

## 2000 Nissan Sentra



### **All-New, Larger, More Powerful 2000 Nissan Sentra Shows Design Flexibility with Models Ranging From "Green to Mean"**

An all-new, larger and more powerful 2000 Nissan Sentra made its bold entrance at the North American International Auto Show in Detroit this January with a range of innovative designs ranging from a zero evaporative emissions Sentra CA (Clean Air) model to the sophisticated Sentra SE. Also shown at Sentra's world debut press conference was a specially modified "tuner" version.

The new four-door sedan is the first Sentra designed exclusively for North America - as well as the first North American Nissan to be produced as part of Nissan's new vehicle platform and component strategy plan.

"The 2000 Sentra is quite revolutionary in its evolutionary process," said Jed Connelly, vice president and general manager, Nissan Division, Nissan North America, Inc. "It is a true international design, with all the benefits of a new-generation global sedan platform, created exclusively for our market."

The 2000 Sentra features an exterior styled at Nissan Design International, Inc. (NDI) in La Jolla, Calif., an interior inspired by Nissan Design Europe (NDE) in Geretsried, Germany, and was engineered at Nissan Technical Center (NTC) in Japan and Nissan Research and Development (NRD) in California, Michigan and Arizona. The new Sentra will be manufactured by Nissan Mexicana (NISMEX) in Aguascalientes, Mexico.

The new Sentra goes on sale in early spring at Nissan retailers nationwide. It will be available in three trim levels, XE, GXE and SE, with a choice of an all-new 1.8-liter or refined 2.0-liter 4-cylinder engines. The 2000 Sentra also will be available in California only in a limited productio Sentra CA model - the first gasoline-fueled vehicle to meet California Air Resources Board (CARB) super ultra low emissions vehicle (SULEV) standards and obtain zero emission credits.

### **Global Platform, Designed and Built in North America**

Two goals drove the initial development of the all-new 2000 Nissan Sentra: First, reduce cost dramatically by utilizing advanced technologies such as platform sharing and high strength Zone Body construction, and secondly, invest the savings back into the vehicle - creating a stylish and comfortable new generation sedan that exceeds customer expectations of performance, quality and value.

Through use of a global platform (Nissan defines platform as the combination of floor panel and functional components such as the engine, transmission and chassis components attached to the floor panel which determine the basic performance of the vehicle), Sentra development time was reduced. Along with time and cost reductions in the areas of research and development, other savings were realized under the platform strategy in areas such as capital investment expense, die production, production trial vehicle development and supplier development costs. Future platform sharing also will improve quality and reduce assembly time by as much as 20 percent through adoption of modular assembly techniques.

Currently, the new Sentra shares its global platform with six other models in Europe and Japan, with more variations likely to come in the future.

"The Sentra platform uses advanced two-zone body technology to achieve a high level of frontal crashworthiness along with enhanced levels of handling, stability, ride comfort and quietness that we believe exceed the norms of the compact sedan class," said Connelly.

The two-zone concept offers one energy absorbing crushable zone, including newly developed hexagonal front side member sections, and a safety restraint zone, which acts as a safety cell to protect occupants. The occupant friendly upper interior has been designed to help reduce the impact forces to an occupant's head during a collision.

Using the global platform as an engineering base, Nissan Research and Development in Farmington Hills completed the vehicle development to meet North American customer needs and requirements and coordinated styling, interior and manufacturing elements.

"Nissan's new platform strategy has clearly allowed us to have the best of both worlds - the development time, cost and quality improvements of a world-class platform with the unique look, feel and performance tuning for our home market," said Connelly. "The strategy allows us the freedom and room to create models as varied as the Sentra CA and the Sentra SE for the diverse needs of the U.S. market, rather than just accepting vehicles designed for other world markets."

### **Contemporary Exterior Design**

Nissan Design International, designers of the popular 2000 Nissan Xterra sport utility vehicle and 2000 Maxima sedan, wanted to take the styling of the 2000 Sentra in a new direction, away from its previous economy focus into a more Maxima-like arena - stylish and comfortable, smart, assertive and self-confident.

"This was our first crack at an 'entry level' product so the first thing we did was eliminate 'entry level' thinking," said Jerry Hirshberg, president, NDI. "Our aim was to design a car with its own character that happens to be in the right price range for a lot of people. It's robust, rounded and just a little sassy."

The overall length was stretched 6.5 inches to 177.5 inches and the body widened by 0.8 inches to 67.3 inches. Height also was raised 1.1 inches to 55.6 inches. The

front of the new Sentra features an expressive hood with subtle surface forms, a large, functional bumper and fascia and integrated headlights and grille. The sporty profile is marked by a solid, structural waist, low hood line and raised rear deck and a stretched and chiseled character line running front to rear. Strong rear fenders blend into a wide deck with an arching character line and easily accessible trunk space.

