

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.*



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Saint Charles, MO 63301

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- 1) "ON" Time Rotary Switch
- 2) "OFF" Time (or Time Between Cycles) Rotary Switch
- 3) MODE Selector Switch
- 4) Seconds/Minutes or 1X on/off time ("A" Mode) LED
- 5) Minutes/Minutes or 2X on/off time ("B" Mode) LED
- 6) Minutes/Hours or 3X on/off time ("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

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Connecting Power

Connect the fork end of the power cord to the plug in transformer using the two AC screws. The ground screw is not used.

THE 3 PRIMARY MODES OF THE TRIDENT

There are 3 primary modes of operation.

- “A” Seconds of ON time, Minutes of OFF time. During this mode unit operates at normal running time.
- “B” Minutes of ON time, Minutes of OFF time. During this mode unit operates at 2X running time.
- “C” Minutes of ON time, Hours of OFF time. During this mode unit operates at 3X running 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 seconds. During 2X mode 4, 8, 12, 16, 20, 24, 30, 40, 60, 80, 100, and 120 seconds. During 3X mode 6, 12, 18, 24, 30, 36, 45, 60, 90, 120, 150, and 180 seconds.

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. During 2X mode 4, 8, 12, 20, 30, 40, 60, 120, 240, and 360 minutes. During 3X mode 6, 12, 18, 30, 45, 60, 90, 180, 360, and 540 minutes.

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

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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 and the time will be showing)
- Use the UP or DOWN buttons to set time.
- When the correct time is set, push enter to go back to the run mode.

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

Hint* If the Clock is no longer keeping time, the coin battery (this is what keeps the memory of the clock a CR2032 battery on the board) needs to be changed. If the clock loses power frequently, this will lower the battery's life.

TO SET OR CHANGE PROGRAMS

NOTE: Events are not needed for controller to work. Controller will run 24 hours with no programs.

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

- There can be up to 8 events (on-off functions) that can be programmed.
- Hold down the ENTER key for 2 Seconds.
- #1 will show in the small window and either ON or OFF in the big window. If you want the controller to run 24 hours, make sure it says OFF.

- To set a program, push either the UP or DOWN key to show ON in the big screen.
- Press the ENTER key again to program the “ON” time and use the UP or DOWN key to set the time. Press the Enter key again to program the OFF time and use the UP or DOWN keys to set the time.

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- Normally program 1 is set to run during the day and program 2 through 8 are used to have the controller come on up to 7 times during the night. Setting each program to run for a minute or two. This is good if you are using bottom heat.

For example: program 1 – 8:30am to 8:30pm. Program 2 – 10:00pm to 10:03pm. Program 3 – 11:30pm to 11:33pm. Program 4 – 1:00am to 1:03am. Program 5 – 2:30am to 2:33am. Program 6 – 4:00am to 4:03am. Program 7 – 5:30am to 5:33am. Program 8 – 7:00am to 7:03am

When a program has the controller off, just the time will show on the display. If you think the controller should be running, check to make sure there are not two programs overlapping each other.

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 and the other wire into the #2 slot and tighten down firmly, BY HAND.
- 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 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 at one time. If output is exceeded, CR ERR will appear on the display. Turn the unit off, fix the condition and turn back on. This should clear the error.

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

OFFICE: (314) 770-0717

EMAIL: repairs@phytotronics.com

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 power surges, lightning, 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, email support@phytotronics.com or write to Phytotronics® Customer Service, 10 S Corporate Hills Dr, St Charles, Missouri 63301.

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