

# TRANSMISSION SERVICING - M/T

## 1991 Mazda Miata

### 1991 Manual Transmission Servicing

B2200, B2600i, Miata, MPV, MX-6, Navajo, Protege, RX7, 323, 626

## IDENTIFICATION

### MAZDA MANUAL TRANSMISSION/TRANSAXLE APPLICATIONS

Model	Transmission/Transaxle
B2200	
4-Speed	M4M-D
5-Speed	M5M-D
B2600i	
2WD	R5M-D
4WD	R5MX-D
Miata	5-Speed M-Type
MPV	
2WD	R5M-D
4WD	R5MX-D
MX-6 & 626	
Non-Turbo	G5M-R
Turbo	H5M-R
Navajo	M-50D
Protege (DOHC)	G5M-R
Protege (SOHC) & 323	F5M-R
RX7	
Non-Turbo	5-Speed M-Type
Turbo	5-Speed R-Type

## LUBRICATION SERVICE INTERVALS

### FLUID INSPECTION & REPLACEMENT

Check fluid level(s) at least once a year. Change transmission/transaxle and transfer case fluids every 60,000 miles for normal driving conditions and every 30,000 miles for severe driving conditions.

## CHECKING LUBRICANT FLUID LEVEL

### TRANSAXLE FLUID (FWD)

Remove speedometer housing hold-down bolt and withdraw housing. Wipe speedometer driven gear and fully insert into transaxle. Use "L" and "F" marks on driven gear to determine fluid level. If necessary, add oil through driven gear opening. See Fig. 1.

