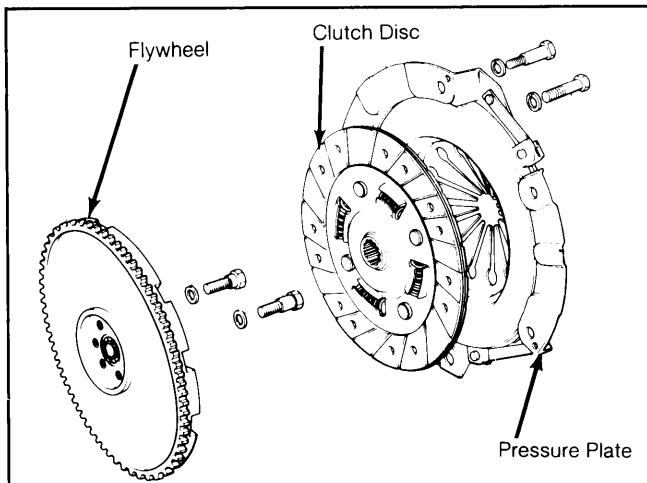


MAZDA — GLC

DESCRIPTION

Clutch is a dry, single disc, diaphragm spring type. Release mechanism is cable actuated. A prelubricated clutch release bearing is used and is located in the transmission housing.

Fig. 1: Exploded View of Clutch Assembly



REMOVAL & INSTALLATION

CLUTCH ASSEMBLY

Removal (FWD)

1) Disconnect negative battery cable. Disconnect speedometer cable. Remove the 2 clutch cable brackets and disconnect cable from release lever. Remove water pipe bracket and harness clips. Raise and support front of vehicle. Drain transaxle fluid.

2) Remove wheels. Remove under and side covers. Remove lower arm ball joint. Ensure driveshaft ball joint is not bent to maximum extent. Pull shaft straight out of transaxle by pulling on caliper. Take care not to damage oil seal.

3) Support the weight of the engine at the transaxle end. Separate shift control rod and shift rod. Remove extension bar from transaxle. Remove cross-member. Separate left front mounting rubber and trans-case.

4) Remove starter motor. Support transaxle with a jack. Remove transaxle mounting bolts and remove transaxle. Loosen pressure plate bolts gradually and in a star pattern. Remove pressure plate and clutch disc.

Removal (RWD)

1) Disconnect battery ground cable. Place gearshift lever in neutral and remove lever and hardware. Raise and support vehicle and drain transmission.

2) Disconnect and remove propeller shaft. Disconnect speedometer cable, back-up light and exhaust pipe hanger on clutch housing.

3) Remove exhaust pipe support bracket from clutch housing. Disconnect clutch cable from release lever. Remove starter and clutch housing splash guard.

4) Disconnect exhaust pipe hanger from extension housing. Place jack under rear of engine, protecting oil pan with a block of wood.

5) Disconnect transmission support member. Remove engine-to-transmission attaching bolts and care-

fully slide transmission back until it can be lowered from the vehicle.

6) Install flywheel holding tool and loosen pressure plate mounting bolts evenly until assembly can be removed. Separate clutch disc and pressure plate.

Inspection

1) The minimum height of disc friction material above rivet heads is .012" (.30 mm). Check disc for loose rivets, worn torsion springs or oil contamination.

2) Inspect flywheel face for burns, scoring or rivet grooves. Flywheel may be refaced if necessary.

3) Mount disc on input shaft and check for runout. Maximum runout is .039" (1.0 mm). Check disc hub and input shaft splines for excessive wear.

Installation (All Models)

1) Lightly lubricate input shaft splines. Use clutch aligning tool to center clutch assembly. Pressure plate and flywheel alignment marks must be aligned when assembling.

2) Torque pressure plate bolts gradually in a crisscross pattern. To complete installation, reverse removal procedure.