The new Sentra offers a 30 percent improvement in torsional rigidity over the previous generation Sentra, due in part to an additional (third) floor pan crossmember. Roof sides, B-pillars and outer body sill panels have been strengthened, and the front side crossmembers (with hexagonal cross-sections) are S-shaped for improved crash performance. Expandable foam has been utilized in body pillars and 56 enhancements have been applied throughout the new Sentra for a marked reduction in noise, vibration and harshness (NVH).

The 2000 Sentra is offered in five new colors among eight total colors.

### **Assertive Interior Design**

In addition to creating the exterior styling, NDI coordinated the final execution of the interior concept developed by Nissan Design Europe. NDE sought to give passengers a comfortable, open feeling, using "appropriate technology" that reflects versatility and practicality with high quality materials, textures and shapes.

"Like the exterior, the interior of the new Sentra has grown up - it's fun but functional," said Hirshberg. "There's an intelligence to the design with a place for everything you really need, yet nothing interferes with usable headroom or legroom space."

The 5-passenger Sentra continues to offer many unique features not commonly found in other sedans in its class, including excellent front and rear headroom and legroom. Total interior volume has been increased 2.2 cubic feet to 100.1 cubic feet (88.5 cubic feet passenger compartment/11.6 cubic feet trunk) moving it up into the EPA compact classification, with interior dimensions revised to accommodate both larger people as well as a greater range of sizes. Headroom has been increased 0.8 inches in front and 0.5 inches in the rear.

The driver's seat now has 6-way adjustments, and the hip point was raised 20 millimeters and expanded 10 millimeters for easier entry and exit. The seat design provides an open feeling through use of a large, one-piece cut pattern around the shoulder area. A 60/40 split fold-down rear seat with locking seat backs is available on the GXE and standard on SE. Three types of cloth are available, depending on model and trim levels, in three colors.

Total storage capacity has been doubled and storage pockets include a covered box on the top of the instrument panel and a tray covering the front side sill crossmember. Front door pockets include a holder for 20-ounce water or soft drink bottles. A tray is provided next to the parking brake lever to hold small items.

The instrument panel features a new gauge cluster design with larger, easier-to-read figures for enhanced visibility and instant understanding. The SE with Performance Package offers titanium tinted gauges (like on the Maxima SE), as well as a leather-wrapped steering wheel.

The 2000 Sentra also offers a wide array of convenience features ranging from power door locks and windows to state-of-the-art seven-speaker, 150-watt AM/FM/CD audio systems with available in-dash 6-disc CD changer.

### **Refined Engines and Breakthrough Emissions Technology**

The 2000 Sentra is offered with two advanced powerplants, a responsive 1.8-liter 4-cylinder (replacing the previous 1.6-liter) for XE, GXE and CA models and a potent 2.0-liter 4-cylinder for Sentra SE.

The all-new 1.8-liter DOHC engine delivers 126 horsepower at 6,000 rpm (versus the previous 115 horsepower) and 129 ft-lbs of torque at 2,400 rpm (versus the previous engine's 108 ft-lbs at 4,000 rpm). The new engine features a four millimeter bore increase, new single-type timing chain, new direct ignition system (similar to Maxima), variable valve timing, redesigned exhaust manifold, microfinished crankshaft and camshafts, 32-bit engine control module and a special swirl control valve which increases air/fuel mixing during engine warm-up to improve combustion.

The 1.8-liter Sentra engine delivers 27/35 mpg City/Highway for the 5-speed manual transmission and 26/33 mpg City/Highway with the 4-speed automatic transmission. The 1.8-liter engine meets the California Air Resources Board's stringent requirements for Low Emission Vehicles (LEV) and will be available in all 50 states. Both engines utilize platinum-tipped spark plugs with 100,000-mile maintenance intervals.

The advanced Sentra CA model is the first gasoline-fueled vehicle to meet California Air Resources Board (CARB) super ultra low emission vehicle standards (SULEV) with zero evaporative emissions. The Sentra CA received CARB certification in November after stringent testing, meeting requirements in three critical areas: zero evaporative emissions, SULEV tailpipe emissions levels and OBD II (On-Board Diagnostic II) and 150,000-mile durability emissions system requirements.

A number of key technologies combine to make the Sentra CA possible: double-wall exhaust manifolds, a new combustion control sensor, quicker catalyst warm-up (three 3-way catalysts are utilized in the emissions system), new hydrocarbon trap catalysts, a non-return fuel system and use of a special electronically controlled swirl control valve that reduces hydrocarbon emissions in cold and warm start situations.

In addition, the radiators of all Sentra CAs are coated with Engelhard Corp.'s PremAir™. As ozone-laden air passes over the radiator, the PremAir coating converts ozone molecules into oxygen. In effect, the air the Sentra CA leaves in its wake should be cleaner than the air in front of the vehicle.

