

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

1994 Volvo 960

1994 WHEEL ALIGNMENT
Volvo Wheel Alignment Specifications & Procedures

960

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 GENERAL INFORMATION section.

WHEEL ALIGNMENT PROCEDURES

CAMBER ADJUSTMENT

1) Camber angle can be adjusted by altering the fixing bolt hole position for the upper spring strut mount. Remove front nut in spring strut upper retaining plate. Using a soft-faced hammer, remove front press bolt.

2) Loosen rear bolt on retaining plate. Set Wrench (5038) on rear bolt and turn suspension assembly so hole in retaining plate passes hole in suspension tower at least .12" (3 mm). See Fig. 1. Mark position when hole can no longer be seen and turn wrench an additional .12" (3 mm).

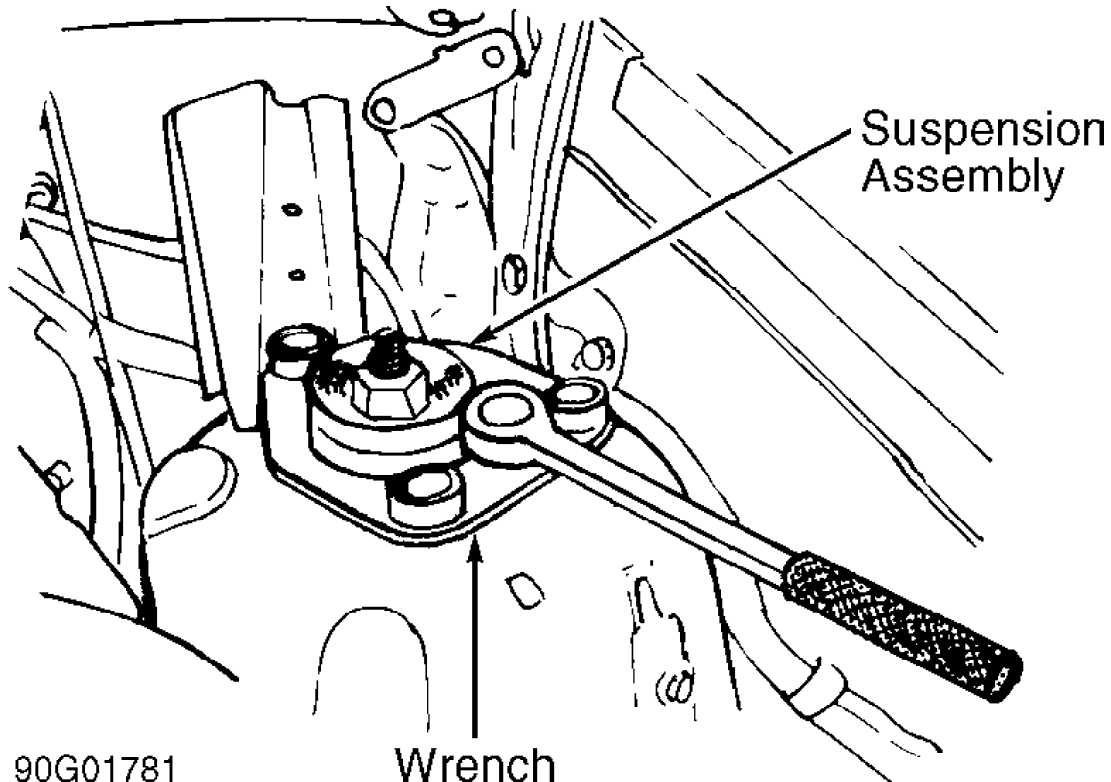


Fig. 1: Turning Front Suspension Assembly (960)
Courtesy of Volvo Cars of North America.

3) Mark position of new hole with a punch. Tighten rear nut to 35 ft. lbs. (48 N.m) so strut will not move out of position.

4) Drill a new hole in retaining plate, through hole in top of suspension tower. Use care not to damage hole in suspension tower. Install and tighten front press bolt and nut. Tighten bolt in retaining plate. Remove front press bolt and replace with new bolt, nut and lock washer. Tighten bolt to 35 ft. lbs. (48 N.m).

CASTER ADJUSTMENT

Caster angle can be adjusted by replacing the control arm strut. A shorter strut reduces caster angle by .8 degrees. A longer strut increases caster angle by .8 degree.

TOE-IN ADJUSTMENT

To adjust toe-in, lengthen or shorten tie-rod ends as necessary.

TROUBLE SHOOTING

Refer to TROUBLE SHOOTING - BASIC PROCEDURES article in the GENERAL TROUBLE SHOOTING section.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

Application	Ft. Lbs. (N.m)
Upper Strut Bolt	35 (48)
Wheel Lug Nuts	63 (85)

WHEEL ALIGNMENT SPECIFICATIONS

WHEEL ALIGNMENT SPECIFICATIONS TABLE

Application	Preferred	Range
Camber (1)		
Front3	-0.2 To 0.8
Caster (1)	5	4.5 To 5.5
Toe-In (2)		
Front18 (4.5) ..	.13 To .23 (3 To 6)
Toe-In (1)		
Front3727 To .47

(1) - Measurement is in degrees.

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