

# TRANSMISSION REMOVAL & INSTALLATION - M/T

## Article Text

1993 Volkswagen EuroVan  
For Volkswagen Technical Site  
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Saturday, March 18, 2000 10:38PM

### ARTICLE BEGINNING

1993 TRANSMISSION SERVICING  
Volkswagen Manual Transmission Removal & Installation

Volkswagen; EuroVan

### REMOVAL & INSTALLATION

#### CLUTCH ASSEMBLY

##### Removal

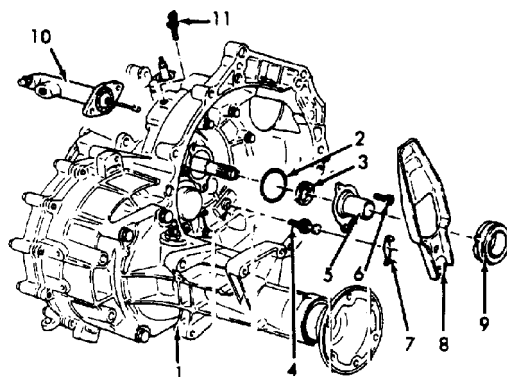
1) Obtain radio code. Disconnect negative battery cable. Remove radiator. Disconnect all wiring harness connectors from transaxle and starter. Remove shift linkage from transaxle.

2) Remove slave cylinder from transaxle. Disconnect speedometer. Remove all necessary brackets and cooling lines. Remove upper engine-to-transaxle mounting bolts. Remove brake booster and vacuum hose.

3) Measure protrusion of torsion bar adjusting nut. Release tension from torsion bar. Loosen drive shaft/wheel hub bolt. Remove wheel bearing housing. Disconnect shock absorber. Remove drive axle.

4) Remove starter and alternator. Disconnect transaxle carrier from bearing housing. Remove A/C compressor (if equipped). Disconnect front exhaust pipe. Using transaxle jack, support transaxle. Support engine and remove remaining engine-to-transaxle mounting bolts. Lower transaxle out of vehicle.

5) Using Flywheel Lock (3067) or similar device, hold engine from turning. Remove pressure plate bolts. Remove pressure plate and clutch disk. If flywheel needs repair or replacement, remove flywheel from engine.



- |                         |                      |
|-------------------------|----------------------|
| 1. Transaxle            | 6. Guide Sleeve Bolt |
| 2. Input Shaft "O" Ring | 7. Retaining Spring  |
| 3. Input Shaft Seal     | 8. Release Lever     |
| 4. Ball Stud            | 9. Release Bearing   |
| 5. Guide Sleeve         | 10. Slave Cylinder   |
|                         | 11. Assembly Pin     |

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

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#### Installation

1) Replace input shaft seal. See Fig. 1. Ensure friction disk slides on input shaft spines. Splines may be lightly greased. Wipe off excess grease. If flywheel was removed, reinstall on engine. Using flywheel lock or similar device, hold engine from turning. Tighten flywheel bolts to specification. See TORQUE SPECIFICATIONS table at end of article.

2) Mount friction disk and pressure plate on engine. Install pressure plate bolts finger tight. Using Clutch Centering Plug (3190), align friction disk and pilot bushing holes. Tighten pressure plate bolts to specification using a crisscross pattern.

3) To complete installation, reverse removal procedure. Plug transaxle openings to prevent contamination or fluid loss. Push clutch release lever rearward and temporarily install mounting pin or an 8 x 22 mm bolt through pivot arm. Remove pin or bolt after installation is complete. Tighten nuts and bolts to specification. See TORQUE SPECIFICATIONS table.

**END OF ARTICLE**