



2036 Fillmore Street
Davenport, Ia. 52804
563-324-1046
www.racedigitaldelay.com

MEGA PANEL

Instructions

WARRANTY AND DISCLAIMER

DIGITAL DELAY ELECTRONICS INC. WARRANTS THE PRODUCTS IT MANUFACTURES AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD LIMITED TO 1 YEAR FROM THE DATE OF SHIPMENT, PROVIDED THE PRODUCTS HAVE BEEN STORED, HANDLED, INSTALLED, AND USED UNDER PROPER CONDITIONS.

The company's liability under this limited warranty shall extend only to the repair or replacement of a defective product, at the company's option. DIGITAL DELAY ELECTRONICS INC. disclaims all liability for any affirmation, promise, or representation with respect to the products.

The customer agrees to hold DIGITAL DELAY INCORPORATED AND DIGITAL DELAY ELECTRONICS INCORPORATED harmless from, defend, and indemnify DIGITAL DELAY INC. AND DIGITAL DELAY ELECTRONICS INC. against damages, claims, and expenses arising out of subsequent sales of or use of DIGITAL DELAY ELECTRONICS INC. products, or products containing components manufactured by DIGITAL DELAY ELECTRONICS INC. and based upon personal injuries, deaths, property damage, lost profits, and other matters which BUYER, its employees, or sub-contractors are or may be to any extent liable, including without limitation, penalties imposed by the Consumer Product Safety Act (P.L. 92-573) and liability imposed upon any person pursuant to the Magnuson-Moss Warranty Act (P.L. 93-637), as now in effect or as amended hereafter.

No warranties expressed or implied, are created with respect to the company's products except those expressly contained herein. The customer acknowledges the disclaimers and limitations contained and relies on no other warranties or affirmations.



2036 Fillmore Street, Davenport, Ia. 52804
563-324-1046 www.racedigitaldelay.com

The Mega Panel consists of two units, the Switch Panel and a Relay Power Board. The Switch Panel is typically mounted within easy reach of the driver, while the Relay Board is mounted anywhere that is convenient, as long as cable from the Switch Panel will reach.

To keep up with the ever expanding use of electronics in drag race vehicles the Relay Power Board has been designed to handle 80 Amps continuously and has been tested at currents over 100 Amps. This far exceeds all other brands of switch panels. The high power capability of the Relay Power Board ensures that all electrical devices in the vehicle receive full power from the battery. The Relay Power Board also has an Emergency Off feature that when activated turns power off to electrical devices controlled by the Relay Power Board while turning on only the Tail Light for safety at night.

Switch Panel Wiring:

Plug the cable for the Switch Panel into the connector on the Relay Power Board. This is all the wiring that is required to allow the Switch Panel to function. However there are some outputs on the back of the Switch Panel that can be used if desired. The "Tail" terminal will supply battery power when ever the Tail Light switch is turned on. This would typically be used to supply power to backlights for gauges. The "Ign." terminal will supply battery power when ever the Ignition switch is turned on. This would typically be used to supply power to a digital tachometer, electric gauges, or any other low current device(s) to be turned on when the Ignition is on. There is also a "GND" terminal to supply a ground reference for devices connected to the "IGN" and "Tail" terminals. Also there is a 2 Amp capacity "Pass Through" terminal that can be used to pass a signal between the Relay Power Board and the Switch Panel. This is nothing more than a piece of wire with a terminal at each end. One possible use would be to pass the Tach signal to a digital tachometer on the dash. Finally there is a fused un-switched +12Volt source capable of providing up to 2 Amps of power.

Relay Power Board Wiring:

For proper operation of Relay Power Board use the supplied 6 gauge wire. Cut wire to length and strip ½ inch of insulation and insert bare wire into the high current connector. The end with the eyelet connects to the master cut-off switch or the Starter solenoid which ever is closer. The **Chassis Gnd** on terminal block must be connected to ground on the vehicle for the Relay Power Board to work. All the rest of the terminals on the Relay Power Board are outputs and are labeled on the board as their intended use. If outputs are used to control devices other than intended just make sure the current for the device is less than the fuse rating for that output.

Warning: The large 6 gauge power wire must be secured to the Relay Power Board with the supplied tie wrap. This is to prevent the large 6 gauge power wire from causing a direct short across the battery by coming in contact with the frame, if the high current connector was to come lose.

The Relay Power Board

The LEDs

The Relay Power Board has an LED indicator for each fuse, each output, and the Emergency Off feature. The green LEDs, when lit, are used to indicate that the fuses are good. The yellow LEDs, when lit, are used to indicate when outputs are on and the red LED, when lit, indicates the Emergency Off is activated.

Dual Select Feature

The Relay Power Board's Dual Select Feature allows two outputs to be turned on by a single panel switch. There are three Dual Select switches on the Relay Power Board labeled A, B, and C. Use the list below to see which outputs turn on together.

When **Dual Select** is turned on:

A, will turn on both Headlight & Taillight outputs at the same time when switch on control panel is set to headlight.

B, will turn on both Aux. 1 & Aux. 2 outputs at the same time when switch on control panel is set to Aux. 2.

C, will turn on both Water Pump & Fan outputs at the same time when switch on control panel is set to fan.

When **Dual Select** is turned off, the Switch Panel switches will work each output independently.

Note: To get a high current output, up to 35 Amps, connect AUX 1 and 2 together with a jumper and then turn on Dual Select B. When the Switch Panel switch for Aux 2 is turned on, both Aux 1 and 2 will turn on and share the current load.

Emergency Off

The Relay Power Board also has an Emergency Off feature that when activated turns power off to electrical devices controlled by the Relay Power Board while turning on only the Tail Light for safety at night. To use this feature a push button must be wired to the Relay Power Board as follows, one wire from the push button goes to ground. The other wire from the push button goes to the Emergency Off Terminal on the Relay Power Board. When the button is pressed the Emergency Off is activated. The only way to reset or deactivate the Emergency Off feature is to turn off the master cutoff for a short period of time. When the master cutoff switch is turned back on and power is restored to the Relay Power Board the Emergency Off feature will be automatically reset.

The Switch Panel

The Switches

The switches are labeled as to their intended use, however they can be used to turn on any device as long as the current does not exceed the fuse rating for that output on the Relay Power Board. The Fuel switch will only turn on when the Ignition switch is on. This is a safety feature required in some classes by NHRA.

If both lights on any of the double throw switches come on together, when pressing the switch down, they indicate that the Power Relay Board's Dual Select Feature is turned on for that switch and that both outputs for the switch are turned on.

Press the center section of the Start Engine button for operation.