



# SIRHC LABS Cortex EBC High Amp Solenoid Driver Instruction Manual

[Home](#) » [SIRHC LABS](#) » SIRHC LABS Cortex EBC High Amp Solenoid Driver Instruction Manual 

## Contents

- [1 SIRHC LABS Cortex EBC High Amp Solenoid Driver Instruction](#)
- [2 HIGH AMP SOLENOID DRIVER INSTALLATION INSTRUCTIONS](#)
- [3 GENERAL WIRING DIAGRAM](#)
- [4 CORTEX EBC WATER/METHANOL CONTROL WIRING DIAGRAM](#)
- [5 Documents / Resources](#)
- [6 Related Posts](#)



## SIRHC LABS Cortex EBC High Amp Solenoid Driver Instruction



## HIGH AMP SOLENOID DRIVER INSTALLATION INSTRUCTIONS

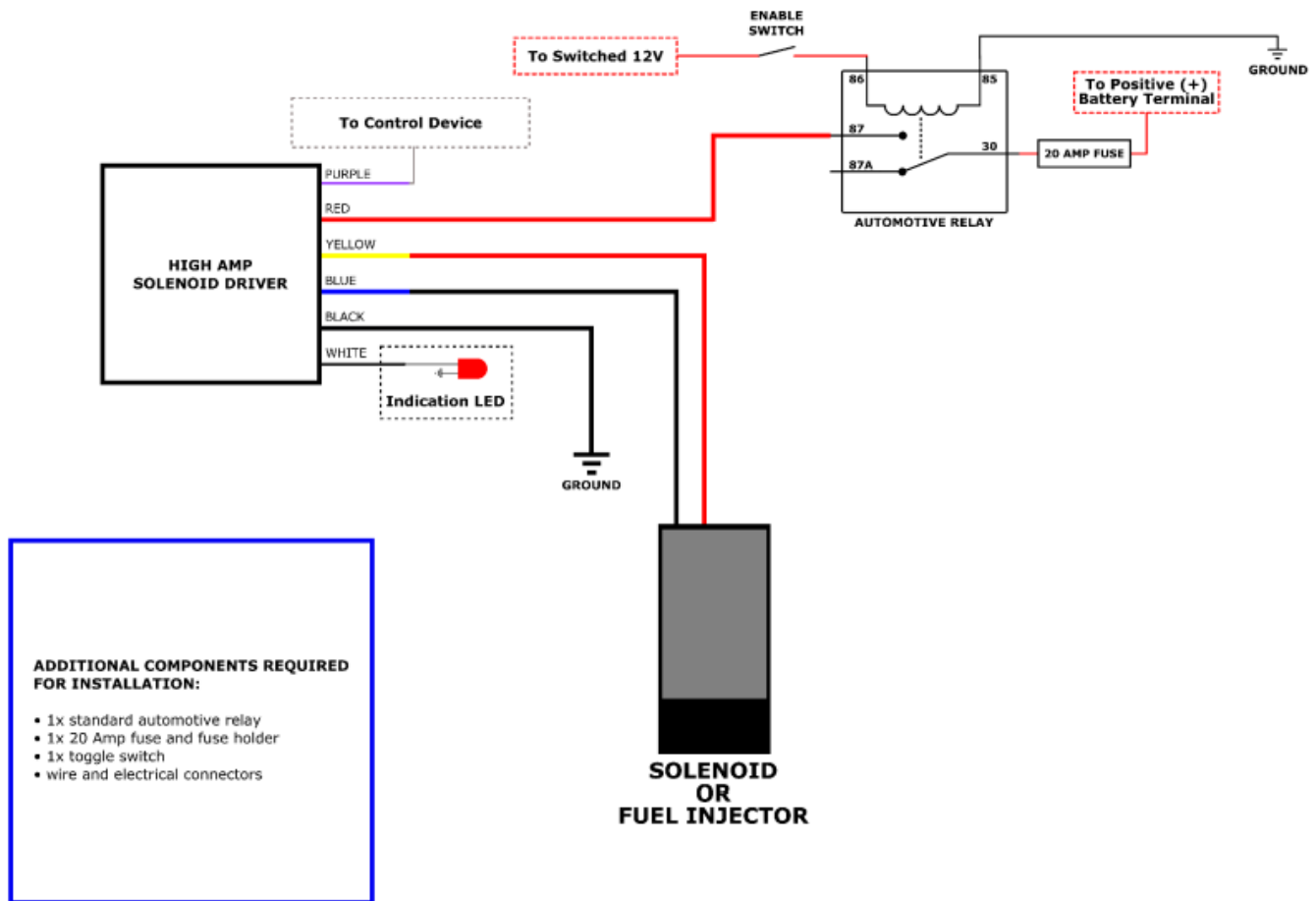
The High Amp Solenoid Driver has been specifically designed to provide optimal pulse width modulated (PWM) control of high-speed solenoids and fuel injectors. Each driver can provide progressive control for multiple high-speed solenoids or fuel injectors with a total current draw of 20 Amps or less. When using PWM to control a solenoid there is a limit to how quickly the solenoid is able to open and close. Below a certain duty cycle the solenoid will never open, and above a certain duty cycle the solenoid will never close. While the opening time is primarily determined by battery voltage, the closing time can vary greatly depending on the hardware being used to control the solenoid. The hardware inside of the High Amp Solenoid Driver has been designed to minimize the

time required for your solenoid to close, allowing you to achieve the maximum possible dynamic flow range from your injection system.

