

TAN TIME



TanTime™

Room Unit & OEM Timer

Operation Instructions

For Software Revision 2.9

**Digital Tanning Bed Timer Control Systems
for Complete Salon Control**

Manufacturers Statement	Page 3
Limited Warranty, Disclaimer, Limitation of Liability	Page 3
About This Manual	Page 4
Hardware Installation instructions	Page 4
The use of Registered Trademarks not belonging to TanTime™	Page 4
General Features and Characteristics of the Timer	Page 4
Accidental Button Presses	Page 4
Modes of Operation	Page 5
Reset-Sequence	Page 5
Determining Operating Mode	Page 5
Changing Mode of Operation	Page 6
Entering Emulation Mode from System Mode	Page 6
Entering System™ Mode from Emulation Mode	Page 6
Operating in System™ Mode with a Front-Room-Controller	Page 7
Operating in System™ Mode as a Stand-Alone Timer	Page 7
Determining if the Unit is Operating in Stand-Alone	Page 7
Setting up the Timer for Stand-Alone Operation	Page 7
Running a Stand-Alone Session in System™ Mode	Page 8
General Characteristics of Emulation Mode	Page 9
Meanings of LED Indicators While in Emulation Mode	Page 9
Operating in Emulation Mode with a Front-Room-Controller (Slave Mode)	Page 10
Starting a Session or Canceling Delay Time while under a Front-Room-Controller	Page 10
Pausing, Resuming or Canceling a Session while under a Front-Room-Controller	Page 10
Clearing a Clean Bed Alert	Page 10
Functions available in 3A® Emulation Mode	Page 11
Operating in Emulation Mode as a Stand-Alone Timer	Page 12
Beginning Emulation Stand-Alone Operation	Page 12
Changing Address, Clean Bed and Delay Time Features Manually	Page 12
Setting the Address Manually	Page 12
Setting the Clean Bed Feature Manually	Page 12
Setting the Stand-Alone Delay Time Manually	Page 12
Running a Session Manually	Page 13
Terminating a Delay Time Manually	Page 13
Pausing a Session Manually	Page 13
Canceling a Session Manually	Page 13
Clearing a Clean Bed Alert	Page 13
The Company	Page 14
Support	Page 14
TanTime™ Dedication	Page 14
Contact Us	Page 14
Returns and Repairs:	Page 14
Shipping / Mailing Address:	Page 14

Manufacturers Statement

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About This Manual

This manual covers the operation of all TanTime™ System™ Room Unit and OEM tanning bed timers that carry the software revision shown on the front of this manual. The software revision of a TanTime timer is printed on the label on the back of the programmed IC. The software revision is also displayed as the first pair of digits in the Reset-Sequence at power up.

Hardware Installation instructions

Timer hardware and installation are covered in the Timer specific Hardware Installation Instructions shipped with your TanTime™ Timer. Additional copies may be obtained from www.tantime.com, select "Support" and then the document of choice. You will need Adobe® Acrobat Reader® to view and print the document.

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General Features and Characteristics of the Timer

Accidental Button Presses

To help prevent accidental button presses, there is a 4 second delay typically required between button presses.

Initialization and Modes of Operation

Modes of Operation

TanTime™ timers covered by this manual have two distinct modes of operation. These are System™ Mode and Emulation Mode. System™ Mode allows the timer to be connected to and controlled by a TanTime™ TT-40™ controller. While in Emulation Mode, the TanTime™ timer will emulate the operation of a T-Max® 3A® timer, thus allowing it to be connected to and controlled by a T-Max® front-room-controller or equivalent. In either mode the timer may also be used as a Stand-Alone timer. Please note that while the TanTime™ Timer emulates a 3A® timer, it is not intended to perform identically to a 3A® timer.

Some timer models may also be used with a Remote Hand Unit (HU) or with a Third Party Interface (TPI). If your timer model is HU or TPI capable, instructions will be included in the timer specific manual.

Reset-Sequence

Upon reset the Timer will display a “Reset-Sequence” described here and referred to throughout these instructions. Table 1 describes each of the Reset-Sequence indications of the display and the **Delay** and **Session** lamps with their meanings for each operating mode and differing operating condition.

There are four different Reset-Sequences, one for Emulation Mode, and three for System™ Mode. These are shown in the four columns on the right of Table 1. For each Reset-Sequence there are four stages of indication. These stages are described from top to bottom in Table 1.

