

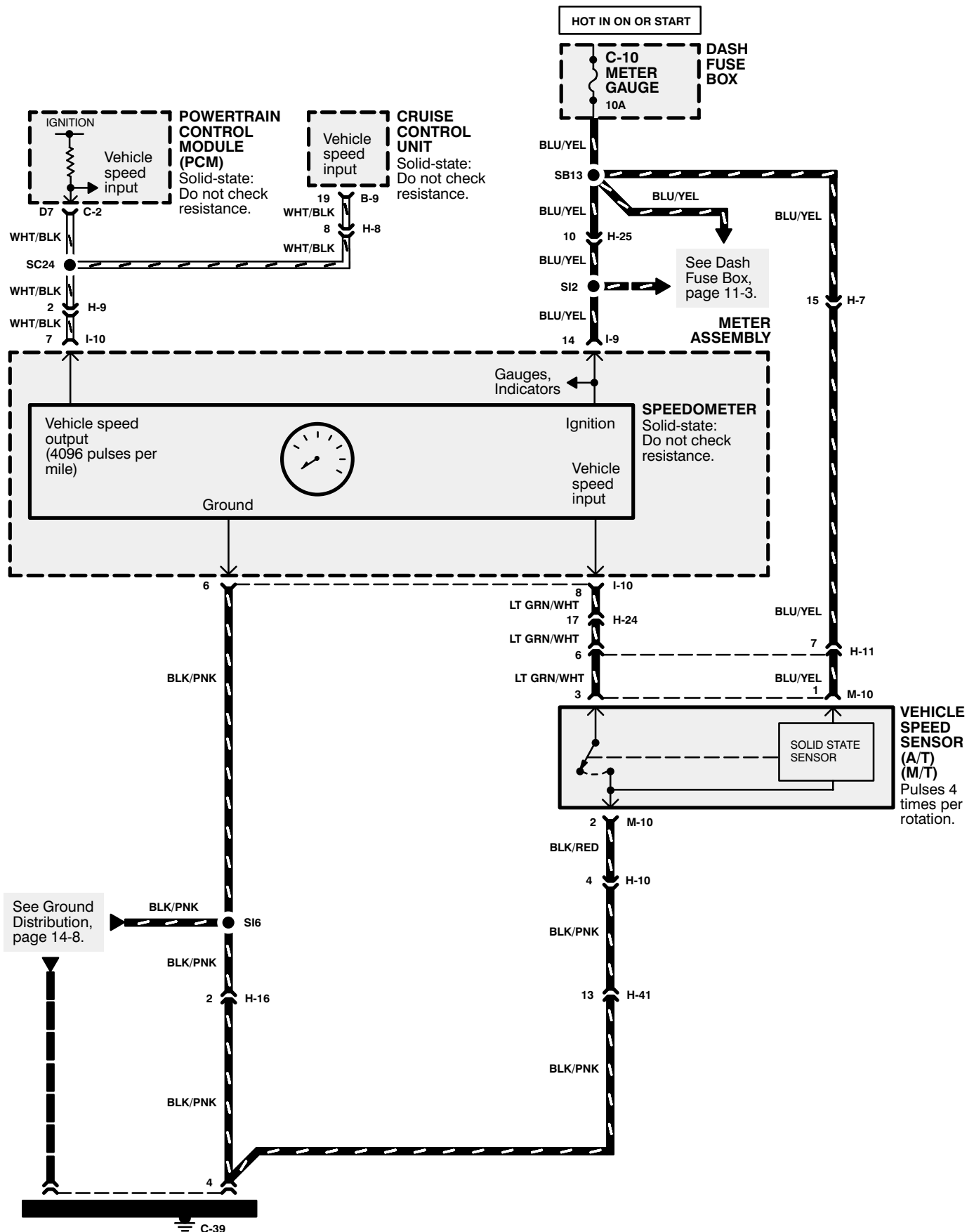
VEHICLE SPEED SENSOR

Component Index

- [Cruise Control Unit](#)
- [Dash Fuse Box](#)
- [Powertrain Control Module \(PCM\)](#)
- [Vehicle Speed Sensor \(VSS\) \(A/T\)](#)
- [Vehicle Speed Sensor \(VSS\) \(M/T\)](#)

VEHICLE SPEED SENSOR

Circuit Schematic



VEHICLE SPEED SENSOR

Component Location Index

(Refer to Section 201 for photographs.)

<u>Component</u>	<u>Photo No.</u>
Cruise Control Unit	Below right side of I/P, above dash side trim panel 71
Dash Fuse Box	Behind left dash side trim panel 51
Powertrain Control Module (PCM)	Behind the lower cluster assembly 62
Vehicle Speed Sensor (VSS) (A/T)	Beneath center of vehicle, on rear of transmission 41
Vehicle Speed Sensor (VSS) (M/T)	Beneath the center of the vehicle, on rear of transmission 119

Connector

H-7 (20-BRN/WHT)	Below I/P, above left dash side trim panel, on bracket 52
H-8 (16-BLK)	Below I/P, above left dash side trim panel, on bracket 53
H-9 (20-BLK)	Below I/P, above left dash side trim panel, on bracket 53
H-10 (12-BLU) (M/T)	Left front of engine compartment 27
H-10 (16-BLU) (A/T)	Left front of engine compartment 27
H-11 (16-BLK)	Left front of engine compartment 27
H-16 (22-WHT)	Behind right dash side trim panel 73
H-24 (18-YEL)	Below I/P, above left dash side trim panel, on bracket 53
H-25 (22-BLU)	Below I/P, above left dash side trim panel, on bracket 54
H-41 (16-BLU)	Right front of engine compartment 31
I-9 (16-BLK)	On left rear of meter assembly 45
I-10 (16-WHT)	On right rear of meter assembly 45

Ground

C-39	Right rear corner of engine compartment, on inner fender panel 40
------------	---

Circuit Operation

The vehicle speed sensor generates a signal which indicates the vehicle speed to the speedometer. The speedometer consists of a vehicle speed sensor, an ammeter (needle movement), stepper motor (odometer), and a driving circuit (printed circuit board).

The vehicle speed sensor is mounted to the transmission. The transmission pinion shaft rotates and generates four pulses per one rotation. The rate at which the pulses are generated indicates the vehicle speed. The vehicle speed sensor (incorporated in the speedometer) uses the pulses to control needle movement and sends vehicle speed information to the powertrain control module (PCM) and the cruise control unit. The speedometer sends 4096 pulses per mile and the frequency indicates the vehicle speed.