

# Pontiac Fiero

## WHEEL ALIGNMENT SPECIFICATIONS

Year	Model	Caster Angle		Max. Cross Castor	Camber Angle		Max. Cross Camber	Toe-In	Steering Wheel Angle	Thrust Angle
		Limits	Desired		Limits	Desired				
1984-86	All Front	+3° to +7° [2]	+5°	2°	-.3° to +1.3°	+5°	1.6°	0° [4]	+/- 5°	-----
	All Rear	-----	-----	-----	-1.5° to -.5°	-1°	1.6°	0° [5]	-----	0° +/- .15°
1987	All Front	+3° to +7° [2]	+5°	2°	-.3° to +1.3°	+5°	1.6°	0° [4]	+/- 5°	-----
	All Rear	-----	-----	-----	-1.5° to -.5°	-1°	1.6°	0° [5]	-----	0° +/- .15°
1988	[6]	+2.5° to +3.5°	+3°	0.75°	-.5° to +.5°	0°	0.75°	+0.3°[8]	+/- 5°	-----
	[7]	+4.5° to +5.5°	+5°	0.75°	-.5° to +.5°	0°	0.75°	+0.3°[8]	+/- 5°	-----
	All Rear	-----	-----	-----	-1.5° to -.5°	-1°	0.75°	+0.15°[8]	-----	0° +/- .15°

### Notes:

[2] --Left & right side should be equal within 2°.

[4] --Total toe, 0° +/- 0.2° (Per TSB 87-3-8)

[5] --**Per wheel**, 0° +/- 0.1° (Per TSB 87-3-10).

[6] --Exc. GT & Formula Front wheel alignment.

[7] --GT & Formula Front wheel alignment.

[8] --Total toe, +0.3° +/- 0.2° (Per TSB 88-3-11 Ignore Per Wheel on the Front)

[9] --**Per wheel**, +0.15° +/- 0.1° (Per TSB 88-3-11)

Thrust Angle for 88 is not listed in Service Manual or TSB. 0° is Desired for any vehicle.

**This table lists toe-in with adjustment for TSBs included on the next 3 pages.**

Version: 09/09/13

Reason: Just to make Toe and Notes easier to read.

## Vehicle: All Technical Service Bulletins

### Rear Alignment Specification Change

Number 87-3-10 Date 3/87

Subject: REAR ALIGNMENT SPECIFICATION CHANGE  
1984-87 FIERO MODELS

The rear suspension toe specification for the 1987 Fiero has changed from:

.15 Degree +/- .1 Degree (Per Wheel) to 0 Degree +/- .1 Degree (Per Wheel)

This new specification is also applicable to 1984-86 Fiero models.

1987 Alignment Specifications

Number 87-3-8 Date 1/87  
Subject: 1987 ALIGNMENT SPECIFICATIONS

ALL 1987 MODELS

1987 PONTIAC MODEL ALIGNMENT SPECIFICATIONS

	Castor	Max. Cross		Camber	Total Toe	Steering Wheel Angle	Thrust Angle
		Castor	Camber				
<u>REAR WHEEL DRIVE (RWD)</u>							
Safari Wagon	+2.8° ± 1°	1°	+ .8° ± .8°	1°	+ .1° ± .2°	± 2.5°	
Firebird	+5° ± .5°	.8°	+1° ± .5°	.7°	+ .1° ± .2°	± 5°	
Grand Prix	+2.8° ± 1°	1°	+ .5° ± .8°	1°	+ .1° ± .2°	± 5°	
T-1000	+4.7° ± 2°	2°	+ .2° ± .7°	1.4°	+ .12° ± .16°	± 5°	
Fiero	+5° ± 2°	2°	+ .5° ± .8°	1.6°	0° ± .2°	± 5°	0° ± .15°
Rear			-1° ± .5°		0° ± .2°		
<u>FRONT WHEEL DRIVE (FWD)</u>							
6000	+1.7° ± 1°	2°	0° ± .5°	1°	0° ± .2°	± 5°	
Bonneville	+2.5° ± .5°	.75°	+ .2° ± .5°	.75°	0° ± .2°	± 3°	0° ± .1°
Rear			-.3° ± .5°		+ .1° ± .2°		
J-2000	+1.7° ± 1°	1°	+ .8° ± .6°	1°	0° ± .2°	± 5°	
J-2000 with 60 Series tires	+1.7° ± 1°	1°	+ .8° ± .6°	1°	-.12° ± .2°	± 5°	

NOTES

- o All specifications, including toe, are in degrees.
- o All toe specifications are total (sum) toe with appropriate steering wheel or thrust angle requirements. (Individual toe may be obtained by dividing total toe in half. Example: .1° ± .2° total toe = .05° ± .1° individual toe.)
- o Positive toe is toe-in.
- o Cross caster equals left caster minus right caster.
- o Cross camber equals left camber minus right camber.
- o Thrust angle is the angle between the path the rear wheels will take and the car's centerline.

Alignment specifications for all 1987 models are being published here due to some recent specification changes. Many of the recent changes have been reductions in toe for improved tire wear.

Four-wheel alignment is recommended whenever rear suspension is adjustable. Four-wheel alignment equipment, such as that in the GM dealer equipment catalog, is recommended. Alignment equipment must be calibrated on a regular basis.

## Alignment - Revised Specifications

Bulletin Number: 88-3-11

Reference Number: 833102

Publish Date: 1/88

Subject: SERVICE MANUAL UPDATE REVISED WHEEL ALIGNMENT SPECIFICATIONS

Models

Affected: 1988 FIERO

		SPECIFICATIONS FOR DIAGNOSIS FOR WARRANTY REPAIRS OR CUSTOMER PAID SERVICE (SERVICE CHECKING)	SERVICE SETTING
TOE	FRONT DEG (PER WHEEL)	$0.3^{\circ} \pm 0.2^{\circ}$ TOTAL	$0.3^{\circ}$ TOTAL
CAMBER	FRONT	$0^{\circ} \pm .5^{\circ}$	$0^{\circ}$
CASTER	FRONT (MANUAL STRNG)	$3.0^{\circ} \pm .5^{\circ}$	$3.0^{\circ}$
CASTER	FRONT (GT & FORMULA)	$5.0^{\circ} \pm .5^{\circ}$	$5.0^{\circ}$
CAMBER	REAR	$-1.0^{\circ} \pm .5^{\circ}$	$-1.0^{\circ} \pm .5^{\circ}$
TOE	REAR DEG (PER WHEEL)	$.15^{\circ} \pm .1^{\circ}$	$.15^{\circ} \pm .1^{\circ}$

The 1988 Fiero Service Manual Section 3A, Figure 5, Wheel Alignment Specifications Revised. See Illustration..

- ^ Vehicle must be jounced three times before checking alignment, to eliminate false geometry readings.
- ^ Front toe adjustment to be set separately per wheel, with steering wheel held in "straight-ahead" position within +/- 5.0~.
- ^ Front & rear cross car camber must be within 0.75~.
- ^ Front cross car caster must be within 0.75~.
- ^ Tie rod boot must not be twisted and must be seated in tie rod groove.