

2003-2004 Ford Cobra 4V 4.6L Plate Kit

Kit Number 02120NOS

Plate Kit - P/N 13433NOS



OWNER'S MANUAL

P/N 199R10328

CONGRATULATIONS on purchasing your NOS Nitrous Oxide Injection System! Your system is composed of the highest quality components available. It should provide many miles of trouble-free performance when used correctly. If you have any questions regarding the performance of your system, **call NOS Technical Service at 1-866-GOHOLLEY**, **fax to 1-270-781-9772**, or **for online help, please refer to the Tech Service section of our website: www.holley.com.**

NOTICE: The installation of Nitrous Oxide Systems, Inc. products signifies that you have read this document and have agreed to the terms stated within.

It is the purchaser's responsibility to follow all installation instruction guidelines and safety procedures supplied with the product as it is received by the purchaser to determine the compatibility of the product with the vehicle or the device the purchaser intends to install the product on.

Nitrous Oxide Systems Inc. assumes no responsibility for damages occurring from accident, misuse, abuse, improper installation, improper operation, lack of reasonable care, or all previously stated reasons resulting from incompatibility with other manufacturers' products.

Nitrous Oxide Systems Inc. assumes no responsibility or liability for damages incurred by the use of products manufactured or sold by Nitrous Oxide Systems Inc. on vehicles used for competition or racing.

Nitrous Oxide Systems Inc. neither recommends nor condones the use of products manufactured or sold by Nitrous Oxide Systems Inc. on vehicles, which may be driven on public roads or highways, and assumes no responsibility for damages incurred by such use.

NOS nitrous oxide is legal for use in most states when used in accordance with state and local traffic laws. NOS does not recommend or condone the use of its products in illegal racing activities.

NOS has not pursued California Air Research Board (CARB) exemptions for its kits, hence, they are not legal for use on pollution-controlled vehicles in California. A correctly installed NOS nitrous system should not alter the emission control performance of your vehicle under standard EPA test cycle conditions.

HAZARDS DEFINED

This manual presents step-by-step instructions that describe the process of installing your NOS Nitrous Oxide Injection System. These procedures provide a framework for the installation and operation of this kit. Parts are referenced by name and number to avoid confusion. Within the instructions, you are advised of potential hazards, pitfalls, and problems to avoid. The following examples explain the various hazard levels:

WARNING! Failure to comply with instructions may result in injury or death.

CAUTION! Failure to comply with instructions may result in damage to equipment.

NOTE: This information is important, needs to be emphasized, and is set apart from the rest of the text.

HINT: These special instructions provide a handy work tip.

NITROUS OXIDE INJECTION SYSTEM SAFETY TIPS

WARNINGS

IT IS NOT LEGAL TO ENGAGE NITROUS OXIDE INJECTION SYSTEMS ON PUBLIC ROADS OR HIGHWAYS. NITROUS OXIDE INJECTION SYSTEMS ARE <u>ONLY</u> TO BE ENGAGED DURING SANCTIONED COMPETITION OR RACING EVENTS.

This NOS Kit is not intended for use on hatchback type vehicles without the use of NOS part number 16160NOS (External Aluminum Blow-Down Tube).

Cobra ECUs are programmed with a 155mph fuel cutoff. If the vehicle reaches this speed with the nitrous oxide injection system engaged, severe engine damage may result.

Do not attempt to start the engine if the nitrous has been injected while the engine was not running. Disable the ignition system (consult owner's manual) and turn the engine over with the throttle wide open for several revolutions before attempting to start. Failure to do so can result in extreme engine damage.

Never permit oil, grease, or any other readily combustible substances to come in contact with cylinders, valves, solenoids, hoses, and fittings. Oil and certain gases (such as oxygen and nitrous oxide) may combine to produce a highly flammable condition.

Never interchange nitrous and fuel solenoids. Failure to follow these simple instructions can result in extreme engine damage and/or personal injury.

Never drop or violently strike the bottle. Doing so may result in an explosive bottle failure.

Never change pressure settings of safety relief valve on the nitrous bottle valve. Increasing the safety relief valve pressure settings may create an explosive bottle hazard.

Please note that the NOS bottle label has changed to a two-part assembly. The first label is already located on the bottle. Upon filling your bottle with nitrous oxide, apply the (second) material information label in the area indicated in the picture to the right.

NOTE: The material information decal is located in the same plastic bag as the bottle.

WARNING! Once the nitrous bottle has been filled, it must be shipped according to the applicable transportation and shipping regulations!

Do not deface or remove any markings, which are used for content identification.



Nitrous bottle valves should always be closed when the system is not being used.

Notify the supplier of any condition that may have permitted any foreign matter to enter the valve or bottle.

Keep the valves closed on all empty bottles to prevent accidental contamination.

After storage, open the nitrous bottle valve for an instant to clear the opening of any possible dust or dirt.

It is important that all threads on the valves and solenoids are properly mated. Never force connections that do not fit properly.

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WHAT IS NITROUS OXIDE?

NITROUS OXIDE...

- ...Is a cryogenic gas composed of nitrogen and oxygen molecules
- ...Is 36% oxygen by weight
- ...Is non-flammable by itself
- ... Is stored as a compressed liquid
- ...Exists in two grades—U.S.P. and Nitrous Plus:
- U.S.P. is medical grade nitrous oxide; its common use is dental and veterinary anesthesia. It is also commonly used as a propellant in canned whipped cream. U.S.P. is not available to the public.
- Nitrous Plus differs from U.S.P. in that it contains trace amounts of sulphur dioxide added to prevent substance abuse. Nitrous Plus is intended for automotive applications and is available for sale to the public.

In automotive applications, Nitrous Plus and fuel are injected into the engine's intake manifold, which produces the following results:

- □ Lowers engine intake air temperature, producing a dense inlet charge.
- Increases the oxygen content of the inlet charge (air is only 22 percent oxygen by weight).
- ☐ Increases the rate at which combustion occurs in the engine's cylinders.

DO'S AND DON'TS OF NITROUS OXIDE

Do's

- Read all instructions before attempting to install your NOS nitrous system.
- Make sure your fuel delivery system is adequate for the nitrous jetting you have chosen. Inadequate fuel pressure or flow will result in engine damage.
- ☐ Use 14 gauge (minimum) wire when installing electrical system components.
- ☐ Use high-quality connections at all electrical joints.
- Use Teflon-based paste on pipe-style fittings.
- Make sure your engine and related components (ignition, carburetor, and driveline) are in proper working condition.
- If nitrous is accidentally injected into the engine when it is not running, remove the engine ignition wires, open the throttle, and crank the engine 10 to 15 seconds before starting. Failure to do so can result in an explosive engine failure.
- Use your NOS nitrous system only at wide-open throttle and at engine speeds above 3000 RPM.
- Install a proper engine to chassis ground. Failure to do so may result in an explosive failure of the main nitrous supply line.
- ☐ Use a high-quality fuel, as suggested in Chapter 3, Baseline Tuning Suggestions.

Don'ts

- Engage your nitrous system with the engine off. Severe engine damage can occur.
- Modify NOS nitrous systems (if you need a non-stock item, call NOS Technical Service for assistance)
- Overtighten AN type fittings.
- Use Teflon Tape on any pipe threads. Pieces of Teflon tape can break loose and become lodged in the nitrous or fuel solenoids or solenoid filters. Debris lodged in a nitrous or fuel solenoid can cause catastrophic engine failure.



- Use sealant of any kind on AN type fittings.
- Allow nitrous pressure to exceed 1100 psi. Excessive pressure can cause swelling or in extreme cases failure of the nitrous solenoid plunger. Solenoid plungers are designed so that pressure-induced failures will prevent the valve from operating. No leakage should occur with this type of failure.
- Inhale nitrous oxide. Death due to suffocation can occur.
- ☐ Allow nitrous oxide to come in contact with skin. Severe frostbite can occur.
- ☐ Use octane boosters that contain methanol. Fuel solenoid failure may occur, producing severe engine damage.

Chapter 1 Introduction to Your NOS Nitrous Oxide Kit

1.1 General Information

Kit Number 02120NOS is intended for use on 2003-2004 Ford Cobras with supercharged 4V 4.6L V-8 engines. Power output is increased by 100-125HP over stock.

1.2 System Requirements

When used correctly, Kit Number 02120NOS is designed to work with stock 4V Ford internal engine and driveline components. The two jet combinations in this kit generate 100HP or 125 HP gains. Colder plugs (non-platinum, gapped at .035) are recommended. Check **Table 2** in the back of the manual for recommended spark plug heat range selection. If the jetting is increased over 125 HP, it is advised to upgrade the fuel delivery system to ensure safe operation.

1.3 Kit Components

Before beginning the installation of your NOS kit, compare the components in your kit with those listed in Table 1. If any components are missing, please contact NOS Technical Support at 1-866-GOHOLLEY.

