

# *Wizards* of **NOS**

## **Nitrous Purge & Co2 Purge "Effect" Kits**

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### **Owner's Manual**



**U.K. 44 (0) 01302 834343**  
**[www.noswizard.com](http://www.noswizard.com) • [www.wizardsofnos.com](http://www.wizardsofnos.com)**

# Introduction

This manual will cover the install instructions and details of your **nitrous purge** or **Co2 purge effect** kit.

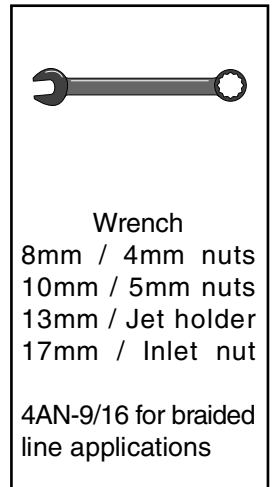
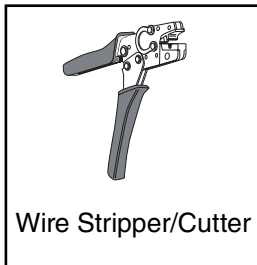
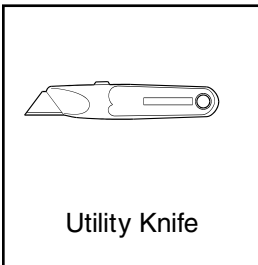
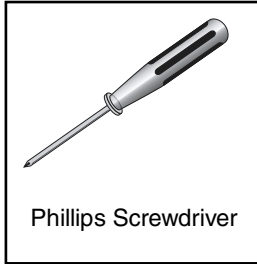
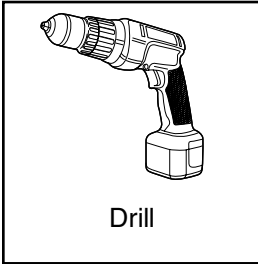
A nitrous oxide purge system can increase performance by releasing the gaseous nitrous and filling the line with liquid nitrous where there is greater density to burn more fuel and therefore make more power.

A Co2 purge effect kit can replicate the visual effect of a nitrous purge for show use only and at a fraction of the cost to refill.

Supplied with your purge should be the appropriate parts to connect to any brand of nitrous system. Please read the manual carefully to make sure you were provided the correct parts for your application and to understand the system properly. **Please contact your dealer or Highpower direct if you have any questions.**

**Note:** A complete Highpower nitrous oxide system is recommended for optimal performance and reliability along with your Highpower purge kit.

## Tools Required



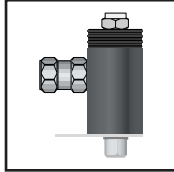
**Note:** The next few pages will explain and show how to properly install your "nitrous purge" or "Co2 purge effect" kit. The nitrous purge solenoid diagrams will also apply to proper set-up of your Co2 purge effect kit. Please make sure that the parts checked below apply to the kit for your application and never substitute any of the parts for parts of inferior quality.

**Braided kit**



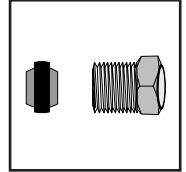
- 5lb bottle
- 10lb bottle
- 11lb bottle
- 15lb bottle

**Nylon kit**

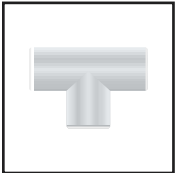


- Solenoid w/ 5mm female inlet
- Solenoid w/ 4AN (7/16) male inlet
- Blue / Polished

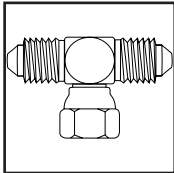
**Co2 kit**



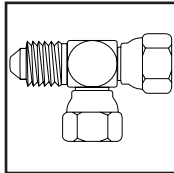
- 7 x 4mm nuts/olives
- 3 x 5mm nuts/olives



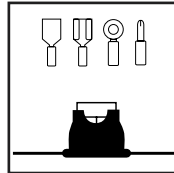
- 1 x 4mm 'T'
- 1 x 5mm 'T'



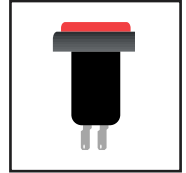
- 4AN (7/16") 3 way adapter male/male/female



- 4AN (7/16") 3 way adapter male/female/female



- Wiring 10ft-5ft
- Connectors
- Fuse holder
- 20 amp fuse



- Momentary switch (15 amp)



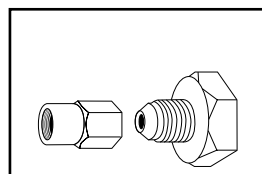
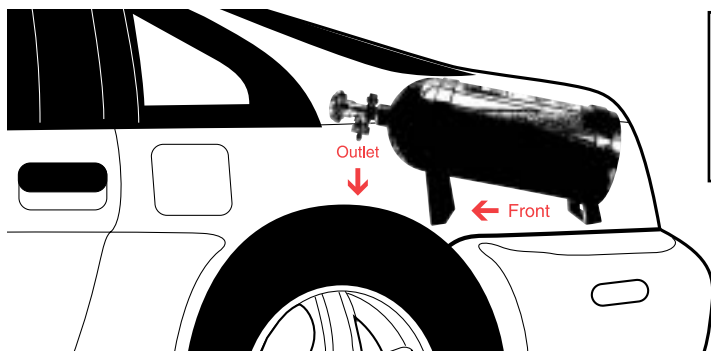
- Sticker

**! WARNING**

Failure to follow advice can result in poor results, injury, or engine damage.

