

# REFERENCE MATERIALS

**Bottle Pressure Basics** - Now that you have your system it's time to make it complete. Most systems use a 10lb nitrous bottle and are typically mounted in the trunk space. To have this operate properly the pressure needs to be at 900-950psi with the pro systems running upwards of 1,000+ psi. The nitrous pressure has a direct relationship with the temperature, for example the bottle at 80 degrees Fahrenheit will be too low at about 865psi while 97 degrees will raise the pressure to 1070psi and be too high to allow the N<sup>2</sup>O solenoid valve open properly.

To get to that 90-92degrees and hit your target 900-950psi sweet spot you will need a good bottle gauge and some method of temperature control. In the summer you need a cool shade or ice pack and for winter months you need a good bottle heater system, preferably pressure controlled to come on/off at your selected pressure.

There are also some advanced regulator systems that manage the pressure variable with the aid of nitrogen. Whatever methods you choose always keep the N<sup>2</sup>O pressure consistent and you will have great results. If the bottle must be mounted within the passenger compartment you will need to add a "Blow Down" system to vent nitrous outside the car in the event of mandatory safety blow off due to over pressurization of the bottle.

Temp - vs - Pressure	
Degrees Fahrenheit	Bottle Pressure (PSI)
-30°	167
-20°	203
-10°	240
0°	283
10°	335
20°	387
32°	460
40°	520
50°	590
60°	675
70°	760
80°	865
92°	950
97°	1070
109°	1150
115°	1255