



Tegiwa Shift Light

IMPORTANT: Electronic coils are necessary for car installations.

IMPORTANT: Do not wash the product under water jet pressure, as this could cause irreparable damage.

Installation

LED Bar Installation

The main module should be positioned for optimal visibility. Once you have found the ideal position, secure the indicator using either:

- The supplied adhesive material included in the box
- The two supplied screws in the holes at the back of the device

Electrical Connections

Refer to the applications table for the most common motorcycles. For other applications, use the general instructions below:

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

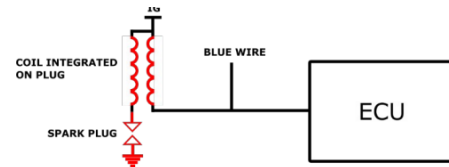
Refer to the following diagrams for connection on cars. Alternatively, an accessory is available for detecting signals from the vehicle's OBD port:

Latest Generation Cars (from 2000/05 and later)

On 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 multiple cables, the signal cable usually has a smaller section. However, it is always recommended to check the car wiring diagram.

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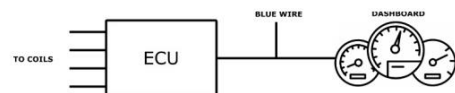


Cars between '90 and '00

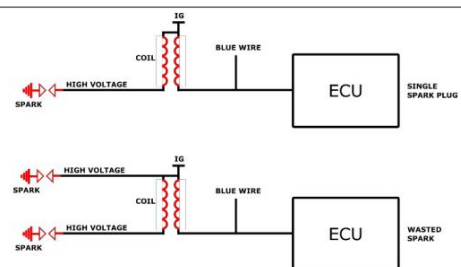
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Usage

Turning On/Off the Device

Tegiwa Shift light works completely automatically. The device will turn on and off with the vehicle's ignition key.

Set-Up

Before use, it's necessary to set the RPM thresholds for the lights. You need to set:

1. The RPM for the lateral LEDs to light up
2. The RPM for the central shift light

All other RPM levels for the remaining LEDs will be calculated automatically.

Set-Up Procedure:

1. Locate the button under the logo and keep it pressed while turning on the Tegiwa Shift light
2. Release the button; the green LEDs will begin to blink
3. Turn on the vehicle in "Neutral"
4. Bring the engine up to the desired RPM for the green LEDs (first level)

- For example, if you want to set 6000 RPM, bring the engine to 6000 RPM for a moment
 - The indicator will set this as the maximum RPM for this level
5. Press the button; the red LEDs will start to blink
 6. Bring the engine up to the desired RPM for the red LED (final level) and hold for a moment
 7. Press the button again; the red LED will stop blinking and the set-up procedure is complete

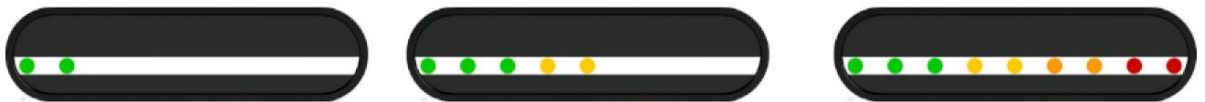
Error Indication

If RPM is not detected (due to incorrect wire connection) or if the threshold set for red LEDs is lower than that of the green LEDs, Tegiwa Shift light will display an error by rapidly blinking both red and green LEDs.

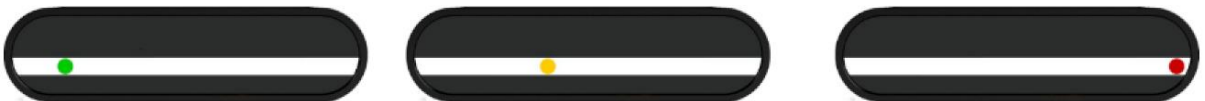
Operating Modes

Different operating modes are available. Scroll through the modes by pressing the button behind the logo during normal operation:

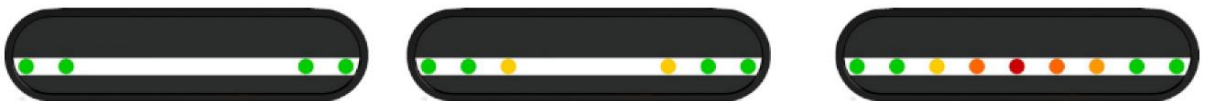
- **Linear Bar:** LEDs light up progressively from left to right in a continuous bar



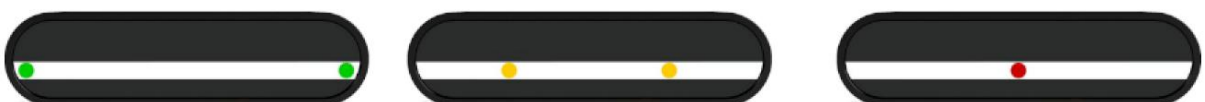
- **Linear Dot:** Single LED illuminates and moves from left to right



- **Convergent Bar:** LEDs light up from both ends toward the centre



- **Convergent Dot:** Single LEDs illuminate from both ends and move toward the centre



- **Battery Level:** Displays the current battery voltage status



LED Brightness Setting

The brightness of the LEDs is managed automatically thanks to the light sensor positioned on the side of the logo. LED intensity will be at maximum during daylight and will gradually decrease as ambient light diminishes.

Alarm Detection

By connecting the green wire, you can set up an alarm input to warn of engine problems such as:

- Overheating
- Low engine oil pressure
- Other critical conditions

Connect the green wire to a compatible sensor, data acquisition system, control unit, or dashboard with an alarm output. The detected signal is active low.



Demo Mode

Connect the green, blue, and black wires together (i.e., by connecting the green and blue wires directly to "ground"), then turn on the device. The Tegiwa Shift light will enter DEMO mode, cycling through all operating modes in sequence with random light patterns.

Troubleshooting

If you encounter problems with the installation, please contact our customer service at websales@tegiwa.com.