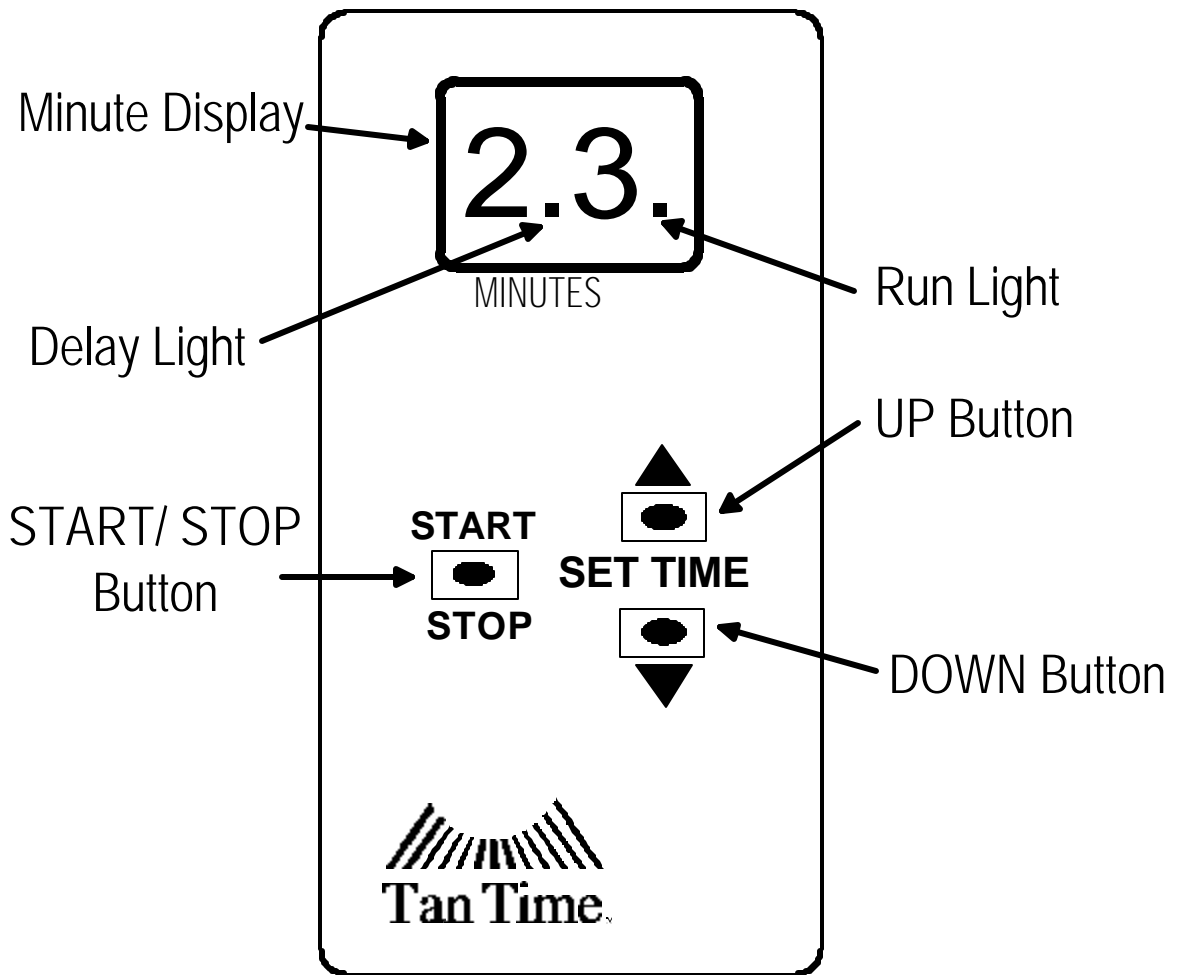




TT-1, TT-5, TT-10
Version 6.1 & 7.0
Instruction Manual



Enhanced Digital Timer Systems

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MANUFACTURERS WARRANTY

This product is warranted to be free of manufacturing defects for the lifetime of the product. This product is warranted against normal wear and tear for one year from date of purchase. This warranty does not include damage to the product resulting from accident, misuse, improper installation or operation, or unauthorized repair or alteration. If the product should become defective within the warranty period, we will repair or replace it free of charge at our option. Replacement product supplied under this warranty may be new or rebuilt at our option. The consumer's sole remedy shall be such repair or replacement as is expressly provided above, and we shall in no event be liable for any incidental or consequential damages arising out of the use or inability to use this product for any purpose whatsoever.

The Timer(s) should be installed by a qualified electrician.



Timer Operating Instructions

Introduction

The Tan Time Timer has many features which are not obvious at first glance. We hope you take the time to read this instruction set. Every attempt has been made to make this timer easy to use. If you have trouble using the timer or setting the functions please refer to the examples and troubleshooting section of this instruction set.

Power Up / Reset

When the timer is turned on or reset the timer will first display the software version number, the absolute maximum time allowed by the timer and then the Line frequency in Hz and concludes with the number 00 being displayed.

Example: Displayed

6.1	Software version
30	Absolute maximum time
60	Line frequency in Hz
00	Timer is ready to use

Entering Session Time

To set the desired Session Time push either the Up ▲ or Down ▼ SET TIME button on the timer, the time of the last session ran will appear on the display. Pushing the Up ▲ SET TIME button will increase the session time in increments of one minute. Pushing the Down ▼ SET TIME button will decrease the session time in increments of one minute. Release the button when the desired time is displayed.

NOTE ç If the Option 4, Computer Only feature on your timer is set to ON the SET TIME buttons on the timer will be disabled and you may only set session time from your computer (to set Option 4 - Computer Only Operation see page 7).

