

## "Wizards of NOS pressure switch regulated Cylinder Heater System"

### System Contents :

- 1 - Heater Blanket 5lb/11lb (1)
- 2 - Pressure Switch (1)
- 3 - Male Plug (2)
- 4 - Arming Switch (1)
- 5 - Wiring Pack (1)
- 6 - Relay & Socket (1)
- 7 - Nitrous Tee (1)

### Useful Tools :

- Wire Cutters/Strippers
- Connector Crimping Tool
- Electrical Testmeter/Lamp
- Drill & Various Bits
- Soldering Iron & Solder ( Optional )
- Threadlocker/Sealant
- Screw/Torx/Allan Drivers

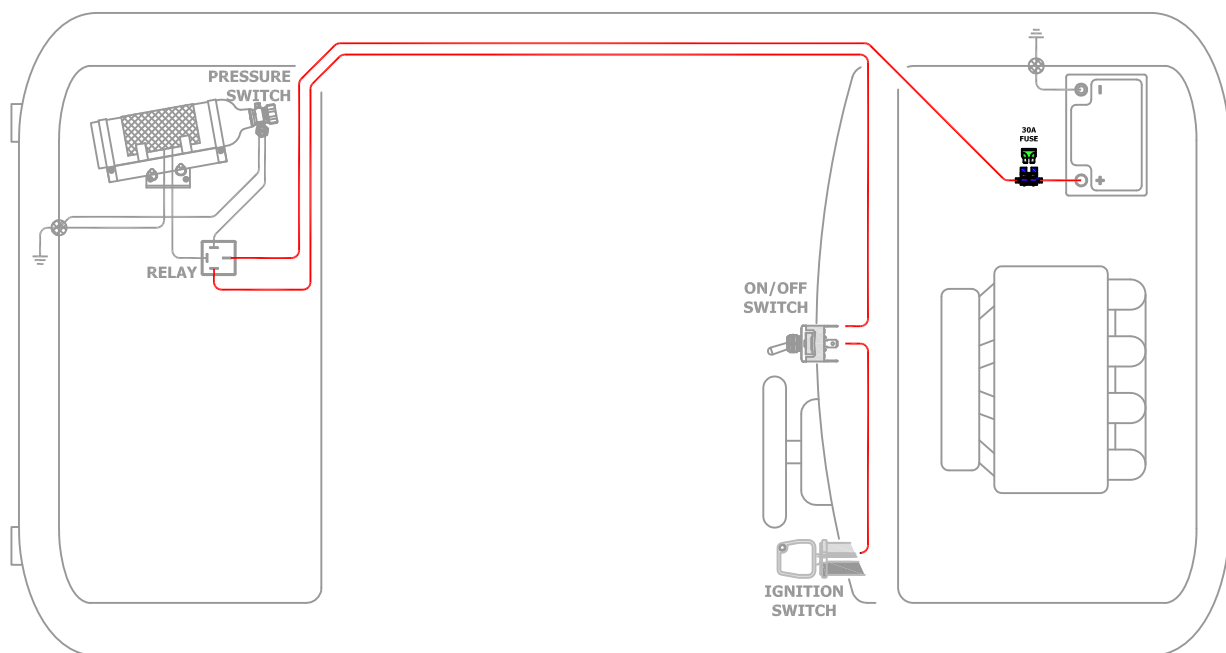
### How a heater system works:

To achieve the optimum from any nitrous system a constant pressure of 950psi should be maintained throughout its use. The heater you have purchased moves your system towards this goal by heating the cylinder. This will raise the internal pressure until the pressure switch senses optimum and turns it off. The use of this system will eliminate the need for winter and summer jet settings. It will also allow safer use of optimum jet settings and produce more repeatable performance on your vehicle.

### Fitting Instructions

Fig. 1

Diagram based on typical installations of popular vehicles.



**Wiring:** Using the supplied electrical connectors, connect the large gauge red wire to the positive terminal on the battery. Connect the remaining large gauge black wire from the heater plug direct to ground along with the small gauge black wire from the pressure switch. Connect the small gauge red wire from the relay socket to ignition live through the provided switch.

**Mounting:** Strap the heater directly to the bottle avoiding any obstructions. Be sure the heater blanket makes full contact with the bottle. Mount the relay in a suitable location near the bottle away from any vibration. Screw the pressure switch into the supplied T piece (using a thread sealant if available) and connect this inline with the nitrous supply line. If for any reason your configuration is different, please contact us for assistance.

