AMERICAN MOTORS

TIRE INFLATION (COLD)

Tires must be inflated to manufacturer's specifications (found on body pillar at rear of left front door opening).

CAMBER

All Models – Adjust camber by turning lower control arm inner pivot eccentric. When desired camber setting is attained, tighten lock nut to 110 ft. lbs.

CASTER

All Models – Adjust caster by turning nuts on strut rods *(see Fig. 8)*. Turning nuts on rod will move lower control arm forward or rearward for desired caster angle. Tighten adjusting nuts to 65 ft. lbs. and jam nuts to 75 ft. lbs. after adjustment.

NOTE – *One turn equals approximately ½°.*

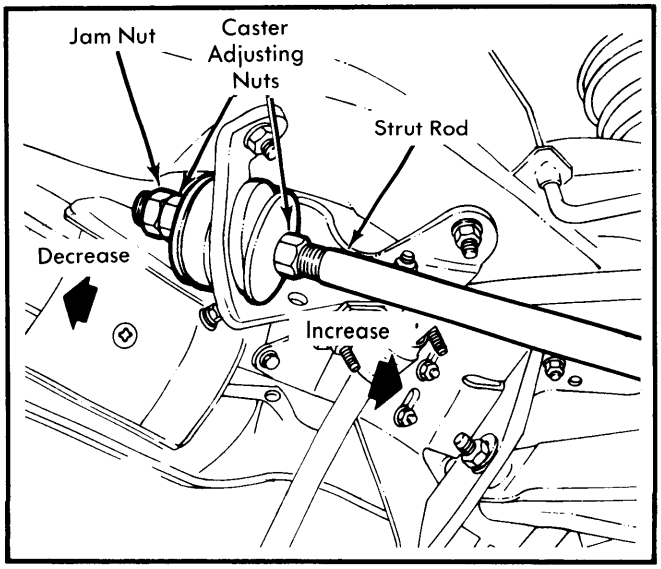

Fig. 8 Caster Adjustment

CHRYSLER CORP.

TIRE INFLATION (COLD)

Inflate tires to manufacturer's specifications, found on body pillar at rear of left front door opening.

RIDING HEIGHT

Rear Wheel Drive Models – 1) Measurement points must be clear of dirt or foreign materials. With vehicle at curb weight and positioned on level floor, bounce vehicle several times and release it on downward motion. Let vehicle settle to normal height.

2) On Gran Fury, Newport, New Yorker and St. Regis models, measure riding height from bottom of frame rail between yoke and front isolator to floor. On other models, measure from front insulator bolt head to floor.

3) Height should be within ¼" of specifications and side-to-side difference should be within ¼". To adjust, turn torsion bar adjusting bolt clockwise to increase height and counterclockwise to decrease height. After adjustment is completed, bounce vehicle and recheck both sides.

Front Wheel Drive Models – On Aries and Reliant, measure from floor to lowest part of bumper reinforcement at least 25" from either side of centerline. On Omni and Horizon 4-door models, measure to bottom of down turned edge of bumper next to end cap. On Omni and Horizon 2-door hatchback models, measure to lower surface of upper lip in fascia parking light opening. All measurements within ±1¼".

Riding Height Specifications

Application	Front Height
Cordoba, Diplomat, Imperial, LeBaron and Mirada	12½ ± ¼"
Gran Fury, Newport, New Yorker and St. Regis	16¾ ± ¼"
Aries and Reliant	15 ± 1¼"
Horizon and Omni 2-Door Hatchback	19⅝ ± 1¼"
4-Door Hatchback	15¼ ± 1¼"

CASTER & CAMBER

NOTE – *Caster on front wheel drive models is not adjustable. DO NOT modify components by heating or bending.*

All Models (Rear Wheel Drive) – 1) Check caster and camber settings and compare to specifications. If adjustment is required, clean and slightly loosen the caster/camber pivot bar nuts so that upper control arm may be repositioned in slots. *See Fig. 9.*

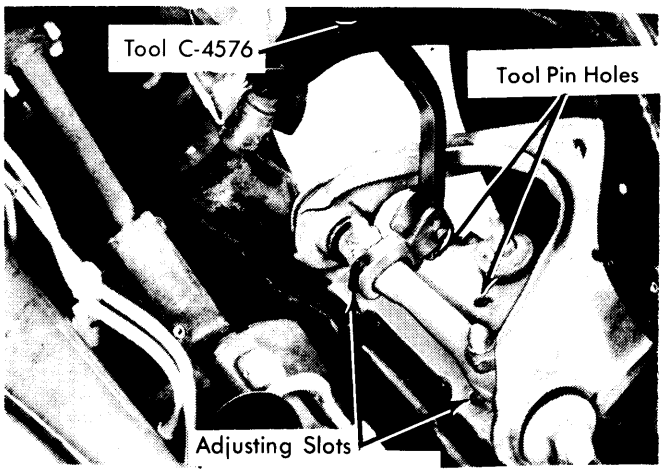

Fig. 9 Slotted Type Camber & Caster Adjustment

2) Place claw of adjusting tool C-4576 on pivot bar with pin of tool in tower or bracket holes. To adjust, move pivot bar in and out.

3) To set camber, move both ends of upper control rod in or out equal distances. To set caster, move one end of bar only.

4) To maintain camber, while adjusting caster, move ends of pivot bar the same distance, but in opposite directions (one end in, the other out).

CHRYSLER CORP. (Cont.)

5) Tighten pivot bar nuts to 150 ft. lbs. when adjustment is complete.

All Models (Front Wheel Drive) – 1) To adjust camber, loosen cam and through bolts on each side. *See Fig. 10.* Rotate upper cam and bolt to move top of wheel in or out to specified camber. Tighten bolts to 90 ft. lbs.

