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2008 PONTIAC SOLSTICE

New for 2008

- OnStar standard on all models
- XM Satellite Radio standard
- Driver information center (DIC) standard
- MP3-compatible AM/FM stereo with CD player and iPod-ready input jack standard on all models
- StabiliTrak is now available on base model (with ABS) and standard on GXP
- Premium acoustic headliner standard on all models
- New leather seating interior trim scheme: Ebony/Sand
- Tire pressure monitoring system (TPMS) standard on all models
- Two new exterior colors: “Sly” Dark Steel Gray Metallic and “Brazen” Inferno Orange Metallic

Model Lineup

	Engines		Transmissions	
	2.4L Ecotec VVT four-cylinder	2.0L Ecotec DI Turbo VVT four cylinder	5-speed manual	5-speed automatic
Solstice	s	–	s	o
GXP	–	s	s	o

Key

Standard s
Optional o
Not Available –

UPGRADES, POWER AND PERFORMANCE COMBINE TO FORM THE 2008 PONTIAC SOLSTICE

Pontiac has taken what customers love about the popular and powerful Solstice roadster and upgraded it for 2008 with new technologies and many standard and

optional features. With two Ecotec compact powerplants and a choice between a standard Aisin five-speed close-ratio manual transmission and an optional five-speed automatic, the Solstice and Solstice GXP are true roadsters.

Features galore

The 2008 Solstice kicks up the excitement factor with new standard features that were once options, turning up customers' appreciation for the vehicle. New standard equipment for the base model and GXP include a premium acoustic headliner, an enhanced sound system with an MP3-compatible stereo and an iPod jack, XM Satellite Radio, OnStar and GM's driver information center, which offers important information such as current fuel economy, fuel range, oil life and warning indicators. Also standard for 2008 is GM's tire pressure monitoring system (TPMS), which alerts drivers to changes in tire pressure that could lead to premature tire failure or a potentially dangerous and expensive breakdown. The system uses sensors mounted in each wheel to monitor tire pressure in real-time.

Additional standard equipment for both models includes two-way power driver seat height adjuster; racing-inspired sport bucket seats with convenient seat cushion and seatback storage; leather-wrapped manual shift knob, AM/FM and CD stereo with six speakers; rear window defogger; rake-adjustable steering wheel; dual-stage frontal air bags and easy-to-operate cloth convertible top with glass backlight.

Several packages are available that allow customers to tailor their Solstice to their driving needs:

Convenience package – steering-wheel mounted cruise control, enhanced DIC controls and fog lamps

Preferred Package – power locks, mirrors and windows, along with remote keyless entry

Premium package – leather seating surfaces (Ebony or Ebony/Sand two-tone), leather-wrapped steering wheel and steering wheel radio controls

GXP particulars

For those wanting to push the driving envelope beyond the 177 horses offered by the base model, the Solstice GXP features a 2.0-liter turbo engine that kicks out 260 horsepower (194 kW). The Solstice GXP has been one of Pontiac's most popular vehicles since its introduction, and is outfitted with high-polished stainless steel dual exhaust outlets, and front and rear fascia extensions. Inside, the standard cloth or available leather seats are embroidered with a choice of gray or red accent stitching. Other standard interior appointments include brushed aluminum sill plates and embroidered floor mats.

Customization and convenience

Each of the nine colors in the Solstice exterior color palette is inspired by a different personality trait. New exterior colors available for 2008 include a new "Sly" color (Dark Steel Gray Metallic) and "Brazen" (Inferno Orange Metallic) available as a premium exterior color.

XM Satellite Radio has a wide variety of programming to please any driver. XM's quality digital sound will be enhanced by a new premium acoustic headliner that is now standard on all models. The new headliner also offers a premium interior appearance.

The peace of mind and convenience of OnStar is now standard on all Solstice models. OnStar's digital equipment includes enhanced hands-free voice recognition capabilities including more intuitive continuous digit dialing and improved voice recognition accuracy. OnStar Turn-by-Turn Navigation, a fully integrated GPS navigation system, is a popular available feature that allows customers to talk to a live advisor, who in turn sends complete step-by-step directions to the vehicle through their OnStar system.

OnStar also includes OnStar Vehicle Diagnostics and the General Motors Advanced Automatic Crash Notification (AACN) system, making crash data available to the participating 911 centers to help dispatch the appropriate live-saving personnel and equipment to crash scenes quicker.

The tire pressure monitoring system now standard on the base and GXP models tracks tire wear and pressure by helping drivers avoid tire failure and potentially dangerous, costly breakdowns.

