

CLUTCH

Article Text

1991 Volkswagen Vanagon
For Volkswagen Technical Site
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Saturday, March 18, 2000 09:02PM

ARTICLE BEGINNING

1991 CLUTCHES
RWD

Vanagon

DESCRIPTION

The hydraulically operated clutch is a single disc, diaphragm spring type. Master cylinder is mounted on firewall and nonadjustable clutch release cylinder is mounted on clutch housing.

ADJUSTMENTS

System is automatically adjusted and requires no manual adjustment.

CLUTCH ASSEMBLY REMOVAL & INSTALLATION

REMOVAL

1) Disconnect negative battery cable. Remove upper engine-to-transaxle bolts. Remove accelerator cable bracket. Remove left drive shaft from transaxle and support with a wire.

2) Remove clutch release cylinder mounting bracket. Disconnect back-up light wires. Disconnect starter wires and remove starter. Remove right drive shaft from transaxle and support with a wire.

3) Using VW Engine Support (VW 785/1B), support engine. Remove shift rod support and shift linkage from transaxle. Using transmission jack, support transaxle. Disconnect ground strap. Remove front transaxle mount from body.

4) Loosen spindle of engine support and lower front part of transaxle until room exists for transaxle removal. Remove remaining engine-to-transaxle bolts. Pull transaxle from engine guide studs and remove.

5) Hold flywheel. Mark position of pressure plate on flywheel for reassembly reference. Loosen pressure plate-to-flywheel bolts evenly in a diagonal pattern and remove clutch assembly.

6) Pry off spring clip retainers from clutch release bearing and disengage spring clips. Remove clutch release bearing. See Fig. 1.

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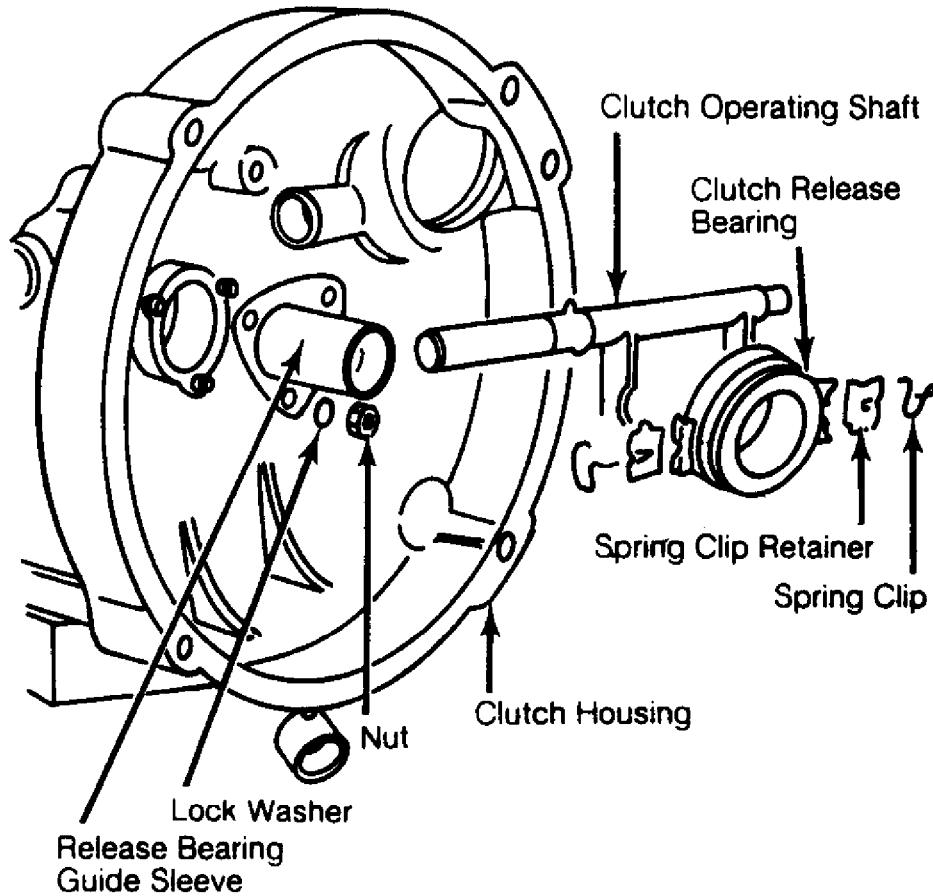


Fig. 1: Removing Clutch Release Bearing
Courtesy of Volkswagen United States, Inc.

INSTALLATION

1) Apply molybdenum disulfide grease to clutch operating shaft, pivot points and clutch release bearing. Secure clutch release bearing with spring clips and spring clip retainers. Clean splines of transaxle input shaft and lubricate lightly with molybdenum disulfide powder. Center clutch disc against flywheel.

NOTE: DO NOT clean clutch release bearing in solvent. Wipe clean with dry cloth.

2) Install pressure plate and tighten bolts evenly in a diagonal pattern.

NOTE: Rear mounting bolt must be installed in clutch release

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cylinder before attempting to install on clutch housing.

3) To complete installation, reverse removal procedure. Tighten bolts to specification. See TORQUE SPECIFICATIONS table at end of article.

CLUTCH MASTER CYLINDER REMOVAL & INSTALLATION

Disconnect master cylinder push rod at clutch pedal. Disconnect hydraulic line. Remove master cylinder from firewall. To install, reverse removal procedure and bleed hydraulic system.

CLUTCH RELEASE CYLINDER REMOVAL & INSTALLATION

REMOVAL

Disconnect hydraulic line from release cylinder. Remove push rod from clutch lever ball. Remove mounting bolts and remove cylinder.

INSTALLATION

Lightly grease clutch lever ball. Install clutch release cylinder. Attach hydraulic line and clutch lever. Bleed hydraulic system.

NOTE: Rear mounting bolt must be installed in clutch release cylinder before attempting to install on clutch housing.

OVERHAUL

NOTE: Manufacturer recommends replacement of faulty clutch master and release cylinders and does not provide overhaul procedures.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

AA		
Application		Ft. Lbs. (N.m)
Axle Shaft-To-Transaxle Bolt	33 (45)
Drain Plug	15 (20)
Engine-To-Transaxle Nut/Bolt	22 (30)
Flywheel-To-Crankshaft Bolt	80 (110)
Pressure Plate-To-Flywheel Bolt	18 (25)
AA		

END OF ARTICLE