

H. Adjustment of Wheels

Values for Adjustment of Wheels with Vehicle Ready for Driving¹⁾²⁾

Model	280 S/8 280 SE/8 280 SEL/8 280 SE/9 3.5	280 SL/8	300 SEL/8 300 SEL/9 3.5	300 SEL/8 6.3
Front wheel camber	+ 0°30' - 20'	+ 0°10' + 20'	+ 0°20' - 20'	
Toe-in (rolled average)	2 ± 1 mm or 0°20' ± 10' ²⁾			
Track difference angle at 20° lock of inner wheel	approx. -0°30' ± 40'			approx. 0°50' ± 40'
Caster	with manual steering	3°30' ± 15'		
	with power steering	4° ± 15'		6° ± 30'
KPI	5°30'		5°40'	
Control arm position of front axle (difference in height "a" between inner and outer bearing bolt of lower control arm refer to Fig. 40-6/1)	Refer to Section "G. Vehicle Level"			
Perm. difference of control arm position between left and right	5 mm			
Pivot point position = distance "A" (practically not measurable) between axis of lower control arm bearing and center of ball joint on track rod on steering arm and intermediate steering lever	48.5 $\begin{smallmatrix} + 2 \\ - 4 \end{smallmatrix}$ mm	44.5 $\begin{smallmatrix} + 1 \\ - 5 \end{smallmatrix}$ mm	48.5 $\begin{smallmatrix} + 2 \\ - 4 \end{smallmatrix}$ mm	45 $\begin{smallmatrix} + 2 \\ - 4 \end{smallmatrix}$ mm
Pivot point position = distance "a" (check with fixture 108 589 02 21 00) between axis of lower control arm bearing and bottom edge of ball pin on steering arm and intermediate steering lever (steering arm or intermediate steering lever swivelled to center of control arm bearing bolt)	4 $\begin{smallmatrix} + 2 \\ - 4 \end{smallmatrix}$ mm	0 $\begin{smallmatrix} + 1 \\ - 5 \end{smallmatrix}$ mm	4 $\begin{smallmatrix} + 2 \\ - 4 \end{smallmatrix}$ mm	0.5 $\begin{smallmatrix} + 2 \\ - 4 \end{smallmatrix}$ mm
Permissible deviation in height of ball point position between steering arm and intermediate steering arm	4 mm			
Permissible difference of axle base between right and left	Rear axle	5 mm		
	Front axle	3 mm		
Camber of rear wheels	Refer to Section "G. Vehicle Level"			
Permissible toe-in (+) or toe-out (-) of rear wheels	± 2 mm or ± 0°20'			

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Distance of pivot point of rear axle supporting tubes from vehicle center	36 mm			
Permissible deviation of rear axle from center position	2 mm			

1) Measure vehicle only in condition ready for driving.

To check the vehicle level on the rear axle on vehicles with hydropneumatic compensating spring under load, loading the rear end of vehicle or trunk will be adequate (refer to Section "G. Vehicle Level").

2) Try for toe-in of 2 mm or 0° 20'.

3) Deduct toe-in value obtained during measurements from measured track differential angle.

Change of Control Arm Position on Front Axle

Model 280 S/8, 280 SE/8, 280 SEL/8, 280 SL/8, 280 SE/9 3.5

Change of difference in height "a" (refer to Fig. 40-6/1)

Changing the rubber mount for front spring by	results in a change of the difference in height "a" of
2 mm	approx. 4 mm
2.5 mm	approx. 5 mm

Adjustment of Rear Wheel Camber

Model 280 S/8, 280 SE/8, 280 SEL/8, 280 SL/8, 280 SE/9 3.5

Changing the camber by adjusting spring retainer by 1 notch (2 mm)	approx. 0°10'
Changing the camber by installing a lower or higher upper rubber mount (6 mm)	approx. 0°30'
Changing the rear wheel camber on vehicles with hydropneumatic compensating spring with the vehicle under load	
Changing the rear wheel camber by installing a washer Part No. 108 326 00 76, 3 mm thick, or a lefthand ball joint on hydropneumatic compensating spring longer by 3 mm	approx. 0°30'

Adjustment of Front Wheel Camber

Cam adjustment on steering knuckle		Additional adjustment of camber on bearing bolt of upper control arm by means of washers	
Adjusting range of cam ¹⁾	Change of camber on wheel	Thickness of washer	Change of camber on wheel by 1 washer
± 2.5 mm	approx. ± 0°35'	1.0 mm	approx. ± 0°15'
		2.0 mm	approx. ± 0°30'

¹⁾ The highest position of cam is marked by a notch on the hexagon head.

Adjustment of Caster

<p>Adjustment of caster on steering knuckle</p> <p>Perm. adjustment of threaded bushing toward both sides</p>	<p>Change of caster on wheel</p>	<p>Adjustment of caster by means of cam on leaf springs supporting front axle</p> <p>Adjustment on leaf spring by 1 mm provides change of caster on wheel of</p>	<p>Total adjusting capacity of caster by cam</p>
<p>1.5 mm</p>	<p>approx. $\pm 0^{\circ}20'$</p>	<p>approx. $0^{\circ}10'$</p>	<p>approx. 1° in plus direction approx. $0^{\circ}30'$ in minus direction</p>