

TRANSMISSION SERVICING - M/T

Article Text

1991 Volkswagen Vanagon
For Volkswagen Technical Site
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Saturday, March 18, 2000 09:52PM

ARTICLE BEGINNING

1990-91 TRANSMISSION SERVICING
Manual Transmission

Cabriolet, Corrado, Fox, Golf, GTI, Jetta, Passat, Vanagon

IDENTIFICATION

MANUAL TRANSAXLE APPLICATIONS TABLE

Model			Transaxle
Cabriolet	.....	5-Speed - 020	Transaxle
Corrado	.....	5-Speed - 02A	Transaxle
Fox	.....	4-Speed - 014	Transaxle
Golf	.....	5-Speed - 020	Transaxle
GTI	.....	5-Speed - 020	Transaxle
Jetta	.....	5-Speed - 020	Transaxle
Passat	.....	5-Speed - 02A	Transaxle
Vanagon	.....	4-Speed - 091	Transaxle
Vanagon Syncro	.....	5-Speed - 094	Transaxle

LUBRICATION SERVICE INTERVALS

No oil changes are required.

CHECKING LUBRICANT FLUID LEVEL

Manufacturer states that fluid level does not have to be checked, and does not specify a procedure for doing so.

RECOMMENDED LUBRICANT FLUID

Use API GL-4, SAE 80W or 80W-90.

FLUID CAPACITY

TRANSAXLE REFILL CAPACITIES TABLE

Transaxle		Qts. (L)
02A	2.1 (2.0)
014	1.8 (1.7)
020	2.1 (2.0)
091	3.2 (3.0)
094	4.7 (4.5)

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GEARSHIFT LINKAGE ADJUSTMENTS

CABRIOLET

1) Pull boot from housing. Loosen shift rod clamp bolt so lever moves freely on shift rod. Adjust shift finger in center of lock-out plate so that there is an equal distance on both sides of shift finger. See Fig. 1.

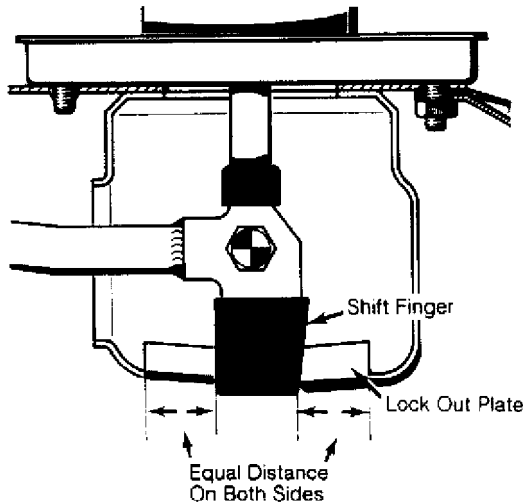


Fig. 1: Adjusting Shift Finger (Cabriolet)
Courtesy of Volkswagen United States, Inc.

2) Adjust shift rod end so distance "A" is 9/16" (14 mm). See Fig. 2. Tighten shift rod clamp to 14 ft. lbs (19 N.m). If shift linkage is spongy or jams after adjustment, change distance "A" to 1/2" (13 mm). If shift linkage will not stay in adjustment, install new clamp bolt and lock nut.

