INSTRUCTION

COMPONENTS & INSTALLATION

ASURA main unit
Bracket & Screw set
For 1" Handlebars

Magnetic Speed Sensor set

Wiring Diagram & Overview

- Green Wire (BATTERY)
- Red Wire (ACC) 12v
- Black Wire (GND)

Special wire set for 1" Handlebars
(1pc)

Special wire set for 7/8" Handlebars
(1pc)

Magnetic Speed Sensor set

2pcs/set

for 7/8 " Handle-bars

Double-sided tape

2pcs

Bracket & Screw set

1pcs

ASURA Multi Function Computer

1. Read all instructions before use.
2. Disconnect the ground wire from the negative post of vehicle's battery before installation.
3. Use ASURA computer for the intended purpose of use.
4. DO NOT disassemble ASURA computer. It may be damaged and water may come in.
5. DO NOT leave ASURA computer under the sunlight when not used.
6. Avoid contact with gasoline, brake fluid or other chemicals. It may be damaged.
7. For motorcycles that do not generate electrical speed pulse, use the supplied Magnetic Speed Sensor Set on a device/separately sold that turns mechanical speedometer cable movement into electrical pulse.
8. Removing the original speedometer may impair some original functions such as turn signal, low oil level warning and/or immobilizer.
9. Do not use the supplied Magnetic Speed Sensor Set on a device/separately sold that turns mechanical speedometer cable movement into electrical pulse.
10. Be sure that ASURA displays the right speed before used on street.
11. DO NOT hit, drop or give a shock on ASURA main unit. It may be damaged due to a precision part.
12. Rubber mounting is recommended for vehicles with much vibration.
13. After installation, check to see that all the parts are correctly installed and see if all the screws are torqued properly. 
14. Periodical inspection of the installed parts is required every 50,000km/30000miles. If anything unusual may be found while driving, stop at a safe place to check.

FUNCTIONS SPECIFICATIONS

Power: DC 12V, 150W

TOP SPEED: 50km/h (15.1 mph)

OIL TEMP: -40 - 200°C

OIL PRESS: 0.5 - 12bar

RPM: 0 - 17,000

Accuracy of speed: ±1.0%

Fuel Gauge: -10 to +210°C

Fuel consumption: 0 - 999.9l (l)

Trip Odometer 1/2: 0 - 9999.9l (l)

Trip Odometer: 0 - 99999.9l (l)

Accuracy of Temp.: ±1.0%

Voltage Gauge: ±1.0%

FUEL GAUGE: -10 to +210°C

Fuel consumption: 0 - 9999.9l (l)

Trip Odometer 1/2: 0 - 99999.9l (l)

Trip Odometer: 0 - 999999.9l (l)

Accuracy of Temp.: ±1.0%

Voltage Gauge: ±1.0%

SAFETY

- Crash Protection
- Water Resistant
- Dustproof

VEHICLE COMPATIBILITY

- Motorcycle
- Car

TITLE

You have four choices to detect the pulse, and choose one from the following.

1. Detection from ECU
2. Detection from primary wire of ignition coil
3. Detection from spark plug wire
4. Detection from Crank Position Sensor

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ENGINE SPEED PULSE DETECTION

NEVER use the other temp. sensor available on the market since the value of sensor is to be attached to the vehicle as per the instruction in “OPTIONAL PARTS” section in this manual.

DO NOT detect more or different pulses. ASURA DOES NOT display the right engine speed.

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MAXIMUM SPEED: 125 MPH

MAXIMUM RPM: 11,000

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WARNING: A detector on display shows how much distance has been traveled since the last reset. To reset, hold down (Shift) for 2 seconds.

The rpm bar graph progressively lights up as RPM increases. By setting the maximum RPM of the vehicle, the rpm bar graph will draw a line up to the RPM limit. Also, at this maximum RPM warning point, entire rpm bar graphs will jump and stop the warning point.

WARNING: A detector on display shows how much distance has been traveled since the last reset. To reset, hold down (Shift) for 2 seconds.

The max. engine speed is automatically memorized since the last reset and recalled. To reset, hold down (Shift) for 2 seconds.

The temperature display area displays either ambient temperature or water/engine oil temperature. To switch between them, press CHANGE button.

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For vehicles that DO NOT generate electrical speed pulse, use the supplied magnetic speed sensor.

