

1991 Mazda MX-5 Miata

TRANSMISSION SERVICING - M/T 1991 Manual Transmission Servicing

TRANSMISSION SERVICING - M/T

1991 Manual Transmission Servicing

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

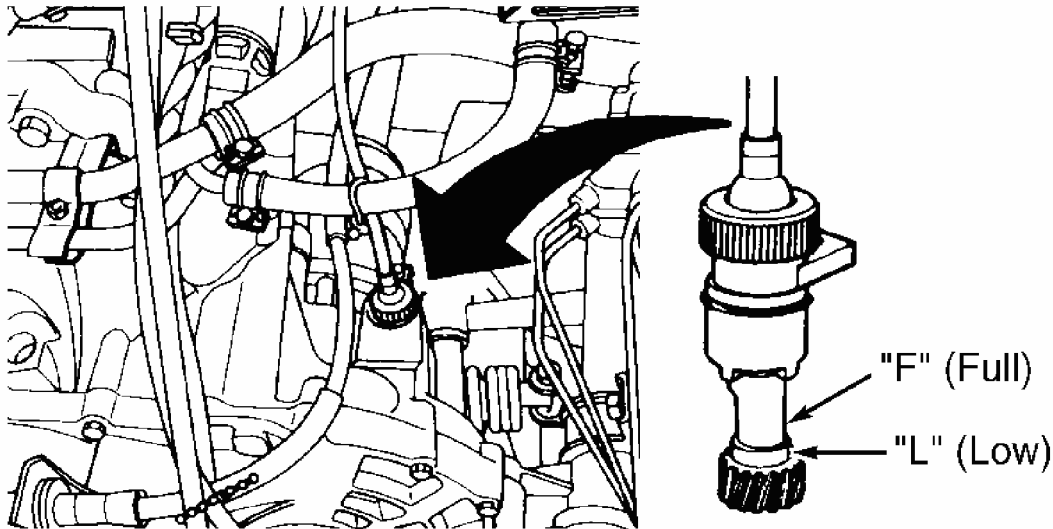
Check fluid level(s) at least once a year. Change transmission/transaxle and transfer case fluids every 60,000 miles for normal driving conditions and every 30,000 miles for severe driving conditions.

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** .



82911

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

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

1991 Mazda MX-5 Miata

TRANSMISSION SERVICING - M/T 1991 Manual Transmission Servicing

	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

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)

1991 Mazda MX-5 Miata**TRANSMISSION SERVICING - M/T 1991 Manual Transmission Servicing****TRANSFER CASE REFILL CAPACITIES**

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**

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)