Table 1 Kit Number 02120NOS Parts List

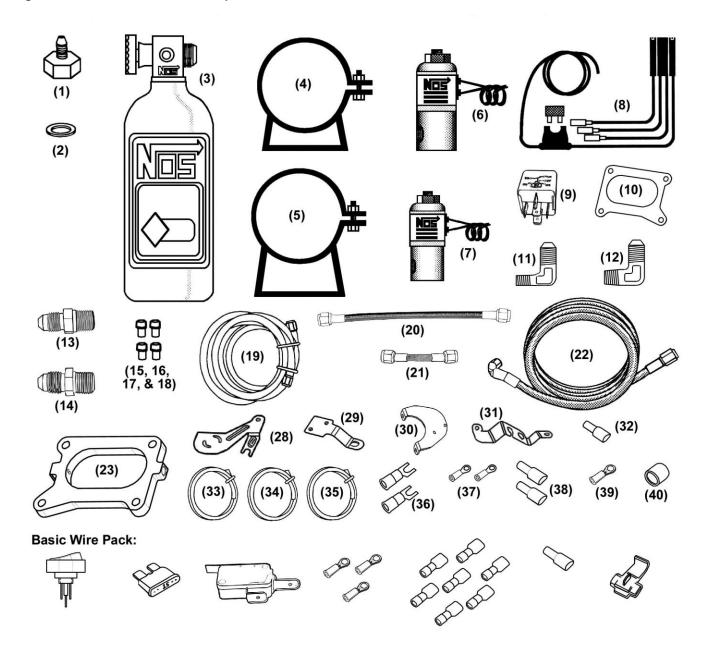
(1) Bottle Nut Adapter 1 16220NOS (2) Bottle Valve Washer 1 1 16210NOS (3) #10 Nitrous Bottle** 1 14745NOS (4) Bottle Mounting Bracket, Long** 1 14726-SNOS (5) Bottle Mounting Bracket, Long** 1 14127-SNOS (6) NyO Super Pro Shot Solenoid 1 16045NOS (7) Cheater Fuel Solenoid 1 16045NOS (8) Relay Wiring Harness 1 15604-SNOS (9) 30 Amp Relay 1 15618NOS (10) Intake Adapter Gaskets 2 8822269 (11) NyO Filter 1 15560NOS (11) NyO Filter 1 15560NOS (12) Fuel Filter 1 15560NOS (13) 3AN – 1/8 NPT Red Adapter 1 17951NOS (13) 3AN – 1/8 NPT Red Adapter 1 17951NOS (14) 4AN – 1/8 NPT Red Adapter 1 17960NOS (15) 0.026* Flare Jet 1 13760-28NOS (17) 0.026* Flare Jet 1 13760-28NOS (17) 0.040* Flare Jet 1 13760-28NOS (18) 0.044* Flare Jet 1 13760-40NOS (18) 0.044* Flare Jet 1 13760-40NOS (19) 4AN – 8.5* Fuel Hose (Red) 1 1501NOS (20) 4AN – 8.5* Fuel Hose (Red) 1 1501NOS (21) 4AN 69 3AN 2** Fuel Hose (Red) 1 1501NOS (22) 4AN 69 3AN 2** Fuel Hose (Red) 1 1501NOS (23) 2003-2004 Cobra NOS Plate Assembly*** 1 407814A (24) Nut, M8 x 125 Hex* 1 398452 (25) Nut, M6 x 1.0 Hex* 1 398452 (26) Stud, M8-125 x 50mm* 4 37851 (27) Strack, I will M8-125 x 50mm* 4 37851 (28) Bracket, NOS Solenoid - Ford Cobra 1 498208 (33) Facket, Fuel Solenoid - Ford Cobra 1 498208 (33) Facket, NOS Solenoid - Ford Cobra 1 498208 (33) Facket, Fuel Solenoid - Ford Cobra 1 498208 (34) Facket, Fuel Solenoid - Ford Cobra 1 498208 (35) Facket, Fuel Solenoid - Ford Cobra 1 498208 (36) Facket, Fuel Solenoid - Ford Cobra 1 498208 (36) Facket, Fuel Solenoid - Ford Cobra 1 498208 (36) Facket, Fuel Solenoid - Ford Cobra 1 498208 (36) Facket, Fuel Solenoid - Ford Cobra 1 498208 (36) Facket, Fuel Solenoid - Ford Cobra 1 498208 (36) Facket, Fuel Solenoid - Ford Cobra 1 498208 (36) Facket, Fuel Solenoid - Ford Cobra 1 498208 (36) Facket, Fuel Solenoid - Ford Cobra 1 498208 (37) Facket, Fuel Solenoid - Ford Cobra 1 498208 (37) Facket, Fuel Solenoid - Ford Cobra 1 498208 (37) Facket, Fuel Solenoid - Ford Cobra 1 498208 (37) Facket, Fuel Solenoid - Ford Cobra 1 498208 (37) Facket, Fue	Item	Description	Quantity	NOS P/N
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(9) 30 Amp Relay 1 15618NOS (10) Intake Adapter Gaskets 2 8R2269 (11) N _D O Fitter 1 15560NOS (12) Fuel Filter 1 15560NOS (13) 3AN – 1/8 NPT Red Adapter 1 17951NOS (14) 4AN – 1/8 NPT Blue Adapter 1 17950NOS (15) 0.026° Flare Jet 1 17960NOS (15) 0.026° Flare Jet 1 17960-28NOS (16) 0.028° Flare Jet 1 17960-28NOS (17) 0.040° Flare Jet 1 17960-28NOS (17) 0.040° Flare Jet 1 17960-28NOS (18) 0.044° Flare Jet 1 17960-28NOS (18) 0.044° Flare Jet 1 17960-28NOS (18) 0.044° Flare Jet 1 17960-28NOS (19) 4AN 14 ft. Blue Hose 1 15295NOS (20) 4AN – 8.5° Fuel Hose (Red) 1 15201NOS (21) 3AN – 3° Fuel Hose (Red) 1 15201NOS (22) 4AN to 90° 3AN 27° Nitrous Hose (Blue) 1 15034NOS (23) 2003-2004 Cobra NOS Plate Assembly*** 1 40R814A (24) Nut, M8 x 125 Hex* 1 39R452 (25) Nut, M6 x 1.0 Hex* 1 39R462 (26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NoS Solenoid - Ford Cobra 1 49R2080 Bracket, Fuel Solenoid - Ford Cobra 1 49R2080 (30) Bracket, Fuel Solenoid - Ford Cobra 1 49R2081 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2081 (32) Male Spade Connector 1 15886-SNOS (34) 16 Gauge Red Wire 1 15751-VSNOS (35) 41 Gauge Blue Wire 1 15751-VSNOS (36) #6 Open Spade Terminal 1.87 2 15886-SNOS (37) #10 Ring Terminal 1.22-18 2 15881-SNOS (38) Ring Terminal 1.22-18 2 15881-SNOS (39) Ring Terminal 1.22-18 2 15881-SNOS (41) Basic Wire Pack* 1 15602NOS (42) Basic Wire Pack* 1 15602NOS (43) Ring Terminal 1.87 2 15886-SNOS (44) Basic Wire Pack* 1 15602NOS (44) Rolen Basic Wire Pack* 1 15602NOS (44) Basic Wire Pack* 1 15602NOS (45) Rolen Basic Wire Pack* 1 15640NOS (44) Basic Wi	(7)	Cheater Fuel Solenoid		16050NOS
(10)			1	
(11) N ₂ C Filter 1 15560NOS (12) Fuel Filter 1 15571NOS (13) 3AN – 1/8 NPT Red Adapter 1 17951NOS (14) 4AN – 1/8 NPT Blue Adapter 1 17950NOS (15) 0.026° Flare Jet 1 13760-26NOS (15) 0.026° Flare Jet 1 13760-26NOS (16) 0.026° Flare Jet 1 13760-26NOS (17) 0.040° Flare Jet 1 13760-26NOS (18) 0.044° Flare Jet 1 13760-46NOS (19) 4AN 14 ft. Blue Hose 1 15295NOS (20) 4AN – 8.5° Fuel Hose (Red) 1 15201NOS (21) 3AN – 3° Fuel Hose (Red) 1 15201NOS (22) 4AN to 90° 3AN 27" Nitrous Hose (Blue) 1 15014NOS (23) 2003-2004 Cobra NOS Plate Assembly*** 1 40R814A (24) Nut, M8 x 125 Hex* 1 39R452 (25) Nut, M6 x 1.0 Hex* 1 39R462 (26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NOS Solenoid - Ford Cobra 1 49R2079 (29) Bracket, Fuel Solenoid - Ford Cobra 1 49R2080 (30) Bracket, Fuel Solenoid - Ford Cobra 1 49R2081 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2081 (32) Male Spade Connector 1 15751-VSNOS (33) Ring Green Wire 1 15751-VSNOS (34) 16 Gauge Red Wire 1 15751-VSNOS (36) #6 Open Spade Terminal 16-14 2 15880-SNOS (39) Ring Terminal 10-12 1 204R241-9 (40) 4AN Red Cap Plug 1 1 15761-VSNOS (39) Ring Terminal 10-12 1 204R241-9 (40) AAN Red Cap Plug 1 1 15640NOS (44) Basic Wire Pack* 1 15886B-SNOS (44) Basic Macked Pack* 1 15886B-SNOS (44) Basic Macked Pack*	(9)		1	15618NOS
