

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

Article Text

1991 Volkswagen Passat
For Volkswagen Technical Site
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Wednesday, August 25, 1999 09:08PM

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

Application Preferred Range

Cabriolet

Camber (1)

Front 5/16 -3/16 To 13/16

Rear -1 1/4 -1 13/16 To -11/16

Caster (1) 1 3/16 1 5/16 To 2 5/16

Toe-In (2)

Front -1/8 (-3) .. -3/16 To -1/16 (-4.5 To-1.5)

Rear 5/32 (4) 1/32 To 9/32 (1 To 7)

Toe-In (1)

Front -1/4 -3/8 To -1/8

Rear 5/16 1/16 To 9/16

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