

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 RS4 (2MC) | Comfort / heavy-duty running gear (1BR) | Sports running gear, quattro GmbH RS4 (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' → Note + 14' ± 2' → Note | + 9' ± 2' → Note + 14' ± 2' → Note | + 14' ± 2' | + 9' ± 2' → Note + 14' ± 2' → Note | + 14' ± 2' |
| Toe-constant for each wheel (specification when checking adjustment) | + 9' ± 7' → Note + 14' ± 7' → Note | + 9' ± 7' → Note + 14' ± 7' → Note | + 14' ± 7' | + 9' ± 7' → Note + 14' ± 7' → Note | + 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 → Note | 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 VIN 8E_2_025687.

2) These values apply to Avant models and to saloon as of VIN 8E_2_025688.

3) The wheel on the outside of a curve is turned in less than the inside wheel. This value shows 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 RS4 (2MC) | Comfort / heavy-duty running gear (1BR) | Sports running gear, quattro GmbH RS4 (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.

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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) |
|--|-----------------------------|---------------------------|
| Camber | - 47' ± 25' | - 47' ± 25' |
| Maximum permissible difference between left and right | 30' | 30' |
| Toe angle at each wheel (specification when making adjustment, suspension in initial position) | + 10' ± 2' | + 10' ± 2' |
| Toe angle at each wheel (specification when checking adjustment, suspension in initial position) | + 10' ± 5' | + 10' ± 5' |
| Toe-constant for each wheel (specification when making adjustment) | + 14' ± 2' | + 14' ± 2' |
| | | |

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

- 4) The wheel on the outside of a curve is turned in less than the inside wheel. This value shows 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) |
|---|---------------------------------------|---------------------------------------|
| Camber | - 1° 20' ± 30' | - 1° 20' ± 30' |
| Maximum permissible difference between left and right | 30' | 30' |
| Total toe | + 20' ± ^{10'} _{5'} | + 20' ± ^{10'} _{5'} |
| Toe setting at each wheel | + 10' ± ^{5'} _{2.5'} | + 10' ± ^{5'} _{2.5'} |
| Maximum permissible deviation in direction of travel relative to longitudinal axis of vehicle | 10' | 10' |

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](#)