

# Suspension System - General Information -

## Lubricants, Fluids, Sealants and Adhesives

Unit	Specification
Loctite	270
Grease	Shell Retinax 'A'
Grease	Castrol 'NTR'

## Front Suspension Dimensions

- NOTE: When a component reaches its maximum / minimum dimension limit the component must be replaced.

Component	Dimension
Hub face - maximum run-out	0.038 mm

## Rear suspension Dimensions

- NOTE: When a component reaches its maximum / minimum dimension limit the component must be replaced.

Component	Dimension
Hub face - maximum run-out	0.057 mm

## Vehicle ride height

Model	Model Year	VIN RANGE		Market	Showroom mm(in)		Curb mm(in)	
		From	To		Front	Rear	Front	Rear
Comfort suspension	1998 to 2003.5	812317	F59525	All	390 (15.11)	384 (15.11)	389 (15.31)	373 (14.68)
Sport suspension	"	"	"	All	389 (15.31)	381 (15.00)	388 (15.27)	372 (14.64)
XJR	"	"	"	NAS	389 (15.31)	382 (15.03)	388 (15.27)	372 (14.64)
XJR	"	"	"	ROW	367 (14.44)	365 (14.37)	366 (14.40)	358 (14.09)
Supercharged super 8	"	"	"	All	389 (15.31)	382 (15.03)	388 (15.27)	372 (14.64)

- Ride height is measured from the center of the wheel to the apex of the wheel arch, through the wheel center line.
- Showroom is with all fluids at full and 9 liters (9.5 US quarts) of fuel.
- Curb is with all fluids at full and a full tank of fuel.
- All figures quoted assume a  $\pm 15$  mm (0.59in) anticipated build variance and condition.

## Wheel Alignment - Front Camber - XJR Excluding NAS, and German Super-8

XJR Excluding NAS, and German Super-8								
1998 to 2003.5 VIN - 812317 to F59525	Units	Camber						Balance (RH - LH)
				Left - Hand		Right - Hand		
		Min	Max	Min	Max	Min	Max	
All Right-Hand drive and Japan	Degrees/minutes	-1° 28'	-0° 28'	-1° 13'	-0° 13'	-0° 45'	+1° 15'	
	Decimal degrees	-1.47°	-0.47°	-1.22°	-0.22°	-0.75°	+1.25°	
Rest of World	Degrees/minutes	-1° 13'	-0° 13'	-1° 28'	-0° 28'	-1° 15'	+0° 45'	
	Decimal degrees	-1.22°	-0.22°	-1.47°	-0.47°	-1.25°	+0.75°	

- All the above figures are at "showroom" height. (See ride height section above).
- Tires must be inflated to normal pressure.
- For additional information, refer to Section [204-04 Wheels and Tires](#).

## Wheel Alignment - Front Camber - XJR NAS, and Comfort/Sport/Daimler Super-8

XJR NAS, and Comfort/Sport/Daimler Super-8								
1998 to 2003.5 VIN - 812317 to F59525	Units	Camber						Balance (RH - LH)
				Left - Hand		Right - Hand		
		Min	Max	Min	Max	Min	Max	
All Right-Hand drive and Japan	Degrees/minutes	-1° 02'	-0° 02'	-0° 47'	+0° 13'	-0° 45'	+1° 15'	
	Decimal degrees	-1.03°	-0.03°	-0.78°	+0.22°	-0.75°	+1.25°	
USA, Canada and Mexico, Dominican Republic (NAS)	Degrees/minutes	-0° 32'	+0° 28'	-1° 02'	-0° 02'	-1° 30'	+0° 30'	
	Decimal degrees	-0.53°	+0.47°	-1.03°	-0.03°	-1.50°	+0.50°	
Rest of World	Degrees/minutes	-0° 47'	+0° 13'	-1° 02'	-0° 02'	-1° 15'	+0° 45'	
	Decimal degrees	-0.78°	+0.22°	-1.03°	-0.03°	-1.25°	+0.75°	

- All the above figures are at "showroom" height. (See ride height section above).
- Tires must be inflated to normal pressure.  
For additional information, refer to Section [204-04 Wheels and Tires](#).

**Wheel Alignment - Front Castor - XJR Excluding NAS, and German Super-8**

XJR Excluding NAS, and German Super-8								Balance (RH - LH)
1998 to 2003.5 VIN - 812317 to F59525	Units	Castor						
				Left - Hand		Right - Hand		
		Min	Max	Min	Max	Min	Max	
All Right-Hand drive and Japan	Degrees/minutes	+4° 00'	+8° 00'	+4° 00'	+8° 00'	-1° 12'	+1° 12'	
	Decimal degrees	+4.00°	+8.00°	+4.00°	+8.00°	-1.20°	+1.20°	
Rest of World	Degrees/minutes	+4° 00'	+8° 00'	+4° 00'	+8° 00'	-1° 12'	+1° 12'	
	Decimal degrees	+4.00°	+8.00°	+4.00°	+8.00°	-1.20°	+1.20°	

- All the above figures are at "showroom" height. (See ride height section above).
- Tires must be inflated to normal pressure.  
For additional information, refer to Section [204-04 Wheels and Tires](#).