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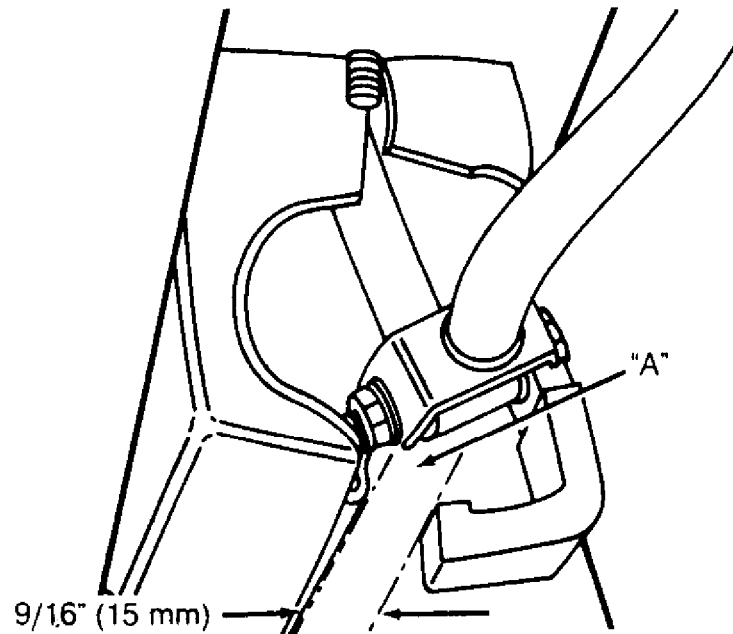


Fig. 2: Adjusting Shift Rod End (Cabriolet)
Courtesy of Volkswagen United States, Inc.

CORRADO & PASSAT

1) Place gearshift lever in Neutral position. Remove knob and boot. Loosen bolt "A" and nut "B" sufficiently so that operating cables move freely in centering holes. See Fig. 3. Install Shift Linkage Gauge (3193). Loosen bolt "C". See Fig. 4.

2) Pivot locating pin under bearing plate. Tighten nut "D". Place gearshift lever into left detent of slide. Move gearshift lever and slide together to left stop. Tighten slide with bolt "D". Move gearshift lever to right detent. Tighten bolt "E". Move gearshift lever to right detent. Tighten bolt "C".

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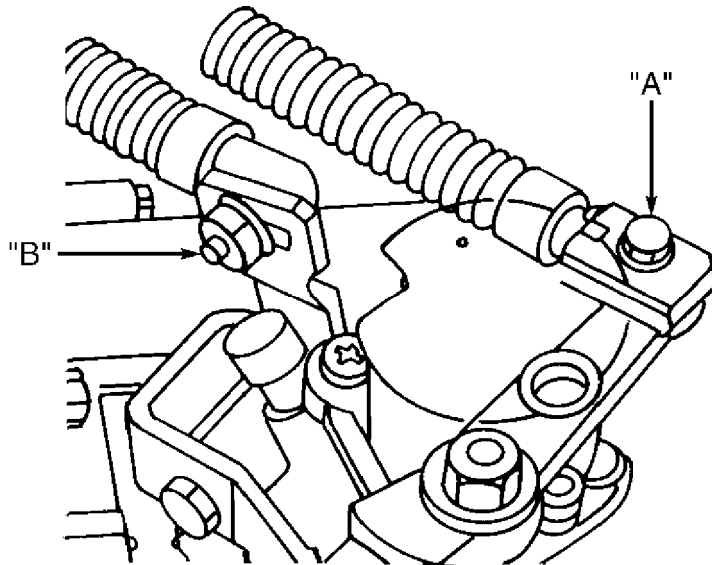
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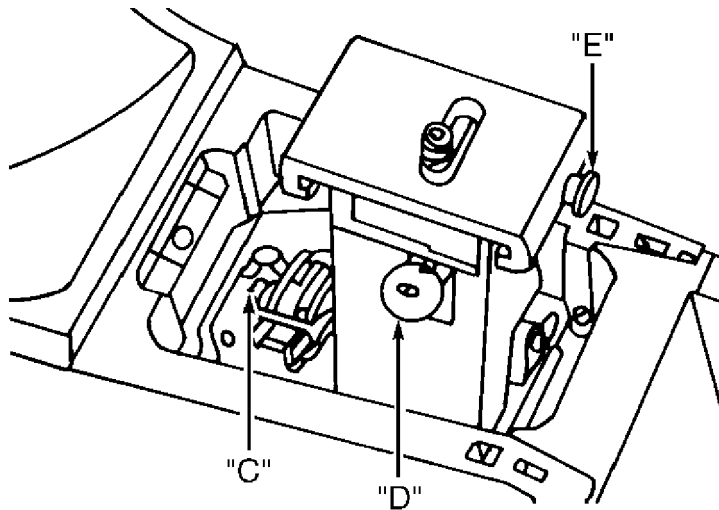
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92G01413