Table 1

Reset-Sequence Functions and Indications	Emulation Mode		System™ Mode				
			(Slave or HU operation)	(Stand-Alone)		(TPI Operation)	
<u>First</u> Display Indication	Software Revision		Software Revision	Software Revision		Software Revision	
Delay / Session - Lamps	On	Off	Off	Off	Off	Off	Off
<u>Second</u> Display Indication	Emulation Mode Address		Maximum time	Maximum time		Maximum time	
Delay / Session - Lamps	On	On	Off	Off	Off	Off	Off
<u>Third</u> Display Indication	Maximum time		“00”	“SA”		“7C”	
Delay / Session - Lamps	Off	On	Off	Off	Off	Off	Off
<u>Fourth</u> Display Indication	“0”		No Change	“00”		“00”	
Delay / Session - Lamps	Off	Off		Off	Off	Off	Off

Determining Operating Mode

To determine the operating mode of the timer, apply power to the timer and observe the Reset-Sequence. When the Reset-Sequence completes, if the display shows “0”, the Timer is in Emulation mode. If the display shows “00” the Timer is in System™ mode.

Initialization and Modes of Operation

Changing Mode of Operation

Note: When switching between modes the timer will retain all hour meters, session counts and mode specific address in memory. (The timer address for System™ Mode may be different than the address for Emulation Mode, and EACH are retained in memory.)

Entering Emulation Mode from System Mode

To enter Emulation Mode from System™ Mode, the display must show "00".

1. Press and hold both the **Start/Stop** and the **Set Time** buttons for four seconds until a double dash "- -" appears in the middle of the display.
2. Release both buttons and press and hold the **Set Time** button until an "A" appears in the left display.
3. Release the **Set Time** button and press and hold the **Start/Stop** button until a "C" appears in the right display.

The timer will then go through the Emulation Mode Reset-Sequence as described in Table 1.

Entering System™ Mode from Emulation Mode

1. Disconnect the Timer from the Emulation Mode front-room-controller and start a Timer Reset-Sequence using either method **a** or **b** below:
 - a. Cycle power to the Timer - Or -
 - b. With the timer display showing "0", press the **Start/Stop** button. Hold down the **Start/Stop** button and press the **Set Time** button. The Timer will show "□ □" on the timer display. Release both buttons and the Timer will enter the Reset-Sequence.
2. Before the Sequence completes, press and hold the **Start/Stop** button. Continue holding the button down. The display will show "rS", and finally begin another Reset-Sequence, starting with the software revision with the **Delay** and **Session** lamps off.
3. Release the **Start/Stop** button.

The timer will finish the Reset-Sequence in System™ Mode with both the Delay and Session lamps off.

(If the display shows "OL" it is still on-line and needs to be brought off-line. See "Beginning Emulation Stand-Alone Operation" on page 12 of this manual. If the display shows "LO" then Stand-Alone Lockout is set to "1". Stand-Alone Lockout must be cleared before attempting to perform any mode changes or operation without a front-room-controller. See Table 3.)

Operating in System™ Mode

Operating in System™ Mode with a Front-Room-Controller

While in System™ Mode the timer may be connect to and controlled by a TanTime™ TT-40™ or equivalent front-room-controller. Refer to the TT-40™ Instruction Manual for installation and operating instructions.

Operating in System™ Mode as a Stand-Alone Timer

There are no user parameters to setup while in System™ Mode as a Stand-Alone timer. Stand-Alone operation is provided to keep the tanning bed running when a functional front-room-controller is not available. The functions provided are Set Time (up to the maximum time shown in the Reset-Sequence), Start Session, Pause Session and Cancel Session.

Determining if the Unit is Operating in Stand-Alone

When power is applied to the timer it will go through its Reset-Sequence as defined previously in these instructions. If the display shows "SA" just before displaying "00" the timer is in System™ Mode and operating in Stand-Alone. If not, the unit must be set in Stand-Alone operation.

Setting up the Timer for Stand-Alone Operation

NOTE: This process of enabling Stand-Alone operation is intended to be somewhat difficult in order to prevent accidental Stand-Alone operation.

Follow the directions carefully paying close attention to button pressing and holding times.

To set the timer for Stand-Alone operation follow the steps below:

1. Press-and-Hold BOTH the **Start/Stop** and **Set Time** buttons simultaneously for (4) four seconds until the display shows a double dash "- -".
2. Release both **Start/Stop** and **Set Time** buttons.
3. Immediately Press and hold the **Start/Stop** button until the "- -" on the display goes blank.
4. Release the **Start/Stop** button.
5. Immediately press the **Set Time** button once.

