

NOS Cross Fire System Nozzle Mounting Instructions for NOS P/N 125NOS (to be used in conjunction with NOS Kit P/N 05000NOS)

A Holley Performance Brand

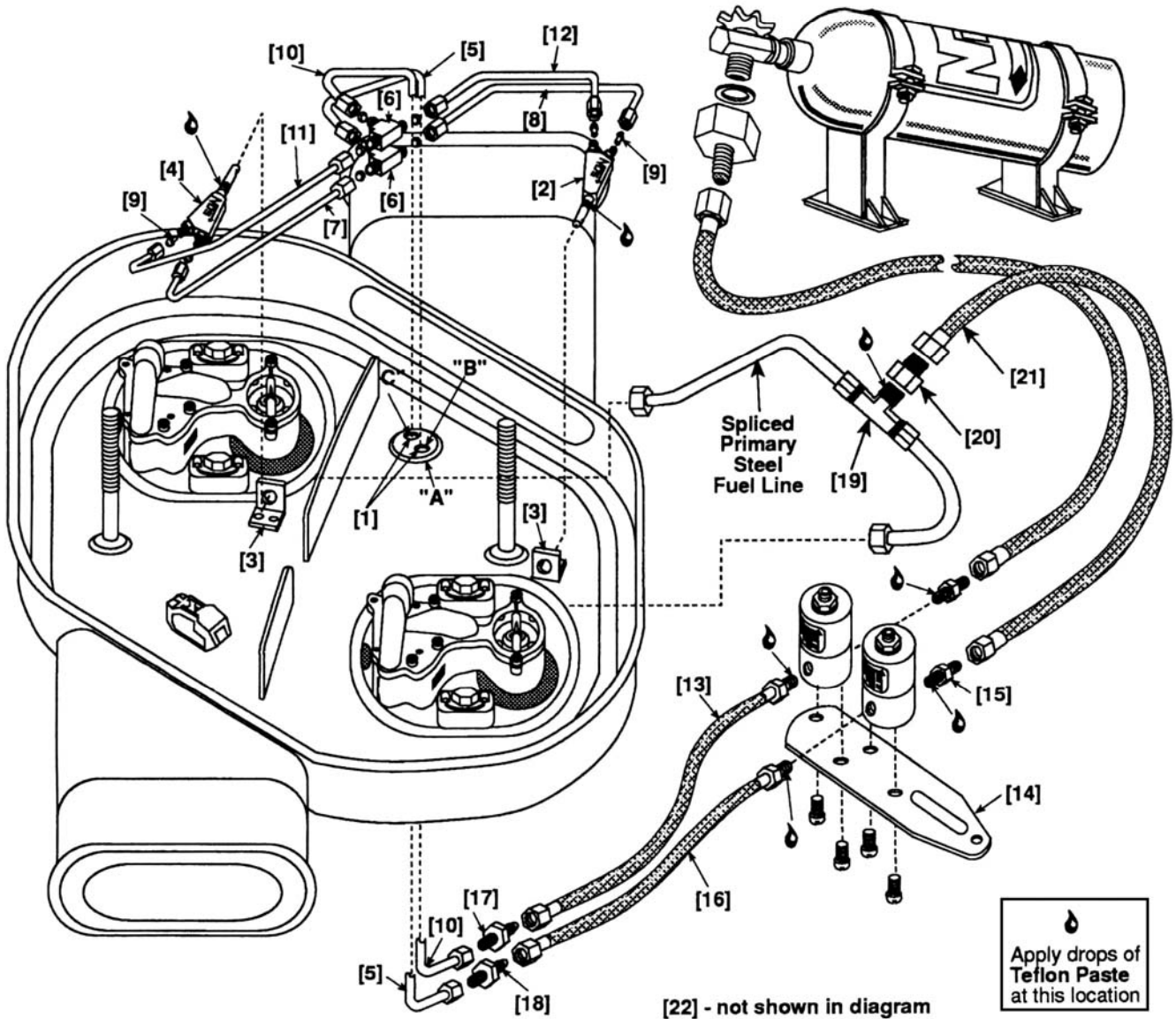
Instruction P/N A5131-SNOS

Table 1 Parts List

Item	Description	Qty	P/N	Item	Description	Qty	P/N
(1)	Rubber Grommet	2	16899-SNOS	(12)	N ₂ O Nozzle Ext. Tube (L)	1	16885L-SNOS
(2)	Fogger Nozzle (Driver Side)	1	13703NOS	(13)	2 ft. 1/8 NPT x 4AN Hose (Blue)	1	15230-1NOS
(3)	Fogger Nozzle Bracket	2	16510-SNOS	(14)	Solenoid Mounting Bracket*	1	16505NOS
(4)	Fogger Nozzle (Pass. Side)	1	13702NOS	(15)	4AN x 1/8 NPT Fitting (Red)	1	17961NOS
(5)	Fuel Solenoid Extension Tube	1	16888-SNOS	(16)	2 ft. 1/8 NPT x 4AN Hose (Red)	1	15230-2NOS
(6)	Solenoid Extension TEE	2	16438-SNOS	(17)	4AN x 3AN Adapter (Blue)	1	17050NOS
(7)	Fuel Nozzle Ext. Tube (R)	4	16886R-SNOS	(18)	4AN x 3AN Adapter (Red)	1	17051NOS
(8)	Fuel Nozzle Ext. Tube (L)	3	16886L-SNOS	(19)	3/8" x 1/8 NPT Compression TEE	1	16470NOS
(9)	Flare Jet Assortment	4	Assorted	(20)	4AN x 1/8 NPT Adapter Fitting	1	16781NOS