(12) Fuel Filter 1 15571NOS (13) 3AN - 1/8 NPT Red Adapter 1 17951NOS (14) 4AN - 1/8 NPT Blue Adapter 1 17960NOS (15) 0.026" Flare Jet 1 13760-26NOS (16) 0.028" Flare Jet 1 13760-26NOS (16) 0.028" Flare Jet 1 13760-28NOS (17) 0.040" Flare Jet 1 13760-40NOS (18) 0.044" Flare Jet 1 13760-44NOS (18) 0.044" Flare Jet 1 13760-44NOS (19) 4AN 14 ft. Blue Hose 1 15295NOS (20) 4AN - 8.5" Fuel Hose (Red) 1 15295NOS (21) 3AN - 3" Fuel Hose (Red) 1 15201NOS (22) 4AN to 90" 3AN 27" Nitrous Hose (Blue) 1 15010NOS (23) 2003-2004 Cobra NOS Plate Assembly*** 1 40R814A (24) Nut, M8 x 125 Hex* 1 39R452 (25) Nut, M6 x 1.0 Hex* 1 39R462 (26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NOS Solenoid - Ford Cobra 1 49R2080 (30) Bracket, Fuel Solenoid - Ford Cobra 1 49R2080 (30) Bracket, Switch WOT - Ford Cobra 1 49R2081 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2082 (32) Male Spade Connector 1 15886-SNOS (33) 14 Gauge Blue Wire 1 15751-VSNOS (34) 16 Gauge Red Wire 1 157578-VSNOS (36) #6 Open Spade Terminal 16-14 2 15880-SNOS (37) #10 Ring Terminal 22-18 2 15881-SNOS (39) Ring Terminal 22-18 2 15886-SNOS (39) Ring Terminal 10-12 1 204R241-9 (40) 4AN Red Cap Plug 1 AN 101-SNOS (44) Rod Red Cap Plug 1 AN 101-SNOS (44) Rod Red Cap Plug 1 AN 101-SNOS (44) Rod Red Cap Plug 1 AN 101-SNOS (45) Rod Red Wire 1 15602NOS (46) Rod Red Wire 1 15602NOS (47) Rod Red Wire 1 15602NOS (40) Rod Red Red Wire 2 15648-SNOS (40) Rod Red Red Red Wire 2 15648-SNOS (40) Rod Red Red Red Red Red Red Red Wire 2 15648-SNOS (40) Rod Red Red Red Red Red Red Red Red Red Re	(10)	Intake Adapter Gaskets	2	
(13) 3AN - 1/8 NPT Red Adapter 1 17951NOS (14) 4AN - 1/8 NPT Blue Adapter 1 17960NOS (15) 0.026" Flare Jet 1 13760-28NOS (16) 0.028" Flare Jet 1 13760-28NOS (17) 0.040" Flare Jet 1 13760-28NOS (17) 0.040" Flare Jet 1 13760-40NOS (18) 0.044" Flare Jet 1 13760-40NOS (19) 4AN 14 ft. Blue Hose 1 15295NOS (20) 4AN - 8.5" Fuel Hose (Red) 1 15201NOS (21) 3AN - 3" Fuel Hose (Red) 1 15201NOS (22) 4AN 16 90" 3AN 27" Nitrous Hose (Blue) 1 15010NOS (23) 2003-2004 Cobra NOS Plate Assembly*** 1 40R814A (24) Nut, M8 x 125 Hex* 1 39R452 (25) Nut, M6 x 1.0 Hex* 1 39R452 (26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NOS Solenoid - Ford Cobra 1 49R2079 (29) Bracket, Fuel Solenoid - Ford Cobra 1 49R2080 (30) Bracket, Switch WOT - Ford Cobra 1 49R2081 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2082 (32) Male Spade Connector 1 15886B-SNOS (33) Ring Terminal 16-14 2 15880-SNOS (38) Green Male Spade Terminal 16-14 2 15880-SNOS (39) Ring Terminal 10-12 1 204R241-9 (40) 4AN Red Cap Plug 1 15648-SNOS (39) Ring Terminal 10-12 1 204R241-9 (40) 4AN Red Cap Plug 1 15648-SNOS (41) Basic Wire Pack* 1 15648-SNOS (42) Blue Mile Spade Terminal .25 7 15885B-SNOS (44) Blue Mile Spade Terminal .25 7 15885B-SNOS (44) Blue Mile Spade Term	(11)	N₂O Filter	•	15560NOS
(14) 4AN - 1/8 NPT Blue Adapter 1 17960NOS (15) 0.026" Flare Jet 1 13760-26NOS (16) 0.028" Flare Jet 1 13760-26NOS (17) 0.040" Flare Jet 1 13760-26NOS (18) 0.044" Flare Jet 1 13760-40NOS (18) 0.044" Flare Jet 1 13760-40NOS (19) 4AN 14 ft. Blue Hose 1 15295NOS (20) 4AN - 8.5" Fuel Hose (Red) 1 15201NOS (21) 3AN - 3" Fuel Hose (Red) 1 15201NOS (21) 3AN - 3" Fuel Hose (Red) 1 15010NOS (23) 2003-2004 Cobra NOS Plate Assembly*** 1 40R814A (24) Nut, M8 x 125 Hex* 1 39R452 (25) Nut, M6 x 1.0 Hex* 1 39R462 (26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NOS Solenoid - Ford Cobra 1 49R2079 (29) Bracket, Switch WOT - Ford Cobra 1 49R2080 (30) Bracket, Switch WOT - Ford Cobra 1 49R2081 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2082 (32) Male Spade Connector 1 15751-VSNOS (33) 14 Gauge Blue Wire 1 15755-VSNOS (36) #6 Open Spade Terminal 1-81 2 15886-SNOS (39) Ring Terminal 122-18 2 15886-SNOS (39) Ring Terminal 12-12 1 204R241-9 (40) 4AN Red Cap Plug 1 15602NOS (14* Ring Terminal 1-12 1 204R241-9 (40) 4AN Red Cap Plug 1 1564-SNOS (14* Ring Terminal 1-12 1 204R241-9 (40) 4AN Red Cap Plug 1 15648-SNOS (14* Ring Terminal 1-25 1 15886-SNOS (14* Ring Terminal 2-5 7 15885-SNOS (15* Ring Terminal	(12)		1	15571NOS
(15)	(13)	3AN – 1/8 NPT Red Adapter	1	
(16) 0.028" Flare Jet 1 13760-28NOS (17) 0.040" Flare Jet 1 13760-40NOS (18) 0.044" Flare Jet 1 13760-44NOS (19) 4AN 14 ft. Blue Hose 1 15295NOS (20) 4AN - 8.5" Fuel Hose (Red) 1 15201NOS (21) 3AN - 3" Fuel Hose (Red) 1 15201NOS (22) 4AN to 90" 3AN 27" Nitrous Hose (Blue) 1 15010NOS (23) 2003-2004 Cobra NOS Plate Assembly*** 1 40R814A (24) Nut, M8 x 125 Hex* 1 39R452 (25) Nut, M6 x 1.0 Hex* 1 39R462 (26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NOS Solenoid - Ford Cobra 1 49R2079 (29) Bracket, Fuel Solenoid - Ford Cobra 1 49R2081 (30) Bracket, Switch WOT - Ford Cobra 1 49R2081 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2082 (32) Male Spade Connector 1 15886B-SNOS (33) 14 Gauge Red Wire 1 15751-VSNOS (34) 16 Gauge Red Wire 1 15755-VSNOS (35) #10 Ring Terminal 16-14 2 15880-SNOS (37) #10 Ring Terminal 16-14 2 15880-SNOS (39) Ring Terminal 10-12 1 204R21-9 (40) 4AN Red Cap Plug 1 A1001-SNOS (41) Basic Wire Pack* 1 15640-SNOS (42) Basic Wire Pack* 1 15640-SNOS (43) Basic Wire Pack* 1 15602NOS (44) Basic Wire Pack* 1 15602NOS (45) Basic Wire Pack* 1 15602NOS (46) Basic Wire Pack* 1 15602NOS (47) Basic Wire Pack* 1 15602NOS (48) Basic Wire Pack* 1 15640NOS (41) Basic Wire Pack* 1 15640NOS (41) Basic Wire Pack* 1 15640NOS (41) Basic Wire Pack* 1 15640NOS (44) Basic Wire Pack* 1 15	(14)	4AN – 1/8 NPT Blue Adapter	1	17960NOS
(17) 0.040" Flare Jet 1 13760-40NOS (18) 0.044" Flare Jet 1 13760-44NOS (19) 4AN 14 ft. Blue Hose 1 15295NOS (20) 4AN - 8.5" Fuel Hose (Red) 1 15201NOS (21) 3AN - 3" Fuel Hose (Red) 1 15010NOS (22) 4AN to 90" 3AN 27" Nitrous Hose (Blue) 1 15034NOS (23) 2003-2004 Cobra NOS Plate Assembly*** 1 40R814A (24) Nut, M6 x 125 Hex* 1 39R452 (25) Nut, M6 x 1.0 Hex* 1 39R462 (26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NOS Solenoid - Ford Cobra 1 49R2079 (29) Bracket, Fuel Solenoid - Ford Cobra 1 49R2080 (30) Bracket, Fuel Solenoid - Ford Cobra 1 49R2080 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2080 (33) Ha Gauge Brau Wire 1 15751-VSNOS (34) 16 Gauge Red Wire 1 15751-VSNOS (35) 14 Gauge Breminal 16-14 2 15880-SNOS (37) #10 Ring Terminal 22-18 2 15881-SNOS (38) Ring Terminal 10-12 1 204R241-9 (40) 4AN Red Cap Plug 1 A1001-SNOS (41) Basic Wire Pack* 1 15602-NOS (41) Basic SNOS (41) Basic SNOS (41	(15)	0.026" Flare Jet	1	13760-26NOS
