

SN74 Speedometer Calibration Module Setup

- 1) Connect a switched +12VDC source to "POWER"
- 2) Connect a good ground source to "GROUND"
- 3) Connect the red wire from a Classic Instruments SN16 pulse signal generator to "SENSOR PWR". *(if not using the SN16, do not use this connection)*
- 4) Connect the black wire from a Classic Instruments SN16 pulse signal generator OR one wire from the built-in transmission VSS (2-wire) to "SENSOR GND". *(if using an ECM speed signal, do not use this connection)*
- 5) Connect the white wire from a Classic Instruments SN16 pulse signal generator OR one wire from the built-in transmission VSS (2-wire) OR the ECM speed signal to "INPUT"
- 6) Connect "OUTPUT" to the signal terminal of the speedometer.
- 7) Connect "CRUISE" to the signal input for a cruise control module *(if needed)*. The cruise control signal is 8,000 pulses per mile (PPM).
- 8) Connect one lead from the momentary pushbutton to each of the two "PUSHBUTTON" connections.
- 9) Determine the default pulse setting for the speedometer (Classic Instruments speedometer with 8 dip switches is 8,000ppm, Classic Instruments speedometer with 12 dip switches is 16,000ppm)
- 10) If speedometer dip switches are not in the default position, set them at this time (8,000ppm speedometer 2 6 7 8 OPEN, 16,000ppm speedometer 5 6 7 8 OPEN)
- 11) Set switches on the module according to the chart below based on the speed signal you will be using.

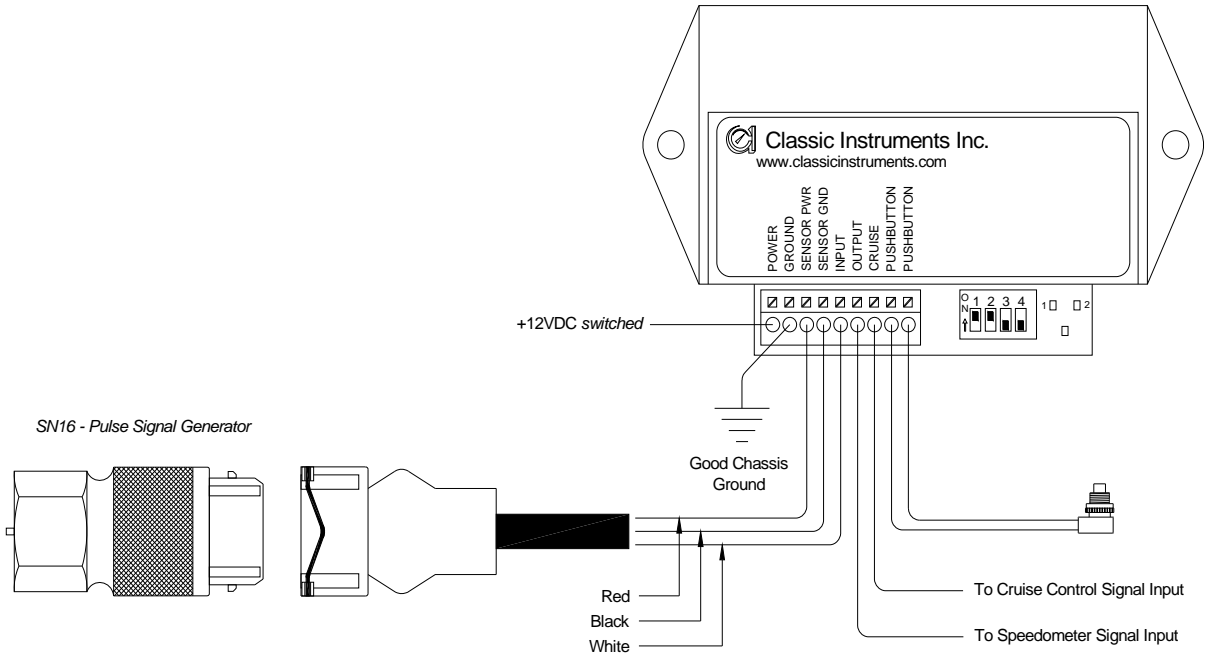
Signal Source	Gauge Type	Switch Setting
SN16 Pulse Signal Generator	8-Pulse (8,000ppm)	1 2 3 ON - 4 OFF
	16-Pulse (16,000ppm)	1 2 ON - 3 4 OFF
VSS	8-Pulse (8,000ppm)	3 ON - 1 2 4 OFF
	16-Pulse (16,000ppm)	1 2 3 4 OFF
ECM	8-Pulse (8,000ppm)	1 2 3 ON - 4 OFF
	16-Pulse (16,000ppm)	1 2 ON - 3 4 OFF

