

# WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

## Article Text

1991 Volkswagen Vanagon  
For Volkswagen Technical Site  
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Saturday, March 18, 2000 09:55PM

### ARTICLE BEGINNING

1990-91 WHEEL ALIGNMENT  
Specifications & Procedures

1990-91 Passat  
1991 Cabriolet, Corrado, Fox, Golf, GTI, Jetta, Vanagon

### PRE-ALIGNMENT INSTRUCTIONS

NOTE: Prior to performing wheel alignment, perform preliminary visual and mechanical inspection of wheels, tires and suspension components. See ALIGNMENT THEORY/OPERATION in the WHEEL ALIGNMENT Section.

### RIDING HEIGHT ADJUSTMENT

NOTE: On vehicles with electronic chassis controls, all systems should be functional before attempting riding height or wheel alignment adjustment.

Before adjusting alignment, ensure difference in riding height between left and right sides of vehicle is less than 1" (25.4 mm). Riding height must be checked with vehicle on level floor and tires properly inflated. Bounce vehicle several times and allow suspension to settle.

Visually inspect vehicle for signs of abnormal height from front to rear or side to side. Check passenger and luggage compartments for extra heavy items and remove if present. If difference in riding height between left and right sides of vehicle is NOT less than 1" (25.4 mm), check suspension components and repair or replace as necessary.

### WHEEL ALIGNMENT SPECIFICATIONS

#### WHEEL ALIGNMENT SPECIFICATIONS TABLE

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Application	Preferred	Range
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Cabriolet

Camber (1)

Front	5/16	-3/16 To 13/16
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Rear	-1 1/4	-1 13/16 To -11/16
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Caster (1)	1 3/16	1 5/16 To 2 5/16
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Toe-In (2)

Front	-1/8 (-3)	-3/16 To -1/16 (-4.5 To -1.5)
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Rear	5/32 (4)	1/32 To 9/32 (1 To 7)
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Toe-In (1)

Front	-1/4	-3/8 To -1/8
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Rear	5/16	1/16 To 9/16
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Toe-Out On Turns (1)

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Inner	.....	20	.....	.....
Outer	.....	18 1/2	.....	.....
Corrado				
Camber (1)				
Front	.....	-21/32	.....	-1 To -5/16
Rear	.....	-1/2	.....	-1 21/32 To -1 11/32
Caster (1)	.....	1 19/32	.....	1 3/32 To 2 3/32
Toe-In (2)				
Front	.....	0 (0)	.....	-3/32 To 3/32 (-2.5 To 6.5)
Rear	.....	5/32 (4)	.....	1/16 To 1/4 (1.5 To 6.5)
Toe-In (1)				
Front	.....	0	.....	-5/32 To 5/32
Rear	.....	11/32	.....	3/16 To 1/2
Fox (Except Wagon)				
Camber (1)				
Front	.....	-1/2	.....	-13/16 To -3/16
Rear	.....	-1 1/2	.....	-2 To -1
Caster (1)	.....	2	.....	1 11/16 To 2 5/16
Toe-In (2)				
Front	.....	-1/16 (-1.5)	.....	-1/8 To 0 (-3 To 0)
Rear	.....	7/32 (5.5)	.....	1/8 To 9/32 (3 To 7)
Toe-In (1)				
Front	.....	-1/8	.....	-1/4 To 0
Rear	.....	7/16	.....	1/4 To 9/16
Fox Wagon				
Camber (1)				
Front	.....	-1/2	.....	-13/16 To 3/16
Rear	.....	-1 1/2	.....	-2 To 1
Caster (1)	.....	1 3/4	.....	1 7/16 To 2 1/16
Toe-In (2)				
Front	.....	-1/16 (-1.5)	.....	-1/8 To 0 (-3 To 0)
Rear	.....	5/32 (4)	.....	1/16 To 1/4 (1.5 To 6.5)
Toe-In (1)				
Front	.....	-1/8	.....	-1/4 To 0
Rear	.....	5/16	.....	1/8 To 1/2
Golf & Jetta (Except GLi)				
Camber (1)				
Front	.....	-7/16	.....	-3/4 To -1/8
Rear	.....	-1 11/16	.....	-2 To -1 3/8
Caster (1)	.....	1 1/2	.....	1 To 2
Toe-In (2)				
Front	.....	0 (0)	.....	-1/16 To 1/16 (-1.5 To 1.5)
Rear	.....	7/32 (5.5)	.....	1/8 To 5/16 (3 To 8)
Toe-In (1)				
Front	.....	0	.....	-1/8 To 1/8
Rear	.....	7/16	.....	1/4 To 5/8
GTI & Jetta GLi				
Camber (1)				
Front	.....	-9/16	.....	-7/8 To -1/4
Rear	.....	-1 11/16	.....	-2 To -1 3/8
Caster (1)	.....	1 9/16	.....	1 1/16 To 2 1/16

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Toe-In (2)			
Front	..... 0 (0)	.	-1/16 To 1/16 (-1.5 To 1.5)
Rear	..... 7/32 (5.5)	.....	1/8 To 5/16 (3 To 8)
Toe-In (1)			
Front	..... 0	.....	-1/8 To 1/8
Rear	..... 7/16	.....	1/4 To 5/8
Passat			
Camber (1)			
Front	..... -1 11/32	.....	-1 11/16 To -1
Rear	..... -1 21/32	.....	-2 To -1 5/16
Caster (1)	..... 1 21/32	.....	1 5/32 To 2 5/32
Toe-In (2)			
Front	..... 0 (0)	.....	-3/32 To 3/32 (-2.5 To 2.5)
Rear	..... 7/32 (5.5)	...	3/32 To 11/32 (2.5 To 8.5)
Toe-In (1)			
Front	..... 0	.....	-5/32 To 5/32
Rear	..... 13/32	.....	5/32 To 21/32
Toe-Out On Turns (1)	.... N/A	.....	
Vanagon (Except Syncro)			
Camber (1)			
Front	..... 0	.....	-1/2 To 1/2
Rear	..... -13/16	.....	-1 5/16 To 5/16
Caster (1)	..... 7 1/4	.....	7 To 7 1/2
Toe-In (2)			
Front	..... 5/32 (4)	.....	1/32 To 9/32 (1 To 7)
Rear	..... 0 (0)	.....	-5/32 To 5/32 (-4 To 4)
Toe-In (1)			
Front	..... 5/16	.....	1/16 To 9/16
Rear	..... 0	.....	-5/16 To 5/16
Vanagon (Syncro)			
Camber (1)			
Front	..... 5/16	.....	0 To 5/8
Rear	..... -1/4	.....	-7/16 To -1/16
Caster (1)	..... 4 5/8	.....	4 3/8 To 4 7/8
Toe-In (2)			
Front	..... 0 (0)	.....	-1/8 To 1/8 (-3 To 3)
Rear	..... 1/16 (1.5)	...	-1/16 To 3/16 (-1.5 To 4.5)
Toe-In (1)			
Front	..... 0	.....	-1/4 To 1/4
Rear	..... 1/8	.....	-1/8 To 3/8

(1) - Measurement in degrees.

(2) - Measurement in inches (mm).

AA

END OF ARTICLE