TRANSMISSION REMOVAL & INSTALLATION - A/T

1994 Toyota Celica

1994 TRANSMISSION SERVICING
Toyota Automatic Transmission Removal & Installation

Celica

AUTOMATIC

WARNING: On models equipped with a Supplemental Restraint System (SRS), SRS must be disabled before repairs are started. Turn ignition switch to LOCK position and disconnect negative battery cable and wait at least 90 seconds. Back-up power supply maintains SRS activation voltage for about 90 seconds after battery is disconnected. See AIR BAG RESTRAINT SYSTEM under ACCESSORIES & EQUIPMENT.

Removal (Celica A140E)

1) Disconnect negative battery cable and remove battery. Wait at least 90 seconds before starting work to prevent air bag deployment. Disconnect throttle cable. Remove cruise control actuator (if equipped). Disconnect airflow meter connector and remove air cleaner assembly. Remove ground strap.

2) Remove engine upper left mounting bolt. Remove starter. Disconnect vehicle speed sensor, park/neutral position switch and both solenoid connectors. Remove 3 transaxle mounting bolts. Disconnect transaxle fluid cooling hoses. Install engine support and raise vehicle. Remove engine undercovers and drain transaxle fluid.

3) Remove front wheels. Remove drive axle lock nut. Disconnect stabilizer bar links from lower arms. Disconnect tie rod ends and ball joints from steering knuckle. Remove left side drive shaft. Remove 2 center bearing bracket bolts and remove right side drive shaft and center bearing case.

4) Support transaxle with jack. Disconnect shift control cable. Remove rear engine mounting bolt. Remove front exhaust pipe. Disconnect intermediate steering shaft at rack. Disconnect power steering lines at rack. Remove 2 shift cable mounting bolts. Disconnect air conditioner line bracket.

5) Remove 3 grommets from subframe crossmember and lower center member. Remove 13 bolts and 2 nuts and remove lower center member and subframe crossmember with steering rack attached. Remove No. 1 manifold support and transaxle support plate. Remove 6 torque converter bolts. Remove 3 transaxle bolts and using jack, remove transaxle.

Installation

1) Check torque converter fluid level. Measure distance from torque converter drive lug to engine mating surface of transaxle. Distance should be at least .90" (22.8 mm). See Fig. 1.

2) Reverse removal procedure to complete installation of transaxle. Tighten bolts and nuts to specification. Subframe crossmember and lower center member bolts and nuts have different tightening specifications. See Fig. 2. See TORQUE SPECIFICATIONS.

3) Fill transaxle to proper capacity. Check and adjust throttle cable and control cable.