The sporty Sentra SE is powered by Nissan's proven 2.0-liter DOHC 4-cylinder all-aluminum engine, refined for 2000 with increased power and torque and adopting Nissan's innovative variable capacity muffler system, first introduced on the 2000 Maxima. The 2.0-liter powerplant produces 145 horsepower at 6,400 rpm (increased from 140 horsepower) and 136 ft-lbs of torque at 4,800 rpm (up from 132 ft-lbs).

Refinements include a lengthened intake manifold, re-profiled intake camshaft, lighter weight roller-type rocker arms, lighter weight crankshaft, new piston rings, modified swirl control valve and double-tipped platinum spark plugs with 100,000-mile service intervals.

The new variable capacity muffler utilizes a special flap valve (using high temperature aerospace spring technology and materials), which opens at 2,000 rpm and above - reducing exhaust system backpressure and increasing horsepower.

EPA fuel economy for the 2.0-liter engine are 24/31 mpg City/Highway for the manual transmission and 24/30 mpg City/Highway for the automatic.

A 5-speed manual transmission is standard on all models, except the Sentra CA. Clutch activation has been improved through use of hydraulic control (instead of cable) and more than 25 modifications have been made - including use of first and second gear double-cone synchronizers - for smoother, stronger performance. A viscous limited-slip differential is available with SE models equipped with manual transmissions and the optional Performance Package.

A 4-speed electronically controlled automatic transmission is standard on the Sentra CA and optionally available with XE, GXE and SE models. It features a modified clutch pack and revised shift schedule to provide smoother performance and a newly designed torque converter to enhance performance and fuel economy.

### **Stable, Comfortable Ride and Handling**

Sentra's excellent road manners have been enhanced with a new front subframe, softer bushings, refined steering feel and stiffer body construction. The suspension continues to utilize a front independent MacPherson strut setup combined with Nissan's innovative rear Multi-Link Beam<sup>®</sup> design.

"The 2000 Sentra drives like a more expensive, larger class vehicle," said Connelly. "It has a strong sense of the spirit of Nissan - with 'pleasure paybacks' to the driver through road feel, the sound of the engine and the solidity of the body."

The rear Multi-Link Beam suspension, which provides more predictable handling and less road noise than traditional designs, uses a larger section lateral link to improve performance and noise isolation. Rear stabilizer diameter has been increased. In front, the new subframe allows use of softer bushings for improved ride comfort and a shorter length stabilizer bar improves dynamic performance. Sentra SE models utilize a front strut tower brace for reduced body lean, along with stiffer suspension tuning for enhanced cornering performance.

Braking is provided by a power-assisted front disc/rear drum braking system on XE, GXE and CA models and 4-wheel discs on SE. A 4-channel/4-sensor Anti-lock Braking System (ABS) is optional on GXE and SE models.

Steering is provided by an engine-speed-sensitive power-assisted rack-and-pinion system with a redesigned steering rack mount providing reduced lateral movement and enhanced steering response and feel.

Sentra XE and GXE offer standard 14-inch wheels and tires, with 15-inch alloy wheels and tires standard on CA and SE models (optional on GXE). Sporty 16-inch aluminum alloy wheels with P195/55R16 tires are optionally available on Sentra SE.

### **Safety**

Along with enhanced impact performance from the new global platform design, the 2000 Sentra features an extensive list of standard safety features including: dual supplemental front air bags, energy-absorbing steering column, child safety rear door locks, 3-point seat belts in all seating positions, front seat belts with height-adjustable shoulder anchors, front seat belt pretensioners with load limiters, front and rear crumple zones and pipe-style steel side-door guard beams. Front seat supplemental side-impact air bags are optionally available on GXE and SE models. A vehicle security system with Immobilizer is standard on the CA model and optionally available on GXE and SE models.

### **2000 Sentra Model Availability**

The all-new 2000 Sentra is offered in the limited production Sentra CA (available only in California), the value-leading XE, well-equipped GXE and sporty SE.

Available options include the automatic transmission (standard on CA), an XE Option Package, GXE Convenience and Luxury Packages, SE Performance Package, front seat supplemental side-impact air bags (GXE and SE), ABS (XE, GXE, SE), sunroof (SE) and various advanced audio systems, including a 7-speaker AM/FM/CD with 6-disc in-dash compact disc changer.

"The all-new Nissan Sentra is clearly a car that has it all - value, styling, comfort and out-of-category performance," said Connelly. "Along with our new 2000 Maxima and Altima, the new Sentra gives us the strongest three-sedan lineup in the industry."