NOTE ç The Session Time can not exceed the Session Limit. (See Instructions for setting the Session Limit on page 6)

NOTE ç The time will be cleared if the session is not started within 10 minutes. This is a safety feature and may not be bypassed.

Starting a Session / With Pre Start Delay

Once your session time is entered if the timer has a Pre Start Delay time set to more than zero , pushing the START/STOP button on the timer will start the programmed Pre Start Delay (to set the Pre Start Delay time see instructions on page 6) this will be indicated by the Delay Light (Middle Period) blinking and the display will show the delay time remaining in increments of minutes being displayed to the left of the period and tenths (1/10) of a minute

being displayed to the right of the period. The timer will count down in one tenth of a minute increments which is equal to six seconds. When the remaining Pre Start Delay time reaches 0.0 the display will then show the session time remaining in minutes and the session time will start counting down. The bed may or may not come on depending upon how Option 1, Session Start Preference is set.

If Option 1 is ON:

If Option 1, Session Start Preference is set to ON the Run Light (right period) will be on steady and the bed will be OFF.

If Option 1 is OFF:

If Option 1, Session Start Preference is set to OFF the Run Light (right period) will be blinking and the bed will be ON

(to set Option 1 - Session Start Preference see instructions on page 7).

Example: 1.6 Displayed with the middle period blinking

In Pre Start Delay count down and the delay time left is one minute and thirty six seconds and counting down.

NOTE ç On some tanning equipment it could be necessary to set and start the bed timer on the bed as well as the TT-1 timer in order to run a session. The bed timer should be set to a time equal to or greater than the session time set on the TT-1 timer.

NOTE ç Holding the Down ▼ SET TIME button during the Pre Start Delay count down will fast forward the delay in increments of one tenth of a minute.

NOTE ç Pushing the timers START/STOP button during the Pre Start Delay count down will start the session and turn on the bed.

NOTE ç Pushing the Remote START/STOP Switch in the room during the Pre Start Delay count down will start the session and turn on the bed.

