

**TESTING (Continued)**

**Start-Up Procedure**

**After Power Steering Pump or Gear Overhaul**

After engine start up, follow these steps to eliminate excessive steering system noise due to air trapped in the system during service:

1. Disconnect ignition coil wire.
2. Fill reservoir and raise front wheels off floor.
3. Crank engine with starter and add fluid until level remains constant.

NOTE: Front wheels must be off the floor during lock-to-lock rotation of steering wheel.

4. While cranking the engine, rotate steering wheel from lock-to-lock.
5. Check fluid level and add fluid if necessary.
6. Connect ignition coil wire and lower front wheels.
7. Start the engine, and allow it to run for several minutes.
8. Rotate steering wheel from lock-to-lock.
9. Turn engine off and check fluid level. Add fluid if necessary.
10. Purge system of air as outlined, if air is still present.

**DIAGNOSIS**

Drive vehicle to determine exactly what condition exists. Refer to the Steering System Diagnosis charts and service as required.

NOTE: The following diagnosis chart applies to a non-variable assist steering system.

**STEERING SYSTEM**

CONDITION	POSSIBLE SOURCE	ACTION
<ul style="list-style-type: none"> <li>● Front End Wander—Condition where the vehicle wanders back and forth on the roadway when it is driven straight ahead while the steering wheel is held in a firm position.</li> </ul>	<ul style="list-style-type: none"> <li>● Check tire size and pressure (front and rear).</li> <li>● Check if vehicle is unevenly or excessively loaded.</li> <li>● Loose tie rod ends.</li> <li>● Gear assembly loose on sub-frame.</li> <li>● Loose suspension struts or ball joint(s).</li> <li>● Column intermediate shaft connecting bolts loose.</li> <li>● Column intermediate shaft universal joints loose/worn.</li> <li>● Improper toe adjustment.</li> <li>● Loose tie rod inner ball joints.</li> </ul>	<ul style="list-style-type: none"> <li>● Be sure tire sizes are correct, and adjust tire pressures.</li> <li>● Adjust load.</li> <li>● Replace tie rod end assembly. Refer to Section 11-02.</li> <li>● Tighten mounting bolts. Refer to Section 11-02.</li> <li>● Tighten strut mounting bolts or replace ball joint(s). Refer to Section 04-01.</li> <li>● Tighten at gear and column. Refer to Section 11-04.</li> <li>● Replace intermediate shaft assembly.</li> <li>● Adjust as required. Refer to Section 04-00.</li> <li>● Check ball housing torque. Refer to Section 11-02.</li> </ul>