

SUSPENSION - REAR

Article Text

1993 Honda Prelude

For Cadi Centre Nsk CA 95051

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ARTICLE BEGINNING

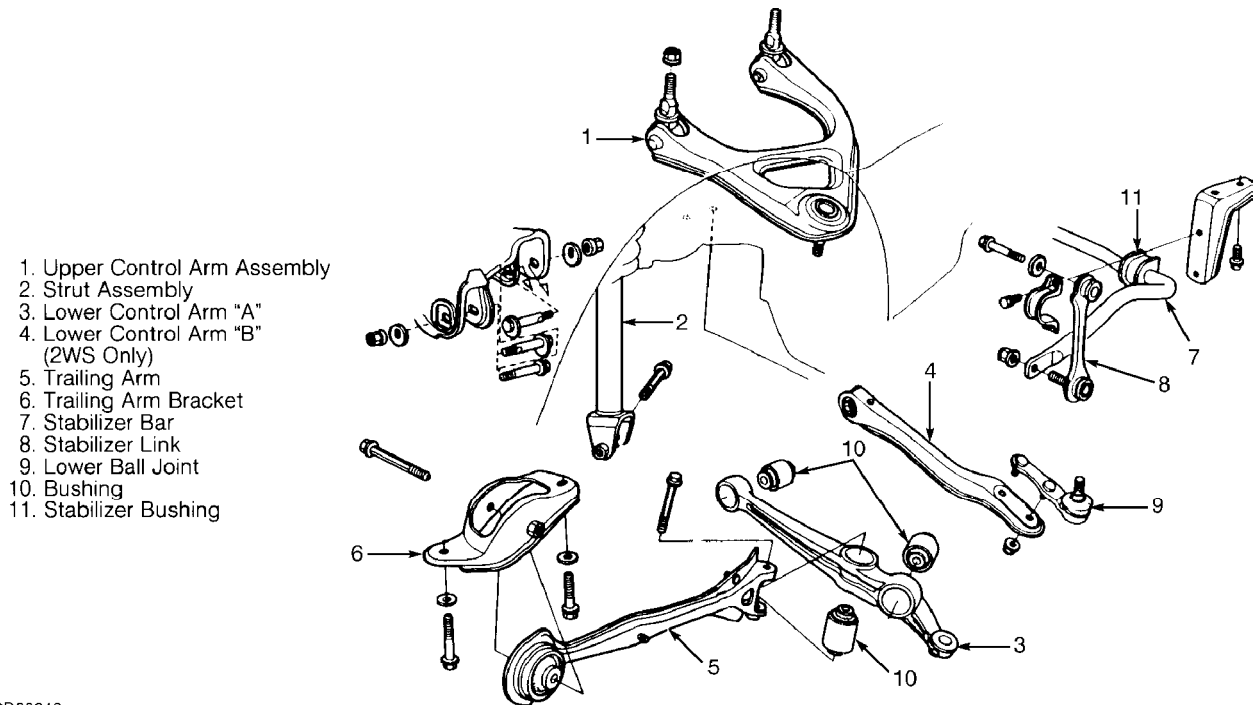
1993 SUSPENSION

Honda - Rear Suspension

Prelude

DESCRIPTION

Prelude uses an independent strut type suspension. Suspension consists of a vertically-mounted strut, trailing arm, upper and lower control arms, knuckle, stabilizer bar and hub assembly. See Fig. 1.



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Fig. 1: Exploded View Of Rear Suspension
Courtesy of American Honda Motor Co., Inc.

ADJUSTMENTS & INSPECTION

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

NOTE: See WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES article in WHEEL ALIGNMENT.

WHEEL BEARING

Wheel bearings are not adjustable.

REMOVAL & INSTALLATION

CAUTION: Use NEW self-locking bolts if nut can be threaded easily past nylon locking area. Use NEW self-locking nuts any time one is removed. When tightening retaining bolts used on parts containing rubber mounting bushings, ensure vehicle weight is supported on strut assembly.

HUB & KNUCKLE ASSEMBLY

Removal

1) Raise and support vehicle. Remove lug nuts. Remove wheel assembly. Remove brake hose clamp. Remove caliper assembly, and wire it aside.

