

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

For 1234

1992 WHEEL ALIGNMENT
Subaru Specifications & Procedures

Justy, Legacy, Loyale, SVX

* PLEASE READ THIS FIRST *

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

WHEEL ALIGNMENT PROCEDURES

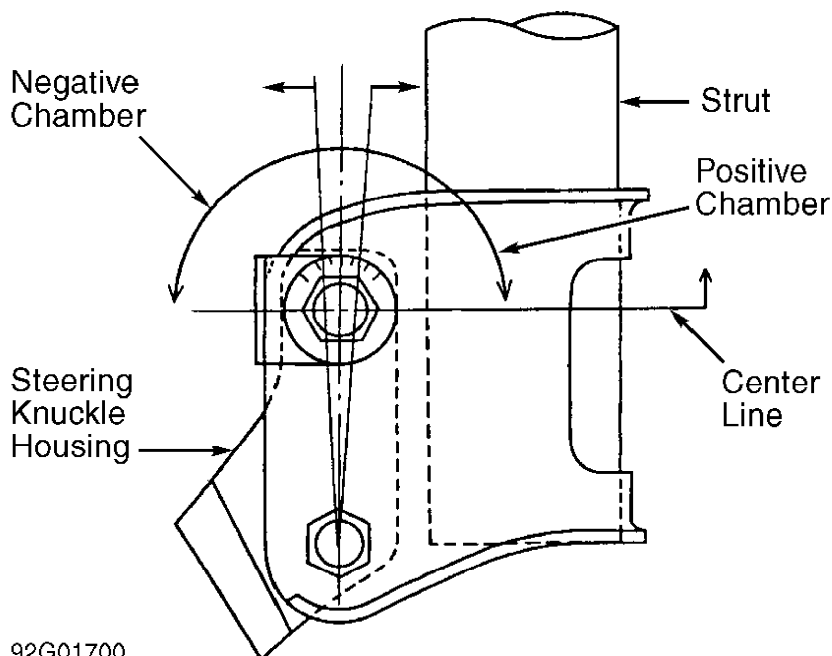
CAMBER ADJUSTMENT

Justy (Front & Rear)

Camber and caster are not adjustable. If measurements are not within specifications, check for frame damage, transverse link damage, or worn out components (struts/springs, ball joint, etc.).

Legacy & SVX (Front)

Loosen both lower strut mounting bolts so strut can rotate. See Fig. 1. Turn strut adjusting bolt to adjust camber. Strut adjusting bolt has eccentric cam head to force strut to positive or negative camber adjustment. Tighten bolts to specification. See TORQUE SPECIFICATIONS table at end of article.



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Fig. 1: Adjusting Front Camber (Legacy & SVX)
Courtesy of Subaru of America, Inc.

Legacy & SVX (Rear)

Camber is not adjustable. If camber measurement is not within

specification, check for frame damage, lateral link damage or worn out components (struts/springs, joints, etc.).

Loyale (Front)

Camber and caster are not adjustable. If measurements are not within specifications, check for frame damage, transverse link damage, or worn out components (struts/springs, ball joint, etc.).

Loyale (Rear)

1) Remove wheel. Remove lower shock bolt at inner arm (if necessary). Loosen outer arm mounting bolts. See Fig. 2. If camber angle measurement is too positive, use a lever to increase angle "0" between inner arm and outer arm. See Fig. 2.

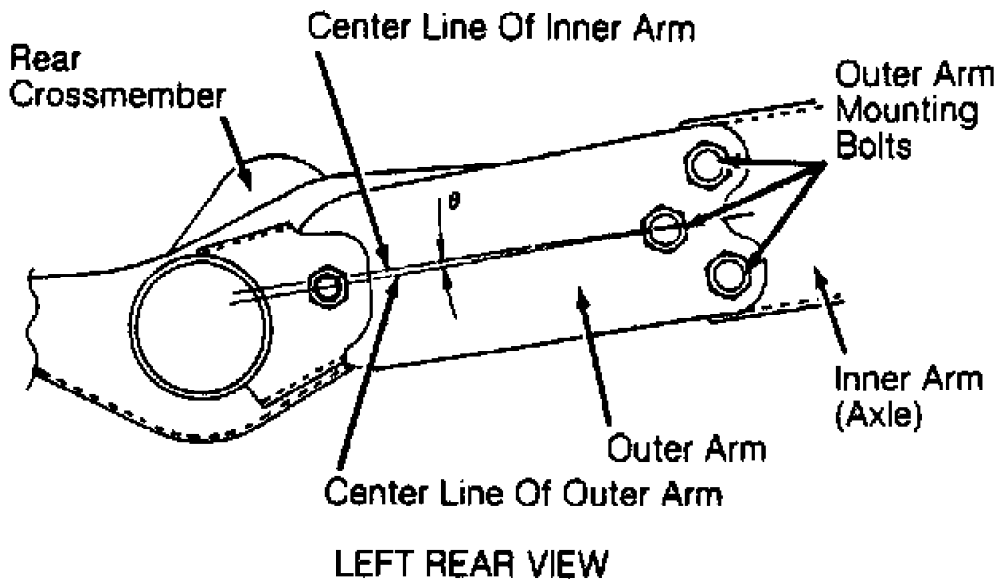


Fig. 2: Adjusting Rear Camber & Toe-In (Loyale)
Courtesy of Subaru of America, Inc.

