



PRE-DYNO & TUNE CHECKLIST

The dynamometer is the final quality test before a vehicle is put into service or on the track; it is NOT the time to fix problems with your car. We hope that by providing you with this checklist prior to your dyno appointment, both timely and costly delays can be avoided for you and for us. If you have any questions or concerns, please contact us directly.

General

- Arrive On Time
- Wheel Lock Key
- Bodywork/ride height clear of dyno
- Bring electronic devices / controllers – fuel, boost, timing controllers, AFM or MAF delete, piggyback systems
- Have required cable to connect to ECU

Mechanical

- Engine compression is good. *Engine is in good running order and does not make excessive noise*
- Fluids topped off.
- No leaks of any kind. *An hourly cleanup fee will be charged for any fluids leaked onto the Dyno*
- Oil is of good quality, is fresh and filled to proper level
- Intake manifold, intercooler, seals, and lines are sealed under vacuum and boost pressure
- Spark plugs are fresh, gapped appropriately, are of an appropriate heat range for your power goals
- Air filter is clean and properly oiled
- Coolant is bled, and radiator fans installed and working
- Turbo has no cracks or leaks
- Ignition system -*capable of supporting target power level*
- Boost controller installed and functioning as designed. *Let us know if you need tips on aftermarket EBCS*
- Boost solenoid installed properly and operational
- Make sure all bolts are tightened. *Loose components will cause tons of issues*

Electrical

- Vehicle grounds all connected properly. *Engine is grounded*
- The battery must be fresh and charged
- The alternator must be in strong working order and putting out the correct voltage
- Absolutely no exposed wires. All connections must be soldered or butt-connected
- CEL - check engine codes, must be fixed before your tune. *(Contact us if you are not sure)*



Fuel / Exhaust System

- Ensure the vehicle has at least ½ tank of the type of fuel you will be running.
- Fuel pressure regulator is installed and functioning correctly.
- Fuel pump in good working order and adequate for the power you wish to make
- Fuel injectors are good-quality, do not leak, and are adequate for the power you wish to make.
- Fuel filter clean and functioning properly.
- Boost leak test passed - **NO** boost leaks.
- Exhaust components fastened with high quality hardware, safety wired.
- Fuel and turbo filters cleaned & installed correctly.
- Fuel lines and hoses properly installed and free of leaks.
- Pre-Cat O2 sensor not seized.
- Ensure that your vehicle is not smoking excessively. *White smoke = car is burning coolant, Blue smoke = car is burning oil, Black smoke = car is running rich*

Driveline

- Transmission is working properly; fluids are clean and filled to the proper level.
- Differentials are working properly; fluids are clean and filled to the proper level.
- Brakes are working properly; fluid is clean and filled to proper level.
- Wheel bearings are in good condition.
- Clutch is able to handle the torque/power your car will make and is in good working order.
- Vehicle is properly aligned.
- Wheels are in good condition and balanced. Tires do not rub and are inflated to correct psi.

If you are not confident that your car is ready to be put on the dyno, you can schedule **Freedom Motorsportz** to inspect the car, and preform the accepted checks and inspections at our regular labor rate. **THIS DOES NOT GUARANTEE THAT THERE WILL BE NO PROBLEMS OR FAILURES ONCE YOUR CAR IS ON THE DYNO;** there are issues that might arise that we cannot reasonably see or anticipate through a brief inspection. Please keep in mind, your appointment is for dyno only, we may not have the time to fix certain issues on the day of an appointment depending on scheduling of that day. If you come to an appointment with a vehicle that is not working properly, we may not be able to complete your appointment.

Please initial below. Your initials serve as acknowledgment that you have read and understand the above checklist.

_____ I decline the inspection. My car is ready to be dyno tuned.

_____ My car will need to be inspected. I agree to the inspection costs at a rate of \$155/hr