

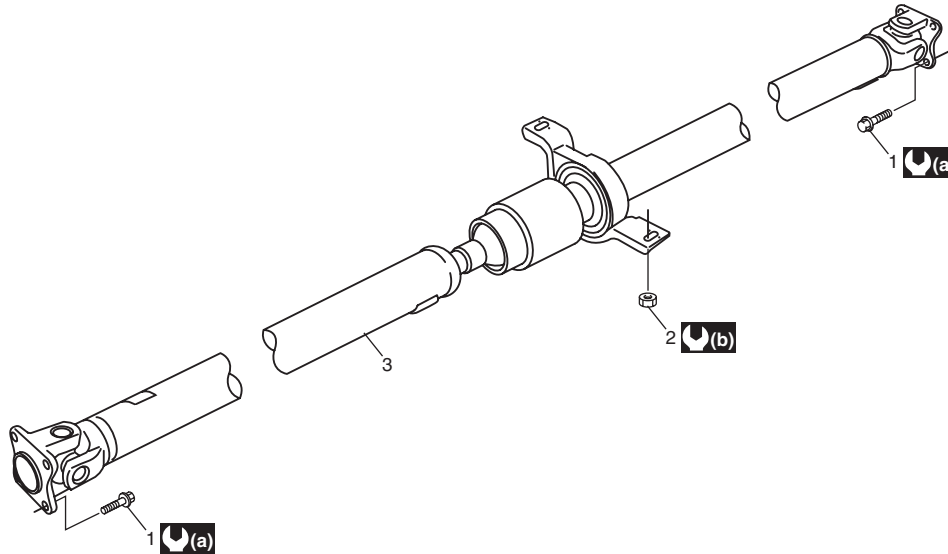
# Propeller Shafts

## General Description

### Propeller Shaft Construction

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Universal joints and ball joint require no maintenance. They are lubricated for life and can not be lubricated on the vehicle. If a universal joint becomes noisy or worn, it must be replaced.  
 The propeller shaft is a balanced unit. Handle it carefully so that balance can be maintained.



1. Propeller shaft flange bolt	(a) : 23 N·m (2.3 kgf·m, 17.0 lb-ft)
2. Center support nut	(b) : 55 N·m (5.5 kgf·m, 40.0 lb-ft)
3. Propeller shaft assembly	

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## Diagnostic Information and Procedures

### Propeller Shaft Symptom Diagnosis

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Condition	Possible cause	Correction / Reference Item
<b>Abnormal noise</b>	Loose propeller shaft flange bolt and/or center support nut	Tighten propeller shaft flange bolt and/or center support nut.
	Spider bearing worn out or stuck	Replace propeller shaft.
	Wear spider	Replace propeller shaft.
<b>Vibration</b>	Deformed propeller shaft	Replace.

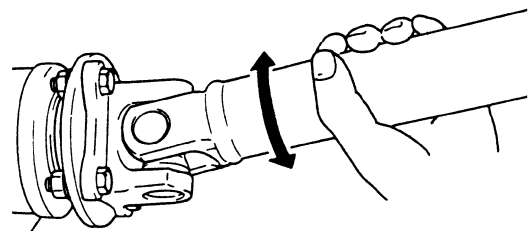
## Repair Instructions

### Propeller Shaft Joint Check

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If universal joints and ball joint are suspected of producing chattering or rattling noise, inspect them for wear. For universal joint, check to see if cross spider rattles in yokes are worn down and replace defective propeller shaft assembly with new one. Noise coming from universal joint and ball joint can be easily distinguished from other noises because rhythm of chattering or rattling is in step with cruising speed.

Noise is pronounced particularly on standing start or in coasting condition (when braking effect of engine is showing in the drive line).



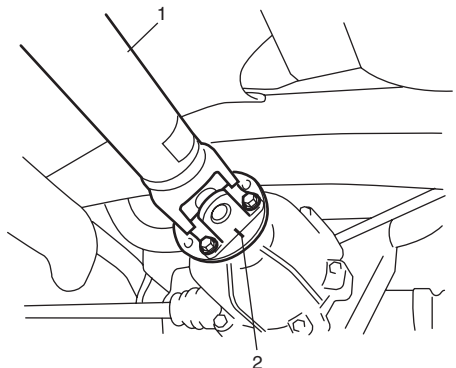
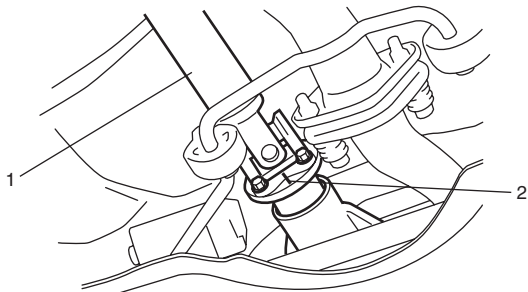
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**Propeller Shaft Assembly Removal and Installation**

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**Removal**

- 1) Hoist vehicle.
- 2) Before removing propeller shaft assembly, give match marks (2) on joint flange and propeller shaft as shown.
- 3) Separate propeller shaft assembly (1) from transfer output flange and rear differential flange.

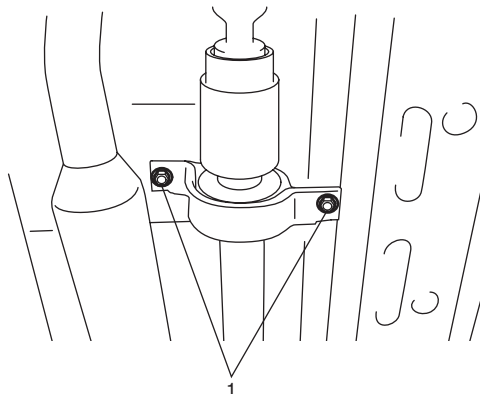


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- 4) Remove propeller shaft by removing center support nuts (1).

**CAUTION**

**Use care not to drop it. Otherwise, vibration may occur during driving.**



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**Installation**

Reverse removal procedure to install propeller shaft, noting the following point.

- When installing propeller shaft, align the match marks (2). Otherwise, vibration may occur during driving.
- Use the following specification to torque each bolt and nut.

**Tightening torque**

**Propeller shaft bolt: 23 N·m (2.3 kgf-m, 17.0 lb-ft)**  
**Center support nut: 55 N·m (5.5 kgf-m, 40.0 lb-ft)**

**Propeller Shaft Inspection**

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- 1) Check propeller shaft joints for wear, play and damage. If any defect is found, replace.
- 2) Check propeller shaft center support for biting of foreign matter, crack, abnormal noise and damage. If any defect is found, replace.

**Specifications**

**Tightening Torque Specifications**

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Fastening part	Tightening torque			Note
	N·m	kgf-m	lb-ft	
Propeller shaft bolt	23	2.3	17.0	☞
Center support nut	55	5.5	40.0	☞

**NOTE**

The specified tightening torque is also described in the following.  
**“Propeller Shaft Construction”**

**Reference:**

For the tightening torque of fastener not specified in this section, refer to “Fasteners Information in Section 0A”.