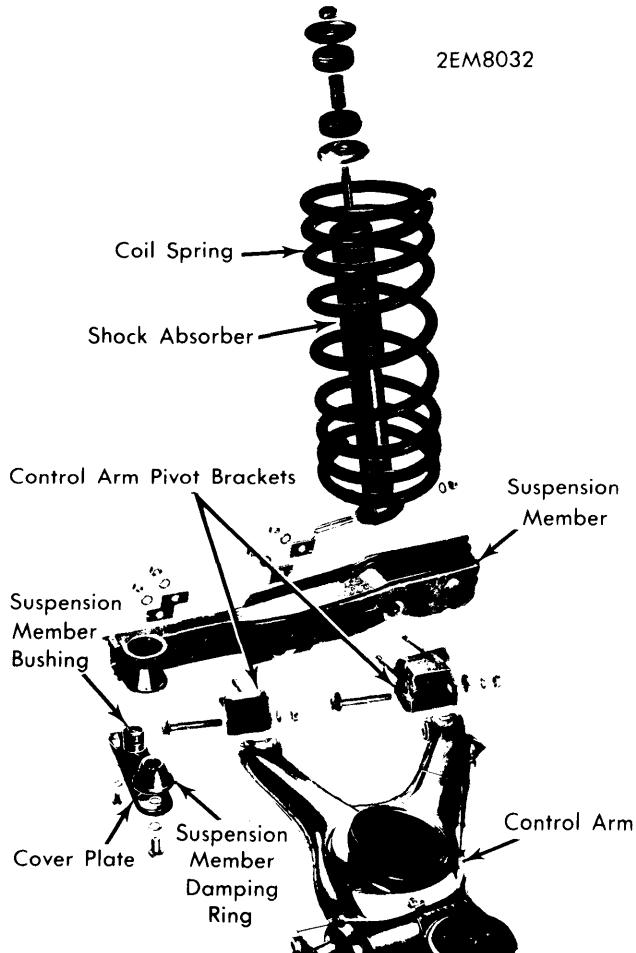


VOLKSWAGEN TYPE 4

Type 4
412

DESCRIPTION

Independent trailing control arm type rear suspension. Control arms pivot in brackets mounted to removable suspension members. Coil springs are mounted between control arms and body. Hydraulic shock absorbers are mounted between control arms and body inside coil springs. The four door 411 is equipped with a stabilizer bar. Position of control arms in relation with differential carrier is adjustable.



VOLKSWAGEN 411 REAR SUSPENSION COMPONENTS

ADJUSTMENT

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES — See Volkswagen Rear Wheel Alignment Specifications and Procedures in WHEEL ALIGNMENT Section.

REMOVAL & INSTALLATION

CONTROL ARM & COIL SPRING

NOTE — Control arms must be held in position when raising vehicle to remove control arm. Mount a suitable holding tool (VW 361/2) between control arm and body before raising.

Removal — Remove socket head screws retaining axle drive shaft to flanges and remove drive shaft. Disconnect parking cable at lever and pull out. Disconnect brake lines and remove stabilizer bar if equipped. Remove lower shock absorber mount at control arm. Remove holding tool and raise vehicle slowly. When vehicle is sufficiently raised, remove coil spring. Remove nuts securing control arm brackets to suspension member and remove control arm. Remove mounting brackets.

Installation — Pivot bushings are replaceable and can be removed or replaced by pressing in or out using a suitable driver. **NOTE** — See appropriate story in REAR AXLES Section for servicing of axle shafts and bearings. Install pivot brackets on control arm and tighten bolts to specifications. Install control arm on suspension member but do not fully tighten bolts. Check plastic tube over coil spring and install new one if worn or cracked. Install coil spring in vehicle and slowly lower vehicle making sure coil spring is in proper location. Install holding tool and connect shock absorber lower mount. Tighten to specification. Install stabilizer bar if equipped. Connect parking brake cable and adjust. Connect brake lines and bleed system. Put a small amount of grease on constant velocity joints and install drive shaft. Use new lock plates and tighten socket head screws to specification. Lower vehicle and remove holding tool. Adjust rear wheel alignment to specifications.

SUSPENSION MEMBER

Removal — Remove control arms as previously outlined. Remove cover plate bolts and remove cover plates. Remove suspension members complete with damping rings and bushings.

Installation — Inspect damping rings and bushings, replace if necessary. Install rings on sleeves on body. Install suspension member, lower damping rings and bushings. Install cover plates and tighten bolts to specifications. Install brackets on suspension member and tighten nuts lightly. Install control arms and remaining components as previously outlined. Adjust rear wheel alignment to specifications.

SHOCK ABSORBER

Removal — Using a suitable holding tool between control arm and body raise vehicle. Remove lower shock absorber mount at control arm. Remove floor coverings on floor of luggage compartment and remove upper shock absorber mount.

Installation — Reverse removal procedure for installation. Tighten all bolts and nuts to specifications.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (mkg)
Control Arm Pivot Mount Brackets	61 (8.4)
Suspension Member Mounting Bolts.....	29 (4.0)
Cover Plate Bolts	14 (1.9)
Control Arm Pivot Bolts.....	61 (8.4)
Shock Absorber Lower Mount	43 (6.0)
Shock Absorber Upper Mount	22 (3.0)
Stabilizer Bar Bracket Bolt.....	18 (2.5)
Stabilizer Bar Pivot Bracket Nut.....	10 (1.4)