Starting a Session / No Pre Start Delay

Once your session time is entered, if the timer has a Pre Start Delay set to zero, pushing the START/STOP button on the timer or the START/STOP switch in the room will start the session (to set the Pre Start Delay see instructions on page 6). The display will then show the session time remaining in minutes. The bed may or may not come on depending upon how Option 1, Session Start Preference is set.

If Option 1 is ON:

If the Session Start Preference, Option 1 is set to ON and the session was started by pushing the START/STOP button on the timer the Run Light (right period) will be on steady and the sun bed will be OFF. The remaining session time on the timer will be counting down in increments of one minute whether the bed is on or not. Pushing the Remote START/STOP switch in the room will turn the bed ON.

If Option 1 - Session Start Preference is set to ON and the session was started by pushing the Remote START/STOP switch in the room the Run Light (right period) will be on blinking and the bed will be ON. The remaining session time on the timer will be counting down in increments of one minute.

If Option 1 is OFF:

If Option 1 - Session Start Preference is set to OFF and the session was started by either pushing the START/STOP button on the timer or the START/STOP switch in the room the Run Light (right period) will be blinking and the sun bed will be ON. The remaining session time on the timer will be counting down in increments of one minute.

(to set the Option 1 - Session Start Preference see instructions on page 7).

NOTE ç On some tanning equipment it could be necessary to set and start the bed timer on the bed as well as the TT-1 timer in order to run a session. The bed timer should be set to a time equal to or greater than the session time set on the TT-1 timer.

NOTE ç Holding the Down ▼ SET TIME Button after the session has started will fast forward the session in increments of one minute.

NOTE ç Pushing the timers START/STOP button after the session has started will Pause the Session.

NOTE ç The Timer may not be paused from the Remote START/STOP Switch in the room. If the sun bed is ON pushing the Remote START/STOP switch in the room will clear the timer and turn off the bed. This is a safety feature and may not be bypassed.

Pausing or Canceling a Session

Once a session has started and the session time is counting down the session may be stopped or paused at any time by pushing the START/STOP button on the timer once (push the button twice if the timer is in Pre Start Delay count down, the first push will start the session and the second push will pause the session). The Minute Display will show the remaining time left and the numbers will be blinking when paused. The session may be resumed by again pushing the START/STOP button on the timer or canceled and cleared by pushing either the SET TIME Up ▲ or SET TIME Down ▼ button on the timer when paused.

NOTE ç The Timer may NOT be paused from the Remote START/STOP Switch in the room. If the sun bed is ON pushing the Remote START/STOP switch in the room will clear the timer and turn off the bed. This is a safety feature and may not be bypassed.

NOTE ç If the session is paused longer than FIVE minutes the session will be canceled and the Timer will be reset. This is a safety feature and may not be bypassed.

Clean Room Indicator (Option 2)

If the Clean Room Indicator is turned ON, after each session the display will show the number 8 blinking from side to side. This can be cleared by pushing the Remote START/STOP switch in the room or the START/STOP button on the Timer. This indicator will remain ON until cleared and you must clear the indicator before starting a new session. (for instructions on setting Option 2 - Clean Room Indicator see page 7)

End of Session

At the end of a session, (complete cycle of timer) the display will show a single zero and no light will be blinking. The timer is now ready to enter session time and start a new session.

Cooldown Option

If your timer is equipped with the Cooldown Option (HVA-3-CD), which allows the bed to cooldown after a session has ended, the bed fan will continue running for approximately three minutes after the session has ended.

Stop Event Alarm (Option 3)

If Option 3, Stop Event Alarm is turned ON, when a user stops a session by pushing the Remote START/STOP switch in the room the timer display will blink between 00 and .. until cleared by pushing the START/STOP button on the timer. If the timer is equipped with a piezo alarm buzzer the timer will also sound an alarm until cleared. You must clear the indicator before starting a new session (to set Option 3 - Stop Event Alarm see page 7).

