

Instruction Manual



VELONA80 - RPM



Thank you for choosing a high-quality DAYTONA VELONA80 display instrument. With proper installation and connection, you will have long-lasting pleasure with this high-quality product when used as intended.

When installing, please make sure that the speed indicator is located in the immediate view of the driver. Attach the housing securely to the enclosed V-Bracket or mount with an at least equivalent holder permanently to the bike. Do not use longer screws to connect the holder to the housing, as longer screws can damage the instrument's internal components. Attach the instrument in a way that no part obstructs or restricts the steering. Route the wiring in such a way, that the full steering angle works in both directions without hindrance and no cables are pinched or under tension when the steering moves. Protect the cabling, also in the long term, against chafing and damage during the constantly occurring steering movements.

Read this assembly and installation manual before installing and operating the display instrument. Proper installation and electric connection requires technical expertise, special tools and skilled craftsmanship. If you are unsure about the installation, have it done, for your own safety, by a trained mechanic.

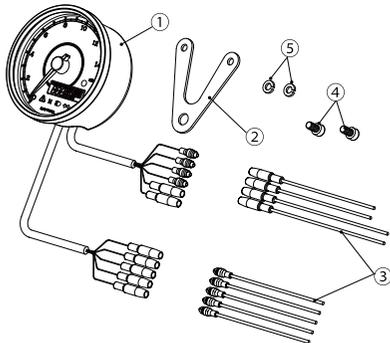
CAUTION

- Read all instructions before use.
- Needs to purchase the optional speed sensor if the vehicle does NOT come with an electrical speed sensor. Or use a converter (sold separately) that turns mechanical movement into electrical pulse, if the vehicle comes with a mechanical speedometer cable. (See the optional parts section in this manual.)
- Designed for a 12V system vehicle. VELONA gauges do NOT work with a 6V system or a battery-less system.
- VELONA gauges might not work normally when used together with other device that emits much noise.
- Use VELONA gauges for the intended purpose of use.
- VELONA gauges is for universal use, so it needs wiring for installation. Do the wiring referring to the vehicle owner's manual. (If you are not sure about installation, consult an experienced dealer.)
- Do NOT disassemble VELONA gauges. It may be damaged and water may come in.
- Do NOT leave VELONA gauges in high heat when not used for a long time.
- Do NOT hit, drop or give a shock on VELONA gauges. 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.

PRODUCT FEATURES

- Stepping motor-driven tachometer
- Stainless steel + black painted
- KM/H or MPH selectable
- Speedometer : 0-399km/h (0-260MPH)
- Odometer (NOT Resettable) : 0.0-99,999.9km (mile)
- Dual Trip Meter (Resettable) : 0.0-99,999.9km (mile)
- Ability to connect to OEM speed sensor, if the vehicle is equipped with an electrical speed sensor.
- Voltmeter : 0.0-18.0V
- Maximum speed memory and recall
- Maximum rpm memory and recall
- Indicators (turn signal[L/R], high beam, neutral, warning)
- Shift up warning
- Power DC9-16V (regular 12V)