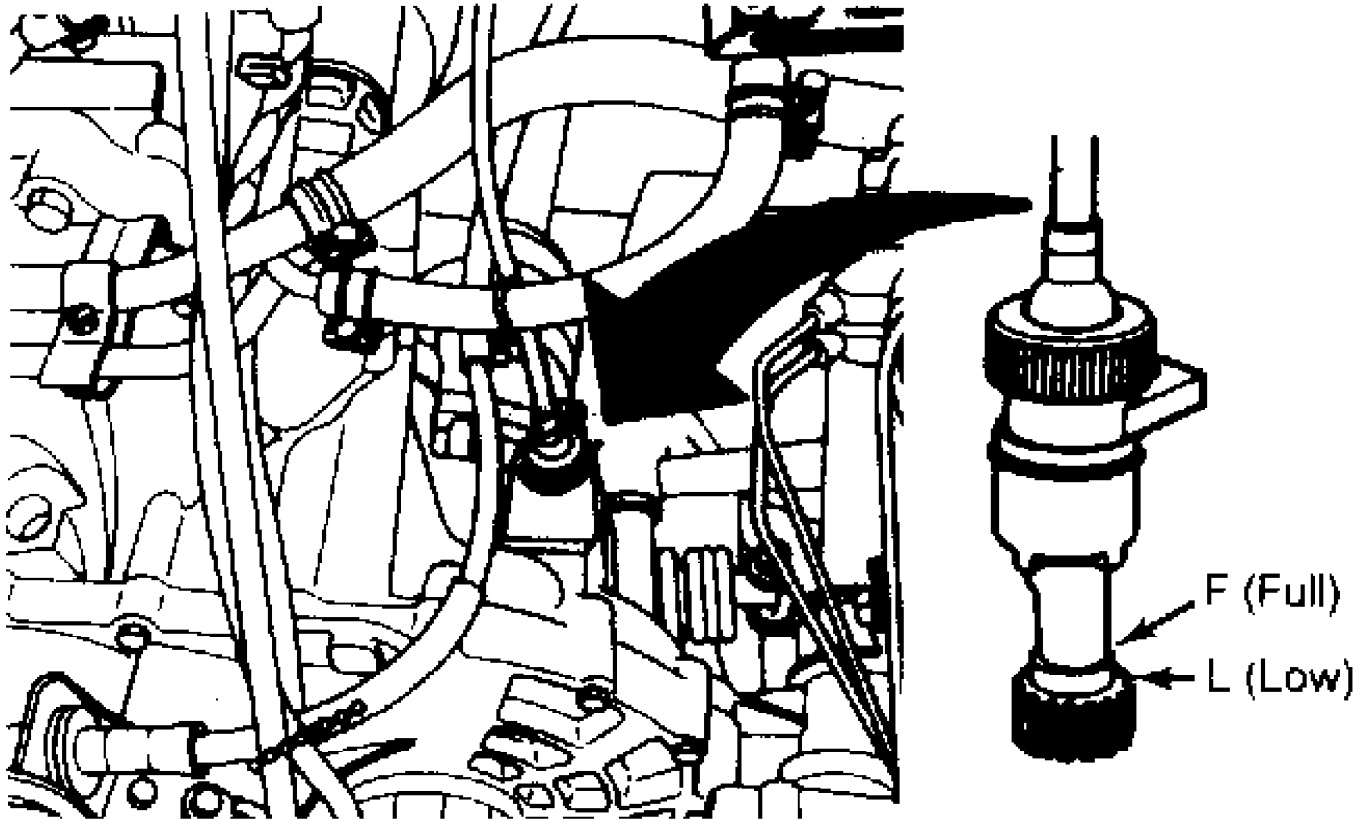


Fig. 1: Checking Oil Level FWD (MX-6 & 626; Protege & 323 Similar)  
 Courtesy Mazda Motors Co.

### TRANSMISSION FLUID (RWD)

Fluid should be up to bottom of fill hole on side of case. B2600i, MPV and RX7 Turbo models have 2 drain and 2 fill plugs in transmission case. Fluid should be up to bottom of rear fill hole on side of case.

### TRANSFER CASE FLUID (4WD)

Fluid should be up to bottom of fill hole on side of transfer case.

### RECOMMENDED LUBRICANT FLUID

#### FLUID SPECIFICATIONS TABLE

Application	Recommended Fluid
Transmission/Transaxle Fluid	
B2200, B2600i, Miata, MPV, Navajo & RX7	
All-Season Usage .....	(1) SAE 75W-90
Temp. Greater Than 50°F (10°C) .....	(1) SAE 80W-90
MX-6 & 626	
All Season Usage .....	Dexron-II or (1) SAE 75W-90
Temp. Greater Than 0°F (-18°C) .....	(1) SAE 80W-90
Protege DOHC	
Temp. Less Than 0°F (-18°C) .....	Dexron-II or M2C33F
Temp. Greater Than 0°F (-18°C) .....	(1) SAE 80W-90

Protege SOHC & 323 ..... (1) SAE 75W-90  
 Transfer Case Fluid  
 B2600i & MPV  
 All-Season Usage ..... (1) SAE 75W-90  
 Temp. Greater Than 50°F (10°C) ..... (1) SAE 80W-90  
 Navajo ..... MERCON ATF  
 Protege  
 Temp. Less Than 0°F (-18°C) ..... Dexron-II or M-III  
 Temp. Greater Than 0°F (-18°C) ..... (1) SAE 75W-90

(1) - API GL-4 or GL-5.

## LUBRICANT FLUID CAPACITY

TRANSMISSION/TRANSAXLE REFILL CAPACITIES TABLE

Application	Pts. (L)
B2200	
4-Speed .....	3.6 (1.7)
5-Speed .....	4.2 (2.0)
B2600i	
2WD .....	6.0 (2.8)
4WD .....	6.8 (3.2)
Miata .....	4.2 (2.0)
MPV	
2WD .....	5.2 (2.5)
4WD .....	5.6 (2.6)
MX-6 & 626	
Non-Turbo .....	7.2 (3.4)
Turbo .....	7.8 (3.7)
Navajo .....	5.6 (2.6)
Protege (DOHC) .....	7.2 (3.4)
Protege (SOHC) & 323 .....	5.7 (2.7)
RX7 .....	5.2 (2.5)

TRANSFER CASE REFILL CAPACITIES TABLE

Application	Pts. (L)
B2600i .....	4.2 (2.0)
MPV .....	3.2 (1.5)
Navajo .....	2.5 (1.2)
Protege .....	5.4 (2.6)

## GEARSHIFT LINKAGE ADJUSTMENTS

No external linkage adjustment is required.

## TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

Application	Ft. Lbs. (N.m)
Drain Plug	
B2200, Protege, MX-6, Navajo, RX7, 323 & 626 ..	29-43 (39-58)
B2600i & MPV	

Forward Transmission Plug & Transfer Case Plug .....	29-43	(39-58)
Rearward Transmission Plug B2600i .....	18-29	(24-39)
MPV .....	23-34	(31-46)
Miata .....	18-29	(24-39)
Filler Plug & Check Plug B2200, B2600i, Miata, MPV & RX7 .....	18-29	(24-39)
Navajo .....	29-43	(39-58)
	INCH Lbs. (N.m)	
Speedometer Gear Bolt (FWD) .....	69-95	(8-11)

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