

Wheel Alignment

GENERAL MOTORS (Cont.)

OLDSMOBILE TORONADO

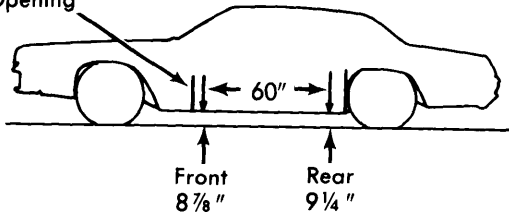
TIRE INFLATION (COLD)

Inflate tires to recommended pressures listed on glove box door.

RIDING HEIGHT

Check riding height with full gas tank, front seat rearward, tire pressure correct, doors closed and trunk empty. With vehicle on level floor, bounce several times and allow car to settle. Measure heights as shown in illustration from bottom of rocker molding to floor at points indicated. Measured heights may differ side to side $\pm \frac{1}{2}$ " , front to rear $\pm \frac{1}{2}$ " and have a front to rear slope + $\frac{3}{4}$ ". To adjust front carrying height, raise car at front crossmember to relieve strain on adjusting bolt. Lubricate adjusting bolt before attempting to change carrying height.

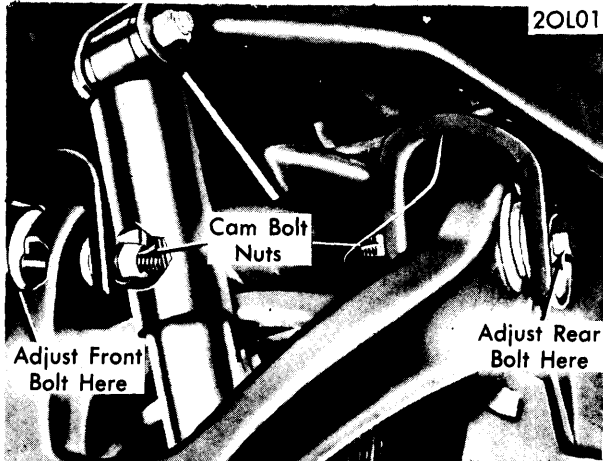
6" Rearward Of Door Opening



TORONADO RIDING HEIGHT

CAMBER

Adjustments are made by rotating eccentric cam assemblies at inner end of upper control arm front and rear legs. Loosen nuts on inboard side of upper control arm cam bolts, then turn both front and rear cams in same direction to adjust. Each cam bolt will correct $\frac{1}{2}$ of incorrect setting. Tighten cam bolts to 95 ft. lbs.



TORONADO CASTER & CAMBER ADJUSTING CAMS

CASTER

Loosen front and rear cam nuts while holding bolts with back-up wrench so camber is not changed. Turn front cam bolt so camber changes an amount equal to $\frac{1}{4}$ desired amount of caster change. Adjust rear cam in opposite direction so camber setting returns to its correct position. Tighten upper control arm cam nuts to 95 ft. lbs. **NOTE** - If not enough cam is available for adjustment, turn front cam so high part is up, and rear cam so high part is down, then set camber and caster.

PONTIAC

TIRE INFLATION (COLD)

Before attempting wheel alignment adjustments, tires must be inflated (cold) to specified pressures.

Model	Pressure (Lbs.)	
	Front	Rear
Catalina		
W/O A.I.R., 455", H.D. Susp., or R.T.S.	28	32
A/C, 455", H.D. Susp. or R.T.S.	25	28
Bonneville & Grand Ville		
A/C, 455", H.D. Susp. or R.T.S.	25	28
Catalina & Grand Ville Sta. Wag.		
W/O L78-15 or LR78-15 Tires	24	32
L78-15 or LR78-15 Tires	24	36
LeMans & Grand Am		
W/O R.T.S., 455" 4-Bbl. or A/C	28	30
A/C or 455" 4-Bbl.	26	28
R.T.S. or Radial Tires	27	28
Firebird		
W/O R.T.S. or A/C	26	28
R.T.S. or A/C	24	28
Ventura		
W/O Radial Tires or R.T.S.	27	31
Radial Tires or R.T.S.	24	28
Grand Prix	26	30

RIDING HEIGHT

With car at curb weight and on a level floor, bounce car several times and allow to settle. Measure heights as shown in illustration. Specifications are for new cars, most cars in use will average up to $\frac{1}{2}$ " less than new cars.

