NO.3 ABNORMAL NOISE AND/OR VIBRATION FROM COUPLING COMPONENT

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3	Abnormal noise and/or vibration from coupling component

[TROUBLESHOOTING HINTS]

- Abnormal noise and/or vibration from coupling component during driving
- Propeller shaft is malfunctioning or attached improperly.
- Engine mount or differential mount malfunction
- Resonance of rotating parts on vehicle (engine, propeller shaft, rear differential, tire, etc.)
- Resonance with engine vibration (mainly with exhaust system parts)
- Rear differential malfunction
- Coupling component malfunction

Diagnostic procedure

STEP	INSPECTION		ACTION
1	**VERIFY DSC, PCM, TCM (ATX), INSTRUMENT CLUSTER, EPS, AND 4WD SYSTEM DTCS** • Verify DSC, PCM, TCM (ATX), BCM (MTX), instrument cluster, EPS, and 4WD system DTCs using the M-MDS. • Are there any DTCs present?	Yes	Go to applicable DTC inspection.
		No	Go to next step.
2	**VERIFY INSTALLATION CONDITION OF VEHICLE PARTS** • Verify installation condition for following: — Propeller shaft (including bending and joint operation) — Center bearing — Engine mount — Differential mount — Hub bearing — Exhaust system parts — ABS wheel-speed sensor • Are they properly installed?	Yes	Go to next step.
		No	Repair or replace malfunctioning part.
3	**DETERMINE IF MALFUNCTION IS CAUSED BY REAR DIFFERENTIAL** • Install tires of another brand. **Note** • When tires of another brand are installed, the same malfunction can occur due to conditions different from customer explanation. Be careful not to confuse it with customer complaint. • Perform simulation driving at the same engine speed, gear position, and vehicle speed that customer vehicle had malfunction. • Does the same malfunction occur?	Yes	Reinstall customer's vehicle tire. Go to next step.
		No	4WD system is okay. Reinstall customer's vehicle tire.
4	**INSPECT REAR DIFFERENTIAL** • Inspect rear differential for following: — Backlash — Teeth contact (See REAR DIFFERENTIAL ASSEMBLY.) • Are they okay?	Yes	Replace coupling component.
		No	Inspect malfunctioning part and adjust it if necessary.