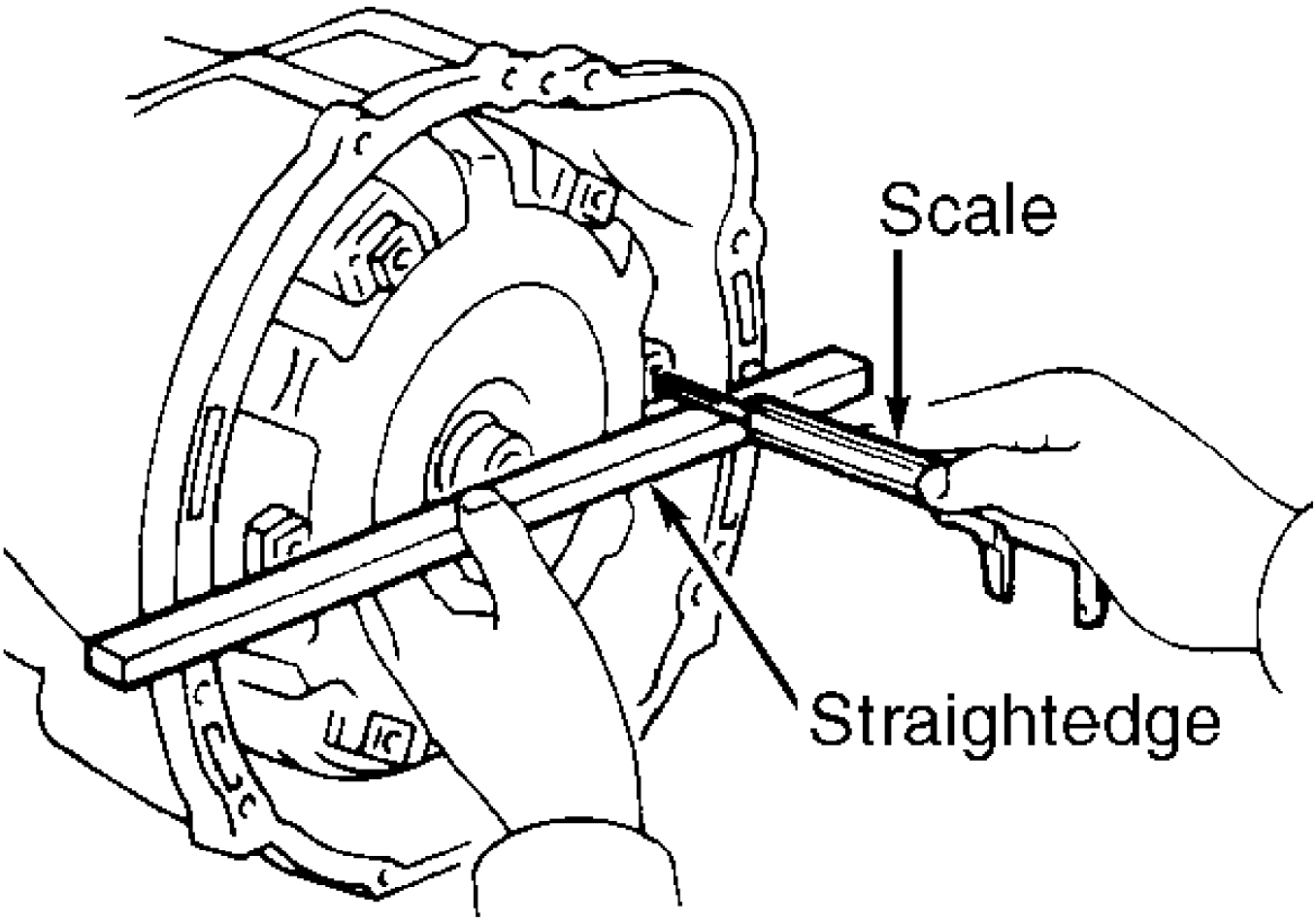

Fig. 1: Measuring Torque Converter Depth (Typical)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

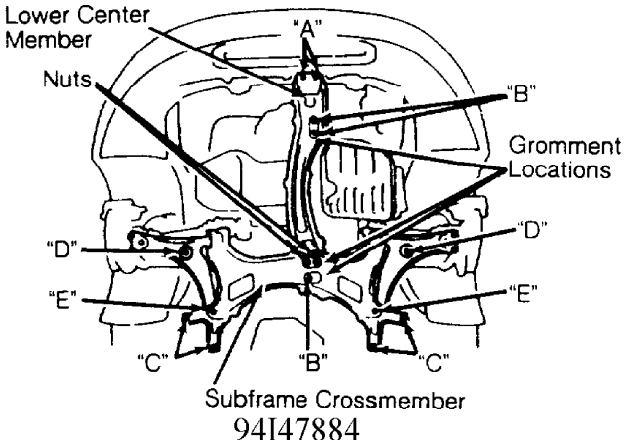

Fig. 2: Locating Suspension Members Mounting Bolts & Nuts (Celica - A140E Shown; Celica - A246E Is Similar)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

Removal (Celica A246E)

1) Disconnect negative battery cable. Wait at least 90 seconds before starting work to prevent air bag deployment. Remove dipstick. Disconnect throttle cable. Remove air cleaner assembly. Remove battery. Remove left engine upper mounting bolt. Disconnect throttle cable mounting bolt. Disconnect ground strap. Disconnect harness clamp mounting bolt from transaxle.

2) Remove starter upper mounting bolt and 2 transaxle mounting bolts. Remove filler tube. Disconnect transaxle fluid cooler hoses. Disconnect intermediate steering shaft at rack. Disconnect power steering lines at steering rack.

3) Install engine support and raise vehicle. Remove engine undercovers and drain transaxle fluid. Remove drive axle lock nut. Disconnect stabilizer bar links from lower arms. Disconnect tie rod ends and ball joints from steering knuckle. Remove drive axles. Support transaxle using a jack. Remove engine rear mounting bolt. Remove front exhaust pipe supports from suspension crossmembers. Remove front exhaust pipe.

4) Disconnect air conditioning pipe from crossmember. Disconnect power steering lines bracket. Remove lower suspension crossmember. Remove starter. Disconnect vehicle speed sensor connector and shift control cable. Disconnect solenoid and park/neutral position switch connectors.

5) Remove torque converter cover and remove 6 torque converter-to-drive plate bolts. Remove 2 lower left engine mounting bolts. Remove 5 transaxle-to-engine mounting bolts. Using jack, remove transaxle.

Installation

1) Check torque converter fluid level. Measure distance from torque converter drive lug to engine mating surface of transaxle. Distance should be at least .90" (22.8 mm). See Fig. 1.

2) Reverse removal procedure to complete installation of transaxle. Tighten bolts and nuts to specification. Subframe crossmember bolts and nuts have different tightening specifications. See Fig. 2. See TORQUE SPECIFICATIONS.

3) Fill transaxle to proper capacity. Check and adjust throttle cable and control cable.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

Application	Ft. Lbs. (N.m)
Drain Plug	25 (34)
Drive Shaft Bolts	
Center Bearing Support	36 (49)
Transaxle Side	41 (56)
Differential Side	58 (79)
Engine Side Mounting Bolts	
Left Lower	38 (52)
Left Upper	47 (64)
Front Exhaust Pipe	46 (62)
Intermediate Steering Shaft Pinch Bolt	26 (35)
Rear Exhaust Pipe	31 (42)
Rear Engine Mount	64 (87)
Oil Cooler Tubes	25 (34)
Starter Bolt	29 (39)
Suspension Members (1)	
"A" Bolt	26 (35)
"B" Bolt	59 (80)
"C" Bolt	130 (176)

"D" Bolt	94 (127)
"E" Bolt	123 (167)
Nut	59 (80)
Torque Converter Clutch Bolts	25 (33)
Transaxle Support Plate	
12 mm Bolts	17 (23)
14 mm Bolts	34 (46)
Transaxle-To-Engine Bolts	
14-mm	27 (37)
17-mm	53 (72)

(1) - See Fig. 2.