



BoonDocker Nitrous System Installation Instructions Manometer Instructions

-Introduction

The manometer is used to read the amount of pressure the nitrous manifold is producing. This is measured in inches of water pressure, in a water column. This is a very useful tool in setting up and tuning your nitrous system. Each manifold built will produce a slightly different pressure, also when changing nozzles it will cause the manifold to produce higher or lower pressure dependent on how many holes being sprayed and the position of the nozzle in the nitrous manifold. Rotating the nozzle slightly will cause it to build a different amount of pressure. That being said, the use of a manometer when setting up our system will allow you to know what pressure you are running with a given amount of nitrous being sprayed to give you consistent results.

Hooking up the manometer

In order for the manometer to work properly the system needs to be completely installed, with all vent lines and orifice cup plugs installed, if applicable. Once the system is installed you simply need to tee in the manometer to the system. It is important that you leave the system intact, if you remove part of the system to install the manifold you will not get an accurate reading.

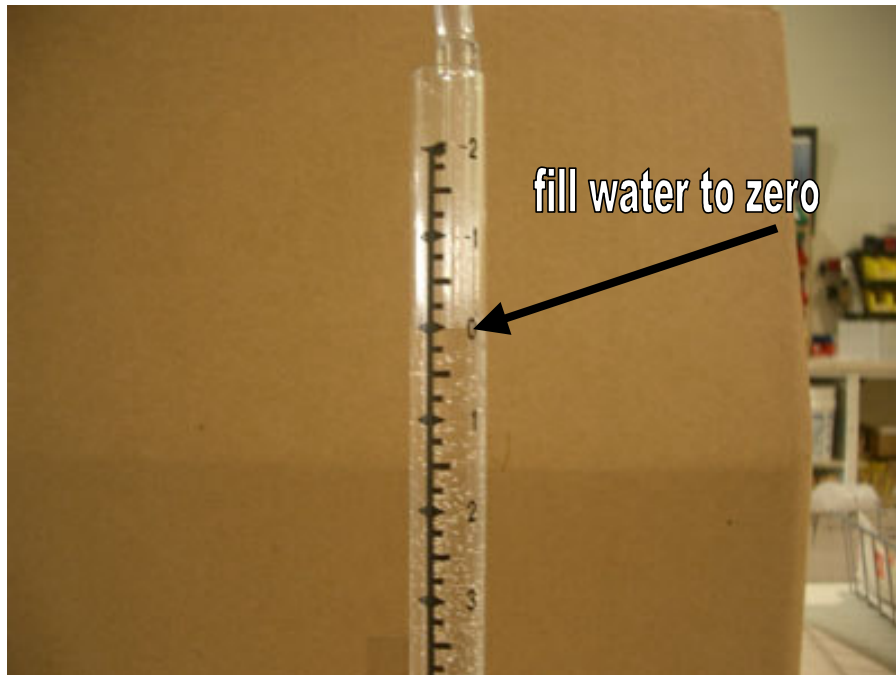
To install the manometer, you will need to install a tee fitting at the end of the manometer line. Then install a short piece of hose to one side of the tee. Then you can remove a pressure line from the manifold, hook the line from the tee on the manometer to the manifold and hook the line removed from the manifold to the open side of the tee on the manometer. Or if you have installed a tee in the line between the manifold and the vent line on the carb you can unhook the line from the tee and install the same way.

Calibrating a water manometer

Calibrating a analog manometer

Fill your manometer with water until the water reaches the zero mark on the index guide.

Note: *if the water level is higher or lower your reading will be affected.* With your manometer filled to the correct line. You can check operation by simply applying pressure to the hose. Blow in the hose and watch the water level change. As you apply pressure, watch the inside tube. The pressure will force the water down. You can read the amount of pressure by corresponding the water level in the small tube to the number on the side of the outer tube. This will give you the amount of water pressure, in inches of water, in the water column.

