

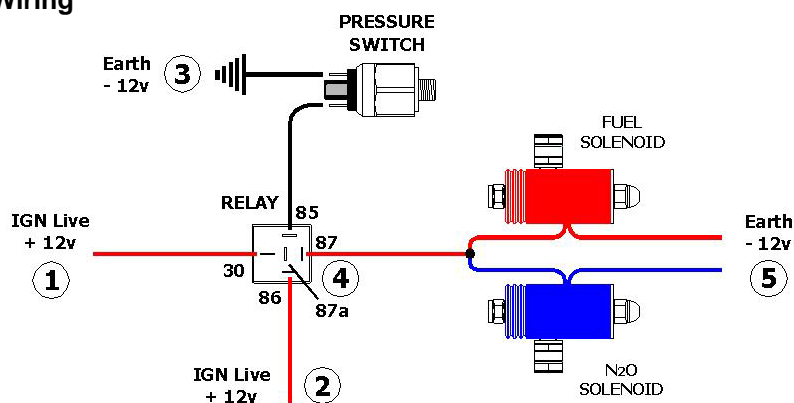
## Safety Cut-off System

(Fuel Pressure Operated for use with a Normally Closed or Normally Open Pressure Switch)

The fuel dependant nitrous cut-off system will provide you with the peace of mind that in the event of excessive fuel pressure drop your Nitrous system will be switched off to prevent potential engine damage. This system covers for all eventualities of pressure drop as follows:

1. Insufficient pump flow on mid-high doses.
2. Insufficient feed pipe for mid-high doses.
3. Incorrect fuel take off fitment i.e. Fitment to Return Line
4. Blocked/Restricted Fuel filter or pipework.

### Wiring



### Parts List

- 1 x Fuel Pressure Switch (N/C or N/O)
- 1 x Fuel Adapter(s)
- 1 x Relay
- 1 x Selection of Crimp Connectors
- 1 x Length of Wire
- 1 x Pack of Cable Ties

### Useful Tools:

- Wire Strippers
- Wire Crimpers
- Soldering Iron (Optional)
- 22mm Spanner (Pressure Switch)
- Assorted Spanners
- Small Flat Blade Screwdriver
- Thread Sealing Compound (Not PTFE Tape)

1. **Ignition Live (Solenoids)** - This is the existing +12v supply wire to the solenoids from the Arming switch or power relay (If Fitted). Fit the relay provided in-line with the +12v side to pin 30 and the Solenoid input to Pin 87.
2. **Ignition Live (Relay)** - This is an ignition only activated +12v that will feed the pressure switch through the relay. This feed is the same type as the +12v supplied to the Solenoids (Wire No. 1) and is connected to pin 86. This can have a separate wire or can share the No.1 wire feed.
3. **Earth (Pressure Switch)** - This is the earth for the pressure switch. Connect to either terminal on the switch and to either a bare chassis point or to the negative on the battery. Connect the remaining terminal to pin 85 of the relay.
4. **Power to Solenoids** – If using a normally open pressure switch connect the Solenoid power wires to pin 87. If using a normally closed switch connect to pin 87A.
5. **Earth (Solenoids)** - This is the existing wiring for the earth of the Solenoids. This wire typically goes to the Activation Microswitch or to a Progressive Controller. Do not use these wires to connect the cut-off relay.

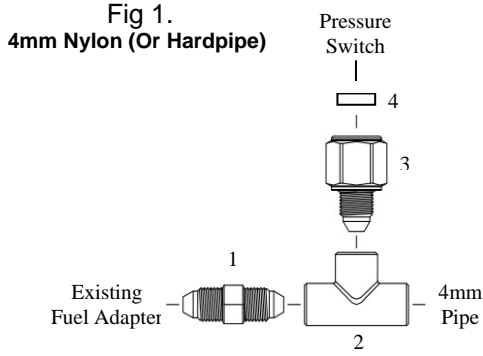
### Pressure Switch Installation

To install the pressure switch in most cases an adapter will be required. This adapter will vary depending on the type of fuel system on the vehicle or on the nitrous system. The following are examples of pipework that are commonly used with the appropriate diagram reference for the adapters.