Computer Only Operation (Option 4)

You must have a TTIO-5 Interface Box option to use the TT-1 timer with a computer. If you require information on obtaining a TTIO-5 Interface Box contact your Tan Time™ Distributor or the Tan Time™ Manufacturer, Electronic Programming and Design, Seattle Washington. Use this option if you wish to only use a computer to control the timer and you want to prevent anyone from bypassing the computer and setting session time directly with the timer. Turning this option ON will disable the SET TIME buttons and function setting abilities of the timer. You must first turn this option OFF if you wish to set any other functions. The START/STOP button on the timer can still be used while this option is ON. (to set Option 4 - Computer Only Operation see page 7)

Timer Operation

F Examples and Explanations F

Minute Display Not Blinking, Run Light (right period) and Delay Light (middle period) OFF:

The Timer is ready to start. The time displayed will be the session time.

Delay Light (middle period) is Blinking:

Timer is in Pre-Start Delay. Minute Display shows Pre-Start Delay time left in minutes and tenths of minutes.

Example: Minute Display shows 1.3 and Delay Light (middle period) is blinking.

Explanation: The timer is in Prestart Delay and the time left is one minute and eighteen seconds.

Run Light (right period) is Blinking:

Timer is running. The Minute Display shows time remaining for that session in minutes.

Example: Minute Display shows 16. and the Run Light is Blinking.

Explanation: The Tanning Bed is ON and 16 Minutes remain for this Session.

Run Light (right period) is on Steady:

Timer is running. The Minute Display shows time remaining for that session in minutes.

Even though the sun bed is OFF the session time is still counting down.

Example: Minute Display shows 22. and the Run Light is on steady.

Explanation: The sun bed is OFF, 22 minutes remain for this session and the session time is counting down.

Minute Display is Blinking On and Off showing the same number:

The timer is stopped/paused. The Minute Display shows the time remaining for the session in minutes.

Example: Minute Display shows 12 and the 12 is Blinking.

Explanation: Session is Paused with 12 Minutes remaining for this Session.

Minute Display is Blinking On and Off showing different numbers:

The timer is displaying the Session and Hour meters. Once the timer has finished displaying the meters it will be ready for a new session. See instructions for Reading the Meters on page 9 and Clearing the Meters on page 10.

Minute Display is showing the number 8 blinking from side to side:

The Clean Bed indicator is On and indicating that the session is over and the sun bed has NOT been cleaned and prepared for a new session. Once the bed has been cleaned pushing either the START/STOP button on the timer or the Remote START/STOP switch in the room will clear the indicator.

Both the Delay Light (middle period) and the Run Light (right period) are blinking On and Off when the timer is idle:

The Bulb Life Meter has counted down to zero. The timer is indicating that the bulb hours entered into the timer at a previous date have run down to zero and the bed's bulbs should be changed. This has no effect on the operation of the timer. This indicator may be cleared by resetting the Bulb Life Meter. (for instructions on setting the Bulb Life Meter see page 10)

The Display is Blinking rapidly and showing 00 and .. back and forth:

This is the Stop Event Alarm. The timer has been stopped by a user having pushed the remote START/STOP switch in the room. To clear this alarm push the START/STOP button on the timer.



Setting Functions, Reading & Clearing Meters

NOTE: The timer must be idle, not being used, to set these functions. For TT-5 and TT-10 timers you must set functions on each timer channel individually.

Setting the Pre Start Delay and Session Limit

Pre Start Delay

The Pre Start Delay is a useful feature. It enables you to set the session time and start the timer, giving the user a pre determined amount of time to prepare for the tanning session. If the user exceeds the preparation time the timer will start the session and the bed may or may not come on automatically depending upon how Option 1, Session Start Preference, is set (for instructions on setting Option 1 - Session Start Preference see page 8). Once the Pre Start Delay is set it will be the same for all future sessions until reset. The session may be started anytime before the Pre Start Delay time is up by pushing the Remote START/STOP switch in the room, or by pushing the START/STOP button on the timer. Pre Start Delay time is displayed in minutes to the left of the decimal and tenths (1/10) of a minute increments (which equals 6 seconds) to the right of the decimal.

