STEERSMARTS ALIGNMENT PLATES
17653100

IMPORTANT: READ THIS PAGE BEFORE INSTALLATION!

Installation Requirements for Alignment Plates

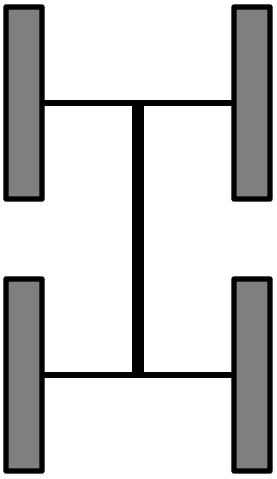
1. Two identical jackstands or two jackstands capable of achieving the exact same heights
2. One level
3. For JK OEM Lug Nuts – 19mm Socket
4. For JL or Ram DJ Lug Nuts – 22mm Socket
5. Impact Wrench/Socket Wrench
6. Cloth or something to wipe rotor surface so that the surface is clean of debris

Special Considerations

1. After correctly securing the tape measures, it is recommended to let go of the tape measures and then read your measurement. The tape measures will droop but this will not affect Toe provided that the elongated sections of the tape measures are still.
2. Make sure the Rotor Hub is clean of debris
3. The Recommended Alignment to limit Death Wobble is ¼” (0.51°) Toe-Out

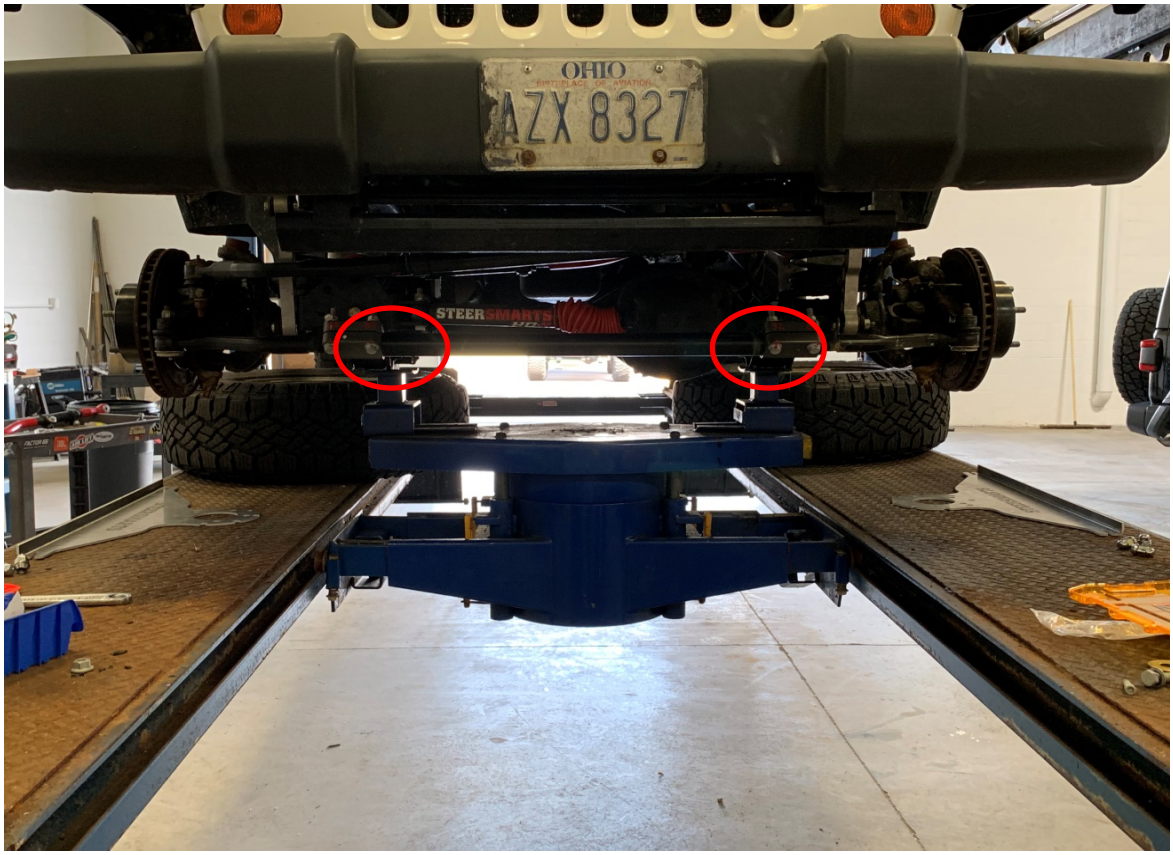
Turn the steering wheel so that the wheels are pointed straight ahead.

