

SUSPENSION - REAR

1990 Nissan 240SX

1990 SUSPENSION
Rear

240SX

DESCRIPTION

The 240SX rear suspension is an independent-type using lower control arm and front and rear upper links. The rear wheel is supported by a coil spring and shock absorber. The upper end of the shock and spring are attached directly to the upper body. The lower end of the shock absorber is attached to the axle housing.

The differential gear carrier is installed directly to the suspension member subframe. Lower control arm and upper links are installed on the subframe with rubber bushings and pivot bolts. A stabilizer bar is used to enhance suspension control. See Fig. 1.

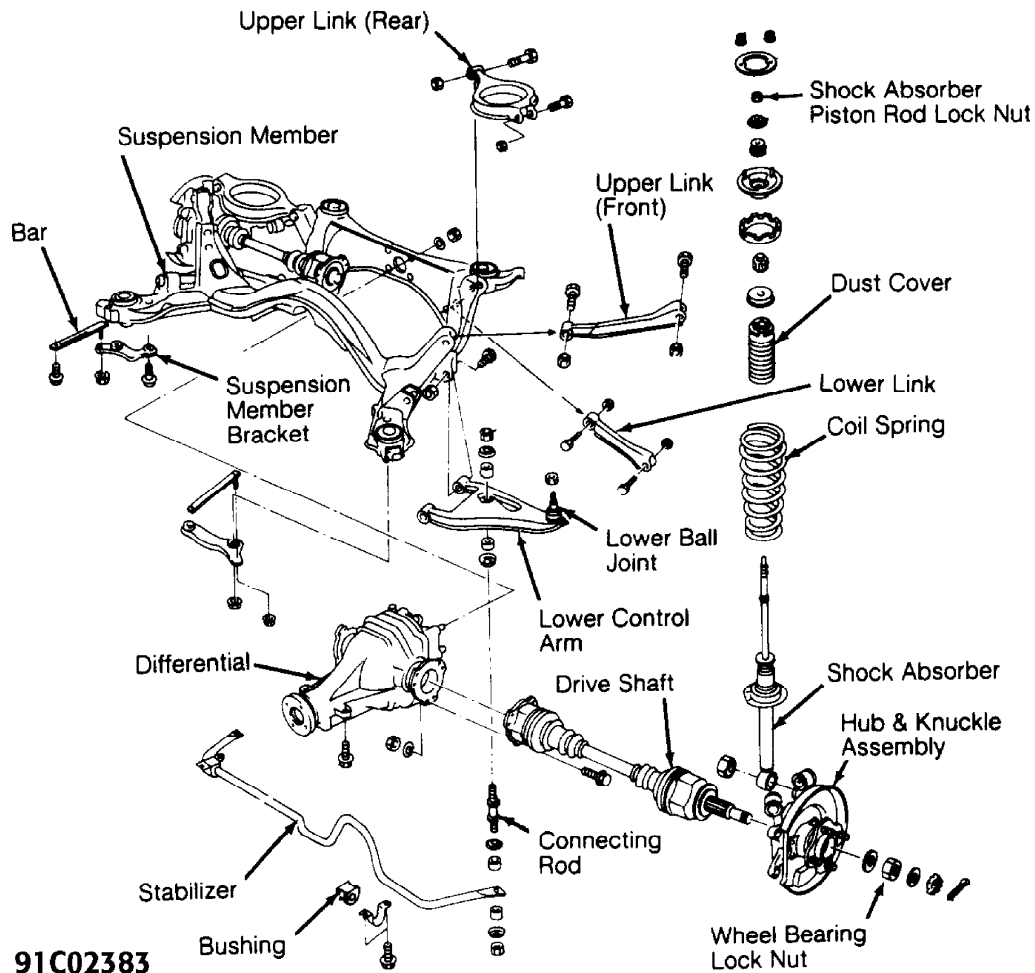


Fig. 1: Exploded View of 240SX Rear Suspension
Courtesy of Nissan Motor Co., U.S.A.

