

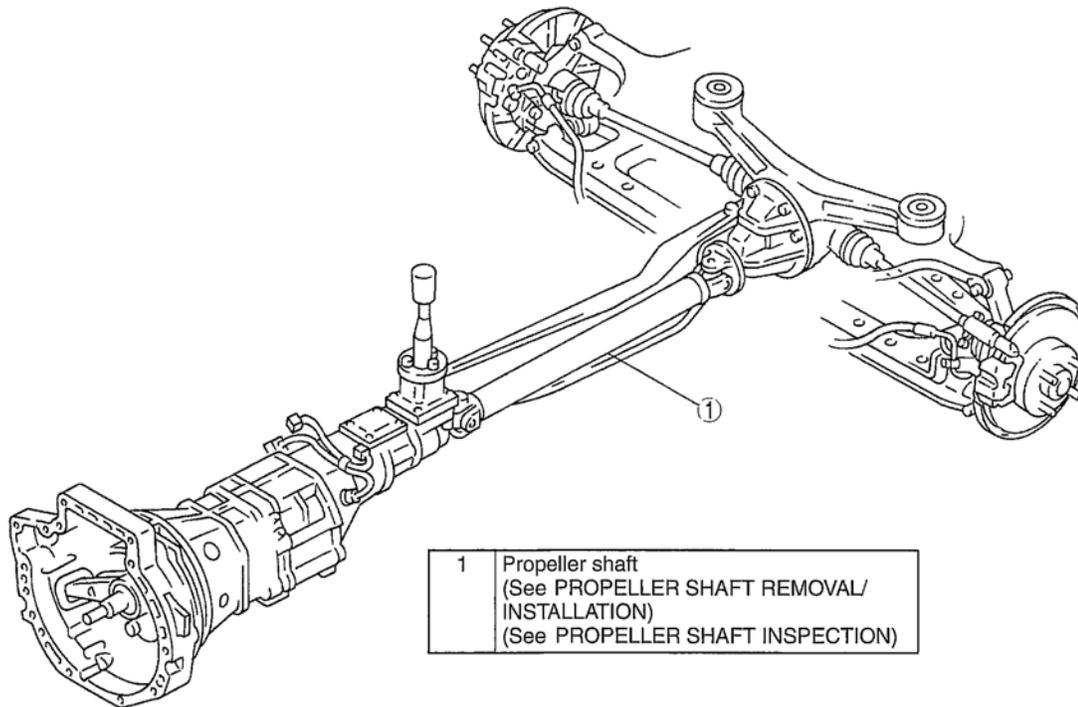
## 2005 Mazda MX-5 Miata

2005 DRIVELINE/AXLE Propeller Shaft - MX-5 Miata

### 2005 DRIVELINE/AXLE

#### Propeller Shaft - MX-5 Miata

## PROPELLER SHAFT LOCATION INDEX



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**Fig. 1: Identifying Propeller Shaft Location**

