

Instruction Manual

VELONA

~V-ELECTRICAL GAUGES

Digital VELONA - twin function (Speed + RPM)

PRODUCT FEATURES

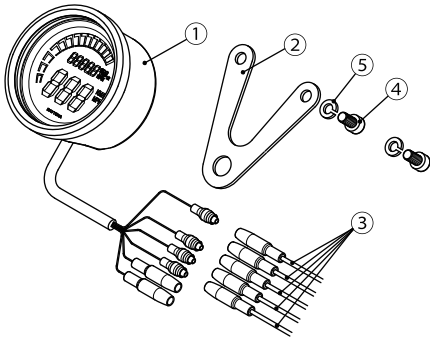
- Compact size, φ60×45mm (Depth)
- Stainless steel + black painted
- Black LCD display with white LED backlit
- KM/H (0-399KM/H) & MPH (0-250MPH) selectable
- Odometer: 0-99,999km (mile)
- Dual Trip Meter: 0-9,999.9km (mile)
- Tacho(RPM) meter: 0-20,000RPM * Min.10RPM
- RPM bar graph: "full scale" adjustable
- Ability to connect to OEM speed sensor, if the vehicle is equipped with an electrical speed sensor.
- V-shaped bracket included
- Power DC9-16 (regular 12V)

CAUTION

- Read all instructions before use.
- May need to purchase optional parts for some vehicles.
For vehicles that are NOT equipped with an electrical speed sensor, use the Proximity Speed Sensor (sold separately).
Or use a Speed Pulse Converter (sold separately) that turns mechanical speedometer cable movement into electrical pulse, if the vehicle comes with a mechanical speedometer cable.
(See the optional parts section in this manual.)
- Designed to be used on 12V system vehicle.
(Digital VELONA does NOT work with a 6V system or battery-less system.)
- Digital VELONA might not work normally when used together with other device that emits much noise.
- Use Digital VELONA for the intended purpose of use.
- Digital VELONA is for universal use, so it needs wiring for installation.
(If you are not sure about installation, consult an experienced dealer.)
- Do the wiring referring to the vehicle owner's manual.
- Do NOT disassemble Digital VELONA. It may be damaged and water may come in.
- Do NOT leave Digital VELONA in high heat when not used for a long time.
- Do NOT hit, drop and/or give a shock on Digital VELONA. It may be damaged.
- Avoid contact with gasoline, brake fluid or other chemicals. It may be damaged.
- After installation, check to see if all the parts are correctly installed, and to see if all the screws are properly tightened.
- Inspect all installed parts after 100km driving. Periodical inspection is required every 500km(300mile). If anything unusual found while driving, pull over at a safe place to check.

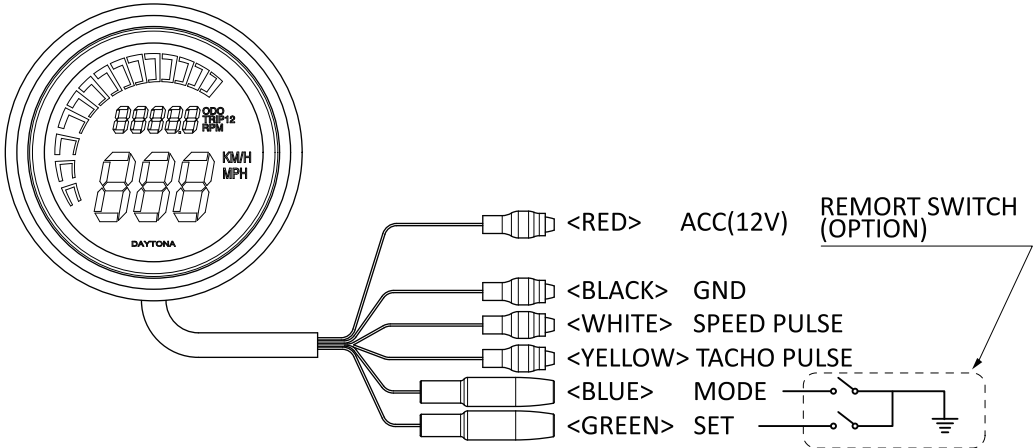
COMPONENTS

NO.	DESCRIPTION	REMARKS	Q'TY
①	Gauge Unit		1
②	V-Bracket		1
③	Exitension Wire Set	5pcs	1
④	Cap screw	M5 x 10	2
⑤	Spring washer	M5	2



WIRING

⚠ Disconnect the ground wire from the negative post of vehicle's battery before installation.



OEM Wiring Color List

	RED ACC(12V)	BLACK GND	WHITE SPEED PULSE
HONDA	black/brown or pink/blue	green	pink/green
YAMAHA	red/white or light brown	black or black/white	white/yellow or pink
SUZUKI	orange/green	black/white	pink
KAWASAKI	brown/white	black/yellow	pink or pink/blue

※OEM Wiring Color List is only for your reference. Wiring color might be different between the model, country, or model year. Please check with the vehicle owner's manual or voltmeter.

■ RPM pulse detection <Three options>

From ignition coil

Connect the yellow wire to the positive terminal/wire of the ignition coil

From spark plug code

Wind the yellow wire 5-6 times on the spark plug code, and then tape to fix it.

