



22000 Rear Axle Aligner

The Bee Line 22000 Rear Axle Aligner puts your trucks on the right track

Centerline alignment allows the technician to gauge and correct tracking to the angles the truck manufacturer intended. For best tire and fuel performance, rear axles must be perpendicular to the frame, and tires must be perpendicular to the axles. The Bee Line Rear Axle Aligner quickly assists the technician to get those angles right.

ADVANTAGES

Better performance with Centerline Alignment

Rear axle alignment is the second most critical tire wearing angle. Tracking misalignment can be very costly, reducing gas mileage and causing premature tire wear on front and rear tires.

Using the Bee Line method, all rear axles, including offset axles and axles with different tire spacers or different tire sizes, are set perfectly at 90 degrees to the centerline of the vehicle. Regardless of whether the vehicle is centered over the chassis or not.

A truck that runs straighter, with less drag or resistance due to misaligned rear axles, will assure better tire performance and fuel economy. That's why centerline alignment is the preferred choice of professionals.



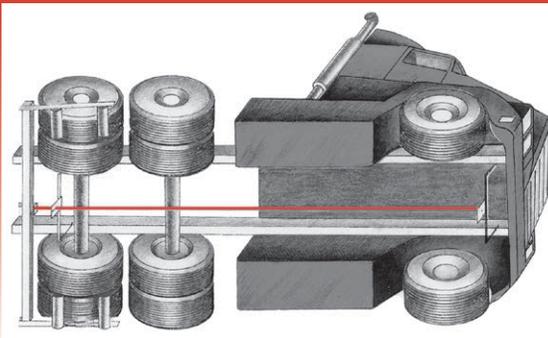
The 22000 can be used on any reasonably flat surface, inside or out.

No Run-out. No need to lift the vehicle off the ground.

The Bee Line self-centering wheel cradles assure the correct position of the laser when seated on the cradles in relation to the axle. Wheel cradles eliminate the need for taking run-out and raising the vehicle off the floor, so the operator can gauge the suspension alignment in its operational position.

FEATURES

The proven 22000 lets you accurately position your rear axles perpendicular to the vehicle's centerline so the wheels travel in a straight line.



Newly redesigned cradles are just as durable, yet lighter and more easily maneuvered around the tires than ever before. The cradles feature rack and pinion gearing to assure accuracy when determining the axle center.



ADVANTAGES

22000 Rear Axle Aligner Features:

- Access to AC power is not required.
- Long life ni-cad battery powers the laser for up to 20 hours before recharging.
- Wheel cradles weigh less than 20 lbs. and the rear beam only 10 lbs.
- User-friendly construction allows even novices to set up the Rear Axle Aligner and one person can take all necessary measurements in just a few minutes.
- Calibrates reliably and quickly to assure consistent accuracy with no added expense or service fee.



The aluminum beam is seated parallel to the axle and emits a laser beam that travels through a slot in the rear target hanging in a centered position between the frame rails.

TRACKING

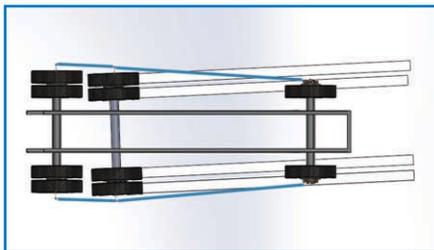


Figure A - Measuring from axle to axle will cause the operator to set both rear axles in a dog-tracking position if the first axle measured is offset or has different sized spacers.

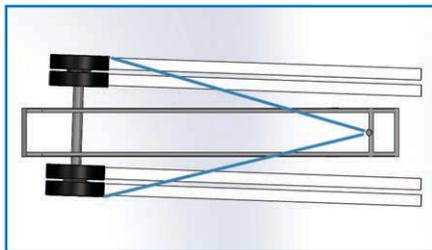


Figure B - Measuring from the king pin, or the center of the front frame, will have the same bad effects as Fig. A.

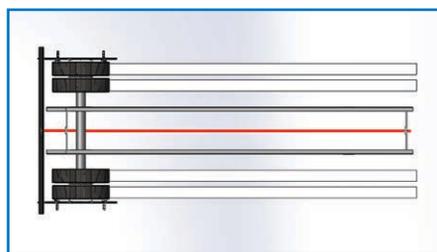
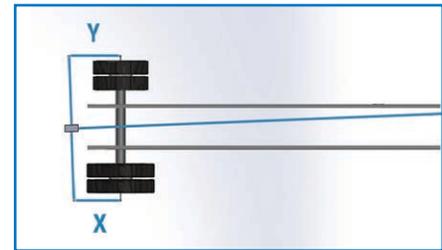


Figure C - With the Bee Line Laser Tandem Aligner, offset axles and axles with uneven spacers are set perfectly at 90° to the centerline of the vehicle. Additional axles are then simply set with a tram gauge.

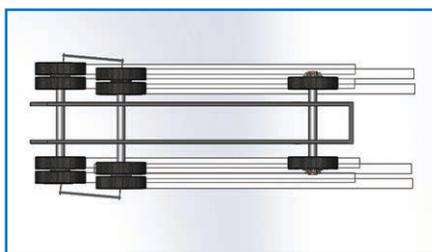


Figure D - An offset axle is automatically compensated for with Bee Line self-centering gauges. The operator aligns the laser to shoot through the rear gauge to the front target.

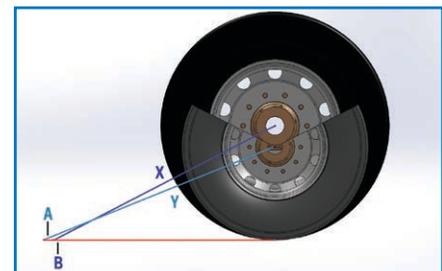


Figure E - Systems that represent axle position by measuring back from the center of the end of the axle can be fooled by different sized tires and/or even uneven tire inflation, which causes one side of the axle to be higher than the other. In the diagram above, lines X and Y are the same length. A and B show the distance back to the floor. The line AB is used to indicate the angle of the axle. As shown, it is mis-represented using this method.

Trailer axles can be aligned by moving the cradles and beam to the trailer axles. The tandem target hangs from the king pin.



The 22000 can be calibrated in under two minutes with a simple process set up on any open floor space.

