



# ***HEMI 2-Step Launch Controller***

## **Modern Muscle Xtreme HEMI 2-Step Launch Controller Installation and Instruction Manual**

Version 1.0 - Date: 7/28/25

### **Overview**

This manual provides comprehensive instructions for installing, operating, and maintaining your plug-and-play HEMI 2-Step launch controller by MMX.

### **Product Overview**

This 2-Step Controller is designed to control the coil packs at each of the 8 cylinders on your v8 HEMI engine. Please note that this product requires your vehicle to be tuned prior to use.

#### **Key Features:**

1. **Seamless Control:** The controller provides accurate control of launch RPM.
2. **Plug-and-Play:** This is a plug-and-play system that is easy to install and remove if necessary.
3. **LED Screen:** Integrated LED display provides you with a means to precisely dial in your preferred engine RPM setpoint.
4. **Durable Design:** The controller is engineered with high-quality components for reliable performance under various driving conditions.



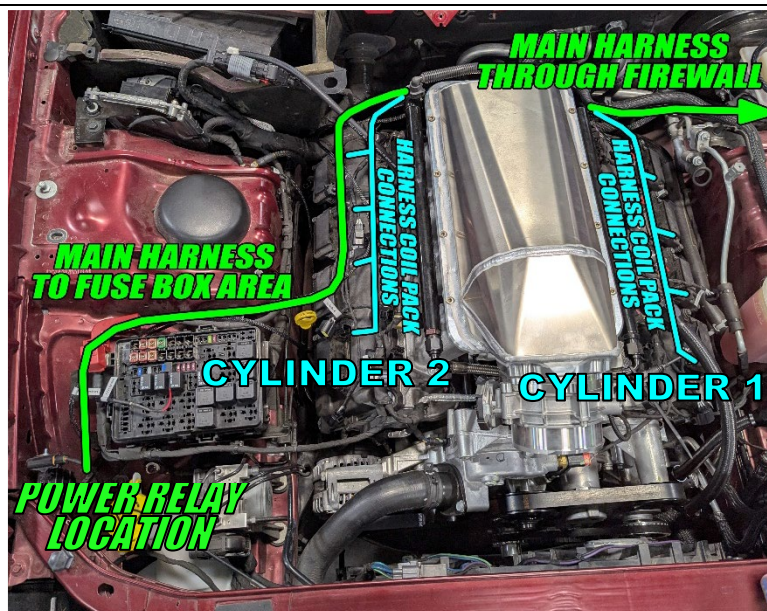
Modern Muscle Xtreme  
340 Colonel Lee Road  
Martinsville, VA 24112  
276-666-1934

### Initial Installation Note

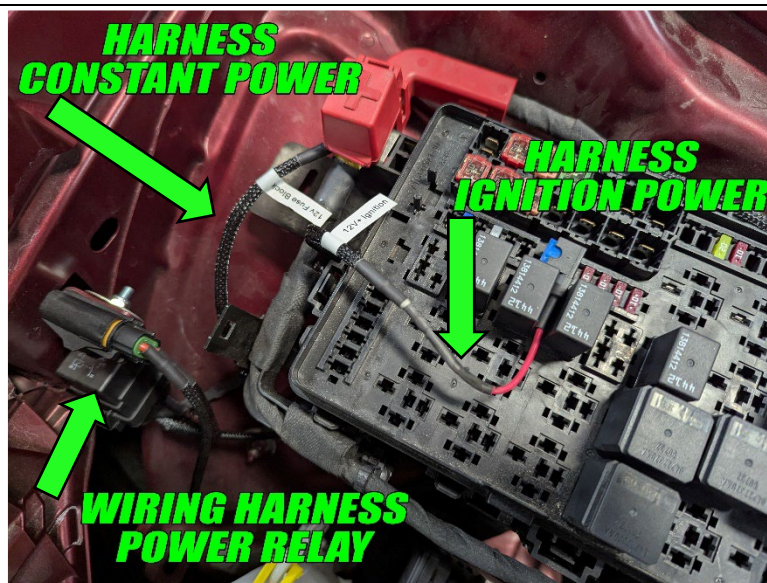
1. To begin this installation, start by disconnecting the negative battery terminal from the vehicle.

2. Next, layout the new 2-step harness according to the photo on the left.

**Note** that the driver side and passenger side coil pack connection arms of the harness have labels on them denoting the cylinder number for the coil pack they are to be connected to. The photo on the right shows their correct orientation with cylinder 1 being on the driver side front of the engine.



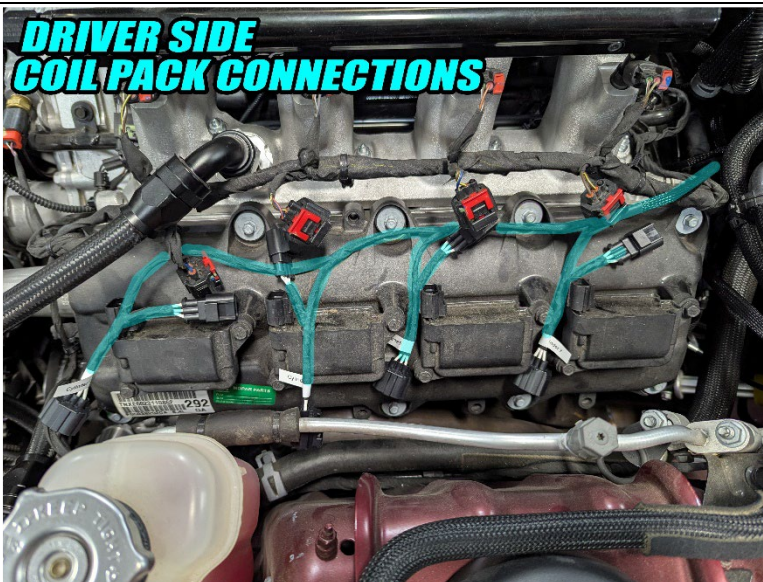
3. In this step, the power relay included with this product should be mounted to the chassis as shown in the photo. Now is also a good time to connect the constant 12v power wire, the ignition-on trigger wire, and the ground wire to the chassis ground location a little further back behind the strut tower.



