



THE PROBLEM SOLVER™

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ADVICE FOR THE PROFESSIONAL

Overview

Owners of Dodge Ram 2500/3500 pickups may experience front end shimmy and vibration on rough road surfaces. This may occur due to several issues, including incorrect tire pressure, a worn steering damper and/or worn tie rod ends.

Models affected:

Year	Make/Model
03-07	Dodge Ram 2500/3500

Symptoms

Customers may experience vibration and/or shimmy in the front end of the vehicle after striking a bump or pothole.

Diagnosis

This condition is due to several factors, including

- **Incorrect Tire Pressure** (check)
- **Worn steering damper** - inspect for resistance in motion, replace if no resistance is present
- **Worn outer tie rod ends** -

The following is the procedure recommended by Dodge for this particular tie rod:

1. Raise the front of the vehicle. Place safety floor stands under both lower control arms as far outboard as possible. Lower the vehicle, allowing stands to support vehicle.

Con't next column

Diagnosis (con't)

2. Remove the front tires.
3. Mount a dial indicator solidly to the vehicle steering knuckle and then zero the dial indicator.
4. Position indicator plunger on the topside of the outer tie rod end.

NOTE: The dial indicator plunger must be perpendicular to machined surface of the outer tie rod end.

5. Position a pry bar and pry down on the outer tie rod end.
6. If the travel exceeds 0.5 mm (0.020 in.), replace the outer tie rod end

Repair Procedure

Tire Pressure

Set to Specifications. Refer to the Tire Pressure Placard located near the driver's side door



Steering Damper

STEERING DAMPER 1

Recommended replacement:
MOOG Steering Damper SSD112

REMOVAL

1. Remove the steering damper mounting nuts and bolts.
2. Slide the damper from the isolation bushing and remove.

Con't next column

Steering Damper (con't)

INSTALLATION

1. Install the steering damper on the axle and isolation bushing. Tighten nut to 95 N.m (75 ft. lbs.).
2. Install the steering damper on the tie rod. Tighten nut to 81 N.m (60 ft. lbs.).

Tie Rod Ends

LH OUTER TIE ROD 2

Recommended Replacement:
MOOG ES3625

RH CONNECTING OUTER TIE ROD 3

Recommended Replacement:
MOOG DS1463

REMOVAL

1. Remove tie rod nuts.
2. Remove tie rod from drag link and left knuckle with puller.

INSTALLATION

1. Install tie rod to the left steering knuckle and drag link. Install the nuts and tighten to 108 N.m (80 ft. lbs.).
2. Remove supports and lower the vehicle. Center steering wheel and adjust toe to specifications
3. After adjustment tighten tie rod adjustment sleeve clamp bolts to 61 N.m (45 ft. lbs.).