(10)	Nitrous Solenoid Ext. Tube	1	16887-SNOS	(21)	2 ft. 4AN Hose (Red)	1	15231NOS
(11)	N ₂ O Nozzle Ext. Tube (R)	1	16885R-SNOS	(22)	30 Amp Relay & Harness	1	15618NOS

*Screws included

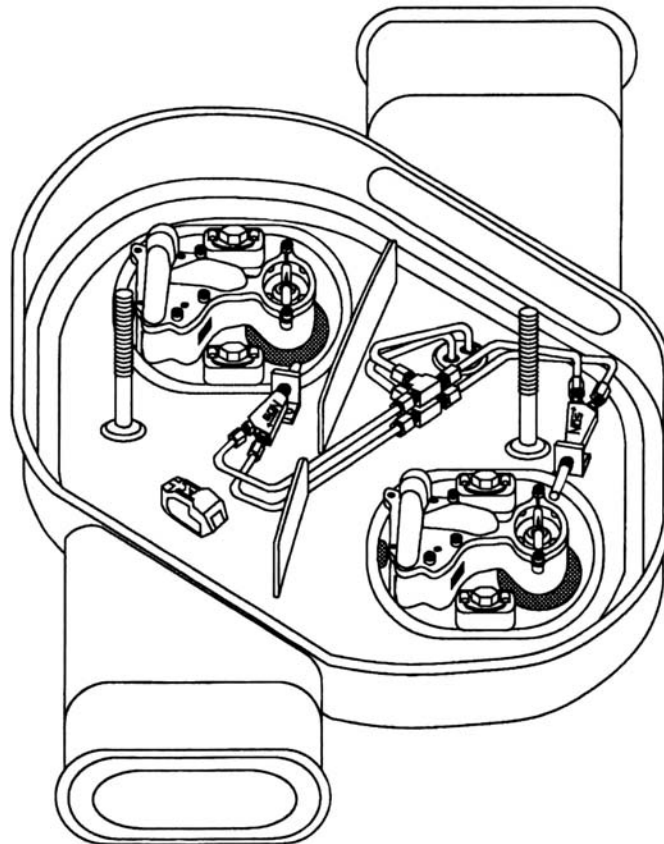
Figure 1 System Assembly Drawing



1.0 Nozzle Mounting

1. Remove the air cleaner assembly from the engine, separating the air cleaner lid from the air cleaner base assembly.
2. Locate the round flat spot on the floor of the air cleaner base, as depicted in Figure 1 (Location "A").
3. Drill and deburr two 5/16" through holes in location "A" at the approximate location shown.
4. Install one rubber grommet (1) in each 5/16" hole.
5. Remove a section approximately 1" wide from the air cleaner divider for the nozzle extension tubes to pass through, as shown in Figure 2.
6. Install the driver's side Fogger Nozzle (2) in one of the Fogger Nozzle mounting brackets (3). Refer to Figure 2 for help in identifying the driver's side and passenger's side Fogger Nozzles. Set the nozzle assembly aside.

