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<https://pzracing.it/download/>



IMPORTANT: For cars are necessary electronic coils.

IMPORTANT: All PZRacing products are water resistant but not waterproof, do not wash the product under water jet pressure, the product could be irreparably damaged.

Installation

Led bar installation

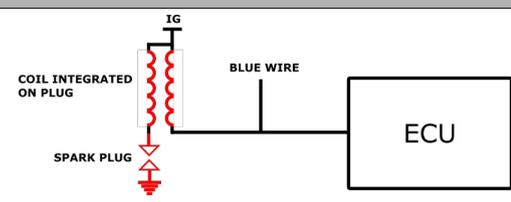
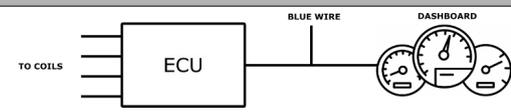
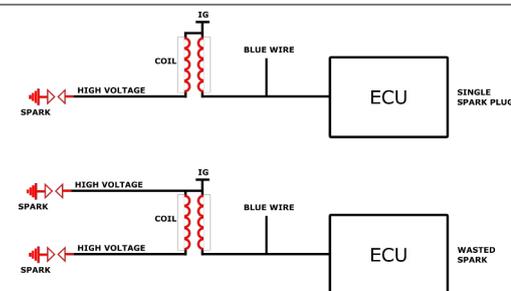
The main module has to be positioned in a way as to benefit from optimal visibility. When you have found the ideal position, you can secure the indicator by using the supplied adhesive material which can be found in the box or by using the two supplied screws to the two holes at the back of the device.

Electrical connections

Refer to the applications table for the most common motorcycles, in any other case use general instructions below:

Red: Ignition switched 12V - **Brown:** Ground - **Blue:** Tachometer - **Green:** Alarm signal

Refer to the following diagrams for connection on cars, alternatively an accessory is available for detecting signals from the vehicle's OBD port:

Latest generation cars (from 2000/05 and later)	
<p>On the latest generation cars, the coil is usually integrated on the spark plug, the connection must be made at the output of the control unit on the cable that controls the electronic coil. The coil can have 2 or more cables, in the case of more cables usually the signal cable has a smaller section, however it is always recommended to check the car wiring diagram</p>	
Cars between '90 and '00	
<p>Many cars have a dedicated dashboard signal coming directly from the ECU, usually identified on the ECU as Tacho-OUT</p>	
<p>Alternatively, it is possible to connect to the low voltage signal of one of the coils</p>	

Usage

Turning on/off the device

LighTronic works completely automatically, the switching on and off of the device will operate using the key of the vehicle.

Set-up (a video tutorial is available on our website, <https://pzracing.it/download/>)

It's necessary set the indicator before use, just set the rpm for the lights up of the lateral leds and the rpm for the central shiftlight; all the other rpm for the other leds will be processed automatically.

- 1- Under "PZRacing" logo there's a button, keep the button pressed and turn on the LighTronic
- 2- Release the button, the green leds begin to blink
- 3- Turn on the vehicle in "Neutral"
- 4- Bring the engine up to the engine revs where you would like to set the green leds (first level); for example if you want to set 6000rpm simply bring the engine to 6000rpm for a moment, the indicator will set the maximum rpm
- 5- Press the button under logo, the red led starts to blink
- 6- Bring the engine up to the engine revs where you would like to set the red led (last rpm level) for a while
- 7- Press the button under logo again, the red led will stop to blink and the set-up procedure ended



Operating mode (a video tutorial is available on our website, <https://pzracing.it/download/>)

Different operating modes are available, you can scroll through the different modes by pressing the button behind the "PZRacing" logo during normal product operation



Led brightness setting

The brightness of the LEDs is managed completely automatically by LighTronic thanks to the sensor positioned on the side of the PZRacing logo. The intensity of the LEDs will be at its maximum during the day and will gradually decrease as the light detected by the sensor decreases.

Alarm detected

By connecting the green wire it will be possible to manage an alarm input to warn the rider about an engine problem such as overheating, low engine oil pressure, etc. It will be necessary to connect the green wire to a compatible sensor or to a data acquisition, control unit or dashboard with an alarm output. The detected signal is active low.



Demo mode

Connect the green, the blue and black wire together (ie by connecting the green and the blue wire directly to "ground") then turn on the device; the LighTronic will enter DEMO operating mode, it will pass all the operating modes in sequence with a random sequence of lights.

Troubleshooting

A manual for solving the most common problems is available directly on our site: <https://pzracing.it/download/>

If you encounter problems with the installation, you can send an email to our customer service at tech@pzracing.it