

RAIN BIRD TRU Series Irrigation Controllers



RAIN BIRD TRU Series Irrigation Controllers User Guide

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RAIN BIRD TRU Series Irrigation Controllers



Important Information

TRU Series Irrigation Controllers Troubleshooting Guide

Problem

WATERING ISSUES

- The controller is in automatic or manual watering mode, but the system is not watering
- Excessive watering
- The valve will not turn off with the controller

ELECTRICAL ISSUES

- Display is blank
- The display is frozen and the controller is not accepting programming

Potential Issues and Potential Solutions

Potential Issues	Potential Solution
The water source is not supplying water	Verify there is no disruption to the main water line and that all other water supply lines are open and functioning properly.
The wiring is loose, not properly connected or damaged	Check that the wiring is securely connected at the controller and in the field. Check for damage and replace if necessary. Check wiring connections and replace them with watertight splice connectors if needed.

RESETTING THE CONTROLLER

Restore the controller to its factory default settings

Note: This action will reset all programmed watering schedules back to factory default settings, and cannot be reversed.

1. Turn the dial to SEASON ADJUST.
2. Press and hold the < and > buttons at the same time until "Cleared" is displayed.

Specifications

Support Contact	1-800-RAIN BIRD
Website	www.rainbird.com
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Troubleshooting

Problem	Potential Issues	Potential Solution
WATERING ISSUES		
The controller is in automatic or manual watering mode, but the system is not watering	The water source is not supplying water	Verify there is no disruption to the main water line and that all other water supply lines are open and functioning properly.
	The wiring is loose, not properly connected or damaged	Check that the wiring is securely connected to the controller and in the field. Check for damage and replace if necessary. Check wiring connections and replace them with watertight splice connectors if needed.
	A connected rain sensor may be activated	Let the rain sensor dry out or disconnect it from the controller terminal block and replace it with a jumper wire connecting the two SENS terminals.
	The jumper wire connecting the two SENS terminals on the terminal block may be missing or damaged	The controller will not function if the jumper wire is removed and a rain or rain/freeze sensor is not connected. Jumper the two SENS terminals on the controller terminal block by connecting them with a short length of 14- to 18-gauge wire. If a rain sensor is installed, ensure both rain sensor wires are properly seated in the SENS terminals.

	The solenoid or master valve is shorted	Confirm a short message on the display. Correct the issue in the wiring. Clear the message by testing watering at the shorted valve or by pressing the > button.
Excessive watering	Programs may have multiple watering run days and start times that were set unintentionally	Watering run days and start times apply to the entire program, not individual zones. Programs (A, B or C) only require a single start time to run.
The valve will not turn off with the controller	The valve diaphragm is dirty or damaged and does not seat properly	Check small ports in the valve for blockage by debris; rinse and inspect the valve diaphragm and diaphragm seat for dirt or damage. Replace the diaphragm or valve body if damaged.
	The valve is not fully in “Manual Off” mode	Depending on the valve model, verify the solenoid is tightened into the full clockwise position (“Manual Off”) or turn the bleed screw or knob on top of the valve clockwise to tighten.
	Solenoid burned out or obstructed	Turn off the water and remove the valve solenoid. Check for twisting or damage to the solenoid o-ring, and for dirt impeding the movement of the plunger in the solenoid. Run water into the solenoid to dislodge dirt and/or push a piece of wire into the small hole in the retainer at the bottom of the solenoid to see if the plunger inside will move up and down freely. If not, replace the solenoid.
	Damaged or misaligned parts allow water to leak from the valve	Check the valve body and the bonnet for cracks. Verify the integrity of the seal between the body and bonnet, and the solenoid and bonnet. Repair or replace valve parts as necessary to stop leaks.
ELECTRICAL ISSUES		
Display is blank	Power not reaching the controller	Verify the power outlet is operational and the main AC power supply is securely plugged in and working properly.
		Verify the orange power supply wires are connected to the controller “24 VAC” terminals.
The display is frozen and the controller is not accepting programming	An electrical surge may have interfered with the controller’s electronics	Press and release the RESET button in the controller wiring bay. This will temporarily disrupt the controller from getting power from the input. If there is no permanent damage, the controller should accept programming and resume normal operation.
		Unplug the controller for two minutes, then plug it back in. If there is no permanent damage, the controller should accept programming and resume normal operation.

RESETTING THE CONTROLLER

Restore the controller to its factory default settings

Note:

This action will reset all programmed watering schedules back to factory default settings, and cannot be reversed.

1. Turn the dial to SEASON ADJUST.

2. Press and hold the < and > buttons at the same time until “Cleared” is displayed.

FAQ

1. What should I do if my controller displays a blank screen?

Verify the power outlet and the main AC power supply. If an electrical surge occurs, press and release the RESET button or unplug the controller for two minutes.

2. How do I stop my valve from excessive watering?

Check for multiple watering run days and start times that may have been set unintentionally. Also, inspect the valve diaphragm for blockage or damage.

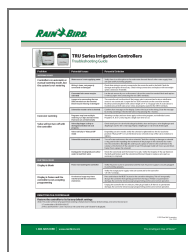
3. How can I reset the controller to its factory settings?

Turn the dial to SEASON ADJUST, then press and hold the < and > buttons until “Cleared” is displayed. Note that this will erase all programmed settings.

Contact Information

1-800-RAIN BIRD | www.rainbird.com.

Documents / Resources



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TRU Series Irrigation Controllers, TRU Series, Irrigation Controllers, Controllers

References

- [User Manual](#)

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