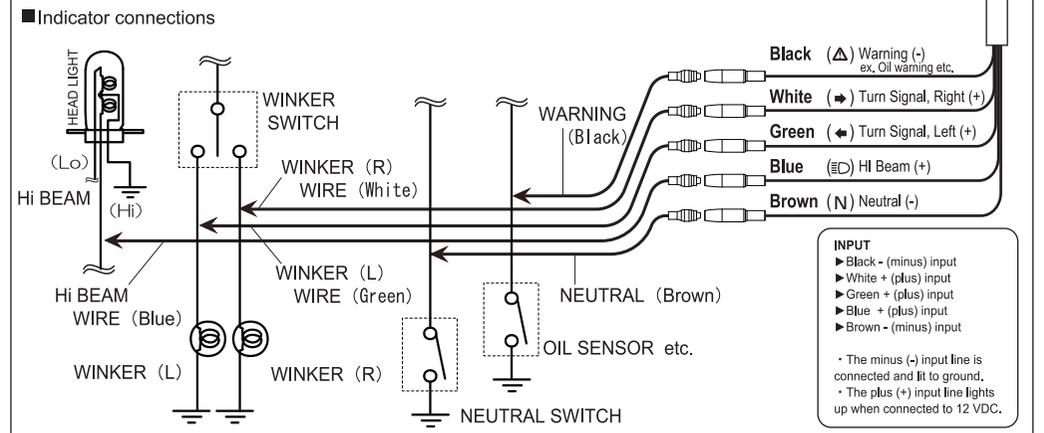
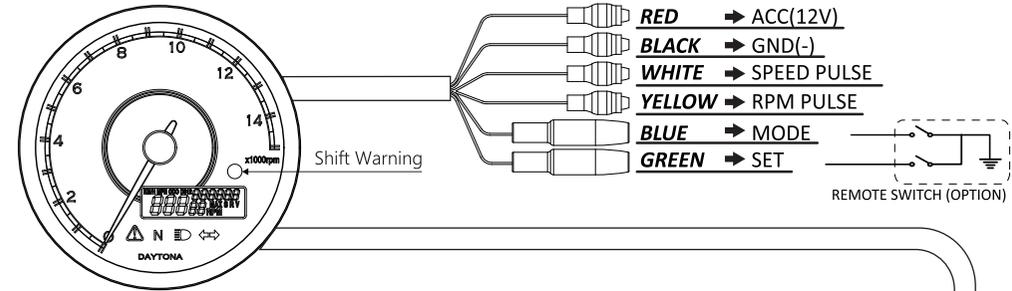
COMPONENTS



NO.	DESCRIPTION	REMARKS	Q'TY
①	Gauge Unit		1
②	V-Bracket		1
③	Extension Wire Set	9 pcs	1set
④	Cap Screw	M5x10	2
⑤	Spring Washer	M5	2

INSTALLATION

- ⚠ Wrong wiring may cause malfunction of the gauge. Make sure to have correct wiring.
- ⚠ Disconnect the ground wire from the negative post of vehicle's battery before installation.
- ⚠ The Red wire is to be connected to the wire that gives current when the main switch is turned on.



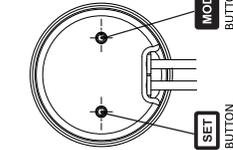
RPM pulse detection <Three options>

From ignition coil Recommended	From spark plug code	For 2000&up Harley-Davidson only
<p>Connect the yellow wire to the positive terminal/wire of the ignition coil</p>	<p>Wind the yellow wire 5-6 times on the spark plug code, and then tape to fix it.</p>	<p>Connect the yellow wire to the red wire of the vehicle's crank position sensor</p>
<p>⚠ Connect RPM pulse correctly. Wrong wiring causes malfunction of the gauge. If the RPM is unstable, insert a "Resistance 1M ohm" into the RPM Pulse line.</p>		

ATTENTION Wiring alone will not make VELONA display correct speed or RPM values. Needles may not even move after wiring.

To calibrate and test your VELONA, please see the next page for instructions.

BUTTON OPERATION AND SETUP



NORMAL MODE ※ Lower display always shows current RPM.

[ODOMETER] MODE → 42180.0 [TRIPMETER 1] MODE → 773.0 [TRIPMETER 2] MODE → 190.0 [MAX SPEED] MODE → 399.0 [MAX RPM] MODE → 2000.0 [VOLTMETER] MODE → 12.8

[SET] 2sec [MODE] + [SET] 2sec

SETUP MODE

[SPEED CALIBRATION] [RPM SETUP] [UNIT SETUP]

MODE → 5P MODE → rP MODE → km/h

[SET] 2sec [MODE] + [SET] 2sec [MODE] + [SET] 2sec [MODE] + [SET] 2sec

UNIT SETUP (KM/H or MPH)

At SETUP MODE, choose UNIT SETUP and hold down SET for 2 seconds.

[K/M/H] [MPH]

MODE ↔ [MODE]

To switch between "KM/H" and "MPH", press MODE.

Hold down SET for 2 seconds. The display goes back to NORMAL MODE.

[SET] 2sec

SPEED CALIBRATION

At SETUP MODE, choose SPEED CALIBRATION and hold down SET for 2 seconds. You can choose one way from 3 types of calibration. Before starting calibration, please choose the option which is best for you.

