

# ***Dynojet***

## **Dynamometer:**

A Dynamometer is essential to realizing the full potential of today's fuel injected and carbureted motorcycles with performance modifications. This is the only tool that can accurately calibrate fuel and ignition maps or diagnose run / drivability issues in a controlled environment. We have technicians that are trained to tune H-D Race Tuner, and Power Commander. Schaeffer's Harley-Davidson/Buell is a certified Dynojet® tuning center.

Equipped with real time O2 and Eddy current load control, our Dyno is a state of the art, computer controlled, Dynojet ® 250. By simulating the best road testing right in the shop, many drivability / run problems can be diagnosed in a fraction of the time.

We offer Dyno tuning by the hour to diagnose and correct fuel / ignition problems, optimize your motorcycles tune and measure the affects of changes or modifications. Dyno tuning can be considered one of the best investments you can make.

The cost to horsepower gain is routinely greater than any other modification and Dyno tune should be included in any performance package.

Most tuning can be done in two hours or less but varies based on the number of tuning variables and how the bike responds to tuning changes.

EFI bikes typically require 2- 2 1/2 hours for tuning. Typically a before / after tune graph is provided. We keep all runs on file for future reference.

A base line Dyno run will provide you torque, horsepower, rpm, and AFR (Air/Fuel Ratio) measurements at wide open throttle from a low rpm that allows clean acceleration to either redline or just after the horsepower curve arcs over. Several runs are made to insure normal operating temperature and stability. The graphs can be printed in many forms for comparison to others.

### **Race Tuner®:**



The Screaming Eagle® Race Tuner allows direct access to the ECU programs and their modification. We are, in affect, creating custom calibrations for specific combinations. The race tuner does include many Screaming Eagle® calibrations in the map files to select from. These can then be modified or a completely new file created if the combination does not match the calibrations part description.

Race tuner provides a much higher level of tuning than any other device without replacing the ECU itself. Each cylinders fuel and ignition mapping is independently tuned, using three dimensions, resulting in a custom map that eliminates the possibility of one cylinder fighting or holding back the other.

This equals more horsepower with smooth linear drivability. In addition, warm up enrichment, idle speeds, IAC (Idle Air Control) steps, rev limits, AFR (Air/Fuel Ratio) offsets, injector sizing can be changed. To help in tuning or diagnostics, Race Tuner, also features a data mode to collect and review sensor inputs or other data. These can only be tuned accurately by using a computer controlled load cell Dyno with real time AFR (Air/Fuel Ratio) monitoring.

For further information and pricing, please call the Service Department @ 570-366-0143.

