

TIMEBOSS
Lighting & Irrigation
Controller

Operation Manual

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Introduction

This manual covers the operation of the TimeBoss timer/lighting controller. The TimeBoss is a versatile touch screen controller that features 10 independent timers, each with 2 stages per day. The TimeBoss is equipped with Wi-Fi capabilities for software updating, as well as remote programming and monitoring through the Bartlett Headgrower App.

Precautions

BE SURE ALL POWER IS OFF BEFORE INSTALLATION!



INSTALLATION SHOULD BE DONE BY A LICENSED ELECTRICIAN.

BE SURE ALL WIRING AND EQUIPMENT IS INSTALLED ACCORDING TO LOCAL ELECTRICAL CODES.

THE TIMEBOSS IS A LOW VOLTAGE DEVICE. LIMITED TO 24V AC CONTROL VOLTAGES.

CAUTION: The TimeBoss is designed to be reliable but as with all equipment, failures do occur. Therefore, in situations where loss could result from the failure of the TimeBoss, a separate backup may be necessary.

The reliability and performance of the TimeBoss can be compromised by locating the controller in direct sunlight or in direct water spray.

Home Screen Overview

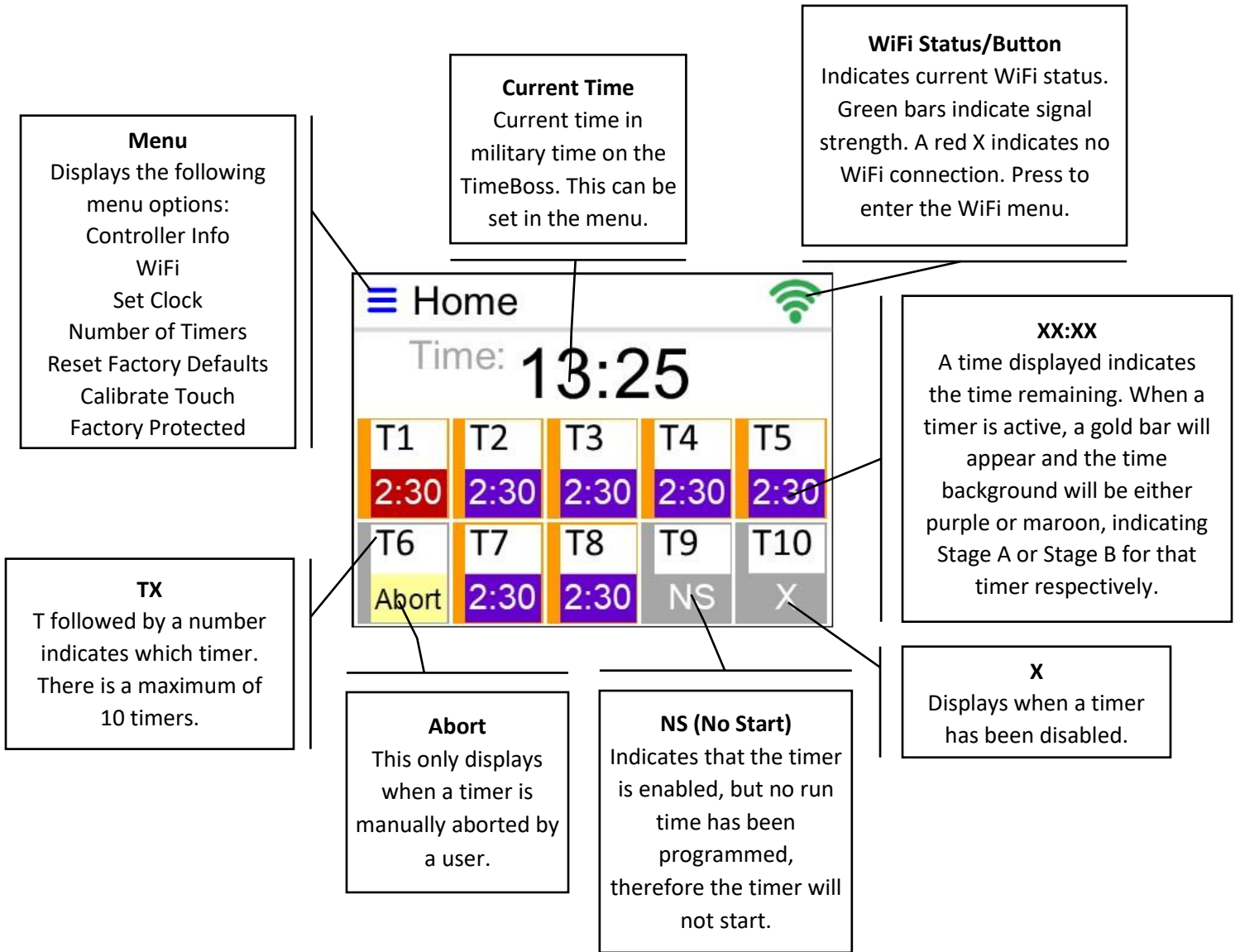


Figure 1: Home Screen Overview

Menu Screen

By pressing the Menu button – indicated by 3 bars in the top left corner - on the Home Screen, you'll be taken to the Menu Screen. The Menu Screen is a list of various options from controller info, WiFi settings, selecting the number of timers, and more. To navigate through the Menu options, press and hold the blue slider on the right side of the screen and slide up or down for more options. For more information on each component of the Menu, see the descriptions below:

Controller Info

Contains the **firmware version** plus the **serial number** and **mac address** for the controller. This information is used in conjunction with the Headgrower mobile app for remote monitoring and control of the controller. See WiFi section for more information about firmware updates.

WiFi

Set up Wi-Fi for Firmware download and for remote control and monitoring from the Headgrower mobile app (Requires subscription).

Enable Wi-Fi – Enable or disable the Wi-Fi feature. **Disable** turns Wi-Fi capabilities off at all times. **Enabled** turns the Wi-Fi on anytime it is within range of a setup Wi-Fi connection.

Wi-Fi Setup – To set up Wi-Fi for the TimeBoss, press “**Wi-Fi Setup**” and the controller will scan for nearby networks. Select your desired network and enter the password (if required) and press “**Save**”.

*****For security reasons, we highly recommend that the user place all controllers into a separate logical network or VLAN, separate from other networks, routers, and hardware.**

Update Firmware – If your controller is connected to the internet through the WiFi module, by pressing Update Firmware, you will connect to www.bartinst.com to see if any updates are available. Once it has found the firmware, you have the option to update your controller. Updating firmware will **NOT** affect the timer programs.

Reset WiFi – Press Reset WiFi when having trouble with the WiFi connection. The controller will reset the WiFi connection and attempt to reconnect to your currently saved connection.

Manual WiFi Setup – Used to manually set up a WiFi network that is hidden or otherwise not found when running WiFi Setup. Enter the network name under SSID and press “**Save**”. Under password, enter the network password at press “**Save**”.

WiFi Status

Displays the current connected network, WiFi signal strength, and cloud connection status.

Set Clock

Select to set the TimeBoss clock. It is in military time. For Example: 3PM is entered as 15:00, 12AM is entered as 0:00, and 10AM is entered as 10:00.

Number of Timers

Enter the number of timers being used. Max number is 10. When desired number of timers has been entered, press the “**Save**” button.

Reset Factory Defaults

Resets all settings to factory defaults. Upon selection, you will be asked to confirm before the controller will be reset.

Calibrate Touch

Used to re-calibrate the touch screen if buttons aren’t working properly. Press the “**Calibrate Touch**” button and follow the onscreen instruction to re-calibrate.

Factory Protected

Factory protected is used by Bartlett to set controller and display modes.