Fig. 3: Identifying Centering Holes



92I01414

Fig. 4: Installing Shift Linkage Gauge

FOX

1) Shift transaxle into 1st gear. Push gearshift lever to left stop. Release lever. If lever does not spring back .2-.4" (5-10 mm) to right, move gearshift lever housing very slightly in elongated holes. If adjustment does not correct hard shifting, go to step 2).

2) Place gearshift lever in 1st gear position. Remove boot and gearshift lever knob. Loosen clamp nut. Ensure shift finger slides freely on shifter rod. Move gearshift lever to left, as far as it will go. Release lever. Lever should spring back .2-.4" (5-10 mm). See Fig. 5.

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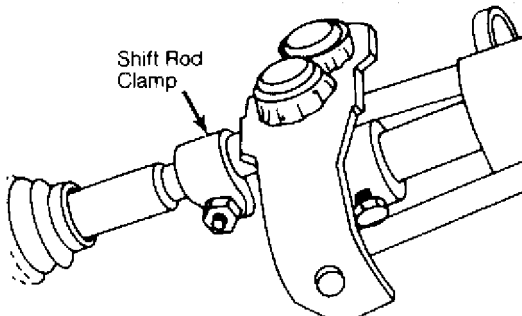


Fig. 5: Locating Shift Rod Clamp Nut
Courtesy of Volkswagen United States, Inc.

3) If lever does not spring back, move housing slightly sideways. If further adjustment is required, go to step 4).

4) Place gearshift lever in Neutral position. Place lever bearing housing in center of elongated hole. Loosen shift rod clamp nut. See Fig. 5. Ensure shift finger slides freely on shift rod. Remove gearshift lever knob and shift boot.

5) Align centering holes of gearshift lever housing and gearshift lever bearing housing. Tighten bolts. Install Gearshift Aligner (3057) with locating pin in front centering hole of vehicle. See Fig. 6.

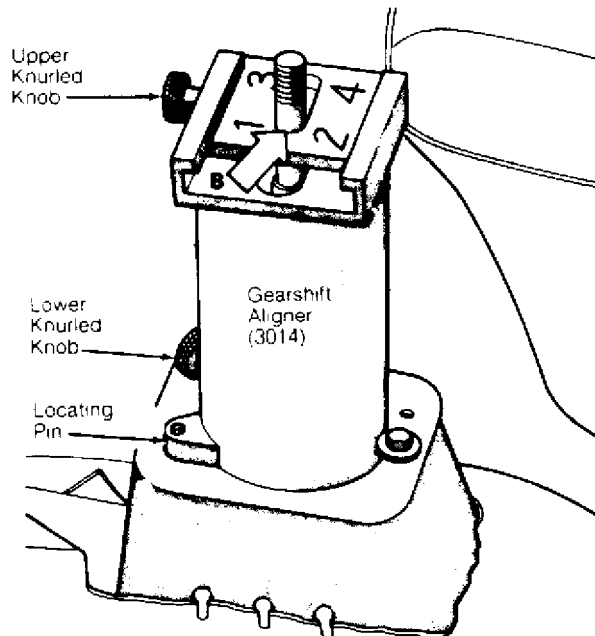


Fig. 6: Installing Gearshift Aligner (Fox)
Courtesy of Volkswagen United States, Inc.

6) Place gearshift lever into left cutout of slide. Secure in position by tightening lower knob. Move slide together with gearshift lever to left side stop. Tighten upper knob.

7) Place gearshift lever into right cutout of slide (shift position for 3rd/4th gears). Ensure transmission is in Neutral. Align

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shift rod and shift finger. Tighten clamp nut. Remove Aligner. Place gearshift lever into 1st gear position. Press gearshift lever to left side stop. When gearshift lever is released, it should spring back approximately .2-.4" (5-10 mm).