For 2000&up Harley-Davidson only

Connect the yellow wire to the red wire of the vehicle's crank position sensor

OPTIONAL PARTS

REMOTE SWITCH
<#87047(black)>
<#87082(chrome)>

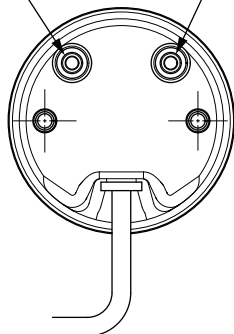
TWIN SIGNAL
SPEED PULSE CONVERTER
<#87430>

PROXIMITY SPEED SENSOR
<#87038>

RPM INDUCTION WIRE SET
<#87170>

HOW TO SET & NORMAL OPERATION

SET BUTTON MODE BUTTON



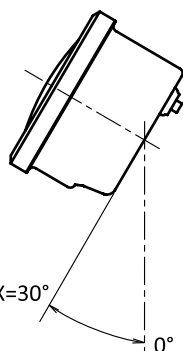
※Read all instructions before setting.

Especially for "speed calibration", initially decide which way you do

- ① Auto Calibration Mode
- or
- ② Speed Adjust Mode
- or
- ③ Manual Adjustment Mode.

If the vehicle is equipped with an electrical speed sensor,
① Auto Calibration is recommended.

MOUNTING ANGLE



Mount the gauge with angle 0°-30° to have good visibility.

NORMAL OPERATION

HOW TO SET

[ODOMETER]

8888 0 ODO TRIP12

To select speed unit "km/h" or "MPH", hold down MODE & SET together for 2 seconds.

MODE + SET 2sec

UNIT SETUP

"KM/H" in the lower display flashes.

888 0 KM/H

Press MODE button.

MODE

"KM/H" and "MPH" alternate every time MODE button is pressed.

888 0 MPH

Hold down SET button for 2 seconds at the intended unit to decide. The display automatically goes to the next speed auto calibration mode.

SET 2sec

SPEED CALIBRATION

① AUTO CALIBRATION MODE

"CALAU" appears in the upper display.

CALAU ODO TRIP12 RPM

When ready to drive, hold down SET button for 2 seconds.

SET 2sec

"go" appears.

96888 ODO TRIP12 RPM

Press MODE button.

MODE

"0" flashes.

8888 0 ODO TRIP12 RPM

Drive exactly one(1) kilometer/mile. (When driving, the lower display counts number of pulse obtained from sensor.) After driving one(1) kilometer/mile, stop the vehicle and press MODE button to finish the setting.

MODE

8350 ODO TRIP12 RPM

※8350 is sample.

Hold down SET button for 2 seconds. The display automatically goes back to the normal operation mode.

SET 2sec

② SPEED ADJUST MODE

"CALSA" appears in the upper display.

CALSA ODO TRIP12 RPM

When ready to drive, hold down SET button for 2 seconds.

SET 2sec

"go" appears.

96888 ODO TRIP12 RPM

Start driving following another vehicle that is driving at a constant speed of either 40km/h or 40MPH.

Press MODE button in driving once the actual speed of the vehicle becomes 40km/h or 40MPH to complete the speed adjustment.

MODE

The lower display will start indicating the current speed after a while. The display automatically goes back to the normal operation mode.

[TRIPMETER 1]

88853 ODO TRIP1

To reset TRIPMETER-1, hold down SET for 2 seconds.

SET 2sec

888 00 TRIP1

[TRIPMETER 2]

888136 ODO TRIP2

To reset TRIPMETER-2, hold down SET for 2 seconds.

SET 2sec

888 00 TRIP2

[RPM]

8888 0 RPM

To enter RPM SETUP, hold down MODE & SET together for 2 seconds.

MODE + SET 2sec

PPR (Pulse Per Rotation) SETUP

PP-88 ODO TRIP12 RPM

"PPr" appears. Hold down SET button for 2 seconds.

SET 2sec

"1P-1r" appears.

Select PPR from the following

Cycle	Cylinder	Puls per Revolution	setting
2	1	1 puls per 1 revolution	1P-1r
2	2	2 puls per 1 revolution	2P-1r
4	1	1 puls per 2 revolution	1P-2r
4	2	1 puls per 1 revolution	1P-1r
4	4	2 puls per 1 revolution	2P-1r
4	2	Only HD-Models 2000 and up	30P1r

To switch between engine types, press MODE button.

1P-1r ODO TRIP12 RPM

MODE

1P-2r ODO TRIP12 RPM

MODE

2P-1r ODO TRIP12 RPM

MODE

30P1r ODO TRIP12 RPM

MODE

Hold down SET button for 2 seconds at the intended type to set.

SET 2sec

RPM BAR-GRAPH SETUP

RPM BAR-GRAPH
•MAX range = 4500 to 20000

bAr-88 ODO TRIP12 RPM

"bAr" appears. Hold down SET button for 2 seconds.

SET 2sec

20000 ODO TRIP12 RPM

Ten thousands digit of "20000" flashes.

Press SET button to modify the flashing number. (Input number is 0 to 2)

SET

10000 ODO TRIP12 RPM

Press MODE button to fix and go to the next digit setting.

MODE

10000 ODO TRIP12 RPM

Press SET button to modify the flashing number. (Input number is 0 to 9)

SET

10000 ODO TRIP12 RPM

Continue this operation until the hundred digit is input. (Input number is 0 or 5 only)

SET

13500 ODO TRIP12 RPM

※13500 is sample.

Hold down SET button for 2 seconds. The display automatically goes back to the normal operation mode.

SET 2sec