

TOYOTA TERCEL

DESCRIPTION

Clutch is single dry disc using diaphragm spring type pressure plate. Actuation is mechanical, using an adjustable cable connected to clutch pedal and release fork. A permanently lubricated release bearing is used.

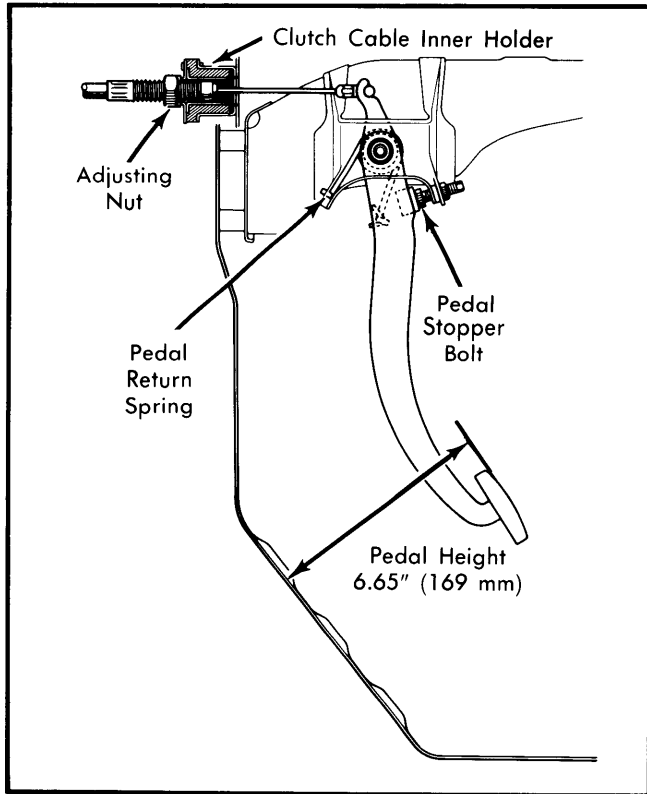


Fig. 1 Pedal Height and Free Play Adjustment

REMOVAL & INSTALLATION

CLUTCH ASSEMBLY

NOTE — Engine must be removed to replace clutch assembly.

Removal — 1) Remove engine hood, air cleaner case and battery negative terminal. Drain cooling system and wrap drive shaft boots with shop towels. Disconnect solenoid valve, water temperature switch and electric cooling fan connectors. Remove differential side plate stiffener bolts and exhaust pipe.

2) Remove radiator and windshield washer tank. Disconnect heater, fuel and brake booster hoses. Disconnect accelerator, choke and clutch release cables. Disconnect high tension wire from coil, alternator "B" terminal and connector from alternator and starter cable at starter.

3) Ensure that no bonding wires are connected from engine to chassis and disconnect engine mounts and engine shock absorber at lower right front of engine. Attach engine hoisting sling to engine and support differential with a jack. Remove engine to transaxle mounting bolts.

4) Remove engine from transaxle and support clutch housing with a cable slung from a bar at rear of engine compartment. Loosen pressure plate bolts one turn at a time until spring pressure is released, then remove pressure plate and disc.

Installation — Use aligning tool and assemble disc and pressure plate to flywheel. Finger tighten mounting bolts initially, then tighten bolts in a triangular pattern, one turn at a time to final torque of 11-15 ft. lbs. (15-20 N·m). Reverse removal procedure to complete installation.

CLUTCH CABLE

Removal & Installation — Detach cable at clutch pedal end by backing off pedal stop and removing clevis. Remove cable from release fork and free from engine compartment. To install, lubricate clevis attachment points with multipurpose grease and reverse removal procedure. Adjust pedal stop.

CLUTCH RELEASE BEARING

Removal & Installation — With engine removed from vehicle, remove retaining clips from bearing collar and clutch fork. Slide assembly from transmission. If bearing does not rotate smoothly, press off collar with driver (09315-00010). Use press and driver (09315-00021) to install new bearing on sleeve. Lightly grease inner groove of bearing collar and all contact surfaces and reverse removal procedures.

PILOT BEARING

Removal & Installation — If pilot bearing is worn or damaged, pull from crankshaft with puller (09303-35010). Coat new bearing with multipurpose grease and drive into crankshaft with installer (090304-12012).

ADJUSTMENTS

PEDAL HEIGHT

Measure distance from floor panel to upper surface of clutch pedal. Adjust pedal stopper bolt to give 6.65" (169 mm) pedal height.

CLUTCH PEDAL FREE PLAY

With release bearing contacting pressure plate, pedal play should be .08-1.10" (2-28 mm). To adjust, pull slightly on release cable and turn adjusting nut. Ensure that adjusting nut protrusion and cable holder inner notch are aligned, then depress pedal several times and recheck pedal play.