

## ALL CAR MODELS

### ADJUSTMENT

**NOTE** — Correct wheel bearing adjustment is very important on vehicles with disc brakes as too much endplay in bearings will cause disc wobble and brake damage.

**NOTE** — On all cars with disc brakes, caliper assembly must be removed before disc and hub to work on wheel bearings. Caliper-to-disc clearance is very critical on some cars. Be sure to observe all cautions. It is not necessary to disconnect brake lines to remove caliper assembly. Wire caliper assembly up out of way (do not hang from brake line).

#### AMERICAN MOTORS

**All Models** — Tighten spindle nut to 25 ft. lbs. while rotating wheel. Loosen spindle nut 1/3 turn, with wheel rotating, and retorque spindle nut to 6 INCH lbs. Place nut retainer on spindle nut with slots of retainer aligned with cotter pin hole on spindle. Install cotter pin and dust cap.

#### CHRYSLER CORP. (EXCEPT OMNI & HORIZON)

Tighten wheel bearing adjusting nut to 240-300 INCH lbs. while rotating wheel. Back off adjusting nut until preload is released, tighten adjusting nut finger tight and install lock nut and cotter pin. The resulting adjustment should be .001-.003" end play.

#### CHRYSLER CORP. (OMNI & HORIZON)

**Front** — Tighten bearing retainer bolts to 20 ft.-lbs. Hub nuts and washers are not re-usable. Replace when removed. Tighten new nuts to 200 ft. lbs. Using a 7/16" wide tool with a blunt edge (1/16" radius), stake hub nut to axle slot to maintain proper bearing preload and to prevent nut from backing off.

**Rear** — Install washer and tighten adjusting nut to 240-300 INCH lbs. while rotating wheel. Back off nut with wrench to release bearing preload. Fingertighten nut. Position locking nut and install cotter pin through lock nut and spindle hole. End play should be .004-.120".

#### FORD MOTOR CO.

**All Models** — Rotate wheel, hub, (& rotor on disc brake) torque adjusting nut to 17-25 ft. lbs. Back off nut 1/2 turn. Retighten adjusting nut to 10-15 INCH lbs. Install cotter pin.

#### GENERAL MOTORS

**Buick** — Spin wheel and snug spindle nut to seat bearing. Back off nut until just loose (1/4 - 1/2 turn). Hand snug spindle nut, loosen nut 1/12 turn and insert cotter pin. End play should be .001-.005".

**Cadillac (Except Eldorado)** — Tighten adjusting nut to 15 ft. lbs. while rotating wheel. Back off spindle nut one flat and retighten finger tight. If slot and hole not aligned, loosen adjusting nut until cotter pin can be installed.

**Cadillac Eldorado (Front Wheel)** — When installing hub assembly, tighten nut to 110 ft. lbs. Tighten nut to next slot if necessary, to install cotter pin. **NOTE** — No bearing adjustment necessary.

**Cadillac Eldorado (Rear Wheel)** — While rotating hub assembly, tighten spindle nut to 25-30 ft. lbs. Then back off nut 1/2 turn, retighten to 2 ft. lbs. Install cotter pin, if necessary to make holes align, back off nut until cotter pin may be inserted.

**Chevrolet** — While rotating wheel, snug nut to 12 ft. lbs. to fully seat bearings. Back off nut until loose. Snug nut up by hand, loosen until either hole in spindle lines up with slot in nut and insert cotter pin. Endplay should be .001-.005".

**Chevrolet Corvette (Rear Wheel)** — Raise vehicle on hoist, and disconnect outboard end of axle drive shaft from wheel spindle flange. Mark camber cam position on bracket and turn camber bolt to force control arm outward. Remove wheel and tire and using dial indicator, check for .001-.008" end play. If end play is excessive, decrease shim thickness. If no end play is present, increase shim thickness. End play will vary in direct relationship to change in shim thickness.

**Oldsmobile (Except Toronado)** — Tighten spindle nut to 12 ft. lbs. while rotating wheel. Back off nut 1/2 turn and retighten finger tight. Insert cotter pin. Back off no more than 1/12 turn when installing cotter pin. There should be .001-.005" end play.

**Oldsmobile Toronado (Front Wheel)** — Not a bearing adjustment. When installing hub assembly, tighten nut to 175 ft. lbs. Tighten nut to next slot if necessary, to install cotter pin.

**Oldsmobile Toronado (Rear Wheel)** — Same as standard Oldsmobile front wheel bearing adjustment (see above).

**Pontiac** — Spindle nut should be tightened to 12 ft. lbs. while rotating wheel to fully seat bearings. Back off nut until just loose and finger tighten. Loosen until hole in spindle lines up with slot in nut and install cotter pin. Endplay should be .001-.005".

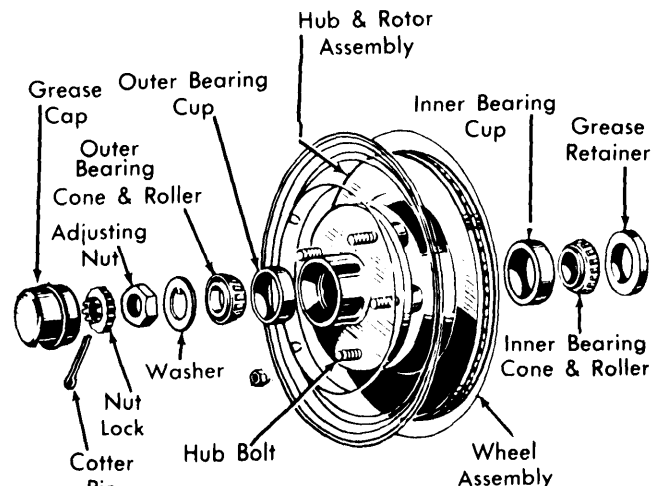


Fig. 1 Wheel Bearing Exploded View (Typical)