POWER GRID™

IGNITION SYSTEM

The Pinnacle of Programmable Power!

MSD set the standard in programmable ignition systems. In fact, every NHRA Pro Stock championship in the last few years has been with an MSD Programmable 7. Drag radial, twin turbo outlaw cars and 10.5" tire classes all rely on the advanced programming of MSD's Programmable 7 ignitions.

Wait until they see the Power Grid.

- Ultimate control over your rpm and timing
- MSD View software is easy to use
- Expandable with modular accessories
- USB connection to your PC for programming
- Micro-SD for unparalleled data acquisition

MSD®

POWER GRID

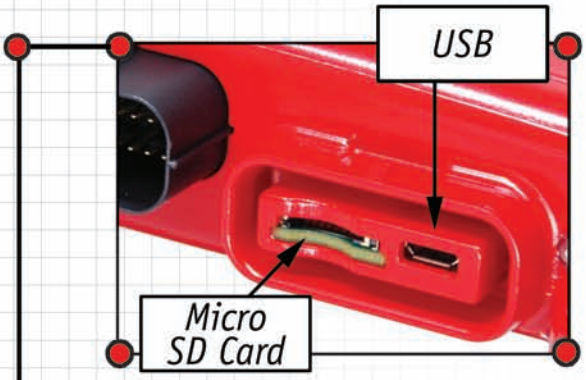
The Power Grid Ignition System is the next evolution of our Programmable 7-Series Ignition Controls. The Grid incorporates an efficient 32 bit microcontroller and an all new software program, called MSD View, and is USB compatible. The Windows based software is designed with tabs to help racers easily select different programming windows and parameters. Also, race data is recorded on a micro SD card for ease of storage and reviewing.

The Power Grid Ignition incorporates CAN-Bus technology which reduces the amount of wiring and simplifies the addition of accessory modules.

The CAN-Bus is a common harness that accessory controls are connected to and easily brought into the programming library of the View Software. With this technology, racers can also connect the Power Grid system directly into their Racepak Data Recorder to share ignition data

The Power Grid Controller, PN 7730, is the brains behind the entire system and can be used with any MSD Ignition or the Pro Mag to provide advance ignition tuning capabilities. While it is compatible with all MSD boxes, the new Power Grid System Controller has been specially designed to mount to the Power Grid-7 Ignition. This new Ignition, PN 7720, packs higher output than the current programmable units!

The Power Grid Controller is supplied with the View Software, wiring harness, micro-SD card and mounting hardware. The ignition, available separately, is supplied with the harness and mounting hardware.



The Controller features a single wiring harness routed through a durable, locking connector. Next to it is a sealed cover that protects the micro-SD card and the USB connection. That's right, the Power Grid uses a USB connection for easier connections and power up during programming!

POWER GRID IGNITION SYSTEM™:

CONTROLLER – PN 7730*
IGNITION – PN 7720*
PRO POWER HVC II COIL – PN 8261*

OPERATING SPECIFICATIONS

SPARK ENERGY:	200-220 mJ Per Spark
PRIMARY VOLTAGE:	545-570 Volts
SECONDARY VOLTAGE:	50,000 Volts plus
SPARK SERIES DURATION:	20° Crankshaft Rotation
RPM RANGE:	15,000 RPM with 14.4 Volts
VOLTAGE REQUIRED:	12-18 Volts, Negative Ground
CURRENT DRAW:	1.3 Amp per 1,000 RPM
WEIGHT & SIZE:	2.9 lbs., 7.5"L x 5"W x 2.25"H

*Not legal for sale or use on pollution controlled vehicles

The Controller is designed to mount on top of the Ignition housing. This keeps wiring and required space at a minimum.

PROGRAMMING FEATURES

- USB connection for ease of programming
- Timing based on engine rpm, gear value, and/or time
- Advanced individual cylinder timing based on gear or time
- Five retard stages for nitrous
- Four steps of rpm limits for burnout, spool, launch and overrev
- Output switch set on rpm, pressure or time
- Shift light settings for each gear
- Ignition data acquisition accepts multiple runs

ACCESSORY MODULES:

Adding accessories is simple due to the CAN-Bus technology. Each module plugs into the Power Grid and the software recognizes the module's features and operation.

