## CHRYSLER CORP. ARIES & RELIANT

### DESCRIPTION

Rear suspension is a trailing arm, solid-axle design. An integral tubular stabilizer bar is positioned inside the axle and attached to the spindle mounting plates at either end of the axle channel. The trailing arms and coil spring seats are welded directly to the axle channel. A track bar provides lateral stability. Coil springs and vertically-mounted shock absorbers complete the suspension assembly.

### REMOVAL & INSTALLATION

#### SHOCK ABSORBERS

**Removal** – Raise vehicle and support axle. Remove wheel and tire assembly. Remove upper and lower shock absorber mounting bolts and remove shock absorbers.

**Installation** – To install, reverse removal procedure and tighten all nuts and bolts.

#### COIL SPRINGS

**Removal** – Raise vehicle and support axle assembly. Remove both lower shock absorber mounting bolts. Lower the axle assembly until the spring and upper spring isolator can be removed. Remove 2 screws holding isolator cup to side rail, and remove entire assembly.

**Installation** – To install, reverse removal procedure.

#### TRACK BAR, BRACE & BRACKET

**Removal** – Raise vehicle. Raise rear axle to curb height with jack stands. Remove track bar-to-axle through bolt, and track bar-to-frame pivot bolt. Remove track bar. Remove diagonal brace-to-underbody stud nut and remove brace. Remove 2 track bar bracket-to-frame bolts and remove bracket.

**Installation** – To install, reverse removal procedure.

#### PIVOT BUSHING

**Removal** – **1)** Raise vehicle and remove wheel and tire. Remove parking brake cable guide and hydraulic hose retaining bracket screw. Support trailing arm and remove hanger bracket-to-frame side rail screws.

**2)** Wedge bushing end of trailing arm down slightly with a block of wood. Remove pivot bolt and spacer. Position bushing remover tool (C-4702) over support cup (C-4366-1) and press (C-4212). See *Fig.* 2.

**3)** Position assembly with support cup supporting trailing arm. Turn screw on press into remover tool and press bushing out.

