



The Performance Factory
4317 Triple Crown Drive
Concord, NC 28027
Tel: 704-784-3724 Fax: 704-786-6443
www.PerformanceFactory.US



The purpose of this sheet is to eliminate issues while tuning and to ensure a smooth tuning experience for yourself and your vehicle. Tuning is not fixing problems, it is calibrating the fuel and timing events for your vehicles modifications.

Appointments should be made by calling the shop and scheduling with the service writer or service manager.

A pre-dyno inspection by the shop is available which includes an inspect of the car and a boost leak check.

The dyno operator can deem a car unsafe for the dyno or unworthy of tuning upon arrival of appointment.

- ___ - Check engine oil level, proper oil, good oil pressure, and oil and filter are fresh
- ___ - Check Coolant level (be sure system has been bled/burped according to manufacturer specifications)
- ___ - Check Transmission fluid level, proper fluid, and that fluid is in good condition
- ___ - Check Transfer case fluid level
- ___ - Check front and rear drive axle fluid level
- ___ - Pressure check cooling system for leaks
- ___ - Check for oil leaks including all drive line fluids
- ___ - Check for any fuel leaks from the fuel tank to the fuel system. Be sure fuel system holds good fuel pressure.
- ___ - Check for clean air filter
- ___ - Check drive belts for tension and wear
- ___ - Check for proper cooling fan, water pump, and thermostat operation
- ___ - Check tires for problems, be sure all wheel drive vehicles have same diameter tires on front and rear axles
 - front wheel drive vehicles have same diameter tires on front axle
 - rear wheel drive vehicles have same diameter tires on rear axle
- ___ - Check tire pressures
- ___ - Check lug nut torque
- ___ - It's best to have alignment somewhat close to limit tire wear on dyno
- ___ - Drag slicks may be used but dyno rolls are very hard on drag slicks, street tires are recommended
- ___ - Check for any clutch or transmission issues
- ___ - On boosted vehicles check for boost leaks and be sure all vacuum/boost hoses are secured with zip-ties, clamps, or tie wire

- ___ - On boosted vehicles be sure all boost controlling devices (including wastegates, blow-off valves and boost controllers) are installed properly, properly set up, and in good working condition. Boost controllers should be set to wastegate boost (OFF on most electronic controllers) for vehicles being tuned.
- ___ - On naturally aspirated vehicles check closely for any vacuum leaks
- ___ - Be sure throttle plate is getting fully open when accelerator pedal is fully depressed and fully closed (against stop or throttle speed screw)
- ___ - Be sure engine is in good running condition a compression test and leak down test are a good idea. This includes turbo/supercharger issues such as oil leakage, wheel or shaft damage, shaft play, etc.
- ___ - Be sure mechanical timing of engine (crank/cam marks) are properly timed and timing components such as the timing belt/chain and pulleys are in good operating condition
- ___ - Be sure vehicle has fresh fuel of the proper octane rating for application. Full tank is recommended.
- ___ - Check for exhaust leaks
- ___ - Make sure you have proper fuel pump, injectors and regulator for your power goals (Contact tuner for recommendations)
- ___ - Set base fuel pressure and check for proper fuel pressure regulator installation and operation.
- ___ - Check base ignition timing
- ___ - Be sure alternator is charging and battery, starter, and wiring are in good operating condition
- ___ - Be sure ignition system is in good operating condition and is proper ignition system for power levels
- ___ - Be sure spark plugs are proper heat range and gap for application (call tuner for recommended plug range and gap)
- ___ - Be sure any external injection kit (meth injection, nitrous, etc.) is filled, bled, and in good operating condition
- ___ - Be sure any wiring, hoses, intercooler piping, and anything else that needs to stay away from heat is routed away from exhaust system
- ___ - Be sure there are no sensor or control unit malfunctions, also be sure all solenoids/valves are in good operating condition. This includes any codes (check engine light illuminated) vehicle may have.
- ___ - Make sure to notify the shop about a CEL that may be on prior to your appointment.
- ___ - If a base map is needed call the tuner and they will provide you with one