(18) 0.044" Flare Jet 1 13760-44NOS (19) 4AN 14 ft. Blue Hose 1 15295NOS (20) 4AN – 8.5" Fuel Hose (Red) 1 15295NOS (21) 3AN – 3" Fuel Hose (Red) 1 15010NOS (22) 4AN to 90" 3AN 27" Nitrous Hose (Blue) 1 15010NOS (23) 2003-2004 Cobra NOS Plate Assembly*** 1 40R814A (24) Nut., M8 x 125 Hex* 1 39R452 (25) Nut, M6 x 1.0 Hex* 1 39R462 (26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NOS Solenoid - Ford Cobra 1 49R2080 (30) Bracket, Fuel Solenoid - Ford Cobra 1 49R2080 (30) Bracket, Switch WOT - Ford Cobra 1 49R2080 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2082 (32) Male Spade Connector 1 15886B-SNOS (33) 14 Gauge Blue Wire 1 15751-VSNOS (34) 16 Gauge Red Wire 1 15778-VSNOS (35) 14 Gauge Green Wire 1 15778-VSNOS (36) #6 Open Spade Terminal 16-14 2 15880-SNOS (39) Ring Terminal 22-18 2 15881-SNOS (39) Ring Terminal 20-12 1 204R241-9 (40) 4AN Red Cap Plug Rocket Shord	(16)			13760-28NOS
(19)				
(20)	(18)	0.044" Flare Jet	1	13760-44NOS
(21) 3AN - 3" Fuel Hose (Red) 1 15010NOS (22) 4AN to 90" 3AN 27" Nitrous Hose (Blue) 1 15034NOS (23) 2003-2004 Cobra NOS Plate Assembly*** 1 40R814A (24) Nut, M8 x 125 Hex* 1 39R452 (25) Nut, M6 x 1.0 Hex* 1 39R462 (26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NOS Solenoid - Ford Cobra 1 49R2079 (29) Bracket, Fuel Solenoid - Ford Cobra 1 49R2080 (30) Bracket, Switch WOT - Ford Cobra 1 49R2081 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2082 (32) Male Spade Connector 1 15886B-SNOS (33) 14 Gauge Blue Wire 1 15775-VSNOS (34) 16 Gauge Red Wire 1 15778-VSNOS (35) 14 Gauge Green Wire 1 15778-VSNOS (36) #6 Open Spade Terminal 16-14	(19)		1	15295NOS
(22) 4AN to 90° 3AN 27" Nitrous Hose (Blue) 1 15034NOS (23) 2003-2004 Cobra NOS Plate Assembly*** 1 40R814A (24) Nut, M8 x 125 Hex* 1 39R452 (25) Nut, M6 x 1.0 Hex* 1 39R462 (26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NOS Solenoid - Ford Cobra 1 49R2079 (29) Bracket, Switch WOT - Ford Cobra 1 49R2080 (30) Bracket, Fuel Solenoid - Ford Cobra 1 49R2081 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2082 (32) Male Spade Connector 1 15886B-SNOS (33) 14 Gauge Blue Wire 1 15751-VSNOS (34) 16 Gauge Red Wire 1 15778-VSNOS (35) 14 Gauge Green Wire 1 15778-VSNOS (36) #6 Open Spade Terminal 16-14 2 15880-SNOS (37) #10 Ring Terminal 22-18	(20)	4AN – 8.5" Fuel Hose (Red)	1	15201NOS
(23) 2003-2004 Cobra NOS Plate Assembly*** 1 40R814A (24) Nut, M8 x 125 Hex* 1 39R452 (25) Nut, M6 x 1.0 Hex* 1 39R462 (26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NOS Solenoid - Ford Cobra 1 49R2079 (29) Bracket, Fuel Solenoid - Ford Cobra 1 49R2080 (30) Bracket, Fuel Solenoid - Ford Cobra 1 49R2081 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2082 (32) Male Spade Connector 1 15886B-SNOS (33) 14 Gauge Blue Wire 1 15751-VSNOS (34) 16 Gauge Red Wire 1 15775-VSNOS (35) 14 Gauge Green Wire 1 15778-VSNOS (36) #6 Open Spade Terminal 16-14 2 15880-SNOS (37) #10 Ring Terminal 22-18 2 15881-SNOS (38) Green Male Spade Terminal .187 2 15888-SNOS (39) Ring Terminal 10-12 1 204R241-9 (40) 4AN Red Cap Plug 1 A1001-SNOS (41) Basic Wire Pack* 1 15612-VSNOS (41) Basic Wire Pack* 1 15640-NOS (41) Basic Wire Pack* 1 15648-SNOS (41) Basic Wire Pack* 1 15648-SNOS (41) Basic Wire Pack* 1 15648-SNOS (41) Basic Wire Pack* 2 15647-SNOS (42) Blue Female Spade Terminal .25 7 15885B-SNOS (43) Blue Female Spade Terminal .25 1 15885B-SNOS (44) Blue Female Spade Terminal .25 1 15885B-SNOS (458B-SNOS) (460 Blue Male Spade Terminal .25 1 15885B-SNOS	(21)	3AN – 3" Fuel Hose (Red)	1	15010NOS
(24) Nut, M8 x 125 Hex* 1 39R452 (25) Nut, M6 x 1.0 Hex* 1 39R462 (26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NOS Solenoid - Ford Cobra 1 49R2079 (29) Bracket, Fuel Solenoid - Ford Cobra 1 49R2080 (30) Bracket, Switch WOT - Ford Cobra 1 49R2081 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2082 (32) Male Spade Connector 1 15886B-SNOS (33) 14 Gauge Blue Wire 1 15751-VSNOS (34) 16 Gauge Red Wire 1 15751-VSNOS (35) 14 Gauge Green Wire 1 15778-VSNOS (36) #6 Open Spade Terminal 16-14 2 15880-SNOS (37) #10 Ring Terminal 22-18 2 15886-SNOS (38) Green Male Spade Terminal .187 2 15885-SNOS (39) Ring Terminal 10-12 1			1	
(25) Nut, M6 x 1.0 Hex* 1 39R462 (26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NOS Solenoid - Ford Cobra 1 49R2079 (29) Bracket, Fuel Solenoid - Ford Cobra 1 49R2080 (30) Bracket, Switch WOT - Ford Cobra 1 49R2081 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2082 (32) Male Spade Connector 1 15886B-SNOS (33) 14 Gauge Blue Wire 1 15751-VSNOS (34) 16 Gauge Red Wire 1 15755-VSNOS (35) 14 Gauge Green Wire 1 15778-VSNOS (36) #6 Open Spade Terminal 16-14 2 15880-SNOS (37) #10 Ring Terminal 22-18 2 15881-SNOS (38) Green Male Spade Terminal .187 2 15886-SNOS (39) Ring Terminal 10-12 1 204R241-9 (40) 4AN Red Cap Plug 1	(23)	2003-2004 Cobra NOS Plate Assembly***	1	40R814A
(26) Stud, M8-125 x 50mm* 4 37R511 (27) Screws, Solenoid Mounting* 4 16501-SNOS (28) Bracket, NOS Solenoid - Ford Cobra 1 49R2079 (29) Bracket, Fuel Solenoid - Ford Cobra 1 49R2080 (30) Bracket, Switch WOT - Ford Cobra 1 49R2081 (31) Bracket, Throttle/Cruise Cable - Ford Cobra 1 49R2082 (32) Male Spade Connector 1 15886B-SNOS (33) 14 Gauge Blue Wire 1 15751-VSNOS (34) 16 Gauge Red Wire 1 15778-VSNOS (35) 14 Gauge Green Wire 1 15778-VSNOS (36) #6 Open Spade Terminal 16-14 2 15880-SNOS (37) #10 Ring Terminal 22-18 2 15881-SNOS (38) Green Male Spade Terminal .187 2 15886-SNOS (39) Ring Terminal 10-12 1 204R241-9 (40) 4AN Red Cap Plug 1 A1001-SNOS (41) Basic Wire Pack* 1		Nut, M8 x 125 Hex*	1	
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*All parts are not shown in Figure 1.

