

MAZDA GLC

DESCRIPTION

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

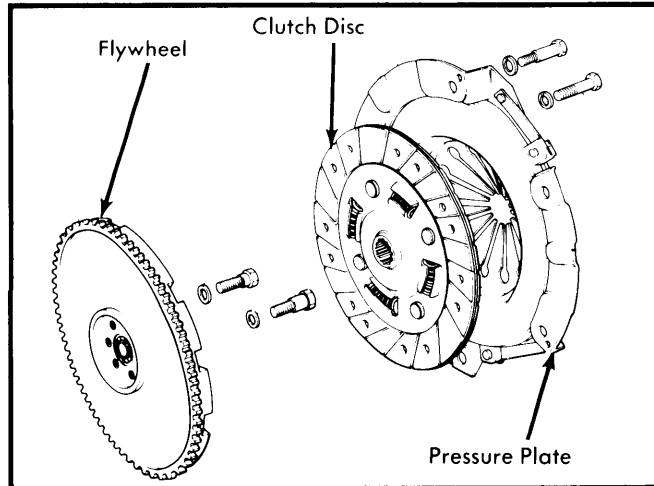


Fig. 1 Exploded View of Clutch Assembly

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 and pull shaft straight out of transaxle by pulling caliper toward operator. Take care not to damage oil seal.

3) Set engine support (49 E301 025) on the engine hanger and lift engine. Separate shift control rod and shift rod. Remove extension bar from transaxle. Remove crossmember. Separate left front mounting rubber and transcase.

4) Remove starter motor. Support transaxle with a jack. Remove transaxle mounting bolts and remove transaxle. Install disc centering tool (49 E301 310) and flywheel holding tool. Remove bolts from pressure plate evenly and alternately. Separate 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. Disconnect and remove propeller shaft. Disconnect speedometer cable, back-up light and exhaust pipe hanger on clutch housing.

2) Remove exhaust pipe support bracket from clutch housing and disconnect clutch cable from release lever. Remove clutch housing splash guard. Remove starter. Disconnect exhaust pipe hanger from extension housing. Place jack under rear of engine, protecting oil pan with a block of wood.

3) Disconnect transmission support member. Remove engine-to-transmission attaching bolts and carefully slide transmission

back until it can be lowered from the vehicle. Install flywheel holding tool and loosen pressure plate mounting bolts evenly until assembly can be removed. Separate clutch disc and pressure plate.

Installation (All Models) – Lightly lubricate input shaft splines. Use clutch aligning tool to center clutch assembly. Clutch cover and flywheel alignment marks must be aligned when assembling. Tighten pressure plate bolts. To complete installation, reverse removal procedure.

CLUTCH RELEASE BEARING & FORK

Removal & Installation (FWD) – Disconnect return spring from fork. Twist the release lever and separate from fork. Remove release bearing. Remove bolt holding release lever and fork together. Pull release lever and remove return spring, key and release fork. To install, apply grease to contact areas and reverse removal procedure.

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.

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.

CLUTCH CABLE

Removal & Installation (FWD) – Remove lock nut, adjusting nut, plain washer, damper and roller from release lever. See Fig. 4. Pull cable out of bracket. Remove cover from inner

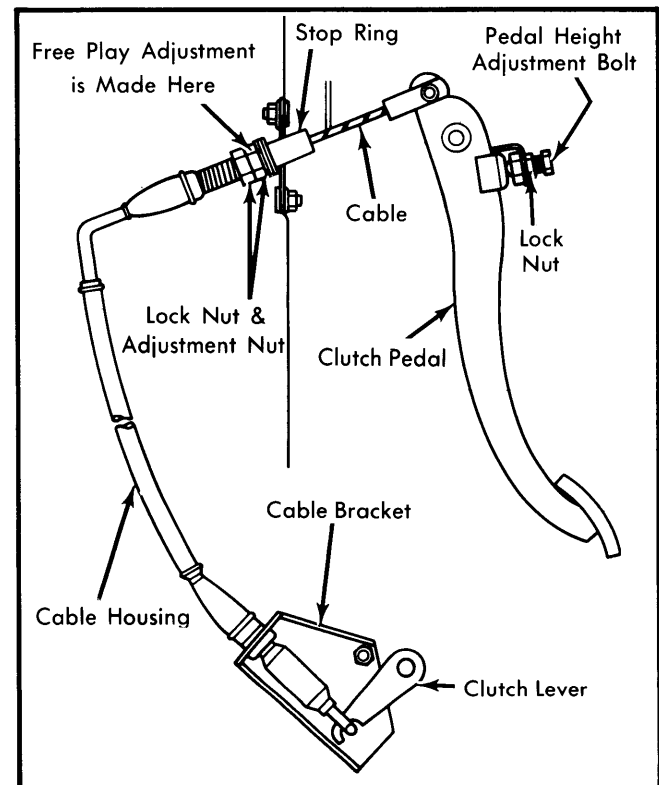


Fig. 2 Installed View of Clutch Cable (RWD Models) with Adjustment Locations

MAZDA GLC (Cont.)