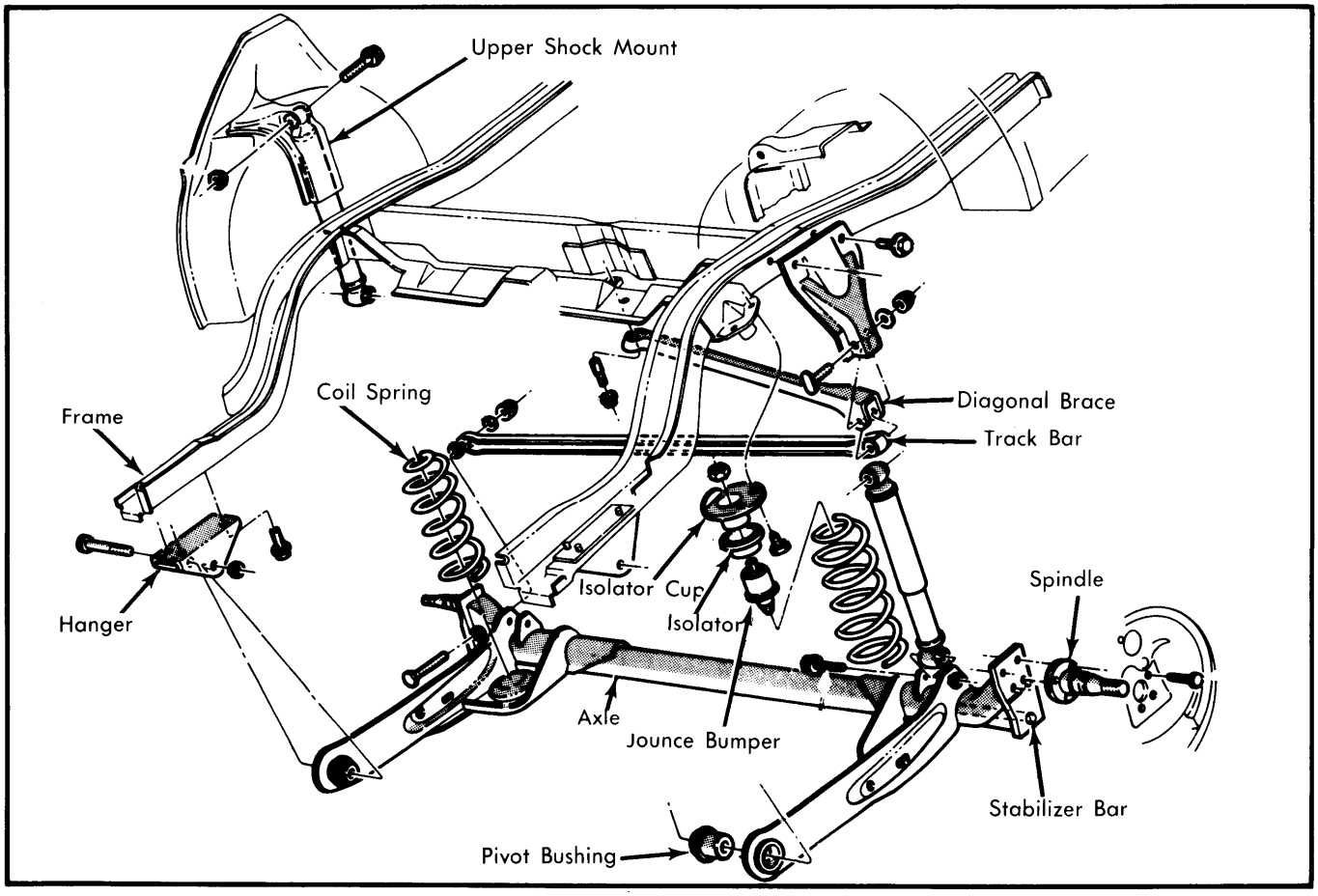


***Fig. 1 Aries & Reliant Rear Suspension Assembly***

## CHRYSLER CORP. ARIES & RELIANT (Cont.)

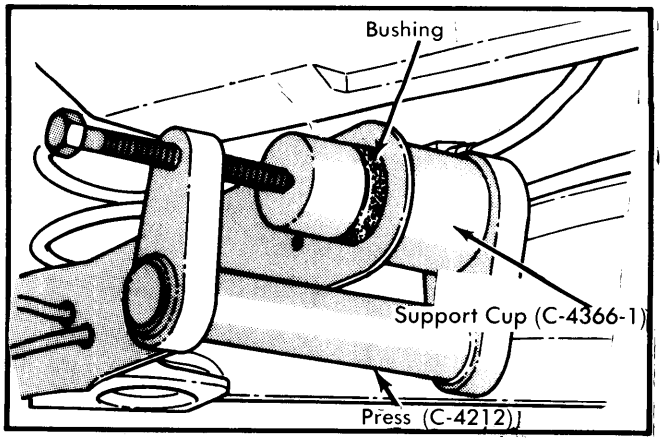


***Fig. 2 Removing Pivot Bushing***

NOTE – *Fixture tool (C-4702-3) is required, along with the tools used for removal, to install the pivot bushings. The bushing rotational attitude is different for right and left sides. Flats on the bushing flange locate the left or right side attitude during installation with tool (C-4702-3). This tool fixes the bushing for proper installation by pinning one of two locating holes in the tool web to the cable and hose bracket retaining screw hole. The tool locating holes, marked left (driver side) and right (passenger side) are provided to control proper degree of bushing rotation during installation. See Fig. 3.*

**Installation** – 1) Position the guide depth fork of fixture tool (C-4702-3) around bushing cavity. Locate appropriate left or right alignment hole over brake tube and cable guide bracket retaining screw hole, and install pin to secure tool position. See *Fig. 3.*

