

Front Suspension

FIAT 124

124 Spider

DESCRIPTION

Independent wishbone type suspension with coil springs and telescopic, hydraulic, double acting shock absorbers. Shock absorbers are mounted inside coil springs between upper and lower control arms. Control arms are connected to steering knuckle with ball joints.

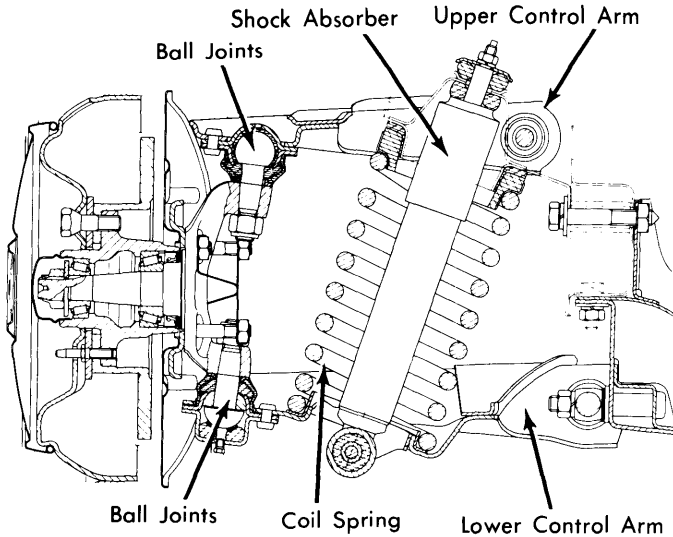


Fig. 1 Sectional View of Front Suspension Assembly

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

FRONT SUSPENSION ASSEMBLY

Removal – Raise and support vehicle. Place cross-support over engine compartment and attach to engine. Remove wheels and shock absorbers. Using suitable tool (A. 74174) compress spring to relieve lower control arm. Disconnect stabilizer bar from lower control arm. Block brake lines and disconnect from brake cylinder. Disconnect tie rod from steering knuckle arm using suitable puller (A. 47044). Remove pivot

bolt and detach upper control arm from body. Remove nuts and bolts securing lower control arm to crossmember and remove suspension.

Installation – To install, reverse removal procedure. Tighten all nuts and bolts, bleed brakes and check wheel alignment.

STEERING KNUCKLE

Removal – 1) Raise and support vehicle. Remove wheel, brake caliper, brake disc and plate. Using suitable puller, remove front grease cap. Remove hub using puller A.47015 (or equivalent). Remove inner race from inside hub bearing with a puller. Remove arm from steering knuckle.

2) Remove nut attaching lower control arm to steering knuckle and place suitable tool (A.47042) between control ball joints, then remove lower ball joint. Remove nut attaching upper ball joint to steering knuckle. Separate upper ball joint from steering knuckle.

Installation – Inspect all parts for signs of wear or damage. To install, reverse removal procedure and tighten all nuts and bolts.

COIL SPRINGS

Removal – Raise and support vehicle so that suspension hangs freely. Remove wheels and shock absorbers. Disconnect stabilizer bar from lower control arm. Support lower control arm with a jack and disconnect lower ball joint stud from steering knuckle. Install suitable spring compressor tool and rotate lower control arm down carefully. Coil spring may now be removed.

Installation – To install reverse removal procedure.

STABILIZER BAR

Removal – Remove front stabilizer bar by removing nuts and bolts securing bar to crossmember. Remove nuts and bolts attaching ends of stabilizer bar to lower control arms and remove stabilizer bar.

Installation – To install, reverse removal procedure.

TIGHTENING SPECIFICATIONS

| Application | Ft. Lbs. (mkg) |
|--|----------------|
| Lower Control Arm Pin-to-Crossmember | 43 (6.0) |
| Lower Control Arm-to-Crossmember | 72 (10.0) |
| Upper Control Arm | 65 (9.0) |
| Lower Shock Absorber | 43 (6.0) |
| Steering Arm-to-Steering Knuckle | 43 (6.0) |
| Brake Caliper | 36 (5.0) |
| Crossmember-to-Side Member | 69 (10.0) |