panel. Disconnect cable from pedal assembly. Disconnect cable from release lever and remove cable. To install, reverse removal procedure. Grease bushings, pedal hook and roller. Seal boot to firewall and adjust pedal play.

Removal & Installation (RWD) – 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. Remove retainer ring at bracket, separate cable housing at bracket and remove cable. To install, reverse removal procedure.

PILOT BEARING

Removal & Installation (All Models) – Pilot bearing is pressed into flywheel. Remove using puller. To install, lubricate bearing and install using driver.

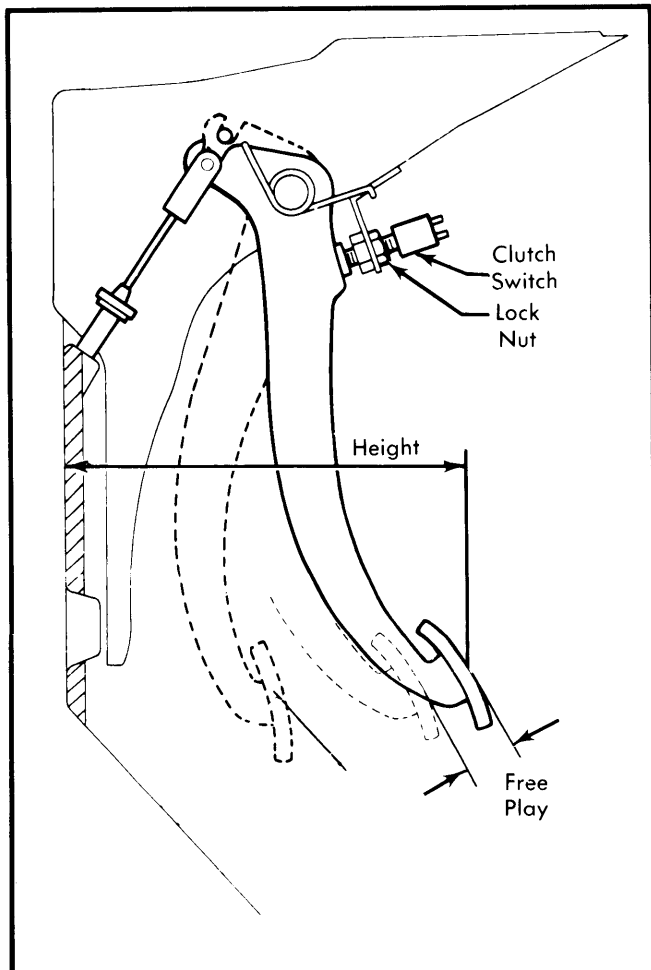


Fig. 3 Clutch Pedal Adjustment (FWD Models)

ADJUSTMENTS

CLUTCH PEDAL HEIGHT & FREE PLAY

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. 2.

Free Play (FWD) – Free play should be .43-.67" (11-17 mm) and is set at release lever. Turn adjusting nut until gap is as specified when release lever is depressed and roller is pulled as shown in Fig. 4. Tighten lock nut.

Free Play (RWD) – 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. 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.

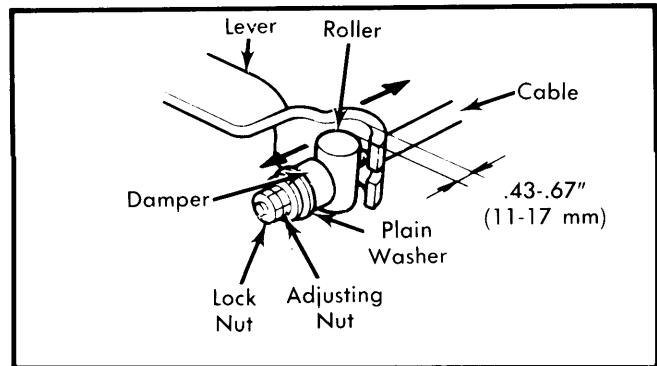


Fig. 4 Detail of Release Lever and Cable (FWD Models)

TIGHTENING SPECIFICATIONS

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