

DIAGNOSIS (Continued)

STEERING SYSTEM (Continued)

CONDITION	POSSIBLE SOURCE	ACTION
<ul style="list-style-type: none"> ● Pulls to One Side — Condition where the vehicle tends to pull to one side when driven on a level surface. 	<ul style="list-style-type: none"> ● Improper tire pressure. ● Improper tire size or different type. ● Vehicle is unevenly or excessively loaded. ● Improper toe adjustment. ● Damaged front suspension components. ● Damaged rear suspension components. ● Steering gear valve effort out of balance (Power Steering only). 	<ul style="list-style-type: none"> ● Adjust tire pressure. ● Replace as required. ● Adjust load. ● Adjust toe as required. Refer to Section 04-00. ● Refer to Section 04-01 for replacement. ● Refer to Section 04-00 for replacement. ● Place transmission in NEUTRAL while driving and turn engine off (coasting). If vehicle does not pull with the engine off, replace the steering gear valve assembly. Refer to Section 11-02. ● If vehicle does drift with engine off: <ul style="list-style-type: none"> — Cross-switch front tire / wheel assemblies. — If vehicle pulls to opposite side, cross-switch tire / wheel assemblies that were on the rear to same side on the front. — If vehicle pull direction is not changed, check front suspension components and toe adjustment.
	<ul style="list-style-type: none"> ● Check front and rear brakes for proper operation. ● Check for damaged or sagging springs on front and /or rear suspension. ● Check rear suspension for loose / worn shock absorber struts or suspension arm attaching fasteners. ● Bonded rubber outer tie rod ends not installed properly. 	<ul style="list-style-type: none"> ● Service as necessary. Refer to Section 06-00. ● Replace as required. ● Replace shocks and /or tighten all attaching fasteners. ● Remove outer tie rod ends from front knuckle and install by aiming front wheels straight ahead and connect outer tie rod end to front knuckle.
<ul style="list-style-type: none"> ● Feedback (rattle, chuckle, squeak, knocking noises in steering gear) — Condition where roughness is felt in the steering wheel by the driver when the vehicle is driven over rough pavement. 	<ul style="list-style-type: none"> ● Column intermediate shaft universal joints loose / worn. ● Loose tie rod end(s) and /or tie rod inner ball joints. Lack of lube in inner ball joint. ● Gear assembly loose on sub-frame. ● Column intermediate shaft connecting bolts loose. ● Loose suspension bushings / fasteners or ball joints. ● Check column conditions. 	<ul style="list-style-type: none"> ● Replace intermediate shaft assembly. Refer to Section 11-04. ● Replace tie rod end(s) and /or tie rod assemblies. Refer to Section 11-02. ● Tighten mounting bolts. Refer to Section 11-02. ● Tighten bolts at gear and column. Refer to Section 11-04. ● Tighten suspension fasteners, replace worn bushings, or replace ball joints. Refer to Section 04-01. ● Refer to Section 11-04.