

## **RELATIVE AIR DENSITY GAUGE INSTRUCTIONS**

YOU HAVE PURCHASED ONE OF THE MOST IMPORTANT TOOLS FOR KEEPING YOUR ENGINE TUNED. THIS AIR DENSITY GAUGE IS DESIGNED TO BE USED WITH ALL 2 AND 4 STROKE ENGINES. THIS GAUGE HAS BEEN CALIBRATED TO THE NATIONAL S.A.E. STANDARDS OF :

1 CUBIC FOOT OF AIR AT 60 DEGREES F. WITH A BAROMETRIC PRESSURE OF 29.92 IS = TO 100% AIR DENSITY. THIS IS THE STANDARD WITH 0 VAPOR PRESSURE.

### **HOW TO USE YOUR R.A.D. GAUGE FOR MAXIMUM PERFORMANCE.**

THE MOST IMPORTANT PART OF USING YOUR AIR DENSITY GAUGE IS TO KNOW YOUR BASELINE. THIS BASE LINE IS PROBABLY BEST ESTABLISHED IN A DYNO-CELL OR AT A PRIVATE TEST SESSION. IF YOU CAN NOT BENEFIT FROM THE DYNO OR TEST SESSION, THEN IT IS ADVISABLE TO START WITH SLIGHTLY LARGER JETS AND THEN JET DOWN SLOWLY UNTIL YOU HAVE THE CORRECT PLUG READINGS OR EXHAUST TEMPERATURES. ONCE YOU HAVE ESTABLISHED YOUR BASELINE, USE OF THE R.A.D. GAUGE BECOMES EASE. IF YOU HAVE A 3% CHANGE IN AIR DENSITY, THE YOU NEED A 3% CHANGE IN JETTING. THE HIGHER THE AIR DENSITY, THE RICHER THE FUEL MIXTURE NEEDS TO BE.

#### **CAUTION:**

*SOME PEOPLE BELIEVE THAT HIGHER AIR DENSITY YIELDS SLOWER MOVING AIR AND SLOWER AIR REQUIRES LESS FUEL. THIS IS INCORRECT AND WILL CAUSE DAMAGE TO YOUR ENGINE.*

**TANNER RACING By Mittler Bros.  
121 East Mulberry Street Foristell, MO. 63348-0110  
Toll Free Hot Line (800)-558-4112**

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