MODERNMUSCLEXTREME.com

Whipple 3.0L Boost Controller

Modern Muscle Xtreme Whipple 3.0L Boost Controller Installation and Instruction Manual

Version 1.2 - Date: 1/23/25

Overview

This manual provides comprehensive instructions for installing, operating, and maintaining your Supercharger Bypass Valve Controller, an advanced aftermarket solution designed to optimize your vehicle's performance by precisely controlling the supercharger bypass valve.

Product Overview

The Supercharger Bypass Valve Controller is designed to control the bypass valve on vehicles equipped with a supercharger. The system works by adjusting the bypass valve position according to user input, ensuring optimal control of the supercharger.

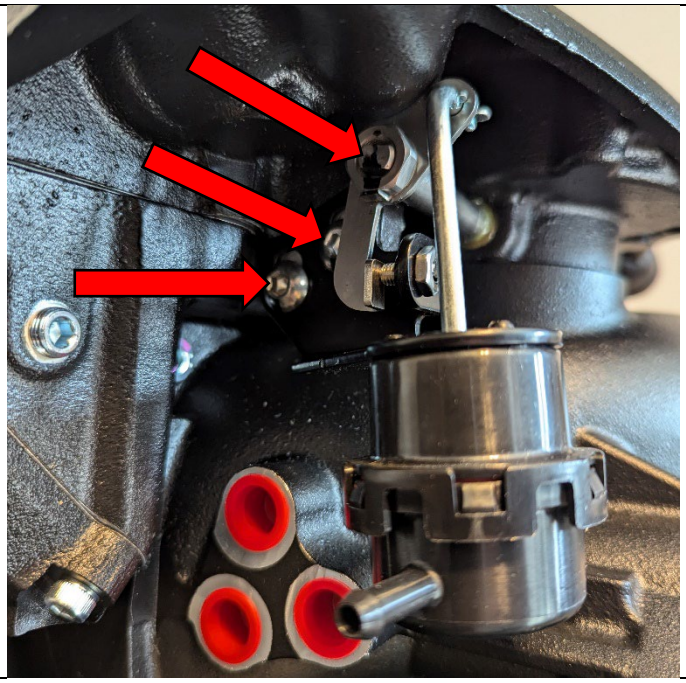
Key Features:

1. **Seamless Control**: The controller provides smooth and accurate control of the bypass valve, ensuring precise airflow regulation and optimal boost control.
2. **User-Friendly Calibration**: This system allows for simple calibration utilizing simple LED indicators ensuring proper adjustment.
3. **LED Indicators**: Integrated **LED indicators** provide real-time feedback on system status, calibration progress, and potential errors.
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

Whipple 3.0L Boost Controller

Initial Installation Note

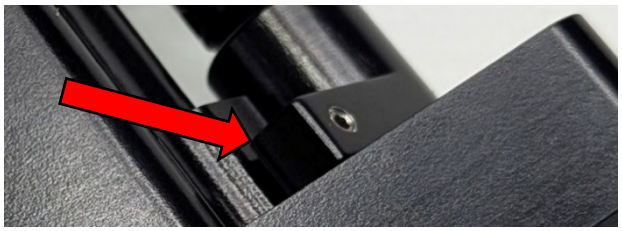
1. Remove the OEM vacuum actuator and control arm from the bypass valve shaft by loosening the two M8 bolts and the nut on the end of the bypass valve shaft.	
2. Once the stock vacuum actuator and control arm have been removed you are now ready to install the MMX boost controller.	

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

Whipple 3.0L Boost Controller

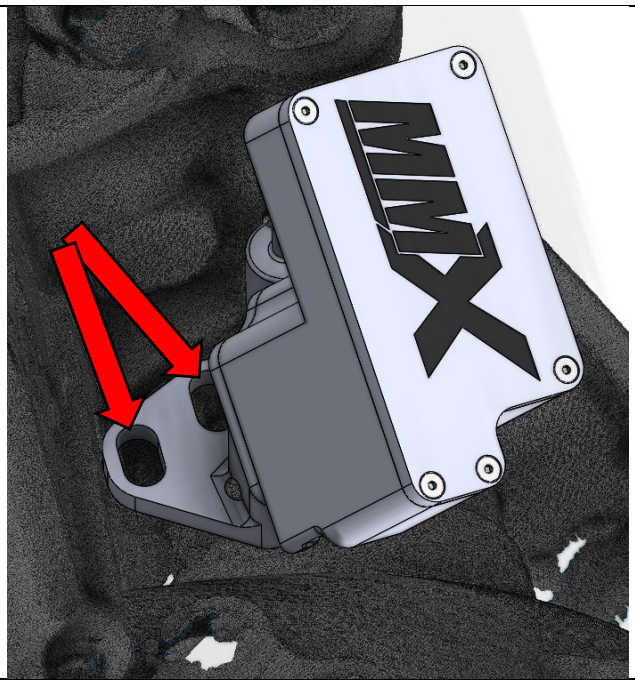
3. In order to mount the MMX boost controller onto your Whipple 3.0L, first make sure the bypass valve shaft is rotated almost fully counterclockwise so that it will correctly align with the boost controller arm.

   The controller arm is slotted to match the bypass valve shaft end cuts. Its also a good time to make sure the boost controller shaft is properly seated in its home position with the adjustment screw arm almost touching the controller housing as shown below.