### **At-a-Glance: 2000 Nissan Sentra**

Nissan once again raises the standard in class with the introduction of the all-new 2000 Sentra, featuring sophisticated styling, enhanced roominess and refined ride and handling. It is available with a choice of 126-horsepower DOHC 1.8-liter or 145-horsepower DOHC 2.0-liter 4-cylinder engines. The 2000 Sentra will be

offered in four versions - the limited production Sentra CA (Clean Air), the first gasoline-fueled vehicle to be certified by the California Air Resources Board to its Super Ultra Low Emissions Vehicle (SULEV) and zero evaporative emissions standards, the well-equipped XE and GXE models, and the sporty Sentra SE. It will be available at Nissan retailers nationwide in early spring. Highlights of the 2000 Nissan Sentra include:

### **Body**

- All-new styling with fresh, distinctive design and 30 percent increase in torsional rigidity
- Five new exterior colors (eight colors total)

### **Engine and Driveline**

- New 126-horsepower 16-valve DOHC 1.8-liter 4-cylinder engine, producing 129 ft-lbs of torque
- SE model features refined 145-horsepower 16-valve DOHC 2.0-liter all-aluminum 4-cylinder engine, producing 136 ft-lbs of torque
- Choice of 5-speed manual or 4-speed electronically controlled automatic transmissions
- Front engine/front-wheel drive á Platinum-tipped spark plugs with 100,000-mile maintenance intervals

### **Suspension, Steering and Braking**

- Independent MacPherson strut front suspension; front and rear stabilizer bars, new front subframe
- Rear Multi-Link Beam suspension
- Power-assisted rack-and-pinion steering
- Power-assisted front disc/rear drum brakes (4-wheel disc on SE) with optional ABS on GXE, SE

### **Interior Features**

- All-new, larger interior with more front and rear headroom, added storage compartments
- Standard power windows with driver-side one-touch auto-down feature, power door locks on GXE, SE and CA
- Choice of three interior colors: Sand, Stone and Midnight

### **Safety and Security**

- High strength "Zone Body" construction
- Supplemental front air bags, available front seat supplemental side-impact air bags (GXE, SE)
- Front seat belts with adjustable shoulder belt anchors and pretensioners with load limiters
- Child safety rear door locks
- Front and rear crumple zones, pipe-style steel side-door guard beams

- Available Vehicle Security System with Immobilizer

### Models and Manufacturing

- Offered in three well-equipped models: XE, GXE, SE, as well as the limited production CA model (available in California only)
- Assembled by Nissan Mexicana (NISMEX), Aguascalientes, Mexico

### 2000 Nissan Sentra Specifications

ENGINE		XE	GXE	SE
QG18DE 1.8-liter DOHC 16-valve 4-cylinder engine with cast iron block and aluminum head		•	•	-
SR20DE 2.0-liter DOHC 16-valve 4-cylinder engine with aluminum block and head		-	-	•
	<b>1.8-liter</b>	<b>2.0-liter</b>		
Horsepower (SAE net)	126 @ 6,000 rpm	145 @ 6,400 rpm		
Torque (SAE net in ft-lbs)	129 @ 2,400 rpm	136 @ 4,800 rpm		
Bore X stroke (inches)	3.20 X 3.52	3.39 X 3.39		
Bore X stroke (millimeters)	80.0 X 88.0	86.0 X 86.0		
Compression ratio	9.5:1	9.5:1		
Induction system	Sequential multi-point electronic fuel injection	Sequential multi-point electronic fuel injection		
Valvetrain	DOHC, 4-valves-per-cylinder	DOHC, 4-valves-per-cylinder		
Recommended fuel	Unleaded regular	Unleaded premium		
Emissions system	TWC, Closed	TWC, Closed		



		loop control, EGR	loop control, EGR		
Maximum engine speed		6,400 rpm	6,600 rpm		
<b>DRIVETRAIN</b>					
Drive configuration	Front engine/front-wheel drive				
Transmission type	5-speed manual or electronically controlled 4-speed automatic transmission				
Gear ratios ( :1)		<b>4-speed auto.</b>	<b>5-speed man.</b>	<b>5-speed man. SE</b>	
	<b>1st</b>	2.861	3.333	3.333	
	<b>2nd</b>	1.562	1.955	1.955	
	<b>3rd</b>	1.000	1.286	1.286	
	<b>4th</b>	0.697	0.926	0.926	
	<b>5th</b>	--	0.756	0.733	
	<b>reverse</b>	2.310	3.417	3.153	
		1.8L, 5sp manual	1.8L, 4sp auto	2.0L, 5sp manual	2.0L, 4sp auto
Final drive ratio ( :1)		3.789	3.827	4.176	3.827
Differential type	Conventional				
<b>BODY, SUSPENSION AND STEERING</b>					
Body type	All-steel unibody with DURASTEELÒ				
Front suspension	Independent MacPherson struts with coil springs and stabilizer bar				
Rear suspension	Rear Multi-Link BeamÔ suspension with stabilizer bar				
Steering Ratio ( :1)	17.49				
Turning Circle (curb-to-curb in feet)	34.7				