[CAL-AU] [MODE] → [CAL-SA] [MODE] → [CAL-NU] [MODE] →

AUTO CALIBRATION MODE

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

[SET] 2sec [MODE] → 90

Press MODE.

[MODE] → [CAL-AU]

Drive exactly one(1) kilometer/mile. (When driving, the display counts number of pulse obtained from sensor.)



SPEED ADJUST MODE

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

[SET] 2sec [MODE] → 90

Start driving following another vehicle running at constant speed of 40km/h(MPH).



40km/h(MPH) Press MODE in driving at actual speed 40km/h(MPH) to finish the setting.

[MODE] →

The display will start indicating the current speed after a while and automatically goes back to NORMAL MODE.

After driving one(1) kilometer/mile, stop the vehicle and press MODE to finish the setting.

[MODE] → [CAL-AU] [MODE] → 18133

Hold down SET for 2 seconds. The display goes back to NORMAL MODE.

※18133 is sample.

[SET] 2sec

EASY CALCULATOR

You can access the easy calculator for Velona Manual mode input calculation by scanning the QR code.

RPM SETUP

At SETUP MODE, choose RPM SETUP and hold down SET for 2 seconds.

[PPR] [MODE] → [PPR] [MODE] → 5H/ft

PPR (Pulse Per Rotation) SETUP

To switch between engine types, press MODE.

- Select PPR from the following.
- 1P-1r : 1pulse per 1revolution
 - 1P-2r : 1pulse per 2revolution
 - 2P-1r : 2pulses per 1revolution
 - 30P-1r : For 2000up Harley-Davidson only.

[MODE] → [PPR] [MODE] → 1P-1r [MODE] → 1P-2r [MODE] → 2P-1r [MODE] → 30P-1r [MODE] →

Hold down SET for 2 seconds at the intended type to set. The display goes back to NORMAL MODE.

SHUT UP WARNING SETUP

[SET] 2sec [MODE] → 03000

* DEFAULT: 03000
MAX: 20000

Press SET to modify the flashing number. (Input number 0 or 1 only)

[SET] 2sec [MODE] → 13000

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

[MODE] → [SET] 2sec [MODE] → 13000

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

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

[SET] 2sec [MODE] → 13500

※13500 is sample.

Hold down SET for 2 seconds. The display goes back to NORMAL MODE.

OPTIONAL PARTS

★ For the detailed information on optional parts, please kindly visit our website by scanning the QR code →

FAQ

- **Speedometer does not work correctly.**
 - ▲ Speed calibration has to be completed before testing the speedometer. Check if calibrated correctly.
 - ▲ Check the white wire of the VELONA if speed sensor wire is connected correctly.
- **How can I check if speedometer is working or not?**
 - ▲ Go to the speed calibration settings. Choose Auto-Calibration mode (displayed as CAL-AU). Touch the speed sensor wire from the VELONA to the negative terminal of the battery.
 - ▲ Check if the number on the display increases or not. If increases, speedometer is functional.
- **Meter needle stops working while riding the motorcycle.**
 - ▲ The meter cable may get affected by the noise from the motorcycle. Keep the meter cable away from the high voltage components such as plug chords and ignition coils.
- **The Speedometer moves while engine is idling.**
 - ▲ Check if battery is drained or not.
 - ▲ Keep the meter cable away from high voltage components such as plug chords and ignition coils.
 - ▲ If the speedometer malfunctions due to noise, add a capacitor (2.2uF/50V) between 12V and GND wires.
- **RPM is not displayed correctly.**
 - ▲ Try changing the RPM pulse detection to one of the other methods. Connecting to the primary terminal of the ignition coil is recommended.
 - ▲ Add a 1 MΩ resistor to the RPM signal line.
- **Lens is fogging up.**
 - ▲ If the lens becomes foggy due to condensation, remove the button rubber on the backside of the VELONA and allow it to dry for a few hours.
- **Can I transfer my odometer readings from previous speedometer?**
 - ▲ Odometer can not be adjusted on VELONA speedometers.