

# Ball Joint Checking

## TOYOTA

**Corona & Pickup (Lower)** – Raise vehicle under lower control arm. Check ball joint looseness by moving wheel vertically and horizontally. Movement limit in vertical direction must be less than .04" (1 mm) for Corona and .20" (5 mm) for Pickup. Horizontal limit is .08" (2 mm) for Corona and .09" (2.3 mm) for Pickup.

**Corona & Pickup (Upper)** – Make sure all suspension components are tight. Disconnect upper control arm from steering knuckle. Turn ball stud and check for excessive looseness or tightness. Replace ball joint and control arm if ball joint is excessively loose or tight.

**All Other Models** – Check for excessive looseness, proper operation and damaged ball stud. Replace as necessary.

## TRIUMPH

**All Models** – Inspect ball joints for excessive wear or play. Replace ball joint as necessary. See *Triumph in SUSPENSION Section*.

## VOLKSWAGEN

**Type 1 & 2** – Measure distance between top of lower ball joint and steering knuckle using a vernier caliper. Record measurement. Lever wheel or suspension so as to move ball

joint. Record ball joint movement. Difference between measurements is ball joint play. Refer to table for wear limits.

**All Other Models** – Raise and support, then turn steering to one side. Install suitable levering tool so that ball joint spring may be compressed. With spring compressed, position a vernier caliper with lower jaw on ball joint stud and upper jaw on top of clamping bolt for ball joint stud. Note reading. Slowly release tension from spring and note travel of caliper. This reading indicates ball joint play. If specified play is exceeded, replace ball joint. See *Volkswagen in SUSPENSION Section*.

Ball Joint Specifications		
Application	New	Used
Type 1		
Upper Ball Joint	.020" (.50 mm)	.040" (1.0 mm)
Lower Ball Joint	.020" (.50 mm)	.080" (2.0 mm)
Type 2 (All)	.020" (.50 mm)	.080" (2.0 mm)
Dasher, Rabbit		
Scirocco	.040" (1.0 mm)	.100" (2.5 mm)

## VOLVO

**All Models** – Maximum permitted axial play for lower ball joint is .12" (3 mm). Check ball joint by prying back and forth with a bar. If specifications are exceeded, replace ball joints. See *Volvo in SUSPENSION Section*.