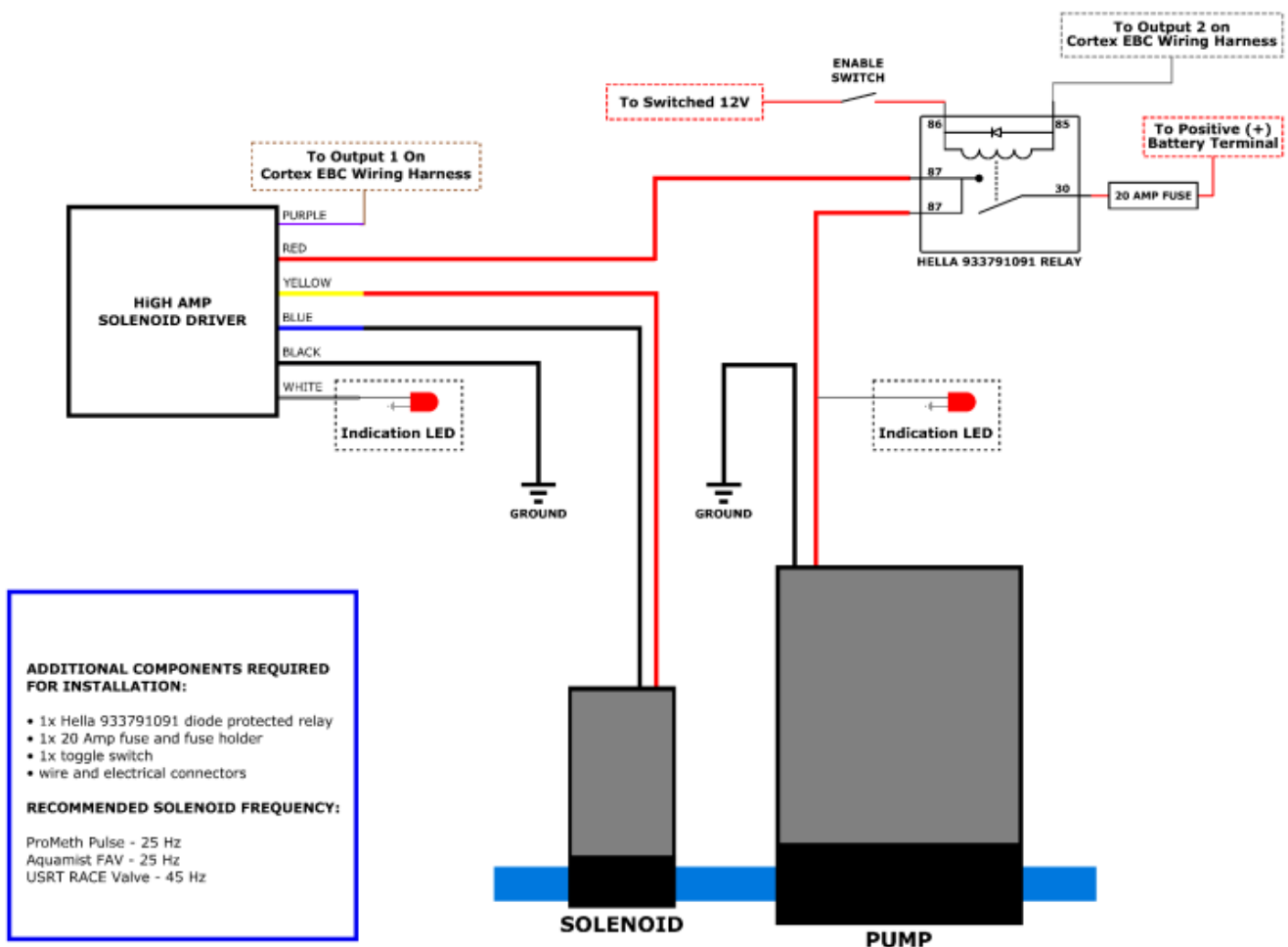
**NOTE:** This device is intended for intermittent operation and should not be used for applications that require the solenoid to be pulsed at all times when the vehicle is running.

<div><b>INCLUDED COMPONENTS</b><ul style="list-style-type: none"><li>· High Amp Solenoid Driver</li><li>· 12 V Diffused Indication LED (Red, Green, Blue)</li></ul></div> <div><b>CONTROL DEVICE COMPATIBILITY</b><ul style="list-style-type: none"><li>· Cortex EBC</li><li>· Any ECU or other control device with outputs that are 12 V tolerant and able to sink at least 30 milliamperes.</li></ul></div> <div><b>ACTIVATION METHOD</b><ul style="list-style-type: none"><li>· The High Amp Solenoid Driver is activated by pulling the control input (purple wire) to ground.</li></ul></div> <div><b>CONTROL INPUT PULL-UP RESISTANCE</b><ul style="list-style-type: none"><li>· 500 Ω pull-up to supply voltage</li></ul></div>	<div><b>MAXIMUM CURRENT</b><ul style="list-style-type: none"><li>· 20 Amps</li></ul></div> <div><b>MAXIMUM PWM FREQUENCY</b><ul style="list-style-type: none"><li>· 100 Hz</li></ul></div> <div><b>FLYBACK CLAMPING VOLTAGE</b><ul style="list-style-type: none"><li>· 50-60 V</li></ul></div> <div><b>SIZE</b><ul style="list-style-type: none"><li>· 66.5 mm x 50 mm x 20 mm (2.62 in x 1.97 in x 0.79 in)</li></ul></div>
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**GENERAL WIRING DIAGRAM**



## CORTEX EBC WATER/METHANOL CONTROL WIRING DIAGRAM



Documents / Resources

	<p><a href="#">SIRHC LABS Cortex EBC High Amp Solenoid Driver</a> [pdf] Instruction Manual</p> <p>Cortex EBC High Amp Solenoid Driver, Cortex EBC, High Amp Solenoid Driver, Solenoid Driver, Driver</p>
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