

Thank You for Purchasing a



**TRIDENT™**

SINGLE ZONE CONTROLLER

**Model T3A**

**Automatic Misting Controller**

## **INSTRUCTION MANUAL**

*Please read entire Instruction Manual  
(including Limited Warranty)  
before installation.*



13688 Rider Trail North

Earth City, MO 63045

(314) 770-0717 • Fax: (314) 506-4587



- 1) "ON" Time Rotary Switch
- 2) "OFF" Time (or Time Between Cycles) Rotary Switch
- 3) MODE Selector Switch
- 4) Seconds/Minutes ("A" Mode) LED
- 5) Minutes/Minutes ("B" Mode) LED
- 6) Minutes/Hours ("C" Mode) LED
- 7) Solenoid "ON" LED
- 8) Solenoid "OFF" LED
- 9) Event (or Program) 7- Segment Display
- 10) Clock/Timer 7- Segment Display
- 11) "DOWN" Button
- 12) "UP" Button
- 13) "ENTER" Button
- 14) Power Plug (24 Volts AC)
- 15) Solenoid Plug

## THE 3 PRIMARY MODES OF THE TRIDENT

There are 3 primary modes of operation.

- “A” Seconds of ON time, Minutes of OFF time.
- “B” Minutes of ON time, Minutes of OFF time.
- “C” Minutes of ON time, Hours of OFF time.

The 3-Position Mode Selector Switch is used to change between Modes. Selecting either of the modes will cause the corresponding BLUE LED to light. The mode selected LED will always be lighted except when in programming mode.

### SELECTING YOUR “ON” AND “OFF” TIMES

You select your desired “ON” and “OFF” times by using the Rotary Switches at the top of the controller.

### THE ON TIME ROTARY SWITCH

The “ON” Time Rotary Switch selects how long the controller’s output is activated.

This switch has twelve possible settings for Time ON, they are; 2, 4, 6, 8, 10, 12, 15, 20, 30, 40, 50, or 60

These increments will either be in Seconds or Minutes depending on the current Mode that is selected.

NOTE: There is a flashing indicator on the top right hand corner of the 7 segment display that indicates seconds if the time is greater than 99 minutes/hour.

### THE OFF TIME ROTARY SWITCH

The “OFF” Time Rotary Switch selects when the output is de-energized.

This switch also has twelve possible settings to choose from. They are; ON, 2, 4, 6, 10, 15, 20, 30, 60, 120, 180, or OFF.

If ON is selected then the output will remain energized as long as it is selected.

If OFF is selected there will be no power to the output or the countdown of any programs. You will however still be able to see the time on the controller and no programs will be erased.

## SETTING OR CHANGING THE TIME

\*Note\* When setting the clock the screen will actually go through the event programming first.

\*Note\* it is easy to tell when in the programming mode as the BLUE LEDs will no longer be lighted.

- Hold down ENTER for 4 Seconds.
- The display will first switch to EVENT programming after 2 seconds and then to the TIME programming mode. (notice the blue timing indication lights will be off)
- Use the UP or DOWN buttons to set time.

NOTE: A red dot will appear on the lower right digit display indicating PM.

### TO SET OR CHANGE PROGRAMMS

- There can be up to 8 events (on-off functions) that can be programmed.
- Hold down the ENTER key for 2 Seconds.
- Event 1 will first appear indicating “ON”.
- Pressing the UP or DOWN key will begin the time setting.
- Press the ENTER key again to program the “OFF” time and use the UP or DOWN key to set the time.
- If ON/OFF times have been entered, those times will be shown and can be changed if needed, or bypassed to setting or reviewing the following programs.

NOTE: A red dot will appear on the lower right digit display indicating PM.

NOTE: Events are not needed for controller to work

## CONNECTING YOUR SOLENOID

- Standard 24VAC Solenoids
- Simply strip wire jacket back approximately ¼” from end of both wires, (if not already done by manufacturer).
- Insert 1 wire into #1 slot of solenoid plug (provided by Phytotronics) and the other wire into the #2 slot and tighten down firmly, BY HAND, with supplied Phytotronics screwdriver.
- 3 Wire 24VAC Solenoids
- Attach the 2 power wires just like a 2 wire solenoid into solenoid plug.
- The 3rd wire is a ground wire. (usually green or green with a yellow stripe) ground this wire properly with all local, state, and national codes.
- 120VAC Solenoids
- 120VAC solenoids will not work directly with your Trident T3A.
- You must use some kind of 24VAC interface between your Trident T3A and 120VAC solenoid. i.e. a 24VAC relay.

NOTE: Any attempt to bypass the 24VAC transformer to power this unit directly from a 120VAC power source will damage the controller’s circuitry and render it unfit for use.

Such action will also void the Phytotronics warranty!

NOTE: Maximum controller output is 1 Amp.

**FOR ANY TROUBLESHOOTING  
PLEASE CONTACT PHYTOTRONICS @:**

OFFICE: (314) 506-4578

FAX: (314) 506-4587

EMAIL: [repairs@phytotronics.com](mailto:repairs@phytotronics.com)

## Repair Policy

Authorization to return products for service (whether or not under warranty) must first be obtained by calling: (314) 770-0717, faxing: (314) 506-4587, emailing: repairs@phytotronics.com or writing to **Phytotronics® Customer Service**, 13688 Rider Trail North, Earth City, MO 63045. Any product returned without proper authorization will not be accepted, and will be returned to the sender.

Product under warranty which is in need of repair is to be returned, postage prepaid, with a copy of the sale receipt or invoice and an explanation of the malfunction or defect. Product determined by us to be covered by the limited warranty will be, at our sole option, repaired or replaced and returned by standard UPS delivery service at no charge.

