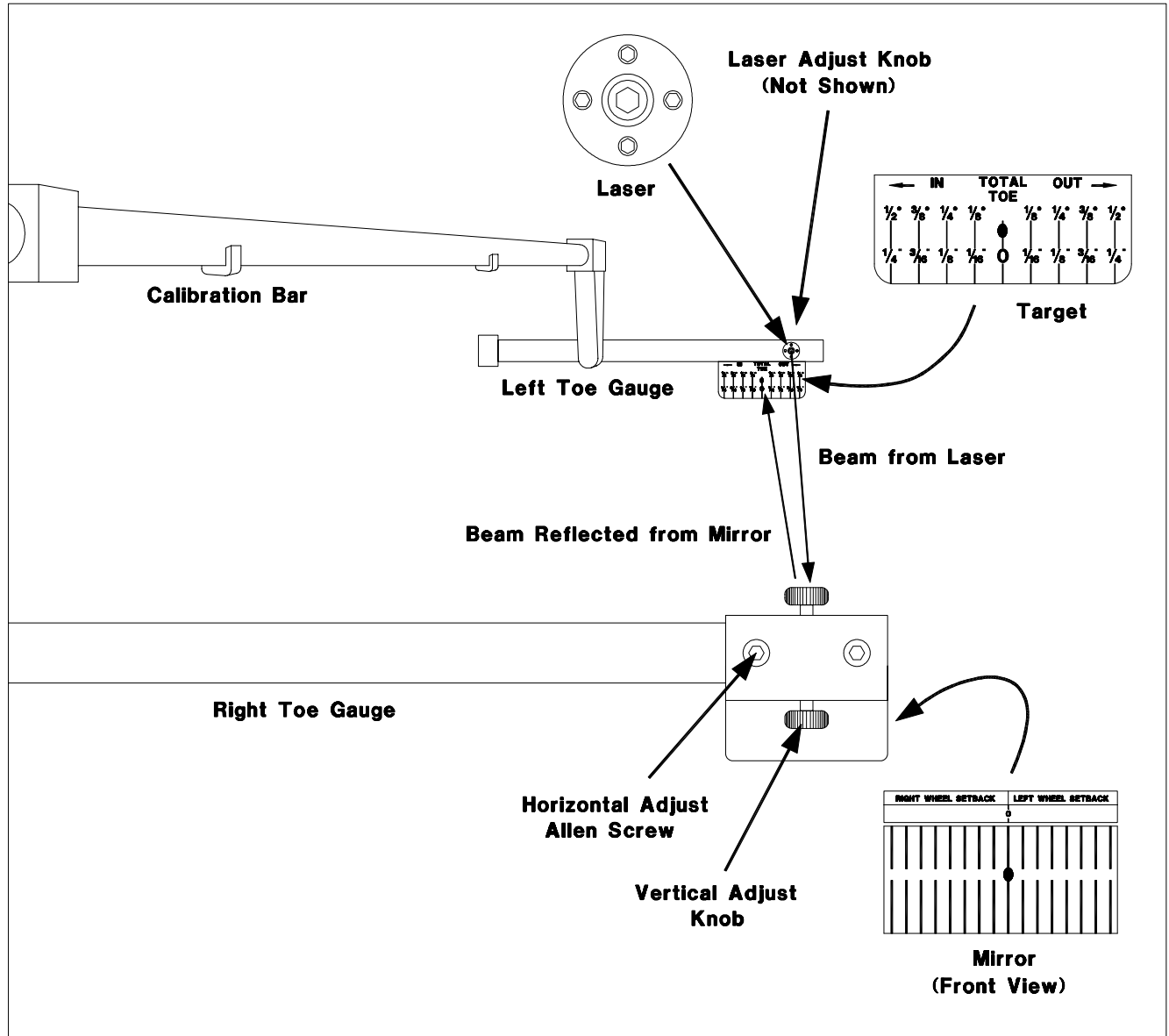
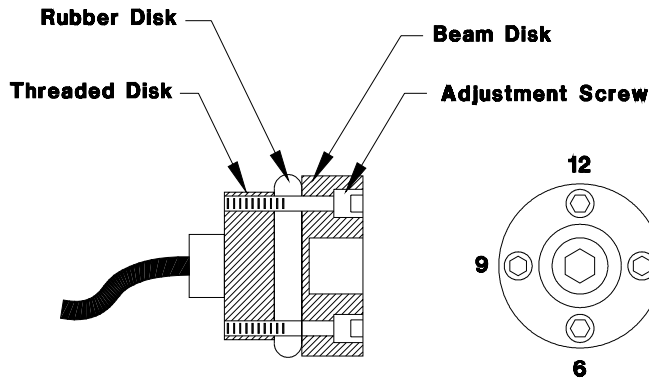


Front Wheel Toe Gauge Laser Calibration



1. Rotate the tapered magnets on the Left and Right Toe Gauge to zero.
2. Mount and level the Left and Right Toe Gauges on the ends of the Calibration Bar.
3. The laser beam image should be visible on the Mirror. The Laser Adjust Knob on the Left Toe gauge can be loosened and moved up or down until the image is visible on the Mirror.
4. The laser beam image should be at the position on the Mirror as shown in the above illustration. If not, proceed to the next page to adjust the laser beam position.