Figure 2 System Assembly Drawing—Installed



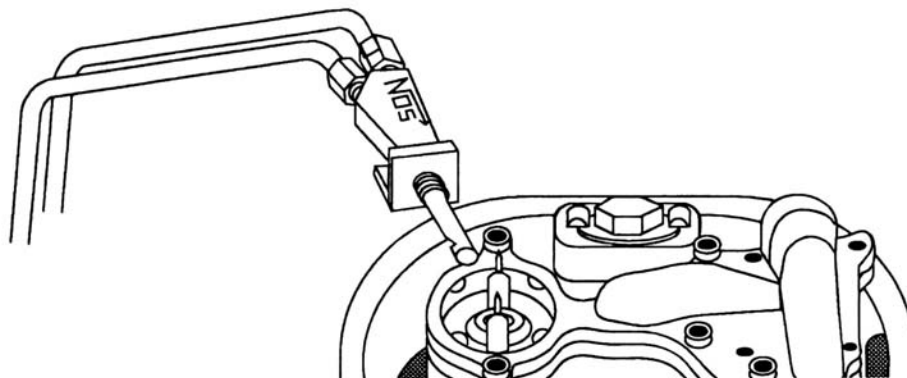
7. Install the passenger's side Fogger Nozzle (4) in the remaining Fogger Nozzle mounting bracket. Set the nozzle assembly aside.
8. Insert the Fuel Solenoid Extension Tube (5) in the rubber grommet located in the hole marked "C" in Figure 1.
9. Loosely attach one Solenoid Extension TEE (6) to the fuel solenoid extension tube.
10. Loosely attach the passenger's side (7) and driver's side (8) fuel nozzle extension tubes to the fuel solenoid extension/TEE assembly.
11. Install the proper fuel jet (9) in the Fogger Nozzle fuel port. Refer to Table 2 for jetting recommendations.
12. Loosely attach the driver's side Fogger Nozzle/nozzle bracket assembly to the driver's side fuel nozzle extension tube.
13. Loosely attach the passenger's side Fogger Nozzle/nozzle bracket assembly to the passenger's side fuel nozzle extension tube.
14. Insert the nitrous solenoid extension tube (10) in the rubber grommet located in the hole marked "B" in Figure 1.
15. Loosely attach one solenoid extension TEE (6) to the nitrous solenoid extension tube.
16. Loosely attach the passenger's side (11) and driver's side (12) nitrous nozzle extension tubes to the nitrous solenoid extension/TEE assembly.
17. Loosely attach the driver's side fuel nozzle tube extension to the driver's side Fogger Nozzle/nozzle bracket assembly.

- Loosely attach the driver's side nitrous nozzle tube extension to the driver's side Fogger Nozzle/nozzle bracket assembly.

NOTE: When selecting mounting locations for Fogger Nozzles in the following step, note that nozzles discharge at a 45° angle, relative to the nozzle body.

- Adjust the nozzle assemblies, so that discharge "notches" of nozzles are pointed down into the throttle body venturis as shown in Figure 3. Nozzles should be as close to the edge of the throttle bodies as practical. Mark the location for the Fogger nozzle bracket attachment screws.

Figure 3 Fogger Nozzle Orientation



NOTE: The Fogger Nozzle mounting brackets can be secured to the air cleaner base with 1/8" Pop rivets or #8 screws, lock washers, and nuts.

- Drill the attachment holes in the air cleaner base.
- Secure the Fogger Nozzle assemblies to the air cleaner base.
- Securely tighten all fittings.

2.0 Nitrous and Fuel Solenoid Assembly

- Place the nitrous solenoid base in a bench vise.
- Apply Teflon paste to the pipe threads of the blue 1/8 NPT x 4AN nitrous filter. Install the filter in the solenoid inlet port.
- Apply Teflon paste to the pipe threads of the blue 2-ft 4AN x 1/8 NPT hose (13). Install the pipe thread end of hose in the solenoid outlet port.
- Attach the solenoid mounting bracket (14) to the nitrous solenoid, as shown in Figure 1. Remove the assembly from the vise.
- Place the nitrous solenoid base in a bench vise.
- Apply Teflon paste to the pipe threads of the (Red) 4AN x 1/8 NPT Fitting (15). Install the fitting in the solenoid inlet port.
- Apply Teflon paste to the pipe threads of the (Red) 2-ft 4AN x 1/8 NPT hose (16). Install the pipe thread end of the hose in the solenoid outlet port.
- Attach the fuel solenoid assembly to the nitrous solenoid/bracket assembly, as shown in Figure 1. Remove the assembly from the vise.

3.0 Solenoid Extension Tube/Solenoid Extension Hose Connection

- Connect the (Blue) 4AN x 3AN adapter fitting (17) to the inlet port of the nitrous solenoid extension tube.
- Connect the (Red) 4AN x 3AN adapter fitting (18) to the inlet port of the fuel solenoid extension tube.
- Connect the open end of the (Blue) 2-ft. 4AN x 1/8 NPT hose to the blue 4AN x 3AN adapter fitting.
- Connect the open end of the (Red) 2-ft. 4AN x 1/8 NPT hose to the red 4AN x 3AN adapter fitting.

4.0 Solenoid Mounting

- Reinstall the air cleaner base onto the engine.
- Select the mounting location for solenoid(s) assembly based on the following:
 - Solenoid extension hoses do not interfere with the throttle linkage or any other engine components.
 - Main nitrous supply hose easily reaches the nitrous solenoid inlet port.
 - Location of fuel solenoid inlet port is convenient to the throttle body fuel feed line.
- Secure the solenoid assembly.

NOTE: The air cleaner lid is to be installed after you have completed Chapter 4.0 "Preparing for Operation", as outlined in the 05000NOS Owners Manual.

