

MMX *SRV Controller Kit*

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Modern Muscle Xtreme SRV Controller Installation and Instruction Manual

Version 1.1 - Date: 2/13/23



Modern Muscle Xtreme
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Overview

Welcome! This manual provides comprehensive instructions for installing, operating, and maintaining your MMX SRV Controller, an advanced aftermarket solution designed to optimize your vehicle's performance by controlling the intake manifold short runner valve (SRV).

Product Overview

This device is suitable for vehicles without factory-installed SRVs. The MMX SRV Controller comes with a user-friendly wiring harness, making installation straightforward and efficient.

Key Features:

1. **Seamless Integration:** The MMX SRV Controller integrates seamlessly with your vehicle's AutoShutdown (ASD) circuit, ensuring power is only supplied when the ignition is in the ACC or RUN positions.
2. **Customizable Control:** The controller features a 12-position rotary switch that enables you to set the desired SRV switching RPM according to your preferences and vehicle specifications.
3. **Improved Efficiency:** By controlling the intake manifold short runner valve, the MMX SRV Controller allows for optimal airflow delivery, leading to enhanced engine performance.
4. **Durable Design:** The MMX SRV Controller is engineered with high-quality materials for reliable operation under various driving conditions.
5. **Easy Installation:** With a provided wiring harness, the installation process for the MMX SRV Controller is simplified and streamlined, making it an ideal choice for DIY enthusiasts or professional mechanics.

Tools You'll Need

Before we begin, ensure you have the following tools:

- Wire cutter/stripper
- Wire terminal crimper
- 10mm socket
- 13mm socket

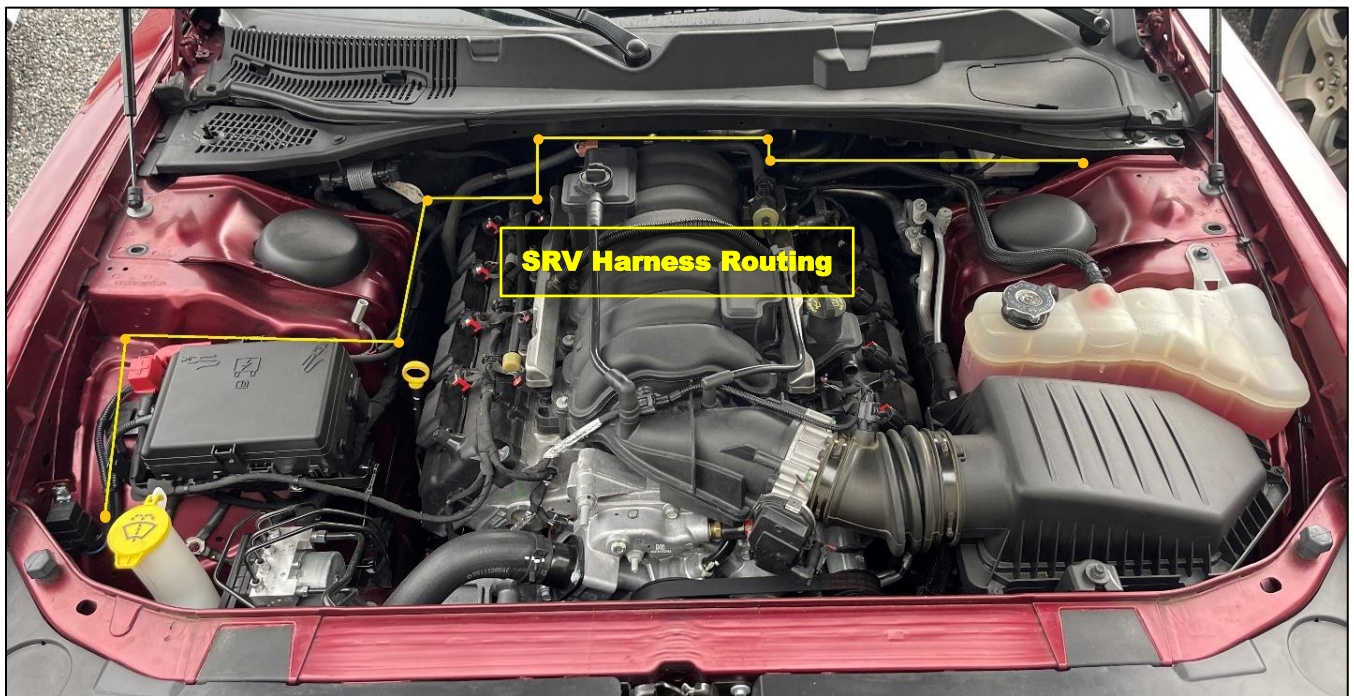
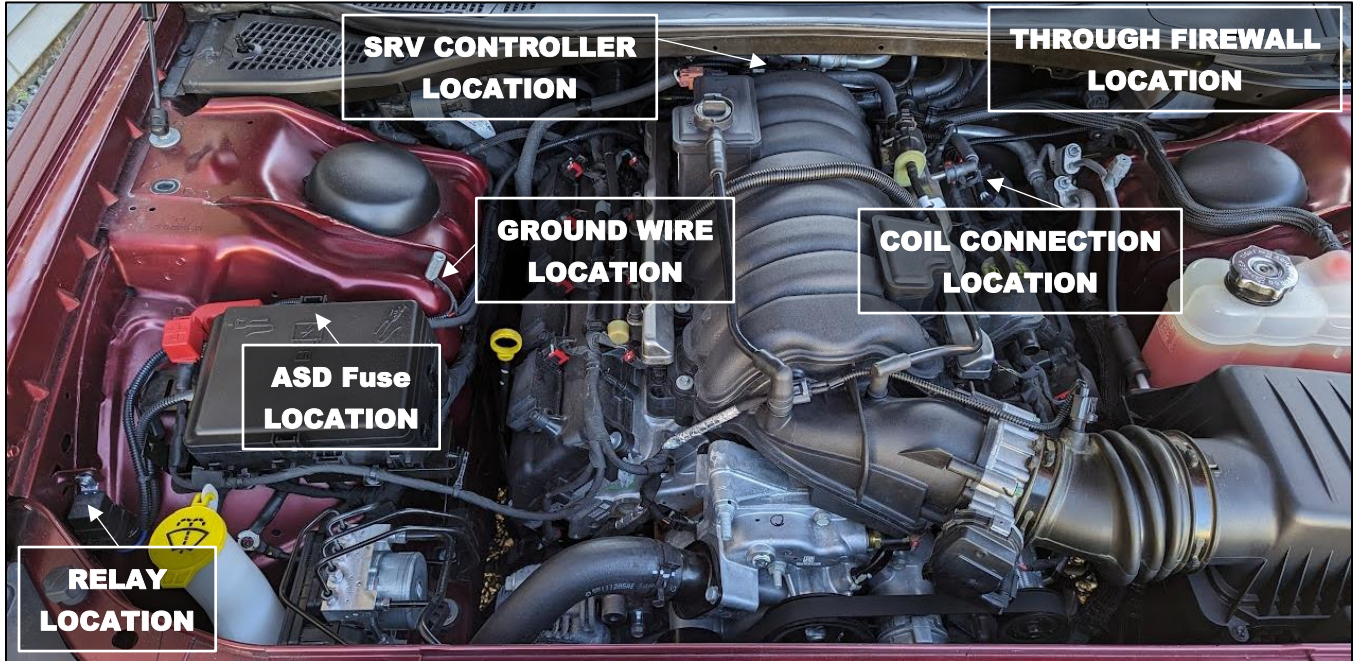
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Installation Instructions