# Co2 Cylinder Installation and Mounting

The cylinder must be mounted exactly as shown (Fig. 3). In this position **liquid** Co2 will be delivered, which is essential for the effect to work properly. If you can't mount the cylinder exactly as shown, phone for advice. The brackets supplied will provide secure mounting with quick release for ease of refilling. Position the bottle brackets to ensure that the valve end of the bottle is **higher** than the base end, with the outlet pipe connection pointing towards the floor (no other way). If you are unable to mount the bottle as shown and explained, **please contact us for advice.**

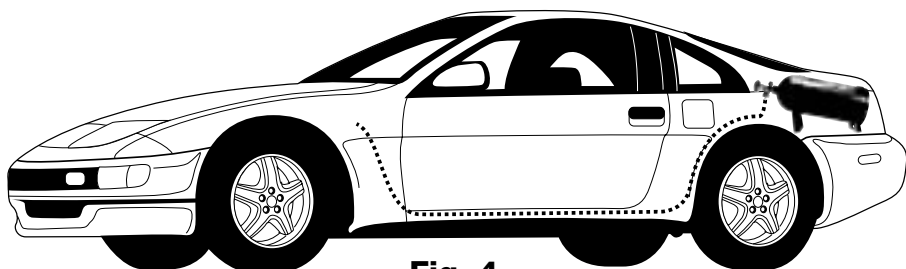


Bottle nut adapter for U.S. valve applications using our nylon pipe.

**Fig. 3**

## Supply Line Routing

**A) Nylon Line:** **Do not** kink the nylon pipe by bending it too tightly, as this will weaken the pipe and result in a burst when the pipe is filled with high pressure gas. **Do not** allow the nylon supply line to make contact with **hot** objects, as this will weaken the pipe and result in it bursting when under very high pressure. **Always** protect the nylon supply line from heat in the engine bay or other areas of extreme heat. **(B). SS Braided Line:** If you have chosen the optional braided line then be sure to route in as cool as possible exterior location. You will most likely have to drill a hole in your boot(trunk), truck bed, or hatchback area floor to pull the line through to underneath the vehicle and run up to the engine bay. If you are unable for any reason to route the pipe as shown and explained, **please contact us for advice.**



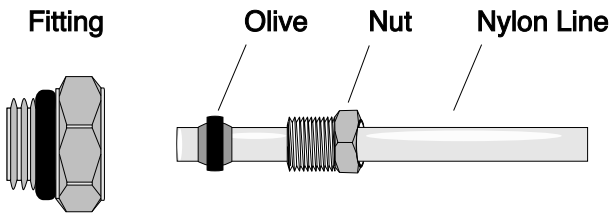
**Fig. 4**

# Nylon & Braided Line Installation

Cut the pipe to length using a sharp utility knife (**Do not** use wire snips, pliers etc. as these will deform the pipe end and make it almost impossible to fit the nut and olive). Slide the nut and olive into the pipe ends as shown below. Insert the pipe ends into the fittings, then slide the nut and olive into the fitting. Tighten the nut to retain and seal the pipe (but without excessive force) as this will crush (neck) the pipe and restrict the flow. Make sure to hold the nylon pipe securely, so it doesn't back out while tightening the nut.

To check that the pipe is totally sealed, briefly turn on the cylinder valve and inspect for leaks with soapy water at the connections. If a leak is detected, tighten up the nut (whilst avoiding contact with any escaping gas particles) until the leak is stopped. When you are satisfied that the system is leak proof, release the pressure in the system.

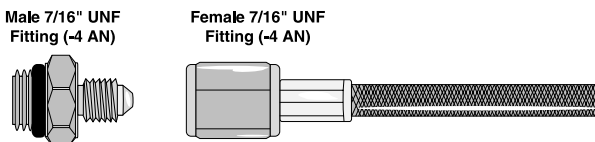
**IMPORTANT: When tightening the fittings to secure pipes, we strongly advise the use of the correct size spanners otherwise damage may occur and the fittings can fail to do their job.**



**Fig. 1**

## Braided Line Applications

**NOTE: This fitting does not require sealant on threads. Use an -AN wrench or equivalent wrench of proper size, so fitting end does not get damaged.**



**Fig. 2**

# Braided Line Kit Instructions & Tips

**Please follow the directions provided for a safe and reliable purge system.** The diagram below will give a guideline on how to set-up the purge kit with your nitrous system.

Use the provided 4AN (7/16) "T" fitting on the **inlet** side of the solenoid positioned so the 3rd leg attaches to the purge solenoid (Fig. 5) as a bypass and a straight path to the main nitrous solenoid remains.