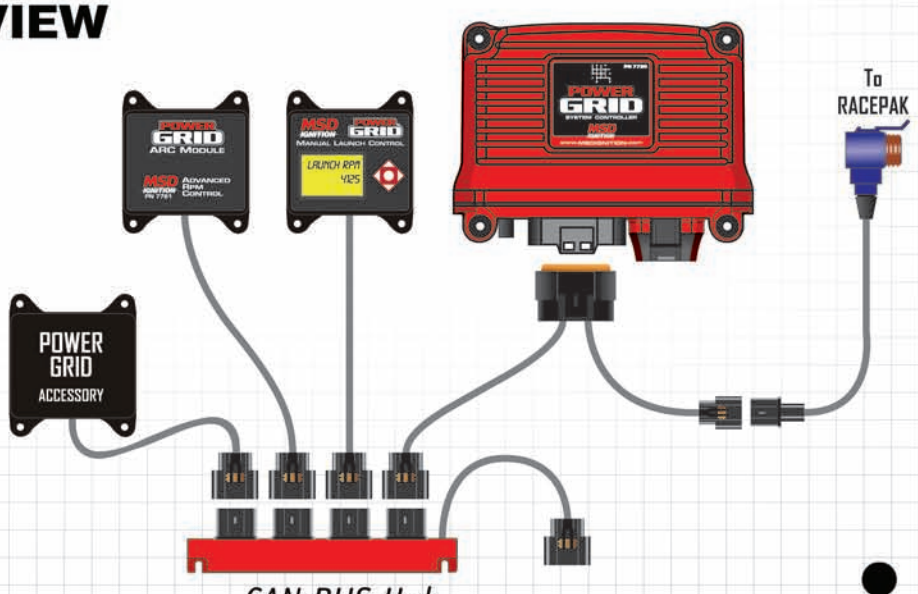
Launch Control Module	PN 7751
ARC Module	PN 7761
Boost Retard Module	PN 7762
Boost Control Module	PN 7763

POWER GRID ACCESSORIES:

4-connector CAN-Bus Hub	PN 7740
Termination Cap	PN 7741
Replacement Harness	PN 7780
2' Extension Harness	PN 7782
4' Extension Harness	PN 7784
6' Extension Harness	PN 7786
Adapter Harness (7730 to Digital 7)	PN 7789