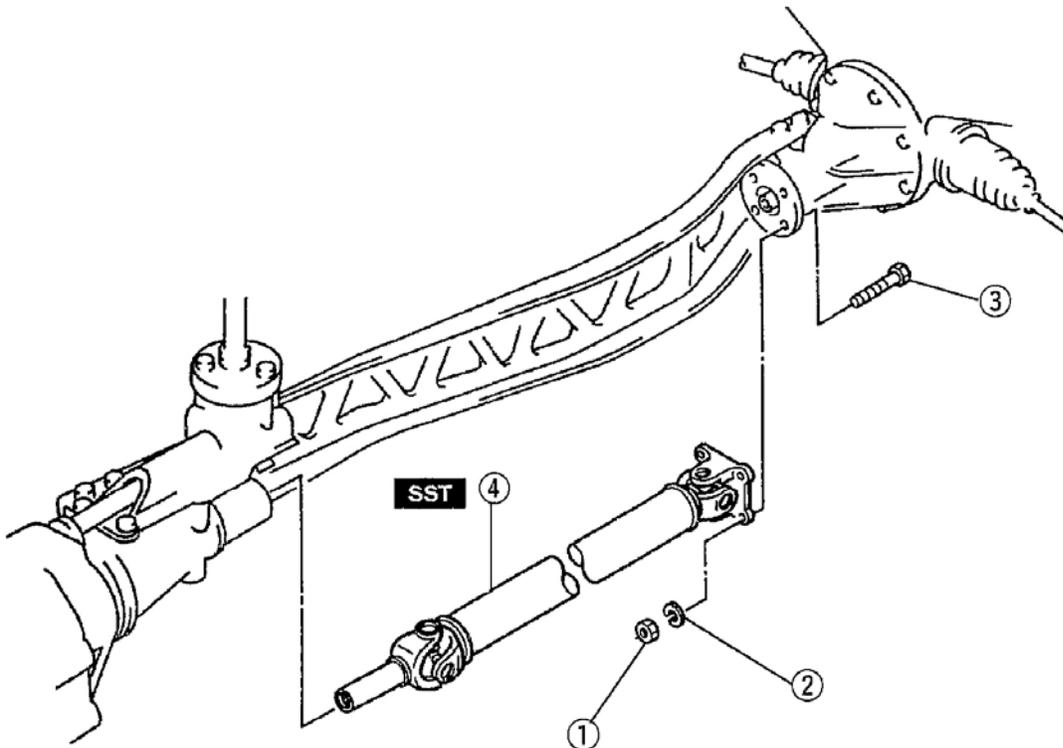
Courtesy of MAZDA MOTORS CORP.

## PROPELLER SHAFT REMOVAL/INSTALLATION

1. Remove the crossmember bracket. (See **CROSSMEMBER BRACKET REMOVAL/INSTALLATION** .)
2. Remove the rear crossbar (only vehicle equipped with 16 inch wheel). (See **DIFFERENTIAL REMOVAL/INSTALLATION** .)
3. Remove the presilencer. (See **EXHAUST SYSTEM REMOVAL/INSTALLATION [BP]** .) (See **EXHAUST SYSTEM REMOVAL/INSTALLATION [BP WITH TC]** .)
4. Remove in the order indicated in the table.
5. Install in the reverse order of removal.

# 2005 Mazda MX-5 Miata

## 2005 DRIVELINE/AXLE Propeller Shaft - MX-5 Miata



49—59 {5.0—6.0, 37—43}

N·m {kgf·m, ft·lbf}

1	Nut
2	Lock washer
3	Bolt

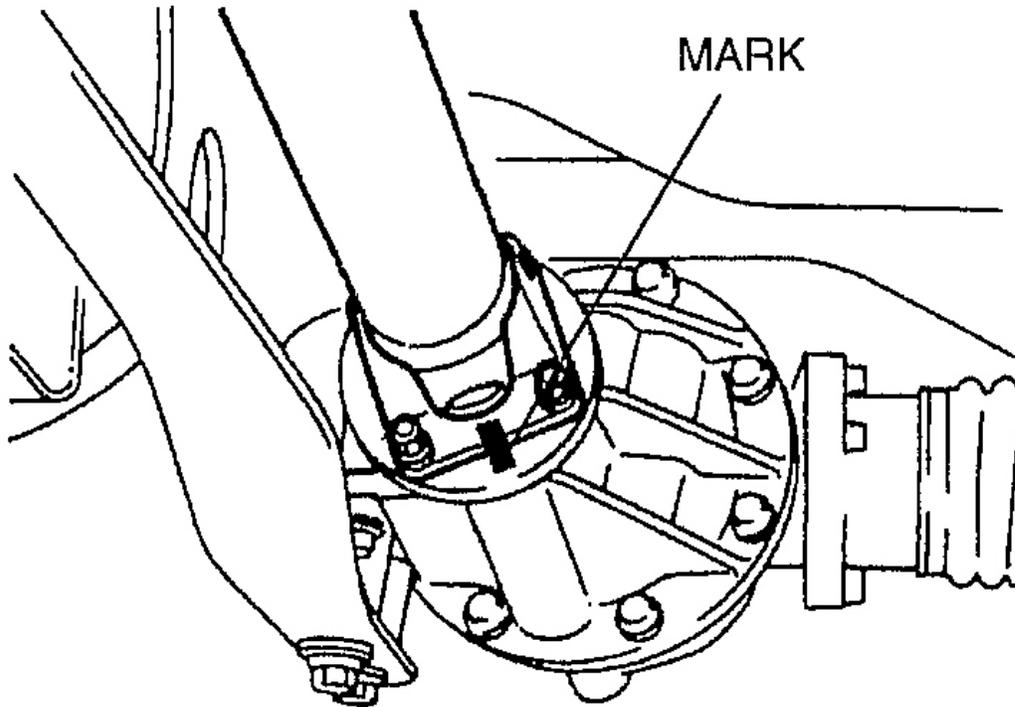
4	Propeller shaft (See Propeller Shaft Removal Note) (See Propeller Shaft Installation Note)
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**Fig. 2: Exploded View Of Propeller Shaft & Torque Specifications**  
Courtesy of MAZDA MOTORS CORP.

