

FRONT - INDEPENDENT FRONT SUSPENSION

DESCRIPTION

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The front suspension is designed to allow each wheel to adapt to different road surfaces independently. The wheels are mounted to hub/bearings units bolted to the steering knuckle. The double-row hub bearings are sealed and lubricated for life. The steering knuckles turn (pivot) on ball joints.

The front suspension is comprised of (Fig. 1) (Fig. 2):

- Shock absorbers
- Torsion bar - 4X4 (LD only)
- Coil Spring - 4X2
- Control arms
- Steering knuckles
- Stabilizer bar
- Stabilizer link
- Tie Rod Ends
- Hub/Bearing
- Rack & Pinion
- Ball Joints

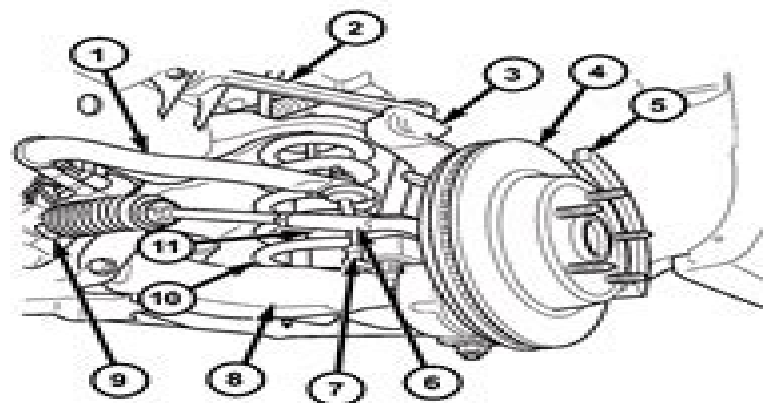


Fig. 1 FRONT SUSPENSION - 4X2

- 1 - STABILIZER BAR
- 2 - UPPER CONTROL ARM
- 3 - STEERING KNUCKLE
- 4 - ROTOR
- 5 - CALIPER ADAPTER
- 6 - OUTER TIE ROD END
- 7 - STABILIZER LINK
- 8 - LOWER CONTROL ARM
- 9 - RACK & PINION
- 10 - COIL SPRING
- 11 - SHOCK ABSORBER

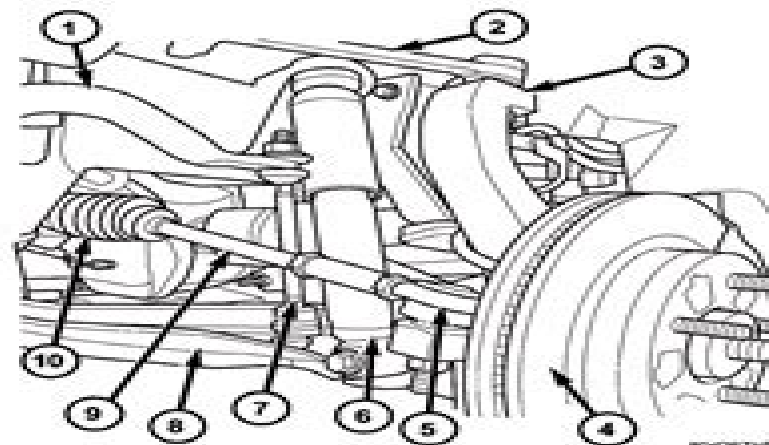


Fig. 2 FRONT SUSPENSION - 4X4 (LD ONLY)

- 1 - STABILIZER BAR
- 2 - UPPER CONTROL ARM
- 3 - STEERING KNUCKLE
- 4 - ROTOR
- 5 - OUTER TIE ROD END
- 6 - SHOCK ABSORBER
- 7 - STABILIZER LINK
- 8 - LOWER CONTROL ARM
- 9 - INNER TIE ROD
- 10 - RACK & PINION

NOTE: Components attached with a nut must be torqued to specification.

NOTE: Suspension components with rubber/urethane bushings should be tightened with the vehicle at normal ride height. It is important to have the springs supporting the weight of the vehicle when the fasteners are torqued. If springs are not at their normal ride position, vehicle ride comfort could be affected and premature bushing wear may occur.

DESCRIPTION

The upper control arm bolts on frame brackets. The frame brackets have slotted holes which allow the arms to be adjusted for caster and camber.

The lower control arms bolt to the lower frame brackets and pivots through bushings.

The control arms have lube for life ball studs. The control arm travel (jounce) is limited through the use of rubber/urethane bumpers. Rebound travel is limited by the shock absorber.

2003 Dodge Ram Truck Service And Repair Manual

Michael Brown



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