

TRANSMISSION SERVICING - A/T

TRANSMISSION SERVICING Automatic Transmission

APPLICATION

AUTOMATIC TRANSMISSION APPLICATIONS

Model	Transmission
Cougar	4R70W Transmission
Crown Victoria	4R70W Transmission
Grand Marquis	4R70W Transmission
Mark VIII	4R70W Transmission
Thunderbird	4R70W Transmission
Town Car	4R70W Transmission

LUBRICATION

SERVICE INTERVALS

Check fluid level at every engine oil change. Filter change and band adjustments are not required under normal operation. Fluid change is recommended every 30,000 miles. If vehicle is operated under following conditions, replace transmission fluid every 21,000 miles:

- In hot weather with temperature greater than 90°F (32°C), carrying heavy loads and/or in hilly terrain.
- Towing a trailer or using a car top carrier.
- In police, taxi or door-to-door delivery service.

CHECKING FLUID LEVEL

1. Transmission or transaxle must be at normal operating temperature with vehicle on level ground. Apply parking brake, and run engine at curb idle. Shift gear selector lever through all positions, ending in Park.
2. Fluid level should be in crosshatch area on dipstick if checked at operating temperature. If transmission is at room temperature, fluid level should be between 2 dimples on bottom of dipstick.
3. **DO NOT** overfill. Check condition of fluid for contamination and burned smell. Fully reseal dipstick.

RECOMMENDED FLUID

Use Mercon (XT-2-QDX) ATF.

FLUID CAPACITIES

NOTE: Transmission fluid capacities in TRANSMISSION FLUID CAPACITIES table are approximate quantities. Correct fluid level should be determined using dipstick.

TRANSMISSION FLUID CAPACITIES

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Application	(1) Qts. (L)
4R70W	12.5 (11.8)
(1) Includes oil cooler (if equipped).	

DRAINING & REFILLING

1. Raise and support vehicle. Place drain pan under transmission. Loosen oil pan retaining bolts. Drain fluid from transmission. Remove oil pan bolts individually. This allows remaining fluid to drain slowly to prevent spillage. Remove oil pan.
2. Discard pan gasket. Remove and clean filter screen. Reinstall or replace filter screen using NEW "O" rings.
3. Clean oil pan, and install pan using NEW pan gasket. Pour 3 qts. (2.8L) of fluid through filler tube. Start engine, and engage all gears. Check fluid level, adding required amount.

ADJUSTMENTS

CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See COMPUTER RELEARN PROCEDURES article in GENERAL INFORMATION before disconnecting battery.

SHIFT CABLE/LINKAGE

1. Position transmission shift lever in Overdrive position. Hold shift lever against rear overdrive stop with a constant force of about 3 lbs. (1.4 kg). Loosen shift control cable retaining nut at transmission. Ensure transmission/transaxle manual lever is in Overdrive position. Overdrive is second detent from rear most position.
2. Tighten shift control cable retaining nut to 13-17 ft. lbs. (17-23 N.m). Check transmission operation in each position. Ensure neutral start switch and back-up lights operate properly.

KICKDOWN CABLE

NOTE: Information is not available from manufacturer.

TRANSMISSION RANGE (TR) SENSOR

Remove nut securing Transmission Range (TR) sensor to manual lever. Turn manual lever to Neutral position. Loosen bolts securing TR sensor to transaxle. Using Adjuster (T92P-70010-AH), align TR sensor slots. Tighten TR sensor mounting bolts. Install manual lever retaining nut. Tighten retaining nut to specification. Refer to the **TORQUE SPECIFICATIONS** table. Test sensor operation.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

Transmission	INCH Lbs. (N.m)
Filter Screen	80-124 (8.9-14)

Transmission Range (TR) Sensor/Switch Bolts	84-108 (9-12)
Park/Neutral Position Switch Bolts	84-108 (9-12)
Oil Pan	71-124 (8-14)