

44-4 Wheels, Tires, Wheel Alignment

Wheel Alignment

Table b. Wheel Alignment Data—Rear Suspension

Suspension (version)	Standard (FWD)	Sport (FWD)	Standard (AWD)	Sport (AWD)
PR number (from vehicle data label)	G17, G78, G79, G91, G97	PQZ, G98	G17, G78, G79, G91, G97	PQZ, G98
Camber (only adjustable on AWD)	-2° ± 20'	-2° ± 20'	see Rear suspension height and camber values table	
Maximum permissible difference between left and right	max. 30'	max. 30'	max. 20'	max. 20'
Toe setting at each wheel (only adjustable on AWD)	+14' ± 5'	+19.5' ± 5'	+7.5' ^{+7.5'} / _{-5'}	+7.5' ^{+7.5'} / _{-5'}
Total toe (with specified camber)	+28' ± 10'	+39' ± 10'	+15' ^{+15'} / _{-10'}	+15' ^{+15'} / _{-10'}
Maximum permissible deviation from direction of travel (thrust angle)	max. 15'	max. 15'	max. 20'	max. 20'

Alignment adjustments

Alignment should be checked whenever the vehicle is not tracking properly, if there is uneven tire wear, if suspension damage is suspected, or if a repair may have altered the alignment.

The procedural information provided below details how the various alignment adjustments are achieved with the use of special alignment tools. Accurate wheel alignment is best performed by your Audi dealer or certified alignment shop.

Requirements

- Install brake pedal depressor.
- Make sure no one is in vehicle during alignment.
- Check wheel rim runout.

NOTE —

- *A certain amount of lateral runout at the wheel rims is permissible, but this may already exceed the specified toe-in tolerance. In such cases it is not possible to correctly set the toe-in without performing the wheel runout compensation.*

Order of work

1. Check camber at front wheels and center if necessary.
2. Check camber at rear wheels.
3. Check toe setting at rear wheels and adjust if necessary.
 - The toe setting at the rear wheels is not adjustable on vehicles with front wheel drive.
4. Check toe setting at front wheels and adjust if necessary.
5. If settings have been altered at the front wheels, perform zero position compensation for steering angle sensor (G85) using a diagnostic scan tool.
 - Only for vehicles with Electronic Stability Program (ESP)