

Clutches

VOLKSWAGEN JETTA, PICKUP, RABBIT & SCIROCCO

DESCRIPTION

Clutch is a single plate dry disc type, using a diaphragm type pressure plate and a transmission mounted clutch release bearing. Clutch is cable operated.

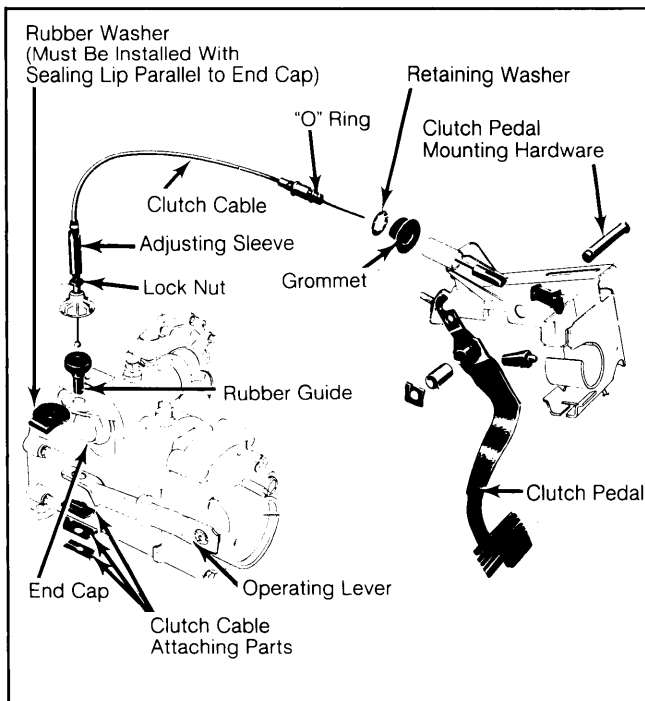
REMOVAL & INSTALLATION

TRANSAXLE & CLUTCH ASSEMBLY

Removal

1) Disconnect battery ground. Attach an engine support assembly. Remove left transaxle mount bolts and mount. Disconnect back-up light wires, speedometer drive cable (plug hole) and clutch cable.

Fig. 1: Clutch Cable Routing and Adjusting Location



2) Remove upper clutch housing-to-transaxle bolts. Remove starter. On models equipped with flywheel which has cutouts, align flywheel lug with boss on bell housing. On all models, disconnect shift linkage at rod lever and relay lever and remove front selector rod.

NOTE: Vehicles with cutouts in flywheel can be identified by a stud/nut at right engine-to-transaxle mounting position. Flywheel on this type vehicle **MUST** be aligned before separating engine/transaxle.

3) Remove exhaust pipe bracket. Remove transaxle rear mount and support transaxle on jack. Disconnect left and right drive shafts at transaxle and wire up out of way. Remove large plate cover bolts (plate remains on engine). Remove small cover bolts and cover.

4) Remove the right engine-to-transaxle bolt (stud/nut). On vehicles with cutouts in flywheel, pull transaxle away from engine to clear dowels and lower and remove transaxle. On all other vehicles, pull transaxle away from engine, while cocking engine so right side drive flange clears flywheel. Lower and remove transaxle.

5) With transaxle removed from engine, install holding tool (VW558) to ring gear or pressure plate. Remove bolts in a diagonal manner until flywheel can be removed. Pry retaining ring from release plate and lift release plate from pressure plate. Remove pressure plate bolts in a diagonal manner and separate clutch disc.

Installation

To install, coat pressure plate bolts with Loctite 270 or 271 (or equivalent) and reverse removal procedure. Retaining ring ends must be between 2 slots in release plate. Use centering tool (VW547) to center clutch disc on flywheel.

NOTE: If new flywheel is to be installed, a new timing mark must be cut into flywheel 1/4" (6 mm) to right of TDC mark.

CLUTCH RELEASE BEARING & OPERATING LEVER ASSEMBLY

Removal

1) Remove 4 bolts and washers mounting clutch release cover to the far left end of transaxle case. Cover is waffle patterned. Remove 2 circlips located at each side of clutch lever.

2) Pull operating lever and release shaft assembly out of case. Lift return spring along with clutch lever out of transaxle case. Take out release bearing, guide sleeve and push rod. Check all seals and bearing. Replace defective parts.

Installation

1) Coat ends of push rod with multi-purpose grease and insert back into position. Grease sliding surface of bearing and guide sleeve.

2) Position return spring and clutch lever inside transaxle case. Return spring center hook should fit on top of clutch lever lug. Spring end hooks must point down to hold clutch lever away from release bearing.

3) Lightly coat release shaft with multi-purpose grease. Fit shaft. Work operating lever until splines on release shaft mesh with those in clutch lever.

4) Install circlips. Make sure when operating lever is in normal position that return spring has tension. Fit gasket and cover.

ADJUSTMENT

PEDAL TRAVEL

1) Hook a tape measure over top of clutch pedal pad. Tape hook to pad to hold it in place. Pull tape through steering wheel and record measurement at centerline of wheel rim.

2) Press clutch pedal to floor with foot, using normal force for a shift while vehicle is stationary. Record measurement at centerline of wheel rim. If difference between 2 measurements is 4.6" (117 mm) or more, no further adjustments are necessary.

3) If difference is less than 4.6" (117 mm), adjustments to floor covering will be necessary. Remove push nut from stud behind pedal bracket. Remove left hand scuff plate from driver's door.

4) Separate carpet from floor deadener mat in wheel house, floor and toe pan areas on driver's side. With heel of shoe, push carpet into pocket formed by wheelhouse, floorpan and dash where clutch pedal bottoms out against floor pan.

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5) Lay carpet back into position and measure to see if required amount of travel has been obtained. If so, finish by tucking carpet under hinge pillar and scuff plate.

6) If clutch pedal travel is still short of 4.6" (117 mm), pull back carpet again and cut away portion of floor deadener that is between floorpan and area where pedal bottoms out. Reinstall carpet by pressing into pocket and reinstall trim pieces.

CLUTCH PEDAL FREE PLAY

1) Clutch pedal free play should be 27/32"-1" (21-25 mm) at clutch pedal. Loosen lock nut. Depress pedal at least 5 times. Insert adjusting gauge (US 5043) and adjust sleeve until zero free play is obtained.

2) Tighten lock nut. Remove adjusting gauge. Depress clutch pedal several times. Check free play at pedal.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Cover Plate	11 (15)
Drive Shaft-to-Transmission	32 (44)
Flywheel Bolts	14 (19)
Pressure Plate Bolts	54 (73)
Transmission-to-Engine	47 (64)