

Wheel alignment specifications

Saloon and Avant (front-wheel drive and four-wheel drive)

These specifications are applicable for all engines.

Front axle	Standard running gear (1BA); heavy-duty running gear, China (1BB)	Sports running gear (1BE); sports running gear, quattro GmbH (1BV)	Sports running gear (1BD); standard running gear, quattro GmbH RS 4 (2MC)	Comfort / heavy-duty running gear (1BR)	Sports running gear, quattro GmbH RS 4 (2ME)
Camber	- 33' ± 25'	- 47' ± 25'	- 51' ± 25'	- 21' ± 25'	- 76' ± 25'
Maximum permissible difference between left and right	30'	30'	30'	30'	30'
Toe angle at each wheel (specification when making adjustment, suspension in initial position)	+ 10' ± 2'	+ 10' ± 2'	+ 10' ± 2'	+ 10' ± 2'	+ 10' ± 2'
Toe angle at each wheel (specification when checking adjustment, suspension in initial position)	+ 10' ± 5'	+ 10' ± 5'	+ 10' ± 5'	+ 10' ± 5'	+ 10' ± 5'
Toe-constant for each wheel (specification when making adjustment)	+ 9' ± 2' → Remark + 14' ± 2' → Remark	+ 9' ± 2' → Remark + 14' ± 2' → Remark	+ 14' ± 2'	+ 9' ± 2' → Remark + 14' ± 2' → Remark	+ 14' ± 2'
Toe-constant for each wheel (specification when checking adjustment)	+ 9' ± 7' → Remark + 14' ± 7' → Remark	+ 9' ± 7' → Remark + 14' ± 7' → Remark	+ 14' ± 7'	+ 9' ± 7' → Remark + 14' ± 7' → Remark	+ 14' ± 7'
Permissible difference between left and right toe-constant	max. 10'	max. 10'	max. 10'	max. 10'	max. 10'
Toe-out on turns at 20 degrees steering angle → Remark	1° 6' ± 30'	1° 6' ± 30'	1° 6' ± 30'	1° 6' ± 30'	1° 6' ± 30'

- 1) These values apply from market introduction of saloon up to vehicle identification number 8E_2_025687.

- 2) These values apply to Avant models and to saloon from vehicle identification number 8E_2_025688 onwards.

The wheel on the outside of a curve is turned in less than the inside wheel. This value shows

- 3) the difference in the steering angles. It can be displayed as a negative value on the wheel alignment computer, depending on the manufacturer.

Rear axle	Standard running gear (1BA); heavy-duty running gear, China (1BB)	Sports running gear (1BE); sports running gear, quattro GmbH (1BV)	Sports running gear (1BD); standard running gear, quattro GmbH RS 4 (2MC)	Comfort / heavy-duty running gear (1BR)	Sports running gear, quattro GmbH RS 4 (2ME)
Camber	- 1° 20' ± 30'	- 1° 20' ± 30'	- 1° 20' ± 30'	- 1° 20' ± 30'	- 1° 20' ± 30'
Maximum permissible difference between left and right	30'	30'	30'	30'	30'
Total toe	+ 20' ± ^{10'} _{5'}	+ 20' ± ^{10'} _{5'}	+ 20' ± ^{10'} _{5'}	+ 20' ± ^{10'} _{5'}	+ 20' ± ^{10'} _{5'}
Toe setting at each wheel	+ 10' ± ^{5'} _{2.5'}	+ 10' ± ^{5'} _{2.5'}	+ 10' ± ^{5'} _{2.5'}	+ 10' ± ^{5'} _{2.5'}	+ 10' ± ^{5'} _{2.5'}
Maximum permissible deviation in direction of travel relative to longitudinal axis of vehicle	7'	7'	7'	7'	7'

Additional data for vehicles with front-wheel drive and four-wheel drive:

The additional data listed here are intended only to facilitate diagnosis after an accident.

Table → [Chapter](#)

Cabriolet (front-wheel drive and four-wheel drive)

These specifications are applicable for all engines.

Front axle	Standard running gear (1BA)	Sports running gear (1BE/1BV)	Sports running gear (1BD); standard running gear, quattro GmbH RS 4 (2MC)
Camber	- 47' ± 25'	- 47' ± 25'	- 51' ± 25'
Maximum permissible difference between left and right	30'	30'	30'
Toe angle at each wheel (specification when making adjustment, suspension in initial position)	+ 10' ± 2'	+ 10' ± 2'	+ 10' ± 2'
Toe angle at each wheel (specification when checking adjustment, suspension in initial position)	+ 10' ± 5'	+ 10' ± 5'	+ 10' ± 5'

Toe-constant for each wheel (specification when making adjustment)	+ 14' ± 2'	+ 14' ± 2'	+ 14' ± 2'
Toe-constant for each wheel (specification when checking adjustment)	+ 14' ± 7'	+ 14' ± 7'	+ 14' ± 7'
Permissible difference between left and right toe-constant	max. 10'	max. 10'	max. 10'
Toe-out on turns at 20 degrees steering angle → Remark	1° 6' ± 30'	1° 6' ± 30'	1° 6' ± 30'

- The wheel on the outside of a curve is turned in less than the inside wheel. This value shows
- 4) the difference in the steering angles. It can be displayed as a negative value on the wheel alignment computer, depending on the manufacturer.

Rear axle	Standard running gear (1BA)	Sports running gear (1BE/1BV)	Sports running gear (1BD); standard running gear, quattro GmbH RS 4 (2MC)
Camber	- 1° 20' ± 30'	- 1° 20' ± 30'	- 1° 20' ± 30'
Maximum permissible difference between left and right	30'	30'	30'
Total toe	+ 20' ± ^{10'} _{5'}	+ 20' ± ^{10'} _{5'}	+ 20' ± ^{10'} _{5'}
Toe setting at each wheel	+ 10' ± ^{5'} _{2.5'}	+ 10' ± ^{5'} _{2.5'}	+ 10' ± ^{5'} _{2.5'}
Maximum permissible deviation in direction of travel relative to longitudinal axis of vehicle	10'	10'	7'

Additional data for vehicles with front-wheel drive and four-wheel drive:

The additional data listed here are intended only to facilitate diagnosis after an accident.

Table → [Chapter](#)