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This file was not scanned to deprive Mazda of any money - it was scanned due to the rareness of the original manuals and the overwhelming need of the RX-7 owner to have this information so that they can accurately troubleshoot problems. Perhaps if Mazda's dealerships could support the Rotary Engine it wouldn't be so necessary for the owners to do so.



Many thanks to Scott89t2 and <u>www.1300cc.com</u> for scanning this file.

1989 Mazda RX-7 Factory Service Manual

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Some parts of the manual may be hard to read or see on the screen, but if you print the pages out it's perfect. Well except for the crookedness O.

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PROPELLER SHAFT

L

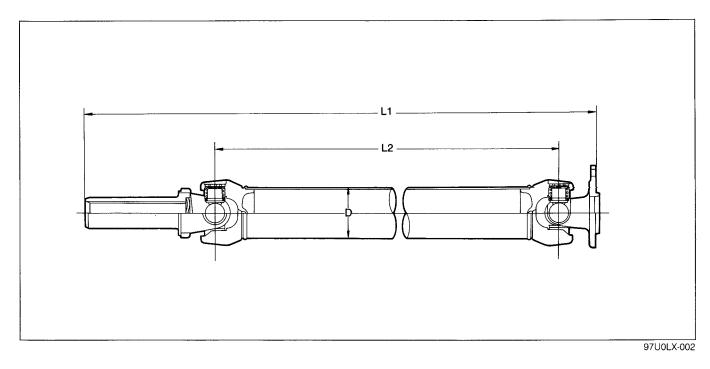
OUTLINE	L- 2
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	97U0LX-001

L OUTLINE, TROUBLESHOOTING GUIDE, PROPELLER SHAFT

OUTLINE

SPECIFICATIONS

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



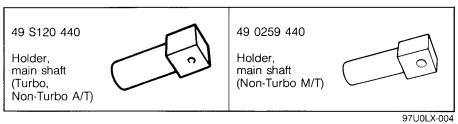
TROUBLESHOOTING GUIDE

Problem	Possible Cause	Action	Page
Vibration	Worn universal joint Bent propeller shaft Worn slip yoke splines Runout of propeller shaft	Replace Replace Replace Replace 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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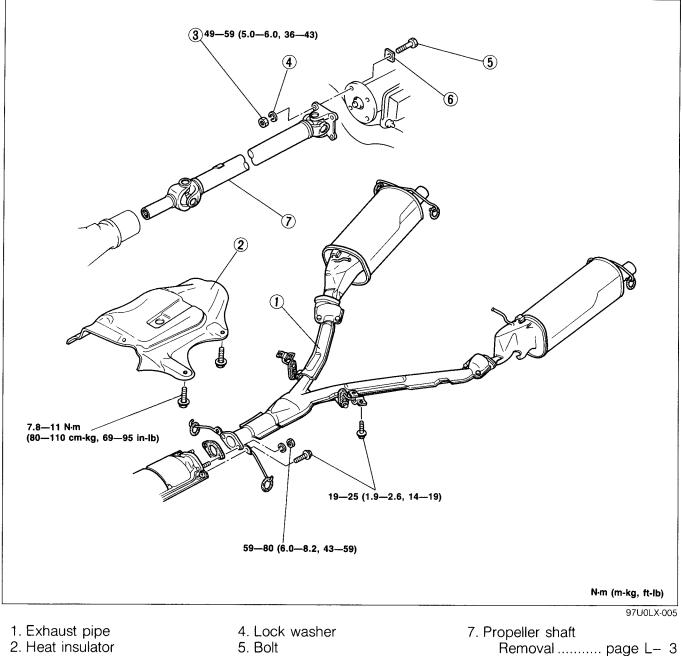
PROPELLER SHAFT

PREPARATION SST



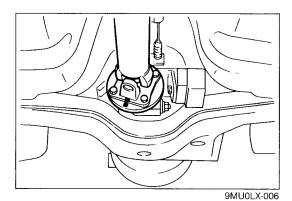
REMOVAL, INSPECTION, AND INSTALLATION

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.



- 2. Heat insulator
- 3. Nut

- 5. Bolt
- 6. Balance washer

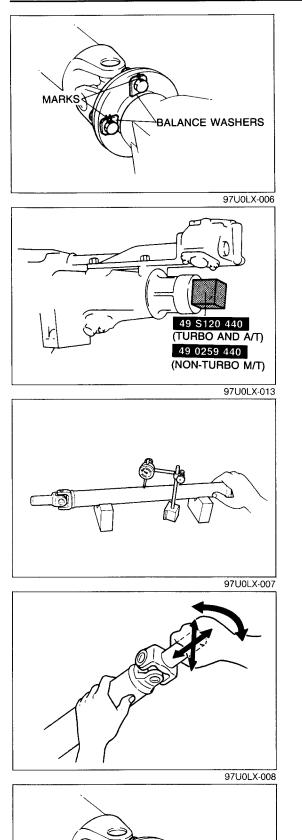


Removal Note Propeller shaft

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

Inspection..... page L- 4 Installation page L- 4

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

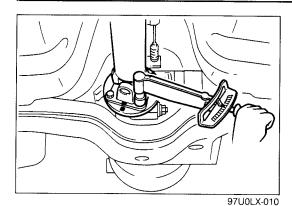
Installation Note Propeller shaft

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

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BALANCE WASHERS

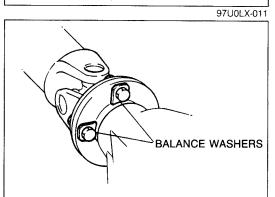
MARKS



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.



97U0LX-012

 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)		

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