

AXLE SHAFTS - FRONT

Article Text

1989 Volkswagen Golf
For Volkswagen Technical Site
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Monday, August 23, 1999 11:39PM

ARTICLE BEGINNING

1989-90 DRIVE AXLES
Volkswagen FWD Axle Shafts

Cabriolet, Fox, Golf, GTI, Jetta, Jetta GLI

TROUBLE SHOOTING MENU

TROUBLE SHOOTING CHART

AA	
Condition	Possible Cause
Grease Leaks	CV boot torn or cracked
Clicking Noise on Cornering	Damaged outer CV
Clunk Noise on Acceleration	Damaged inner CV
Vibration or Shudder	
on Acceleration	Sticking, damaged or worn CV, Misalignment or incorrect spring height
AA	

NOTE: When removing bolts or nuts coated with wax, clean thoroughly to ensure proper tightening torque is attained.

FWD AXLE SHAFT R & I (FOX)

REMOVAL (FOX)

Remove axle shaft nut. Remove wheel. Remove brake caliper and hang out of way. Remove inner CV joint bolts. Loosen inner joint from transmission flange. Mark ball joint position on control arm. Remove ball joint from control arm. Pull axle shaft out of wheel bearing housing.

NOTE: DO NOT heat wheel bearing housing to remove axle shaft. Damage to wheel bearing will result.

INSTALLATION

- 1) Apply locking compound around splines, not more than 1/4" wide. Install axle shaft. Bring ball joint into same position as marked prior to removal. Tighten ball joint. See TORQUE SPECIFICATIONS table at the end of this article. Install new axle shaft nut.
- 2) Check camber and adjust as necessary. Install wheel assembly. Install axle shaft nut. Allow locking compound 60 minutes drying time before driving vehicle.

FWD AXLE SHAFT R & I (EXCEPT FOX)

REMOVAL & INSTALLATION (ALL OTHERS)

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1) Remove axle shaft nut. Remove wheel. Remove brake caliper and hang out of way. Remove tie rod end bolts. Remove 2 bolts attaching wheel bearing to strut assembly. Remove lower ball joint nut if necessary.

2) Remove wheel bearing housing assembly. Loosen inner joint from transmission flange. Remove axle shaft assembly. To install, reverse removal procedure. Install new axle shaft nut. See TORQUE SPECIFICATIONS table at the end of this article.

AXLE SHAFT LENGTH TABLE

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Application	In. (mm)
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Fox (Left & Right Axles)	20.12 (511.0)
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All Others

Left Axle	17.44 (442.9)
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Right Right	26.66 (677.1)
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AA

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

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Application	Ft. Lbs. (N.m)
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Cabriolet

Axle Nut	174 (235)
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Axle Shaft To Transmission Bolts	33 (44)
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Lower Ball Joint Nuts	18 (24)
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Tie Rod End Bolt	22 (29)
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Wheel Bearing Housing to Strut Nuts	58 (78)
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Fox

Axle Nut	170 (230)
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Axle Shaft To Transmission Bolts	30 (40)
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Brake Caliper Bolts	47 (63)
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Lower Ball Joint Nuts	44 (59)
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Tie Rod End Nut	29 (39)
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Golf, GTI, Jetta & Jetta GLI

Axle Nut	170 (230)
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Lower Ball Joint Bolts

Jetta 16-Valve	22 (29)
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All Others	18 (24)
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Tie Rod End Nut	26 (35)
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Wheel Bearing Housing To Strut Nuts

Jetta w/ABS	70 (94)
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All Others	59 (79)
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