

FIAT 124

124 Spider
124 Sport Coupe

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.

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.

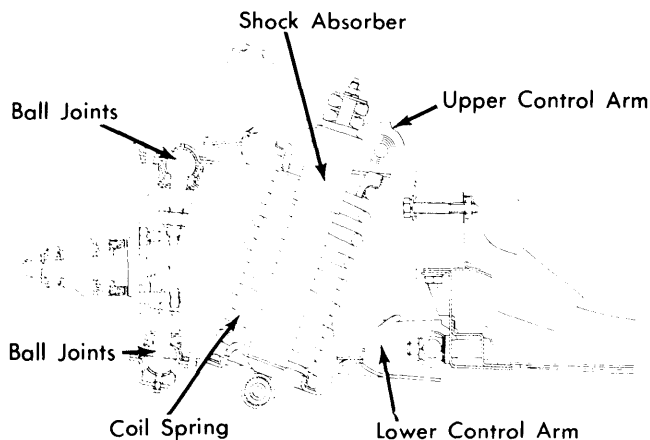


Fig. 1 Sectional View of Front Suspension Assembly

STEERING KNUCKLE

Removal — Raise and support vehicle. Remove wheel, brake caliper, brake disc and plate. Using suitable puller (A. 47014) remove front wheel hub cap and remove hub using suitable puller (A. 47015). Remove inner race of inside hub bearing using suitable puller (A. 47001). Remove arm from steering knuckle. Remove nut attaching lower control arm to steering knuckle and place suitable tool (A. 47042) between two ball joints of the control arms and remove lower ball joint from steering knuckle. Remove nut attaching upper ball joint from steering knuckle. Attach tool (A. 47042) between steering knuckle and ball joint pin and remove upper ball joint.

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

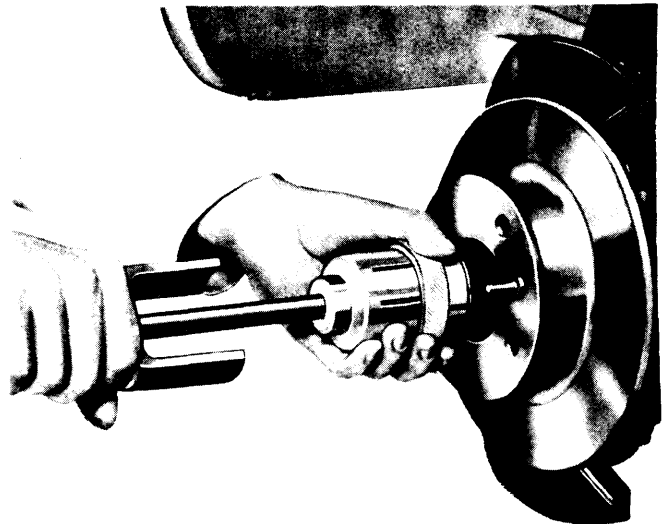


Fig. 2 Removing Front Wheel Hub Cap

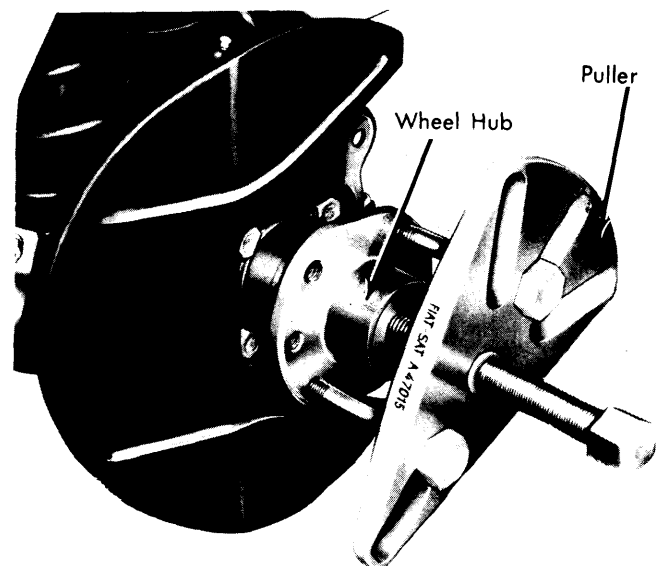


Fig. 3 Removing Front Wheel Hub Assembly

COIL SPRINGS

Removal — Raise and support vehicle so that suspension hangs freely. Remove wheels and shock absorbers. Disconnect

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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.

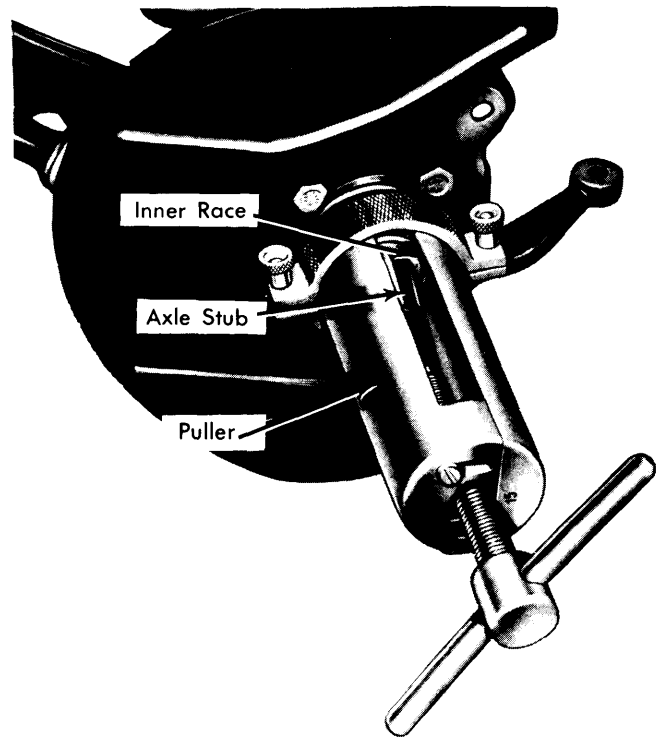


Fig. 4 Removing Inner Race of Inside Front Wheel Bearing

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)