Try to get your wheels as straight as possible.

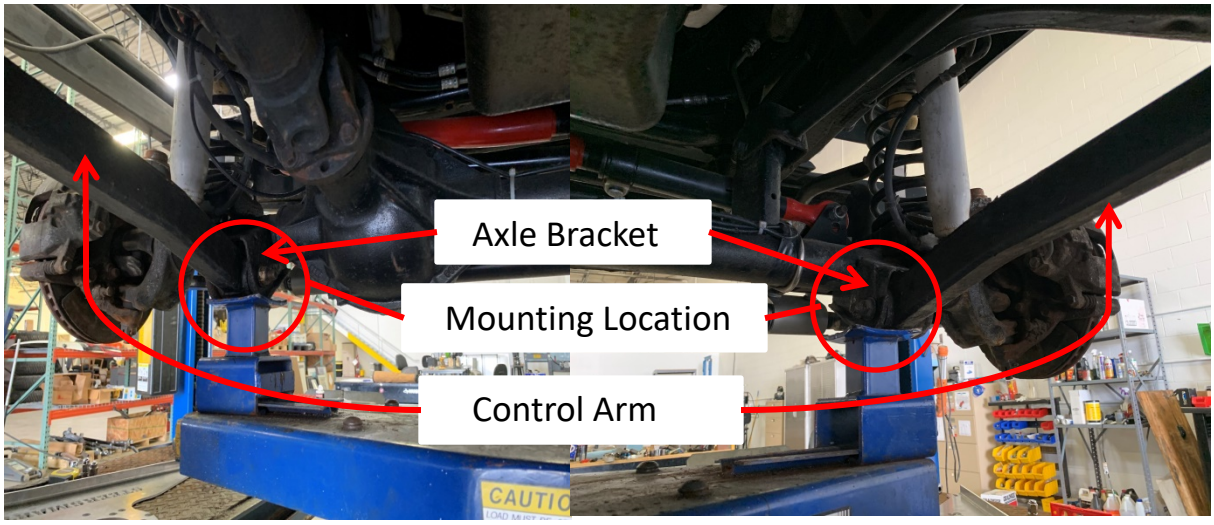


Lift and support the Vehicle Axle at the Control Arm/Axle Bracket Mounting Locations using jack stands or a vehicle hoist. Ensure that the jack stands or hoist mounting locations are at equal heights. Raise your vehicle so your tires can be removed and then remove your tires.