Switch 1 - OFF = signal generator speed input, ON = ECM/PCM speed input

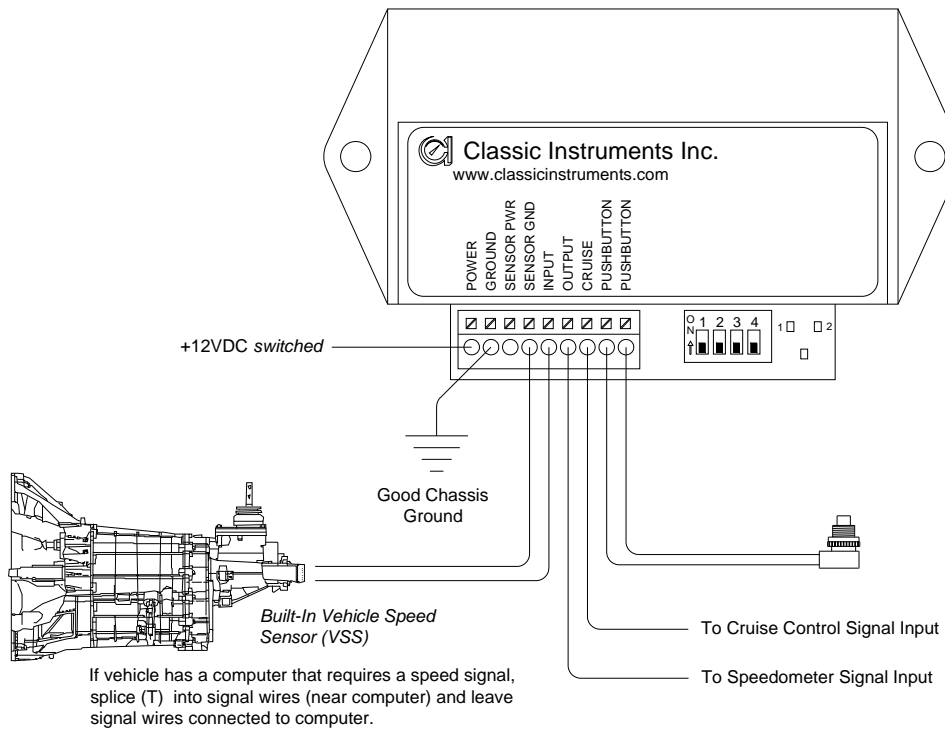
Switch 2 - OFF = high sensitivity, ON = low sensitivity