**Wheel Alignment - Front Castor - XJR NAS, and Comfort/Sport/Daimler Super-8**

XJR NAS, and Comfort/Sport/Daimler Super-8								Balance (RH - LH)
1998 to 2003.5 VIN - 812317 to F59525	Units	Castor						
				Left - Hand		Right - Hand		
		Min	Max	Min	Max	Min	Max	
All Right-Hand drive and Japan	Degrees/minutes	+4° 00'	+8° 00'	+4° 00'	+8° 00'	-1° 12'	+1° 12'	
	Decimal degrees	+4.00°	+8.00°	+4.00°	+8.00°	-1.20°	+1.20°	
USA, Canada and Mexico, Dominican Republic (NAS)	Degrees/minutes	+4° 00'	+8° 00'	+4° 00'	+8° 00'	-1° 12'	+1° 12'	
	Decimal degrees	+4.00°	+8.00°	+4.00°	+8.00°	-1.20°	+1.20°	
Rest of World	Degrees/minutes	+4° 00'	+8° 00'	+4° 00'	+8° 00'	-1° 12'	+1° 12'	
	Decimal degrees	+4.00°	+8.00°	+4.00°	+8.00°	-1.20°	+1.20°	

- All the above figures are at "showroom" height. (See ride height section above).
- Tires must be inflated to normal pressure.  
For additional information, refer to Section [204-04 Wheels and Tires](#).

**Wheel Alignment - Front Toe - XJR Excluding NAS, and German Super-8**

XJR Excluding NAS, and German Super-8				Total Toe
1998 to 2003.5 VIN - 812317 to F59525	Units	Front Toe		
		Min	Max	
		All Right-Hand drive and Japan	Degrees/minutes	0° 05'
Decimal degrees	0.08°		+0.42°	
Rest of World	Degrees/minutes	0° 05'	+0° 25'	
	Decimal degrees	0.08°	+0.42°	

- All the above figures are at "showroom" height. (See ride height section above).
- Tires must be inflated to normal pressure.  
For additional information, refer to Section [204-04 Wheels and Tires](#).

**Wheel Alignment - Front Toe - XJR NAS, and Comfort/Sport/Daimler Super-8**

XJR NAS, and Comfort/Sport/Daimler Super-8				Total Toe
1998 to 2003.5 VIN - 812317 to F59525	Units	Front Toe		
		Min	Max	
		All Right-Hand drive and Japan	Degrees/minutes	0° 05'
Decimal degrees	0.08°		+0.42°	
USA, Canada and Mexico, Dominican Republic (NAS)	Degrees/minutes	0° 05'	+0° 25'	
	Decimal degrees	0.08°	+0.42°	
Rest of World	Degrees/minutes	0° 05'	+0° 25'	
	Decimal degrees	0.08°	+0.42°	

- All the above figures are at "showroom" height. (See ride height section above).
- Tires must be inflated to normal pressure.  
For additional information, refer to Section [204-04 Wheels and Tires](#).

1998 to 2003.5  
VIN - 812317 to F59525  
All Markets

Units	Camber						Balance (RH - LH)
			Left Hand		Right Hand		
	Min	Max	Min	Max	Min	Max	
Degrees/Minutes	-1° 12'	-0° 06'	-1° 12'	-0° 06'	-1° 00'	+1° 00'	
Decimal Degrees	-1.20°	-0.10°	-1.20°	-0.10°	-1.00°	+1.00°	

**Wheel Alignment - Rear Camber**

- All the above figures are at "showroom" height. See vehicle ride height section above.
- Tires must be inflated to normal pressure.  
For additional information, refer to Section [204-04 Wheels and Tires](#).

1998 to 2003.5  
VIN - 812317 to F59525  
All Markets

Units	Toe								Thrust Angle
			Left Hand		Right Hand		Total Toe		
	Min	Max	Min	Max	Min	Max	Min	Max	
Degrees/Minutes	+0° 05'	+0° 15'	+0° 05'	+0° 15'	0° 10'	+0° 30'	-0° 05'	+0° 05'	
Decimal Degrees	+0.08°	+0.25°	+0.08°	+0.25°	0.17°	+0.50°	-0.08°	+0.08°	

**Wheel Alignment - Rear Toe**

- All the above figures are at "showroom" height. See vehicle ride height section above.
- Tires must be inflated to normal pressure.  
For additional information, refer to Section [204-04 Wheels and Tires](#).