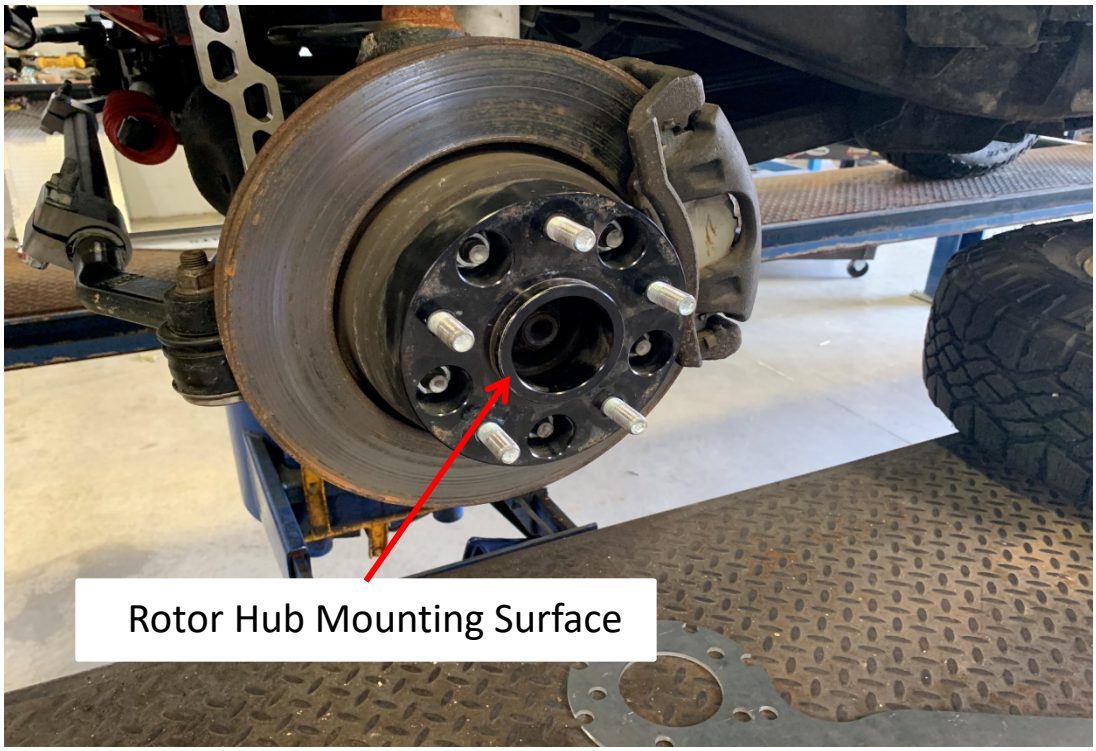
Front of Vehicle, Tires Removed



Zoomed-In View of Control Arm/Axle Bracket Lift Locations



Mount Toe Plate to Rotor. Make Sure Rotor Hub Surface is Clean of Debris and Flat