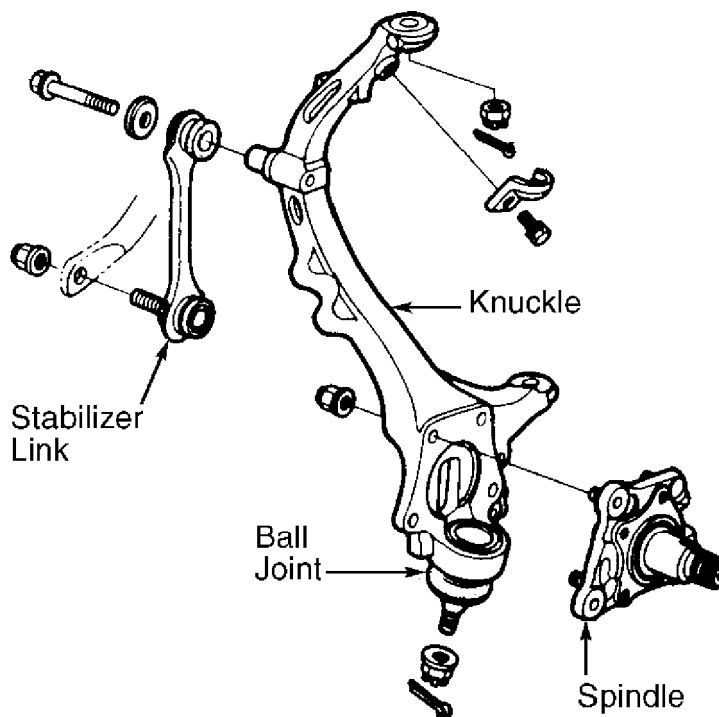
2) Remove two 6-mm disc retaining screws. Install two 8 x 12-mm bolts in brake disc, and tighten bolts to force brake disc from hub. Alternate tightening of bolts to prevent brake disc from binding on hub. Remove spindle nut and washer. Remove hub. Remove splash guard. Remove brake hose clamp. Remove speed sensor from knuckle, but DO NOT disconnect wire.

3) Remove spindle assembly from knuckle. Disconnect stabilizer bar from knuckle. Remove cotter pin, and loosen ball joint nut from lower control arm "B" (2-wheel steering) or tie rod end (4-wheel steering). See Fig. 2. Using ball joint separator, separate joint from knuckle. Remove cotter pin and nut from lower ball joint stud.

4) Using ball joint separator, separate lower ball joint from control arm. Remove upper ball joint cotter pin and nut. Using ball joint remover, separate ball joint from knuckle. Remove knuckle from vehicle.

Installation

To install, reverse removal procedure. Tighten bolts to specification. See TORQUE SPECIFICATIONS TABLE. Use NEW spindle nut, and stake it after tightening it to specification. Replace self-locking bolt if nut can be easily threaded past nylon lock area.



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Fig. 2: Exploded View Of Steering Knuckle
 Courtesy of American Honda Motor Co., Inc.

LOWER BALL JOINT

NOTE: Lower ball joint removal information for (4WS) is not available from manufacturer.

Removal & Installation (2WS)

Raise and support vehicle. Remove wheel assembly. Remove cotter pin and nut from lower ball joint. Using ball joint separator, separate ball joint from knuckle. Remove bolts securing ball joint to lower control arm "B". Remove lower ball joint. To install, reverse removal procedure.

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Removal

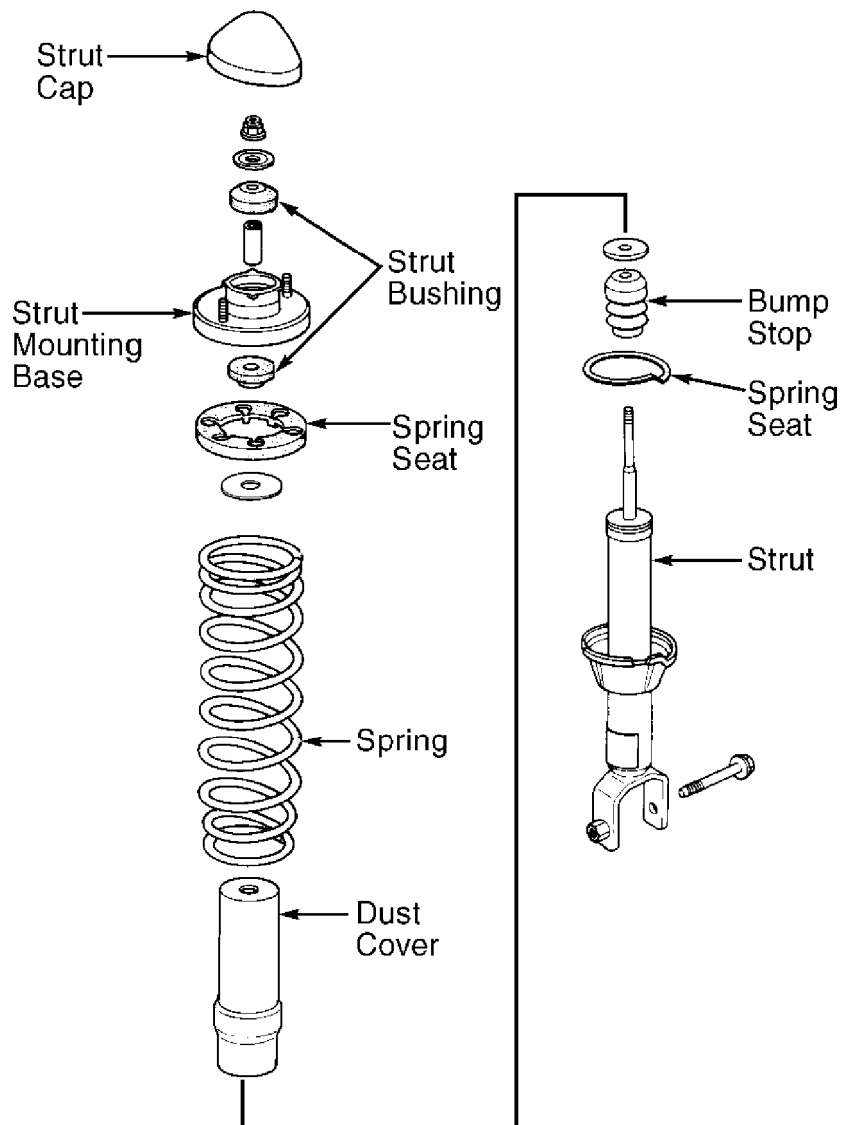
1) Lift carpet in luggage compartment, and remove 2 upper strut mounting base nuts. Raise and support vehicle. Remove wheel assembly. Remove brake hose clamp from strut. If necessary, remove speed sensor wire bracket. DO NOT remove speed sensor.