Front Wheel Toe Gauge Laser Calibration



The laser is a three piece assembly held together with four Adjustment Screws. A rubber disk maintains pressure between the Threaded Disk and the Beam Disk when the four screws are tightened. The Adjustment Screws are labeled in the figure to correspond to the hour positions on a clock.

The light beam from the laser is calibrated by adjusting the four individual Adjustment Screws. The position of the beam on Toe Gauge Mirror must be adjusted to hit the center.

Figure 1 shows the desired position of the laser beam image when the laser is perfectly calibrated. Following are four examples of adjusting the leaser beam so it centers on zero horizontally and is between the vertical zero lines.

1. Beam image above and left of zero (Figure 2)
 - a. Tighten 6 to move down
 - b. Tighten 9 to move right
2. Beam image above and right of zero (Figure 3)
 - a. Tighten 6 to move down
 - b. Tighten 3 to move left
3. Beam image below and right of zero (Figure 4)
 - a. Tighten 12 to move up
 - b. Tighten 3 to move left
4. Beam image below and left of zero (Figure 5)
 - a. Tighten 12 to move up
 - b. Tighten 9 to move right

The above adjustments are for routine re-calibration where minor movement of the laser beam image is required. The following should be performed if difficulty is encountered:

1. Tighten all four adjustment screws to compress the Rubber Disk to maximum.
2. Loosen each of the screws one turn. Then perform the above adjustments again.

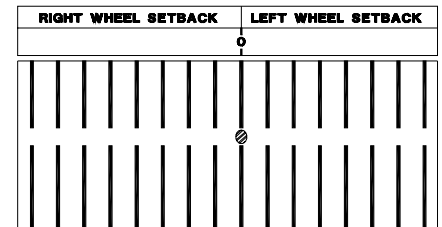


Figure 1

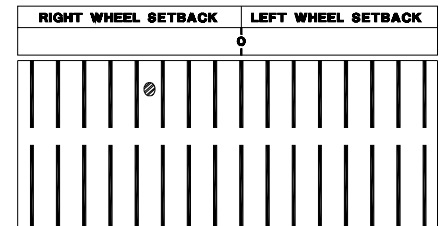


Figure 2

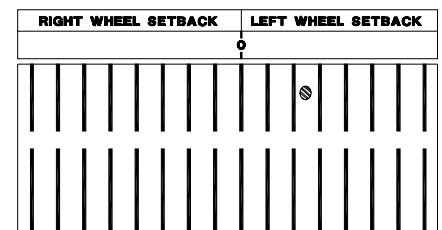


Figure 3

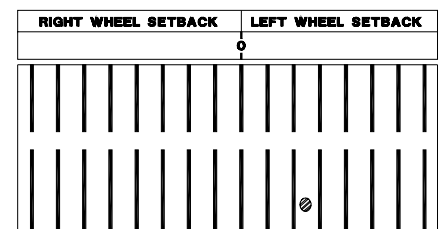


Figure 4

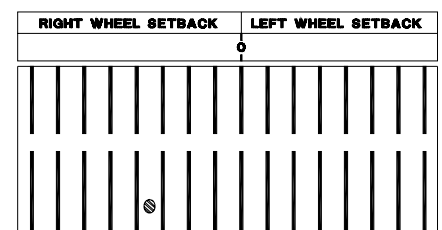


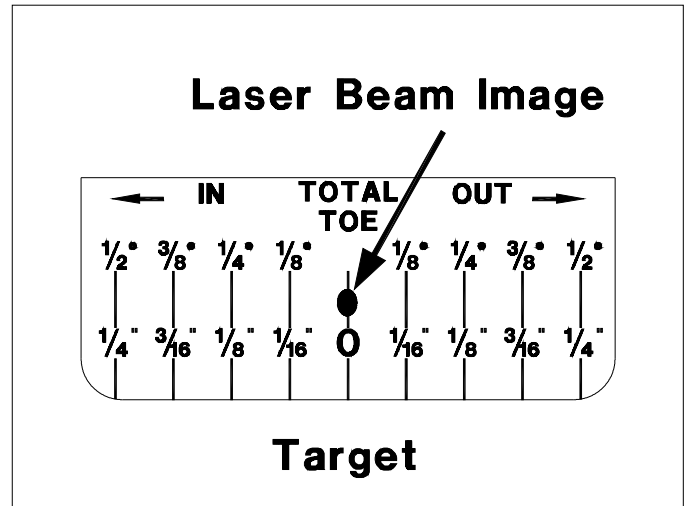
Figure 5

Front Wheel Toe Gauge Laser Calibration

The laser beam image should be centered on the Mirror as shown in Figure 1 on the preceding page.

