

# TRANSMISSION REMOVAL & INSTALLATION - M/T

## 1998 MANUAL TRANSMISSION REMOVAL General Motors - T56 85-mm 6-Speed

### REMOVAL & INSTALLATION

#### TRANSMISSION

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

#### Removal & Installation

1. Disconnect negative battery cable. Remove center console cover. Pry up and remove shifter lever button. Remove set screw and shifter knob. Remove shift control boot. Remove center console trim plate. Remove shift control closeout cover. Remove shift control assembly. Remove instrument panel lower insulator panel.
2. Disconnect clutch pushrod from clutch pedal. Raise and support vehicle. Remove clutch actuator hose from retaining clip at rear of engine. Using Clutch Depressor (J-36221), depress release ring on actuator hose while pulling on master cylinder hose to disconnect. Remove rear wheels. Remove intermediate exhaust pipe. Wire muffler assemblies out of way. Remove driveline tunnel closeout panel.
3. Remove rear transverse spring. Support lower control arm with jack. Disconnect left outer tie rod end from suspension knuckle. Remove left lower shock absorber mounting bolt. Disconnect lower ball joint from steering knuckle.
4. Remove jack supporting left control arm. Repeat step 3) on right side of vehicle. Install Transmission Support Fixture (J-42055) onto transmission jack. Position jack and firmly secure jack to transmission. Disconnect wiring harness and brake hose clip from rear crossmember.
5. Remove lower differential-to-transmission nut. Remove transaxle mount-to-rear crossmember nuts. Place a transmission jack under rear crossmember and secure crossmember to jack. Using hand tools, remove rear crossmember retaining nuts.
6. With aid of an assistant, slowly lower rear crossmember and remove from vehicle. Remove transaxle mount-to-differential bolts, and remove mount. Using pry bar, gently release axle shafts from transaxle. Wire axle shafts to underbody.
7. Remove retainers holding wiring harness to driveline support and position out of way. Slowly lower driveline about 2" (50 mm) until electrical connectors can be accessed. Disconnect VSS electrical connector. Disconnect wiring harness retainers from differential rear cover and top of differential.
8. Disconnect back-up light, reverse lockout solenoid, gear select solenoid and transmission fluid sensor electrical connectors from transaxle. Insert a putty knife between edge of shifter bracket on side of driveline support and brake hose retainer on driveline tunnel wall.
9. SLOWLY lower driveline while adjusting angle of tilt, and check relationship between top rear of differential and lowest part of luggage compartment floor. Differential should not be lowered past lowest point of luggage compartment floor.

10. Release wiring harness retainer along top of transmission. Ensure harness is free of driveline. Place a block of wood under engine oil pan and support engine with jack. Remove 5 driveline support-to-flywheel housing bolts.
11. Carefully bend wiring harness bracket away from driveline to allow clear path for driveline removal.

**NOTE: The following steps require the help of an assistant.**

12. Have an assistant insert a flat-bladed tool between edge of driveline support and flywheel housing. Gently pry driveline loose from engine. With assistant guiding front of driveline, slowly lower driveline, while watching angle of tilt, until propeller shaft at front of driveline just clears flywheel housing.
13. Slowly lower driveline completely out of vehicle. Position chain hoist around transmission while protecting exhaust hangars. Raise transmission with hoist to remove tension on transmission jack. Remove Transmission Support Fixture from jack.
14. Place transmission/driveline assembly on work bench with hoist still attached. Ensure adequate support is placed around transmission assembly on work bench. Remove hoist from transmission.
15. Remove transmission-to-driveline bolts. Pry driveline assembly away from transmission. Slowly pull driveline assembly away from transmission while guiding shift rod through opening in driveline support.
16. Using punch, remove roll pin from shift rod and remove shift rod. Remove differential-to-transmission bolts and nuts. Slide differential from transmission.
17. To install, reverse removal procedure while noting the following:
  - Have an assistant available to help support and guide transmission/driveline assembly back into place.
  - Carefully maintain proper driveline angle when reinserting assembly into vehicle.
  - Use only hand tools when installing NEW rear crossmember nuts.
  - Tighten all bolts and nuts to specification. See **TORQUE SPECIFICATIONS**.

## TORQUE SPECIFICATIONS

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Application	Ft. Lbs. (N.m)
Differential-To-Transmission Bolts/Nuts	37 (50)
Driveline Support-To-Transmission Bolts/Nuts	37 (50)
Driveline Support-To-Flywheel Housing Bolts	37 (50)
Rear Crossmember Mounting Bolts	81 (110)
Rear Shock Absorber Bolts	162 (220)
Transaxle Mount Bracket-To-Differential Bolts	37 (50)
Transaxle Mount-To-Rear Crossmember Nuts	37 (50)