**1)** Male/Female/Female adapter can be used to piggyback the purge solenoid off the main N2O solenoid.

**2)** Male/Male/Female adapter for application's where a purge is used for multiple N2O solenoids that split off after or to remote mount instead of a piggyback set-up explained above.

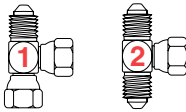
Use the 4mm **(blue)** nylon line provided on the **outlet** part of the solenoid to route where you want the nitrous to purge (spray). **Do not** replace with an inferior grade of nylon. There is a 4mm "T" fitting provided for a dual spray effect if wanted and shown in the diagram below. Refer to (Fig.) for nylon line installation.

**Important:** Secure the end pipes of the 4mm **(blue)** lines as high pressure is present and can whip the lines causing damage.

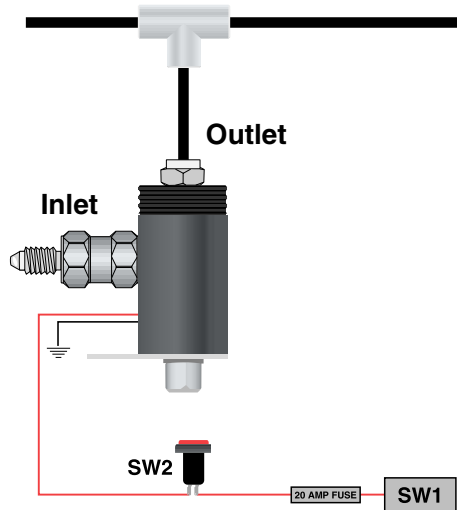
**Note:** Mount the purge solenoid as close as possible to the main nitrous solenoid to ensure as full a purge as possible.

**Fig. 5**

Main Feed Line



To N2O Solenoid



## **WARNING**

Never use a low amp switch if replaced unless adding a relay. Kit standard is a 10-20 amp switch.

SW1 Ignition Switch (+12 volts)  
SW2 Momentary Switch  
≡ Ground

# Nylon Line Kit Instructions & Tips

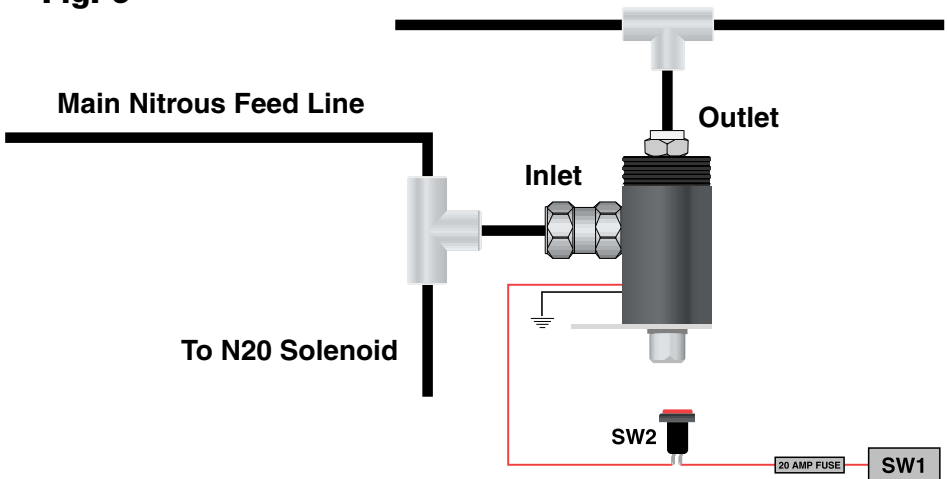
**Please follow the directions provided for a safe and reliable purge or Co2 system.** Fig. 6 will give a guideline on how to set-up the kit with your nitrous system.

**Note:** Highpower kits supplied with the 5mm (blue) nitrous supply line do not require a purge for optimal performance, but a purge can be added for a visual effect.

Use the provided 5mm "T" fitting on the **inlet** side of the solenoid positioned so the 3rd leg attaches to the purge solenoid (Fig. 6) as a bypass and a straight path to the main nitrous solenoid remains.

Use the 4mm (**blue**) nylon line provided on the **outlet** part of the solenoid to route where you want the nitrous to purge (spray). **Do not** replace with an inferior grade of nylon. There is a 4mm "T" fitting provided for a dual spray effect if wanted and shown in the diagram below. **Important:** Secure the end pipes of the 4mm (**blue**) lines as high pressure is present and can whip the lines causing damage.

**Fig. 6**



## **WARNING**

Never use a low amp switch if replaced unless adding a relay. Kit standard is a 10-20 amp switch.

SW1	Ignition Switch (+12 volts)
SW2	Momentary Switch
	Ground

# **Lifetime Warranty**

Highpower products are covered by a Lifetime warranty against any defects for the lifetime of the original purchaser. This warranty does not cover any damage done by modifying or tampering of the original product outside of a Highpower representative. If any part becomes faulty, please contact a Highpower office with proof of purchase for an exchange or warranty coverage.

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