

## TRANSMISSION REMOVAL & INSTALLATION - A/T

### TRANSMISSION SERVICING Transmission Removal & Installation

## AUTOMATIC TRANSMISSION REMOVAL & INSTALLATION

**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.

### AOD-E & 4R70W

#### Removal (Cougar, Crown Victoria, Grand Marquis, Mark VIII, Mustang, Thunderbird & Town Car)

1. Raise and support vehicle. Remove torque converter access cover and adapter plate bolts from lower left side of torque converter housing. Drain transmission fluid (including torque converter). Mark torque converter-to-flexplate position for installation reference. Remove 4 torque converter-to-flexplate nuts. Turn crankshaft clockwise (as viewed from front) to access nuts.
2. Mark position of yokes and remove drive shaft. See **DRIVE SHAFT ALIGNMENT** article. Disconnect and remove speedometer sensor from extension housing. Remove starter.
3. Remove rear mount-to-crossmember bolts and 2 crossmember-to-frame bolts. Remove 2 engine rear support-to-extension housing attaching bolts.
4. Disconnect throttle valve linkage rod or cable from transmission. Remove cable from bracket. Remove bracket from bellhousing.
5. Disconnect manual rod from transmission manual lever. Remove 2 bellcrank bracket-to-torque converter housing bolts. Disconnect Transmission Range (TR) sensor wires.
6. Position jack under transmission. Secure transmission to jack using a safety chain. Raise transmission slightly. Remove engine support-to-crossmember bolts. Remove crossmember-to-frame bolts. Remove crossmember, insulator support and damper.
7. Remove any interfering exhaust system hardware. Lower jack slightly to access oil cooler lines. Disconnect oil cooler lines from transmission. Plug openings.
8. Remove lower torque converter-to-housing bolts. Remove transmission filler tube. Slide transmission to rear, and lower it from vehicle.

#### Installation

1. To install transmission, reverse removal procedure. Ensure torque converter is fully seated in pump. Lubricate torque converter pilot with chassis grease.
2. Align the Orange balancing marks (if present) on torque converter and flexplate. Align torque converter drive studs and drain plug with holes in flexplate.
3. Adjust manual and downshift linkage. Fill transmission to proper level with Automatic Transmission Fluid (ATF). Refer to **TRANSMISSION DIAGNOSIS** article. If any shift rods are disassembled, install **NEW** plastic grommets.

## TORQUE SPECIFICATIONS

**TORQUE SPECIFICATIONS (AOD-E & 4R70W)**

<b>Application</b>	<b>Ft. Lbs. (N.m)</b>
Converter Drain Plug	21-23 (28-31)
Crossmember-To-Side Support Bolt	70-100 (95-136)
Crossmember-To-Transmission	64-81 (87-110)
Extension Housing Bolts	18-22 (25-30)
Front Pump-To-Case	15-19 (20-26)
Torque Converter Access Cover Bolt	12-16 (16-22)
Torque Converter-To-Flexplate Nut	20-34 (27-46)
Transmission Oil Cooler Line	15-19 (20-26)
Transmission-To-Engine Bolt	40-50 (54-67)
Wheel Lug Nut	85-105 (115-142)
	<b>INCH Lbs. (N.m)</b>
Cover Plate-To-Valve Body	80-100 (9-11)
Oil Pan Bolt	107-144 (12-16)
Valve Body Bolt	80-100 (9-11)