^{**}If you have the 02120-15NOS kit, the 15 lb. bottle P/N is 14750NOS. If you have the 02120-20NOS kit, the 20 lb. bottle P/N is 14760NOS, short bracket P/N is 14151-SNOS, & the long bracket P/N is 14152-SNOS.

***Only the plate is shown in the illustration.

Figure 1 Kit Number 02120NOS Component Identification



Chapter 2 Kit Installation

2.1 Bottle Mounting Instructions

Accurate calibration of your NOS nitrous system depends on the bottle remaining at a stable temperature. Mount the bottle away from heat sources, such as the engine compartment or exhaust system, and away from windows, where the bottle is exposed to direct sunlight.

2.2 Bottle Orientation

Bottle placement is critical to the performance of your NOS nitrous system. It is important to understand how the bottle valve and siphon tube are assembled to properly orient the bottle in your vehicle and ensure that it picks up liquid nitrous while undergoing acceleration. All nitrous bottles are assembled so that the bottom of the siphon tube is at the bottom of the bottle and opposite the bottle label (Figure 2).

Whenever the bottle is mounted in a lay-down position, the valve handle must be towards the front of the vehicle with the label facing up (Figure 3A).

If the bottle is mounted vertically, the valve handle and label must face toward the front of the vehicle (Figure 3B). This orientation will position the siphon tube at the back of the bottle where the liquid N_2O will be during acceleration.

WARNING! DO NOT attempt to remove the siphon tube without completely emptying the bottle of all N₂O and pressure.

A bottle mounted upside-down must have the siphon tube removed before use (Figure 3C). Non-siphon bottles can be specially ordered from NOS.

If the bottle must be mounted parallel to the axles of the vehicle (sideways), the valve handle and label must be angled at approximately 45° toward the front of the vehicle (Figure 3D). This orientation will position the siphon tube toward the rear of the bottle.

NOTE: When using a bottle with a siphon tube, the tall bracket should be at the valve end of the bottle and the short bracket at the bottom (Figure 3E).

The most efficient mounting is the lay-down position (Figure 3A) with the valve handle toward the front of the vehicle. This position allows the greatest amount of liquid to be used before the siphon tube begins to pick up gaseous nitrous oxide.

Find a position in the rear of your Ford Mustang vehicle that meets your personal preference. Make sure that it meets the guidelines show in Figure 3.

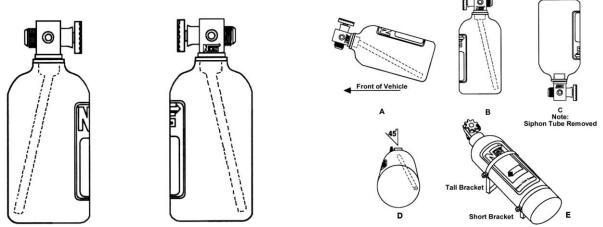


Figure 2 Nitrous Bottle Siphon Tube Orientation

Figure 3 Nitrous Bottle Mounting Orientations

2.3 Bottle Installation

Before mounting a nitrous bottle in a racing vehicle intended for use in sanctioned events, check with the sanctioning association for any rules regarding this subject. Most associations require the bottle to be mounted within the confines of the safety roll cage with the safety pressure relief cap vented away from the driver's compartment. This feature is included in the 02120NOS kit.

NOTE: Numbers in parentheses () refer to the parts list (Table 1).

1. Install the bottle nut adapter (1) and washer (2) on the nitrous bottle (3), and tighten securely.

- 2. Slip the bottle mounting brackets (4 & 5) onto the nitrous bottle, as shown in Figure 3E.
- 3. Locate the bottle assembly in the desired mounting location, ensuring that the location will provide easy access to the bottle valve, hose connection, bracket clamp bolts to facilitate bottle changing and through hole of the blow-down tube.
- 4. Use the assembled bottle/bracket unit as a pattern to mark for hole drilling. Drill four 11/32" holes in the mounting surface for the bottle bracket bolts. *Make sure the holes are in a position that does not damage other components.*

CAUTION! When drilling or punching holes for these fasteners, be aware what components, wires, hoses or fluid reservoirs are located or routed behind the general area to avoid vehicle or equipment malfunction.

- 5. Mount the brackets securely to the surface (recommended minimum of 5/16" bolts or No. 12 sheet metal screws).
- 6. Secure the nitrous bottle in the mounting brackets and tighten the bracket clamps.
- 7. Route the blow-down tube through the hole in the trunk, install and fasten to the fitting on the bottle valve.

2.4 02120NOS Kit Plate Installation

WARNING! Do not smoke, carry lighted tobacco, or allow an open flame of any type when working on or near any fuelrelated components. Highly flammable mixtures are always present and may be ignited. Failure to follow these instructions may result in personal injury.

- 1. Disconnect negative battery cable.
- 2. Remove the vacuum hose, PCV hose and Inlet air temp sensor electrical plug from air duct (Figure 4).
- 3. Loosen the two clamps and remove air duct assembly from air box and throttle body (Figure 4).

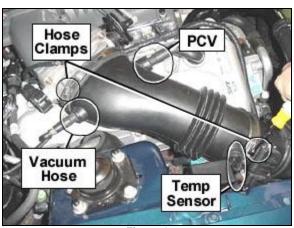


Figure 4

4. Disconnect throttle and cruise control cables from butterfly (Figures 5 & 6).

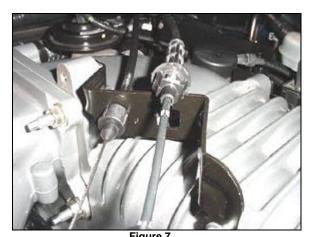


Figure 5



Figure 6

- 5. Using a pair of pliers or channel locks, gently remove cables from bracket (Figure 7).
- 6. Unbolt the throttle cable bracket using an 8mm wrench or socket. Note the rear mounting position it will be re-installed on the other side of that mount (Figure 8).





Figure

- 7. Disconnect the TPS electrical plug, the IAC electrical plug and evaporative emission return line from the throttle body and elbow assembly (Figure 9).
- 8. Using a 13mm wrench, remove the 4 nuts securing the throttle body elbow to the supercharger (Figure 10).

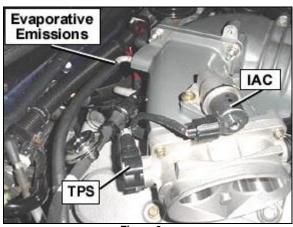






Figure 10

9. Install the blue NPT to AN fittings in the Nitrous solenoid. The fitting with the screen (filter) should be installed on the inlet side of the solenoid (solenoids are clearly marked IN and OUT). Use a Teflon based thread sealer on the NPT threads, making sure not to get any sealer into the inlet or outlet ports (Figure 11).



Figure 11

10. Mount the solenoid on the provided bracket using the included solenoid mounting screws. Orient the solenoid so that the inlet side will face the fender and the outlet side will face the center of the car (as shown in Figures 12a & 12b).



Figure 12a

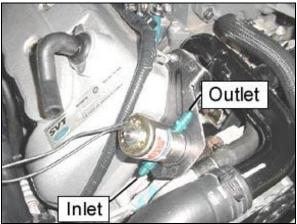


Figure 12b

11. Using the M8 and M6 nuts included, install the NOS solenoid bracket. DO NOT remove the existing nuts on studs, install bracket over them and add included nuts (Figures 13a & 13b).

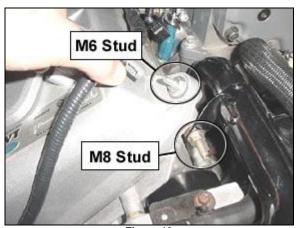


Figure 13a



Figure 13b

12. Route the outlet NOS line from the outlet side of the NOS solenoid along the fuel rail to the rear of the engine compartment. Be sure to orient the 90° end so that it faces forward (Figures 14a & 14b).



Figure 14a



Figure 14b

- 13. Remove the four factory elbow/throttle body studs. It is recommended that you "double nut" them to remove (tighten two nuts together on the stud, then turn the inside nut in a loosening motion; this should back the stud out of the super charger body). Or use a stud removal tool (Figure 15).
- 14. Reinstall the supplied studs into super-charger body. Tighten securely (Figure 16).





Figure 15

Figure 16

- 15. Install a new gasket and the NOS plate. The red (fuel) fitting must be facing forward and down at a 45° angle as shown. The blue NOS fitting should face the rear of the vehicle (Figure 17).
- 16. Install another gasket and re-attach the elbow/throttle body assembly. Tighten all four nuts securely.
- 17. Re-attach the two electrical plugs and evaporative emissions line to the throttle body/elbow assembly (Figure 18).



Figure 17

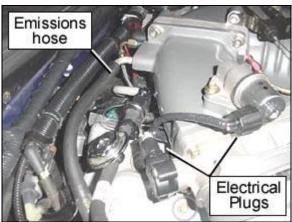


Figure 18

- 18. Install the included throttle and cruise control cable bracket. Note that the rear bracket bolt now attaches from the passenger side instead of the driver's side of the vehicle. Loosely connect the front for now (Figure 19)
- 19. Install the red NPT to -3 and -4 fittings into the fuel solenoid. The 4AN fitting with screen goes to the INLET side and 3AN fitting to the OUTLET side as shown. Use a small amount of thread sealant. Use caution not to get any sealer into the ports (Figure 20).



Figure 19



Figure 20

20. Mount the fuel solenoid on the provided fuel solenoid bracket, as shown in Figure 20.

21. Attach the fuel solenoid and bracket to the supercharger using the bolt that secures the throttle cable bracket as shown. Torque to 89 in*lb (10Nm) (Figure 21).

