



## SOLID STATE RELAY KIT P/N 15620NOS Installation Instructions

### INTRODUCTION:

Thank you for your purchase of the NOS Solid Stage Relay Kit. Nitrous Oxide Systems cannot and will not be responsible for any alleged or actual engine or other damage, or other conditions resulting from misapplication of the relay kit described herein. However, it is our intent to provide the best possible products for our customer; products that perform properly and satisfy your expectations. Should you need information or parts assistance, please contact our Technical Service Department at 1-270-781-9741, Monday through Friday, 7 a.m. to 5 p.m. Central Time. Please have the part number of the product you purchased when you call.

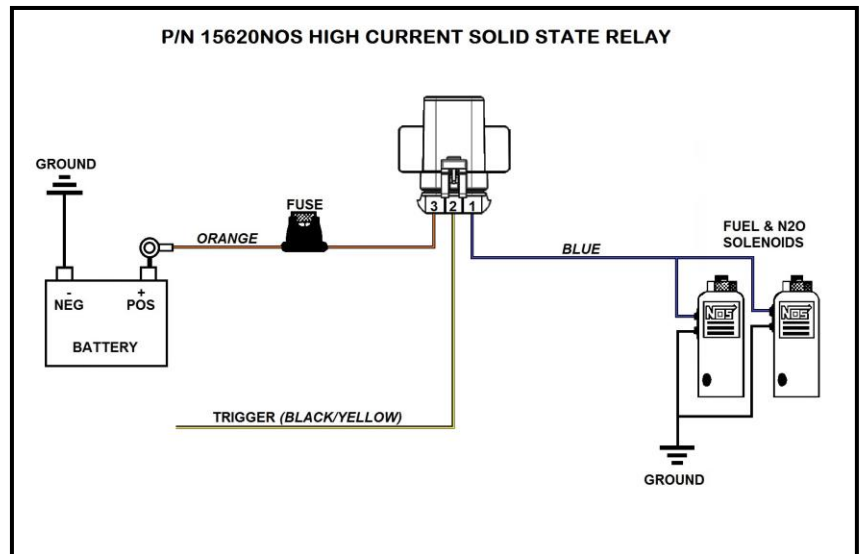
**WARNING!** THESE INSTRUCTIONS MUST BE READ AND FULLY UNDERSTOOD BEFORE BEGINNING INSTALLATION. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN POOR PERFORMANCE, VEHICLE DAMAGE, PERSONAL INJURY OR DEATH. IF THESE INSTRUCTIONS ARE NOT FULLY UNDERSTOOD, INSTALLATION SHOULD NOT BE ATTEMPTED. PLEASE CONSULT HOLLEY TECH SERVICE OR A QUALIFIED MECHANIC.

### INSTALLATION:

1. Disconnect the battery.
2. The relay may be mounted on the firewall or other suitable surface by drilling a hole in the mounting flange and using a sheet metal screw, double side tape or hook-&-loop tape.

**WARNING!** Before drilling or punching a hole in the firewall, make sure that you know what is on the other side to avoid puncturing equipment such as heater cores, air-conditioning system equipment, hoses, or wiring.

3. Plug the relay harness into the relay until it locks into place.
4. Connect the Black/Yellow trigger wire of the harness to the switch or switching device. This could be a timer or any suitable output of an EFI or Data Logger System.



**NOTE:** The relay activation requires a “switch-to-ground” input. This means the device that is intended to activate the relay will provide a signal to the Black/Yellow wire that switches from an open circuit to ground when activated.

5. Connect the Orange wire to a suitable voltage source.

**NOTE:** It is important to verify the voltage and current supply of the source (battery or power distribution block) have enough capacity to power all devices being switched ON by the relay.

6. Connect the remaining Blue wire to the device, such as nitrous and fuel solenoids, you wish to turn ON with the relay.
7. It is advisable to connect an in-line fuse holder, or circuit breaker between the relay and the power source of a suitable capacity to protect the relay and switched devices in the event of a short circuit or component failure.
8. Reconnect the battery.

**WARNING! CONNECTING BATTERY VOLTAGE TO THE BLUE WIRE WILL DAMAGE THE RELAY. VERIFY CONNECTIONS BEFORE APPLYING POWER.**



**SOLID STATE RELAY KIT  
P/N 15620NOS  
Specifications**

<b>Operating voltage</b>	<b>5 – 20 volts DC</b>
<b>Operating Temperature (ambient)</b>	<b>-40 – 85 degrees Celsius</b>
<b>Contact Configuration</b>	<b>Normally Open</b>
<b>Switch pull-in time</b>	<b>&lt;16 micro-seconds</b>
<b>Switching Frequency</b>	<b>0 – 1000 Hz</b>
<b>Pulse Width Modulation Compatible</b>	<b>Yes</b>
<b>Duty Cycle Percentage</b>	<b>0 – 100%</b>
<b>Rated Continuous, Switched load</b>	<b>40 amps (One on/off cycle per second maximum)</b>
<b>Rated Continuous, Pulsed (PWM) load</b>	<b>20 amps</b>

Copyright © 2017

199R11304

Date: 4-12-17