Product which requires service beyond the warranty period is to be returned, postage prepaid, with a check or money order made payable to **Phytotronics®**, Inc., for \$95.00. The standard charge for service and repair is \$95.00 and includes a 90 day original purchase limited warranty and return by standard UPS delivery service.

If the product requires service or repair in excess of the standard \$95.00 service charge, you will be contacted by **Phytotronics®** Customer Service to determine appropriate action. **Phytotronics®** Customer Service will provide an estimate of repair costs to you which will include a 90 day original purchase limited warranty and return by standard UPS delivery service.

Product which is inspected but not repaired or which is beyond repair will be subject to a minimum \$50.00 service charge to cover inspection and return by standard UPS delivery service. The remaining \$45.00 will be refunded to you.

If you request return by express or overnight delivery services, or postal services other than UPS, you will be billed for the additional charges incurred.

Emergency field testing can be done by calling **Phytotronics®** technicians.

We will make every reasonable effort to repair and ship your controller within five (5) working days upon receipt. Our standard repair policy and practice require that every unit, whether new or repaired, be fully tested and inspected for proper operation, and exercised under full load for 24 hours prior to return.

**THE LIMITATIONS DESCRIBED UNDER THE LIMITED WARRANTY APPLY TO ANY REPAIRED OR REPLACED PRODUCT, WHETHER OR NOT UNDER WARRANTY.**

## Loaner Policy

Customers in need of a loaner controller may contact **Phytotronics®**, Inc. at (314) 770-0717. Loaners are available for the length of time it takes to repair your unit. The handling charge for loaners is \$45.00 and includes UPS freight charges for delivery of a loaner to customers in the continental United States. Loaners are shipped regular UPS unless the customer requests and agrees to pay for second day air or next day air UPS service. **Phytotronics®**, Inc. reserves the right to require a \$45.00 prepayment and a deposit of 1/2 the commercial value of the controller prior to sending a loaner to customers who have been delinquent in the past, are currently past due, or do not have a previously established charge account with **Phytotronics®, Inc.**

**NOTE:** All fees for repairs and services described above are in U.S. dollars.

# EVENT PLANNER

Event	"ON" Time	AM	PM	"OFF" Time	AM	PM
1						
2						
3						
4						
5						
6						
7						
8						

# EVENT PLANNER

Event	"ON" Time	AM	PM	"OFF" Time	AM	PM
1						
2						
3						
4						
5						
6						
7						
8						



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# Limited Warranty

**Phytotronics®, Incorporated** (“we”) warrant to the original purchaser (“you”) that the product or system accompanying this warranty (the “product”) will be free from defects in material and workmanship existing at the time of manufacture and appearing within two (2) years from the date of original purchase. This warranty applies only so long as the product is stored, installed, operated and maintained in accordance with our recommendations, and when used under proper and normal use. THIS WARRANTY SHALL BE EXCLUSIVE AND, TO THE EXTENT PERMITTED BY LAW, SHALL BE IN LIEU OF ANY OTHER WARRANTIES, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT IMPLIED WARRANTIES MAY NOT BE DISCLAIMED, THE DURATION OF SUCH WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS EXPRESSLY LIMITED TO THE TWO YEAR PERIOD OF DURATION OF THIS LIMITED WARRANTY. In certain circumstances, some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

## When this Limited Warranty does not apply

This warranty does not cover claims resulting from failure to follow instructions on installation and use, neglect, misuse, accident, modifications, alterations, acts of God, vandalism, misapplication or repairs made by you or others, use of unauthorized attachments, use on a current or voltage other than specified, or overloading.

## Your remedies

If a covered defect appears during the warranty period, we will, (at our sole option), repair or replace the defective product at no charge for service or parts, provided that the product is delivered at your expense to our authorized service center. Parts and/or replacement product supplied under this warranty may be new or rebuilt at our option. Any product which is repaired or any replacement product will be covered under this warranty for the remainder of the one year period or for 90 days after repair or replacement, whichever is longer. THIS IS YOUR EXCLUSIVE REMEDY FOR BREACH OF THIS WARRANTY OR OF ANY IMPLIED WARRANTY OR OF ANY OTHER OBLIGATION ARISING BY OPERATION OF LAW OR OTHERWISE.

## What is not covered by the Limited Warranty

The warranty does not include reimbursement for the expenses of labor, transportation, installation, removal or any other expenses which may be incurred by you. For instructions on how to obtain warranty service, call 314-770-0717 or write to **Phytotronics®** Customer Service, 13688 Rider Trail North, Earth City, Missouri 63045.

IN NO EVENT SHALL WE BE LIABLE OR RESPONSIBLE FOR PUNITIVE, EXEMPLARY, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOSS OF CROP, REVENUES OR SAVINGS ARISING OUT OF THE BREACH OR PERFORMANCE OF ANY WARRANTY OR THE USE OR INABILITY TO USE THIS PRODUCT FOR ANY PURPOSE WHATSOEVER.

YOUR EXCLUSIVE COMPENSATION FOR LOSS OR DAMAGE ARISING FROM PURCHASE, USE, REPAIR OR REPLACEMENT OF ANY PRODUCT SHALL BE LIMITED TO AN AMOUNT EQUAL TO THE PURCHASE PRICE OF THE PRODUCT. THIS LIMITATION OF LIABILITY SHALL BE APPLICABLE TO ANY CLAIMS PRESENTED TO US REGARDLESS OF THE LEGAL THEORY FORMING THE BASIS OF SUCH CLAIM, AND WHETHER SUCH THEORY INVOLVES NEGLIGENCE, CONTRACTUAL LIABILITY, FAILURE OF REMEDY OR OTHERWISE.

In certain circumstances, some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.



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