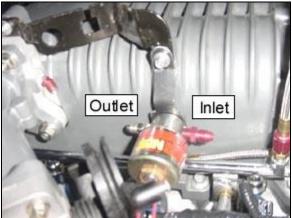


Figure 21

NOTE: It is recommend to skip steps 21-23 until after wiring and testing the solenoids. Once properly wired and tested, come back to steps 22-24 and plumb the fuel supply line from the fuel rail to the fuel solenoid. Skip to step 25.

WARNING! Fuel in the fuel system remains under high pressure even after the engine is shut off. Before working on or disconnecting any of the fuel lines or fuel system components, the fuel pressure must be relieved. Failure to follow these instructions may result in personal injury.

- 22. Remove the plastic cap on the Schrader valve and carefully bleed any pressure in the fuel system. Thoroughly clean any fuel mess created in the engine bay. Using a 9mm wrench, remove the Schrader valve assembly from the fuel rail (use caution not to let any dirt or thread sealer enter the fuel rail) (Figure 22).
- 23. Using a 9/16 wrench, re-install the Schrader valve adapter (with thread sealant). Tighten until snug, over-tightening will damage the fitting threads (Figure 23).



Figure 22



Figure 23

- 24. Attach the 8" -4 fuel hose to the Schrader valve adapter. Make a tight loop and attach to the inlet port of the fuel solenoid as shown in Figure 24.
- 25. Select your fuel jet and install using the 3" fuel hose from the outlet port of the fuel solenoid to the nitrous plate. This is a tight bend radius and the fuel solenoid bracket may have to be loosened and rotated to orient the hose fittings for proper attachment (Figure 25a & 25b).



Figure 24

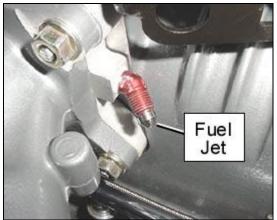


Figure 25a



Figure 25b

26. Select and install the appropriate NOS jet to match the installed fuel jet. Tighten until snug (Figures 26a & 26b).



Figure 26a



Figure 26b

- 27. Re-install throttle cable and cruise control cable into bracket and re-attach ends to butterfly (Figure 27).
- 28. Assemble the Wide-Open-Throttle (WOT) switch and bracket as shown in Figure 28.



Figure 27



Figure 28

- 29. Using an 8mm, remove the two right-side throttle body bolts (Figure 29).
- 30. Install the WOT switch and bracket using the stock throttle body bolts. Torque to 89 in*lb (10Nm), as shown in Figure 30.

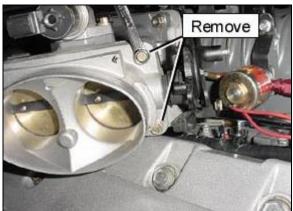


Figure 29



Figure 30

WARNING! Binding or dragging of the throttle linkage will create a potentially dangerous stuck-throttle condition. Ensure that the microswitch does not interfere with normal throttle linkage operation.

- 31. The WOT switch should engage when the car is at WOT. Have someone push the accelerator pedal to ensure that it functions correctly. It makes an audible "click" when triggered. Also, make sure that it is not obstructing the throttle from going wide-open, the butterfly should hit the throttle stop at arrow "A". Repeat several times to assure repeatable trigger. Adjust the position of the microswitch or adjust the tongue using needle-nose pliers if no trigger is audible (Figure 31).
- 32. Reinstall your air duct from the air box to the throttle body. Re-attach the inlet air temp electrical plug, the vacuum plug to the rear and the PCV hose (Figure 32).

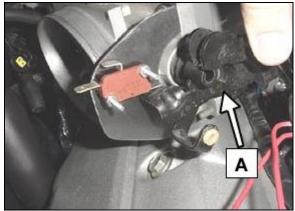


Figure 31



Figure 32

2.6 Main Nitrous Feed Line Mounting

CAUTION! If drilling or punching holes is required when routing the main nitrous line, be aware what components, wires, harnesses, hoses or fluid reservoirs are located or routed behind the general area to avoid vehicle or equipment malfunction. Use a rubber grommet to avoid nitrous line damage.

- 1. Examine the underbody of the vehicle to determine the nitrous supply line route.
- Route the nitrous supply line along the proposed route. Keep the line away from the exhaust and moving components. Make sure the line is securely fastened. Rubber coated clamps are recommended for this.
- It is recommended to route the Nitrous supply line into the fender and exit from inner fender opening as shown in figure 33(a). Route line downward from the fender opening and under the air-box to the NOS solenoid inlet fitting. Tighten securely.





Figure 33a

Figure 33b

2.7 Electrical System

Refer to Figure 34 and procedures in this section for electrical system installation.

WARNING! Death or injury may occur from working on a charged electrical system.

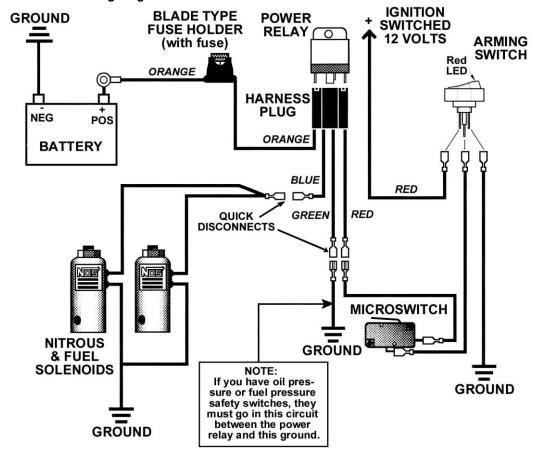
- 1. Disconnect the car battery at the ground cable (if not already done).
- 2. Install the NOS arming switch in the vehicle interior, within easy reach of the driver.
- 3. Install the wiring relay in the engine compartment near the battery. The relay's orange wire should reach the battery (+) terminal.
- 4. Connect the orange relay wire (with fuse) to the battery (+) terminal.
- 5. Connect one wire from each solenoid together. Join the solenoid wires to the blue relay wire.
- 6. Connect the green relay wire to a good chassis ground.
- 7. Connect the red relay wire to either terminal on the microswitch.
- 8. Connect the other terminal on the microswitch to the center terminal on the arming switch.
- 9. Connect the terminal (away from the LED) on the arming switch to a switched +12 volt power source.
- 10. Connect the terminal (on the side of the LED) of the arming switch to the ground.
- 11. Reconnect the battery.

CAUTION: Make certain the nitrous bottle is closed and the fuel supply line is not connected. Failure to comply may result in the intake manifold being filled with nitrous and/or fuel creating a potential engine explosion on start up.

- 12. Temporarily ground open lead of the nitrous solenoid.
- 13. Turn ignition key to on position (DO NOT start engine)

- 14. Turn the arming switch on.
- 15. Hold the throttle wide open. You should hear a clicking noise if the nitrous solenoid is activated correctly. If no noise is heard, check all the wiring connections and the wiring schematic.
- 16. Disconnect the grounded wire of the nitrous solenoid and connect the open lead of the fuel solenoid to ground
- 17. Turn ignition key to on position (DO NOT start engine)
- 18. Turn the arming switch on.
- 19. Hold the throttle wide open. You should hear a clicking noise if the fuel solenoid is activated correctly. If no noise is heard, check all the wiring connections and the wiring schematic.
- 20. Connect the remaining solenoid wire from each solenoid to ground.

Figure 34 General Electric Wiring Diagram



WIRING COLOR KEY			
ORANGE	TO BATTERY POSITIVE (+) TERMINAL		
BLUE	TO ONE WIRE FROM EACH SOLENOID		
GREEN	TO GROUND		
RED	TO IGNITION SWITCHED + 12V THROUGH MICROSWITCH AND ARMING SWITCH		

2.8 Fuel Solenoid Feed Line Installation

NOTE: This section duplicates steps 22-24 in the Plate installation section

Fuel enrichment for the 02120NOS system is supplied via the existing engine's fuel injection system. Locate the fuel pressure diagnostic port (also called Schrader valve) on the fuel rail. The Schrader valve is on the front of the fuel rail located on the passenger side of the engine.

1. Unscrew the plastic protection cap.

- 2. Relieve fuel pressure via the Schrader valve. Collect fuel or clean any fuel spilled in the engine bay area.
- 3. Remove the Schrader valve.
- 4. Install the 4AN x 1/16 NPT fitting into the fuel rail. Apply Teflon paste to all external <u>pipe</u> threads to ensure a leak-proof installation.

CAUTION! Do not over-tighten the fitting as damage of the fuel rail might occur.

- 5. Connect the 4AN 8" fuel hose fitting to the 4AN x 1/16 NPT fitting on the fuel rail.
- 6. Connect the other end of the main supply hose to the fuel solenoid inlet by making a tight loop as shown in figure 25.