Turns (lock-to-lock)	3.01			
<b>BODY, SUSPENSION AND STEERING, CONT.</b>		<b>XE</b>	<b>GXE</b>	<b>SE</b>
Sport-tuned suspension		-	-	•
Power-assisted, engine speed sensitive rack-and-pinion steering		•	•	•
<b>BRAKES</b>		<b>XE</b>	<b>GXE</b>	<b>SE</b>
Front: Power-assisted 10.12-inch vented discs		•	•	-
Front: Power-assisted 11.02-inch vented discs		-	-	•
Rear: Power-assisted 9.13-inch drums (self-adjusting)		•	•	-
Rear: Power-assisted 9.13-inch discs		-	-	•
4-channel/4-sensor Anti-lock Braking System (ABS)		-	o	o
<b>ELECTRICAL</b>		<b>XE</b>	<b>GXE</b>	<b>SE</b>
Electronic ignition system		•	•	•
100 amp alternator		•	•	•
Low-maintenance 12-volt, 49 amp-hour battery		•	•	•
<b>WHEELS AND TIRES</b>		<b>XE</b>	<b>GXE</b>	<b>SE</b>
14-inch steel wheels with full wheel covers (5.5JJ X14 with 40 mm offset)		•	•	-
15-inch aluminum-alloy wheels (6.0JJ X15 with 40 mm offset)		-	o	•
16-inch aluminum-alloy wheels (6.0JJX16 with 40mm offset)		-	-	o
P185/65-14 all-season steel-belted radial tires		•	•	-
P195/60-15 all-season steel-belted radial tires		-	o	•

P195/55-16 all-season steel-belted radial tires		-	-	0
<b>EXTERIOR DIMENSIONS</b>				
Wheelbase (in inches)	99.8			
Overall length (in inches)	177.5			
Overall width (in inches)	67.3			
Overall height (in inches)	56.5			
Front track width (in inches)	58.3 (58.1 on SE)			
Rear track width (in inches)	57.5 (57.3 on SE)			
Trunk liftover height (in inches)	TBD			
Minimum ground clearance (in inches)	3.9 (14-inch tire), 4.3 (15-inch tire), 4.5 (16-inch tire)			
Coefficient of Drag (Cd)	TBD			
<b>EXTERIOR FEATURES AND OPTIONS</b>		<b>XE</b>	<b>GXE</b>	<b>SE</b>
Multi-parabola halogen headlights		•	•	•
Plated front grille		•	•	•
Blue-green tinted glass		•	•	•
<b>EXTERIOR FEATURES AND OPTIONS, CONT.</b>		<b>XE</b>	<b>GXE</b>	<b>SE</b>
Dual black manual outside mirror		•	-	-
Dual body-color power outside mirrors		-	•	•
Body-color side moldings and door handles		•	•	•
Body-color bumpers		•	•	•
Fog lights		-	-	•
Body-color rear spoiler		-	-	0

Body-color side sill extensions		-	-	o
Chrome exhaust finisher		-	-	•
Power sliding glass sunroof with tilt feature and vented sliding sunshade		-	-	o
<b>INTERIOR DIMENSIONS</b>		<b>Front</b>	<b>Rear</b>	
Head room (in inches)		39.9	37.0	
Leg room (in inches)		41.6	33.7	
Hip room (in inches)		52.1	52.3	
Shoulder room (in inches)		52.5	52.6	
<b>INTERIOR FEATURES AND OPTIONS</b>		<b>XE</b>	<b>GXE</b>	<b>SE</b>
Contoured reclining front bucket seats with adjustable head restraints		•	•	•
Cloth seat trim		•	•	•
60/40 split fold-down rear seat		-	o	•
Full cloth door trim		•	•	•
Leather-wrapped steering wheel and manual transmission shift knob		-	-	•
Full cut-pile carpeting		•	•	•
Map pockets (front-door)		•	•	•
Center console storage		•	•	•
Dual cup holders		•	•	•
<b>CAPACITIES</b>				
Seating capacity		5		
Interior passenger volume (cu. ft.)		88.5		
Cargo volume (cu. ft.)		11.6		
Fuel tank (gals.)		13.2		

