

Four-Wheel Drive Diagnosis

Meets ASE Task: (A3-F-4) P-2, (A3-F-5) P-3 Diagnose noise and vibration concerns; determine needed action.

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 needed action? _____

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