2) Remove upper ball joint shield. Remove cotter pin and upper ball joint nut. Using ball joint separator, separate ball joint from knuckle. Remove lower strut mounting bolt at lower control arm. Lower suspension, and remove strut assembly.

WARNING: Strut contains pressurized nitrogen gas. To properly dispose of strut, drill a 5/64" (2.0 mm) hole at base of strut. Always wear eye protection when drilling.

Disassembly

Note position of strut upper mounting studs for reassembly reference. Using spring compressor, compress strut assembly spring. DO NOT compress more than required to remove strut shaft nut. Remove strut shaft nut. Slowly release spring compressor. Disassemble strut assembly, noting location of components for reassembly reference. See Fig. 3.



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Fig. 3: Exploded View Of Rear Strut Assembly (Typical)

Courtesy of American Honda Motor Co., Inc.

Inspection & Reassembly

Check for weak spring tension. Inspect components for deterioration and damage. Strut assembly must be replaced if rod does not move smoothly through full travel or signs of oil leakage exist. Replace worn or damaged components. To assemble, reverse disassembly procedure. Install NEW strut shaft nut. Tighten nut to specification. See appropriate TORQUE SPECIFICATIONS TABLE.

Installation

1) Lower rear suspension, and place strut assembly in its original position. Loosely install lower strut mounting bolt. Loosely install upper strut mounting nuts.

2) Raise rear suspension so strut assembly supports vehicle weight. Loosely install strut mounting. Reverse removal procedure for remaining components. Raise rear suspension until weight of car is on strut. Tighten bolts to specification. Install strut cap (if equipped).

NOTE: Ensure vehicle weight is supported on strut assembly before tightening lower strut mounting bolt to specification.

UPPER BALL JOINT

NOTE: Upper ball joint removal information is not available from manufacturer.

WHEEL BEARING

Removal & Installation

1) Raise and support vehicle. Remove wheel assembly and brake drum or rotor. See REAR BRAKE ROTOR or BRAKE DRUM under REMOVAL & INSTALLATION in BRAKE SYSTEM article in BRAKES section. Remove hub cap, nut, washer and hub bearing assembly. Replace hub and bearing assembly as a unit.

2) To install, reverse removal procedure using new hub retaining nut. Tighten nut to specification. See appropriate TORQUE SPECIFICATIONS table. Stake hub retaining nut against spindle.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

AA
Application Ft. Lbs. (N.m)

Brake Line Clamp Bolts 16 (22)

Lower Ball Joint Nut 37-44 (50-60)

Lower Control Arm Pivot Bolt

2WS	61 (83)
4WS	48 (65)
Spindle Nut	136 (185)
Stabilizer Bar Mounting Bolts	16 (22)
Strut Assembly Lower Mounting Bolt	48 (65)
Strut Shaft Nut	22 (30)
Tie Rod Ball Joint Nut	37-44 (50-60)
Upper Control Arm Bracket	57 (77)
Wheel Lug Nuts	81 (110)
AA	

END OF ARTICLE