The beam is reflected from the Mirror on the Right Toe Gauge to the Target on the Left Toe Gauge. The laser beam image should be centered on the target as shown in the figure to the right.

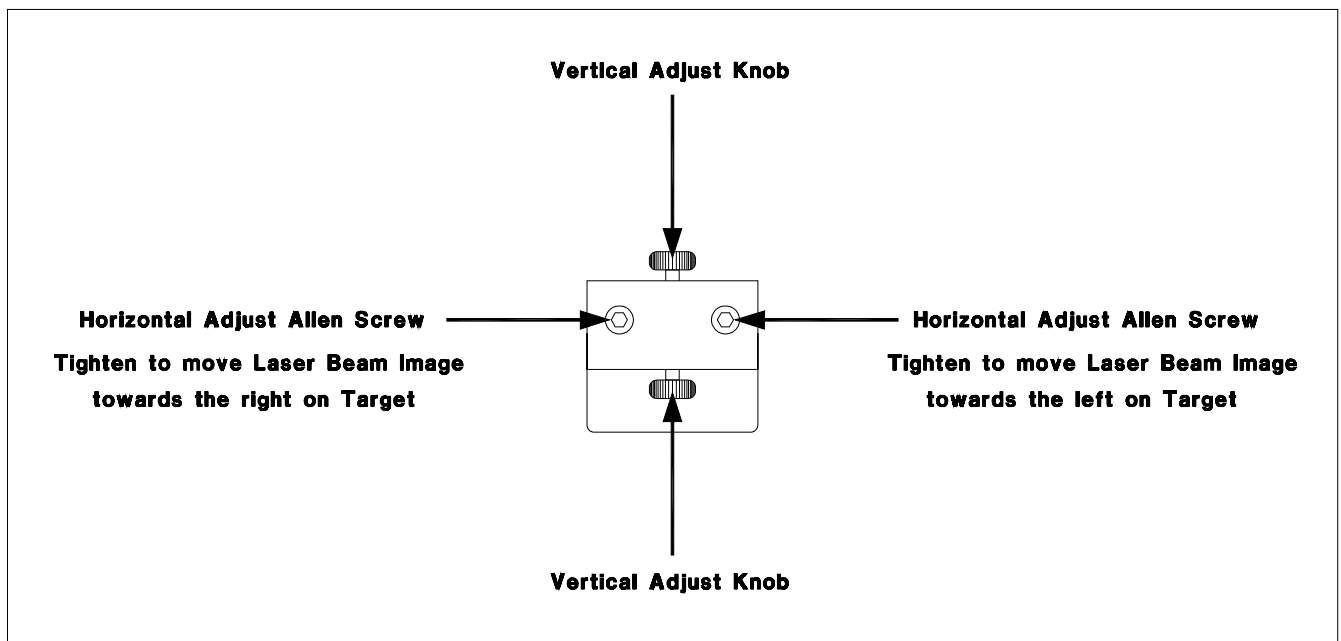
The following adjustments should be made to position the laser beam image if necessary.



The figure below shows the rear of the Mirror Mounting Assembly.

Loosen the two Vertical Adjust Knobs and rotate the laser beam as required to move the laser beam image up or down on the Target. Tighten both knobs when adjustment is complete.

Tighten the left or right Horizontal Adjust Allen Screws to move the laser beam image right or left on the Target as described in the figure below.



Right & Left Toe Gauge Laser Calibration

1. Rotate the tapered magnets on the Left Toe Gauge and the Left Rear Retro Screen to zero.
2. Mount and level the Left Toe Gauge and the Left Rear Retro Screen on the machined faces of the calibration bar.
3. The laser beam image should be on the number 6 and at the mid point vertically on the Rear Retro Screen Mirror.
 - a. The four screws on the Laser can be adjusted to move the beam until it is correctly positioned. Refer to previous section for adjusting the laser beam.
4. The laser beam is reflected from the mirror on the Rear Retro Screen to the Thrust Angle Scale on the Left Toe Gauge. The laser beam image should be on the number 5 and at the mid point vertically on the Thrust Angle Scale.
 - a. Adjust the laser beam image left and right using the Horizontal Adjust Screws on the Rear Retro Screen.
 - b. Adjust the laser beam image up and down using the Vertical Adjust Screw on the Rear Retro Screen.
5. Repeat Steps 1 through 4 for the Right Toe Gauge and Right Rear Retro Screen.

