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## Features/Installation/Setup Manual

Thank you for using the Popformance WIZIM – Electronic Boost Controller.

<http://www.popformance.com>

### Features

- TPS Input for throttle tip/boost control (Special)
- Peak and Hold on both Boost Pressure and TPS input
- Boost By RPM Capable (Feature available soon with firmware upgrade)
- Flippable, for unit to be mounted on either the left or right side (Buttons on left or right)
- Controls up to 64psi of boost (Sensor Dependent)
- USB Datalogging with Software Package available (Download from our website)
- Free firmware upgrades when available
- Screen Dimming with input from Headlights
- Large 2.8" Screen with Blue Backlight
- Two 12V digital outputs for solenoids or user added output

### Options

- 36psi Pressure Sensor
- High Pressure Solenoid
- Gloss Silver, Gloss Black, or Flat Black (Other colours special order)

In most packages, the 36psi Pressure sensor and the High Pressure Solenoid are included. The **WIZIM** is able to recognize some other Pressure sensors and High Pressure solenoids. If you are upgrading, or just plainly want to use some of the stock components in your car to save money, the **WIZIM** is capable.

## Installation

### *Electrical:*

There are 8 wires that are used in this product. Four wires are mandatory and the other four are optional.

- Red → 12V (Ignition)
- Black → Ground
- Green → Pressure Sensor
- Blue → Solenoid (There are two blue wires, each to control an individual solenoid)
- Brown → RPM Input
- Yellow → Throttle Position Sensor
- Gray → Back Light for automatic dimming of the unit

NOTE – If you are not using the Throttle Position Sensor (Yellow), please connect it to ground. Failure to do so may cause undesirable results in the Controller.

For the 36psi pressure sensor provided by Popformance, there are 3 wires mandatory wires

- Red → 12V (Ignition)
- Black → Ground
- Green → WIZIM pressure sensor input

### *Pressure Hoses:*

For optimal performance and greatest response time, there are a few ideal placements for the pressure hoses.

- Pressure sensor air input should be tapped on the intake manifold at an open port
- Air In hose to Pressure Solenoid should be tapped right after the compressor housing outlet.
- Air out hose from Pressure Solenoid should be fed right into the Exhaust wastegate actuator

## Setup

After you've just connected all of the wiring on the **WIZIM**, you must first setup and calibrate the controller. First, turn on the ignition only.

If this is your first time turning on the controller, you will be greeted with a screen indicating the product you now have. Press any button on the controller and follow the prompts. Without following the prompts the controller will not work correctly. If you miss the prompts, you will be able to go back to the prompts manually.

1. Turn on the ignition only.
2. Go to the screen that says, "Calibrate Boost."
3. Press the centre button on the controller
4. Go the screen that says, "Calibrate TPS."
5. Press the centre button on the controller
6. Follow the prompts (It will ask you to press the gas pedal, then take your foot off, then complete sequence again)

If this is not the first time the controller has been turned on but has been placed in a different car than it was originally, you will need to calibrate the controller for the car. Follow the six steps listed above to calibrate the controller.

### *First time Driving*

This procedure is recommended to ensure you have set the unit up in a safe manner. The **WIZIM** is automatically set to a gain pressure of 5psi. In most cases this number will work. You may find that the car never achieves the proper desired target boost pressure. In this case you will adjust the gain to a different number.

Turn on the peak and hold feature if it's not already turned on, and clear it by going to the main screen and pressing the centre button to clear any saved peaks. Complete a fully loaded run (This is ideally at Wide Open throttle). Take note of maximum pressure that the engine achieves. If you are under your desired boost pressure, lower your gain by one PSI. If you are over, raise it by one PSI. Go back to the main screen and press the centre button to clear the peak again. Repeat these steps until you've reached the desired boost pressure.

## Using the WIZIM

When navigating the WIZIM, there are a few simple functions to alter the settings to obtain the desired result. In most cases, the top and bottom solid buttons will change the page. Pressing the centre button will accept the change. And scrolling up or down will alter the settings.

On the Main screen that shows Boost pressure, pressing the centre button will clear the values that are stored in the peak and hold.

## Disclaimer

Popformance, or any of its holders do not assume any liability for damage or misuse of the product, or any damages created in the use of this product. The use of the **WIZIM** is entirely at the discretion of the purchaser and/or operator of the **WIZIM**. It is understood that the **WIZIM** is classified as an Automated Solenoid Controller to be used to regulate the air pressure in the intake tract of an automobile, and as such, should be restricted to use only under these circumstances. Popformance assumes the right to amend this Disclaimer at any time as it requires, and the new terms are immediately placed in effect and assumed by the user. By using this product, the user agrees to all statements in this disclaimer.

**WARNING** — Increasing the air intake pressure in a turbocharged vehicle can cause catastrophic failure to an automobiles engine if completed incorrectly. It is strongly recommended that the engine be upgraded according to the amount of intake pressure changed. In most cases, an increase to the fuel flow can counteract potential problems when increasing the air pressure.

## Manual Revision

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