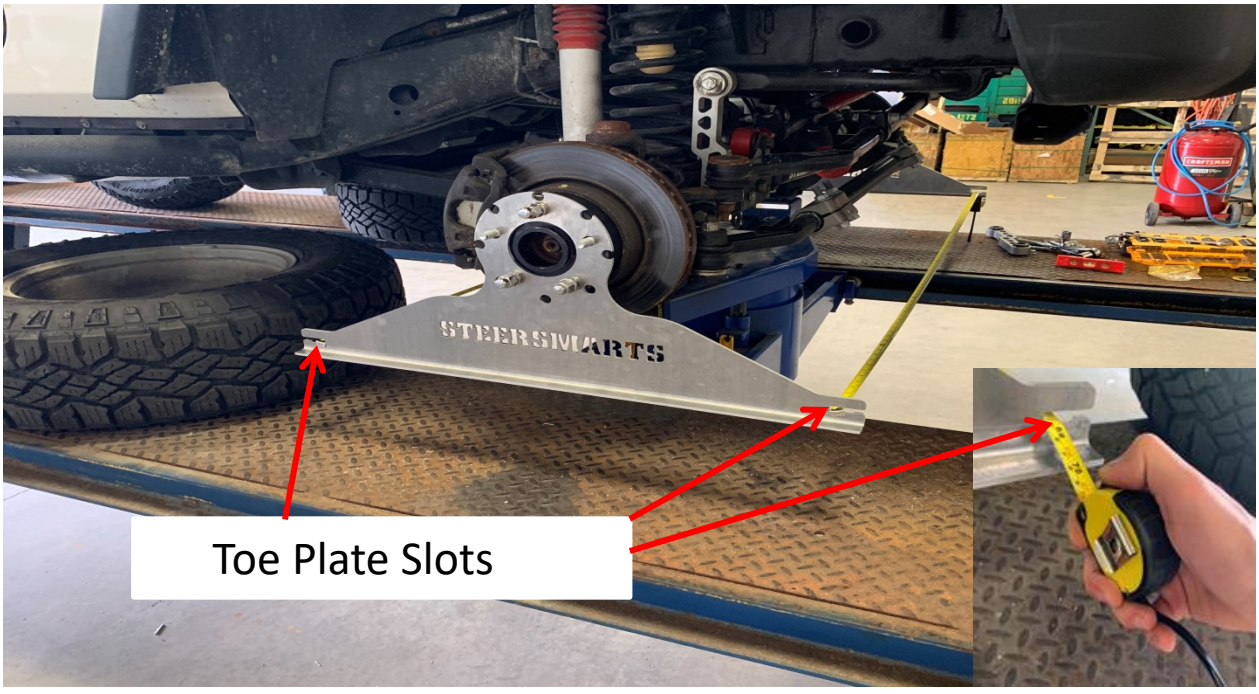


Mount Toe Plate to Rotors on both the passenger and driver side of the vehicle. Fit over the hub. Tighten by hand. Place lug nuts according to the picture below.

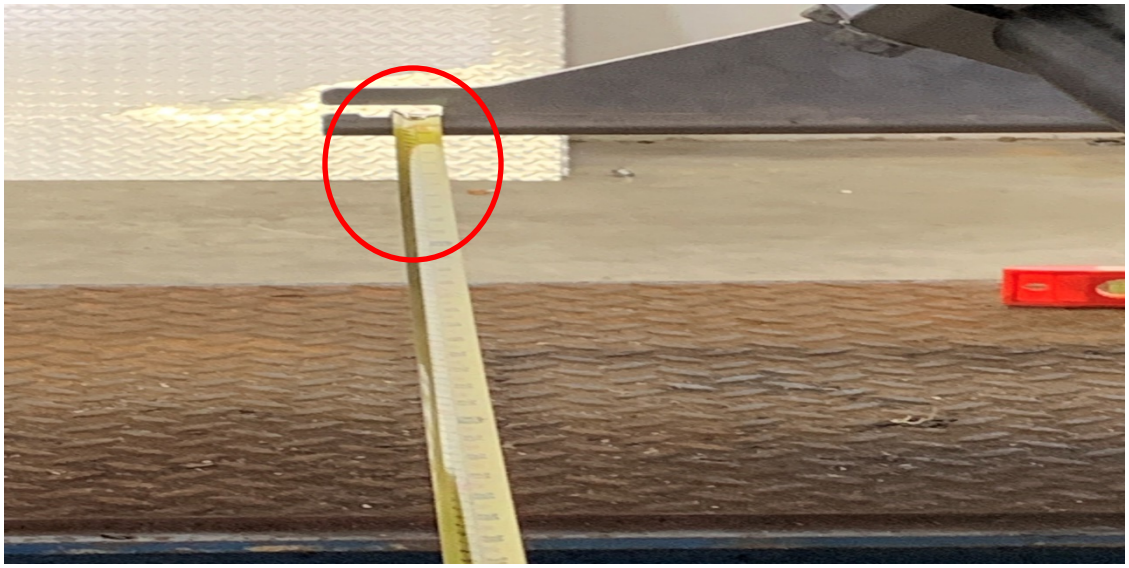
Both sides of the vehicle should look like the picture below.

After Mounting, Ensure Toe Plate is level by checking to see if the bubble lies in between the black lines