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SPEED LIMITER:

The maximum speed is automatically memorized since the last reset and recalled. To reset, hold down (Shift) for 2 seconds.

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DO NOT detect two or more different pulses. ASURA DOES NOT display the right engine speed.

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DATA SETTING MODE

To enter data setting mode, hold down UP (UP) and DOWN (DOWN) for two seconds.

To go back to Normal Mode, hold down DOWN (DOWN) for two seconds.

(This button operation finalizes the data setting in ANY SETTING MODE, and returns to Normal Mode.)

SPEED CALIBRATION

You have three choices to calibrate the speed, and choose one out of the following three.

1. Manual Pulse Input
2. Auto Calibration
3. Wheel Circumference Input

To confirm and to go to the next setting, press (DOWN)

SPEED CALIBRATION "Wheel Circumference Input"

When entered in this setting mode, both ten-thousands and thousands digit flash at the same time.

To modify the flashing number, press (CHANGE).

To go to the next digit, press (SHIFT).

To finalize the setting, press (SHIFT).

When entered in this setting mode, the number of pulse obtained by the ten-thousands digit is displayed on the temp. display area.

To confirm and to go to the next setting, press (DOWN)

To confirm and to go to the next setting, press (DOWN)

To go back to Normal Mode, hold down (DOWN) for two seconds.

(1) Manual Pulse Input

You are entered in "Manual Pulse Input" mode. By manually inputting the number of pulse obtained by exact one-kilometer/mile drive, the speed is calibrated.

To confirm and to go to the next setting, press (DOWN)

To confirm and to go to the next setting, press (DOWN)

To go back to Normal Mode, hold down (DOWN) for two seconds.

(2) Auto Calibration

When entered in this setting mode, both ten-thousands and thousands digit flash at the same time.

To modify the flashing number, press (CHANGE).

To go to the next digit, press (SHIFT).

To confirm and to go to the next step, hold down (DOWN) for two seconds.

The number of pulse obtained is displayed on the temp. display area.

To confirm and to go to the next setting, press (DOWN)

To confirm and to go to the next setting, press (DOWN)

To confirm and to go to the next setting, press (DOWN)

To go back to Normal Mode, hold down (DOWN) for two seconds.

(3) Wheel Circumference Input

When entered in this setting mode, both ten-thousands and thousands digit flash at the same time.

To modify the flashing number, press (CHANGE).

To go to the next digit, press (SHIFT).

To confirm and to go to the next setting, press (DOWN)

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To confirm and to go to the next setting, press (DOWN)

To confirm and to go to the next setting, press (DOWN)

To go back to Normal Mode, hold down (DOWN) for two seconds.

Speed is displayed when the vehicle is standing.
Calibration speed sensor. Number of speed pulse input may extremely be low.

Speed is NOT displayed.
Wire connection of the speed sensor may be incorrect. Check service manual of the vehicle to see if the wires are connected correctly. By detaching the vehicle's original equipment speedometer, the power-supply to the sensor may be cut off or some vehicles. In that case, the BIKE wire(S Output) from the main unit to be connected with the positive(+) wire of the speed sensor in order to activate it.

Be sure the speed calibration is correctly done before use.

Unstable SPEED/RPM display
Be sure the black wire is firmly connected to the vehicle's frame. Painting is to be removed from the area where the ground terminal is attached.

RPM is NOT displayed
Try the other detection methods.
If the pulse needs to be detected from primary wire of ignition coil, try to connect the BROWN wire to the primary wire, even though the wire diagram indicates the GREEN wire.

LCD Display is Slow
The LCD display becomes slow as the ambient temperature goes close to zero C. 0°C or 32°F. This is NOT a defect of LCD, and LCD display becomes normal as the ambient temperature goes up.

LCD Display is Black
The LCD display becomes black when exposed to direct sunlight while not riding.
This is because of the nature of LCD, and is NOT a defect. Avoid the exposure of the main unit to direct sunlight when not riding.

Frozen Display
In case the display is frozen, disconnect the 4-P connector of the main unit for a few seconds and connect it again to restart. Or disconnect the negative wire from the battery to cut the power supply for a seconds, and the connect it again to restart.

LOW BATTERY WARNING
Before the engine start, LOW BATTERY WARNING icon goes on when the main switch is turned on. This is NOT a defect of the warning function, as long as the warning icon goes off a few seconds after the engine start.

The Others
For further help, go to the local dealer where you purchased ASURA from.