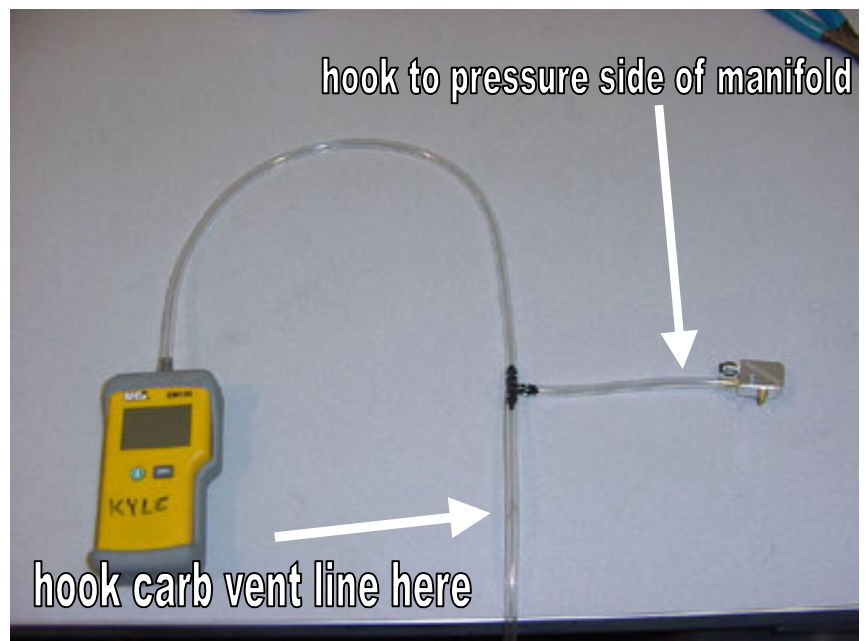
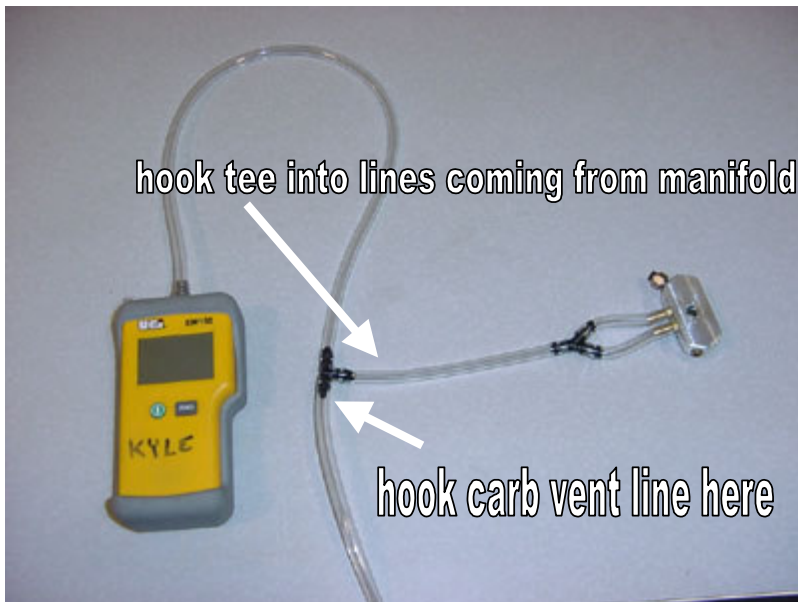
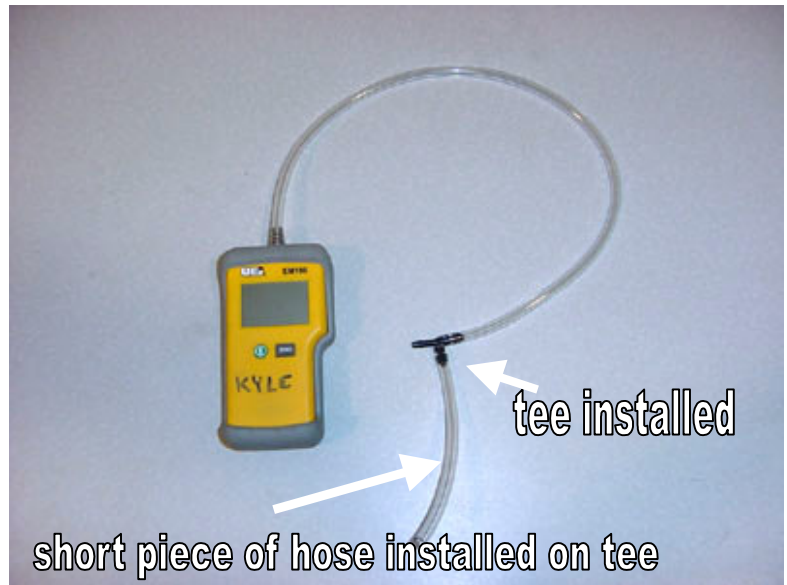


