

VEHICLE SPEED CONTROL SYSTEM

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DIESEL ENGINE SPEED CONTROL SYSTEM

Unique features for the 2.5L diesel engine will be covered in this section.

- Models equipped with the 2.5L diesel engine do not use a vacuum reservoir to retain engine vacuum for speed control operation. There are no vacuum-operated speed control servos used in vehicles with the 2.5L diesel engine.

- The range of the speed control system operation is restricted to speeds between 56 km/h (35 MPH) to 145 km/h (90 MPH).

- Inputs to the MSA that allow speed control operation are from the vehicle speed sensor and the Speed Control Switch.

- Two separate speed control switch modules are mounted on the steering wheel to the left and right side of the driver's airbag module. Switch features are:

- Within the two switch modules, five **momentary** contact switches, supporting seven different

speed control functions are used. The outputs from these switches are filtered into one input. The MSA determines which output has been applied through **resistive multiplexing**. The input circuit voltage is measured by the MSA to determine which switch function has been selected.

- A speed control indicator lamp, located on the instrument panel cluster is energized by the MSA via the CCD Bus. This occurs when speed control system power has been turned ON, and the engine is running.

- The two switch modules are labeled: ON/OFF, SET, RESUME/ACCEL, CANCEL and COAST. Refer to the owner's manual for more information on speed control switch functions and setting procedures. The individual switches cannot be repaired. If one individual switch fails, the switch module must be replaced.

