

PANTERA

Pantera

CHANGES, CAUTIONS, CORRECTIONS

► **CLUTCH ASSEMBLY CHANGE** — For improved efficiency to clutch operation, a new Borg and Beck clutch assembly has been installed. All models with ZF transaxle identification code 1031-002-001 may use the new assembly. The identification number is stamped on a plate attached to shift linkage housing cover.

DESCRIPTION

Clutch is dry single disc type. Main components of clutch assembly are: Pressure plate, clutch disc, and release mechanism mounted in clutch housing. Clutch actuation is hydraulic, using a master cylinder mounted in front luggage compartment and a slave cylinder mounted on a bracket connected to clutch housing.

REMOVAL & INSTALLATION

CLUTCH ASSEMBLY

Removal — 1) Install a protective cover on fenders and remove luggage compartment floor. Raise vehicle on a hoist. Disconnect starter cable from starter and remove starter. Remove bolts attaching adapter plate to clutch housing, and bolt attaching parking brake cable to transaxle. Loosen front engine support attaching bolts, and lower vehicle.

2) Disconnect back-up switch wires from transaxle. Disconnect air conditioning condenser from rear panel and place out of way. Remove bolts attaching crossmember to chassis, disconnect transaxle vent line from crossmember, and remove crossmember. Disconnect retaining spring from slave cylinder and remove pin retaining slave cylinder push rod to release lever.

3) Remove bolts and spacer retaining slave cylinder housing to clutch housing and position cylinder housing out of way. **NOTE** — Do not disconnect hydraulic line from cylinder unless necessary. Disconnect transaxle linkage by loosening nut and bolt securing "U" joint to housing connector. Disconnect speedometer cable from transaxle.

4) Disconnect axle shafts from transaxle flanges and remove nuts and bolts retaining rear supports to chassis. Disconnect ground strap to transaxle. Position a floor jack under engine oil pan (as far back as possible) and raise engine. Connect a suitable sling to transaxle and raise enough to take weight off supports.

5) Disconnect rear supports from transaxle, remove bolts attaching clutch housing to engine, and slowly lift transaxle from vehicle. Remove bolts attaching pressure plate to flywheel, and remove pressure plate and clutch disc from flywheel as an assembly.

Installation — To install, reverse removal procedure and note the following: Use a suitable aligning tool to center clutch disc on flywheel. Be sure to install shims removed under transaxle supports. With transaxle installed, adjust clutch pedal free play and check operation of clutch assembly.

CLUTCH MASTER CYLINDER

Removal — Working under the front hood, cover fenders and siphon fluid out of master cylinder reservoir. Disconnect and cap hydraulic line. Remove cylinder attaching nuts and remove cylinder.

Installation — Position master cylinder to bulkhead and loosely install hydraulic line. Install master cylinder retaining nuts and tighten hydraulic line. Fill cylinder reservoir with fluid and bleed hydraulic system.

CLUTCH SLAVE CYLINDER

Removal — Raise deck lid and remove luggage compartment floor. Disconnect return spring from cylinder and remove pin retaining cylinder push rod to release lever. Disconnect hydraulic line from cylinder and cap line. Remove bolts and spacer retaining cylinder to clutch housing and remove slave cylinder.

Installation — To install, reverse removal procedure, adjust clutch pedal free play and bleed hydraulic system.

CLUTCH RELEASE BEARING

Removal — With transaxle assembly removed, remove release bearing and hub assembly from bearing fork. Remove release bearing from hub.

Installation — Position release bearing on hub and install using a suitable tool (T49P-7580A). Install release bearing and hub assembly on release fork and install transaxle assembly.

PILOT BUSHING

Removal — With transaxle and clutch assembly removed, remove pilot bushing using a suitable puller and adapter (T58L-101-A and T59L-100-B).

Installation — Coat pilot bushing bore in end of crankshaft with a small quantity of wheel bearing grease. Install pilot bushing using a suitable driver (7600-H). Install clutch assembly and transaxle.

ADJUSTMENT

CLUTCH FREE PLAY

Remove two snap rings and withdraw pin connecting slave cylinder push rod to release lever. Remove and adjust push rod length to 3.07-3.09" (see illustration). Install push rod and pin connecting it to release lever. **NOTE** — If release lever on cross shaft has been removed, this will establish position of lever on splined cross shaft. Loosen lock nut and adjust screw until a clearance of .102-.106" is obtained.