Calibrating a digital manometer

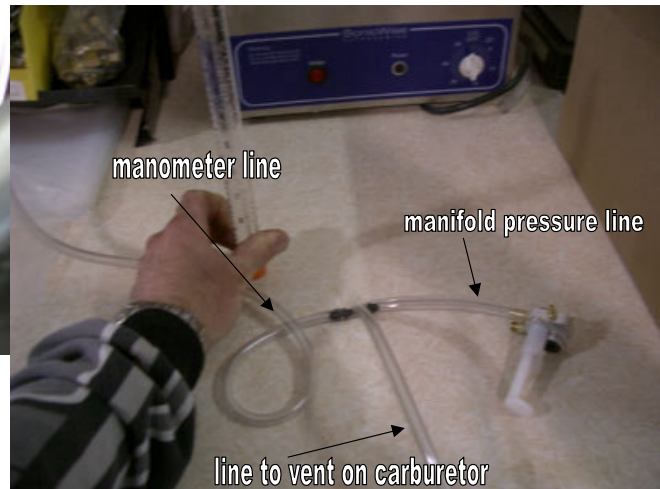
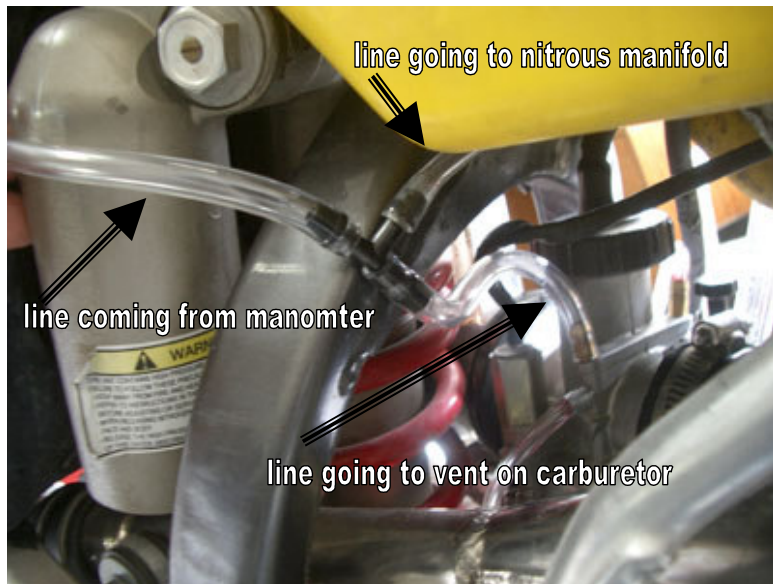
When calibrating our digital manometer all you need to do is hold in the zero button until you get eights across the screen and that will zero out your manometer and you are ready to start testing.

Push the nitrous button for one to two seconds. Watch how the water level in the small tube is affected. The pressure from the nitrous manifold will affect the water levels in the tube. It is important to take your reading from the inside tube. As you will notice the water level will drop in the small tube and correspond with the numbers on the ruler with the amount of inches of water pressure being applied.

Pictures here represent hooking up a digital manometer.



Pictures here represent hooking up a analog manometer



Two carbs, two manifolds

Connect manifold vents together/ Connect manometer here when checking pressure to insure accurate reading

