

TRANSMISSION SERVICING - A/T

Article Text

1993 Mazda 929

For Techdoc Ltd.

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Thursday, March 25, 1999 12:14AM

ARTICLE BEGINNING

1992-94 TRANSMISSION SERVICING
Mazda - Automatic Transmission

929

NOTE: On models with anti-theft radio system, obtain code number from customer to deactivate radio anti-theft system BEFORE disconnecting negative battery cable. To deactivate radio anti-theft system, turn ignition switch to ACC position. Press FF and REW buttons simultaneously until "cod e" is displayed. Press FF and REW buttons again until 4 bars are displayed. Use preset button No. 1 to enter first number. Use preset buttons No. 2, 3 and 4 to set other numbers. Press FF and REW buttons for about 2 seconds until a beep is heard. After 5 seconds, flashing "cod e" will go away and radio will operate.

IDENTIFICATION

AUTOMATIC TRANSMISSION APPLICATIONS TABLE

AA	
Model	Transmission
929	R4A-EL
AA	

LUBRICATION

SERVICE INTERVALS

Transmission Fluid
Check fluid level every 7500 miles or 6 months.

CHECKING FLUID LEVEL

Transmission
Park vehicle on level ground. Apply parking brake. Warm engine to normal operating temperature. Briefly place selector lever in all gears and return it to "P" position. Clean dipstick and insert it in tube. Remove dipstick. Level should be between "L" and "F" marks. Check fluid for discoloration and unusual smell. If necessary, add fluid. DO NOT overfill.

RECOMMENDED FLUID

Transmission
Use Dexron-II or M-III ATF.

FLUID CAPACITIES

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TRANSMISSION REFILL CAPACITIES TABLE

TRANSMISSION REFILL CAPACITIES TABLE		
Application	Refill Qts. (L)	Dry Fill Qts. (L)
929	4.2 (4.0)	9.1 Qts. (8.6L)

DRAINING & REFILLING

Disconnect negative battery cable. Loosen oil pan bolts to drain fluid. Remove oil pan, and discard old gasket. Clean oil pan, and install it using NEW gasket. Tighten oil pan bolts to specification. See TORQUE SPECIFICATIONS. Connect negative battery cable. Add fluid, and check level. DO NOT overfill.

ADJUSTMENTS

BRAKE BAND (2ND GEAR)

Loosen lock nut on band adjusting bolt. See Fig. 1. Tighten bolt to 35-53 INCH lbs (4-6 N.m). Loosen band adjusting bolt 2 1/2 turns. Tighten lock nut to 24-31 ft. lbs. (32-42 N.m).

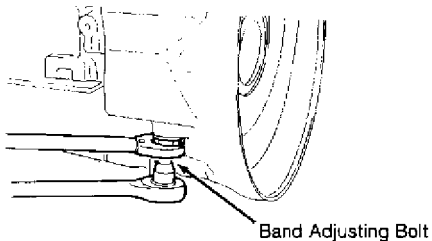


Fig. 1: Adjusting Brake Band
Courtesy of Mazda Motors Corp.

OVERDRIVE BRAKE BAND

NOTE: Overdrive brake band is not adjustable.

GEARSHIFT LINKAGE

1) Disconnect negative battery cable. Remove center console. On all models, remove boot plate. Place gearshift lever in "P" position. Loosen lock nut on side of gearshift lever. See Fig. 2. Move adjustment lever forward to set transmission in "P" position.

2) Adjust lever so clearance between guide plate and guide pin with lever in position "P" is as specified. See Fig. 3. Also, see the GEARSHIFT LEVER ADJUSTMENT SPECIFICATIONS table. Tighten rear lock nut to 14-21 ft. lbs. (19-28 N.m).

3) Place gearshift lever in "N" and "D" positions to ensure clearances are correct. See GEARSHIFT LEVER ADJUSTMENT SPECIFICATIONS table. See Fig. 3. Adjust lever if necessary. Install boot plate,

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center console, indicator panel, selector sleeve, selector knob and upper panel. Connect negative battery cable.

GEARSHIFT LEVER ADJUSTMENT SPECIFICATIONS TABLE

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Application (1) In. (mm)

Gearshift In Position "P"

Clearance "A" (2)035-.039 (.89-.99)

Clearance "B" (2)020-.024 (.51-.61)

Gearshift In Position "N" Or "D"

Clearance "C"024-.028 (.61-.71)

Clearance "D"024-.028 (.61-.71)

(1) - Clearance between guide plate and guide pin.

See Fig. 3.

(2) - With push rod slightly depressed.

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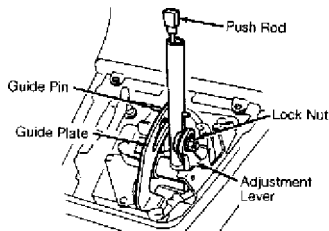


Fig. 2: Gearshift Lever Components ID
Courtesy of Mazda Motors Corp.

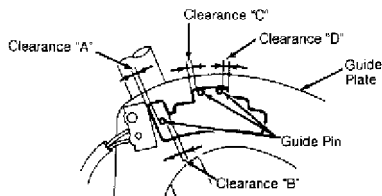


Fig. 3: Checking Gearshift Lever Adjustment Clearances
Courtesy of Mazda Motors Corp.

NEUTRAL SAFETY SWITCH

1) Place gearshift lever in "N" position. Ensure gearshift linkage is adjusted correctly. See GEARSHIFT LINKAGE under ADJUSTMENTS. Loosen neutral safety switch mounting bolts at

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transmission. Remove screw from alignment pin hole at bottom of switch (if equipped).

2) Rotate switch and insert a 5/32" (4.0 mm) alignment pin (or drill bit) through alignment holes.

3) Tighten mounting bolts to specification. Refer to the TORQUE SPECIFICATIONS table. Remove alignment pin. Install alignment pin hole screw (if equipped), and check switch operation. Vehicle should start only with gearshift in "P" or "N" position.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

AA

Application	INCH Lbs. (N.m)
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Neutral Safety Switch Mounting Bolt 22-35 (2.5-4.0)
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Oil Pan Bolt 43-69 (5.0-8.0)
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Valve Body Bolt 61-78 (7.0-9.0)
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END OF ARTICLE