2) If camber angle measurement is too negative, use lever to decrease angle " θ " between inner arm and outer arm. Changing camber angle will change toe-in measurement. Changing toe-in will change camber angle. Tighten outer arm mounting bolts to 94-108 ft. lbs. (127-147 N.m).

CASTER ADJUSTMENT

All Models (Front)

Caster is not adjustable. If measurement is not within specification, check for frame damage, transverse link damage, or worn out components (struts, ball joint, etc.).

TOE-IN ADJUSTMENT

All Models (Front)

1) Ensure tires are inflated to specification. Ensure riding height and normal riding load are set. Lock steering wheel to straight-ahead center position.

2) Loosen both tie rod lock nuts. Turn both tie rods equal amounts until within toe-in specifications. See WHEEL ALIGNMENT SPECIFICATIONS table at end of article. Tighten lock nuts to specification. See TORQUE SPECIFICATIONS table at end of article.

Justy (Rear)

1) Ensure tires are inflated to specification. Ensure riding height and normal riding load are set. Release parking brake. Loosen trailing link mounting bolt one turn. See Fig. 3.

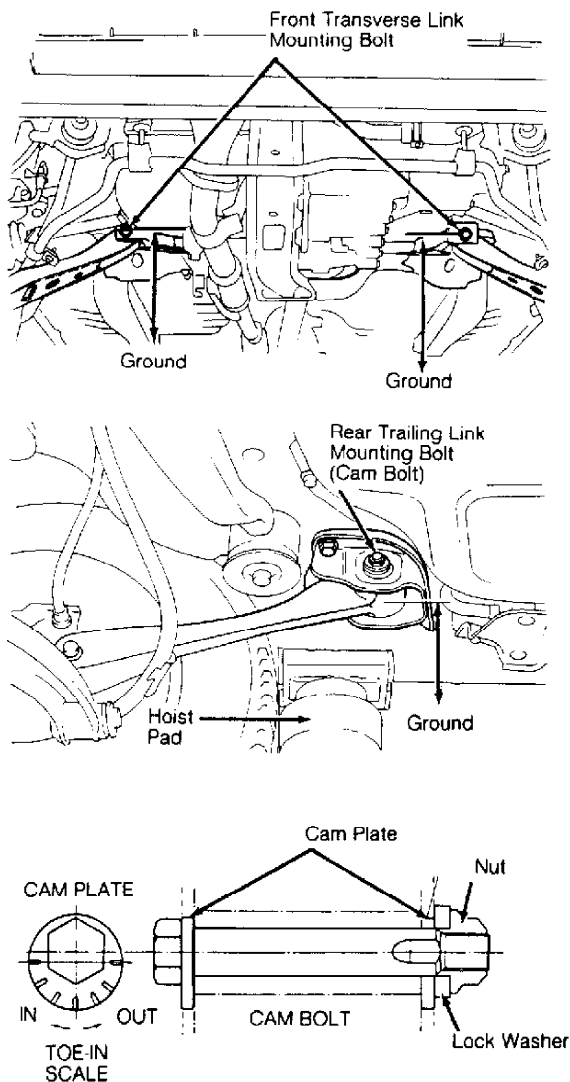


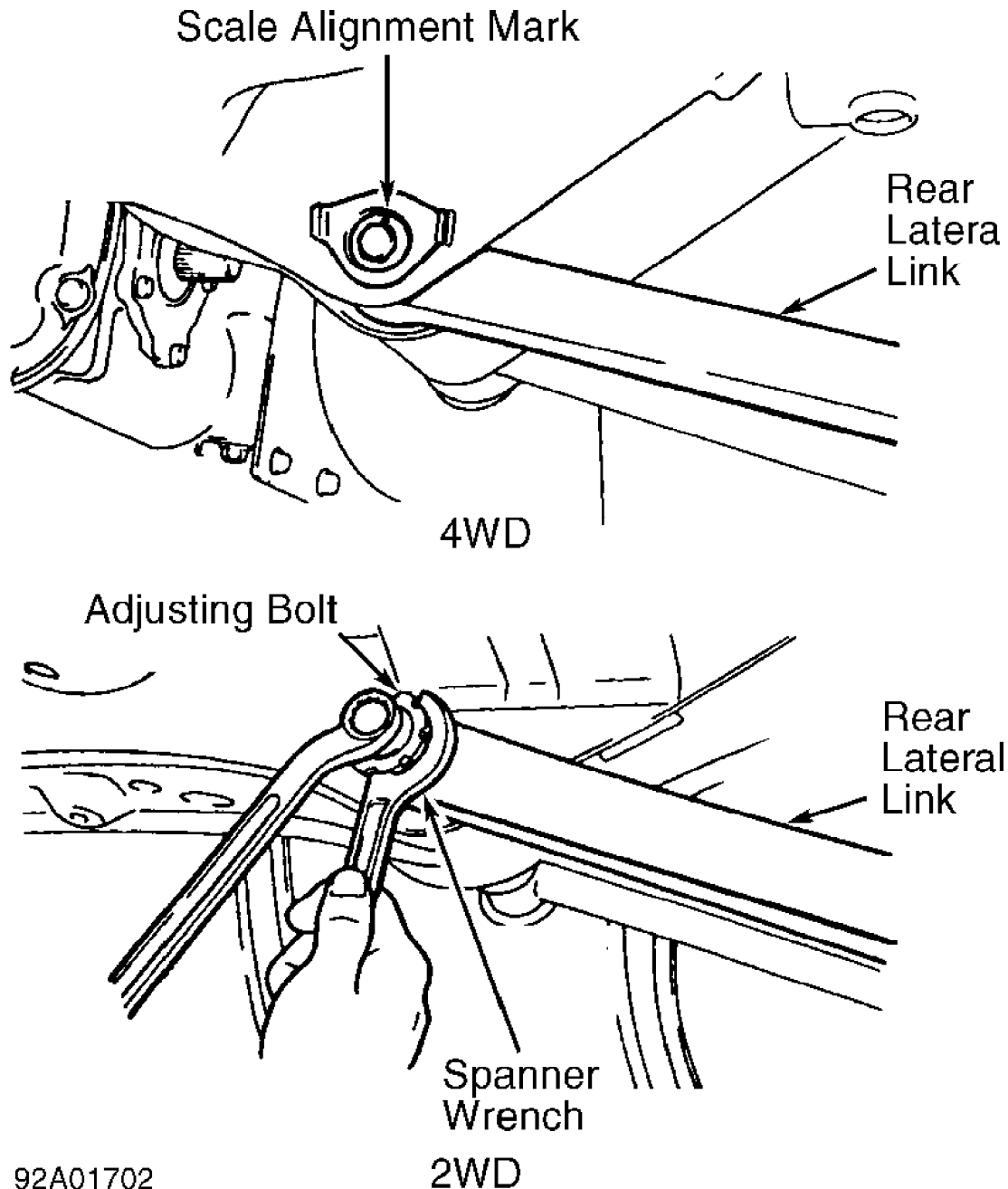
Fig. 3: Measuring Riding Height & Adjusting Rear Toe-In (Justy)
Courtesy of Subaru of America, Inc