Engine coolant (qts.)		1.8-liter: 6.0, 2.0-liter: 6.2 (manual)  1.8-liter: 3.1, 2.0-liter: 6.2 (auto.)			
Engine oil (qts.)		1.8-liter: 3.1, 2.0-liter: 4.0			
Maximum towing capacity (lbs.)		TBD			
<b>CURB WEIGHTS</b>			<b>XE</b>	<b>GXE</b>	<b>SE</b>
Manual transmission			2,548	2,593	2,674
Automatic transmission			2,581	2,627	2,713
Weight distribution (ft/rr %)	Manual trans.		62/38	62/38	62/38
Automatic trans.			62/38	63/37	63/37
<b>COMFORT AND CONVENIENCE</b>			<b>XE</b>	<b>GXE</b>	<b>SE</b>
<b>FEATURES AND OPTIONS</b>					
CFC-free air conditioning			o	•	•
Power windows with driver-side auto-down feature			-	•	•
Power door locks			-	•	•
Cruise control			-	•	•
Remote hood release			•	•	•
Trunk and fuel-filler door releases			•	•	•
Tilt steering column			•	•	•
2-speed wipers			•	-	-
2-speed intermittent wipers			-	•	•
Electric rear window defroster with indicator light			•	•	•
Side-window demisters			•	•	•
Driver-side visor with vanity mirror			-	•	•

Driver-side visor with illuminated vanity mirror		-	0	0
Passenger-side visor vanity mirror		•	•	•
Passenger-side visor with illuminated vanity mirror		-	0	0
Digital clock (included in stereo)		0	•	•
Vehicle Security System with remote keyless entry with lockout prevention feature		-	-	0
Trunk light		-	•	•
<b>AUDIO SYSTEMS</b>		<b>XE</b>	<b>GXE</b>	<b>SE</b>
AM/FM/cassette 4-speaker audio system - 60-watt (max.) stereo with 12 FM presets, auto-reverse cassette with automatic program search and Dolby Noise Reduction, four speakers and digital clock		0	-	-
AM/FM/CD 4-speaker audio system		-	•	•
AM/FM/CD 180-watt 7-speaker audio system		-	0	0
AM/FM/6-Disc In-Dash changer 7-speaker audio system		-	-	0
<b>SAFETY FEATURES</b>		<b>XE</b>	<b>GXE</b>	<b>SE</b>
Second Generation dual supplemental air bags		•	•	•
Front seat side supplemental airbags		-	0	0
Pipe-style steel side-door guard beams		•	•	•
Child safety rear door locks		•	•	•
Child seat anchors		•	•	•
3-point ALR/ELR seat belt system at all outboard passenger locations		•	•	•
Energy-absorbing steering column		•	•	•
Hood buckling creases and safety stops		•	•	•

Front and rear crumple zones			•	•	•
Transmission interlock			•	•	•
<b>EPA MILEAGE ESTIMATES</b>			<b>XE</b>	<b>GXE</b>	<b>SE</b>
Manual transmission	City		27	27	24
	Highway		35	35	31
Automatic transmission	City		26	26	24
	Highway		33	33	30
<b>INSTRUMENTATION</b>			<b>XE</b>	<b>GXE</b>	<b>SE</b>
Speedometer, coolant temperature gauge			•	•	•
Tachometer			-	•	•
Dual trip odometer			•	•	•
Fuel level gauge			•	•	•
Titanium-faced gauges			-	-	•
Digital quartz clock (in radio display)			•	•	•
<b>FACTORY OPTIONS AND PACKAGES</b>			<b>XE</b>	<b>GXE</b>	<b>SE</b>
XE Option Package — AM/FM/cassette audio system and air conditioning			o	-	-
GXE Convenience Package — Remote keyless entry with trunk release, 60/40 rear fold-down seat, convenience net, auxiliary power outlet and valet key			-	o	-
GXE Luxury Package — 15-inch alloy wheels and tires, 150-watt AM/FM/CD 7-speaker audio system, dual illuminated visor vanity mirrors, overhead console with map lights, vehicle security system and Immobilizer			-	o	-
SE Performance Package — 16-inch alloy wheels and tires, 150-watt AM/FM/CD 7-speaker audio system, body-color side sills, rear spoiler with CHMSL, dual illuminated visor vanity mirrors, overhead console with map lights, sport seat cloth, vehicle security system and Immobilizer.			-	-	o

Automatic Transmission		o	o	o
Immobilizer/VSS System		-	o	o
Sunroof		-	-	o
150-watt AM/FM/CD 7-speaker audio system		-	-	o
6-Disc In-Dash CD Changer		-	-	o
Side Airbags and Anti-lock Braking System (ABS)		-	o	o
<b>DEALER INSTALLED ACCESSORIES</b>				
CD autochangers (6-disc in-dash), cassette deck cleaner, rear spoiler, carpeted floor mats, sunroof wind deflector, wheel locks, cigarette lighter, car cover/cable lock, battery warmer, center console armrest, passenger-side mirror, splash guards, nose mask, engine block heater, convenience net, leather steering wheel/shift knob, AM/FM/cassette audio systems, in-dash cellular phone, vehicle security system, air conditioner				
		•	<i>Standard Equipment</i>	
		o	<i>Optional Equipment</i>	
		-	<i>Not Available</i>	
			<i>1/00</i>	

