

## 1. Propeller Shaft

### NOTE:

Vibration while cruising may be caused by an unbalanced tire, improper tire inflation pressure, improper wheel alignment, etc.

Symptom and possible cause	Remedy
1. Vibration of propeller shaft Vibration is caused by propeller shaft during operation and is transferred to vehicle body. Generally vibration increase in proportion to vehicle speed.	
(1) Worn or damaged universal joint.	Replace.
(2) Unbalanced propeller shaft due to bend or dent.	Replace.
(3) Loose installation of propeller shaft.	Retighten.
(4) Worn or damaged center bearing and damaged center mounting rubber.	Replace.
2. Tapping when starting and noise while cruising, caused by propeller shaft.	
(1) Worn or damaged universal joint.	Replace.
(2) Worn spline of sleeve yoke.	Replace.
(3) Loose installation of propeller shaft.	Retighten.
(4) Loose installation of joint.	Replace.
(5) Worn or damaged center bearing and damaged center mounting rubber.	Replace.

## 2. Rear Differential

Symptom and possible cause	Remedy
1. Oil leakage	
(1) Worn, scratched, or incorrectly seated front or side oil seal. Scored, battered, or excessively worn sliding surface of companion flange.	Repair or replace.
(2) Clogged or damaged air breather.	Clean, repair or replace.
(3) Loose bolts on differential spindle or side retainer, or incorrectly fitted O-ring.	Tighten bolts to specified torque. Replace O-ring.
(4) Loose rear cover attaching bolts or damaged gasket. Tighten bolts to specified torque.	Replace gasket and apply liquid packing.
(5) Loose oil filler or drain plug.	Retighten and apply liquid packing.
(6) Wear, damage or incorrectly fitting for spindle, side retainer and oil seal.	Repair or replace.
2. Seizure Seized or damaged parts should be replaced, and also other parts should be thoroughly checked for any defect and should be repaired or replaced as required.	
(1) Insufficient backlash for hypoid gear.	Readjust or replace.
(2) Excessive preload for side, rear, or front bearing.	Readjust or replace.
(3) Insufficient or improper oil used.	Replace seized part and fill with specified oil to specified level.
3. Damage Damaged parts should be replaced, and also other parts should be thoroughly checked for any defect and should be repaired or replaced as required.	
(1) Improper backlash for hypoid gear.	Replace.
(2) Insufficient or excessive preload for side, rear, or front bearing.	Readjust or replace.
(3) Excessive backlash for differential gear.	Replace gear or thrust washer.
(4) Loose bolts and nuts such as crown gear bolt.	Retighten.
(5) Damage due to overloading.	Replace.