The LED Display should now cycle through the Reset-Sequence showing the software revision number, maximum time, then "SA" (Stand-Alone), then remain with "00". The cycling through of these four states indicates that the timer has been successfully set for Stand-Alone operation.

If the LED Display did not show "SA" the timer was not successfully set for Stand-Alone operation. You must repeat steps 1. Through 5. until the "SA" appears.

While in Stand-Alone, the timer will operate independently until communication with a TT-40™ or equivalent controller is established.

Operating in System™ Mode

Running a Stand-Alone Session in System™ Mode

Stand-Alone operation of the timer is simple:

**Set
Time**

Pressing the **Set Time** Button will set the timer at it's pre-set maximum session time. The maximum session time allowed is determined by an IC chip inserted into the timer at the factory. It can not be changed except at the factory.

Pressing and holding the **Set Time** Button will loop the session time from the maximum down to zero and then count up to the maximum time again. To choose a session time less than the maximum time allowed, release the button at the desired session time setting.

**Start
Stop**

Pressing the **Start/Stop** button will start the session, the duration of which was determined above. The **Session** Lamp will illuminate steady to indicate that a session is running. If the session time was set to Zero nothing will happen.

Pressing the **Start/Stop** button momentarily while a session is in progress will pause the session, turning the tanning bed off but continue counting down session time and the **Session** lamp will flash once per second. If the **Start/Stop** button is held for 4 seconds the session will terminate, the **Session** lamp will turn off, and the display will show "00".

Operating in Emulation Mode

General Characteristics of Emulation Mode

- As a safety feature, if time has been set and the session was never started or was paused and not restarted, the timer will wait for approximately 1 hour and then clear the session time back to zero.
- While the timer is connected to an operating front-room-controller and the display shows “0”, pressing a key on the timer will cause “OL” (On-Line) to be shown on the timer display.
- If Lockout is enabled (see Table 3) while the timer is in Stand-Alone and the display shows “0”, pressing a key on the timer will cause “LO” (Lockout) to be shown on the timer display.
- Three features may be changed manually while the timer is off line. These are setting an address, enabling or disabling the Clean Bed feature (see Table 3), and changing the session start Delay Time for Stand-Alone operation. Instructions for these are found in “Operating in Emulation Mode as a Stand-Alone Timer”.

Meanings of LED Indicators While in Emulation Mode

A two character display and two separate indicator lamps are provided. They are the **Delay** indicator lamp and the **Session** indicator lamp. See the timer installation instructions for the position of these indicators. Each indicator may be off, on solid, flash slow (once per second), or flash fast (twice or more per second). The following table (Table 2) gives the status of these lamps during timer operation in Emulation Mode.

Table 2

Display	Delay Lamp	Session Lamp	Timer Status
0	Off	Off	Ready for time to be set
1 - 10	Fast	Off	Delay to start of Session is showing
1 - 30	Off	Fast	Timer is Paused & counting time
1 - 30	Off	Solid	Timer is Paused & Not counting time
1 - 30	Off	Slow	Session is running
LO	Off	Off	Timer is in Stand-Alone, a Timer button is pressed, & Lockout is enabled
OL	Off	Off	Timer is On-Line, a Timer button is pressed, & the Timer has NOT received it's own address
OL	Solid	Solid	Timer is On-Line, a Timer button is pressed, & the Timer HAS received it's own address
99	Off	Off	Timer is in Address-Auto-Set and waiting for the Start/Stop button to be pressed
Flashing 88	Off	Off	Timer is in Address-Auto-Set and waiting for the controller to assign an address to it
Flashing 01 - 98	Off	Off	Timer is in Address-Auto-Set and is displaying the timers new address. Timer will go to the Ready state when it is again receives it's own address from the controller.
Blank	Solid	Solid	Bed is dirty & awaiting cleaning
Blank	Fast	Fast	Bed is dirty & Set Time button is pressed (waiting 4 seconds to clear)
Blank	Solid	Off	Session is complete and bed is in Cool-Down

Operating in Emulation Mode

Operating in Emulation Mode with a Front-Room-Controller (Slave Mode)

While in Emulation Mode the timer will connect to and be controlled by a T-Max® front-room-controller or equivalent. In this mode the timer will emulate a 3A® timer and perform with all the control features given in Table 3 of this manual. To set or read a control feature or meter see the instructions for your front-room-controller. Three features may also be set manually. These are setting an address, enabling or disabling the Clean Bed feature (see Table 3), and changing the session start Delay Time for Stand-Alone operation. While it is recommended that these features be changed from the front-room-controller, instructions for manually changing these are found under "Operating in Emulation Mode as a Stand-Alone Timer".