4. Once the control arm is properly seated onto the bypass valve shaft, rotate the mounting plate on the controller as shown in the image to the right and use the factory M8 bolts to semi-secure its position. Do not completely tighten the bolts before checking to make sure controller linkage allows for rotational movement without binding.

   With the controller in place, gently rotate the bypass valve shaft and controller arm a little clockwise and counterclockwise to make sure it isn't bound up. Tight bolts and check rotational movement.

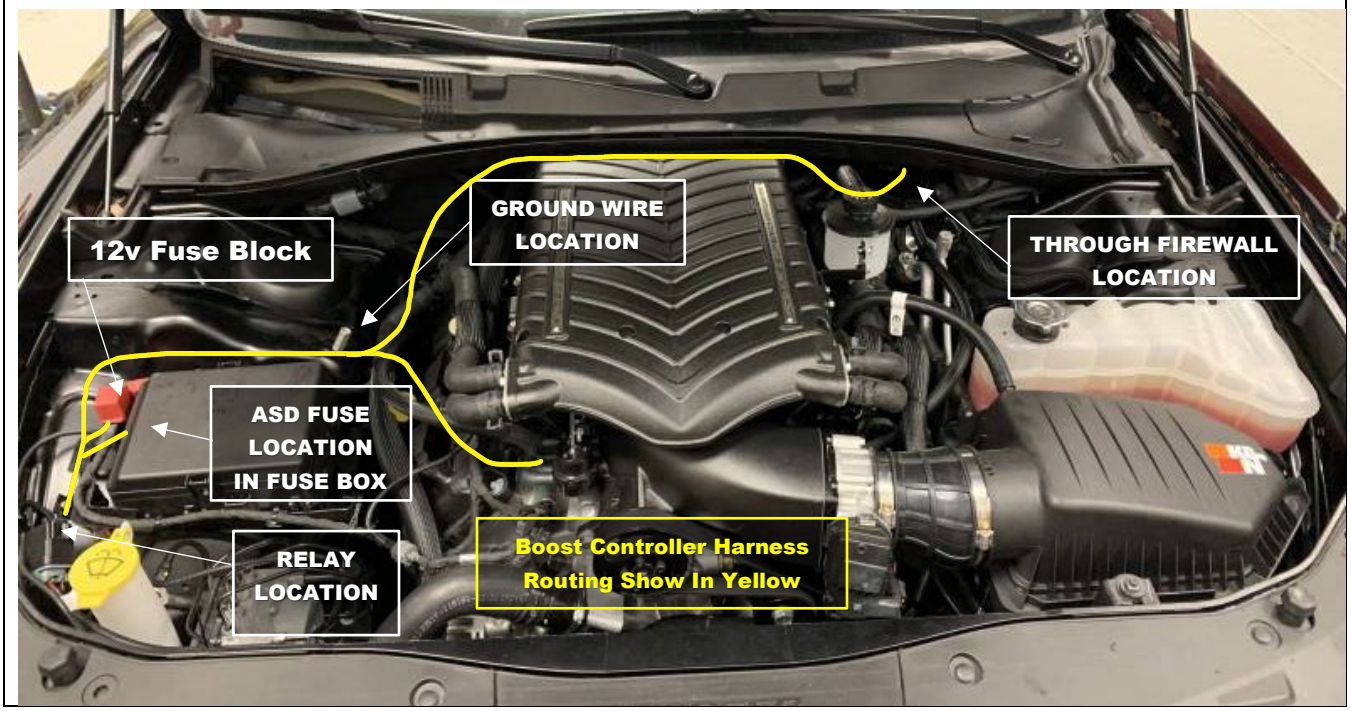


Modern Muscle Xtreme
340 Colonel Lee Road
Martinsville, VA 24112
276-666-1934

5. Once the controller is mounted into place on the supercharger per the instruction in step 4, it is now time to install the wiring harness.

6. The photo below provides a basic layout of how the wiring harness needs to be installed. Disconnect the negative terminal from the battery before starting installation.

   Mount the relay near the vehicle's fuse box, as shown. Use a 13mm socket to remove the nut securing the fuse box power wire. Connect the main power wire eyelet to the exposed stud on the fuse box and reinstall the nut securely.



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

MODERNMUSCLEXTREME.com

Whipple 3.0L Boost Controller

How to Enter Setup Mode

1. Initial Steps.

- Ensure engine is off with the ignition in the run position.
- Make sure the LED on the control box is solid green.
- Rotate the knob into setup mode position.
- Once Setup Mode is activated, the **Red LED** will turn on, indicating that the system is ready for setscrew adjustment. The bypass valve will move automatically to its **fully closed position** and remain there.

2. Setscrew Adjustment

- **Monitor the LED indicators** on the control module while adjusting the bypass valve linkage.
- **Slowly tighten the setscrew** on the bypass valve linkage until the **Green LED turns on**, indicating the correct calibration point. This will provide the needed clearance on the bypass valve.
- Once the Green LED is on, **remove the tools** from the linkage to prevent interference with the bypass valve.

3. Exiting Setup Mode

- Once the setup mode is complete and the LED is solid green, you can then turn the knob to your desired setting.

Troubleshooting

- **No LED Lights:**
    - Ensure the system is powered on and check all power connections.
- **Green LED Not Solid:** If the **Green LED** is blinking, the system is still in **calibration mode**. Wait for the self-calibration to complete before operating the system.

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