2) Turn cam bolt 2 scale notches in opposite direction of required adjustment in **WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES** Article Text (p

bolt back in adjusting direction until correct toe-in specification is achieved. Tighten cam bolt to 44-51 ft. lbs. (59-69 N.m).

Legacy 2WD (Rear)

Loosen adjusting bolt on rear lateral link. See Fig. 4. Using spanner wheel wrench, turn adjusting wheel counter-clockwise to change toe-in angle. Turn adjusting wheel clockwise to change toe-out angle. Tighten adjusting bolt to 87-116 ft. lbs. (118-157 N.m).



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Fig. 4: Adjusting Rear Toe-In (Legacy & SVX)
Courtesy of Subaru of America, Inc.

Legacy 4WD & SVX (Rear)

Loosen adjusting bolt for rear lateral link. See Fig. 4. Turn

eccentric cam bolt head counterclockwise to change toe-out angle. Turn eccentric cam bolt head clockwise to change toe-in angle. Tighten adjusting bolt to 61-83 ft. lbs. (83-113 N.m).

Loyale (Rear)

1) Remove wheel. Loosen outer arm mounting bolts. See Fig. 2. If toe-in is excessive, push/pull rear axle toward rear of vehicle while tightening outer arm mounting bolts.

2) If toe-out is excessive, push/pull rear axle toward front of vehicle while tightening outer arm mounting bolts. Changing toe-in will change camber angle. Changing camber angle will change toe-in measurement. Tighten outer arm mounting bolts to 94-108 ft. lbs. (127-147 N.m).

