

AXLE SHAFTS

Article Text

1993 Volkswagen EuroVan
For Volkswagen Technical Site
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ARTICLE BEGINNING

DRIVE AXLES

Volkswagen Axle Shafts - FWD

EuroVan

TROUBLE SHOOTING

Refer to TROUBLE SHOOTING - BASIC PROCEDURES article in the GENERAL TROUBLE SHOOTING section.

REMOVAL, DISASSEMBLY, REASSEMBLY & INSTALLATION

NOTE: Clean bolts and nuts to ensure tightening torque is correct.

AXLE SHAFT

Removal

1) Remove axle shaft nut. Remove wheel. Remove brake caliper and secure aside. Remove inner CV joint flange bolts. Loosen inner CV joint from transaxle flange.

2) Mark ball joint position on control arm. Remove ball joint from control arm. On models with manual transaxle, compress shock absorber. On models with automatic transaxle, remove plug from multifunction switch. On all models, pull axle shaft out of wheel bearing housing. See Fig. 1.

NOTE: Models with automatic transaxle use a tripod designed inner CV joint. CV joint boot may be replaced. No other information is available.

Disassembly & Reassembly (Exc. Tripot Designed Inner CV Joint)

1) Remove axle shaft boot(s). Using a drift, remove protective cap from CV joint. Remove circlip from inner CV joint.

2) Support CV joint with axle assembly on Support Stand (VW 402). Using Driver (VW 408A), press inner CV joint from axle shaft. DO NOT disassemble inner CV joint, replace as complete unit.

3) To remove outer CV joint, use a drift and hammer to drive CV joint off axle shaft. Rotate inner race and remove balls. Inspect for galling or wear. Cover balls with grease and reinstall in race. To reassemble, reverse disassembly procedure. See AXLE SHAFT LENGTH table. Use new circlips and boot clamps during assembly.

Installation

1) Apply locking compound around splines, not more than 1/4" wide. Install axle shaft. Bring ball joint into same position as marked before removal. Tighten ball joint. See TORQUE SPECIFICATIONS.

2) Install new axle shaft nut. Check camber, and adjust as necessary. Install wheel assembly. Allow locking compound to dry one

hour before driving vehicle.

NOTE: Models with automatic transaxle use a tripod designed inner CV joint. CV joint boot may be replaced. No other service information is available.

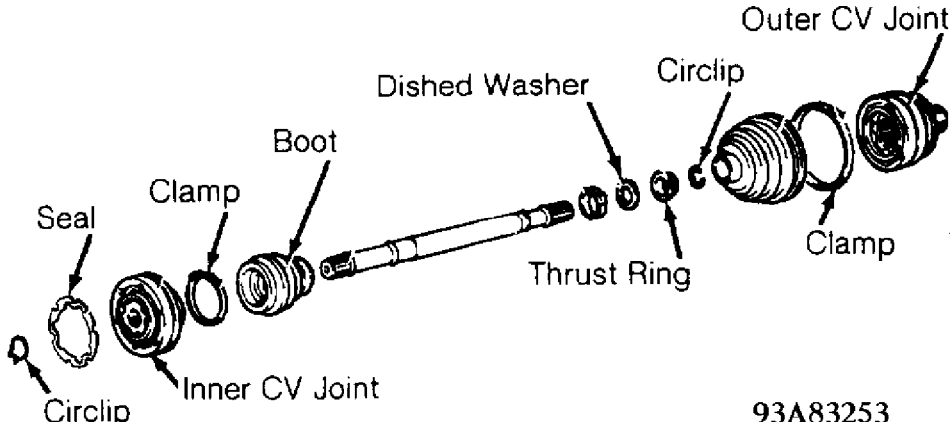


Fig. 1: View Of Axle Shaft (Man. Transaxle Shown; Others Similar)
 Courtesy of Volkswagen United States, Inc.

AXLE SHAFT LENGTH TABLE

Application	In. (mm)
EuroVan	(1)

(1) - Information not available from manufacturer.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

Application	Ft. Lbs. (N.m)
Axle Shaft Bolt	148 (200)
Brake Caliper Bolt	199 (270)
Inner CV Joint-To-Transaxle Bolt	41 (55)
Lower Ball Joint Nut	41 (55)
Spindle Assembly-To-Strut Nut	69 (94)
Subframe Mount Bolt	33 (45)
Tie Rod End Nut	22 (30)

END OF ARTICLE