Example: If you wanted to start the timer and have a 3 minute and 30 second delay before the session time starts counting down you would set 3.5 as the Pre Start Delay time.

Session Limit

The Session Limit allows you to determine the Maximum exposure time allowed on the sun bed connected to the timer. The Session Limit may not be set above the Absolute Maximum Time allowed by the timer. The Absolute Maximum can be determined by the last number in the model number on the rear of the timer, for example a model number XXDT-5-20 would have an Absolute Maximum Time of 20 minutes.

INSTRUCTIONS:

The Pre Start Delay and Session Limit are set together, follow the entire procedure through the last step to complete the programming.

- f*1 Unplug or turn off the timer.
- f*2 Wait 30 seconds.
- f*3 While holding down the UP ▲ SET TIME button turn on the timer.
- f*4 Release the UP ▲ SET TIME button, the Delay Light (middle period) should be on if it is not start the procedure at step one.

- f*5 Use the UP ▲ and DOWN ▼ SET TIME buttons to set the *Pre Start Delay*. The time is in increments of tenths (1/10) of a minute or 6 seconds, a three minute and thirty six second delay would read 3.6 on the Minute Display. If no pre start delay is desired set the time to .0 When you have set the desired *Pre Start Delay* push the START/STOP button on the timer.
- f*6 The Run Light (right period) should now be on, if not start the procedure at step one. Use the UP ▲ and DOWN ▼ SET TIME buttons to set the Session Limit (the session limit may not exceed the absolute maximum time allowed by the timer). When you have set the desired Session Limit time press the START/STOP button on the timer.
- f*7 The timer will display a single 0 and is now ready to use.
- f*8 END OF PROCEDURE.

Setting Options 1 through 4

Option 1 - Session Start Preference

This option enables you to control how the timer will start the sun bed. If Option 1 is OFF the sun bed will turn on immediately once the Pre Start Delay counts down or the session is started by a computer. If Option 1 is ON then the sun bed will NOT turn on after the immediately once the Pre Start Delay counts down or the session is started by a computer but will wait until the START/STOP button is pushed on the timer or the Remote START/STOP switch is pushed in the room.

Option 2 - Clean Room Indicator

This option controls the Clean Room Indicator. Turn this Option ON if you want to use the Clean Room Indicator. If this Option is ON, after each session the display will show the number 8 blinking from side to side on the minute display. This indicates the sunbed has been used and is ready to be cleaned. Once the sunbed has been cleaned the display can be cleared by pushing either the START/STOP button on the timer or by pushing the Remote START/STOP switch in the room. The display must be cleared before time may be entered for a new session.

Option 3 - Stop Event Alarm

The Stop Event Alarm if turned ON will alert you if for any reason the Remote START/STOP switch in the room is pushed turning off the sunbed during a session. When a user stops a session using the Remote START/STOP switch in the room the timer minute display will blink between 00 and .. Until cleared by pushing the START/STOP button on the timer.

Option 4 - Computer Only Operation

You must have a TTIO-5 Interface Box option to use the TT-1 timer with a computer. If you require information on obtaining a TTIO-5 Interface Box contact your Tan Time™ Distributor or the Tan Time™ Manufacturer, Electronic Programming and Design, Seattle Washington.

Turn ON Option 4 if you are using a computer to control the timer and do not want anyone to bypass using the computer for setting time on the timer. Turning ON this Option will disable the SET TIME buttons on the timer. You will be able to set time on the timer ONLY by using the computer. The timers START/STOP button can still be used. WARNING: setting this function to ON will not allow you to set any other functions, if you want to change other functions or settings you must turn this option OFF first.

