

# LS1 NXL Supplemental Instructions

## Read all Instructions before beginning!!!!

### Caution – EXTREME DANGER – Caution

Do not use or mix any other manufacturer's products with any Nitrous Express products.

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**THESE INSTRUCTIONS APPLY TO NITROUS EXPRESS PRODUCTS ONLY!**

**FOR SANCTIONED RACE USE ONLY - NOT FOR SALE OR USE IN CALIFORNIA**

This is your LS1 NXL supplement. In order for proper installation you will need to follow pages 1-8 of your NX installation instruction manual yet disregard the section on Nozzle Mounting and the section on Solenoid Mounting. Be sure and follow these instructions step by step to insure proper installation.

1. First lay all the pieces out and be sure everything you need is at hand. Take a close look at your LS1 intake and take notes of wiring and fitting locations.



2. Use a slip-lock disconnection tool to remove your fuel line. Just disconnect the line and pull off of your fuel rail



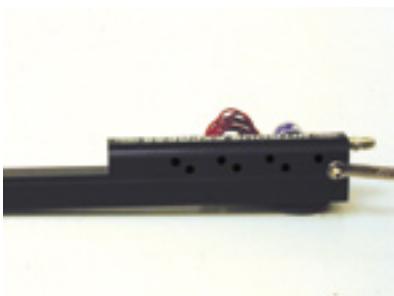
3. Now remove the factory fuel rail mounting bolts. Do not dispose of them you will be reusing them at the end of the install.



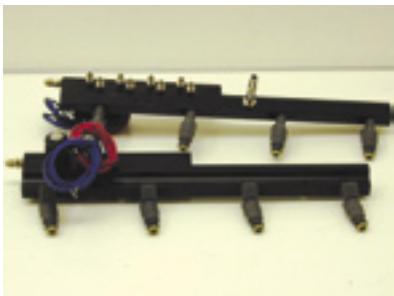
4. Now that you have removed the rail mounting bolts, lift the factory fuel rail off of the intake. Be careful as to not damage the fuel injector o-rings.



5. Flip injector rail over. This will allow you to remove injector lock clips. Once you have removed the clips take the injectors off of the fuel rail. Then inspect both o-rings on every injector. If the o-ring has the slightest tear or cut, replace before reinstalling.

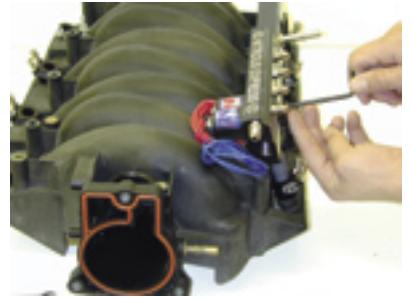
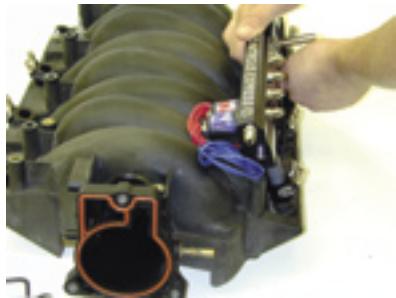


6. The rail fittings are installed in house. Then the rails are pressure checked to ensure a proper seal,. The fuel fitting must be installed next. It is located on the drivers side rail directly in the center. As with all pipe-thread fittings you must use NX thread sealer on all threads.

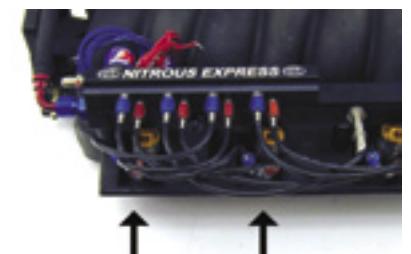


7. Now place the injectors in the fuel rail. You will need to lubricate the injector o-rings with some WD-40 or some other automotive lubricant to keep them from splitting upon reinstall. After that the NXL nozzles will need to be placed into the intake manifold. Once again be sure and lubricate their o-rings as well. Then, using the factory fuel rail mounting studs, install the NXL fuel rail mounting brackets. Make sure to leave them a little on the loose side to ease the installation.

\*Note: It may be easier to install the NXL nozzles on the injectors before installing them into the intake in a tight fitting application.