<b>2000 Nissan Sentra Pricing</b>			
<b>Model</b>	<b>Engine</b>	<b>Transmission</b>	<b>MSRP</b>
XE	1.8-liter DOHC I4	5-speed man.	\$11,649
XE	1.8-liter DOHC I4	4-speed auto.	\$12,399
GXE	1.8-liter DOHC I4	5-speed man.	\$13,499
GXE	1.8-liter DOHC I4	4-speed auto.	\$14,299



SE	2.0-liter DOHC I4	5-speed man.	\$14,899
SE	2.0-liter DOHC I4	4-speed auto.	\$15,699
<b>Option Package</b>	<b>Contents</b>	<b>Models</b>	<b>MSRP</b>
XE Option Package	Air Conditioning and AM/FM/cassette 4-speaker audio system	XE	\$1,199
GXE Convenience Package	Remote keyless entry system with trunk release, 60/40 split fold-down rear seat, convenience net with dual trunk hooks, rear auxiliary power outlet and valet key	GXE	\$150
GXE Luxury Package	(Requires GXE Convenience Package) 15-inch alloy wheels, P195/60HR15 tires, Premium 180-watt AM/FM/CD audio system with 7 speakers, dual illuminated visor vanity mirrors, overhead storage console with map lamps and immobilizer/VSS system	GXE	\$649
SE Performance Package	16-inch alloy wheels, P195/55R16 tires, rear spoiler, viscous limited-slip differential (M/T only), Premium 180-watt AM/FM/CD audio system with 7 speakers, body color side sill extensions, dual illuminated visor vanity mirrors, overhead storage console with map lamps, sport seat cloth and immobilizer/VSS system	SE M/T SE A/T	\$899 \$699
Immobilizer/VSS System	GXE requires GXE Convenience Package	GXE, SE	\$299
Side-impact Air Bags and Anti-lock Braking System		GXE, SE	\$699
Power Sunroof	Requires Premium AM/FM/CD audio system with 7 speakers	SE	\$599

Premium 180-watt AM/FM/CD audio system with 7 speakers	Included in SE Performance Package and GXE Luxury Package	GXE, SE	\$199
6 Disc In-dash CD Changer	GXE requires GXE Luxury Package, SE requires either Premium 180-watt CD audio system or SE Performance Package	GXE, SE	\$399
Destination and Handling			\$520

### **2000 Nissan Sentra CA "Clean Air" Model Claims Title As the Cleanest Gasoline-Fueled Car in the World**

Car A is driven 10 miles to work in the morning, 10 miles home in the afternoon. Car B sits in the driveway all day long with its engine turned off. Which car emits fewer harmful vapors? Answer: Car A - if the car is actually car CA, as in the new 2000 Nissan Sentra CA.

The Sentra CA (for "Clean Air"), which was introduced to the world's automotive media at a press conference at the North American International Show in Detroit, is the only gasoline-fueled vehicle in the world to receive California Air Resources Board (CARB) super ultra low emission vehicle (SULEV) certification and obtain zero emission credits. The Sentra CA received CARB certification after meeting its stringent requirements in three critical areas: zero evaporative emissions, SULEV tailpipe emissions levels and OBD II (On-Board Diagnostic II) requirements.

Perhaps even more amazing is the fact that the Sentra CA achieves these technological breakthroughs solely through advances in engine and emissions technology - the vehicle itself is an otherwise unmodified 2000 Sentra equipped with a normal 1.8-liter 4-cylinder engine. It looks and drives like any 2000 Nissan Sentra - distinguished only by special "CA" badging on the trunk.

The Sentra CA joins three other all-new Sentra models, the XE, GXE and SE, which also debuted at Detroit. All 2000 Sentras feature a larger, restyled body, refined interior, improved ride and handling and will be built on an all-new global front-wheel drive platform.

"The arrival of the new Sentra CA proves to the world that you can build a safe, affordable, environmentally friendly vehicle without sacrificing styling, comfort or performance," said Jed Connelly, vice president and general manager, Nissan Division, Nissan North America, Inc. "The only concession the driver will notice

is the vehicle's need for low-sulfur gasoline, which is currently available only in California."

Sales of the limited production Sentra CA are scheduled to begin in March in California. (There is no effect on performance or mileage if the Sentra CA is driven on higher sulfur content fuel; however, SULEV emissions levels may not be attainable.)

### **Advanced Emissions Technology**

The SULEV standard is part of CARB's recently approved LEV II regulatory package for 2004 and subsequent years, meaning the Sentra CA currently meets SULEV emissions levels at least four years early.

