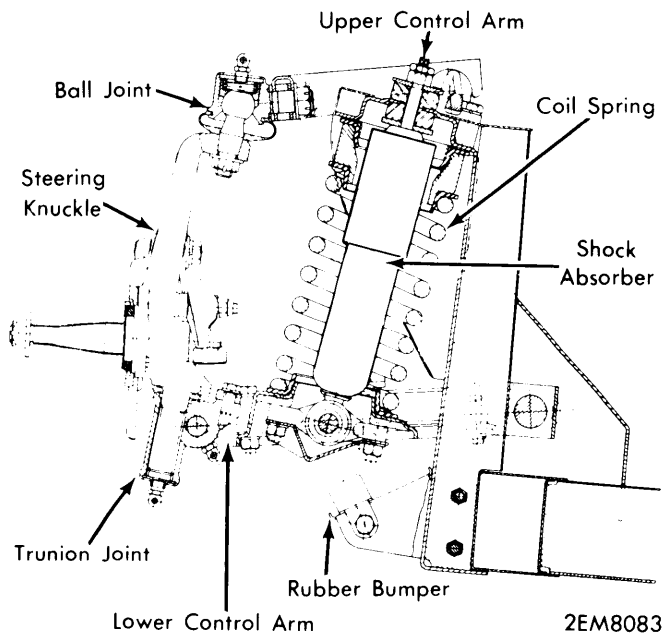


## TRIUMPH TR6

TR6

### DESCRIPTION

Independent type front suspension, consisting of upper and lower control arms, steering knuckles, coil springs and hydraulic shock absorbers. Upper and lower control arms pivot in mounts integral with chassis. Steering knuckles mount to upper control arms by means of ball joints and to lower control arms by means of trunion joints. Coil springs and shock absorbers mount at bottom to lower control arms and at top to chassis. A stabilizer bar is also installed.



**FRONT SUSPENSION COMPONENTS  
(TYPICAL)**

### ADJUSTMENT

#### WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

See *Wheel Alignment Specifications and Procedures* in **WHEEL ALIGNMENT** Section.

#### WHEEL BEARING ADJUSTMENT

See *Wheel Bearing Adjustment* in **WHEEL ALIGNMENT** Section.

#### BALL JOINT CHECKING

See *Ball Joint Checking* in **WHEEL ALIGNMENT** Section.

### REMOVAL & INSTALLATION

#### STABILIZER BAR

**Removal** — Disconnect stabilizer bar link from lower control arms on both sides. Remove nuts securing "U" bolts to crossmember. Remove "U" bolts and brackets and remove stabilizer bar. Disconnect link assemblies from stabilizer bar if necessary.

**Installation** — Replace any rubber bushings as necessary. To install stabilizer bar, reverse removal procedure.

#### BALL JOINT

**Removal** — Raise vehicle, position safety stands under chassis and remove wheel and tire. Place a jack under lower control arm and raise enough to remove spring tension from ball joint. Remove ball joint stud nut and, using a suitable puller (S166), separate ball joint from steering knuckle. Remove bolts securing ball joint to upper control arm and remove ball joint.

**Installation** — To install ball joint, reverse removal procedure. Tighten all nuts and bolts to specifications.

#### TRUNION JOINT

**Removal** — Raise vehicle, position safety stand under chassis and remove wheel and tire. Remove brake caliper, front hub and disc brake shield. Place a jack under lower control arm and raise enough to relieve spring tension from ball and trunion joints. Remove pivot bolt and nut securing trunion joint to lower control arm. Pull out on steering knuckle and separate trunion joint from control arm. Unscrew trunion from steering knuckle. Remove bushings from trunion if defective.

**Installation** — Install new bushings if old were removed. Partially fill trunion with 90 S.A.E. lubricant and install rubber boot. Screw trunion on steering knuckle. Reverse removal procedure to finish installation.

#### COIL SPRING

**Removal** — Raise vehicle, position safety stands under chassis and remove wheel and tire. Remove shock absorber and disconnect link from stabilizer bar. Position a jack under lower control arm directly under spring seat. Raise jack slightly to release spring pressure from steering knuckle joints. Disconnect trunion from lower control arm. Remove stabilizer bar link mount from lower control arm. Remove nuts securing lower spring seat to lower control arm. Carefully lower jack and remove spring seat and spring with upper and lower insulating rings.

**Installation** - To install coil spring and components, reverse removal procedure.

#### STEERING KNUCKLE

**Removal** - Raise vehicle, position safety stands under chassis and remove wheel and tire. Remove disc brake caliper, hub and dust shield. Position a jack under control arm and raise slightly to release tension from steering knuckle joints. Remove brake caliper mount and steering arm from steering knuckle. Disconnect ball joint from steering knuckle as previously outlined. Unscrew steering knuckle from trunion joint on lower control arm.

**Installation** — To install steering knuckle, reverse removal procedure.

# Front Suspension

## TRIUMPH TR6 (Cont.)

### UPPER CONTROL ARMS

**Removal** — Raise vehicle, position safety stands under chassis and remove wheel and tire. Place a jack under lower control arm and raise slightly to release spring tension from upper control arm. Disconnect upper control arm from ball joint. Pull steering knuckle and ball joint from upper control arms. Remove bolts securing control arm pivot shaft to chassis and remove shaft complete with arms. Remove arms from pivot shaft complete with rubber bushings. Remove bushings if defective.

**Installation** — To install upper control arms and bushings, reverse removal procedure.

### LOWER CONTROL ARMS

**Removal** — Raise vehicle, position safety stands under chassis and remove wheel and tire. Remove coil spring as previously outlined. Disconnect control arm pivot brackets from chassis, noting amount of adjustment shims installed, and remove control arms. Remove pivot bolts and separate control arms from mounts. Remove rubber bushings from control arms if defective.

**Installation** — To install lower control arms and bushings, reverse removal procedure.

### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (mkg)
Stabilizer Bar Bracket-to-	
Lower Control Arm .....	28 (3.9)
Stabilizer Bar "U" Bolt Nuts .....	3 (.42)
Stabilizer Bar Link-to-Lower	
Control Arm .....	34 (4.7)
Link-to-Stabilizer Bar .....	14 (1.9)
Ball Joint-to-Upper Control Arm .....	28 (3.9)
Ball Joint-to-Steering Knuckle .....	43 (6.0)
Control Arm-to-Pivot Shaft .....	33 (4.6)
Pivot Shaft-to-Chassis .....	28 (3.9)
Lower Control Arm	
Mounts-to-Chassis .....	23 (3.1)
Lower Control Arm	
Mounts-to-Pivot Bolts .....	42 (5.8)
Lower Control Arm-to-Trunion .....	58 (8.0)
Lower Steering Seat-to-Control	
Arm .....	28 (3.9)
Shock Absorber-to-Lower	
Control Arm .....	23 (3.2)