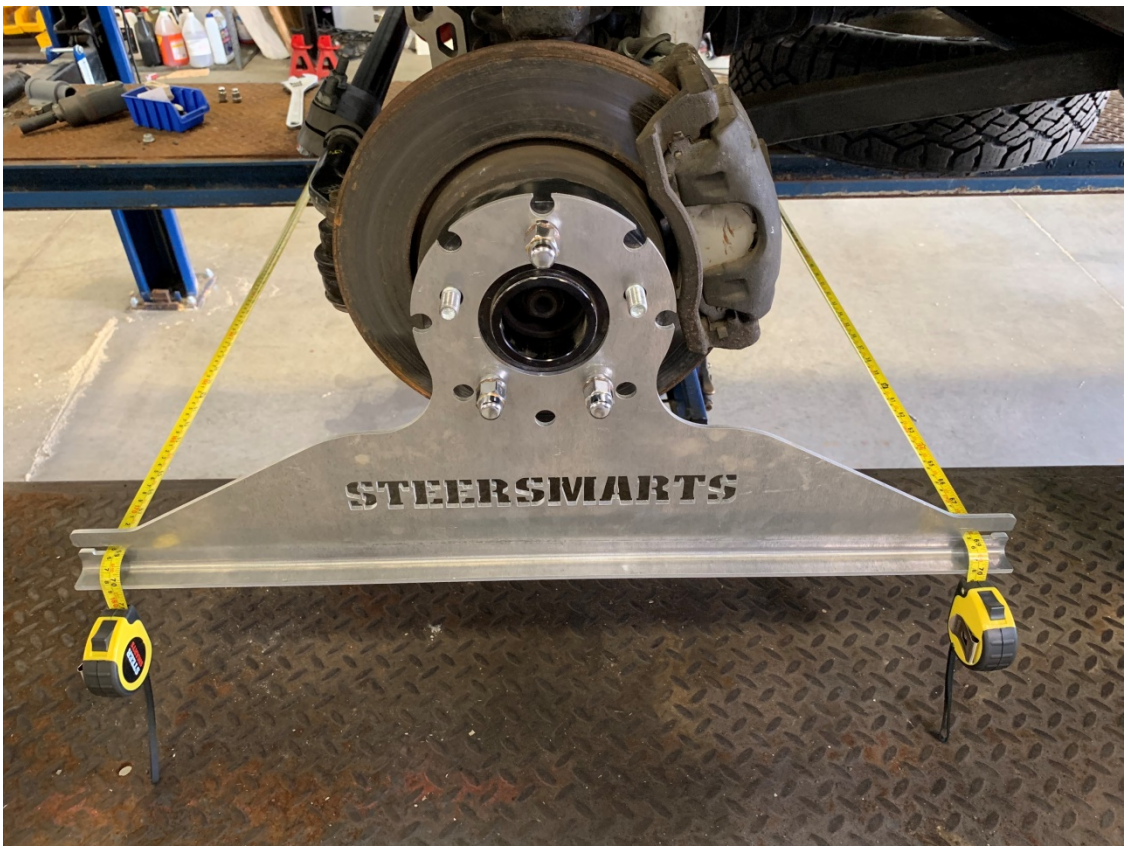
Once leveled, Extend both tape measures from one side of the vehicle to the other. Once extended, slide the tape measure ends into the slots of the Toe plate. Pull on the tape measures slightly to ensure that the metal end of the tape measure hooks on the Toe Plate. Then place your end of the tape measure into the slot.



Once the tape measure ends are hooked and draped through the Toe Plate slots, let your measuring tapes hang freely. Ensure that the tape measures always lie closest to the rotor on both the passenger and driver side.

