

**NOTE: This is an excerpt from the User Manual. The Full manual will be published prior to shipment of product.**

## Hi-Performance (Exhaust-Valve) Controller

(OPTIMA-TECH™)

### User Manual

Congratulations on the purchase of your new **Hi-Performance Controller**.

Give your car a split personality every time the accelerator pedal goes down. From a **purr** to a **ROAR!!!!**

This Controller has all the smarts to control up to two exhaust valves 12-volt dc electric motors or two 12-volt dc air/vacuum solenoids (normally-closed) for vacuum or boost pressure exhaust valves. It is fully microprocessor controlled and the exhaust valves are operated via a solid-state ic motor driver. So, there are no switching relays. It has been designed with quality components to ensure longevity of your Controller. It delivers accurate timing control of the exhaust valves that no other controller is capable of achieving. Complexity is on the inside; simplicity is on the outside.

The **Hi-Performance Controller** has been specifically designed to accept a variety of input options for control of the exhaust valve(s). It automatically opens and closes your exhaust valve(s) by simply depressing your accelerator pedal. With two settings available a **“Hi”** and **“Lo”**, allows the exhaust valves to open either with a small depression of the accelerator pedal or a greater depression of the pedal. The Controller also has an Open button **“O”** and a Close button **“C”**, so for every press of either button will either fully open or fully close the exhaust valve(s). The Controller can be fitted to both new vehicles with fly-by-wire as well as older vehicles with mechanical linkages to the accelerator pedal. If your vehicle has an accelerator pedal kick-down switch, then you can simply wire into it. Please note that for older vehicles with linkages to the accelerator pedal and no kick-down switch, then a quality heavy duty momentary push-on switch (normally-open) is required to be installed (included). The **“Hi”** and **“Lo”** settings will be the same when the Controller is installed in older vehicles.

**Note:** The **Hi-Performance Controller** automatically reads from its memory the duration of the exhaust valve opening cycle (from when the Controller was programmed with the duration time) and calculates the exact time required to close even if the valve has not fully opened due to the accelerator pedal being released quickly. Therefore, the valve does not experience excess power drive that causes damage to exhaust valves. Now that is definitely smart! The wireless remotes that are bought online with the exhaust cut-outs DO NOT HAVE THIS IMPORTANT FEATURE.

## Hi-Performance Controller and wiring harness overview



| <b>Parts List</b> |  |
|-------------------|--|
| <b>Qty</b>        | <b>Description</b>                               |
| 1                 | User Manual                                      |
| 1                 | Hi-Performance Controller with Wiring Harness #1 |
| 1                 | Wiring Harness #2 with Cigarette Lighter Plug    |
| 1                 | Momentary Push-On Switch                         |
| 4                 | Quick-splice terminal connector                  |
| 4                 | Heatshrink butt-wire crimp connector             |
| 2                 | Spade terminal connector - insulated (female)    |
| 6                 | Cable/Zip Tie                                    |
| 1                 | Double-sided tape                                |