### PROPELLER SHAFT REMOVAL NOTE

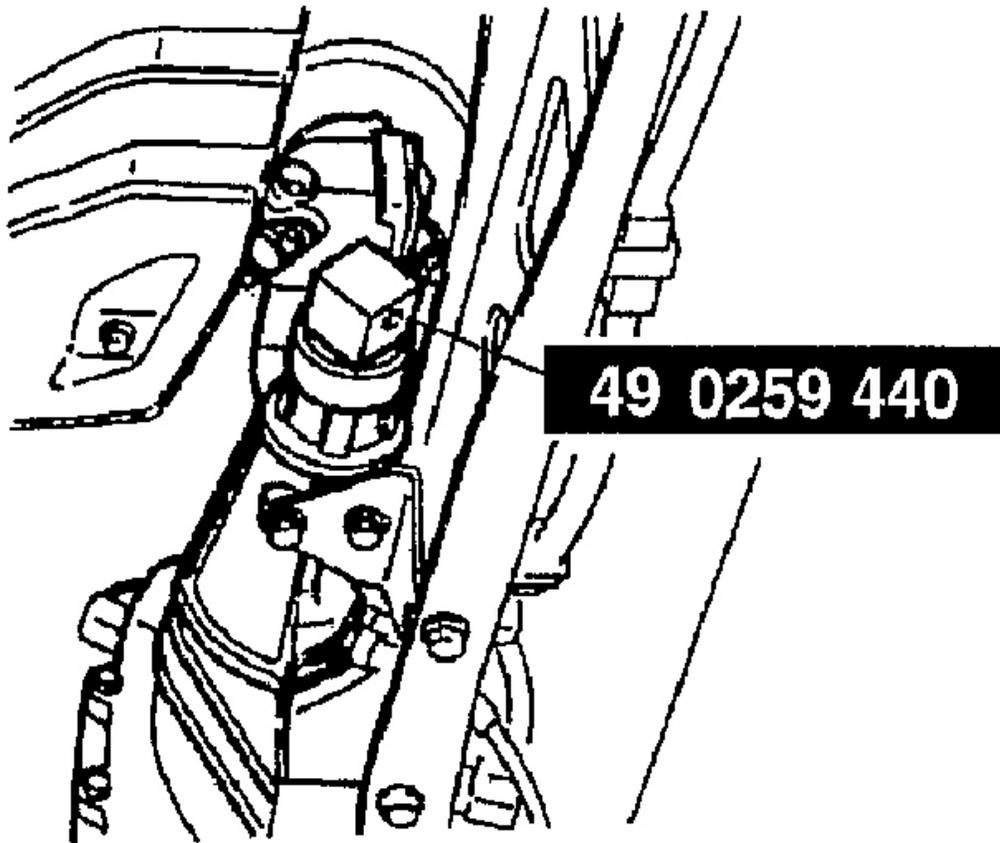
1. Before removing the propeller shaft, mark the flanges for correct installation.



