

## ISUZU I-MARK

### DESCRIPTION

The clutch assembly is a single plate, dry disc type, using a diaphragm spring to engage pressure plate. Clutch has a mechanical release system consisting of clutch pedal, cable, yoke and release bearing.

### REMOVAL & INSTALLATION

#### CLUTCH

**Removal — 1)** Disconnect battery ground cable. Remove shift lever assembly. Loosen clutch cable adjusting nuts at left side of engine compartment. Remove upper starter mounting nuts at left side of engine compartment. Remove upper starter mounting nut and starter wiring. Raise and support vehicle front and rear.

**2)** Remove propeller shaft. Disconnect speedometer cable. Remove clutch cable. Remove starter lower bolt and remove starter. Disconnect exhaust pipe from manifold and remove exhaust pipe bracket. Remove flywheel inspection cover.

**3)** Remove rear transmission support mounting bolt. Support transmission under case and remove rear transmission support from frame. Lower transmission and position about 4" (100 mm) lower than when mounted. Disconnect back-up light. Disconnect coasting cut fuel switch (gasoline models only).

**4)** Remove transmission housing to engine block bolts. Move transmission straight back and lower away from vehicle. Index mark clutch assembly to flywheel for reassembly reference. Install aligning tool (J-24547 or equivalent) and remove retaining bolts evenly in a criss-cross pattern.

**Installation —** Using aligning tool (J-24547 or equivalent) install clutch assembly in original position and tighten bolts evenly in a criss-cross pattern. To complete installation, reverse removal procedure noting the following: Lubricate drive gear shaft with a slight coat of grease before installing. Readjust clutch pedal free travel as outlined in this story.

#### RELEASE BEARING

**Removal —** With clutch assembly removed, remove release bearing to yoke retaining springs and remove release bearing with support. Remove release yoke from transmission ball stud.

**Installation —** Lubricate ball stud and install release yoke. Lubricate support and install release bearing and support to release yoke with retaining springs. Install clutch assembly.

#### CLUTCH CABLE

**Removal —** Loosen clutch lock and adjusting nuts. Raise vehicle and remove return spring from release yoke. Remove clutch cable from release yoke and slide it through retaining bracket. Disconnect cable from clutch pedal and remove.

**Installation —** Slide cable through firewall and install clutch pedal. Install cable in original position through retaining bracket to release yoke. Install clutch return spring. Adjust clutch cable and tighten lock nut. See Adjustments in this Article.

#### PILOT BEARING

**Removal —** With clutch assembly removed, remove pilot bearing from crankshaft using puller (J-23907 or equivalent).

**Installation —** Install the pilot bearing in crankshaft using driver (J-26516 or equivalent) so that it is fitted against the bottom face of the bearing fitting hole. Install the remaining parts by reversing the removal procedure.

### ADJUSTMENTS

#### CLUTCH PEDAL HEIGHT

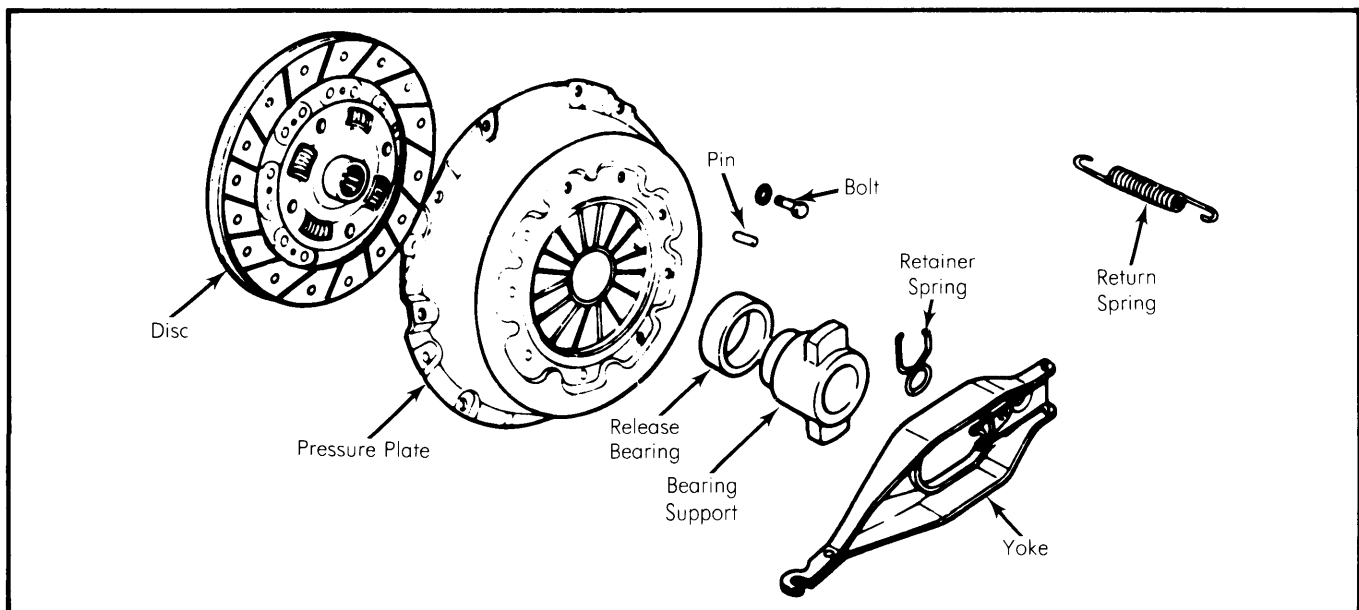
Adjust setting of clutch switch so that pedal height from floor is approximately 6.2" (157.5 mm). Lock switch in position with lock nut.

#### CLUTCH PEDAL FREE TRAVEL

Loosen lock and adjusting nuts on clutch cable. Pull cable forward toward front of vehicle to take up slack. Turn adjusting nut inward until pedal free travel is approximately  $\frac{5}{8}$ " (16 mm). Tighten lock nut.

### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N•m)
Pressure Plate-to-Flywheel .....	14 (19)
Release Yoke Ball Stud .....	29 (39)



**Fig. 1 Exploded View of Clutch Assembly**