Balanced performance

Solstice and Solstice GXP feature rear-wheel drive, four-wheel independent SLA suspensions and 18-inch aluminum alloy wheels. Superior handling technologies such as GM's StabiliTrak electronic stability control system, now standard on the GXP, helps drivers maintain control during sudden maneuvers or in low-traction conditions by using a comprehensive series of sensors to measure acceleration, deceleration, steering angle and yaw rate. The system automatically controls the vehicle to help maintain the driver's intended path when a measurable deviation from the intended course is detected.

Solstice uses independent short/long arm-type suspensions at the front and rear to give it a responsive, road-gripping driving feel. Other driver-focused features include:

- Bilstein coil-over monotube shocks at all corners
- Rack-and-pinion steering (power assisted)
- Eighteen-inch aluminum alloy wheels
- P245/45R18 all-season tires; P245/45R18-96W blackwall performance tires are standard on the GXP
- Four-wheel disc brakes
- Available limited-slip rear differential (standard on the GXP)
- Cockpit-style instrument panel with motorcycle-inspired gauges
- Short-throw shifter

The Solstice's four-wheel disc brakes consist of 11.7-inch (297 mm) ventilated front rotors and 10.9-inch (277 mm) rear rotors, which combine to provide confident braking capability. Anti-lock brakes (with dynamic rear proportioning) are available.

Energized engines

The Solstice GXP's Ecotec 2.0-liter turbo engine produces 260 horsepower (194 kW) at 5,300 rpm and 260 lb.-ft. (351 Nm) from 2,500 to 5,250 rpm, and is one of GM's first direct-injection offerings in North America. Gasoline direct-injection technology helps the engine produce more power without sacrificing fuel economy.

The base Solstice is powered by a 2.4L Ecotec four-cylinder engine producing 173 hp (129 kW) and 167 lb.-ft. (226 Nm) of torque. To comply with more stringent emission and diagnostic regulations the 2.4L equipped Solstice will be receiving a new catalytic converter system with slightly elevated exhaust system backpressure.

Both Ecotec engines share a number of characteristics including:

- Dual overhead camshafts (DOHC) and four valves per cylinder
- Twin counter-rotating balance shafts
- Low-friction, roller-finger follower valvetrain with hydraulic lash adjusters
- Low-maintenance chain-drive for the camshafts
- Extremely compact dimensions and low mass
- Direct mounting of all accessories to the engine structure to eliminate common sources of noise, vibration and harshness
- Full circle transmission attachment is more rigid than most 4-cylinder powertrains for reduced noise and vibration
- GM Oil Life System for optimum oil change frequency (included with optional driver information system)
- No routine maintenance apart from oil/oil filter changes
- Innovative cast-in oil filter housing eliminates crawling under the car to perform oil changes. The design also eliminates throwaway oil-filter “cans” that retain used oil that typically end up in landfills

Solstice models equipped with the five-speed manual transmission have a new torque beam to reduce noise, vibration and harshness by isolating noise associated with abrupt torque transfer away from the passenger compartment. The system was originally developed specifically for the added power and torque outputs of the 2.0L turbo, and then added to all manual transmission models later in the 2007 model year.

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SPECIFICATIONS

(See GM of Canada section for Canadian product differences)

Overview

Models:	Pontiac Solstice, Solstice GXP
Body style / driveline:	2-passenger, 2-door roadster ; front-engine, rear-wheel drive
Construction:	welded galvanized steel enclosed central tunnel and hydroformed tube
EPA vehicle class:	Two-seater
Manufacturing location:	Wilmington, Del.
Key competitors:	base: Mazda Miata, Honda S2000, Toyota MR2 Spyder GXP: Mazda MX-5, BMW Z4, Nissan 350Z, Porsche Boxster, Audi TT

Engines

	Ecotec 2.4L VVT	Ecotec 2.0L DI Turbo VVT
Type:	2.4L DOHC I-4	2.0L DOHC I-4
Displacement (cu in / cc):	145 / 2384	122 / 1998
Bore & stroke (in / mm):	3.46 x 3.85 / 88 x 98	3.39 x 3.39 / 86 x 86
Block material:	cast aluminum	cast aluminum

