

TRANSMISSION REMOVAL & INSTALLATION - A/T

Article Text

1989 Volkswagen Golf
For Volkswagen Technical Site
Copyright © 1998 Mitchell Repair Information Company, LLC
Tuesday, August 24, 1999 12:05AM

ARTICLE BEGINNING

1989 TRANSMISSION SERVICING Automatic Transmission Removal

Cabriolet, Golf, GTI, Jetta, Jetta GLI, Vanagon

NOTE: For manual transmission/transaxle replacement procedures, see CLUTCH article in the CLUTCHES section.

REMOVAL & INSTALLATION - EXCEPT VANAGON

REMOVAL

1) Disconnect battery ground cable. Disconnect speedometer cable from transaxle. Raise and support vehicle. Remove left front wheel.

2) Support engine from above. Remove left rear transaxle mount and support. Remove upper transaxle-to-engine bolts. Remove upper bolts in front engine/transaxle mount.

3) Remove lower bolts on front mount and remove mount. Remove protective plate from transaxle. Remove torque converter-to-drive plate bolts.

4) Disconnect accelerator and selector cables from transaxle. After placing mating marks on flanges, remove left and right axle shaft flange bolts. Tie axle shafts to the body.

NOTE: If clearance is needed to remove transaxle, separate ball joint from left side steering knuckle and move axle shaft away from transaxle.

5) Remove left rear engine mount. Remove starter. Remove subframe mounting bolts and allow subframe to hang free. Support transaxle with jack. Remove lower mounting bolt. Lower transaxle.

INSTALLATION

To install, reverse removal procedure. Adjust accelerator and selector cables. Refer to the TORQUE SPECIFICATIONS table at the end of this article.

REMOVAL & INSTALLATION - VANAGON

REMOVAL

1) Disconnect battery ground cable. Remove upper engine-to-transaxle bolts. Remove dipstick and bolt for dipstick tube support bracket.

2) Remove 3 torque converter-to-drive plate bolts through hole in top of transaxle housing. Raise and support vehicle.

3) Disconnect both axle shafts from transaxle. Remove

TRANSMISSION REMOVAL & INSTALLATION - A/T

Article Text (p. 2)

1989 Volkswagen Golf

For Volkswagen Technical Site

Copyright © 1998 Mitchell Repair Information Company, LLC

Tuesday, August 24, 1999 12:05AM

starter. Disconnect push rod from transaxle kickdown lever; Detach accelerator cable from transaxle. Detach selector lever cable from transaxle.

4) Disconnect and clamp coolant lines from transaxle cooler. Disconnect ground strap. Remove mounting bracket bolts. Support transaxle with jack.

NOTE: Bottom of engine must be supported when removing transaxle.

5) Remove lower transaxle-to-engine bolts. Separate engine from transaxle and remove engine.

INSTALLATION

To install, reverse removal procedure. Ensure torque converter is fully seated on one-way clutch support. Distance from engine mating surface to end of converter hub should be at least 3/8" (10 mm). Adjust accelerator and selector cables. Refer to the TORQUE SPECIFICATIONS table at the end of this paragraph.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

AA

Application Ft. Lbs. (N.m)

Except Vanagon

Axle Shaft-to-Flange Bolts	33 (45)
Torque Converter-to-Drive Plate Bolts	26 (35)
Transaxle-to-Engine Bolts	55 (75)

Vanagon

Axle Shaft-to-Flange Bolts	33 (45)
Torque Converter-to-Drive Plate Bolts	22 (30)
Transaxle-to-Engine Bolts	41 (55)

AA

END OF ARTICLE