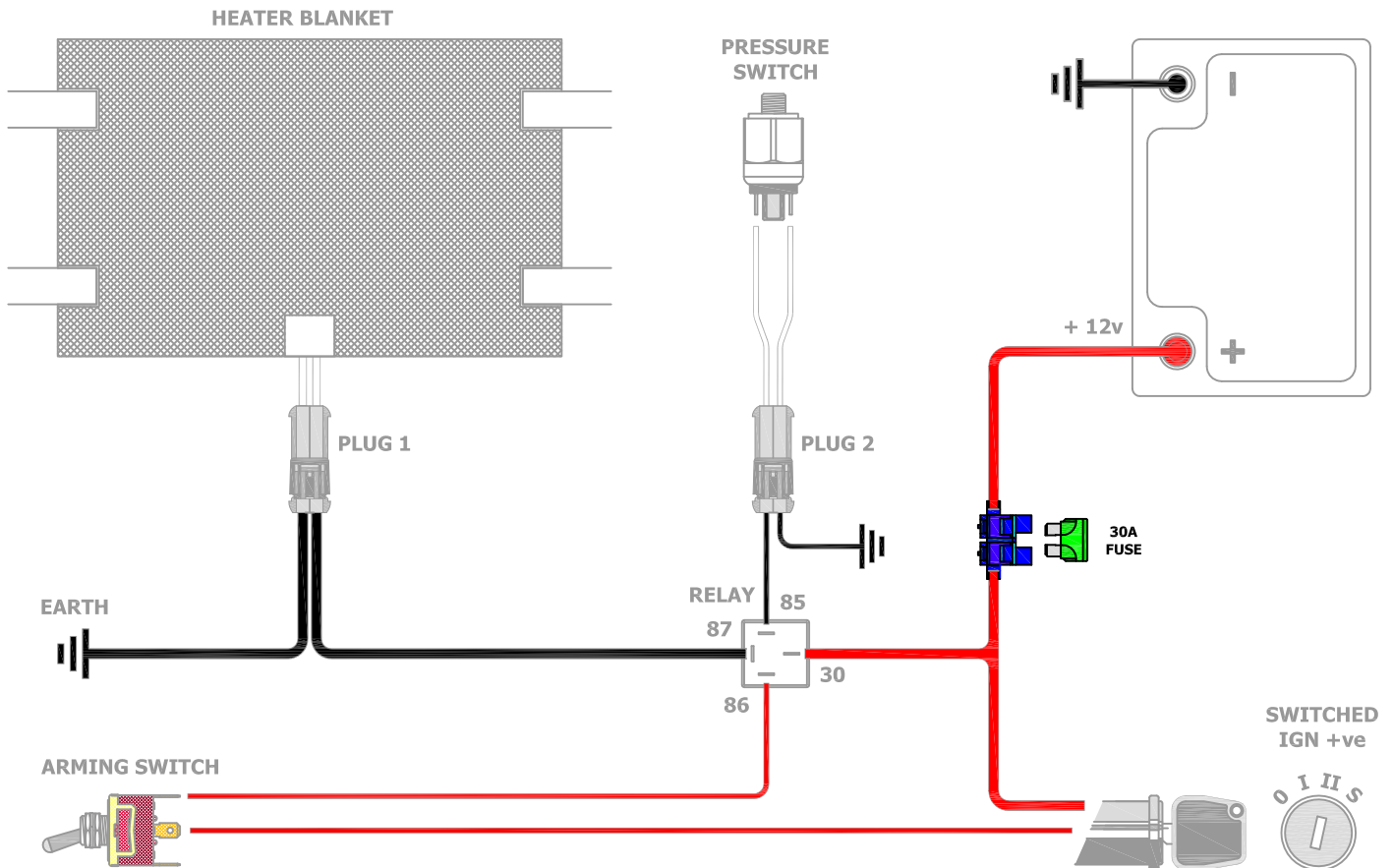
**Checks:**

- With the ignition OFF check the heater switch does NOT operate the heater.  
(with the heater attached properly to the cylinder check to see if it warms)
- With the ignition ON the heater switch DOES operate the heater.
- When the pressure reaches the set pressure (usually 950 psi) the heater switches off.

## Heater Wiring Diagram

Fig. 2

For connection to a Nitrous controller refer to controller wiring diagrams.



## How to use your System:

To start the system you must first have your vehicle ignition on and the heater main switch activated. Once this is done there are no other inputs or switching needed. For best results the cylinder has to be fully soaked with heat. To do this start with a cylinder at room temperature and leave the system activated for a 30-45 minute warm-up period. This will minimise pressure drop using nitrous and speed up the pressure recovery between uses. If a gauge has been fitted, it is recommended to check the cylinder pressure before using the nitrous system. This will ensure you are aware the heater system is working correctly and that you are safe to proceed using nitrous. If required the pressure can be altered by adjusting the screw in the pressure switch. Anti-clockwise will reduce the pressure of the system.

**! WARNINGS !** ( Must read before using your system. )

- Ensure the correct gauge wire is used as per the instructions. Inadequate wire may cause FIRE.
- ONLY operate the heater if the cylinder is open to the system, failure to do so will result in elevated pressure up to potentially dangerous levels. ( Does not apply when using a designated pressure port with permanent pressure supply for the switch ).
- Before using your nitrous system you MUST change your fuel metering jet or consult your local Wizards of NOS agent for advice. ENGINE DAMAGE may result if instructions are NOT followed.
- If the cylinder pressure exceeds 1000psi DO NOT use your system until the system is checked.
- Be aware that this heater draws 20A and will quickly drain a battery if the vehicle is not running.
- Do NOT operate the heater while not installed on the cylinder. Damage to the element may occur.

## Specifications:

- 12v - 225 Watt Heater Element
- Max Average Current 20A
- 500 - 1200psi Operating Range
- 50psi Operating Window @ 950psi
- Sealed Connection Plugs
- 40A Max Current Relay