CLUTCH RELEASE BEARING & FORK

Removal & Installation (FWD)

1) Disconnect return spring from fork. Twist the release lever and separate it from fork. Remove release bearing. Remove bolt holding release lever and fork together.

2) Pull release lever and remove return spring, key and release fork. To install, apply grease to contact areas and reverse removal procedure.

NOTE:

On FWD models, release bearing and collar are constructed as a single unit. On both models, bearing is prelubricated and should not be washed in any cleaning solution or solvent.

Removal & Installation (RWD)

Loosen and remove bolt attaching release shaft to transmission. Slide bearing off bearing cover. Remove shaft from clutch housing. To install, coat all contact surfaces with grease and reverse removal procedures.

CLUTCH CABLE

Removal & Installation (FWD)

1) Remove lock nuts, adjusting nut, plain washer, damper and roller from release lever. See Fig. 4. Pull cable out of bracket. Remove cover from inner panel. Disconnect cable from pedal assembly.

2) Disconnect clip and remove cable from the master cylinder bracket. To install, reverse removal procedure. Grease bushings, pedal hook and roller. Seal boot to firewall and adjust pedal free play.

Removal & Installation (RWD)

1) Loosen cable lock nut and adjustment nut. Pull cable through toward clutch pedal and disconnect from pedal. Push cable through stop ring in engine compartment and disconnect from cable at clutch lever.

2) Remove retainer ring at bracket, separate cable housing at bracket and remove cable. To install, reverse removal procedure.

Clutches

MAZDA — GLC (Cont.)

Fig. 2: Exploded View of Clutch Cable

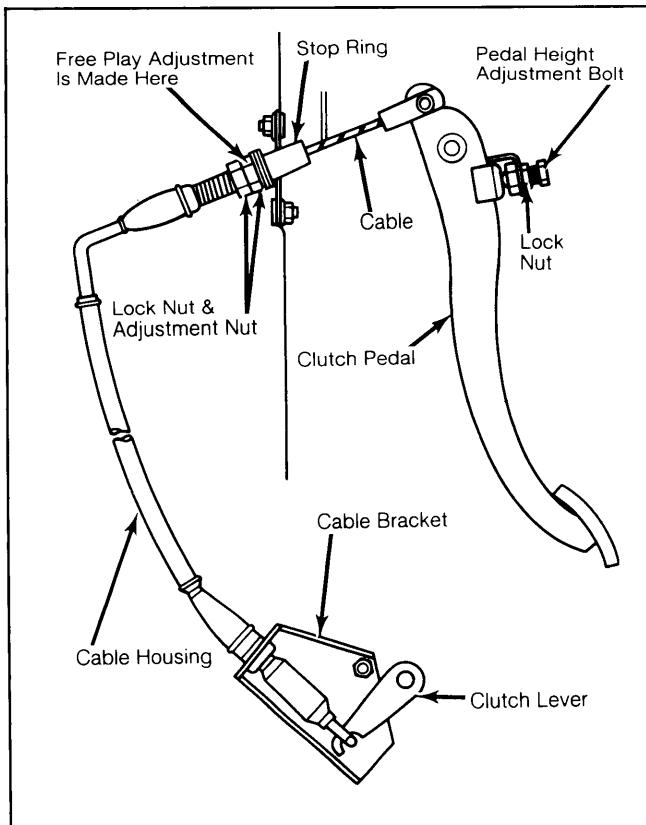


Figure applies to RWD models.

PILOT BEARING

Removal & Installation

Pilot bearing is pressed into flywheel. If it is loose or rough, bearing should be replaced. Remove using puller. Lubricate bearing and install using driver.

CLUTCH PEDAL HEIGHT

Pedal Height (FWD)

Remove cover under dashboard. Adjust pedal height to 9.05-9.25" (230-235 mm) by loosening lock nut and rotating clutch switch until correct height is obtained. Tighten lock nut and install cover. See Fig. 3.