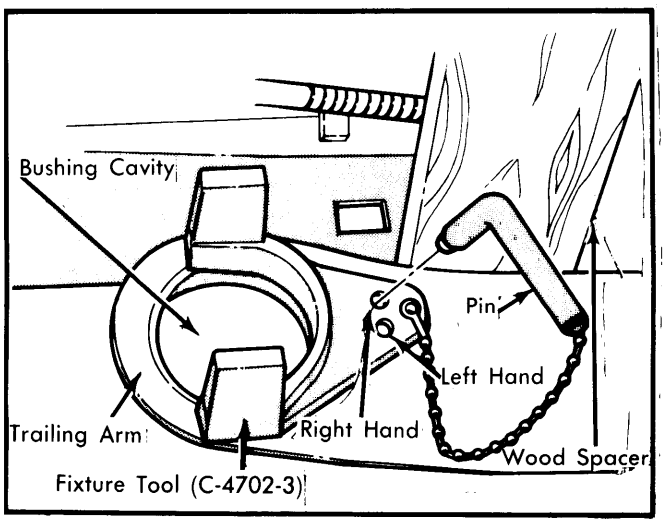


***Fig. 3 Positioning Pivot Bushing Fixture Tool to Arm***

2) Align bushing to tool flats and arm cavity. Tap bushing in slightly to hold in position. Assemble installer tool (C-4702-3) onto press (C-4212) and support cup (C-4366-1). Position assembly as shown in *Fig. 4,* and press bushing fully into fixturing tool. Repeat procedure on opposite side.

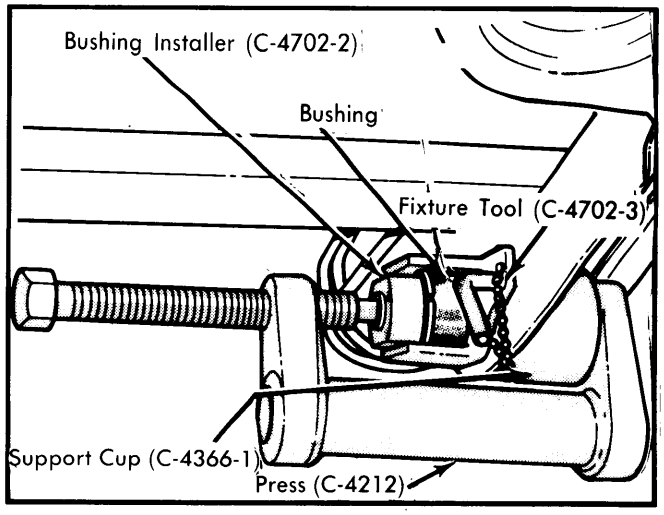


***Fig. 4 Installing Pivot Bushing***

3) Remove installing tools. Position hanger bracket on pivot bushing and install through bolt. Remove spacer block and position hanger to frame rail. Install and tighten screws.

4) Install brake hose and cable guide bracket and tighten screws. Install wheel and tire. Lower vehicle and tighten pivot bolt nut.

### REAR AXLE ASSEMBLY

**Removal** – 1) Raise vehicle and support axle with jack stands. Remove wheel and tire. Separate parking cable at connector and floor pan bracket. Separate brake tube assembly from brake hose at trailing arm support bracket and remove lock.

2) Remove lower shock absorber through bolts and track bar-to-axle through bolts. Support track bar end with wire. Lower axle until spring and isolator assembly can be removed.

3) Support pivot bushing end of trailing arms and axle beam with jack stands. Remove pivot bushing hanger bracket-to-frame screws. Lower and remove axle assembly from vehicle.

4) Remove brake drum assembly, spindle and brake support, if required.

**Installation** – To install, reverse removal procedure and tighten lower shock absorber bolts and track bar bolts with suspension supporting vehicle on ground.

### TIGHTENING SPECIFICATIONS

| Application | Ft. Lbs. |
|---|---|
| Trailing Arm-to-Hanger Bracket | 40 |
| Brake Assembly and Spindle Bolts | 45 |
| Upper Spring Seat Retaining Nut | 20 |
| Lower Shock Absorber Bolts | 40 |
| Upper Shock Absorber Nuts | 40 |
| Track Bar Bolts | 80 |
| Track Bar Bracket-to-Rail | 40 |
| Track Bar Brace-to-Body Stud | 40 |
| Track Bar Brace-to-Stud Nut | 45 |