

TRANSMISSION SERVICING - 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 SERVICING Volkswagen

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

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

LUBRICATION

SERVICE INTERVALS

Check fluid level at each oil change. Change fluid every 30,000 miles under severe driving conditions. Replace filter if needed during fluid change.

CHECKING FLUID LEVEL

CAUTION: Fill 01M transaxle with VW ATF (G 052 162 A2) only. DO NOT use Dexron or Dexron-II type fluids.

096 Transaxle

1) Park vehicle on level surface, with transaxle at normal operating temperature. Set selector lever to Park. Apply parking brake. Allow engine to idle. Remove dipstick, wipe clean, and reinsert. Shift through all selector lever positions once.

2) Remove dipstick. Fluid level should be between marks on dipstick. If additional fluid is required, use Dexron or Dexron-II type fluid only and add as needed. DO NOT use any lubricant additives.

096 Final Drive

Park vehicle on level surface. Remove speedometer drive. Wipe clean and reinstall. Remove speedometer drive and check oil level. Oil must be between MIN and MAX markings. If addition fluid is required, add Synthetic G 50, SAE 75W-90 (G 052 145 A2).

01M Transaxle

1) Set selector lever to Park. Start engine and allow it to

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idle. Raise and support vehicle. With transaxle at normal operating temperature, remove ATF level plug from oil pan. Any ATF present in overflow tube (inside plug hole) will run out.

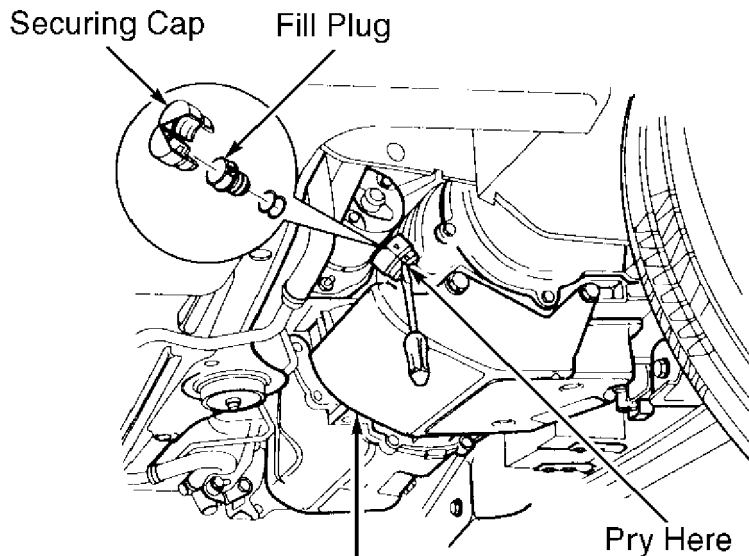
2) If only a small amount, or no ATF flows from overflow tube, filling is required. Go to next step. If ATF continues to run out, fluid level is okay. Install ATF level plug with a NEW seal and tighten to 11 ft. lbs. (15 N.m).

3) Pry off fill plug securing cap and discard. See Fig. 1. Spring retainer type caps may be reused. Pull plug from filler pipe. Fill with VW ATF (G 052 162 A2) using Filler (VAG 1924) until ATF runs out of level plug hole.

4) Install ATF level plug with a NEW seal and tighten to 11 ft. lbs. (15 N.m). Install filler plug with a NEW securing cap if needed. Shift through all selector lever positions once. Recheck fluid level.

01M Final Drive

Park vehicle on level surface. Remove speedometer drive. Wipe clean and reinstall. Remove speedometer drive and check oil level. Oil must be between MIN and MAX markings. If addition fluid is required, add VW ATF (G 052 162 A2).



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Fig. 1: Removing Filler Plug Securing Cap (01M Transaxle)
Courtesy of Volkswagen United States, Inc.

RECOMMENDED FLUID

RECOMMENDED FLUID

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Application	Fluid Type
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Transaxle

096	Dexron Or Dexron-II ATF
01M	VW ATF (G 052 162 A2)

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Final Drive

096 (1) G 50, SAE 75W-90 (G 052 145 A2)

01M VW ATF (G 052 162 A2)

(1) - Synthetic oil.

