



PARTICIPANT BULLETIN

TO: SCCA Pro Racing Speed World Challenge Participants
FR: Shawn Passen; SCCA Pro Racing Technical Director / (614) 419 – 2851 / spassen@sccapro.com
DT: February 1, 2007
RE: WCPB # 1 – 2007: Series Supplied GPS-based Data System

Overview

For the beginning of 2007, the Speed World Challenge technical managers will start selecting multiple cars in each class to have a series owned GPS-based data system installed during on-track sessions. The purpose of this system is to allow the Technical Managers of each class to view the performance of all cars in one data analysis package. The data gathered from this system will be the primary source for competitive analysis of each class. This will eliminate the problems associated with trying to compare the on track performance of cars from data gather from on-board, team owned, data systems that are not all similar in hardware and software design.

Traqmate

The Traqmate system is a vehicle data acquisition device that uses a high-speed GPS receiver and high-resolution accelerometers to track and record the speed of a vehicle, its absolute location, and forces acting on the vehicle.

The Track Systems Traqview analysis program uses advanced mathematic algorithms to translate this data into a visual form that makes it is easy to spot differences between drivers, vehicles, and paths driven on the track during various sessions.

Why this system

Track Systems is a market innovator in GPS Data Acquisition and the creators of the Traqmate system. By utilizing the latest technology they are able to provide very reliable and accurate information in an easy to use format.

The GPS technology provides information not available in traditional data systems such as driving line analysis and multi-car playback. Because this system is GPS based, it will eliminate a lot of problems we have comparing cars in traditional data systems, which is mainly due to problems with wheel speed sensors and/or tire diameter fluctuations.

The sensor units that will be installed in the cars by the technical staff are compact and lightweight. The units measure 3" x 5" x 1" and weigh 8 oz. These units also carry their own power supply so they can be easily installed into the selected car within a matter of minutes. There is no need to tap into any of the cars wiring.

We tested multiple GPS-based systems last year and the Traqmate system gave the most dependable output while in low GPS signal conditions, such as going under bridges, etc. Additionally, Track Systems Technologies have demonstrated a desire to be a close technology partner. They will be providing some track side support for SCCA Pro Racing and are willing to work with SCCA to develop better analysis tools and will help train several members of our technical staff in the use and installation of the systems.

Team Requirements

Each team will purchase an installation kit that contains the following:

Sensor Unit (SU) mounting tray, GPS antenna (permanent or magnetic mount), industrial velcro with adhesive, and mounting hardware.



This kit is available online at the Track Systems Store <http://store.traqmate.com> as the *SCCA PRO RACING KIT*.

Track Systems offers two antennas, a magnetic mount temporary antenna and a through-the-roof permanent mount antenna. Both offer excellent performance. The kit pricing will vary depending on the antenna. The Magnetic Mount antenna kit will cost \$75.00 and the Permanent Mount antenna kit will cost \$140.00.

Size: 2.6" round x 0.75" high
Weight: 6 oz.

Size: 2" square x 0.5" high
Weight: 4 oz.



Permanent Mount

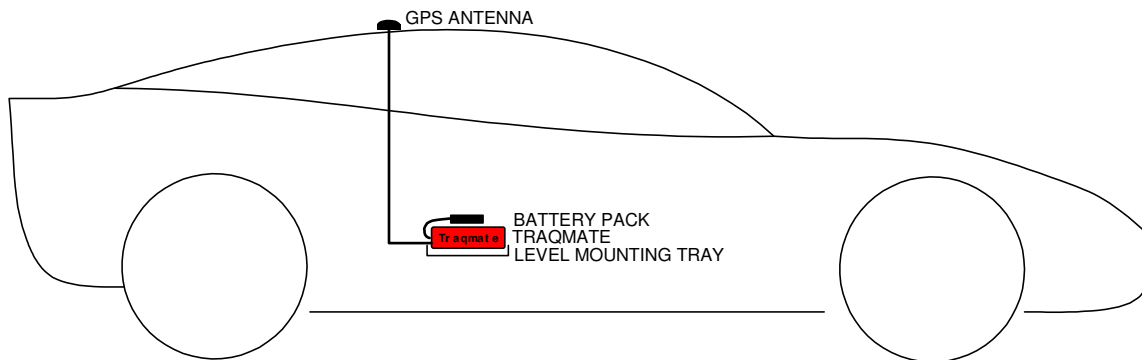


Magnetic Mount

The SU mounting tray is to be mounted level when the vehicle is sitting on a level surface. It should be placed as close to the center of gravity of the vehicle as possible and away from possible sources of water, or excessive heat. The Velcro should be installed in the center of the tray.

The GPS antenna is to be located in the center of the vehicle roof. The wire should be routed through the vehicle to the SU mounting tray. The wire may be routed through a door or window seal as long as the cable is not pinched or cut.

When SCCA Pro Racing wishes to monitor a vehicle, they will place the Traqmate sensor unit and battery pack in the tray, connect the antenna, and turn it on. The industrial Velcro and tray will hold the unit securely in place.



The kits will be required in all cars running a World Challenge event. They are required to be installed before the first official on-track session. Cars that do not have the required kit installed may be penalized.

Note: We will be implementing this rule beginning at Sebring 2007no exceptions.

SCCA Pro Racing will carry a small number of these kits on the series transporter for purchase for teams that are only running limited races, but please do not count on us having spares.

Teams and drivers must be prepared to be selected to have a Traqmate system installed while on grid. It will be the teams' responsibility to make it easy for our technical staff to access the Traqmate system mounting area and have the antenna connection close to the SU mounting tray along with enough slack that it can easily be connected to the sensor unit.

Continued use of Stack scrutineering data systems

Any car required to utilize a scrutineering data system under Article 2.7.8.3 will continue to be required to have this system installed to verify compliance with RPM, boost limits, etc.

Additionally, we will still continue to collect data from on-board data systems and engine management systems, so be prepared to conform to all rules within the 2.7.8: Data Acquisition / Engine Management / Electronic Driver Aids section of the PRR.

As always, tampering with any data system, or altering collected data, is strictly forbidden. Teams found to be tampering with any data, or the collection devices, will be penalized per section 1.11.2.

