Vibration Diagnostics

Important: Use factory service manuals and procedures and refer to all applicable safety precautions when servicing vehicles.
This document is intended to assist with drivetrain vibration diagnosis. It does not guarantee an immediate solution nor does it guarantee warranty responsibility or reimbursement. Refer to Roadranger.com for Product Warranty Statements, Warranty Manual, and Warranty Guidelines.

1. Gather Info
   - When did vibration start?
   - Where is vibration felt?
   - What is the speed?
   - Under load or high torque conditions?
   - During acceleration/deceleration?
   - Torque arm
   - Bearing straps
   - Driveshaft slip spline (wear/bottoming/ineffective engagement)

2. Road Test
   - Have vehicle driver recreate complaint condition, if possible
   - Leave trailer attached
   - Run up to suspected RPM and put transmission in neutral

3. Simulate Conditions
   - Speed RPM
   - Gear position
   - Coast
   - Under power
   - Loaded/Unloaded

4. Record Findings
   - Speed RPM
   - Gear position
   - Coast
   - Under power
   - Loaded/Unloaded

5. Stationary Inspection
   - Tires
   - Rims
   - Dented driveshaft tubing
   - Engine supports
   - Transmission supports
   - Driveshaft center bearing

6. Vibration While Stationary
   - Yes?
   - Previous work on clutch or engine?
   - Yes?
   - If clutch work recently done, problem could be related to the clutch. Verify proper clutch was installed.
   - If engine work recently done, problem could be related to the engine. Contact your engine distributor.

   No?
   - In the road test in Step 2, the vehicle was run up to the suspected RPM and the transmission shift lever was placed in neutral.
   - Did the vibration occur during this test?
   - Yes?
   - Problem is related to the clutch. Remove clutch and check for: Broken springs, disc, or other damage.
   - No?
   - Problem is related to the drive. Contact your engine distributor.

   No?
   - Problem is related to the drive. Contact your engine distributor.

   No??
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