

TRANSMISSION REMOVAL & INSTALLATION - A/T

1993 Jeep Cherokee

1993 TRANSMISSION SERVICING
Chrysler Corp. Transmission Removal & Installation
Jeep; Cherokee, Grand Cherokee, Grand Wagoneer, Wrangler

MANUAL TRANSMISSION

NOTE: For manual transmission replacement procedures, see appropriate article in CLUTCHES.

AUTOMATIC TRANSMISSION

REMOVAL & INSTALLATION - EXCEPT WRANGLER

Removal

- 1) Raise vehicle. Drain fluid and remove upper half of transmission fill tube.
- 2) Disconnect cooler lines at transmission. Press fitting release tabs and pull cooler line and fitting out of case. Plug all openings to prevent fluid loss and contamination. Support engine with safety stand.
- 3) Support transmission/transfer case assembly with jack. Disconnect or remove following: transmission and transfer case shift linkage; necessary exhaust components; speedometer cable; transmission wiring harnesses; transfer case vacuum and wiring harnesses.
- 4) Mark drive shafts for reassembly. Disconnect drive shafts at transfer case and wire to frame rails. DO NOT allow drive shafts to hang free as damage to universal joints may result. Remove rear crossmember. Disconnect necessary vacuum and fluid hoses and transmission throttle cable at engine.
- 5) Remove crankshaft position sensor. Remove starter. Remove converter-to-drive plate and converter housing-to-engine bolts.
- 6) Secure transmission (and transfer case assembly on 4WD models) to transmission jack with safety chains. Remove transmission/transfer case assembly.

NOTE: Remove transfer case from transmission if transmission is to be overhauled.

Installation

- 1) To install, reverse removal procedure. On 4WD models, connect transfer case shift linkage and vacuum hoses. Install new "O" ring seal on upper half of transmission fill tube. Connect upper and lower tube halves.
- 2) Tighten all bolts to specification and fill transmission with MOPAR Mercon Type ATF fluid. See TORQUE SPECIFICATIONS TABLE at the end of this article.

REMOVAL & INSTALLATION - WRANGLER

Removal

- 1) Disconnect fan shroud and transmission fill tube upper bracket. Raise vehicle. Remove converter inspection cover and fill tube. Plug fill tube hole to prevent fluid loss and contamination. Remove starter.
- 2) Mark drive shafts for reassembly. Disconnect drive shafts at transfer case and wire to frame rails. DO NOT allow drive shafts to hang free as damage to universal joints may result. Disconnect exhaust

pipes from exhaust manifolds, if necessary. Drain transfer case lubricant. Disconnect speedometer cable from transmission.

3) Disconnect all shift and throttle linkages and wiring from transmission and transfer case. Mark converter drive plate and converter for reassembly. Remove torque converter-to-drive plate bolts. Rotate crankshaft to gain access to bolts.

4) Support transmission/transfer case assembly with jack and secure with chain. Remove bolts and rear transmission crossmember. Lower transmission enough to disconnect cooler lines at transmission. Remove transmission-to-engine retaining bolts. Slowly slide transmission assembly from engine.

5) Hold converter in position while lowering transmission assembly from vehicle. Separate transmission from transfer case.

Installation

To install, reverse removal procedure. DO NOT tighten exhaust pipe attaching bolts until crossmember has been installed and transmission jack has been removed. Ensure all index marks made at removal are aligned. Tighten all bolts to specification and fill transmission and transfer case with fluid.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

Application	Ft. Lbs. (N.m)
Except Wrangler	
Converter Housing Bolts	
10 mm	25 (34)
12 mm	42 (57)
Dust Cover Bolts	13-17 (18-23)
Filler Tube Bracket Bolt	37-47 (50-64)
Torque Converter-To-Drive Plate Bolts	22 (30)
Transfer Case-To-Transmission Bolts	22-30 (30-41)
Transmission-To-Engine Bolts	37-47 (50-64)
Transmission-To-Rear Mount Bolts	44-66 (60-89)
Wrangler	
Cooler Line Nut	13 (18)
Drive Plate-To-Converter Bolts	22 (30)
Drive Plate-To-Crankshaft Bolts	55 (75)
Filler Tube Bracket Bolt	24 (33)
Transfer Case-To-Transmission Bolts	22-30 (30-41)
Transmission-To-Engine Bolts	30 (41)