Pedal Height (RWD)

Adjust pedal height to 7.5-7.7" (190-195 mm) by loosening lock nut and rotating adjusting bolt until correct height is obtained. Tighten lock nut. See Fig. 3.

CLUTCH PEDAL FREE PLAY

Free Play (FWD)

Free play should be .08-.12" (2-3 mm) and is set at release lever. Depress release lever and pull roller while measuring gap. Turn adjusting nut to obtain clearance. Tighten lock nut. See Fig. 4.

Free Play (RWD)

1) Clutch pedal free play should be .39-.59" (10-15 mm) and is adjusted by setting release cable clearance at engine compartment side of firewall.

Fig. 3: Adjusting Pedal Height

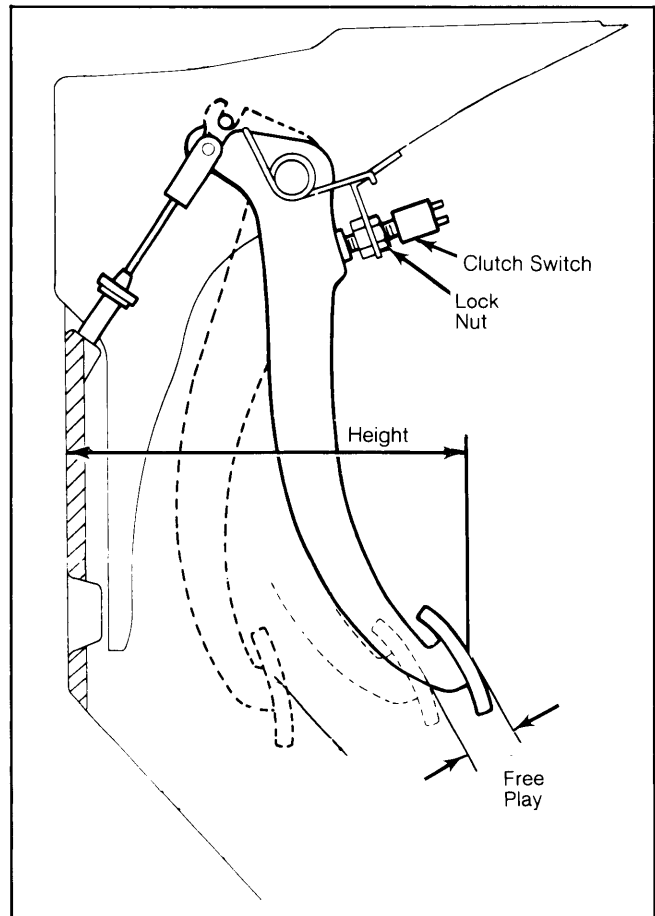


Illustration is of FWD model, but RWD model is measured in the same manner.

2) Loosen lock nut, pull outer cable and turn adjusting nut until clearance is .06-.09" (1.5-2.3 mm). Tighten lock nut and check pedal free play. See Fig. 2.

Fig. 4: Exploded View of Release Lever and Cable

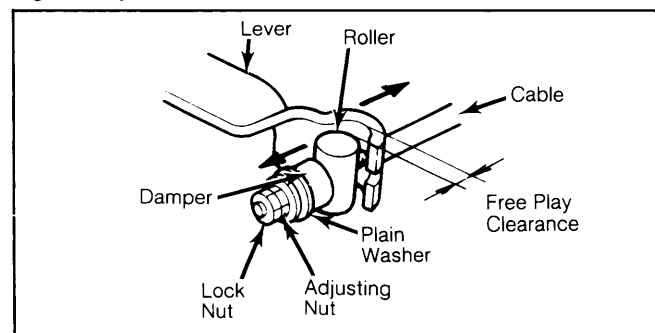


Illustration applies to FWD models

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Flywheel-to-Crankshaft	60-65 (82-88)
Pressure Plate-to-Flywheel	13-20 (18-27)