INSTRUCTIONS:

- f*1 Unplug or turn off the timer.
- f*2 Wait 30 seconds.
- f*3 While holding down the START/STOP button on the timer turn the timer on.
- f*4 Release the button, the display should show 12 meaning you are in the Option 1 and 2 programming mode if not restart procedure at step one. (the Delay and Run lights may be ON or OFF).
- f*5 To turn ON **Option 1 - Session Start Preference** (No start on delay countdown) push the UP ▲ SET TIME button until the Delay Light (middle period) is ON. Pushing the UP ▲ SET TIME button will turn the Delay Light (middle period) ON and OFF.
- f*6 To turn ON **Option 2 - Clean Room Indicator** push the DOWN ▼ SET TIME button until the Run Light (right period) is ON. Pushing the DOWN ▼ SET TIME button will turn the Run Light (right period) ON and OFF.
- f*7 When Options 1 and 2 have been set as desired push the START/STOP button on the timer. The display will change to 34 meaning you are in the Option 3 and 4 programming mode. (the Delay and Run lights may be ON or OFF).
- f*8 To turn on **Option 3 - Stop Event Alarm** push the UP ▲ SET TIME button until the Delay Light (middle period) is ON which means that Option 3 is ON. Pushing the UP ▲ SET TIME button will turn the Delay Light (middle period) ON and OFF. When the Delay Light (middle period) is OFF that means that Option 3 is OFF.
- f*9 To turn ON **Option 4 - Computer Only Operation** push the DOWN ▼ SET TIME button until the Run Light (right period) is ON. Pushing the DOWN ▼ SET TIME button will turn the Run Light ON and OFF.
- f*10 When Options 3 and 4 have been set as desired push the START/STOP button on the timer.
- f*11 The display will show the version number then 00. The timer is now ready to operate.
- f*12 END OF PROCEDURE

Permanent and Resettable Session and Hour Meters

Reading the Meters

Permanent Session and Hour Meters

The Permanent Session Meter records the total number of sessions that have ever been started on the timer. The Permanent Hour Meter records the total number of session hours and minutes that have ever been run on the timer. These meters are a permanent record and can not be reset.

Resettable Session and Hour Meters

The resettable Session Meter records the number of sessions started since the meter was last cleared. The resettable Hour Meter records the session hours and minutes that have been run on the timer since the meter was last cleared.

INSTRUCTIONS:

- f*1 Press and hold the UP ▲ SET TIME button.

- f*2 While still holding the UP ▲ SET TIME button press and hold the Down ▼ SET TIME button.
- f*3 Hold the buttons down until the display goes blank then release the buttons.
- f*4 When a number is displayed on the Minute Display (even if the number is 00) write it in the first two blanks on the Meter Log Sheet.
- f*5 Wait until the display goes blank again and a new number is displayed write it in the next two blanks on the Meter Log Sheet. Repeat this step thirteen times.
- f*6 When the timer is done displaying numbers refer to the Meter Log Sheet numbers that you have written to check the number of Sessions started, Number of Session Hours Run and the usable Bulb Life remaining.
- f*7 END OF PROCEDURE.

Example: Meter Log Sheet

(a full page meter log sheet was included with your timer, copy it freely for future use)

Permanant Meter	Resettable Meter	Bulb Meter																			
Sessions Hours Min.	Sessions Hours Min.	Life left	Date																		
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Clearing the Resettable Session and Hour Meters

INSTRUCTIONS:

- f*1 Press and hold all three buttons in this order.
- f*2 Press and Hold the UP ▲ SET TIME button.
- f*3 Press and Hold the START/STOP button.
- f*4 Press and Hold the DOWN ▼ SET TIME button.
- f*5 Hold down all three buttons until the display goes blank (about four seconds). If the display does not go blank or starts displaying the Meters, Unplug or turn off the timer and restart the procedure or wait for the timer to finish displaying the Meters then restart the procedure again.
- f*6 Release all three buttons. The timer will display 00 and is now ready to operate.
- f*7 END OF PROCEDURE.