GOLF, GTI & JETTA

1) Place shift lever in Neutral position. Ensure transaxle is also in Neutral. Loosen lower shifter rod clamp. See Fig. 7. Selector lever must move freely on shifter rod.

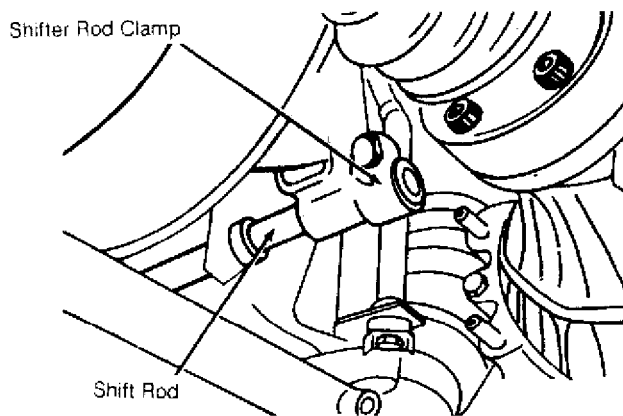


Fig. 7: Loosening Shift Rod Clamp (Golf, GTI, & Jetta)
Courtesy of Volkswagen United States, Inc.

2) Remove gearshift knob and boot. Position Adjustment Gauge (3104) over shift rod. See Fig. 8. With transaxle in Neutral, align shift rod with selector lever. Tighten shifter rod clamp to 19 ft. lbs. (26 N.m).

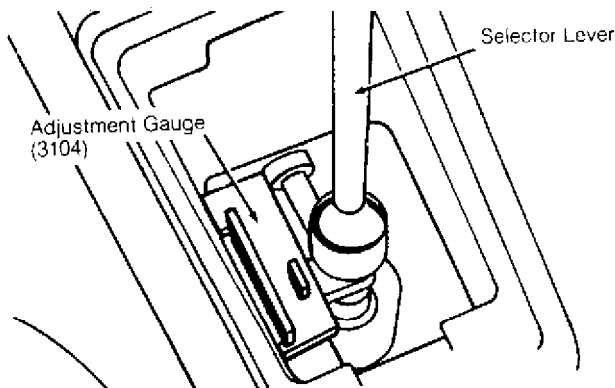


Fig. 8: Locating Adjustment Gauge
Courtesy of Volkswagen United States, Inc.

3) Move gearshift lever through all gear positions. Gears must engage smoothly and without jamming. Reinstall gearshift knob and boot.

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VANAGON (4-SPEED)

1) Place gearshift lever in Neutral position. Align round centering holes of upper gearshift lever housing plate with holes in lower lever bearing plate.

2) Loosen nut on clamp that connects front and rear shift rods. Ensure joints of shift rods slide freely. Remove spare tire. Set shift lever on transaxle in vertical Neutral position.

3) At gearshift lever end of front shift rod, ensure stop finger of front shift rod is in center of shift mechanism housing.

4) Adjust front shift rod end so there is 29/32" (23 mm) clearance between front shift rod end and stop plate. Tighten shift rod clamp.

5) Check for proper operation. Ensure shift lever does not rub against heater pipe insulation.

VANAGON (5-SPEED SYNCRO)

1) Place gearshift lever in Neutral position. Align round centering holes of upper gearshift lever housing plate with holes in lower lever bearing plate.

2) Loosen nut on clamp that connects front and rear shift rods. Ensure joints of shift rods slide freely. Remove skid plate. Place shift lever on transaxle in vertical Neutral position.

3) Measure distance between reverse gear lock and stop shift rod. Clearance should be 29/32" (23 mm). Tighten clamp in this position. Ensure all gears engage without jamming. Check reverse lockout operation. With transmission in 1st gear, measure distance between gear shift lever and heater covering. Clearance should be 19/32" (15 mm).

END OF ARTICLE