

## 1963-73 VOLKSWAGEN TYPE 1, 2 & 3

### TYPE 1

Sedan (1963-73)  
Convertible (1963-73)  
Karmann Ghia (1963-73)  
Super Beetle (1971-73)  
"The Thing" (1973)

### TYPE 2

Transporter (1963-73)

### TYPE 3

Fastback Sedan (1965-73)  
Squareback Sedan (1965-73)

## DESCRIPTION

Clutch is a dry, single disc type. Early models use a coil spring type and later models use a diaphragm spring type. Clutch is actuated by a cable connected to clutch pedal. A pre-lubricated clutch release bearing is also employed.

## REMOVAL & INSTALLATION

### CLUTCH ASSEMBLY

1) Engine must be removed to gain access to clutch assembly. See appropriate story in ENGINE Section. With engine removed, compress clutch with a suitable tool (VW657).

2) Install a suitable tool (VW215C) to prevent flywheel from turning. Mark position of clutch on flywheel for reinstallation and remove clutch assembly.

3) To install clutch assembly, reverse removal procedure. Make sure friction surface in flywheel is clean and apply grease to pilot bearing in flywheel nut.

4) Align clutch disc with suitable pilot shaft, install clutch cover and tighten bolts to specifications.

### CLUTCH CABLE REPLACEMENT

Type 1 & Type 3 – 1) Raise rear of vehicle and support with safety stands. Remove left rear wheel and tire. Disconnect cable at lever on transaxle.

2) Pull rubber boot from guide tube and cable. From inside drivers compartment, remove accelerator pedal and disconnect brake pedal return spring.

3) Remove master cylinder push rod lock plate and remove pedal assembly. Pull clutch cable out of pedal assembly mounting hole.

4) Later Type 3 models have a cover plate in chassis behind front suspension. With cover plate removed, clutch cable can be disconnected from pedal assembly and pulled out.

5) To install cable, apply grease to entire length of cable. Insert threaded end of cable in front side of guide tube and push cable completely through.

6) Install pedal assembly with cable connected. Connect cable to pedal assembly through front access hole on later Type 3 models.

7) Make sure rubber boot is seated correctly on rear of guide tube. Connect clutch cable to lever and lubricate wing nut before installing. Adjust clutch play. See *Clutch Adjustment*.

Type 2 – 1) Raise rear of vehicle and support with safety stands. Remove left rear wheel and tire. Disconnect clutch cable from clutch lever.

2) Pull rubber boot from cable guide and pull boot from cable. Remove cover plate from below pedal assembly. Push retaining clip from pedal and disconnect cable.

3) Slide rubber boot from front of guide tube and pull cable from tube. To install, lubricate entire length of cable and insert threaded end of cable in guide tube.

4) Install rear rubber boot and push onto guide tube. Insert threaded end in clutch lever, lubricate and install wing nut. Adjust clutch. See *Clutch Adjustment*.

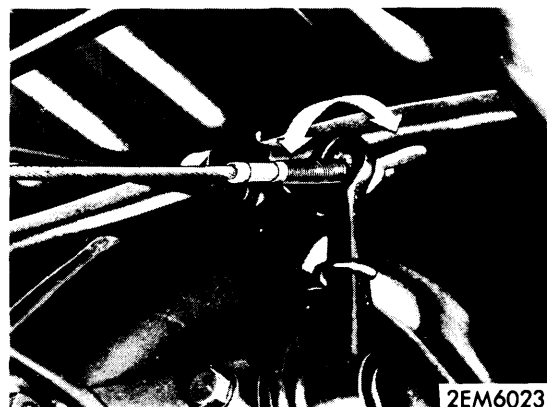
### CLUTCH RELEASE BEARING

1) With engine removed, pry clutch release bearing retaining clips from bearing and clutch arm, and remove bearing. **NOTE** – Do not wash bearing in any kind of solvent or cleaning solution.

2) Rotate bearing and check for roughness or noise while rotating. Lubricate pivot points on bearing. To install, reverse removal procedure.

### CLUTCH PILOT BEARING

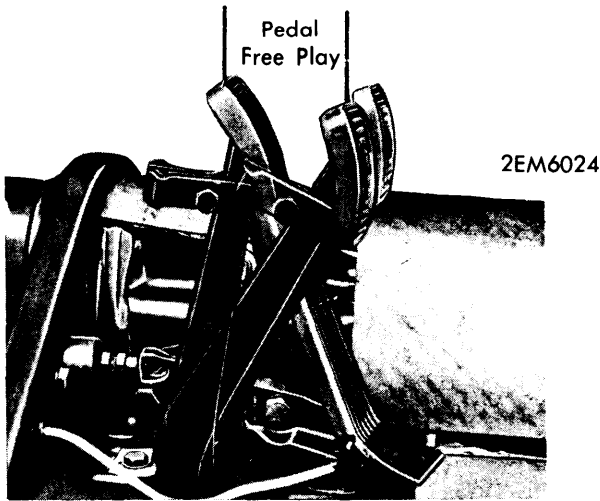
Clutch pilot bearing is integral with flywheel retaining nut. If bearing is defective, flywheel nut must be replaced. See appropriate story in ENGINE Section for flywheel nut installation and removal procedures.



ADJUSTMENT OF PEDAL FREE PLAY  
(TYPICAL)

# Clutches

## 1963-73 VOLKSWAGEN TYPE 1, 2 & 3 (Cont.)



**PEDAL FREE PLAY MEASURING POINT  
(TYPICAL)**

### ADJUSTMENT

#### CLUTCH ADJUSTMENT

- 1) The amount of clearance between clutch release bearing and clutch is determined by the amount of pedal free play.
- 2) Tighten or loosen wing nut at clutch lever until pedal has a free play of .4-.8" (10-20 mm) for all models.

#### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (mkg)
Clutch Assembly .....	18 (2.5)