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FLUID CAPACITIES

TRANSAXLE REFILL CAPACITIES

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Application	Refill Qts. (L)	Dry Fill Qts. (L)
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096	3.2 (3.0)	5.9 (5.6)
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01M	3.2 (3.0)	5.6 (5.3)
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FINAL DRIVE REFILL CAPACITIES

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Model	Qts. (L)
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All Models8 (.75)
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DRAINING & REFILLING

096 Transaxle

1) Remove rear pan bolts. Loosen front pan bolts. Carefully lower pan to drain as much fluid as possible. Remove oil pan. Pour out remaining fluid.

2) Remove filter. Clean oil pan. Install NEW filter. Tighten filter retaining screws to 71 INCH lbs. (8 N.m). Install oil pan with NEW gasket. Tighten oil pan bolts to 108 INCH lbs. (12 N.m). Add 3.2 qts. (3.0L) ATF.

3) With engine running at normal operating temperature, shift through all selector lever positions once. Check fluid level. Add if necessary.

01M Transaxle

1) Remove ATF level plug from oil pan. Remove overflow tube through plug hole. Drain ATF. Install overflow tube. Screw level plug in hand-tight.

2) Add 3.2 qts. (3.0L) ATF through filler pipe. See 01M TRANSAXLE under CHECKING FLUID LEVEL. With engine running at normal operating temperature, shift through all selector lever positions once. Check fluid level. Add if necessary. Tighten ATF level plug to 11 ft. lbs. (15 N.m).

ADJUSTMENTS

CONTROL CABLE

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Loosen lock screw at gear selector lever on transaxle. Move gear selector in center console to "P" position. Ensure front wheels are locked. Tighten cable housing-to-gear selector lever lock screw.

SHIFT LOCK CABLE

1) Move gear selector to "1" position. Remove steering column covers. Turn ignition key to Start position and release. Check clearance between shift lock cable lever and ignition switch locking pin.

2) Clearance should be .028" (.70 mm). If clearance is not correct, loosen lock nut on shift lock cable sheath. Position shift lock cable lever to obtain correct clearance. Tighten lock nut. See Fig. 2. Tighten gear selector housing screws and install steering column covers.

SHIFT LOCK SOLENOID

Place gear selector in Neutral or Park. Loosen shift lock solenoid mounting screws. Insert a .019" (.30 mm) feeler gauge between shift lock solenoid push rod and shift lever. See Fig. 3. If necessary, move shift lock solenoid and tighten screws.

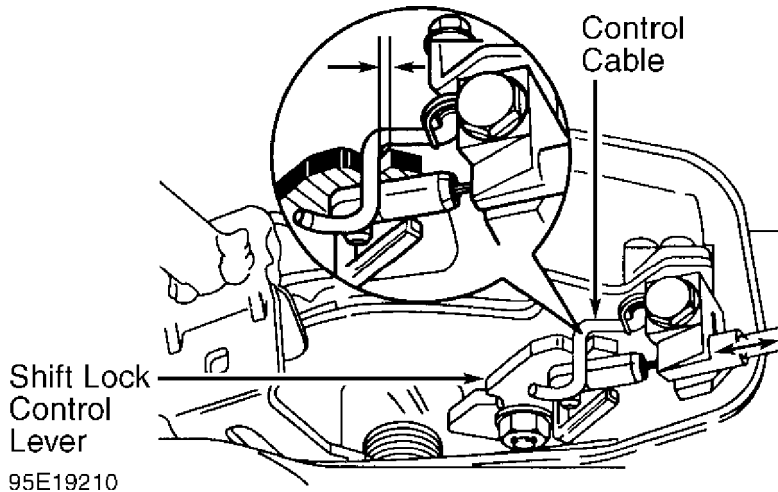


Fig. 2: Adjusting Shift Lock Cable
Courtesy of Volkswagen United States, Inc.

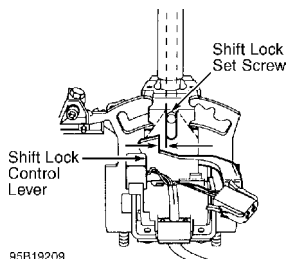


Fig. 3: Adjusting Shift Lock Solenoid
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