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**Fig. 3: Identifying Mark On Flanges**  
Courtesy of MAZDA MOTORS CORP.

2. Remove the propeller shaft from the extension housing, and immediately install the SST to prevent oil leakage.

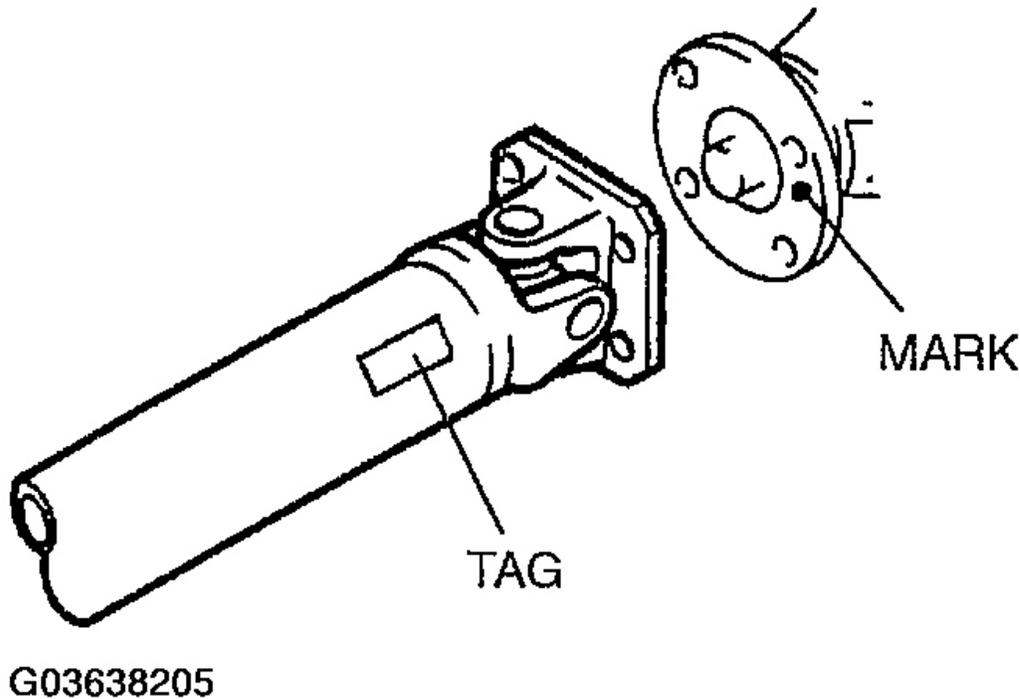


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**Fig. 4: Installing SST**  
Courtesy of MAZDA MOTORS CORP.

**PROPELLER SHAFT INSTALLATION NOTE**

1. Align the marks made during removal, and install the propeller shaft.



**Fig. 5: Aligning Marks Made During Removal, And Installing Propeller Shaft**  
Courtesy of MAZDA MOTORS CORP.

- If installing a new propeller shaft, align the differential companion flange precast marking with the tag on the propeller shaft.

#### **Tightening torque**

**49-59 N.m {5.0-6.0 kgf.m, 37-43 ft.lbf}**

2. Verify that there is no abnormal noise or vibration when driving the vehicle.
  - If noise or vibration comes from the propeller shaft, replace the propeller shaft.

## **PROPELLER SHAFT INSPECTION**

- CAUTION:**
- **Cleaning sealed bearings with cleaning fluids or a steam cleaner can wash the grease out of the bearing.**

