

Lexus CT 200h Equipped with Active and Passive Safety Features

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Torrance, Calif. – Sept. 7, 2010 – Like all Lexus vehicles, CT 200h will be equipped with many standard active safety features including an anti-lock brake system (ABS) with electronic brake-force distribution (EBD), Brake Assist (BA), Traction Control (TRAC) and Vehicle Stability Control (VSC).

The four-channel, four-sensor ABS helps reduce stopping time and improves control while braking. EBD monitors all four wheels during braking and varies brake pressure to each wheel based on driving conditions and available traction.

During hard braking the BA system helps boost braking force when the driver does not apply enough pressure to the brake pedal. BA intervenes when the system senses that the driver's action indicates an emergency-stopping situation and allows the driver to benefit from more of the vehicle's full braking power.

TRAC helps optimize traction by working with the Electronic Throttle Control System (ETCS), ABS and VSC to help prevent the drive wheels from spinning while accelerating under slippery conditions.

The VSC system is designed to help identify when the tires experience lateral slippage during cornering, or turning on slippery road surfaces. VSC responds by applying the brakes and reducing the throttle to help keep the vehicle on track. VSC works in concert with ABS and TRAC systems on slippery or dry road surfaces.

The CT 200h will incorporate a standard eight airbag Supplemental Restraint System (SRS) with dual-stage airbags and knee airbags for driver and front passenger, side curtain airbags, and front seat-mounted side airbags to help protect passengers in certain types of severe frontal or side collisions.

The Pre-Collision System (PCS) with Dynamic Radar Cruise Control will be available as an option on CT 200h. Dynamic Radar Cruise Control uses millimeter-wave radar to measure and help maintain a pre-set distance from a vehicle traveling ahead. PCS is equipped with a front-mounted radar sensor that can detect certain obstacles in front of the car. The PCS computer helps determine whether a frontal collision is unavoidable using information from the radar sensor, vehicle speed, steering angle and yaw-rate inputs. In such a situation, PCS alerts the driver with audible and visual warnings, and pre-initializes BA so that increased braking will be applied the instant the driver depresses the pedal. In addition, PCS will preemptively retract front seat belts.

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