

QUESTIONS ABOUT FOUR WHEEL ALIGNMENT

What is Four Wheel Alignment?

Adjustment of the vehicles front and rear suspension and geometry to give you correct handling of the vehicle, optimum tyre wear and fuel consumption.

When should I have my car aligned?

It is recommended that the alignment should be carried out every 10,000 miles or once a year, depending on how the vehicle has been driven.

Why is my steering wheel not straight?

This is normally due to the front or rear alignment being unsymmetrical and requiring adjustment.

Why is my car pulling to the left or right?

This is normally caused by unevenly worn tyres or unequal caster settings.

Does having worn tyres mean that my car can't be aligned or do new tyres need to be fitted?

Having new or old tyres fitted will make no difference to the alignment readings, however unevenly worn tyres could have an effect on the way the car feels and handles, even after the wheel alignment has been corrected.

WHERE QUALITY COSTS LESS



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ALL YOU SHOULD KNOW ABOUT WHEEL ALIGNMENT



Does your car wander or drift to one side?

Is your steering wheel incorrectly aligned?

Do you have uneven tyre wear?

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FACTS ABOUT FOUR WHEEL ALIGNMENT

Extend Tyre Life

On today's cars, with road surfaces in such poor condition, correct alignment applies to both the rear tyres as well as the front. The most common cause of tyre wear is due to improper alignment. Over the years, a correctly aligned vehicle can save hundreds of pounds in tyre wear.

Increases Fuel Economy

Fuel mileage increases as rolling resistance decreases. Four wheel alignment aligns all four wheels parallel which in turn, assures minimum rolling resistance. This plus correct tyre inflation provide top efficiency for maximum fuel consumption.

Correct Handling

Does your car pull to one side, does the steering wheel vibrate, and do you have to constantly correct the steering wheel to keep your car travelling straight ahead? These and other handling problems can generally be corrected by four wheel alignment.

Component Inspection and Safer Driving

A suspension system inspection is an inherent part of the four wheel alignment process. This gives the technician the opportunity to report worn parts that would affect the vehicles alignment. It also allows the technician to spot small problems before they become large and expensive problems.

THE MAJOR ALIGNMENT PARAMETERS ON A CAR ARE:

Front and Rear Wheel Toe:

A positive toe indicates that the leading edge of the wheel is pointing inwards towards the geometric centreline. A negative toe indicates that the leading edge of the wheel is pointing away from the geometric centreline.

Camber Angle:

The camber angle is measured from the gravity vertical line to the wheel plane. When the road wheel is tilted outwards, the camber is positive; when tilted inwards, the camber is negative.

Caster Angle:

The caster angle positions the pivot point on which the wheel turns on top of the tyre contact patch. This gives the wheel an inherent self-centring effect as the wheel is drawn ahead instead of being pushed. It is important that the caster angles on both front wheels are the same to avoid unstable steering.

Suspension:

Suspension is a complex part of the modern car. Wear and misalignment increases tyre wear and can seriously affect vehicle performance, handling and fuel consumption.



KEEP TRACK OF YOUR TYRES

Registration:.....
 Make:.....
 Model:
 Vin No:.....

Tyre Size (Front)

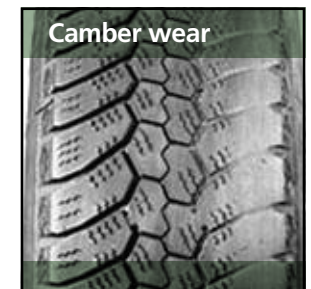
Tyre Size (Rear)

Front tyre pressure

Rear tyre pressure



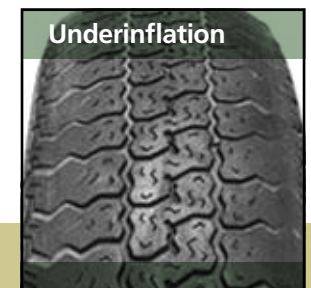
Illegal wear



Camber wear



Misalignment



Underinflation

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