

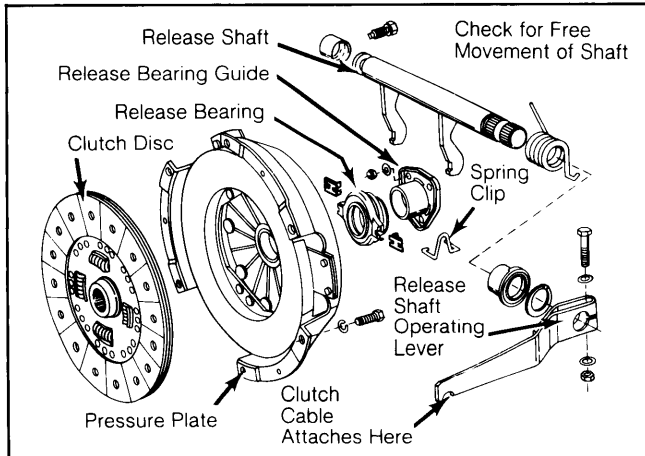
Clutches

VOLKSWAGEN QUANTUM

DESCRIPTION

Clutch is single plate dry disc type, using a diaphragm type pressure plate and a prelubricated clutch release bearing. Clutch is cable actuated.

Fig. 1: Exploded View of Clutch Assembly



REMOVAL & INSTALLATION

TRANSAXLE & CLUTCH ASSEMBLIES

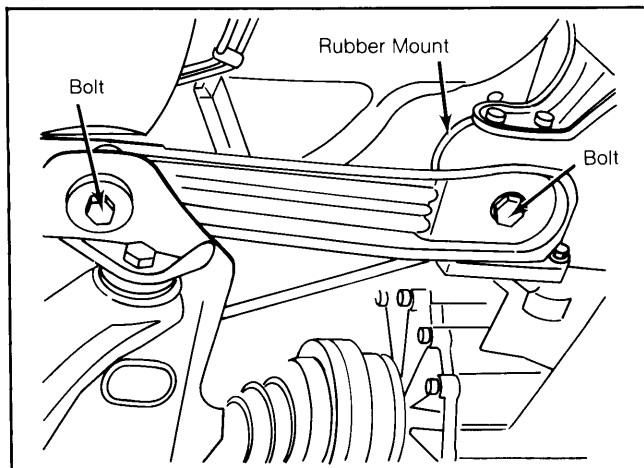
Removal

1) Disconnect battery ground. Remove upper engine-to-transaxle bolts. Detach speedometer cable. Unhook clutch cable. Disconnect exhaust pipe at manifold. Remove engine support bolts. Remove front muffler and exhaust pipe.

2) Remove drive shafts at transaxle. Disconnect back-up light wiring. Remove cover plate bolts. Remove starter bolt. Remove shift rod coupling bolt. Pry off shift rod coupling ball. Pull off shift rod coupling from shift rod.

3) Position transmission lift under transmission and lift up slightly. Loosen bolt "A" and remove bolt "B" from rear transaxle mount. Remove rubber mount. See Fig. 2. Remove 3 front transaxle support bolts. Remove lower engine-to-transaxle bolts.

Fig. 2: Transmission Support Assembly



Pivot support to the rear.

4) Pry transmission away from engine. Remove transaxle by lowering transmission support 2071 or US 618 with US 618/1. Lock flywheel to prevent rotation and index mark pressure plate and flywheel. Loosen pressure plate bolts 1/4 turn at a time, working in a diagonal pattern. Slide pressure plate off dowels on flywheel.

Installation

1) Using a clutch alignment tool, fit pressure plate with clutch. Make sure alignment marks are observed. Loosely attach assembly with 6 bolts.

2) Tighten pressure plate bolts in criss-cross pattern about 2 turns at a time. Position transaxle to engine. Make sure mainshaft splines are clean and lubricated lightly with Molybdenum DiSulphide grease.

3) Reverse removal procedure to install remaining components. Make sure all engine-to-transaxle mounts are aligned and free of tension before tightening bolts and nuts.

CLUTCH RELEASE BEARING

Removal

With transaxle removed, remove retaining clips and springs with release bearing. Slide bearing off bearing guide.

Installation

To install, lubricate metal guide sleeve with Molybdenum Disulphide paste. Coat pivoting points between bearing and operating shaft with multi-purpose grease. Position bearing to shaft and install retaining clips and springs.

NOTE: Bearing is pre-lubricated. DO NOT wash in solvent.

CLUTCH CABLE

Removal

Loosen cable adjusting nuts and free clutch cable housing from support bracket. Separate cable from clutch operating lever (mounted on side of clutch housing). Disconnect cable at pedal and force cable and housing into passenger compartment and remove.

Installation

To install new cable, reverse removal procedure and adjust pedal free play.

NOTE: If new clutch cable has been installed, make sure to recheck clutch pedal free play after 300 miles.

ADJUSTMENT

CLUTCH PEDAL FREE PLAY

Clutch pedal free play (measured at pedal pad) should be 9/16" (15 mm). Adjust free play at support bracket on transmission case by adjusting cable housing length with lock nuts on cable housing.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Clutch Assembly-to-Flywheel	18 (24)
Clutch Lever-to-Transmission	18 (24)
Drive Shaft-to-Transmission	33 (45)
Transmission-to-Engine	40 (54)