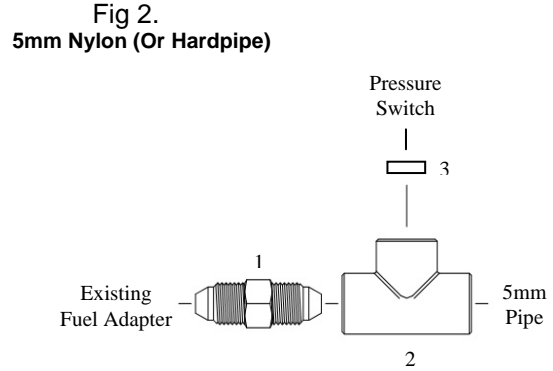
- |   |        |
|---|--------|
| 1. 4mm Nylon (Or Hardpipe) .....                          | Fig. 1 |
| 2. 5mm Nylon (Or Hardpipe) .....                          | Fig. 2 |
| 3. UK 3' Braided (1/8 <sup>th</sup> BSP Connection) ..... | Fig. 3 |
| 4. 4AN Braided .....                                      | Fig. 4 |
| 5. 6AN Braided .....                                      | Fig. 5 |
| 6. 6 – 8mm Bore Rubber Tubing .....                       | Fig. 6 |
| 7. Direct .....   | Fig. 7 |

If your application is not shown above please contact your nearest WON agent for more information.

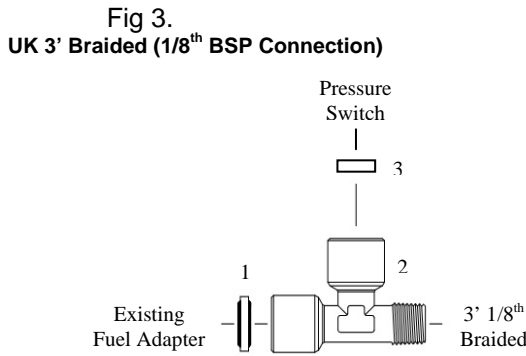
**Adapters:**



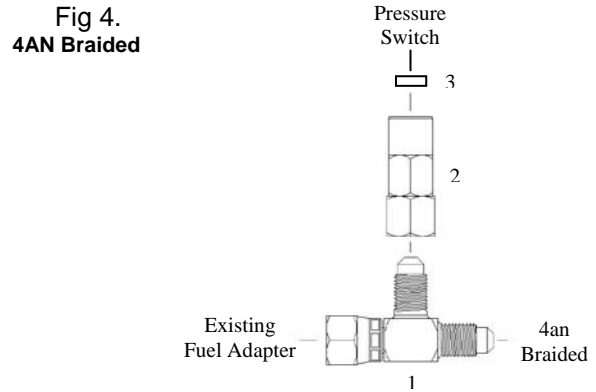
- Supplied Adapters:**
1. Pt No. 1040 - 4mm straight m/m (x1)
  2. Pt No. 1050 - 4mm – 1/8 m/f (x1)
  3. Pt No. 1010 - 4mm Tee f/f/f (x1)
  4. Pt No. 1136 - Sealing Washer (x1)



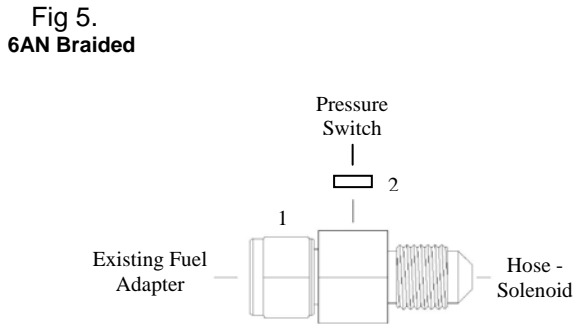
- Supplied Adapters:**
1. Pt No. 1042 - 5mm straight m/m (x1)
  2. Pt No. 1013 - 5mm Tee f/f/f (x1)
  3. Pt No. 1136 - Sealing Washer (x1)



