

TRANSMISSION REMOVAL & INSTALLATION - A/T

Article Text

1996 Volkswagen Golf
For Volkswagen Technical Site
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Thursday, August 19, 1999 11:27PM

ARTICLE BEGINNING

AUTOMATIC TRANSMISSION REMOVAL Volkswagen

Cabrio, Golf, Golf III, GTI VR6, Jetta, Jetta III, Passat

MODEL IDENTIFICATION

AUTOMATIC TRANSAXLE APPLICATIONS

Vehicle Year & Model Transaxle Model

1995

Cabrio, Golf III, GTI VR6

Jetta III & Passat 096

1996

Cabrio, Golf, Jetta & Passat 01M

AAAAA

REMOVAL & INSTALLATION

CABRIO, GOLF, GTI & JETTA

Removal & Installation

1) Obtain radio code. Disconnect negative battery cable. On models equipped with V6 engine, remove battery. On all models, disconnect speedometer cable from transaxle. Disconnect all harness connections at transaxle. Position harnesses aside.

2) On models equipped with V6 engine, remove multi-function Transaxle Range (TR) switch. On all models, move selector lever to Park position. Disconnect selector lever cable from lever/selector shaft. Remove selector lever cable anchor circlip and remove selector lever cable.

3) Using appropriate tool, clamp-off ATF cooler hoses. Disconnect hoses at ATF cooler. Support engine and transaxle assembly from top of vehicle with appropriate support fixture.

4) Remove starter. Remove power steering pressure hose bracket. On models equipped with V6 engine, disconnect cooling fan harness connector. On all models, remove front engine mount bolt and remove mount bracket.

5) Remove engine coolant recovery tank and set aside. Remove left engine mount assembly. Remove upper engine-to-transaxle bolts. Remove transaxle oil pan protective plate.

6) On models equipped with V6 engine, remove right-side drive belt cover and vibration dampening weight. On all models, remove torque converter cover plate and nuts from torque converter. Disconnect axle shafts at transaxle flanges.

7) Raise right-side axle shaft and secure. Remove left front wheel. Turn steering full-right to its lock. Mark position of ball joint bolts on left-side control arm for installation reference. On

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vehicles equipped with Plus Suspension option, remove both outer-most bolts. Loosen, but do not remove inner bolt. On models equipped with 4-cylinder engine, remove all bolts.

8) On all models, swing ball joint outward and secure left-side axle shaft aside (remove axle shaft if triple-roller type joint). Support transaxle with transmission jack.

9) Remove lower engine-to-transmission bolts. Tilt engine and transaxle forward. Separate transaxle from engine. Push torque converter up against pump. Lower engine, then transaxle slightly and guide power steering pressure line past transaxle.

10) Remove transaxle from vehicle. To install, reverse removal procedure. Adjust control cable. See ADJUSTMENTS in appropriate AUTOMATIC TRANSMISSION SERVICING article. Tighten bolts to specification. See TORQUE SPECIFICATIONS.

PASSAT

Removal & Installation

1) Obtain radio code. Disconnect negative battery cable. On models equipped with V6 engine, remove battery. On all models, disconnect speedometer cable from transaxle. Disconnect all harness connections at transaxle. Position harnesses aside.

2) Remove multi-function Transaxle Range (TR) switch. Move selector lever to Park position. Disconnect selector lever cable from lever/selector shaft. Remove selector lever cable anchor circlip and remove selector lever cable.

3) Using appropriate tool, clamp-off ATF cooler hoses. Disconnect hoses at ATF cooler. Disconnect cooling fan harness connector. Remove upper engine-to-transaxle bolts.

4) Remove starter. Support engine and transaxle assembly from top of vehicle with appropriate support fixture. Remove front engine mount bolt and remove mount bracket.

5) Remove engine coolant recovery tank and set aside. Remove left engine mount assembly. On models equipped with V6 engine, remove drive belt cover. Disconnect axle shafts at transaxle flanges.

6) Remove left front wheel. Turn steering full-right to its lock. Raise right-side axle shaft and secure. Mark position of ball joint bolts on left-side control arm for installation reference.

7) On vehicles equipped with Plus Suspension option, remove both outer-most bolts. Loosen, but do not remove inner bolt. On models equipped with 4-cylinder engine, remove all bolts. On all models, swing ball joint outward and secure left-side axle shaft aside (remove axle shaft if triple-roller type joint).

8) Remove transaxle oil pan protective plate and vibration dampening weight. Remove power steering pressure hose bracket. Remove torque converter cover plate and nuts from torque converter.

9) Support transaxle with transmission jack. Remove lower engine-to-transmission bolts. Tilt engine and transaxle forward. Separate transaxle from engine. Push torque converter up against pump. Lower engine, then transaxle slightly and guide past wheelhousing.

10) Rotate transaxle and remove from vehicle. To install, reverse removal procedure. Adjust control cable. See ADJUSTMENTS in

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appropriate AUTOMATIC TRANSMISSION SERVICING article. Tighten bolts to specification. See TORQUE SPECIFICATIONS.

TORQUE SPECIFICATIONS

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Application Ft. Lbs. (N.m)

Axle Shaft-To-Flange Bolts 33 (45)

Axle-To-Hub Lock Nut

Without Plus Suspension 195 (265)

With Plus Suspension

Except Passat (1)

Passat (2)

Ball Joint-To-Control Arm Bolt 26 (35)

Cover Plate-To-Transaxle Bolt 11 (15)

Front Mount-To-Bracket Bolt 44 (60)

Left Mount-To-Bracket Bolt 44 (60)

Left Mount-To-Transaxle Bolt 18 (25)

Starter-To-Transaxle Bolt 44 (60)

Torque Converter-To-Drive Plate Bolts 44 (60)

Transaxle-To-Engine

M10 Bolts 44 (60)

M12 Bolts 59 (80)

(1) - Tighten to 148 ft. lbs. (200 N.m), then back off one turn. Torque to 37 ft. lbs. (50 N.m) plus an additional 30 degrees.

(2) - Tighten to 66 ft. lbs. (90 N.m) plus an additional 45 degrees.

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END OF ARTICLE