2004 > G 2.0 DOHC > Driveshaft and axle

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To begin a successful diagnosis, fill out the questions.

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DRIVESHAFT CONDITION:	Noise Vibration	
Balance Weights Missing/Other Visual Defe	ets? Yes / No	
Maximum Allowable Runout :		
Actual Runout :	Front Middle	Rear
Two-Piece Driveshaft Runout:	Front Rear	
Middle Support Bearing:	Loose Damaged Worn	Others
Suspect Driveshaft Balanced ?	Yes / No	
Pinion Angle: Engine Height:	Specification Actual	
Pinion Angle :	Specification Actual	
Driveshaft Angle - Truck :	Specification Actual	

Once the concern is narrowed down to a symptom/condition, proceed to condition and Symptom Categories below.

Condition and Symptom Categories.

Operation Condition Vehicle is moving

Depends more one how the vehicle is operated

- 1. Speed related
 - Related to vehicle speed
 - A. Noise occurs at specific vehicle speed. A high pitch noise (whine).

Go to troubleshooting.

- B.Loudness proportional to vehicle speed. Low frequency noise at high speeds, noise and ludness increase with speed. Go to Troubleshooting.
- 2. Acceleration
 - Light/moderate acceleration
 - A. Driveline shudder. Go to Troubleshooting.
- 3. Cruising speeds
 - Driveline vibration. Go to Troubleshooting.

- Driveline vibration. Go to Troubleshooting.		
Symptom	Cause	Remedy (See page)
Hub howling or whine - Hub or transfer case	Axle lubricant low	Check the lubricant level. Fill the axle to specification

Damaged or worn wheel bearings or axle bearings	Check for abnormal wheel bearing play or roughness. Refer to wheel Bearing Check in this section. See page DS-26. Adjust or Install new wheel bearings as necessary. See page DS-23 for front bearings or DS-29 for rear bearings.
Excessive backlash in the axle or transmission	Carry out a total backlash check
Loosen suspension components	Inspect the suspension for damage or wear. Repair or Install new components as necessary. See page SS-27, SS-43.
Broken powertrain mounts	Inspect the powertrain mounts. Install new mounts as necessary.
Idle speed too high	Check for the correct idle speed
Worn driveshaft joints with excessive play	Inspect the joints for a worn condition. Install a new driveshaft as necessary. See page DS-8.
	Excessive backlash in the axle or transmission Loosen suspension components Broken powertrain mounts Idle speed too high

Driveline clunk-occurs during acceleration or from cruise to coast/deceleration	Damaged or worn tripod joints Cap seperation from the hub bearing	Inspect the joint and boot. Repair or Install a new joint as necessary. See page DS-8. Remove the rear
Quirer-noise from the rear hub, occurs when driving on rugged roads	Cap seperation from the hub bearing	hub check the hub bearing cap. Install a new cap if necessary.
Clicking, popping or grinding-occurs while vehicle is turning	Inadequate or contaminated lubrication in the joints	Check the joint boots and joints for wear or damage. Repair or Install new components as necessary. See page DS-14, 21.
	Another component contacting the driveshaft	Check the driveshafts and the are around the driveshafts. Repair as necessary.
	Brake components	Inspect the front brakes for wear or damage. Repair as necessary. See page BR-25.
	Suspension components	Inspect the lower arm ball joints for wear or damage. Repair as necessary. See page SS-33 for ball joints.
		for ball joints.

	Damaged or worn wheel bearings	Check for abnormal wheel bearing play or roughness. Refer to wheel bearing check in this section. See page DS-26. Adjust or Install new wheel bearings as necessary. See page DS-26 for front wheel bearings.
Clicking or snapping-occurs when accelerating around a corner	Damaged or worn birfield joints	Inspect the Birfield joints and boots. Repair or Install a new joint as necessary. See page DS-14 or 21.
Buzz-buzzing noise is the same at cruise or coast/deceleration	Damaged or worn tires	Check for abnormal tire wear or damage. Install a new tire as necessary. See page SS-63.
Driveline shudder-occurs during acceleration from a slow speed or stop	Rear axle assembly mispositioned	Check the axle mounts and the rear suspension for damage or wear. Repair as necessary.
	Loose rear axle bolts	Inspect the bolts. Tighten the bolt nuts to specification.

	Damaged or worn front suspension components	Check for a loose stabilizer bar, damaged or loose strut/strut bushings or loose or worn ball joints. Inspect the steering linkage for wear or damage. Repair or Install new components as
	Binding the driveshaft joint	necessary. See page SS-1. Inspect the driveshaft shaft joint for worn, or
		damaged condition. Install a new driveshaft assembly as necessary. Repair as necessary. See page DS-8.
	Loose rear axle bolts	Inspect the bolts. Tighten the bolts to specification.
Driveline vibration-occurs at cruising speeds	Binding or damaged driveshaft joint	Inspect the driveshaft joint for wear or damage. Install a new driveshaft assembly as necessary. See page DS-8.

Incorrect lateral and radial tire/wheel runout	Inspect the tire
incorrect lateral and radial tire/wheel runout	'
	and wheels.
	Measure tire
	runouts.
	Repair or Install
	new components
	as necessary.
	See page SS-59.
Incorrectly seated joint in the front wheel hub	Check the
	Birfield joint for
	correct seating
	into the hub.
	Repair as
	necessary.
	See page DS-
	14, DS-21 for
	front joints.