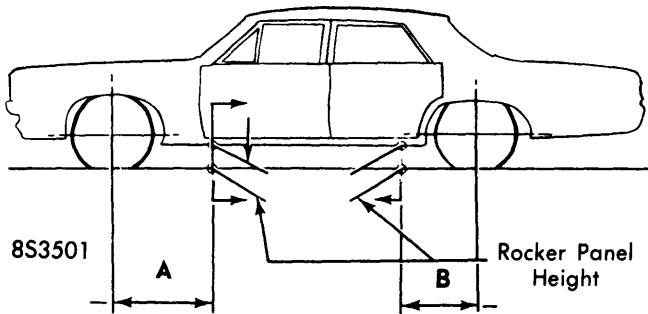
Riding Height Specifications

Model	Front	Rear
Catalina, Bonneville & Grand Ville		
Station Wagons	10.15"	10.25"
All Others	9.50"	9.20"
LeMans & Grand Am		
Station Wagons	10.70"	10.70"
Sedan	9.72"	9.35"
Coupes	9.72"	9.42"
Grand Prix	10.22"	9.92"
Firebird		
All Models	8.07"	7.61"
Ventura		
All Models	9.70"	9.69"

Riding Height Measurement Points

Model	Dimension "A"	Dimension "B"
Catalina, Bonneville & Grand Ville		
Station Wagons	38.00"	29.00"
All Others	38.00"	25.50"
LeMans & Grand Am		
Wagon & Sedan	30.00"	20.00"
Coupes	30.00"	27.00"
Grand Prix	34.00"	27.00"
Firebird		
All Models	36.30"	16.70"
Ventura		
All Models	33.00"	23.00"

GENERAL MOTORS (Cont.)



PONTIAC RIDING HEIGHT

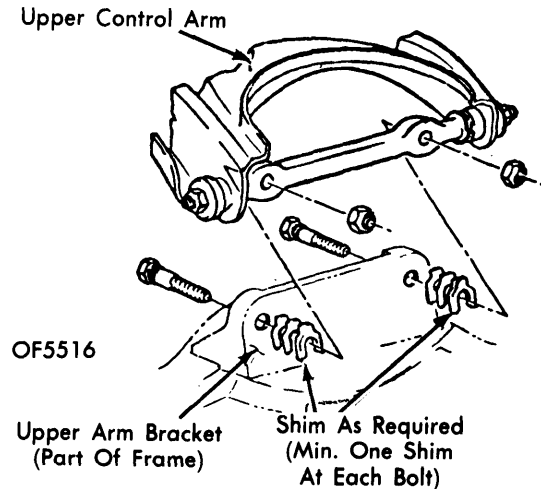
CASTER

To adjust caster, raise car to remove weight from front wheel and loosen control arm shaft-to-frame bolts. To decrease caster, add shims to front bolt or remove shims from rear bolt. To increase caster, remove shims from front bolt or add shims to rear bolt. Tighten bolts when adjustments are completed. **NOTE** — Shim pack should not exceed $\frac{3}{4}$ " thickness or have difference greater than $\frac{3}{8}$ " between front and rear shim packs.

CAMBER

To adjust camber, raise car to remove weight from front wheel and loosen control arm shaft-to-frame bolts. To increase camber, remove shims from both front and rear bolts. To

decrease camber, add shims to front and rear bolts. By adding or removing equal thickness of shims from front and rear bolts, camber can be changed without changing caster. Tighten bolts when adjustments are completed. **NOTE** — Shim pack should not exceed $\frac{3}{4}$ " thickness or have difference greater than $\frac{3}{8}$ " between front and rear shim packs.



PONTIAC CASTER & CAMBER ADJUSTING SHIMS

JEEP CORP.

TIRE INFLATION (COLD)

Inflate tires to manufacturers specifications, found on tire inflation placard attached to glove box door.

CASTER

If caster is not within specifications, adjust by inserting caster shims between axle pad and springs until specifications are met.

CAMBER

Camber is not adjustable. Check for damaged parts and replace as necessary. **NOTE** — Do not attempt to straighten bent parts.