Cylinder head material:	cast aluminum	cast aluminum
Valvetrain:	DOHC, 4 valves per cylinder; variable valve timing	DOHC, 4 valves per cylinder; dual continuous variable valve timing
Ignition system:	electronic direct	Individual coil-on-plug
Fuel delivery:	sequential multi-port fuel injection with high-pressure injectors and electronic throttle control	spark ignition direct injection (SIDI) with variable high-pressure rail and electronic throttle control
Compression ratio:	10.4:1	9.2:1
Horsepower (hp / kW @ rpm):	173 / 129 @ 5800*	260 / 194 @ 5300*
Torque (lb-ft / Nm @ rpm):	167 / 226 @ 4500*	260 / 353 @ 2500-5250*
Recommended fuel:	premium recommended but not required	premium recommended but not required
Max engine speed (fuel cut-off):	7000 rpm	6350 rpm
Emissions controls:	close-coupled catalytic converters; Quick-Sync 24x ignition system; returnless fuel rail; fast-response O ₂ sensor	close-coupled catalytic converters, Quick-Sync 58x ignition system; returnless fuel rail; wide-range O ₂ sensor
EPA estimated fuel economy (city / hwy):	19 / 24 (automatic) 19 / 25 (manual)	19 / 26 (automatic) 19 / 28 (manual)

Transmission

Type:	5-spd man (MA5)	5L40 5-spd auto
Gear ratios: (:1):		
First:	3.75	3.42
Second:	2.26	2.21
Third:	1.51	1.6

Fourth:	1.00	1.00
Fifth:	0.73	0.75
Reverse:	3.67	3.02
Final drive ratio:	base: 3.91:1 GXP: 3.73:1	base: 3.91:1 GXP: 3.73:1

Chassis/Suspension

Front:	base: independent short/long arm, with hollow 27.2 x 4.5 mm stabilizer bar GXP: independent short/long arm, with hollow 33.3 x 4.5 mm stabilizer bar
Rear:	base: independent short/long arm, with hollow 24.2 x 3.0 mm stabilizer bar GXP: independent short/long arm, with hollow 25.4 x 3.0 mm stabilizer bar
Steering type:	hydraulic power-assisted rack-and-pinion
Steering ratio:	16.4:1
Steering wheel turns, lock-to-lock:	2.7
Turning circle, curb-to-curb (ft / m):	34.8 / 10.6

Brakes

Type:	std: four-wheel disc; opt: ABS with dynamic rear proportioning
Rotor diameter x thickness (in / mm):	front: 11.7 x 1 / 297 x 25, vented
	rear: 10.9 x 0.5 / 277 x 13, solid
Swept area (sq in / cc)	front: 243 / 1570
	rear: 189 / 1221

Wheels/Tires

Wheel size and type:	base std: 18-inch x 8-inch five-spoke painted alloy; Base opt: 18-inch x 8-inch five-spoke chromed aluminum and polished aluminum alloy GXP std: 18-inch x 8-inch five-spoke polished aluminum alloy or chromed aluminum
Tires:	base: P245/45R18 Goodyear Eagle RSA 96V all-season GXP: P245/45R18 Goodyear Eagle F1 GS2 96W high-performance

Dimensions (Solstice and GXP)

Exterior

Wheelbase (in / mm):	95.1 / 2415
Overall length (in / mm):	157.2 / 3992
Overall width (in / mm):	71.3 / 1810
Overall height (in / mm):	50.6 / 1284
Track (in / mm):	front: 60.7 / 1543
	rear: 61.4 / 1560
Curb weight, base (lb / kg):	Base: 2899 / 1315 GXP: 2987 / 1355
Weight distribution (front / rear):	approx. 50 / 50

Interior

Seating capacity:	2
Headroom (in / mm):	38.4 / 975
Legroom (in / mm):	42.8 / 1086
Shoulder room (in / mm):	52.4 / 1332
Hip room (in / mm):	50.6 / 1284

Capacities

Interior volume (cu ft / L):	55/4 / 1569
Passenger Volume (cu ft / L)	50 / 1416
Cargo volume (cu ft / L):	5.4 / 153 (top up); 2.1 / 60 (top down)
Fuel tank (gal / L):	13.6 / 51.5
Engine oil (qt / L):	5 / 4.7
Cooling system (qt / L):	2.4L man: 8.9 / 8.4 2.4L auto: 8.7 / 8.2 2.0L man: 9.5 / 9.0 2.0L auto: 9.3 / 8.8

*SAE certified. A new voluntary power and torque certification procedure developed by the SAE Engine Test Code committee was approved March 31, 2005. This procedure (J2723) ensures fair, accurate ratings for horsepower and torque by allowing manufacturers to certify their engines through third-party witness testing. GM was the first auto manufacturer to begin using the procedure and expects to use it for all newly rated engines in the future.

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