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AdvanceTrac with RSC (Roll Stability Control)

AdvanceTrac with RSC (Roll Stability Control) combines AdvanceTrac electronic stability control and Roll Stability Control technologies to monitor vehicle cornering behavior and automatically make braking and throttle adjustments when it senses wheelslip, loss of traction or roll motion to help keep the vehicle on its intended path for enhanced driver control.

ADVANCETRAC SYSTEMS

- Anti-Lock Brake System (ABS)
- Roll Stability Control (RSC)
- Traction control
- Yaw control system



SYSTEM DETAILS

AdvanceTrac with RSC monitors vehicle cornering behavior with steering angle, lateral acceleration and yaw sensors to maximize traction and maneuverability using ABS and traction control components:

- Automatically provides interactive yaw (a vehicle's rotation about its vertical axis) control
- Automatically makes braking and throttle adjustments when there is a discrepancy between the driver's inputs and the vehicle's motion
- Incorporates traction control to help the vehicle regain traction on loose or slippery surfaces
- Helps stabilize the vertical stability of the vehicle in adverse conditions like ice, gravel or rain
- Activates whenever the vehicle is started, but may be turned off for certain situations such as when "rocking" a vehicle stuck in mud or snow

ANTI-LOCK BRAKE SYSTEM (ABS)

- Sensors monitor wheel rotation speeds, checking for the onset of wheel lockup
- If the onset of lockup is detected, the system automatically compensates for this condition and prevents wheel lockup by automatically "pumping" the brakes several times per second, even when the brakes are firmly applied
- Improves vehicle steering control in severe braking maneuvers under a variety of weather conditions

ROLL STABILITY CONTROL (RSC)

- An additional vehicle control software module
- Detects the roll angle of the vehicle on the horizontal axis
- Monitors vehicle body roll angle at least 100 times per second
- Automatically reacts to help the driver keep the vehicle upright and all four tires on the ground

TRACTION CONTROL

- Helps provide controlled acceleration and traction at all vehicle speeds
- Electronically detects a difference in rotational speed between the front and rear wheels (wheelslip)
- Below 35 mph, the actuator pulses the brake calipers to the drive wheels to reduce wheelslip
- By applying brake pressure and reducing engine torque to the drive wheels, traction is restored
- At speeds greater than 35 mph, brake activation is eliminated and only engine torque to the drive wheels is reduced until traction is restored

MAKE THE POINT: ADVANCETRAC WITH RSC OPERATION

Explain to your customers that when AdvanceTrac with RSC is active, the following may be noticed:

- Rumble sound much like ABS or traction control
- Slight deceleration or a reduction in the acceleration of the vehicle
- AdvanceTrac indicator light will flash
- When the brakes are applied, the driver will feel a vibration in the pedal much like ABS. As with any vehicle equipped with ABS, the brakes should not be pumped but should be applied with firm, steady braking pressure

Assure your customers that these are normal operational characteristics of AdvanceTrac.

NOTE: Remember that even advanced technology cannot overcome the laws of physics. It's always possible to lose control of a vehicle due to inappropriate driver input for the conditions.

NOTE: For availability of product features, please see Availability by Model and/or the [Dealer Ordering Guide](#).

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Auto-Dimming Interior Rearview Mirror

For driver convenience, the auto-dimming interior rearview mirror will automatically dim to reduce glare when bright lights are detected from behind the vehicle. The mirror will return to normal reflection when bright lights are no longer detected or when the vehicle is placed in Reverse.

