V-Twin Mfg.
Electronic LED Speedometer and Tachometer installation
VT Part No. 39-0599 & 39-0685

This is a custom application and rider safety depends on proper installation. This product should only be installed by a knowledgeable and trained motorcycle technician. V-Twin Mfg. accepts no responsibility for improper installation.

This item should be installed by a qualified technician. Knowledge of basic wiring is essential to the successful installation of this product. Refer to the maintenance manual for the wiring diagram of your specific model motorcycle. The wire colors and pin numbers referenced are typical and should always be verified.

Voltage Range: 9-18 Volts
Calibration Ranges: 500-99,9999 pulses/mile
General Information:
This electronic speedometer utilizes an LED to display odometer and trip odometer mileage. Momentarily pressing of the "D" button on the back of gauge toggles the odometer/trip odometer information to be displayed on the LED. Pressing the button, while in trip mode for more than two seconds will reset the trip odometer. The odometer can not be reset.

Calibration (By Auto):

1. Speedometer and sender must be installed properly and all wires must be connected correctly.
2. To set the speedometer in calibration mode:
   A. With power to the speedometer OFF, press and hold "D" button.
   B. While holding the 'D" button, tum power ON to the speedometer.
   C. While the pointer moves to "1" and then down to "00000", release "D" button.
   D. Drive one-mile (or 1 km) distance and stop.
   E. Press "D" or "S" button, calibration is completed.

Calibration (By Manual):

1. Speedometer and sender must be installed properly and all wires must be connected correctly.
2. To set the speedometer in calibration mode:
   A. With power to the speedometer OFF, press and hold "D" and "S" buttons.
   B. While holding the "D" and "S" button, turn power ON to the speedometer.
   C. While the pointer moves to previous data from "2", release "D" and "S" buttons.
   D. Press "D" button to change the digital (5 sections).
   E. Press "S" button to change number (from 0-9).
   F. Press "D" button, until moving to section 6, the digital stop flushing, then Press "S" button.
   Calibration is completed.

Note: For calibrating, each step has to be finished within 20 seconds, otherwise calibration mode would be exited and returned to normal operation.

On 2000 and up models using Deutsch connectors, locate and disconnect the connector from the factory speedometer and the instrument cluster.

Install 2 Deutsch connectors to the wiring on the Speedometer/Tach unit and hook up as follows:

WIRE GROUP A From Mini Speedometer & Tachometer All Year

Color	OEM Color	Pin Number
Red = Switch Power	Orange/White	1
Black = Ground	Black	10
Black = Speed sensor Ground	Black	7
Blue = Speed Sensor Input	White	9
Orange = Speed Sensor Power	Red	8
Green = * Tachometer	*Pink wire from Ignition Module Pin 12 or coil	

Wire GROUP B from Mini Speedometer & Tachometer (2000 and up)

COLOR	OEM COLOR	Pin Number
Red = Engine Oil (Splice to Green/Yellow)	Green/Yellow	3
Red with Black stripe = Engine oil Pressure switch ground	Goes to ground	6
Blue with Black Stripe = High Beam Power (Spliced to White High beam wire)	White	2
Blue = (High Beam Ground)	Goes to ground	7
Green = Neutral Light Power (Splice to Tan)	Tan	5
Green with Black stripe = (Neutral Ground)	Goes to Ground	6
Yellow = (turn)	Violet Lt	1
Yellow = (turn)	Brown RT	4
Yellow with Black stripe (Turn signal ground)	Goes to ground	7

Wire GROUP B from Mini Speedometer & Tachometer (1999 and earlier)

COLOR	OEM COLOR	PIN Number
Red = Engine Oil (Splice to Green/Yellow)	Green/Yellow	3
Red with Black stripe = Engine oil Ground	Goes to Ground	9
Blue with Black stripe = High Beam Power	White	2
Blue = High Beam Ground	Goes to Ground	6
Green = Neutral Light Power (Splice to Black)	Tan	7
Green with Black stripe = Neutral Ground	Goes to Ground	9
Yellow = (turn)	Violet Lt	1
Yellow = (turn)	Brown RT	4
Yellow with Black stripe = Turn Signal Ground	Goes to Ground	5/10

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