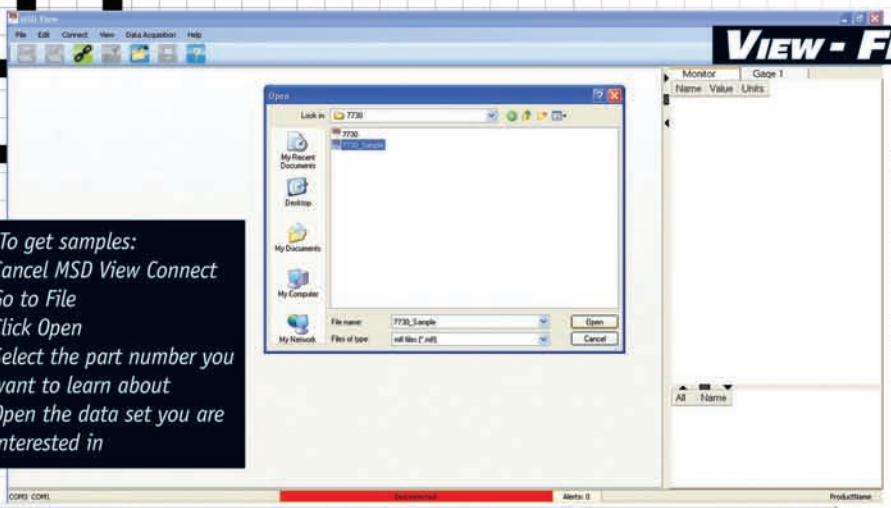
WIRING OVERVIEW

The Power Grid System consists of a central Controller and an Ignition. The Controller is the brains of the system, while the Ignition is a high output CD ignition (or use your existing MSD ignition). To add accessories, such as a Boost Retard Module, or a Manual Launch Shift Light Control, simply plug the new Module into the CAN-Bus bridge connector – that's it! Also, notice the separate connector that plugs directly into a RacePak Data System. The Power Grid is designed to share its ignition information to Racepak's data!



CAN-BUS Hub

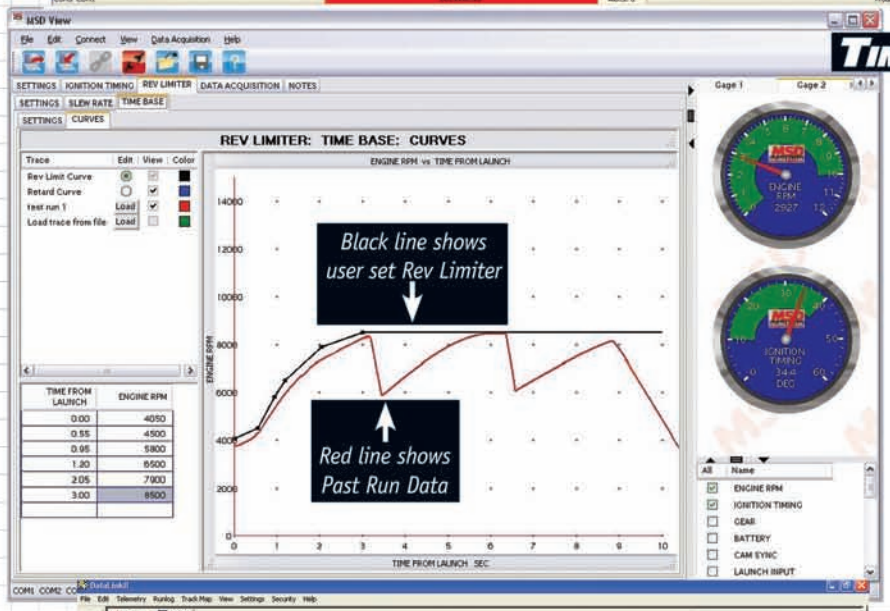
ALL NEW VIEW SOFTWARE



VIEW - FREE DOWNLOAD

The new View software was designed with racer input to improve navigation and help ease programming. See for yourself at msdignition.com to download the software FREE!

Once you have downloaded the software you can open one of our sample data files to see exactly how the program would work with the ignition you are interested in before you buy; it's like a test drive without an annoying salesperson.



TIME BASED REV LIMITER

Using this part of the View software, a racer can import RPM data from past runs to help determine the best rev limits throughout the entire pass. Plotting a few points on graph will keep the car below a certain rpm based on the time since launch. This way, if the tires break loose 1.0 seconds into the run the engine won't be able to speed all the way to the final overrev setting. This feature isn't likely to lower any ETs but will work great to help salvage a run that would have otherwise been thrown away.

- *Help create consistency with repeatable rpm*
- *Salvage a run that could have been ruined by tire spin*
- *Easily changeable to adjust for track conditions*
- *Keep the engine rpm in control no matter when issues arrise*

MSD TO RACEPAK DATA REVIEW

The Power Grid improved to multiple run data acquisition capabilities using a removable SD card. For Racepak users it gets even better as ignition data can be seamlessly sent to the RacePak system so that all the run data is easily viewed in one program. The Power Grid will record engine rpm and timing, rev-limits, step retard wire activation, and more. Using the included V-net connector the Power Grid plugs directly into the Racepak CAN-Bus system so the install can be done in minutes.

MSDPERFORMANCE.COM

MSD

MSD TECH LINE: 915-855-7123

FRM 30869