

# SAFETY

## Active Safety

The utmost care has been taken in order to help prevent accidents.

### Features

|   | Europe   | Australia | G.C.C. Countries | General Countries |
|---|----------|-----------|------------------|-------------------|
| ABS (Anti-lock Brake System) with EBD (Electronic Braking force Distribution) | Option   | Option    | Option           | Option            |
| Brake Assist  | Option   | Option    | Option           | Option            |
| VSC (Vehicle Stability Control)   | Option   | Option*2  | –                | –                 |
| DAC (Downhill Assist Control System)  | Option*1 | Option*3  | –                | –                 |
| Hill-Start Assist Control System  | Option*1 | Option*3  | –                | –                 |
| A-TRC (Active Traction Control) System  | Option   | Option*2  | –                | –                 |

\*1: Automatic Transmission Models Only

\*2: 1KZ-TE Engine Models Only

\*3: 1KZ-TE Engine Models with Automatic Transmission Only

### ***ABS (Anti-lock Brake System) with EBD (Electronic Braking force Distribution)***

- The ABS helps to prevent the tires from locking up, thereby ensuring vehicle performance and handling ability.
- The EBD distributes optimal braking force to the front and rear tires in accordance with driving conditions. Furthermore, braking force is distributed to the left and right wheels during braking when cornering to ensure vehicle performance and superior braking power.

### ***Brake Assist***

This system works to support drivers who are unable to apply the brakes fully during emergency braking and for drivers who tend to apply the brakes too lightly. When the brakes are applied rapidly, it is judged by the computer to be emergency braking and additional braking power is generated automatically by the system to ensure sufficient vehicle braking power.

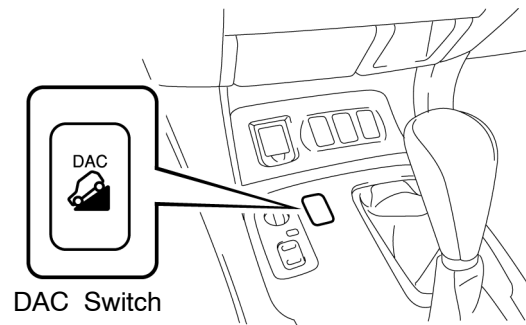
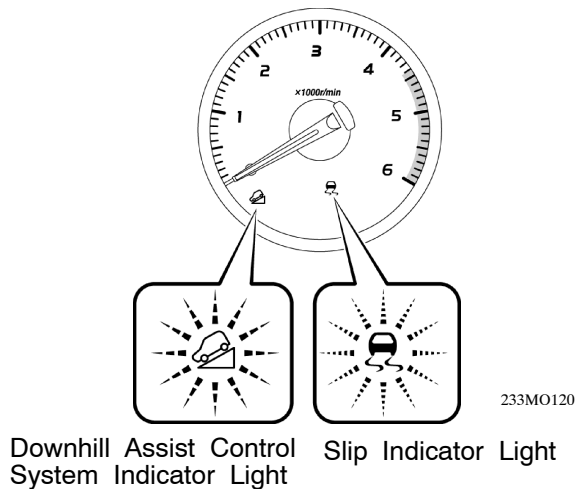
### ***VSC (Vehicle Stability Control)***

This system controls the engine output and directly applies optimal braking force to the front and rear wheels to help maintain intended vehicle directional control if it is about to be lost while cornering due to over- or under-steering.

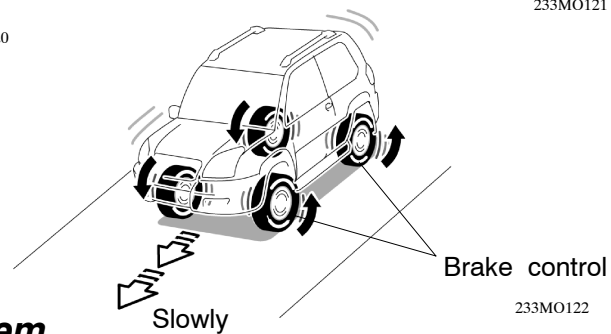
## DAC (Downhill Assist Control)

- The DAC is a system that assists the deceleration of the engine brake when driving down a steep hill. When driving down a hill with the transfer shift lever in the “L” position, push the “DAC” switch to limit the vehicle’s acceleration.
- Push the “DAC” switch to turn the system on. The downhill assist control system indicator light and slip indicator light in the combination meter will come on.
- If there is any abnormality in this system, the “VSC TRAC” warning light will come on.

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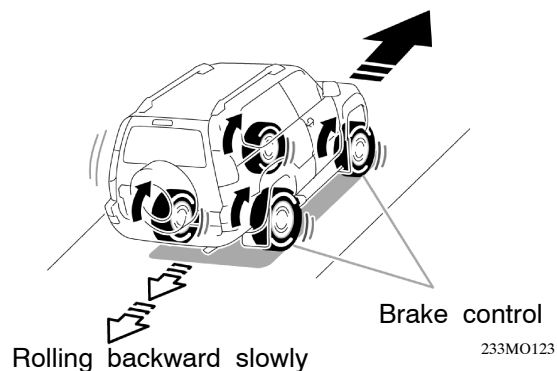
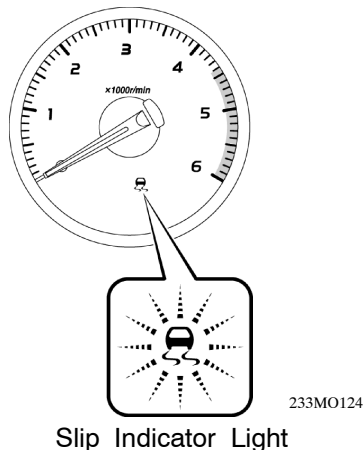
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## Hill-Start Assist Control System

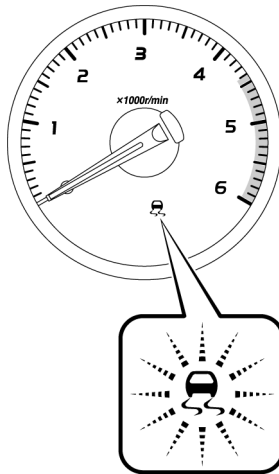
- The hill-start assist control system assists in starting to move up a steep or slippery hill. When starting to move up the hill slope, the system helps to prevent the vehicle from rolling backward in the interval of changing a foot from the brake pedal to the accelerator pedal.
- The hill-start assist control system will operate for a maximum of 5 seconds maximally when the transmission is in D / 4 / 3 / 2 / L position, and the brake pedal is not depressed.
- When the hill-start assist control system is operating, the slip indicator light in the combination meter flashes and an alarm sounds intermittently. At the same time, the stop lights and high mounted stop light are lit.
- If there is any abnormality in this system, the “VSC TRAC” warning light will come on.



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## ***A-TRC (Active Traction Control) System***

- The A-TRC system automatically helps prevent the spinning of 4 wheels when the vehicle is started or accelerated on slippery road surface.
- The A-TRC system helps restrain the wheels from slipping by controlling the engine output and brake fluid pressure that is applied to the slipping wheel, and distributes the drive force that would have been lost through the slippage to the remaining wheels in order to achieve an effect that is similar to LSD (Limited Slip Differential).
- When the A-TRC system is controlling the spinning of the 4 wheels, the slip indicator light in the combination meter blinks.
- If there is any abnormality in this system, the “VSC TRAC” warning light will come on.



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