



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

2-Stage Timer

WARRANTY AND DISCLAIMER

DIGITAL DELAY 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 INC. disclaims all liability for any affirmation, promise, or representation with respect to the products.

The customer agrees to hold DIGITAL DELAY INCORPORATED harmless from, defend, and indemnify DIGITAL DELAY INC. against damages, claims, and expenses arising out of subsequent sales of or use of DIGITAL DELAY INC. products, or products containing components manufactured by DIGITAL DELAY 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.



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INSTRUCTIONS FOR 2 STAGE TIMERS

BENEFITS

- Quartz Crystal Timing.
- Solid State Construction with 30 amp. output relay
- Time delays may be set to 1/100th. of a second resolution. Instant cycle restart when button is pushed in middle of the first timing cycle.
- The case is heavy industrial die-cast aluminum.....more durable than thin sheet metal boxes-- die-cast offers the best in electrical noise protection.
- Incorporates an output power reversing switch- permits user to select off/on/off throttle control or on/off/on throttle control at the flip of a front panel switch-no wire changing!!!
- Led panel indicators to indicate box status.
- Left led-RED-power on when lit
- Middle led-GREEN-on only when TIMER is timing out the first cycle.
- Right led-GREEN-on only when TIMER is timing out the second cycle.
- Large thumbwheel switches for glove on use and easy reading.

SPECIFICATIONS

- Input Voltage Range: 9.0 to 15.0 VDC
- No Voltage Drop through 2 STAGE TIMER
- Output Current Range: 30 Amps. continuous-
- Standby Current Draw: 0.02 Amp. to 0.03 Amp.
- Operating Temperature Range: -45 to +150 degrees F.
 - internal temperature.
- Timing Range: 0.01 to 9.99 seconds for each timing cycle.
- The timer must have at least 0.01 seconds set into each timer to operate.
- Dual usage: can be actuated by the release of the Transbrake voltage or can be actuated by a pushbutton (must supply 12 VDC to HOTWIRE-TRANSBRAKE terminal)

INSTALLATION INSTRUCTIONS

PART # 1005

READ THE WARRANTY AND THE DISCLAIMER FIRST

The **2 STAGE TIMER** may be located in any position . It is suggested that the **TIMER** be mounted at least 12 inches from the ignition system. Test the operation of the **TIMER** with the engine running. If operation of the timer is incorrect, contact **DIGITAL DELAY INC.** at 563-324-1046. The **2 STAGE TIMER** has been designed to operate with all ignition systems, but it is impossible to cover all situations. Please call if you have a problem.

The **2 STAGE TIMER** must be operated with a negative ground 12volt system only. Connecting to a positive ground system will result in no operation of the unit and possible damage. This is out of warranty use.

THE GROUND WIRE SHOULD BE CONNECTED BEFORE ANY OTHER WIRES. THE WIRES SHOULD BE 14 GA. FOR THE GROUND, +12VDC, AND THE TRANSBRAKE WIRES. The pushbutton wire may be any size that is convenient (at least 18 Ga.), and it does not need to be shielded wire. Increase the wire size to 10 GA. if you are using a throttle stop with more that 10 Amps. current draw.

The Timer ground must be grounded to the Chassis (not to aluminum).

OPERATION NOTES

The red led on indicates the box is turned on and that it's power supply is working.

Two green leds are provided to monitor the operation of the **2 STAGE TIMER**. The middle green led turns on when the first stage timer is timing out the first timing cycle. The right green led turns on when the second timer is timing out the second timing cycle. This is the only time that the two green leds will be on.

The **OUTPUT POWER REVERSER** Switch on the right side gives you the option of off/on/off or on/off/on throttle settings. When the **TIMER** is turned on, the output is preset to the first stage of your selection. When the second cycle timer completes its' cycle, the output returns to this preset condition. One important feature of the **2 STAGE TIMER** is the ability to restart your **FIRST** cycle if you slip off the pushbutton, the timer resets to the beginning of the timing cycle, as long as the first cycle is not completed. This means that you can instantly recover without having to complete the timing sequence.

2 STAGE TIMER

