# What You Need to Know Before Purchasing

## I. Is Compressed Air Supercharging the right Power Adder for My Application

It is important to understand that Compressed Air Supercharging has been created for drag racing applications only. CAS systems are not intended for usage on street vehicles.

The components in the Air Storage Module operate at a maximum pressure of 3300 psig, the standard pressure at which scuba equipment operates. When properly installed and cared for the hose(s) and components in this module are engineered to provide safe and robust service lives.

> *Warning:* Improper installation and/or damaged components can lead to catastrophic failure, resulting in injury or death. It is imperative that CAS installation instructions are closely adhered to and that damaged components are replaced immediately.

## II. Tuning Requirements

CAS Boost Controllers (BCU) are partially programmed at the factory with generic settings for some key parameters (see System Tuning document for details). Vehicle specific settings will need to be programmed by a tuner prior to operation. Subsequently data will need to be downloaded from the BCU after each pass, analyzed and programming changes made in order to attain optimized performance. This is an iterative process. A sharp tuner or one with experience on similar vehicle combinations can usually arrive at an acceptable combination within about 5 – 10 partial passes. An individual with no experience and light on intuition can easily get confused. This is why we highly recommend working with an authorized CAS Dealer/Tuner.

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**Minimal Skill Requirements:** For an individual who desires to become proficient in tuning a CAS system the following are suggested as prerequisites:

1) PC proficiency including loading software and dealing with general MS Windows related issues or, close proximity to someone who is.

2) Experience programming aftermarket fuel injection system such as those offered by Edelbrock, EFI Technologies or similar.

3) Experience with data loggers and light data analysis techniques; properly tuning a system requires being able to look at time domain traces of manifold pressure actual, manifold pressure desired & motor position and determine changes in Boost Controller commands necessary to improve performance.