### 1989 Mazda RX-7 Factory Service Manual

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## **PROPELLER SHAFT**

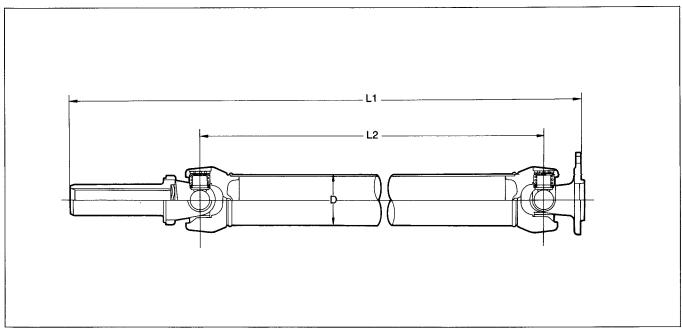
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# L OUTLINE, TROUBLESHOOTING GUIDE, PROPELLER SHAFT

#### **OUTLINE**

#### **SPECIFICATIONS**

Model		Non-Turbo		Turbo	
Item		M/T	A/T	M/T	A/T
Length mm (in)	L1	967 (38.07)	913 (35.94)	966 (38.03)	
	L2	782 (30.79)	733 (28.86)	774 (30.47)	
Outer diameter mm (in)	D	57 ( 2.24)	57 ( 2.24)	75 ( 2.95)	<del>-</del>



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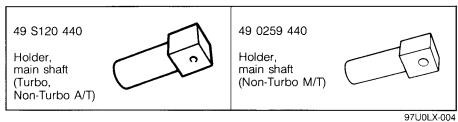
#### TROUBLESHOOTING GUIDE

Problem	Possible Cause	Action	Page
Vibration	Worn universal joint Bent propeller shaft Worn slip yoke splines Runout of propeller shaft	Replace Replace Replace Replace	L-3 L-3 L-3 L-3
Abnormal noise	Worn or damaged universal joint Worn slip yoke splines	Replace Replace	L-3 L-3

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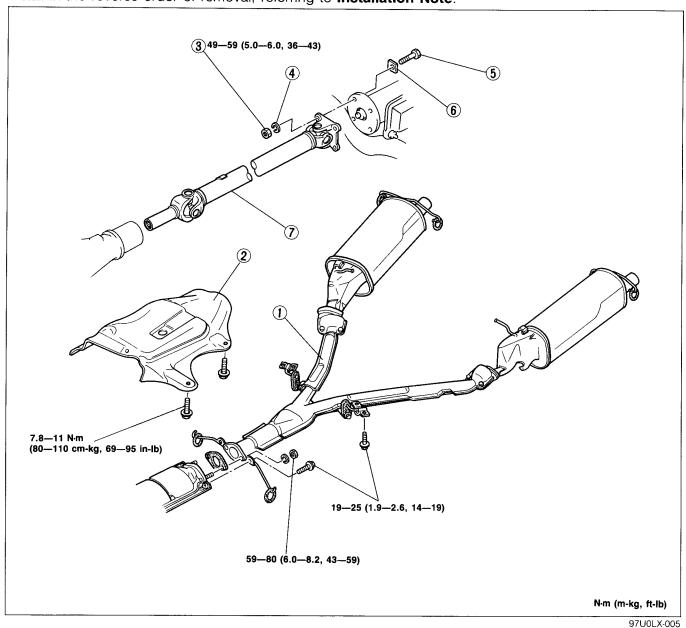
#### **PROPELLER SHAFT**

#### **PREPARATION SST**



#### REMOVAL, INSPECTION, AND INSTALLATION

Remove in the order shown in the figure, referring to Removal Note. Inspect all parts and repair or replace as necessary. Install in the reverse order of removal, referring to Installation Note.



- 1. Exhaust pipe
- 2. Heat insulator
- 3. Nut

- 4. Lock washer
- 5. Bolt
- 6. Balance washer

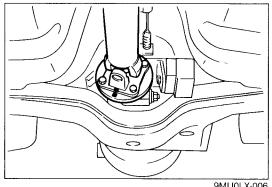
#### 7. Propeller shaft

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Removal	page	L-	3
Inspection	page	L-	4

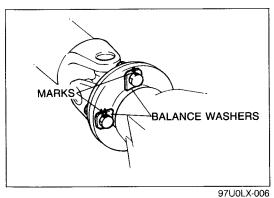


#### **Removal Note** Propeller shaft

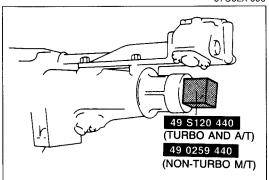
1. Before removing the propeller shaft, mark the flanges for correct reassembly.



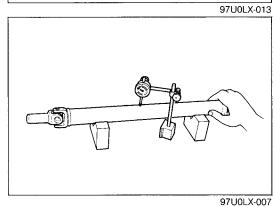
#### PROPELLER SHAFT



2. Mark the balance washers for correct reassembly.



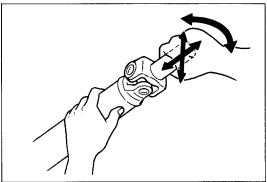
3. When the propeller shaft is removed from the extension housing, immediately install the **SST** to prevent oil leakage.



INSPECTION Propeller shaft

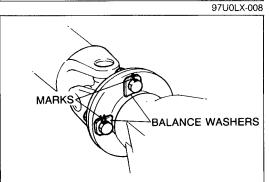
1. Measure the propeller shaft runout with a dial indicator. Replace the propeller shaft if runout is excessive.

Maximum runout: 0.4mm (0.016 in)



- 2. Move the universal joints in the direction shown and check for universal joint play.

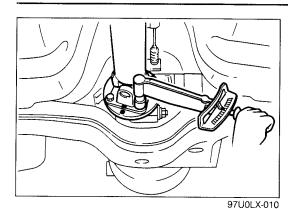
  If there is play, replace the propeller shaft.
- Check operation of the universal joint.
   If the universal joint has excessive resistance, replace the propeller shaft.



Installation Note Propeller shaft

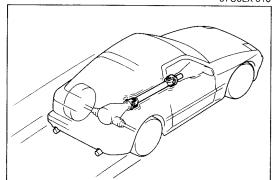
1. Align the marks, and install the balance washers.



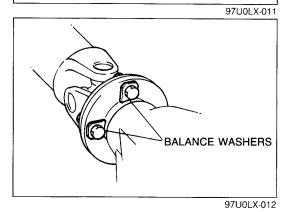


2. Align the marks, and install the propeller shaft.

Tightening torque: 49—59 N·m (5.0—6.0 m-kg, 36—43 ft-lb)



3. Check that there is no abnormal noise or vibration when driving the vehicle.



4. If noise or vibration occurs from the propeller shaft, install or change balance washers on the flange. (Install the washers 90° to each other if more than one is used.)

# Washer weight g (oz) 2.2 (0.08) 3.4 (0.12) 4.5 (0.16) 5.6 (0.20)