This file is available for free download at http://www.iluvmyrx7.com

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 Anh Diep for scanning this file.

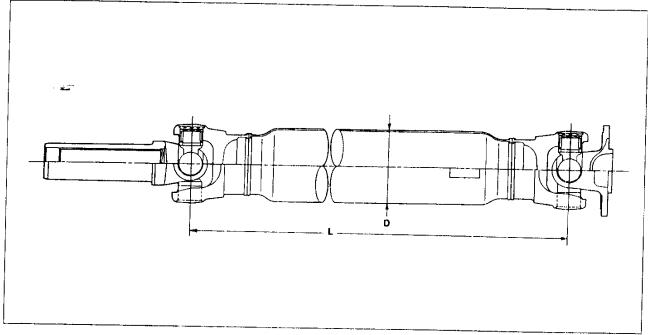
PROPELLER SHAFT

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OUTLINE

SPECIFICATIONS

	Engine / Transmission	RE 13B (TURBO)	
ltem		R15M-D (MT)	RB4A-EL (AT)
Length	mm {in} L	863 {33.98}	875 (34.45)
Outer diameter	mm {in} D	75	(3.0)



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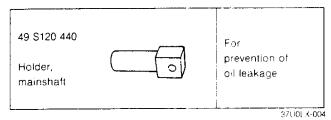
TROUBLESHOOTING GUIDE

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

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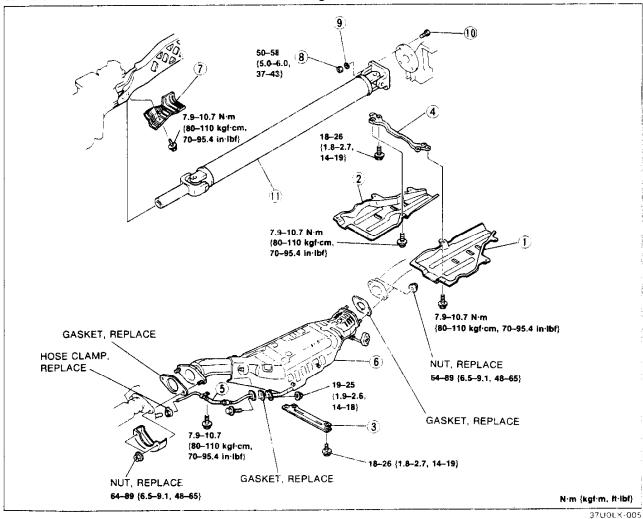
PROPELLER SHAFT

PREPARATION SST



REMOVAL / INSPECTION / INSTALLATION

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



- 1. Left undercover
- 2. Right undercover
- 3. Tunnel reinforcement (center)
- 4. Tunnel reinforcement (rear)
- 5. Secondary air injection pipe
- Catalytic converter assembly
- 7. Cover
- 8. Nut
- 9. Lock washer
- 10. Bolt

11. Propeller shaft Removal Note

	page	L -4
Inspection	page	L-4
Installation Note		

Installation Note

PROPELLER SHAFT

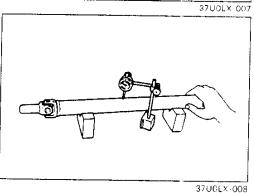


Removal Note Propeller shaft

1. Before removing the propeller shaft, mark the companion flange and yoke for correct reassembly.



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



Inspection Propeller shaft

Note

- Before inspecting, clean the propeller shaft (except for the universal joint) with a steam cleaner or solvent.
- 1. Measure the propeller shaft runout with a dial indicator.
- 2. If the runout is excessive, replace the propeller shaft assembly.



3. Move the universal joint in the direction shown, and inspect joint play.

Note

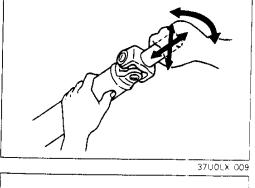
Starting torque
 Front yoke:

30-98 N·m {3.0-10 kgf·m, 22-72 ft·lbf}

Rear yoke:

30-98 N·m {3.0-10 kgf·m, 22-72 ft·lbf}

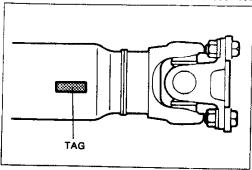
4. If there is excessive play or the starting torque is not within specification, replace the propeller shaft.

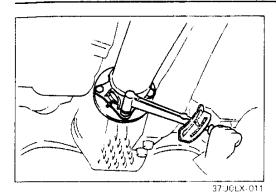


installation Note Propeller shaft

Caution

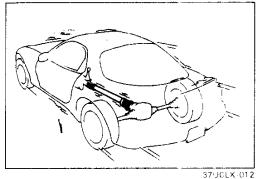
If installing a new propeller shaft, align the differential companion flange precast marking with the tag on the propeller shaft.





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

Tightening torque: 50–58 N·m {5.0–6.0 kgf·m, 37–43 ft·lbf}



- 2. Perform a road test and verify that there is no noise or vibration when driving the vehicle.
- 3. If noise or vibration comes from the propeller shaft assembly, replace it.

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