Hill Decent Control

What is Hill Decent Control

What:

A system that controls vehicle speed without drivers intervention on steep downhill grades at slow speeds

Why:

To improve passenger safety by providing regulated control of engine, transmission, and brakes to maintain a safe speed on slow downhill grades.

Benefits:

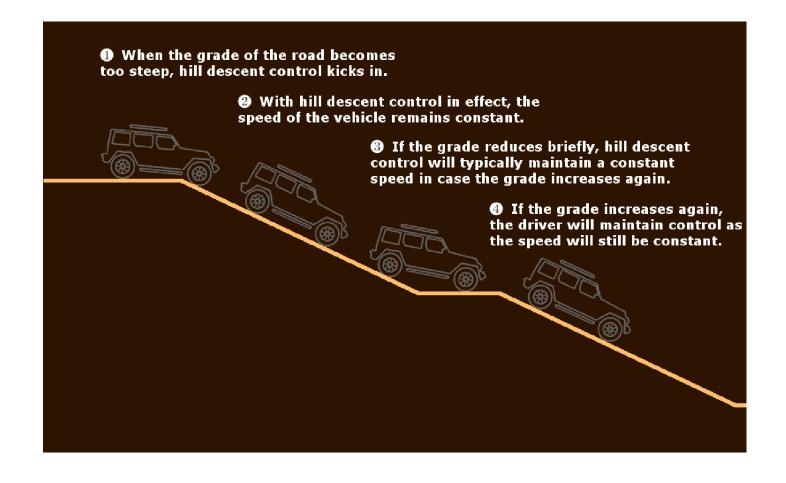
Decrease in accidents / injuries / deaths

How:

Utilization of sensors and electronically controlled systems can interpret and react to changing conditions faster than a human driver in many situations reacts. System is "Active" (Provide engine speed, transmission range, and brake application) to maintain a consistent speed on slow downhill grades without driver assistace.

Hill Decent Control Operation

When activated by the driver, the system will maintain a consistent speed, typically below 25 mph, by controlling engine speed, transmission range, and brakes. The driver continues to control the steering.



Hill Decent Control Components

Module

Engine Management

Throttle Control

Brake System

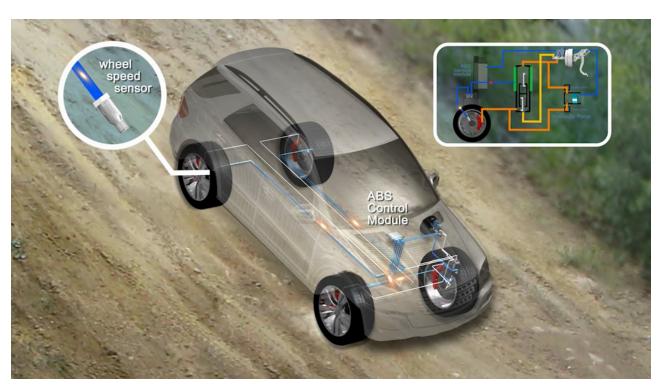
ABS

Transmission

Sensors

Control Switch

Visual Indicators





Hill Decent Control Diagnosis

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Visual inspection
   Brake System Components
Fault codes
   OEM
   SAE
Electrical testing
   Power
   Ground
   Signals
   BUS Communications
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Hill Decent Control Service / Calibration

Mechanical
Brake systems