2) To adjust camber of rear wheels, add .010" shims between spindle mounting surface and spindle mounting plate. *See Fig. 10.*

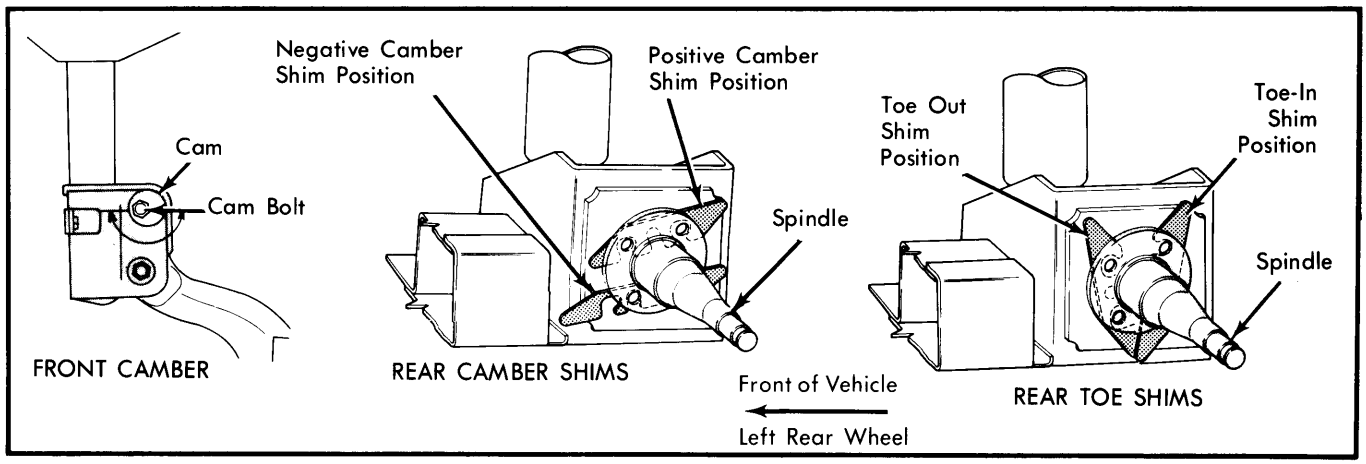

Fig. 10 Adjusting Front Camber, Rear Camber and Toe-In on Front Wheel Drive Models

FORD MOTOR CO.

TIRE INFLATION (COLD)

Inflate tires to manufacturer's specifications found on decal. Decal may be located on glove box door, rear edge of driver's door, or pillar on driver's side.

CASTER & CAMBER

Ford, Lincoln Town Car, Mark VI and Mercury – 1) If adjustment is required, install alignment tools (T79P-3000-A or equivalent) into frame holes and tighten tool hook nuts finger tight against upper arm inner shaft. Tighten nuts 1 additional hex flat (1/6 turn) and loosen shaft-to-frame attaching bolts enough to unload lock washers.

2) Tap bolt heads to assure loosening of lower assemblies. To increase positive caster, tighten tool front hook nut and/or loosen rear hook nut. To decrease caster, tighten rear hook nut and/or loosen front hook nut. To decrease positive camber, loosen hook nuts equally. To increase positive camber, tighten hook nuts equally.

3) When caster and camber are properly set, tighten upper inner shaft-to-frame attaching bolts to 120-140 ft. lbs. Check toe-in and steering wheel spoke position. Adjust as required.

All Other Models – Caster and camber are set at the factory and cannot be adjusted. Only toe-in is adjustable.

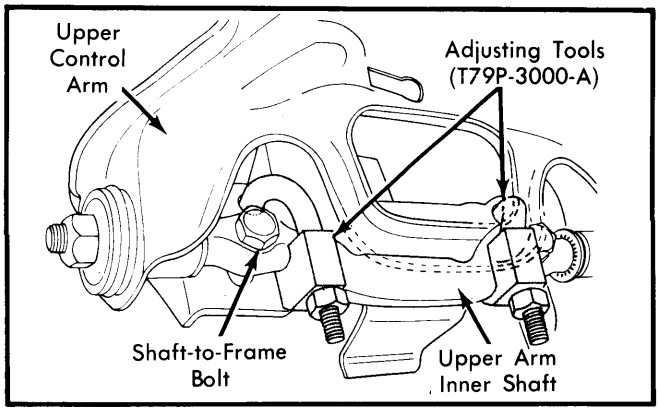

Fig. 11 Caster and Camber Adjustment (Ford, Lincoln Town Car, Mark VI and Mercury)

GENERAL MOTORS

BUICK

TIRE INFLATION (COLD)

Before checking wheel alignment, tires must be inflated to manufacturer's specifications listed on tire placard located on left front door.

RIDING HEIGHT

Vehicle must be on smooth level floor, fuel tank full, trunk empty and doors closed. Measure height from floor to top of wheel well opening. *See Fig. 12.* Height should be as specified ±3/8" and not more then 3/8" difference between left and right sides on Skylark. On all other models, height should be as specified ±1 1/4" with no more than 1" side-to-side difference. If not within specifications, it may be necessary to replace springs.

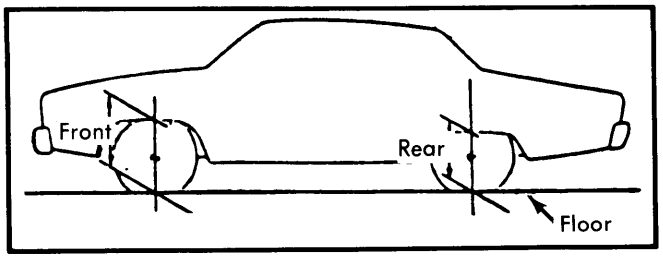

Fig. 12 Riding Height Measuring Points