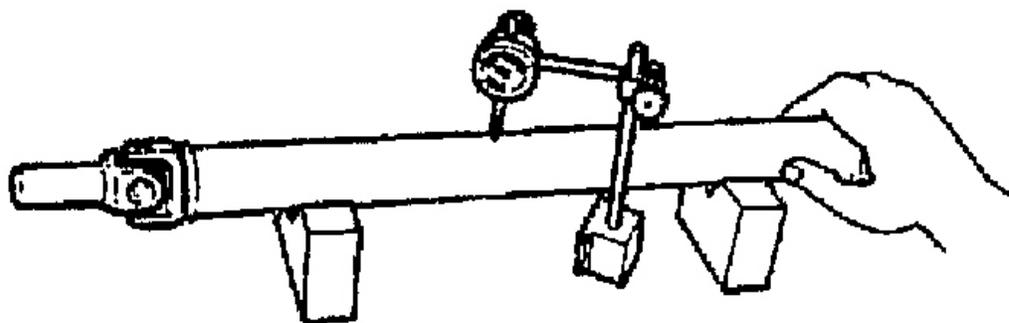
1. Clean the propeller shaft (except for the universal joint) with a steam cleaner or solvent.

2. Measure the propeller shaft runout using a dial indicator. Replace the propeller shaft if runout is excessive.

**Maximum runout**

**0.4 mm {0.016 in}**

3. Move the universal joints in the directions shown, and check for universal joint looseness.



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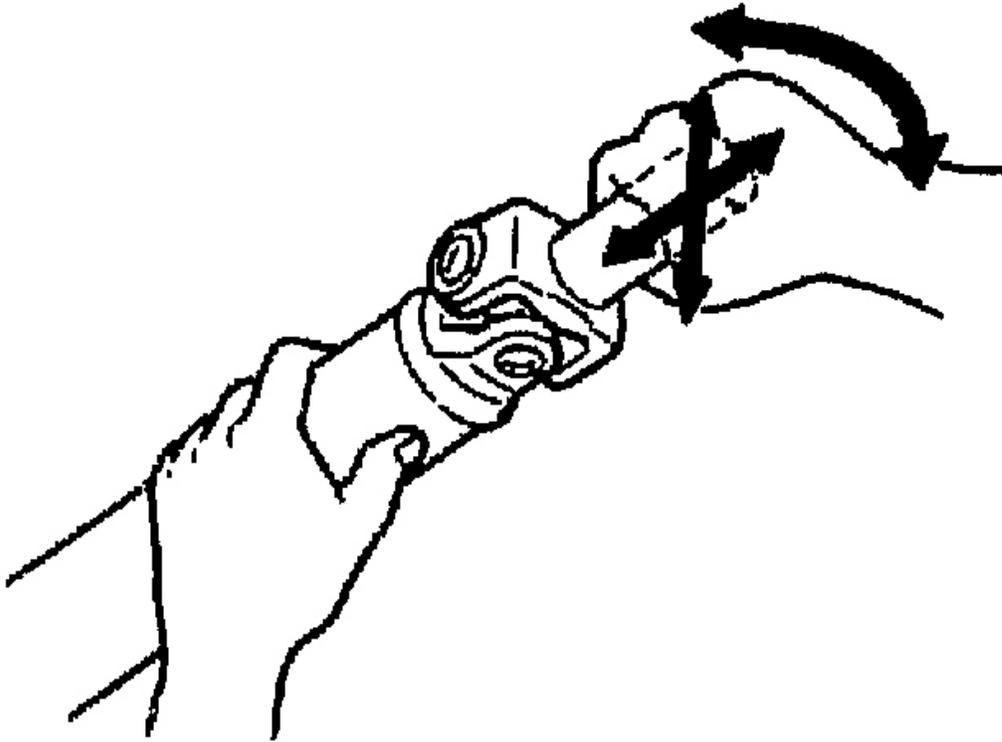
**Fig. 6: Measuring Propeller Shaft Runout Using Dial Indicator**  
Courtesy of MAZDA MOTORS CORP.

- If there is looseness, replace the propeller shaft.

**NOTE:**

- Starting torque:0.30-0.98 N.m {3.0-10.0 kgf.cm, 2.7-8.6 in.lbf}

4. Inspect for operation of the universal joint.
  - If the universal joint has excessive resistance, replace the propeller shaft.



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**Fig. 7: Inspecting For Operation Of Universal Joint**  
Courtesy of MAZDA MOTORS CORP.