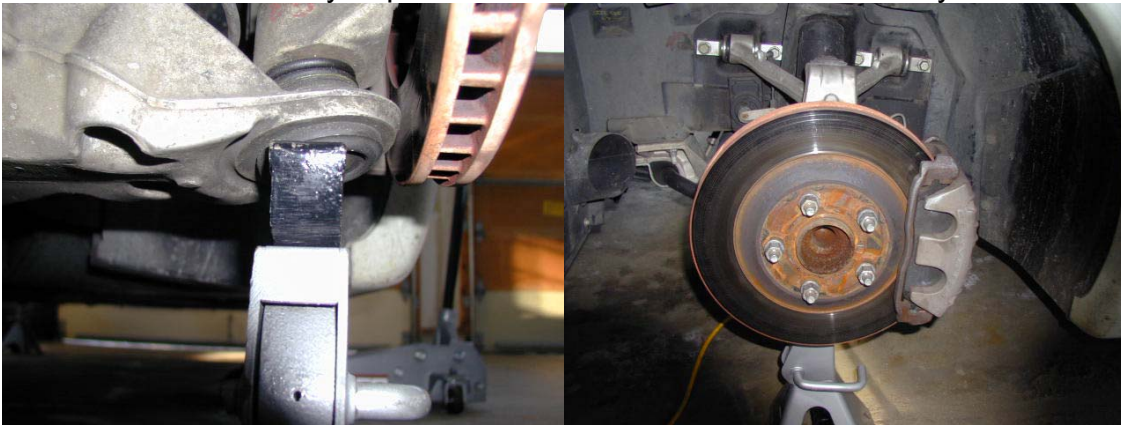


Alignment tool Kit Installation Instructions

- A) Starrett® 16 Ft. DigiTape® Model D34-16 (about \$40 each) you can use a cheapo tape if you wish. You will need 2 of these
- B) Lasermark Tracer Laser Torpedo Level (or equivalent)
- C) Plumb bob with string, or a carpenters square, a piece of chalk.
- D) Smartcamber gauge.

- 1) Set your desired ride height.
- 2) Set the camber, check it with a Smartcamber.
- 3) Put the car on 4 jack stands with the jack stands under the a-arms as far out as possible, like under the ball joints. Eastwood makes urethane jack stand covers so it is a soft non-scratching surface with better grip (not shown). It is recommended that you put a wheel or 2 under the car for safety.



- 4) Then remove the wheels and install the new tool on each side. Use at least 3 lugnuts ***FINGER TIGHT ONLY!***



- 5) Use the tapes on the tool and since they are under the car they are a straight shot from side to side and with the DigiTape you read the toe as the difference

front to back of the tool. So if you want 1/16 toe out on the front the front tape might read 70 5/16 and the rear would read 70 1/4.



- 6) If not you loosen the tie rod jam nuts and turn the tie rods until you get what you want. We recommend that to remember what direction to turn the tie rods, think of having the jam nut loosened a few turns so that there is a gap between the tie rod ends and the nut. Now to shorten the tie rod, "close the gap" or "open the gap" to lengthen the tie rod.
- 7) To set the thrust angle so the car is tracking straight, use the plumb bob and string or square and to make a chalk mark directly under the end of the center hub bearing, on the ground. Do this on each side.



- 8) Then hold the laser on the red angle piece and aim at the floor adjacent to the chalk marks. With the steering wheel pointed straight the laser should be the same distance from the chalk mark on each side of the car. If not, adjust the tie rods on each side the same amount so that the toe in is not affected, only the zero. Then you repeat for the rear looking at the front. Since the laser is shooting the entire wheelbase of the car the accuracy associated with small measurement errors of say an 1/8 inch is in reality an angle of only .07 degrees!



- 9) Caster can be measured with the Smartcamber tool as described in the instructions that were provided with it. A small plastic clamp on the rotor will prevent rotation.
- 10) This tool is useful to check toe while it is on the ground. Use the red angle piece on each side against the tire on the ground and with the way we hold in the tape clips on the other side with the thumbscrews, one person can check the toe. The suggested toe settings for **track use** are:

Front: 0 to 1/16 toe-out, **Rear:** 1/8 to 1/4 toe-in

Please note that this is an aggressive race setting and the car will be very quick handling and may cause accelerated tire wear.

- 11) Thank you, for your order. If you have any questions or problems, please call 603.682.8073