

## FORD MOTOR CO. 4-WD COIL SPRING TYPE

F-100  
U-100

### REMOVAL & INSTALLATION

#### DESCRIPTION

Front suspension consists of a driving axle, two coil springs, two radius arms, two hydraulic shock absorbers, and a side strut bar. Radius arms attach to frame side rails and are clamped around axle housing. Coil springs are mounted to radius arms, directly above axle housing, and to brackets attached to frame side rails. Shock absorbers attach to frame side rails and radius arms, behind springs. Side strut bar, used to eliminate axle side movement, is attached to left frame rail, and right side of axle housing.

#### ADJUSTMENT

##### WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

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

##### WHEEL BEARING ADJUSTMENT

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

#### COIL SPRING

**Removal** — Raise and support vehicle under frame, and position suitable jack under front axle assembly, just touching axle. Remove upper and lower spring retainer attaching bolts. Remove upper spring retainer from vehicle. Lower front axle assembly just enough to relieve tension from coil spring. Remove coil spring and lower spring retainer from vehicle.

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

#### RADIUS ARM

**Removal** — Raise and support vehicle under frame. Disconnect shock absorber from radius arm, and pull out of the way. Remove lower spring retainer attaching bolts, and remove cotter pin and nut attaching radius arm to frame. Remove radius arm-to-radius arm cap attaching bolts, and remove cap. Move axle housing slightly forward and remove radius arm from vehicle.

**NOTE** — Radius arm and radius arm cap are a matched set with identical numbers on each part, and should not be mixed.

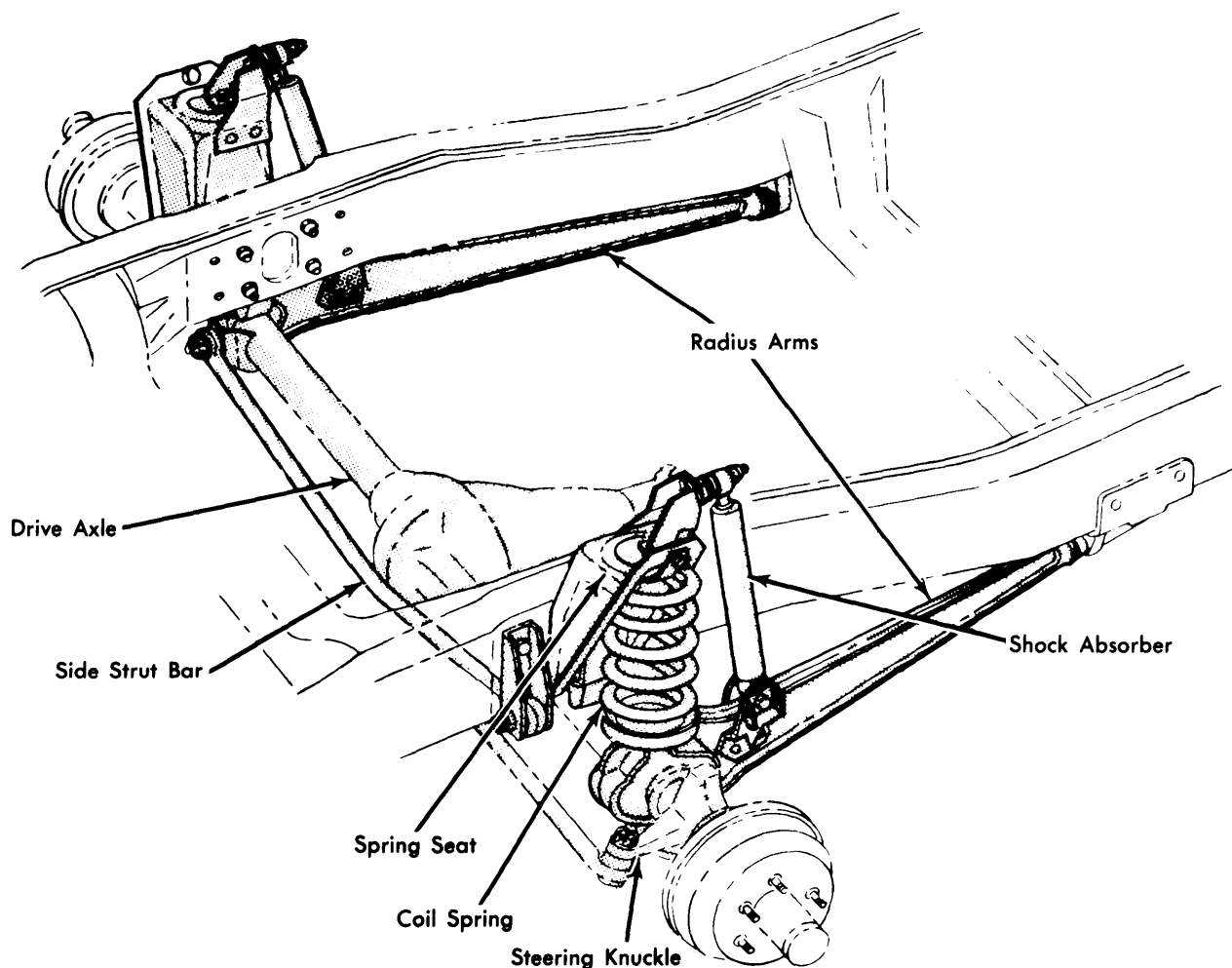


Fig. 1 Front Suspension Assembly

# Front Suspension

## FORD MOTOR CO. 4-WD COIL SPRING TYPE (Cont.)

**Installation** — Position rear of radius arm in bracket on frame, and loosely install nut. Position front of radius arm on axle housing, and install radius arm cap with numbers on cap and radius arm together. Install cap attaching bolts, and tighten diagonally in pairs. Position spring and lower spring retainer on radius arm and loosely install bolts. Connect shock absorber to radius arm, and tighten all nuts and bolts.

### STEERING KNUCKLE

**Removal & Installation** — See *Open Steering Knuckle* article in *DRIVE AXLE* Section for steering knuckle removal and installation.

### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Upper Spring Retainer .....	20-25
Lower Spring Retainer .....	45-55
Side Strut Bar-to-Frame .....	110-130
Side Strut Bar-to-Axle .....	115-205
Radius Arm-to-Bracket .....	80-120
Radius Arm Cap-to-Radius Arm .....	90-110
Shock Absorber Mounting Bolt	
Lower .....	40-60
Upper (F-100) .....	40-60
Upper (U-100) .....	15-25