

# E-RACING MOTORSPORTS

## BLOW AWAY YOUR COMPETITION WITH THE e-RAM™ ELECTRIC SUPERCHARGER



[www.electricsupercharger.com](http://www.electricsupercharger.com)



Located near Laguna Seca Raceway in Northern California, e-Racing Motorsports was founded in 1997 by two brothers. Mark drove a 1984 Porsche 928S, and Mike, a track prepared 1980 Fiat Spyder with fuel injection.

The avid club racers' professional lives positioned them with a combined 30 years of experience working with high-performance industrial electric motors. In an effort to increase horsepower on his Fiat, Mike spent nearly \$2,500 on engine modifications, but the dyno proved that his money and time had resulted in a gain of only 2 horsepower. Soon it became clear that the Fiat's horsepower would always be limited by the restriction caused by the small in-

take opening at the air-flow meter. Mike asked Mark to mount his recently completed electric jet engine directly to the Fiat intake, to blast air through the air-flow meter, increase intake pressure, to increase engine performance. From this moment in 1996, the wheels of invention turned.

Mark and Mike worked with several former NASA engineers, and within a year, completed the first prototype of the e-RAM™ Electric Supercharger. They wanted to see the results of their hard work, so they took the e-RAM™ to the dyno. By now, the Fiat was gone, replaced with a 1984 Porsche Carrera. As hoped, dyno test results showed a 10 HP increase at the wheels when mounting the e-RAM™ to the stock air-box of the Carrera. Tests on Mark's 928S and on a family member's Honda showed horsepower and torque gains similar in percentage to the Carrera. Product durability was a must, so they proceeded to put the e-RAM™ through its paces at the race-track. After countless hours of track time, and additional positive dyno runs, Mark and Mike decided they had a winning idea, and e-Racing Motorsports was born. The US Patent application was filed in 1998, and granted in December of 2001 (US Patent #6,328,024 B1).

The e-RAM™ is high-powered, electrically driven, axial-flow compressor. When activated automatically at Full-Throttle, it has been independently dyno proven to provide 4%–6% HP gains throughout an engine's entire RPM range. The e-RAM™ draws 833 WATTS directly from the battery and hits 25,300 RPM in 1/10th second to produce 1 PSI net boost on any engine up to 5.0L in size. This mild level of boost from the e-RAM™ is measured by the engine management sensors, and the car's computer (ECU) automatically adjusts fuel delivery and ignition timing for optimum performance. No other modifications are required. The e-RAM™ can be stacked to produce 1.7 PSI. The 4" diameter of the e-RAM™ assures that it never restricts air-flow, even when it is not energized.

As the aerodynamic, physical, and electro-mechanical requirements for producing it are difficult, electric boost, a seemingly simple concept, has only been produced by a few companies. Within that exclusive group are benefits and limitations for each approach.

"When developing our first e-RAM™, we melted every 'hobby' electric motor on the planet trying to generate enough power at very high RPM rates to produce usable boost at the lowest possible cost. The product needed to handle the extremes seen from road-racing events, and provide many years of maintenance-free operation. Ultimately, we had to develop and manufacture our own electric motor, purpose-built for this application." The latest e-RAM™ is a fine example of e-Racing's continued pursuit. "The e-RAM™ is a simple bolt-on, universal fit device that won't break the bank, doesn't require any other modifications, will add 5% horsepower on top of all other modifications, and only takes an average of 45 minutes to an hour to install with hand tools."

The 2006 model e-RAM™ incorporates many improvements and comes assembled, pre-wired, ready to install, including everything needed to mount on almost any intake system. The e-RAM™ is emissions legal in 42 US states, and CARB Exempt status is planned for a growing list of vehicles. Since 1997, e-Racing has backed up performance results from the e-RAM™ with a money-back performance guarantee. "We understand new technologies and ideas take time in any market to be accepted. From our experience and customer feedback, we are confident that soon, electric boost will become widely accepted by the public as a viable means of performance enhancement." e-Racing continues to develop improvements to the e-RAM™, keeping it positioned as one of the most cost-effective bolt-on horsepower additions available. Suggested retail price for the e-RAM™ is \$299.98. ●LEONA KRAHN

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