



the World Famous

TRAKRITE

WHEEL ALIGNMENT RANGE

Trakrite Wheel Alignment Gauge

Part No. G4008
Instructions



Gunson's Trakrite Wheel Alignment Gauge is the simplest, most accurate device for checking the alignment of the steered wheels of cars and light commercials. It is a roller bearing platform over which one front wheel is slowly driven with the wheels in their straight ahead position.

The wheel alignment gauge is used to make a quick and easy check of a vehicle's wheel alignment (toe-out or toe-in).

It facilitates the correct setting of adjustable wheels.

It has a top plate which is mounted on rollers so that it is free to move sideways. As the wheel is driven over, any misalignment causes the plate to be pushed sideways.

An internal linkage mechanism and pointer indicates on a scale the total movement of the plate, and hence the amount of misalignment.

After use, the pointer is re-set to the central position by the user.

The scale is calibrated to show the ERROR in degrees toe-in or toe-out.

NB: it indicates MISALIGNMENT, that is, if NO deflection of the pointer takes place, then the wheels are correctly aligned and require no adjustment.

Test the gauge for freedom of movement of the top plate. To do this place it on a flat surface and ensure that the top plate moves freely from side to side.

Carry out the wheel alignment tests on flat and level ground, preferably a clean concrete or smooth flat asphalt surface.

Instructions for use:

- Position the vehicle facing straight ahead and with the steering straight ahead too.
- Ensure that the steering is straight by driving forward and back a couple of times, and checking that the vehicle steers neither to the left nor to the right.
- Gently rock the vehicle up and down to settle the suspension.
- Remove hands from steering wheel, and carefully and slowly drive forward for 2 or 3 meters so that any backlash in the vehicles steering and suspension joints is taken up.
- Stop the vehicle using as little braking as possible. Do not allow to roll back.
- Place the gauge on the ground in front of either one of the vehicle's front wheels with the dial facing outwards.
- Set the pointer of the gauge to zero.
- Slowly drive the vehicle over the gauge, while touching neither the brakes nor the steering wheel.

- Drive slowly, steadily and positively until the wheel completely clears the gauge.
- Stop.
- Note the amount of misalignment from the position of the pointer on the scale.
- Repeat the test using the other front (or adjustable back) wheel to confirm the result obtained, remembering to zero the pointer before the test.
- A consistent reading in the red band clearly indicates unsatisfactory wheel alignment.



Important Notes:

– please read before continuing

If the pointer consistently moves to the “RED” area of the dial, then adjustment of the track rods is necessary. This applies to all vehicles regardless of type of tyre fitted, or whether any modification has been made to the suspension. More than one adjustment may be necessary to establish a zero reading.

If the reading from one front wheel consistently differs with the reading from the other front wheel, the possible causes are:

- Tests carried out on non-level floor.
- Unequal tyre pressures.
- Unequal tyre wear or tread patterns.
- Worn steering joints.
- Rear wheel/axle misalignment.

If inconsistent readings are obtained on the same wheel, the possible causes are:

- Uneven floor.
- Steering wheel moved during test.
- Jerky forward speed.
- Not enough forward travel before meeting the gauge.
- Not “settling” the suspension before the tests.
- Allowing the vehicle to roll back during the test.
- Excessive wear in steering and wheel components.
- Excessive and uneven tyre wear.

Cleaning Instructions:

The gauge may become contaminated with dirt, which may penetrate beneath the top plate, and result in reduced freedom of the top plate to move from side to side. It then needs dismantling and cleaning.

Dismantling the gauge requires no tools, and is easily accomplished as follows.

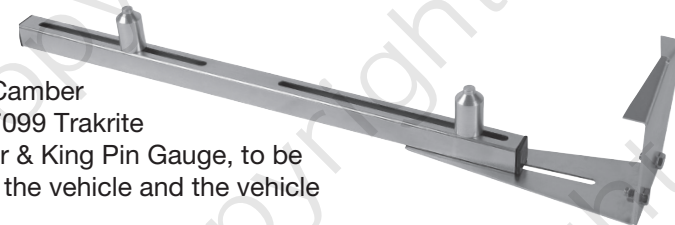
- Gently bend the whole product into a slight curved shape by pressing down on the two ramps (one on either side of the product), while supporting the product in the centre beneath and bending it in this way, slide the top plate towards the pointer.
- At the correct degree of “bend”, the top plate will slide right out.
- With the top plate removed, the “fret” framework will be seen, in which are narrow cavities containing nylon rollers.
- Remove all the rollers, and wash the whole product: rollers, fret, pointer, top plate and baseplate, in warm soapy water.
- Carefully dry each component and examine for wear.
- Particularly examine the rollers for signs of damage and “flats”.
- Spare parts are available from The Tool Connection Ltd.
- Re-assemble with the pointer positioned pointing to the extreme right, before slightly bending the product to allow the top plate to be moved back into place.



Also available in the Trakrite range:

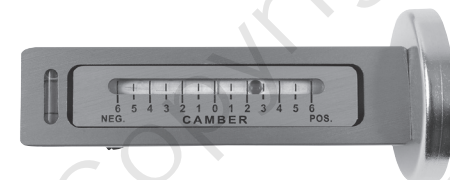
Gunson Trakrite Camber Bar (Part Number 77137)

Designed to allow the Gunson 77066 Trakrite Camber Gauge or the Gunson 77099 Trakrite Magnetic Camber Castor & King Pin Gauge, to be used with the wheels on the vehicle and the vehicle sitting on the ground.



Gunson Trakrite Camber Gauge (Part Number 77066)

Measures the camber and caster angle on the wheel hub or brake disc and allows adjustment to maintain correct wheel alignment and even tyre wear. A useful tool to maintain the correct camber setting after dismantling and re-assembling the suspension.



Gunson Trakrite Camber, Castor and King Pin Gauge (Part Number 77099)

Camber gauge with fixed graduation from +5 degrees to -5 degrees, castor gauge graduated from +11 degrees to -3 degrees and King Pin gauge from 0 to 14 degrees left to right.



Also available from Gunson:

Gunson Steering Turntables (Part Number 77100)

Competitively priced pair of turntables for checking the tracking on modern vehicles. Use in conjunction with Gunson 77099 Trakrite camber, castor and King Pin gauge.



Our products are designed to be used correctly and with care for the purpose for which they are intended. No liability is accepted by the Tool Connection for incorrect use of any of our products, and the Tool Connection cannot be held responsible for any damage to personnel, property or equipment when using the tools. Incorrect use will also invalidate the warranty.

If applicable, the applications database and any instructional information provided has been designed to offer general guidance for a particular tool's use and while all attention is given to the accuracy of the data no project should be attempted without referring first to the manufacturer's technical documentation (workshop or instruction manual) or the use of a recognised authority such as Autodata.

It is our policy to continually improve our products and thus we reserve the right to alter specifications and components without prior notice. It is the responsibility of the user to ensure the suitability of the tools and information prior to their use.



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www.gunson.co.uk

Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186**. Normal wear and tear are excluded as are consumable items and abuse.



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