Starting a Session or Canceling Delay Time while under a Front-Room-Controller

See the documentation for your front-room-controller for setting up and starting a session. If a delay time has been set, the delay time may be canceled and the session immediately started at the timer by pressing the **Start/Stop** button or by pressing the remote Start/Stop button if provided.

Pausing, Resuming or Canceling a Session while under a Front-Room-Controller

Press the **Start/Stop** button (or remote Start/Stop button if provided) once to pause a session. Press the button again to resume a session. While operating under a front-room-controller, the session can be canceled ONLY through the front-room-controller.

(Note: There must be a minimum of 4 seconds between button presses.)

See the documentation for your front-room-controller for running, pausing or canceling a session through the controller.

Clearing a Clean Bed Alert

If the Clean Bed mode is enabled, when the session has been completed the display will be blank and both the **Delay** and **Session** lamps will illuminate. After cleaning the room for the next user, press and hold **Set Time** button, or a remote **Start/Stop** if provided, until both the **Delay** and **Session** lamps go out and the display shows "0". (If only the **Session** lamp goes out and the display remains blank, the Cool Down mode has been enabled and must time out. It is not possible to bypass the Cool Down cycle once it has begun. Cool Down time can be set only with the front-room-controller.)

Emulation Mode Control Features

Functions available in 3A® Emulation Mode

The following Control Features are available, and may be written to or read from using a front-room-controller. The only exception to this is the Permanent Session Counter which CANNOT be overwritten or erased. Follow the instructions for the front-room-controller.

Table 3

TanTime™ Control Feature Number	Description	Max Value	Default	Comment	3A® Equiv Parm #
1	Address	98	* 99	Station Number of timer	1
2	Delay Time	10	0	Start Delay in minutes for Stand-Alone Sessions	3
3	Resetable Sessions	65,535	0	Clearable session counter	5
4	Bulb Hours	65,535	0	Number of hours on bed lamps	6
5	Session Hours	65,535	0	Number of hours bed has been on	7
6	Stand-Alone Sessions	65,535	0	Number of hours bed has been operating in Stand-Alone	8
7	Clean Bed	1	0	0 = Clean Bed mode disabled 1 = Clean Bed mode enabled	9
8	Stand-Alone Lockout	1	** 0	0 = Stand-Alone enabled 1 = Stand-Alone disabled	10
9	Cool Down	10	0	Minutes for bed to cool after a session. (0-10 minutes)	13
10	Permanent Sessions	65,535	0	Non-Clearable session counter. (Read Only value)	15
11	Clean Clear	1	0	0 = Press and hold Up button for 4 seconds to clear 1 = Press and release will instantly clear	17
12	Pause Mode	1	0	0 = When session is paused timer will continue to count down 1 = When session is paused timer will stop counting down	21

* Valid room numbers are from 1 through 98. A value of 99 shown in the display indicates that the room number has not yet been assigned.

** When Stand-Alone Lockout is set to 1, the Timer cannot be operated in Stand-Alone, even in the event of a front-room-controller failure.



Manual Operation in Emulation Mode

Operating in Emulation Mode as a Stand-Alone Timer

Stand-Alone operation is provided to keep the tanning bed working when a functional front-room-controller is not available. All Emulation Mode Control Features shown in Table 3 apply to timer Stand-Alone operation, but only the Address, Clean Bed mode and Stand-Alone Delay Time may be changed without the use of a front end controller. Note that the Timer can not be used in Stand-Alone if the Lockout feature is enabled.

Beginning Emulation Stand-Alone Operation

Stand-Alone operation is initialized when the Timer is NOT connected to an operating front-room-controller, and power to the Timer is cycled off and then on.

Changing Address, Clean Bed and Stand- Alone Operation Delay Time Features Manually

While it is recommended that the address be set using the Auto Address mode of the front-room-controller, the address may be set manually using these instructions. The timer must be operating in Stand-Alone as described above and the timer must be idle, i.e., ready to use with the display showing "0" with both the **Delay** and **Session** lamps off. If the display does not show "0", use the **Set Time** button to show "0" on the display. Press and hold the **Start/Stop** button then press and hold the **Time Set** button. The Timer will show " _ _ " on the timer display. Continue holding both buttons until the **Delay** and **Session** lamps illuminate solid and the display shows a value between 01 and 99. Release both buttons. The value shown is the current address of the timer. (If the value is "99" The timer is waiting for an address to be set.)

