

Dakota Digital

SIM-1M

SPEED RECALIBRATION UNIT FOR ELECTRIC SPEEDOMETERS

When changing the gearing or tire size of newer cycles the speedometer is no longer calibrated correctly and your speedometer reading is incorrect. The SIM-1M will allow you to adjust speedometers connected to transmissions with stock electric speed sensors. These transmissions have a sensor mounted on the side of the case that reads one of the final drive gears.

The SIM-1M has an adjustable range of correction from x2.84 (more than double) to x0.502 (half) which is broken into 256 steps. Calibration is set using the two push button switches while riding the motorcycle. Press and hold the UP button to increase the speed. Press and hold the DOWN button to decrease the speed. The unit has an internal memory which stores the calibration when the bike is turned off.

The connection is as follows:

1. Locate the three pin, connector between the speedometer and transmission speed sensor. The speed sensor is located in many locations on many motorcycles, please check service manual and if you cannot locate sensor and to get the color codes.
2. The speed sensor has a 3 pin connector. Cut the signal wire wherever you have access to it. Splice the wires of the SIM-1M into the speed sensor wires as follows:

| | |
|-------------|-------------------------|
| SIM-1M wire | sensor side |
| RED | sensor power |
| BLACK | sensor ground |
| WHITE | sensor signal |
| SIM-1M wire | speedometer side |
| RED | speedo sensor power |
| BLACK | speedo sensor ground |
| YELLOW | speedo sensor signal |
3. The SIM-1M will now be in between the speedometer and transmission speed sensor. Calibrate the speedometer. (see steps below)
4. Secure the SIM-1M into the harness on the bike so it is not hanging loose.

The calibration is as follows:

1. Follow a vehicle going at a set speed or time yourself driving one mile so you know what your speed should be.
2. Press and hold the UP or DOWN button while you are driving to change the speedometer reading until the speedometer is correct. *The bike must be moving in order to adjust the speedometer.*

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