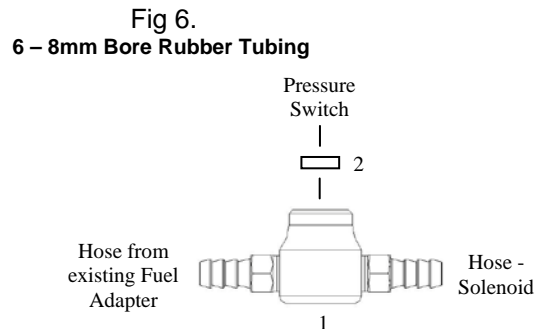
- Supplied Adapters:**
1. Pt No. 1139 - 1/8th Bonded Dowty Seal (x1)
  2. Pt No. 1027 - 1/8th Tee f/f/m (x1)
  3. Pt No. 1136 - Sealing Washer (x1)



- Supplied Adapters:**
1. Pt No. 1084 - 4an Tee f/f/m (x1)
  2. Pt No. 1007 - 4an to 5mm f/f (x1)
  3. Pt No. 1136 - Sealing Washer (x1)

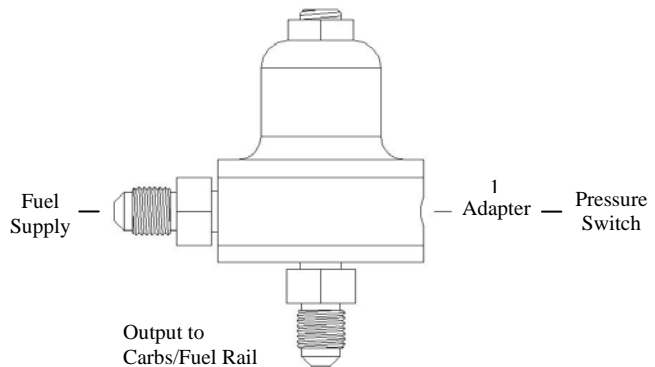


- Supplied Adapters:**
1. Pt No. GR/FP192 - 9/16<sup>th</sup> Tee 1/8<sup>th</sup> Port (x1)
  2. Pt No. 1136 - Sealing Washer (x1)



- Supplied Adapters:**
1. Pt No. 1002 - 1/8<sup>th</sup> Fuel Tee (Med Barb) f/f/f (x1)
  2. Pt No. 1136 - Sealing Washer (x1)

**Fig 7.**  
**Direct**



- Supplied Adapters:**
1. N/A - 1/8<sup>th</sup> to Fuel Port (Dependant on Application)

Note: Typical types of Direct applications could include connection direct to a spare regulator port or to a fuel rail test port etc.

## Setting Up & Testing

The pressure switch provided is adjustable to cover the range of fuel pressures most vehicles use. The switch will therefore require adjustment to suit your vehicle. There are two methods to setup the pressure switch, for accuracy we advise having this setup by an authorised agent or competent garage by use of the Gauge method. For those who do not have access to a professional fitter there is the manual trial and error method, both methods are listed below.

### ***Setting the Switch pressure Manually (if not set from factory)***

Disconnect the outlets of the solenoids, make sure the fuel outlet is suitably contained into a bottle or rag as these will be activated. Two people may be required to complete this setup, one to adjust the pressure switch and another to activate the system. With the engine running attempt to activate the system (manually, not by using full throttle, for TPS units please see your instructions on how to activate).

If the system activates,

- Let go of the activation switch. Adjust the pressure switch by turning the screw between the terminals clockwise a small amount and attempt activation again. Eventually the system will not activate, when this happens this should have set the pressure switch to static fuel pressure.

If the system does not activate,

- Let go of the activation switch. Adjust the pressure switch by turning the screw between the terminals anti-clockwise a small amount and attempt activation again. Eventually the system will activate, when this happens this should have set the pressure switch to static fuel pressure.

Now adjust the switch by turning the screw 180 Degrees Anti-Clockwise and try again. If the system still does not activate rotate another 180 Degrees until the system activates. Set-up is now complete.

If any more information is required please contact us or your nearest WON agent for more support.