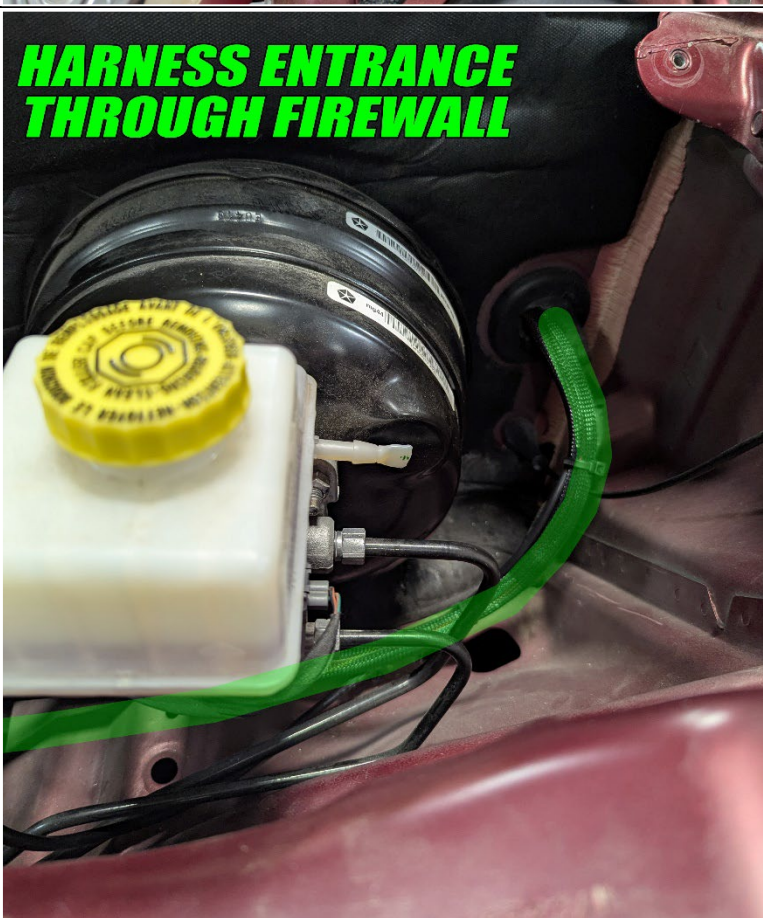


4. Next, begin connecting the coil packs on the driver side starting from cylinder 1 on the left to the final coil pack on the right at cylinder 7, making sure to keep the harnesses dedicated cylinder labels attached to the correct coil pack.

Repeat this same step for the passenger side coils with cylinder 2 starting at the front of the engine and working your way back finishing at cylinder 8.



5. Run remaining wiring harness through the firewall as shown in the photo. The remaining harness will have a 12-pin plug for the connection to the controller and 2 more plugs (the round plug will not be used in this application) with the 2-pin plug being used for the push button.



## HEMI 2-Step Launch Controller

6. Inside the vehicle, run the 12-pin controller plug under the dash, all the way into the glove box so that the controller can be mounted in a secure location.

While running the harness under the dash, leave the 2-pin trigger button plug at the center of the console as shown so that it can be connected in the following steps.



7. With the 12-pin plug for the controller inside of the glove box, you can now mount the provided controller box holding bracket to the glove box latch as shown.



**Note** that this isn't a necessary step and that you can mount the box wherever it suits you best. This mounting location might not work for all vehicles Gen3 HEMI powered vehicles.





8. Next, for the trigger button we send with this kit, we chose to mount it in the center console as shown.

You can mount this button wherever it suits you best. This is merely a recommendation.



9. First remove the center console piece and drill a 1/2" hole similar to the location shown in the photo. Feed the 2-pin trigger button wire harness through the hole as shown.

Once the pins are through the provisioned hole, you can then install the pins in the provided plug to prepare them for connection to the main harness.

**NOTE:** Polarity does not matter on these pins, either wire can be installed into either cavity in the connector.



10. With the pins installed in the provided plug, run the trigger button wire harness through the center console towards the main wire harness 2-pin connection as noted in step 6.

Make the connection as shown below and tuck the wires safely back under the dash area and secure them so there is no chance of them moving while operating the vehicle.



11. Reassemble your center console with the trigger button now in place for operation of the 2-step controller.





## ***HEMI 2-Step Launch Controller***

### **MMX 2-Step Launch Controller Operation**

#### **1. Setting Your Desired HEMI Engine Launch RPM**

- Start your vehicle and simply turn the knob until the screen displays the desired launch RPM.
- Holding the activation button will activate the 2step
  - While activated, the controller continues to monitor engine speed and intelligently chooses which coil to deactivate at any given time.
- Releasing the 2step activation button will allow all coils to function normally.

## **Troubleshooting**

- **No Green Power LED Light at Controller Plug:**
  - Ensure the system is powered on and check all power connections.
  - Ensure that the fuse is installed in the harness and it is not damaged.