2001 AURORA

Oldsmobile

START SOMETHING

The all-new 2001 Oldsmobile Aurora has it all. You provide the input. Aurora responds. And in the process, the simple, everyday act of driving is transformed into one of life's great pleasures.

AT THE FRONT OF THE CAR...

• Aurora's **all-new design** attracts the eye with long clean lines and a bold, aggressive stance. • **Reflector-optic headlights** provide excellent illumination and add a jewel-like styling accent. • For your safety and convenience, **automatic light control** turns on the headlights and taillights automatically, whenever they're needed. • Standard front and rear **fog lights** enhance visibility in inclement driving conditions.

LIFT THE HOOD...

• With either the **3.5L Twin Cam V6** or the **exclusive 4.0L Aurora V8**, Aurora's performance is spirited and responsive. • **Full-range traction control** adds to driver control under acceleration on slippery surfaces. • **Four-wheel disc brakes with ABS** provide excellent stopping power and steering control. • If a skid takes place during cornering, the available (standard on Aurora 4.0) **Precision Control System** steps in to help end the skid and help bring the car back to your desired line.

OPEN THE PASSENGER DOOR...

• **Leather seating surfaces** and genuine **walnut burlwood trim** contribute to a luxurious driving environment. • **Automatic climate control systems** add to your convenience and comfort year-round. • **Standard particulate and pollen filter** reduces impurities in the air. • **Catcher's Mitt™ front seats, frontal and front seat side-impact air bags** and a full complement of other safety features provide excellent occupant protection.

POP THE TRUNK...

• Aurora's **large, well-designed trunk** easily accommodates most cargo. • A **large trunk opening** and a **low lift-over height** make for easy loading and unloading. • A **pass-through** in the rear seat lets you carry long objects, like skis, inside the car.

TAKE A STEP BACK...

• Aurora's centre high-mounted stop light uses **Light Emitting Diodes (LEDs)** instead of conventional bulbs, so it illluminates faster to warn other drivers when you're braking. • **Solar-control tinted glass** keeps the passenger compartment cool and protects interior materials from damaging UV rays. • A **stainless steel exhaust system** is just one of Aurora's many long-life features.

SLIP INTO THE DRIVER'S SEAT...

• Cleanly styled **analogue gauge cluster** provides essential information at a glance. • For your convenience, the standard **Driver Information Centre** includes a trip computer, a compass and oil-life and tire-pressure monitoring systems. • For extra driver control, Aurora features a **gated transmission shifter** that allows positive gear changes. • **Personalization** system automatically returns a wide variety of vehicle functions – including the climate control and sound systems – to your preferred settings.

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Precision Control System

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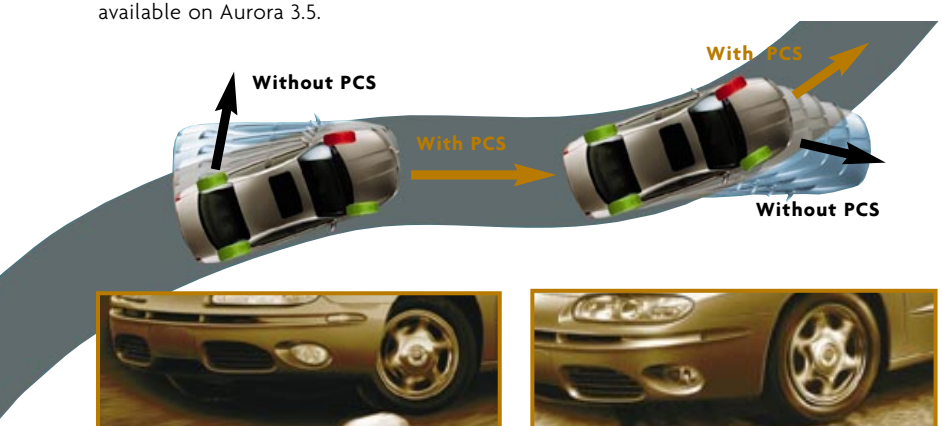
START SOMETHING

Technology that can actually make you a better driver

Aurora's Precision Control System (PCS) can help you handle many challenging driving situations safely and confidently. Any time your car starts a lateral skid during cornering, PCS will step in automatically to help end the skid and bring the car back to your desired line. It's the most important step forward in driver control since the invention of anti-lock brakes, and it's standard on Aurora 4.0 and available on Aurora 3.5.