Overview of Installed Wiring Harness:



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Step 1. Disconnect the battery:

Disconnect the negative terminal from the battery before starting installation.

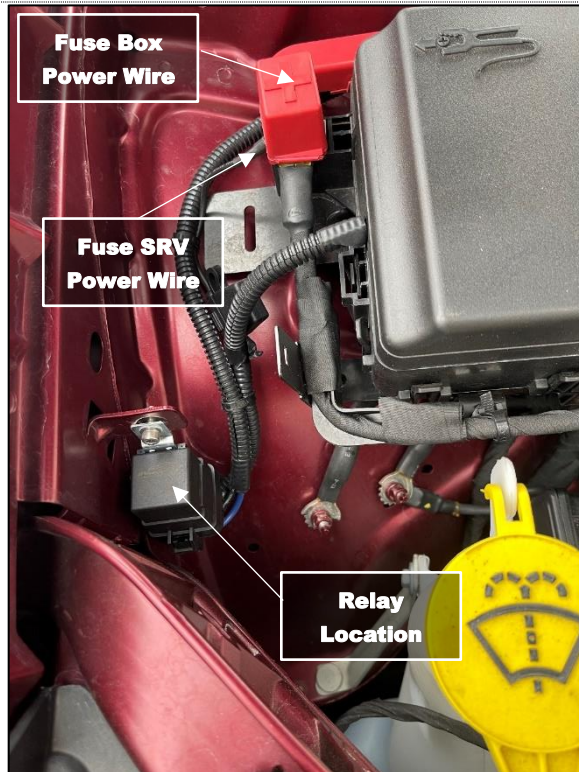
Step 2. Lay out the harness:

Lay out the supplied harness as shown in the photo to the right.



Step 3. Mount the relay:

Mount the relay near the vehicle's fuse box, as shown.