8. Once you have completed all of the before steps, it is now time to install the NXL rail. Just gently place the rail and injectors over the NXL nozzles and line them up. Press evenly and firmly until all injectors are fully seated in the nozzles. Then screw in the allen head screws through the fuel rail bracket and into the NXL fuel rail. You may finish tightening the rail mounting studs on the intake.

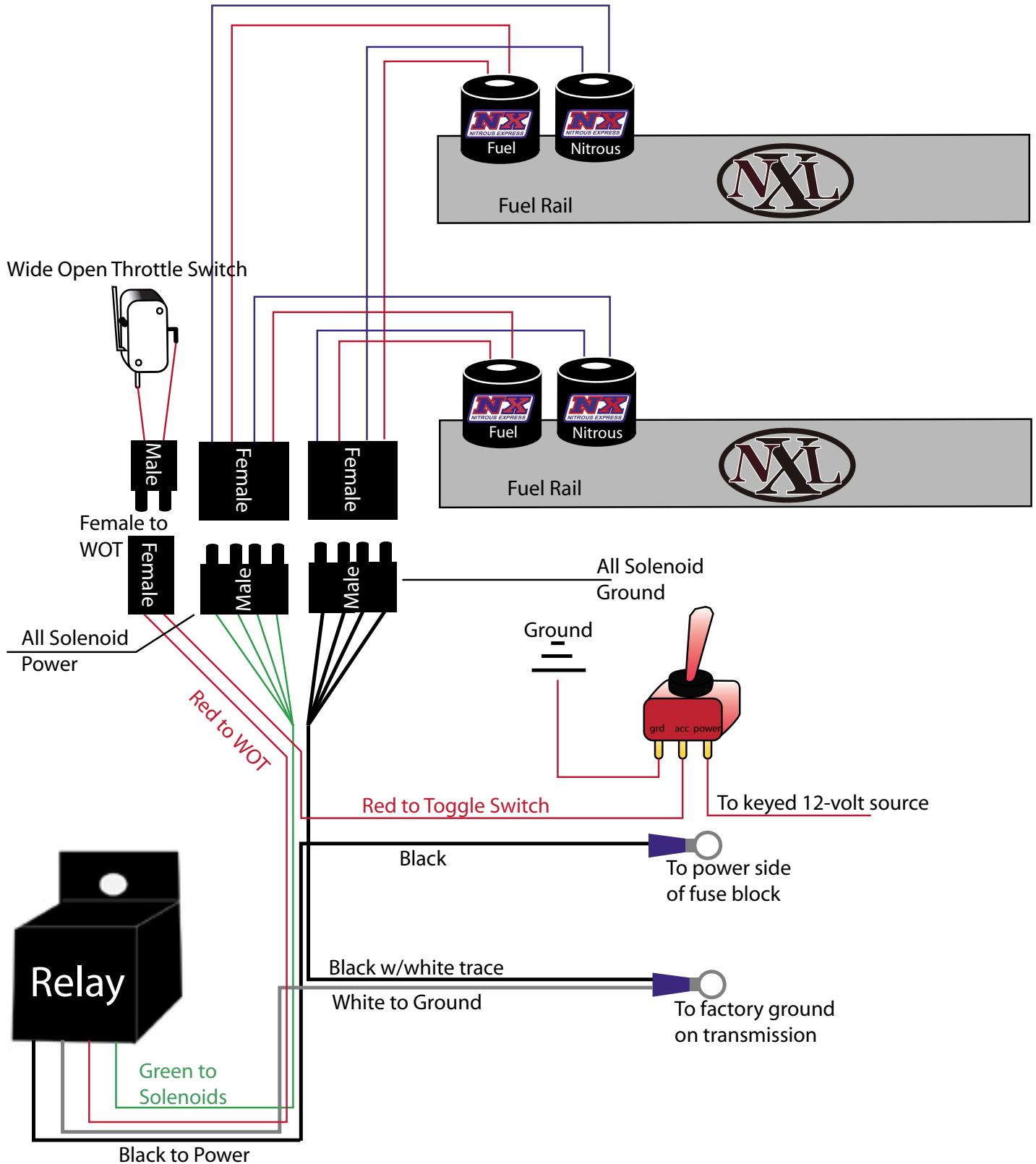


9. You may now install the nitrous and fuel lines from the rail to the nozzles. When installing start from front to back on the rail to the nozzles with the exception of the first one. If you will notice that in the third picture the front NXL nozzle on both sides of the intake, attaches to the third set of outlets. Then starting with the second one, they go from front to back, this is due to the tight radius of the hose.