Avoiding collisions

The more control you have behind the wheel, the more effective you are at avoiding danger. When you have to react fast, Aurora's Precision Control System can help you to steer your way to safety.

Taming rough road surfaces

Encountering potholes and broken pavement during cornering can upset a car's balance and reduce the driver's control. The Precision Control System is always on guard to help restore stability.

Increasing confidence and control

With the Precision Control System, Aurora's already responsive handling is even more rewarding. PCS helps to keep the car balanced and poised for whatever lies around the next curve.

Maximizing traction

The Precision Control System makes the most of the available traction in rain, snow or other conditions where traction is reduced. Along with Aurora's traction control and ABS, PCS helps to get you to your destination safely.

Understanding Aurora's Precision Control System

An intelligent matrix of high-tech hardware

Aurora's Precision Control System is a complex system linked with the car's standard ABS and traction control. PCS gathers information from a number of sophisticated sensors, including:

- Steering angle sensor
- Yaw rate sensor and lateral accelerometer (yaw is the rotation of the vehicle as viewed from above)
- Wheel speed sensors
- Master cylinder pressure sensor

Input from all these units is transmitted via an encoded multiplexed communication system and updated hundreds of times per second. Computer analysis is used to determine whether a cornering skid is taking place. If the system detects a skid, it then automatically applies one or both of the Aurora's front disc brakes to help restore driver control. At the same time, the system signals Aurora's Magnasteer variable-assist steering system to adjust the amount of steering assist it provides. While the skid is underway, Magnasteer reduces the amount of assist, resulting in a heavier steering feel which helps keep the driver from reducing the effectiveness of the PCS by inadvertantly over-correcting for the skid. When the skid has been controlled and traction restored, Magnasteer raises the level of assist to restore normal steering feel. The Precision Control System is always active and does not need to be turned on by the driver.

How it works

Cornering skids generally fall into one of two categories: understeer and oversteer.

Understeer takes place when the **front** wheels lose traction when the driver turns the steering wheel. During understeer, the car fails to turn and slides straight forward.

Oversteer is a rarer problem that takes place when the **rear** wheels lose traction during cornering. The rear end of the car slides out to the side (commonly referred to as fishtailing) and the car may actually spin unless the skid is corrected. Both of these types of skids can be controlled by Aurora's Precision Control System.

Controlling understeer

Aurora's PCS detects understeer by comparing the signals from the steering angle sensor and the yaw rate sensor. A **high** degree of steering angle combined with a **low** yaw rate indicates an understeer situation.

The electronic control unit then steps in by applying the **inside** front brake. This helps to restore the car's balance and return it to the driver's intended line.

While the system is actively engaged, the Low Trac light on the instrument panel lights up to alert the driver of the limited traction available.

Controlling oversteer

Oversteer is the opposite condition of understeer. The Precision Control System recognizes that oversteer is taking place when it senses a **low** degree of steering angle combined with a **high** yaw rate.

When this happens, PCS automatically applies the brake on the front wheel that is on the **outside** of the turn. This braking action helps to slow the car's rotation and bring the skid to an end.

The Low Trac light on the instrument panel also lights up in this situation to inform the driver that PCS has been activated.

Remember...

The Precision Control System was developed to provide drivers with an increased level of control, but it has its limits. PCS cannot correct for reckless or dangerous manoeuvres and cannot override the laws of physics. The system also must work within the limits of the available traction and its effectiveness will be reduced in very low-traction situations.

When the Precision Control System begins to engage, drivers may experience a pulsing of the brake pedal similar to that experienced when ABS is activated. This pulsing is completely normal. Drivers should continue to steer and brake as they otherwise would.