VEHICLE SPEED CONTROL SYSTEM

CONTENTS

page

GENERAL INFORMATION
INTRODUCTION 1

GENERAL INFORMATION

INTRODUCTION

This group covers both Left-Hand Drive (LHD) and Right-Hand Drive (RHD) versions of this model. Whenever feasible, the RHD versions of affected vehicle components have been constructed as mirror-image of the LHD versions. While most of the illustrations used in this group represent only the LHD version, the diagnostic and service procedures outlined can generally be applied to either version. Exceptions to this rule have been clearly identified as LHD or RHD, if a special illustration or procedure was/is required.

The speed control system used with the 2.5L diesel engine is basically identical to the system used with gasoline powered engines. Features unique to the 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 vaccum-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:

  a. Within the two switch modules, five **momentary** contact switches, supporting seven different speed control functions are used.

  b. 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.

  c. 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.

  d. 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.