10. Before wiring up the NXL system you will need to put the fuel crossover together. First get the two Aeroquip fittings supplied in the kit, lubricate the inside of the hose ends, then slip the fittings into the hose. Be sure to butt the hose up against the coupler of the fitting. Then tighten the -AN nuts onto the NXL fuel rails and your fuel setup is complete

The wiring diagram to the right shows how the NXL harness is wired up. Be sure and follow the diagram exactly to ensure trouble free operation of the nitrous system.



## UNDERSTANDING

# HAZARDS OF NITROUS OXIDE

## IN AUTOMOTIVE AND RACING APPLICATIONS



**USERS OF NITROUS OXIDE  
MUST UNDERSTAND THE  
HAZARDS. NITROUS OXIDE:**

- ! MAY CAUSE OR INTENSIFY FIRE; IT IS AN OXIDIZER.
- ! CONTAINS GAS UNDER PRESSURE, MAY EXPLODE IF EXPOSED TO AN OPEN FLAME.
- ! MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.
- ! MAY CAUSE DROWSINESS OR DIZZINESS.
- ! MAY CAUSE FROSTBITE.



**NEVER INHALE NITROUS  
OXIDE OR NITROUS OXIDE  
MIXTURES EXCEPT UNDER  
MEDICAL SUPERVISION.**

- ! RACING NITROUS OXIDE PRODUCTS CONTAIN SULFUR DIOXIDE.
- ! INHALATION OF RACING NITROUS OXIDE PRODUCTS MAY BE HARMFUL OR FATAL.



**NEVER APPLY AN OPEN  
FLAME TO A NITROUS  
OXIDE CYLINDER**

- ! WHEN FILLING FROM ONE CYLINDER TO ANOTHER.
- ! TO ENHANCE PERFORMANCE WHEN CYLINDERS ARE IN USE.



**FOLLOW REGULATORY  
REQUIREMENTS AND INDUSTRY  
STANDARDS WHEN USING  
NITROUS OXIDE CYLINDERS  
OR WHEN TRANSFERRING  
PRODUCT FROM ONE CYLINDER  
TO ANOTHER (TRANSFILLING)**

- ✓ ONLY COMPETENT, TRAINED PERSONNEL SHOULD TRANSFILL CYLINDERS.
- ! TRANSFILLING CYLINDERS CAN BE DANGEROUS.
- ✓ ONLY FILL NITROUS OXIDE CYLINDERS BY WEIGHT.
- ! DO NOT COOL DOWN RECEIVING CYLINDER.
- ✓ ONLY USE CYLINDERS THAT ARE DEDICATED FOR NITROUS OXIDE SERVICE. DO NOT CHANGE THE CYLINDER SERVICE TO OR FROM A DIFFERENT GAS.



**DO NOT MAKE ALTERATIONS  
TO CYLINDER OR CYLINDER  
COMPONENTS**

- ! DO NOT MODIFY PRESSURE RELIEF DEVICE (PRD).
- ! DO NOT REPLACE, CHANGE, OR MODIFY VALVE.
- ! DO NOT ALTER, REMOVE, OR COVER PRODUCT LABEL.



**FOLLOW SAFE  
PRACTICES FOR THE  
STORAGE AND USE OF  
OXIDIZERS**

- ✓ SECURE ALL CYLINDERS AND CONTAINERS WHEN BEING USED OR STORED.
- ✓ POST NO SMOKING SIGNS IN AREAS WHERE OXIDIZERS ARE STORED OR USED.
- ✓ SEPARATE OXIDIZERS FROM FLAMMABLES WHEN STORING.
- ✓ STORE AND USE IN WELL VENTILATED AREAS THAT ARE FREE OF COMBUSTIBLE MATERIALS.
- ✓ KEEP OIL AND GREASE AWAY FROM CYLINDER AND CYLINDER VALVE.