2.9 Testing for Proper Operation without Nitrous Bottle Hook Up

- 1. Connect battery and prime the fuel system by cycling the ignition switch from OFF to ON and back to OFF waiting 10 seconds for each interval. Start the engine and check for leaks in the main fuel and secondary system: i.e. fuel injector, fuel supply line to the fuel solenoid, fuel quick disconnect to the fuel rail, etc.
- 2. Check the WOT switch. These are tested under WOT condition and listening for the clicking sound when the solenoids are activated. WOT condition should be tested in a safe open road area and within legal driving limits. A small lamp can be used to indicate solenoid operation if the engine application does not allow listening for solenoid activation.
- 3. Make sure a filled nitrous bottle is **NOT open or connected** when performing all of these tests. If it is, engine damage might occur. The nitrous solenoid ground should be disconnected as well (would be a vacuum leak when activated with nothing attached to the other end).
- 4. Start the engine and let it run until reaching normal operating temperature.
- 5. Once in a safe open road area (within legal driving limits) and with the arming switch turned "ON" (it should light up), move the gas pedal to the floor. As soon as WOT condition is reached you should hear the solenoid click on. At this time, fuel enrichment through the plate should be supplied the engine. This will make the engine very rich. This verifies proper functioning of the system. Do not run the vehicle like this for an excessive period of time. When you let the pedal back up, the solenoids should click off. If proper functioning does not occur, call the NOS technical service department and troubleshoot the system.

2.10 Preparing for Operation

- 1. Install a fully charged nitrous bottle. The pressure gauge should read 900-1000 psi at operating temperature/pressure.
- 2. Connect the nitrous solenoid around.
- 3. Start the engine and open the nitrous bottle valve.

NOTE: There should be no change in the engine idle speed or exhaust tone. If either changes, refer to Appendix A, Troubleshooting Guide.

- 4. Inspect the nitrous lines and fittings for leaks.
- 5. When you want to activate the nitrous, turn on the arming switch and it should light up. When the throttle is pressed wide open, the nitrous will automatically activate. The nitrous pressure should always be between 900 and 1000 PSI. If it is lower than this, lesser performance can result.

WARNING! Never activate nitrous with the vehicle in "NEUTRAL" or "PARK"!

WARNING! Never activate nitrous at engine speeds below 3000 RPM, or engine damage may result!

WARNING! THE TRACTION CONTROL MUST BE TURNED OFF when using the nitrous, or engine damage will result!

6. ENJOY!

Chapter 3 Tuning

Your NOS Kit Number 02120NOS is factory set to work with stock 4V supercharged Cobra 4.6L engine settings. For maximum performance, follow the settings listed in Table 2.

Table 2 Tuning Suggestions for NOS Kit Number 02120NOS

Configuration	N₂O Jetting	Fuel Jetting	Fuel Quality	Ignition Timing	Plugs
100 HP	040	026	High Octane *	Stock	Stock**
125 HP	044	028	High Octane *	Stock	Stock**

^{*}High Octane refers to 92+ Premium with Octane Booster or Unleaded Race Gas (104)

Spark Plug Information:

Autolite PN	Motorcraft PN	<u>NGK PN</u>	Steps Colder than Stock
AP104	AGSF 12FM1	3689	0 - Stock Replacement
AP103	AGSF 12FM	3346	1
APP103			1 (Double Platinum)
AR103		3690	1 (race version)
		1049	2

Chapter 4 Determining Optimum System Performance

The jetting combinations included in your 02120NOS kit are intended to generate power gains of 100-125 HP. These combinations are designed to be used with 950 psi of nitrous bottle pressure and 43 psi of flowing fuel pressure. Spark plug inspection and/or the use of a wide-band O_2 sensor can determine optimum system performance. Inspection of the spark plugs should be done on a consistent basis.

Perform a dynamometer pull or a full throttle pass down the racetrack. Note the power reading or vehicle mph (not e.t.).
 Examine the spark plugs for an indication of lean or rich nitrous/fuel conditions (refer to Figure 20 for tips on reading the spark plugs). For this application, the air/fuel mixtures at WOT tend to be very rich in stock form. You may wish to examine a plug after a NO-nitrous pass or dyno pull for comparison purposes.

CAUTION! Terminate test immediately if pinging, knocking, detonation is noticed during the test. If engine does not pull hard (expected HP or torque gains are not observed), terminate test and investigate before continuing.

- 1A. If spark plugs appear to be excessively rich, decrease the fuel jet size 1 step (ex. 28 to 26 or 26 to 24).
- 1B. If spark plugs appear to be excessively lean, increase the fuel jet size 1 step.
- 1C. If spark plugs have a "like new" appearance on the porcelain and electrode, do not make a fuel jetting change.
- 2. Repeat these steps until the desired mixture is obtained.

How to Read Spark Plugs from a Nitrous Oxide Injected Engine

A. Correct Timing, Mixture, and Spark Plug Heat Range

The ground strap retains a "like new" appearance. The edges are crisp, with no signs of discoloration. The porcelain retains a clear white appearance with no "peppering" or spotting.

B. Excessively Rich Mixture

The porcelain may be fuel stained, appearing brown or black. In extreme cases, the ground strap, electrode, and porcelain may be damp with gasoline, or smell of fuel.

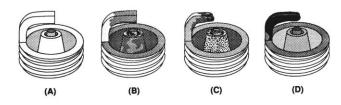
C. Detonation

The edges of the ground strap may become rounded. The porcelain has the appearance of being sprinkled with pepper, or may have aluminum speckles. During heavy detonation, the ground strap tip may burn off. This phenomenon can result from excessive ignition timing, too high a heat range spark plug, inadequate fuel octane, or excessively lean mixture.

D. Excessively Lean Mixture

The edges of the ground strap may become rounded. Under moderate overheating, the tip of the ground strap can discolor, usually turning purple, or the entire ground strap can become discolored.

Figure 35 Spark Plug Condition



^{**}See Spark Plug information below. Stock plugs function properly at low HP addition, however colder plugs are recommended with N2O use.

Chapter 5 Alternate Sensor, Actuator, and Switch Components

- In some racing applications, "pushbutton solenoid" activation is preferred. In such instances, the solenoid is connected to ground via a pushbutton momentary switch P/N 15601NOS. For information on wiring options, please call NOS Technical Support at 1-866-GOHOLLEY.
- 2. Almost all multi-point fuel injection systems are provided with throttle position sensors. NOS has throttle position sensor controllers that activate the solenoids, according to the sensor voltage output. This form of solenoid activation procedure is commonly referred as "TPS activation". Such devices are more accurate than the microswitch. For P/Ns on TPS switches and information on wiring options, please call **NOS Technical Support at 1-866-GOHOLLEY.**
- 3. NOS offers fuel pressure safety switches. These switches only allow the nitrous and fuel solenoid to be activated, if a safe fuel pressure is existent in the enrichment fuel supply system. For information on pressure safety switches and information on wiring options, please call NOS Technical Support at 1-866-GOHOLLEY. The PCM's adaptive strategy techniques for this application may take duty cycle away from the fuel pumps and reduce fuel pressure after several consecutive nitrous runs. Consult SVT and/or Ford Technical service for assistance in correcting this situation.
- 4. Activation of nitrous at low RPM levels can be detrimental to the engine performance and engine life. The RPM window activation switch only allows the nitrous and fuel solenoid to be activated if a safe RPM value has been reached. Some factory engine control units cut off the ignition if a maximum RPM level is reached. Although the engine is still at WOT and the solenoids are activated no nitrous and fuel is combusted. When the engine reaches safe RPM levels ignition is restored but excess fuel and nitrous are present in the manifold. Some applications may even cut the fuel injector to limit engine RPM. Because the engine is at WOT, the nitrous solenoid is still open thus generating an extreme lean condition. Under both conditions engine damage might occur. The RPM window activation switch cuts off the supply of fuel and nitrous until safe RPM levels are reached. The low and high RPM values can be trimmed according to the application. For information on pressure safety switches and wiring options, please call NOS Technical Support at 1-866-GOHOLLEY.

Chapter 6 Routine Maintenance

6.1 Nitrous Solenoid Filter

When nitrous bottles are refilled, they can become contaminated with debris if the refiller does not have adequate filtration in his transfer pump mechanism. Contaminants in the bottle will eventually become lodged in the nitrous solenoid filter fitting. *Call 1-800-99-REFILL (1-800-997-3345) for bottle refill location information.*

You should periodically (after every 20-30 pounds of nitrous usage) examine the mesh in the nitrous filter for debris.

To clean the filter, follow the following steps:

- 1. Close the valve on the nitrous bottle.
- 2. Empty the main nitrous feed line.
- 3. Disconnect the main nitrous feed line from the nitrous solenoid.
- 4. Remove the nitrous filter fitting from the nitrous solenoid.
- 5. Remove all Teflon paste debris from the solenoid inlet port threads and from the nitrous solenoid filter pipe threads.
- 6. Examine the mesh in the nitrous filter fitting for contaminants. Blow out debris with compressed air, if necessary.
- 7. Apply fresh Teflon paste to the nitrous filter pipe threads. Reinstall the filter in the nitrous solenoid.
- 8. Reconnect the main nitrous supply line to the nitrous solenoid.

6.2 Nitrous Solenoid Plunger

6.2.1 General Information

The seals used in NOS nitrous solenoid plungers are constructed from materials which are designed to be used with nitrous oxide. When kept free from fuel contaminants or from overpressurization, they should provide trouble free performance.

