

CLUTCH

Article Text

1987 Volkswagen Quantum/Quantum Syncro

For Volkswagen Technical Site

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Sunday, March 19, 2000 01:03AM

ARTICLE BEGINNING

1987 Clutches

VOLKSWAGEN FOX & QUANTUM

DESCRIPTION

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

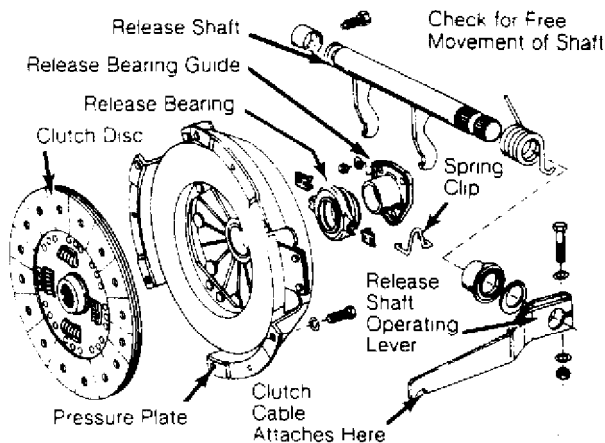


Fig. 1: Exploded View of Clutch Assembly
Courtesy of Volkswagen United States, Inc.

REMOVAL & INSTALLATION

CLUTCH ASSEMBLY

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 transaxle 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.

4) Pry transaxle away from engine. Remove transaxle by lowering transaxle 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.

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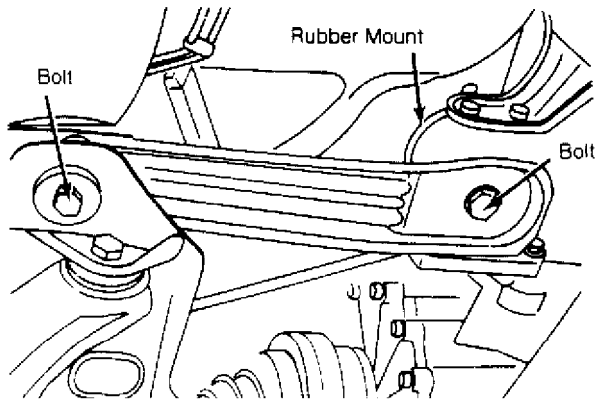


Fig. 2: Transaxle Support Assembly
Courtesy of Volkswagen United States, Inc.

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 a 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 from 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 multipurpose 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.

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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.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

Application		Ft. Lbs. (N.m)
Clutch Assembly-to-Flywheel Bolts	18 (24)
Drive Shaft-to-Transmission Bolts		
8 mm Bolts	33 (45)
10 mm Bolts	59 (80)
Transmission-to-Engine Bolts	40 (54)

END OF ARTICLE