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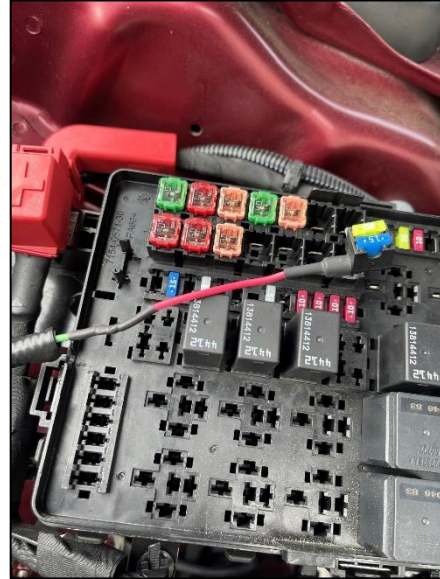
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Step 4. Connect main power wire:

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.

Step 5. Remove ASD fuse:

Remove the ASD fuse from the fuse box and connect the appropriate fuse tap in its location as shown. Multiple fuse taps are supplied to cover a large range of vehicle fits.

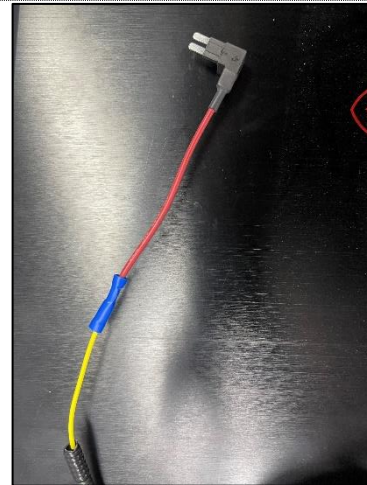


Step 6. Install fuse tap:

Install the fuse tap into the ASD fuse location, installing the original ASD fuse into the blank slot in the fuse tap.

Step 7. Connect relay trigger wire:

Strip a small portion of the relay trigger wire located on the SRV wiring harness near the attached relay (yellow wire). Crimp it onto the fuse tap wire as shown. This will allow the vehicle's ASD circuit to trigger the relay on the SRV harness. Some modification to the plastic fuse box lid may be needed to avoid pinching/cutting the added wire.



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Step 8. Connect ground wire:

Using a 13mm socket, remove the ground stud and connect the harness ground eyelet. Reinstall the ground stud securely.

Step 9. Attach SRV connector:

Attach the SRV connector to the SRV motor on the intake manifold. Ensure the connector is fully engaged and locked if applicable.

Step 10. Connect ignition coil:

Disconnect the ignition coil on the driver's side rear of the engine. Connect the coil jumper harness to the vehicle's ignition coil and existing wiring harness as shown. Ensure all connections are fully engaged and locked if applicable.



Step 11. Install module:

Install the module inside the vehicle to avoid moisture and excessive heat. The harness will need to be routed through the vehicle's firewall (usually through the existing grommet on the driver side below the brake booster). This may vary depending on the vehicle and installer preference.

<p>Step 12. Connect module: Connect the module to the harness and mount it in a desired location.</p>	
<p>Step 13. Secure wiring: Ensure all wiring is tied up properly and away from exhaust manifolds, ensuring wiring inside the vehicle is away from pedals and steering hardware.</p>	

Operating Instructions

RPM Setpoint Adjustment

The controller features a 12-position rotary switch for setting the SRV switching RPM according to your preferences and vehicle specifications. Turn the switch to set the desired RPM value. We recommend starting with 5000 RPM and adjusting as needed based on your vehicle's performance.

LED Indicator

The controller's LED indicator provides real-time status updates:

- **Cycling Green-Red:** Indicates the engine is not running or there's a connection issue with the coil.
- **Solid Green:** Indicates a valid RPM signal is being read by the module.
- **Solid Blue:** Confirms the SRV has been activated, with RPM above the setpoint.

Safety and Maintenance

Safety Precautions

Installation and operation should be performed by those with a sound understanding of automotive systems. Follow the provided manual instructions carefully to avoid damaging the controller.



Routine Maintenance

Regularly inspect connections between the controller and wiring harness for signs of corrosion or wear, replacing damaged parts immediately.

Troubleshooting

If you're experiencing operational issues, refer to the following troubleshooting guidance or contact our customer support for personalized help:

Module Appears Unpowered

- Check for proper battery power
- Ensure harness grounding is correct
- Verify fuse tap usage is appropriate
- Check Fuse: Inspect the fuse in the ASD circuit to ensure it's not blown or damaged.

LED Cycling Green-Red with Engine Running

Ensure the ignition coil connection is fully engaged without bent pins.

Disclaimer

The use of the MMX SRV Controller can influence your vehicle's performance and fuel economy. The manufacturer assumes no liability for damages resulting from improper installation or misuse. Ensure modifications comply with all applicable local vehicle regulations.

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