Switch 3 - OFF = 16,000ppm signal output, ON = 8,000ppm signal output

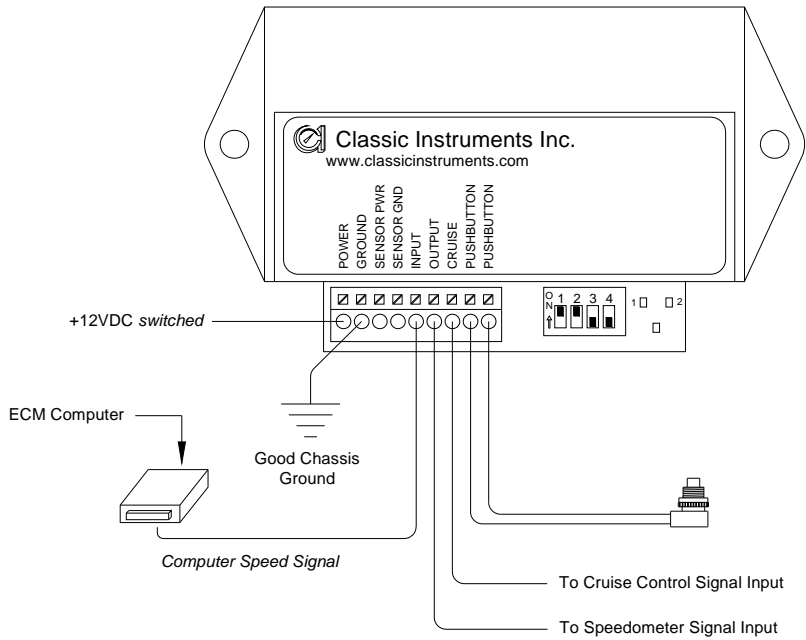
Switch 4 - *Not Used*



Module Connected to SN16 Pulse Signal Generator



Module Connected to Electronic Transmission's VSS



Module Connected to ECM Speed Signal

Entering Calibration Mode Selection

- 1) Start with the vehicle power / engine off. Push and hold the pushbutton then start the engine.
- 2) When the engine is running, release the pushbutton.
- 3) The red LED labeled "1" on the module will be lit (indicating real-time calibration mode).
- 4) Tapping the pushbutton will cause the red LED labeled "2" on the module to turn on (indicating marked mile calibration mode).
- 5) Tapping the pushbutton again will cause both red LEDs on the module to turn on (indicating reset mode).
- 6) Tapping the pushbutton once again will cause the red LED labeled "1" to turn on again. Continuing to tap the pushbutton will cycle LEDs on the module through the real-time, marked mile and reset modes.
- 7) Push and hold the pushbutton for approximately 5 seconds to enter the mode indicated by the red LED of the module.

Real-Time Calibration Mode

- 1) Enter the calibration mode selection as detailed in the "Entering Calibration Mode Selection" section of the instructions.
- 2) Push and hold the pushbutton with red LED "1" lit until LED "1" starts blinking. (*approximately 5 seconds*)
- 3) Drive a known speed (use GPS or pace another car).
- 4) The first time the pushbutton is pressed, the speed shown on the speedometer will increase. The second time the pushbutton is pressed, the speed shown on the speedometer will decrease.
- 5) The pushbutton will alternate increasing or decreasing the speed shown on the speedometer each time it is pressed. Press and hold the pushbutton to fine tune the speed shown on the speedometer.
- 6) Once the correct speed on the speedometer has been achieved, wait 8 seconds without pushing the pushbutton in order to save the calibration.
- 7) The green LED below the red "1" and "2" LEDs indicates the module is getting power if on solid and indicates that the module is receiving a signal if blinking. (the green LED will not be on solid while selecting calibration modes, but will function when a calibration mode has been entered)

Marked Mile Calibration Mode

- 1) Enter the calibration mode selection as detailed in the "Entering Calibration Mode Selection" section of the instructions.
- 2) Push and hold the pushbutton with red LED "2" lit until LED "2" starts blinking (*approximately 5 seconds*)
- 3) Begin driving a known mile. (*The green LED on the module should blink once you start moving indicating that it is getting a signal.*)
- 4) When driving the known mile, the speedometer will not indicate any speed. This is normal.
- 5) At the end of the known mile, press and hold the pushbutton until the red LED "2" goes off (*approximately 5 seconds*)

Module Reset

- 1) Enter the calibration mode selection as detailed in the "Entering Calibration Mode Selection" section of the instructions.
- 2) Tap the pushbutton until the red LED "1" and "2" are both lit.
- 3) With both LED "1" & "2" lit, press and hold the pushbutton until both red LEDs turn off. (*approximately 5 seconds*)
- 4) The module will now be reset to the factory settings.