You should periodically (after every 20-30 pounds of nitrous usage) examine the seal in the nitrous solenoid plunger.

The seals used in NOS nitrous solenoid plungers are designed to work at pressures up to 1100 psi. Exposing the plunger to excessive pressure (whether the vehicle is sitting or in-use) can result in the seal in the plunger swelling or in extreme cases disintegrating.

NOTE: The seals are designed so that if they fail due to overpressurization, they will not leak, the valve will just fail to flow nitrous oxide.

Swelling of the nitrous solenoid plunger seal will reduce nitrous flow (causing an excessively rich nitrous/fuel condition and a loss of power).

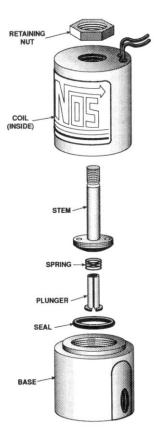
6.2.2 Nitrous Solenoid Plunger Disassembly and Inspection

- Close the valve on the nitrous bottle.
- 2. Empty the main nitrous supply line.
- 3. Remove the retaining nut from the nitrous solenoid.
- 4. Remove the coil and housing from the nitrous solenoid base.
- 5. Unscrew the stem from the nitrous solenoid base. Do this by double nutting the stem, or by using a solenoid stem removal tool (NOS P/N 16666-S). **Do not use pliers on the solenoid stem. Damage to the stem will result.**
- 6. Remove the stem, spring, and plunger from the solenoid base.
- Examine the plunger seal for swelling. The seal surface should be flat, except for a small circular indentation in the center of the seal;

A fuel-contaminated seal will protrude from the plunger and be dome-shaped. A fuel-contaminated seal may return to its original shape if left out in the fresh air for several days. It may then be returned to service.

A seal, which has been over-pressurized, may be dome-shaped, or the sealing surface may be flat with the seal protruding out of the plunger. A dome-shaped seal may return to its original shape if left out in the fresh air for several days. It may then be returned to service. A seal, which is flat, but protrudes from the plunger body has probably failed internally and should be replaced.

Figure 36 Exploded View of a Typical Solenoid



Appendix A Troubleshooting Guide

The troubleshooting chart on the following pages should help determine and rectify most problems with your installed NOS system. If you still need assistance determining or fixing problems, call NOS Technical Support Department at 1-866-GOHOLLEY or fax to 1-270-781-9772.

PROBLEM	POSSIBLE CAUSES	DIAGNOSTIC PROCEDURE	CORRECTIVE ACTION
No change in engine speed when the fuel	System wired incorrectly.	Compare wiring to schematic.	Wire per instructions.
solenoid is activated (Preparing for	Restricted fuel line.	Inspect fuel line for restrictions (crimped or plugged).	Remove restrictions.
Operation—Chapter 6).	Malfunctioning fuel solenoid.	Turn arming switch ON. Activate microswitch. Solenoid should make "clicking" noise.	Repair/replace solenoid.
Change in engine speed when nitrous bottle valve is opened (Preparing for Operation—Chapter 6).	Malfunctioning nitrous solenoid.	Remove and inspect solenoid.	Repair/replace solenoid.
Engine runs rich when system is activated.	Bottle valve not fully opened.	Check bottle valve.	Open valve fully.
•	Bottle mounted improperly.	Check bottle orientation.	Mount bottle properly.
	Plugged nitrous filter.	Inspect filter.	Clean/replace filter.
	Low bottle pressure.	Check bottle temperature.	Set bottle temperature to 80° to 85°F.
	Inadequate nitrous supply.	Weigh bottle.	Fill bottle. 1-800-997-3345 for refills nearest you.
	Mismatched N ₂ O/fuel jetting.	Compare jetting to recommended values.	Install correct jets.
	Excessive fuel pressure.	Install fuel pressure gauge, such as NOS P/N 15931NOS, in the fuel line. Measure the pressure during acceleration, with the system activated.	Regulate pressure down, or install smaller fuel jetting.
	Loose nitrous solenoid wiring.	Inspect the solenoid wiring.	Repair wiring.
	Malfunctioning nitrous solenoid.	warning: Solenoid discharges nitrous at a high rate. Don't inhale nitrous; death may occur. Skin contact may cause frostbite. Close bottle valve. Disconnect the solenoid outlet port. Disconnect the solenoid (+) lead. Open the nitrous bottle valve. Briefly connect the +12V to the solenoid. Solenoid should discharge N ₂ O at a high rate.	Rebuild solenoid.
No change in	System wired incorrectly.	Compare nitrous wiring to schematic.	Wire system per instr.
performance when system is activated.	Loose ground wire(s).	Connect 12V test light to battery (+) terminal. Check for continuity at grounds noted in schematic.	Tighten/repair loose ground(s).
	Malfunctioning pushbutton.	Turn bottle valve off. Turn arming switch on. Connect 12V test light to battery (-). Turn pushbutton switch ON. Check for continuity at pushbutton output pole.	Replace pushbutton.
	No power to arming switch.	With vehicle ignition on, connect 12V test light to battery (-) terminal. Check for power at pole #1 on arming switch.	Repair wiring.
	Malfunctioning arming switch.	With vehicle ignition on, turn arming switch ON. Connect 12V test light to battery (-) terminal. Check for power at red wire on arming switch.	Replace arming switch.
	Malfunctioning throttle microswitch.	Temporarily disconnect power relay green wire from microswitch. Connect 12V test light to battery (+) terminal. Manually set microswitch ON. Check for continuity at microswitch positive terminal (see wiring schematic).	Replace throttle microswitch.
	Overly rich fuel condition.	Check for black smoke or backfiring through exhaust with system activated.	Install smaller fuel jet or decrease fuel pressure.

Engine detonates mildly	Inadequate octane fuel.		Use higher octane fuel; up
when system is activated.	madequate octane raci.		to 116VPC-16.
	Spark plug heat range		Reduce spark plug heat
	too high.		range (maximum 2 steps).
	Too much nitrous flow.		Reduce nitrous jetting.
Engine detonates heavily	Inadequate fuel delivery		
when system is activated.	due to:		
	Plugged fuel filter.	Inspect fuel filter.	Clean or replace filter.
	Crimped fuel line.	Inspect fuel line.	Replace crimped line.
	Weak fuel pump.	Install fuel pressure gauge, such as NOS P/N 15931NOS. Run engine under load	Repair/replace fuel pump.
		at wide-open throttle, with system activated.	
High rpm misfire when	Excessive spark plug	Inspect spark plugs.	Set spark plug gap at
system is activated.	gap.		0.030" to 0.035".
	Weak ignition/ignition	Inspect components (plug wires,	Replace worn
	component failure.	distributor cap, etc.)	components.
Surges under	Inadequate supply of	Check bottle weight.	Replace with full bottle.
acceleration when	nitrous.		
system is activated.	Bottle mounted	Compare bottle position and orientation to	Mount or orient bottle
	incorrectly.	instructions.	correctly.

Nitrous Oxide Accessories

NOS systems are calibrated for optimum performance with a bottle pressure of 900-950 psi. The pressure will change with temperature. Heater kits are thermostatically controlled to keep the bottle near 85° F to provide correct pressure. **Bottle Heater** (*P/N 14164NOS*) is available for 10 & 15 lb. bottles.

Insulating the bottle helps maintain pressure by keeping heat in the bottle when it's cold, or heat out when it's hot outside. The blankets are made of a rugged, easily cleaned Nylon outer shell with insulation. It's also an excellent "dress up" accessory and perfect for "covering" battle-scarred bottles. **Bottle Blanket** (P/N 14165NOS) is a 7" diameter blanket for the 10 lb. bottle.

#10 Bottle Heater P/N 14164 NOS



Throttle/RPM-Activated Switch P/N 15879NOS



#10 Bottle Blanket P/N 14165NOS



Remote Bottle Valve P/N 14168NOS



The *Throttle/RPM-Activated Switch, P/N 15879NOS*, allows hands-free nitrous operation and prevents nitrous from being injected at speeds above or below operator-set levels. Greatly reduces chance of accidental engine damage. ON/OFF levels adjust from 2000 to 9000 RPM.

The *Remote Bottle Valve, P/N 14168NOS* is the perfect convenience accessory—this opener allows you to open and close your nitrous bottle from the driver's compartment with the flip of a switch—no more trips to the trunk. The complete kit includes hardware and installation instructions.

The *Nitrous Pressure Gauges, P/N 15910NOS (-4AN lines) or P/N 15912NOS (-6AN lines)* [0-1500 PSIG] are designed to provide accurate (± 2% of full scale) readings of fuel pressure in carbureted applications.

The *Fuel Pressure Gauges, P/N 15906NOS* [0-120 PSIG] *and P/N 15900NOS* [0-15 PSIG] are engineered to provide accurate (± 2% of full scale) readings for high and low fuel pressure applications.

Nitrous & Fuel Pressure Gauges



NOS Technical Support
Toll-Free Phone: 1-866-GOHOLLEY

Phone: 1-270-781-9741

Fax: 1-270-781-9772

For online help, please check the Tech Service section of our website: www.holley.com

For refill information: 1-800-99-REFILL (1-800-997-3345)

199R10328 Date: 8-3-04