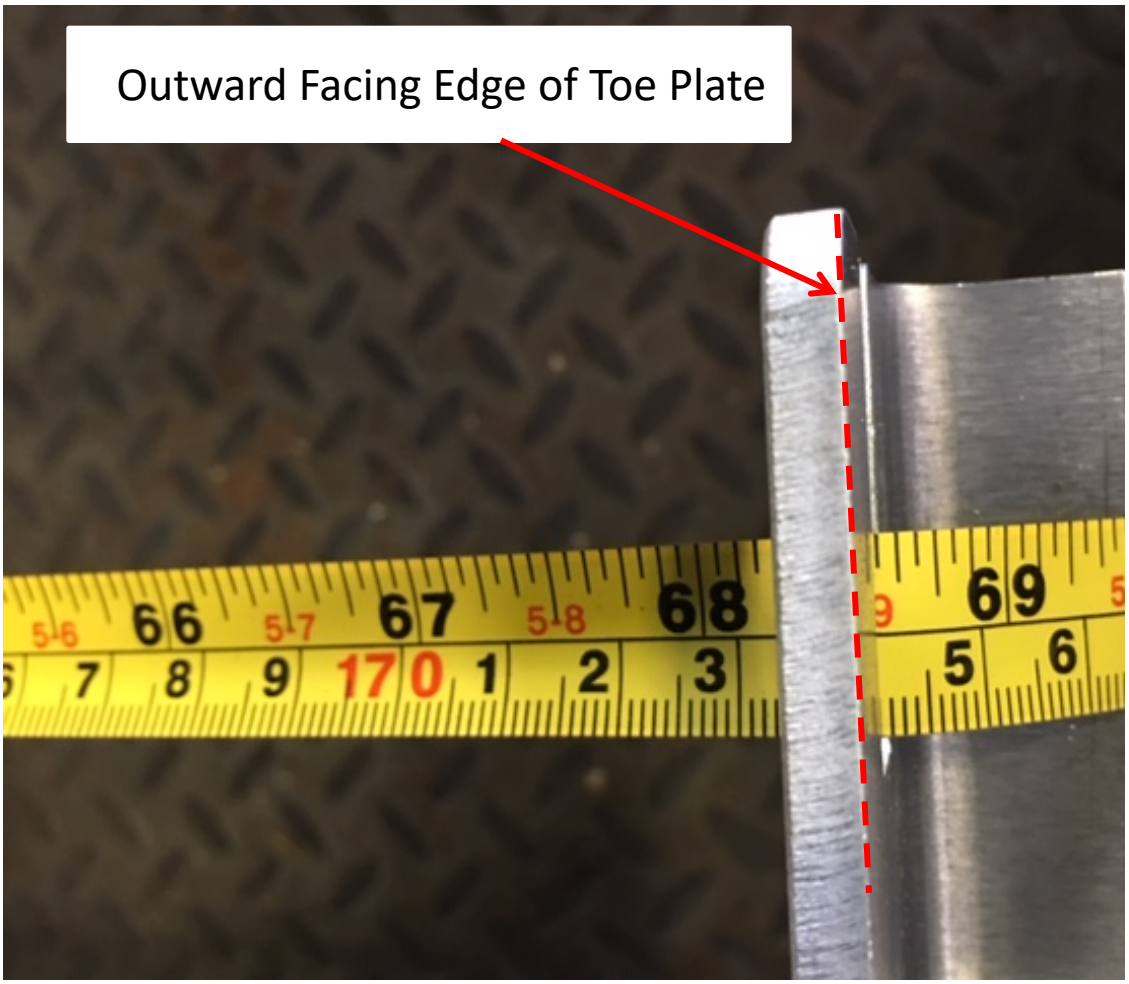


Your setup should look similar to the setup in the picture below. Notice how the tape measures are as close as possible to the rotor and are allowed to hang freely. The wrist straps should not contact any surfaces. You are ready to measure Toe.



Your Toe is calculated as a difference in two measurements. To get the first measurement, look straight down at the measuring tape closest to the front of the vehicle and record the length shown at the outward facing edge of the Toe Plate. In this case, the reading would be 68 9/16”. Repeat this procedure for the tape measure closest to the rear of the vehicle. Determine which measurement is larger. Take larger measurement minus smaller measurement. If the measurement closest to the front of the vehicle is larger, you have Toe-out. If the measurement closest to the rear of the vehicle is larger, you have Toe-in. See next page for more detail or to find your Toe angle in degrees.

Feel free to use 1/32” Increments if a measurement lies halfway between the tick marks.



TOE (Inches)	1/16	1/8	3/16	1/4	5/16	3/8
TOE (Degrees)	0.12	0.25	0.38	0.51	0.64	0.76

Below: Birds Eye View of Vehicle Front Tires