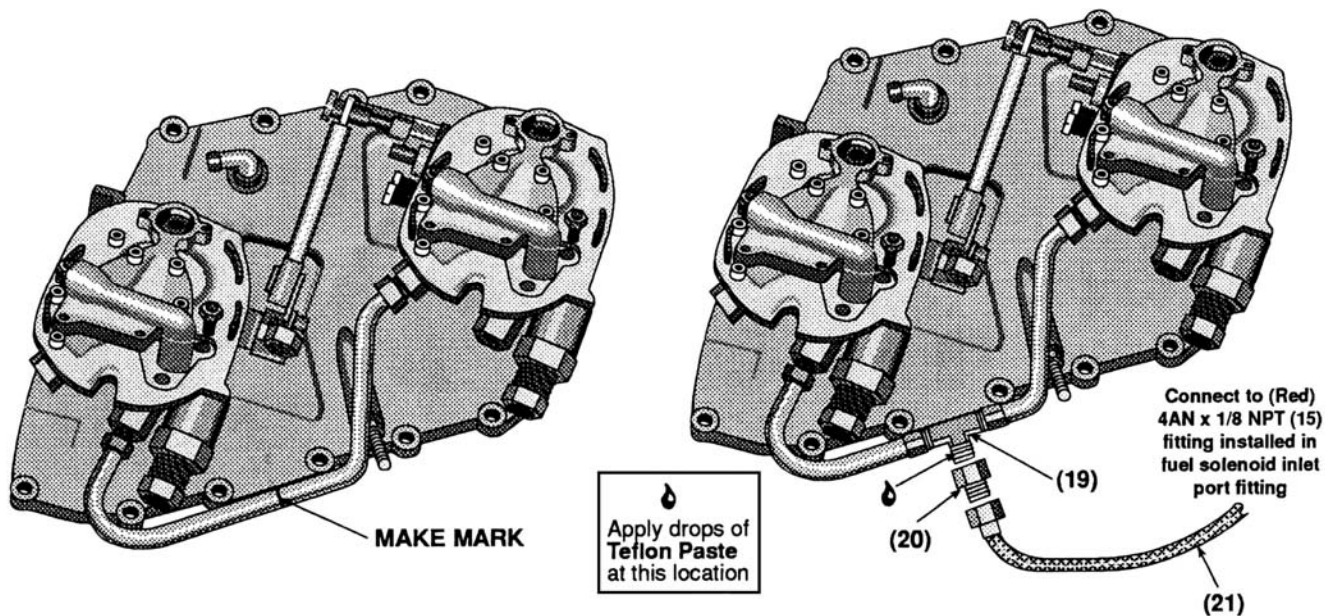
5.0 Fuel Solenoid Feed Line Connection

1. Choose and mark the location where the primary steel fuel line is to be tapped. Refer to Figure 4. The splice must be located so that the (Red) 2 ft. 4AN (21) hose will reach the (Red) 4AN x 1/8 NPT Fitting (15) installed in the inlet port of the fuel solenoid.
2. Remove the primary fuel line from the vehicle.
3. Cut and deburr the primary fuel line. Remove all debris from the fuel line pieces.

NOTE: When cutting the primary fuel line, be sure to shorten the line pieces just enough so that they can be spliced together using the 3/8" x 1/8 NPT Compression TEE fitting (19) and maintain the same overall line length.

4. Reinstall the primary fuel line using the 3/8" x 1/8 NPT Compression TEE (19) fitting to splice the line pieces together.
5. Apply Teflon paste to the open leg of the 3/8" x 1/8 NPT Compression TEE (19). Install 1/8 NPT x 4AN (20) onto the Compression TEE.
6. Connect the 1/8 NPT x 4AN adapter fitting (20) to the fuel solenoid inlet port using the 2 ft. 4AN Hose (21).

Figure 4 Suggested Fuel Line Splice Location



6.0 Suggested Baseline Tuning Combinations

The factory calibrated nitrous/fuel ratio in your kit is a conservative combination, based upon a nitrous bottle pressure of 900 psi. Use of this jetting combination with lower bottle pressure and/or higher fuel pressure may produce an excessively rich condition. This can result in a loss of power, excessive exhaust smoke (black) or misfiring (backfiring through the exhaust).

If you experience any of these conditions, or you desire to maximize the output from your system, refer to Chapter 4.0 in the Owner's Manual for NOS P/N 05000NOS.

NOTE: Aftermarket computer chips with aggressive ignition timing should be avoided. Custom chips tailored for use with nitrous oxide or stock chips should be used.

Table 2 Jetting Recommendations

HP	Jetting N ₂ O/ Fuel	Fuel Quality	Ignition Timing	Spark Plug Heat Range	Approximate N ₂ O Consumption Rate
125	42/37	92+ Octane Pump Gas	Standard	Standard	1.5 lbs. / 10 secs.

A5131-SNOS
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