According to CARB, the Sentra CA qualifies for zero emission vehicle credits, which used to only be awarded to pure electric vehicles, because it also has zero fuel evaporative emissions and has adopted CARB's 15-year/150,000-mile limited emissions warranty. Tailpipe emissions from the Sentra CA are about eight times cleaner - one-fourth of unburned hydrocarbon (HC) levels, one-tenth of oxides of nitrogen (NOx) - than ultra low emission vehicles (ULEV), the cleanest gasoline-powered automobiles currently being sold in California.

A number of key technologies combine to make this all possible: double-wall exhaust manifolds, a new combustion control sensor, quicker catalyst warm-up (three three-way catalysts are utilized in the emissions system), new hydrocarbon trap catalysts and use of a special electronically controlled swirl control valve that reduces hydrocarbon emissions in cold and warm start situations.

In addition, the Sentra CA includes technology that actually helps eliminate harmful ground-level ozone - the main component of smog. The radiators of all Sentra CAs are coated with Engelhard Corp.'s PremAir™. As ozone-laden air passes over the radiator, the PremAir™ coating converts ozone molecules into oxygen. In effect, the air the Sentra CA leaves in its wake should be cleaner than the air in front of the vehicle.

The 2000 Sentra CA also fulfills all OBD II standards, which require emissions systems to detect minute changes in emissions and to notify the driver when service may be needed to keep the engine running in its cleanest possible state.

"The most significant feature of the Sentra CA is zero evaporative emissions, a feat thought extremely difficult, if not impossible, to attain just a few years ago," said Connelly. "Fuel vapors, which are potentially harmful to the environment, seep from fuel systems constantly, whether a vehicle is being operated or whether it is parked. Some of these gases react with sunlight to create smog, which has been linked to a range of health problems related to breathing, including chest pain, coughing and shortness of breath. The Sentra CA eliminates nearly all of those vapors."

The Sentra CA engine is rated at an estimated 126 horsepower at 6,000 rpm and 129 ft-lbs of torque at 2,400 rpm and only available with a 4-speed electronically controlled automatic transmission. Fuel economy is expected to be in the 26 mpg

City/33 mpg Highway range.

### **A Full Array of Features**

The new Sentra CA is a five-passenger, four-door sedan with an international design and engineering passport. The crisp, contemporary exterior was styled at Nissan Design International, Inc. in La Jolla, Calif., and features flush-mounted one-piece multi-parabola headlights, body-color door handles, bumpers, front grille and side door mirrors and moldings and 15-inch aluminum alloy wheels.

The interior was created by Nissan Design Europe in Geretsried, Germany, and emphasizes roominess, comfort and convenience. Standard features include power windows with one-touch auto down, power door locks, 4-speaker AM/FM/CD audio system, CFC-free air conditioning, remote trunk and fuel filler door releases and front cupholders. Safety equipment includes dual front supplemental air bags, pipe-style steel side-door guard beams and front seat belts with pretensioners and adjustable upper anchors, as well as 3-point seat belts in all seating positions and child safety rear door locks and vehicle security system with Immobilizer.

Underneath, the Sentra CA offers independent strut front suspension, Rear Multi-Link Beam suspension, front and rear stabilizer bars, power-assisted rack-and-pinion steering and power-assisted vented front disc/rear drum brakes.

### **A Tradition of Environmental Leadership**

The Sentra CA continues Nissan's long tradition of environmental leadership. In September, Nissan received the prestigious 1999 Climate Protection Award from the U.S. Environmental Protection Agency (EPA) - the only automaker so recognized - for its aggressive steps to address global warming, reduce hydrofluorocarbons and improve fuel economy in its vehicles.

*Other recent Nissan environmental accomplishments include:*

- The first automobile manufacturer in the U.S. to install the equipment for recovery and recycling of chlorofluorocarbon (CFC-12) and hydrofluorocarbon (HFC-134a) refrigerants at all its U.S. dealerships.
- Among the first automakers worldwide to eliminate the use of CFCs as a foaming and cleaning agent in manufacturing processes.
- Nissan was the only automaker to receive the EPA's "Best of the Best" award for protecting the stratospheric ozone layer.
- Nissan is the first automaker to demonstrate a fuel cell vehicle with hydrogen supplied by an on-board methanol-reforming system.
- Nissan is curbing HFC emissions in Japan where there is no government regulation regarding HFCs.
- The first automobile manufacturer in the world to introduce a powertrain system combining direct-injection gasoline (DiG) engine with a continuously variable transmission (CVT). These vehicles emit far less pollution yet maintain high power and a 50 percent improvement in fuel mileage ratings. The DiG-CVT technology was honored with the Energy Conservation Prize from the director general of Japan's Agency of Natural

Resources and Energy.