BALL JOINT CHECKING

1) Separate transverse link from ball joint. Attach torque gauge to top of ball joint stud nut. Measure ball joint stud turning torque. See BALL JOINT TURNING TORQUE SPECIFICATIONS table.

BALL JOINT TURNING TORQUE SPECIFICATIONS

| Application | INCH Lbs. (N.m) |
|-------------|---------------------|
| 240SX | 4.3-30.4 (.49-3.43) |

2) Using a spring gauge, measure ball joint side-to-side torque. Side-to-side torque should be 2.9-20.3 lbs. (1.3-9.2 kg).

3) Measure lower ball joint vertical play (up and down) movement of ball joint stud. No vertical play should exist.

WHEEL BEARING ADJUST

Wheel bearing is pressed into wheel hub and is not adjustable. Wheel bearing does not usually require periodic maintenance. Wheel bearing must be replaced as an assembly (including flange, and inner and outer seals.)

COIL SPRING & SHOCK ABSORBER ASSEMBLY R & I

Removal

1) Raise and support vehicle rear. Remove shock absorber upper and lower mounting nuts. DO NOT remove piston rod lock nut while shock absorber is on vehicle. Remove coil spring shock assembly from vehicle.

2) Secure lower end of shock on a soft-jawed vise. Loosen but do not remove shock piston rod lock nut. Compress spring with spring compressor and remove piston rod lock nut. Remove spring from shock absorber.

Inspection

Check for smooth operation through a full stroke, both compression and extension. Check for oil leakage. Check piston for cracks, deformation or other damage.

Installation

Ensure flat coil spring surface is facing upward. Install spring onto shock assembly. When installing upper spring seat, ensure that the bigger inner diameter side of lower bushing is facing out of vehicle and the smaller inner diameter side of lower bushing is facing towards vehicle.

DRIVE AXLES R & I

See DRIVE AXLES section.

REAR HUB ASSEMBLY R & I

Removal

Apply parking brake or depress brake pedal. Remove wheel bearing lock nut. Remove brake caliper and rotor. Remove drive shaft. See DRIVE AXLE SHAFTS in this article. Remove wheel bearing hub and wheel bearing from drive axle housing.

Disassembly

Press wheel bearing assembly out of hub. Using bearing puller, remove bearing race remaining in hub.

Reassembly

Press wheel bearing assembly into hub. Use care not to damage grease seal.

Installation

To install, reverse removal procedure.

STABILIZER BAR R & I

Removal & Installation

Raise and support vehicle rear. Remove wheel assembly. Remove connecting rod and clamp. Remove stabilizer bar. To install, reverse removal procedure. Ensure connecting rod is facing the right direction.

SUSPENSION ASSEMBLY R & I

Removal

1) Raise and support vehicle rear. Remove exhaust pipe. Disconnect drive shaft from differential. Remove brake caliper assembly. DO NOT disconnect brake line.

2) Remove shock absorber upper end nuts. DO NOT remove shock absorber piston rod lock nut. Remove suspension member mounting bolts and nuts. Pull out rear axle and rear suspension assembly.

Installation

To install, reverse removal procedure.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

| Application | Ft. Lbs. (N.m) |
|---|-------------------|
| Differential Housing Mounting Bolt ... | 72-87 (98-118) |
| Drive Shaft-to-Companion Flange Nut ... | 25-33 (34-44) |
| Lower Ball Joint Nut | 52-64 (71-86) |
| Shock Absorber Piston Rod Nut | 13-17 (18-24) |
| Shock Absorber-to-Axle Housing Nut ... | 65-80 (88-108) |
| Wheel Bearing Hub-to-Axle Housing Bolt | 58-72 (79-98) |
| Wheel Bearing Lock Nut | 174-231 (235-314) |
| | INCH Lbs. (N.m) |
| Connecting Rod Nut | 78-104 (9-12) |