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

Application	Ft. Lbs. (N.m)
Front Strut Camber Adjusting Bolts	
Legacy & SVX	97-127 (132-172)
Rear Trailing Link Cam Bolt (Justy)	44-51 (59-69)
Tie Rod Lock Nuts	
Justy	36-47 (49-64)
Loyale, Legacy & SVX	58-65 (79-88)
Wheel Lug Nuts (All)	58-72 (79-98)

WHEEL ALIGNMENT SPECIFICATIONS

WHEEL ALIGNMENT SPECIFICATIONS TABLE

Application	Preferred	Range
Justy		
Camber (1)		
Front	0.67	-0.33 To 1.67
Rear	0	-1 To 1
Caster (1)	2.5	1.5 To 3.5
Toe-In (2)		
Front	0.08 (2)	0.04 To 0.12 (1 To 3)
Rear	0 (0)	-0.12 To 0.12 (-3 To 3)
Toe-In (1)		
Front	0.2	0.1 To 0.3
Rear	0	-0.3 To 0.3
Legacy Sedan 2WD		
Camber (1)		
Front	-0.25	-0.75 To 0.25
Rear	-1	-2 To 0
Caster (1)	3.08	2.08 To 4.08
Toe-In (2)		
Front	0 (0)	-0.12 To 0.12 (-3 To 3)
Rear	0 (0)	-0.12 To 0.12 (-3 To 3)
Toe-In (1)		
Front	0	-0.3 To 0.3
Rear	0	-0.3 To 0.3
Legacy Sedan 4WD		

WHEEL ALIGNMENT !

Camber (1)			
Front	0		-0.5 To 0.5
Rear	-1		-2 To 0
Caster (1)			
	3		2 To 4
Toe-In (2)			
Front	0 (0)		-0.12 To 0.12 (-3 To 3)
Rear	0 (0)		-0.12 To 0.12 (-3 To 3)
Toe-In (1)			
Front	0		-0.3 To 0.3
Rear	0		-0.3 To 0.3
Legacy Wagon 2WD			
Camber (1)			
Front	-0.25		-0.75 To 0.25
Rear	-0.83		-1.83 To 0.17
Caster (1)			
	2.83		1.83 To 3.83
Toe-In (2)			
Front	0 (0)		-0.12 To 0.12 (-3 To 3)
Rear	0 (0)		-0.12 To 0.12 (-3 To 3)
Toe-In (1)			
Front	0		-0.3 To 0.3
Rear	0		-0.3 To 0.3
Legacy Wagon 4WD			
Camber (1)			
Front	0		-0.5 To 0.5
Rear	-0.83		-1.83 To 0.17
Caster (1)			
	2.75		1.75 To 3.75
Toe-In (2)			
Front	0 (0)		-0.12 To 0.12 (-3 To 3)
Rear	0 (0)		-0.12 To 0.12 (-3 To 3)
Toe-In (1)			
Front	0		-0.3 To 0.3
Rear	0		-0.3 To 0.3
Loyale Sedan 2WD			
Camber (1)			
Front	0.75		0 To 1.5
Rear	0		-0.5 To 0.5
Caster (1)			
	2.5		1.75 To 3.25
Toe-In (2)			
Front	0.08 (2)		0.04 To 0.12 (1 To 3)
Rear	0 (0)		-0.08 To 0.08 (-2 To 2)
Toe-In (1)			
Front	0.2		0.1 To 0.3
Rear	0		-0.2 To 0.2
Loyale Wagon 2WD			
Camber (1)			
Front	1		0.25 To 1.75
Rear	0		-0.5 To 0.5
Caster (1)			
	2.08		1.33 To 2.83
Toe-In (2)			
Front	0.08 (2)		0.04 To 0.12 (1 To 3)
Rear	0 (0)		-0.08 To 0.08 (-2 To 2)
Toe-In (1)			
Front	0.2		0.1 To 0.3

Rear	.....	0	.....	-0.2 To 0.2
Loyale 4WD				
Camber (1)				
Front	.....	1.67	.....	0.92 To 2.42
Rear	.....	0	.....	-0.5 To 0.5
Caster (1)	.....		.....
Toe-In (2)				
Front	.....	-0.2 (-5)	.....	-0.24 To -0.16 (-6 To -4)
Rear	.....	0 (0)	.....	-0.08 To 0.08 (-2 To 2)
Toe-In (1)				
Front	.....	-0.5	.....	-0.6 To -0.4
Rear	.....	0	.....	-0.2 To 0.2
SVX				
Camber (1)				
Front	.....	-0.42	.....	-1.17 To 0.33
Rear	.....	-0.67	.....	-1.42 To 0.08
Caster (1)	.....	4.83	.....	4.08 To 5.58
Toe-In (2)				
Front	.....	0 (0)	.....	-0.12 To 0.12 (-3 To 3)
Rear	.....	0 (0)	.....	-0.12 To 0.12 (-3 To 3)
Toe-In (1)				
Front	.....	0	.....	-0.24 To 0.24
Rear	.....	0	.....	-0.24 To 0.24

(1) - Measurement is in degrees.
(2) - Measurement is in inches (mm).