Timer Screen Overview

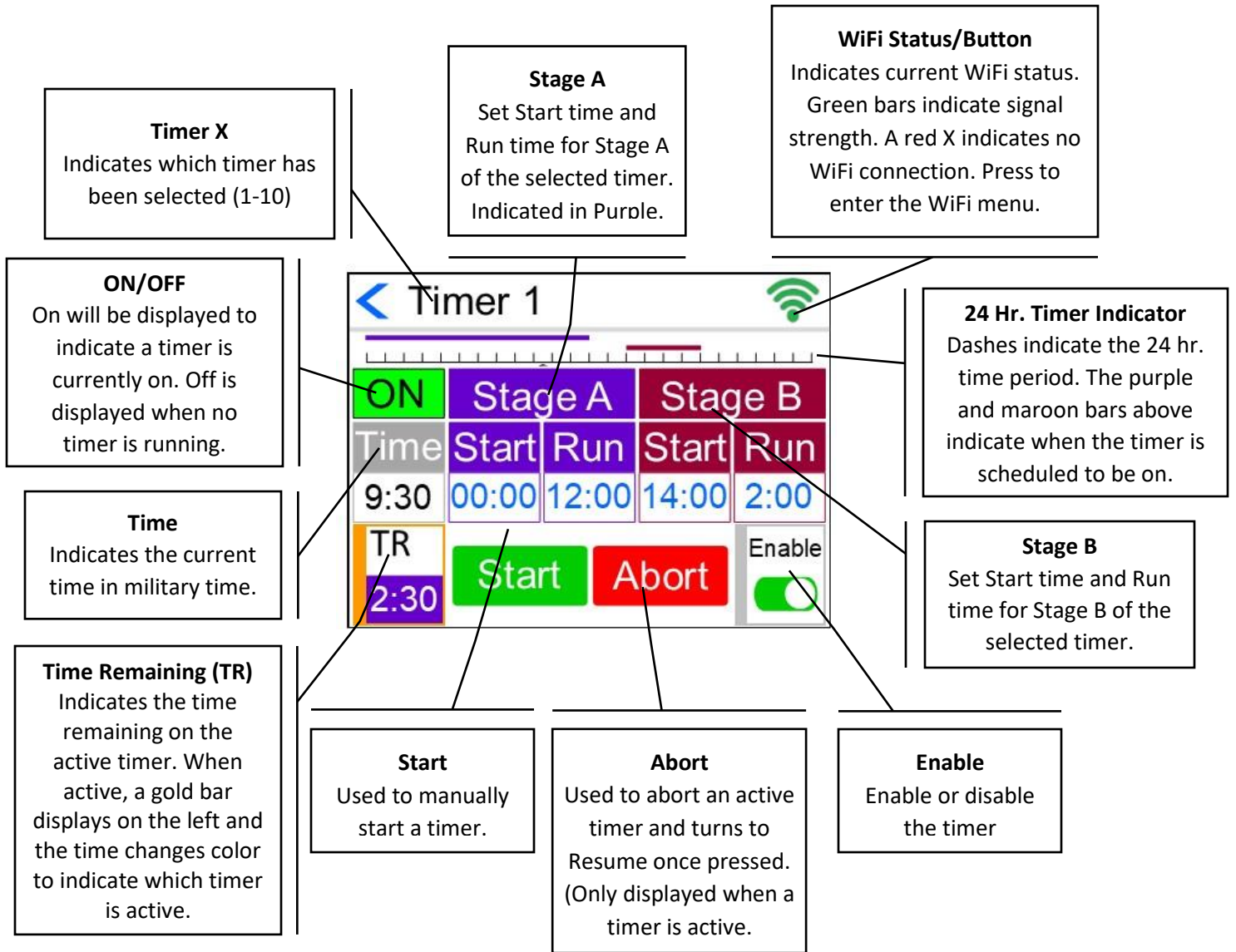


Figure 2: Programming Screen Overview

Programming

The basic programming of the TimeBoss requires the setting of a Start Time and Run Time for each timer, or a timer can be disabled if not in use. The TimeBoss utilizes a 24-hour clock (military time) when programming.

Programming Timers to Run Automatically

Programming steps can be repeated for each timer as needed.

1. From the Home Screen, press **T1** to program Timer 1 (T2 for Timer 2, T3 for Timer 3, etc.).
2. Press **Start** under **Stage A** to program Timer 1's Stage A Start Time.
3. Type in the desired start time **XX:XX** in HR:MN (Hours:Minutes. Ex: For 2:30 PM, enter 14:30) and press the **Save** button.
4. Press **Run** under **Stage A** to program Timer 1's Stage A Run Time.
5. Type in the desired run time duration **XX:XX** in HR:MN (Hours:Minutes) and press the **Save** button.
6. If a 2nd run time for Timer 1 is desired program **Stage B**
7. Press **Start** under **Stage B** to program Timer 1's Stage B Start Time.
8. Type in the desired start time **XX:XX** in HR:MIN (Hours:Minutes. Ex: For 2:30 PM, enter 14:30) and press the **Save** button.
9. Press **Run** under **Stage B** to program Timer 1's Stage B Run Time.
10. Type in the desired run time duration **XX:XX** in HR:MN(Hours:Minutes) and press the **Save** button.

Manually Start A Timer

1. Select the timer to be manually started. For Timer 1, press **T1**. (T2 for Timer 2, T3 for Timer 3, etc.)
2. Press the **Start** button to activate the timer.
3. Enter the duration for the timer **XX:XX** in HR:MN (Hours:Minutes) and press the **Save** button.
4. The remaining time for the manually started timer will display in the bottom left corner in green.

Stop A Timer in Progress

1. Select the timer to be stopped. For Timer 1, press **T1**. (T2 for Timer 2, T3 for Timer 3, etc.)
2. For an automatic timer
 - a. Press **Abort**, to suspend the timer. Abort will appear in the TR (Time Remaining) Section.
 - b. To resume the timer, press **Resume**.
3. For a manually started timer
 - a. Press **Stop**, to shut the timer off.
 - b. To manually restart the timer, see the **Manually Start A Timer** section above.

Enable/Disable A Timer

1. Select the timer to be Enabled or Disabled. For Timer 1, press **T1**. (T2 for Timer 2, T3 for Timer 3, etc.)
2. Press the Enable button to toggle between Enabled and Disabled. When disabled, an X will appear under **TR** on the timer screen as well as on the **Home** screen under the disabled timer.