

Mazda Rx 7 Front And Rear Axles Shop Repair Manual

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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.



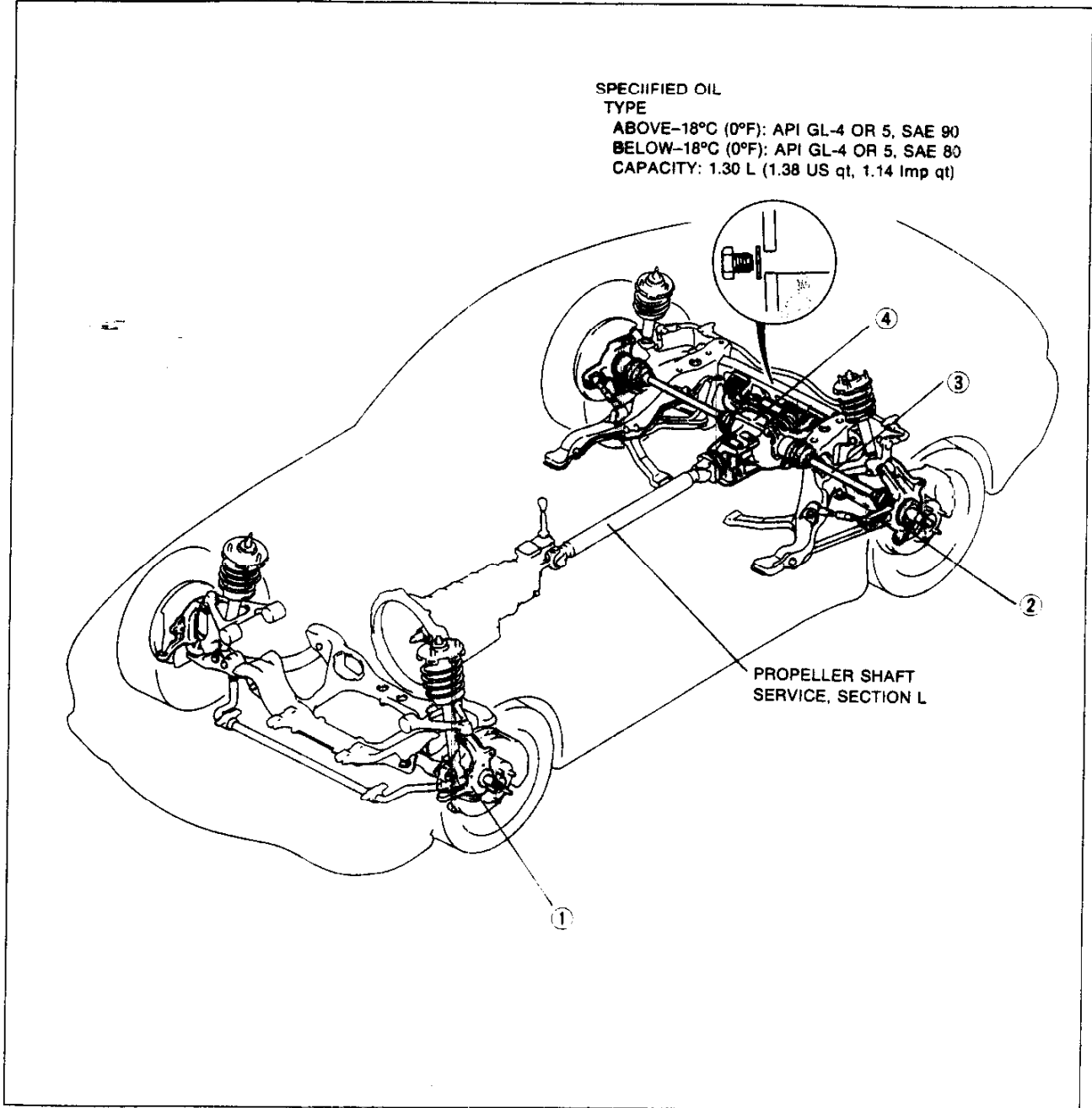
Many thanks to Anh Diep for scanning this file.

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FRONT AND REAR AXLES

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TROUBLESHOOTING GUIDE

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OUTLINE

SPECIFICATION

Item	Engine / Transmission		13B	
			MT	AT
Front axle				
Bearing type	Unitized angular ball bearing			
Rear axle				
Bearing type	Unitized angular ball bearing			
Drive shaft				
Type	Constant velocity joint			
Length (between centers of joints)	mm {in}	484.2 {19.06}		
Diameter	mm {in}	29.0 {1.14}		
Differential				
Type	Torque sensing LSD			
Reduction gear	Hypoid gear			
Differential gear	Worm gear			
Reduction ratio			4.100	3.909
Number of teeth	Ring gear	41		43
	Drive pinion gear	10		11
Ring gear size	mm {in}	204.2 {8.038}		
Oil	Grade	mm {in}	API service GL-4 or 5	
	Viscosity	Above- 18°C (0°F): SAE 90 Below- 18°C (0°F): SAE 80		
	Capacity	L {US qt, Imp qt}	1.30 {1.38, 1.14}	

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TROUBLESHOOTING GUIDE

Problem	Possible Cause	Action	Page
Front axle			
Steering wheel vibration	Worn or damaged wheel bearing	Replace	M- 5
Pulls or one-sided braking	Worn or damaged wheel bearing	Replace	M- 5
Rear axle			
Abnormal noise	Worn or damaged wheel bearing	Replace	M-12
	Bent drive shaft	Replace	M-15
	Worn drive shaft spline	Replace	M-15
Differential			
Abnormal noise	Insufficient differential oil	Add oil	M-23
	Incorrect differential oil	Replace	M-23
	Worn or damaged side bearing	Replace	M-30
	Worn or damaged ring gear	Replace	M-30
	Worn or damaged drive pinion bearing	Replace	M-30
	Worn or damaged gear in LSD assembly	Replace gear case	M-30
	Worn side gear spline	Replace	M-30
	Improperly adjusted drive pinion gear preload	Adjust	M-38
	Improperly adjusted ring gear backlash	Adjust	M-39
	Poor contact of ring gear teeth	Adjust	M-41
Heat buildup	Insufficient differential oil	Add oil	M-23
	Insufficient drive pinion gear backlash	Adjust	M-39
	Excessive bearing preload	Adjust	M-38
Oil leakage	Excessive differential oil	Remove oil	M-23
	Worn or damaged oil seal	Replace	M-24
	Loose differential carrier	Tighten or repair	M-30
No differential operation	Misassembled or damaged	Repair or replace	M-30

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