Note: If the display shows "OL" the timer must be disconnected from the front-room-controller and power must be cycled off and on to operate the timer in Stand-Alone.

Note: If the display shows "LO" Lockout is enabled on the timer. The Timer must be connected to a working front end controller and lockout disabled. Contact TanTime for further information.

Setting the Address Manually

Press the **Set Time** button to advance the value to the address desired (01 through 98). If the displayed value is greater than the desired address, you must continue advancing through 99 and the display will return to 01. (There is no address "00".) When the desired address is displayed, press the **Start/Stop** button to lock in the address. The Clean Bed mode will now be displayed so proceed to the next paragraph.

Setting the Clean Bed Feature Manually

Having completed manually setting the address above, you are now prompted to set the clean bed feature. Pressing the **Set Time** button will toggle the display between "CY" (Clean Bed mode Yes [enabled]) and "Cn" (Clean Bed mode No [disabled]). Once the clean bed function is set press and release the **Start/Stop** button. The display will now show a value between "00" and "10". Proceed to the next paragraph.

Setting the Stand-Alone Operation Delay Time Manually

Having completed manually setting the Clean Bed feature above, you are now prompted to set the Delay Time. The display will now show a value between "00" and "10". This is the Delay time in minutes. To change the delay time, press the **Set Time** button to advance the displayed value (between 00 minutes and 10 minutes). If the displayed value is greater than desired, you must continue advancing through 10 and the display will return to "00". Press **Start/Stop** to lock in the desired Delay Time. The timer will save the settings and reset.

Note: The Stand-Alone Delay time applies only when the Timer is operating in Stand-Alone.

Manual Operation in Emulation Mode

Running a Session Manually

The timer must be idle, i.e., ready to use with the display showing "0" and neither the Delay or Session lights illuminated nor flashing. Press the **Set Time** button to advance the displayed value to the desired session time. If the displayed value is greater than desired, you must continue advancing through the maximum session time for your timer. (The maximum session time for your timer is programmed at the factory and may not be changed.) Once the desired session time is displayed, the session may be started by pressing the **Start/Stop** button.

Terminating a Delay Time Manually

Once a session has been started, if a Stand-Alone Delay time has been set, the display will now show the delay time and the Delay lamp will flash. The Delay time may be bypassed and session started by pressing the **Start/Stop** button.

The Session time will now be displayed, the Session lamp will flash slow, and the tanning bed will start.

Pausing a Session Manually

Press the **Start/Stop** (or remote Start/Stop button if provided) once to pause a session. Press the **Start/Stop** (or remote Start/Stop button if provided) again to resume a session.

Note: There must be a minimum of 4 seconds between button presses.

Canceling a Session Manually

When in Stand-Alone operation and the session has been paused for a minimum of four seconds as described above, the session may be terminated by pressing the **Set Time** button.

*Note: Canceling a session using the **Set Time** button is disabled while operating under a front-room-controller.*

Clearing a Clean Bed Alert

If the Clean Bed mode is enabled, when the session has been completed the display will be blank and both the **Delay** and **Session** lamps will illuminate. After cleaning the room for the next user, press and hold **Set Time** button or a remote **Start/Stop** if provided, until both the **Delay** and **Session** lamps go out and the display shows "0". (If only the **Session** lamp goes out and the display remains blank, the Cool Down mode has been enabled and must time out. It is not possible to bypass the Cool Down cycle once it has begun. The Cool Down feature may only be changed when the Timer is connected to a front-room-controller.)

Support

The Company

Since 1994, TanTime™, a Division of Electronic Programming and Design, Inc. Has been developing and manufacturing enhanced digital timer systems for the indoor tanning industry.

TanTime™ continually accesses the most innovative design technology available incorporating state of the art technology in all it's Products. As an industry leader, TanTime™ updates and adds new products to it's growing line of digital timers and strives for complete customer satisfaction by providing a quality product and unsurpassed customer support.

Support

TanTime™ Dedication

TanTime™ is dedicated to ensuring that you receive the best customer support and technical assistance possible. To ensure that you receive the most efficient help possible, please be ready to produce model numbers of the TanTime™ equipment in concern and product part numbers. For repairs and returns please be prepared to produce date of purchase, name of original purchaser, and PO Number. An RMA is required for all returns including both repairs and return-for-credit equipment returns.

Contact Us

Telephone: Call TanTime™ / EPaD™ at **206-767-7262** Pacific Time M-F 9 AM to 5 PM, PST

Email: TanTime™ Technical Support: **info@tantime.com**

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NOTE:

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