

# Four-Wheel Drive Diagnosis

**Meets NATEF Task:** (A3-F-1, A3-A-2) Diagnose noise and vibration concerns; determine necessary action. (P-3, P-1)

Name \_\_\_\_\_ Date \_\_\_\_\_ Time on Task \_\_\_\_\_

Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

\_\_\_\_\_ 1. Check the service manual for correct fluid and for the location for inspecting the fluid.

**Recommended fluid** = \_\_\_\_\_

**Inspection location** = \_\_\_\_\_

\_\_\_\_\_ 2. Hoist the vehicle safely.

\_\_\_\_\_ 3. Inspect the fluid level and replace as required or recommended.

\_\_\_\_\_ level okay

\_\_\_\_\_ level low - added fluid

\_\_\_\_\_ drained and replaced the fluid

\_\_\_\_\_ 4. Check the engine and transmission/transfer case mounts.

\_\_\_\_\_ all mounts are dry and okay

\_\_\_\_\_ one or more of the mounts is oil soaked

\_\_\_\_\_ one or more of the mounts is collapsed or defective

\_\_\_\_\_ other (describe) \_\_\_\_\_



**NOTE:** A defective engine or transmission/transfer case mount can cause abnormal vibrations and noise.

\_\_\_\_\_ 5. Check the operation of the clutch by checking free play and compare to the factory specifications.

Free play specifications (if available) = \_\_\_\_\_

Actual measured clutch pedal free play = \_\_\_\_\_

**OK** \_\_\_\_\_ **NOT OK** \_\_\_\_\_

\_\_\_\_\_ 6. Adjust the clutch linkage if possible. **OK** \_\_\_\_\_ **NOT OK** \_\_\_\_\_

\_\_\_\_\_ 7. What is the necessary action? \_\_\_\_\_

\_\_\_\_\_