Setting and Clearing the Bulb Life Meter

Bulb Life Meter

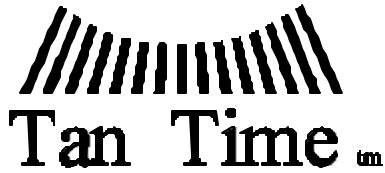
The Bulb Life Meter is used to monitor usable lamp life for the sunbed the timer is attached to. For the Bulb Life Meter to function lamp life hours must be entered into the timer (Check with your bulb manufacturer for the recommended usable lamp life hours for your bulbs). The best time to enter lamp life hours is when you relamp the bed. The life is entered in 10s of hours, for example to set a life of 750 hours you would enter 7.5. on the display when setting the Bulb Life Meter. If you do not desire to use the Bulb Life Meter do not set the function, it is pre set at the factory for 0.0. this disables the Bulb Life Meter.

Bulb Life Meter Alarm

If you have entered time in the Bulb Life Meter you may monitor life left by reading the Meters (for instructions on Reading the Meters see page 8). When the Bulb Life Meter reaches 0.0 this indicates the bulbs should be changed. The timer will indicate this by blinking both the Delay Light (middle period) and the Run Light (right period) at the same time when the timer is idle. You may use the timer in the normal fashion when the alarm is on. The alarm can be cleared by setting the Bulb Life Meter.

INSTRUCTIONS:

- f*1 Unplug or turn off the timer.
- f*2 Wait 30 seconds.
- f*3 While holding down the DOWN ▼ SET TIME button turn on the timer.
- f*4 Release the DOWN ▼ SET TIME button. Both the Delay Light (middle period) and the Run Light (right period) should be on, if not restart the procedure at step one.
- f*5 Use the UP ▲ and DOWN ▼ SET TIME buttons to set the Bulb Life Meter for the expected usable life of the lamps installed in the sun bed. The Bulb Life Meter is set in increments of 10 minutes, for example a life of 750 hours would read 7.5. on the Minute Display. To clear and disable the Bulb Life Meter set the time to 0.0. When you have set the desired time press the START/STOP button on the timer.
- f*6 The timer will display 00 and is now ready to use.
- f*7 END OF PROCEDURE.



Installation and Trouble Shooting

F Troubleshooting F *** During Installation ***

The session starts on the timer the HVA-3 clicks and the HVA-3 red led is lit but the bed does not come on; Possible Reasons;

1. The timer on the bed has not been set and is not on.
2. The bed is not wired correctly. Contact a qualified electrician for assistance.
3. The HVA-3 was hooked up incorrectly and the internal fuse has blown. Contact a qualified electrician to check the fuse and replace if necessary.

The timer comes on but the HVA-3 does not click when turned on; Possible Reason;

1. The connector inside the HVA-3 RJ-11 Control Wire Inlet was damaged during installation when the hookup wire was inserted. Check the contacts inside the connector to make sure they are not touching each other.

When the hookup wire (phone cord) is plugged into the timer and connected to the HVA-3 RJ-11 Control Wire Inlet, the timer will not function, but the timer works when the hookup wire is unplugged from the timer; Possible Reasons;

1. The wire supplied with the timer was changed or shortened and the plug reversed. Refer to the HVA-3 installation sheet for proper hookup wire configuration.
2. The remote START/STOP button wire is shorted together. If the button is not used leave the two ends unconnected and wrap each with electrical tape.

F Troubleshooting F

*** AFTER INSTALLATION ***

The timer works OK but the timer runs twice as fast as it should; Possible Reasons;

1. The hookup wire is run next to a power cable or in conduit with other power cables. Reposition the hookup wire away from other cables.
2. There is interference from the power plug of the timer. Move the power plug to another power outlet.

You cannot set time on the timer, it stays on zero or you cannot set the time as high as needed; Possible Reason;

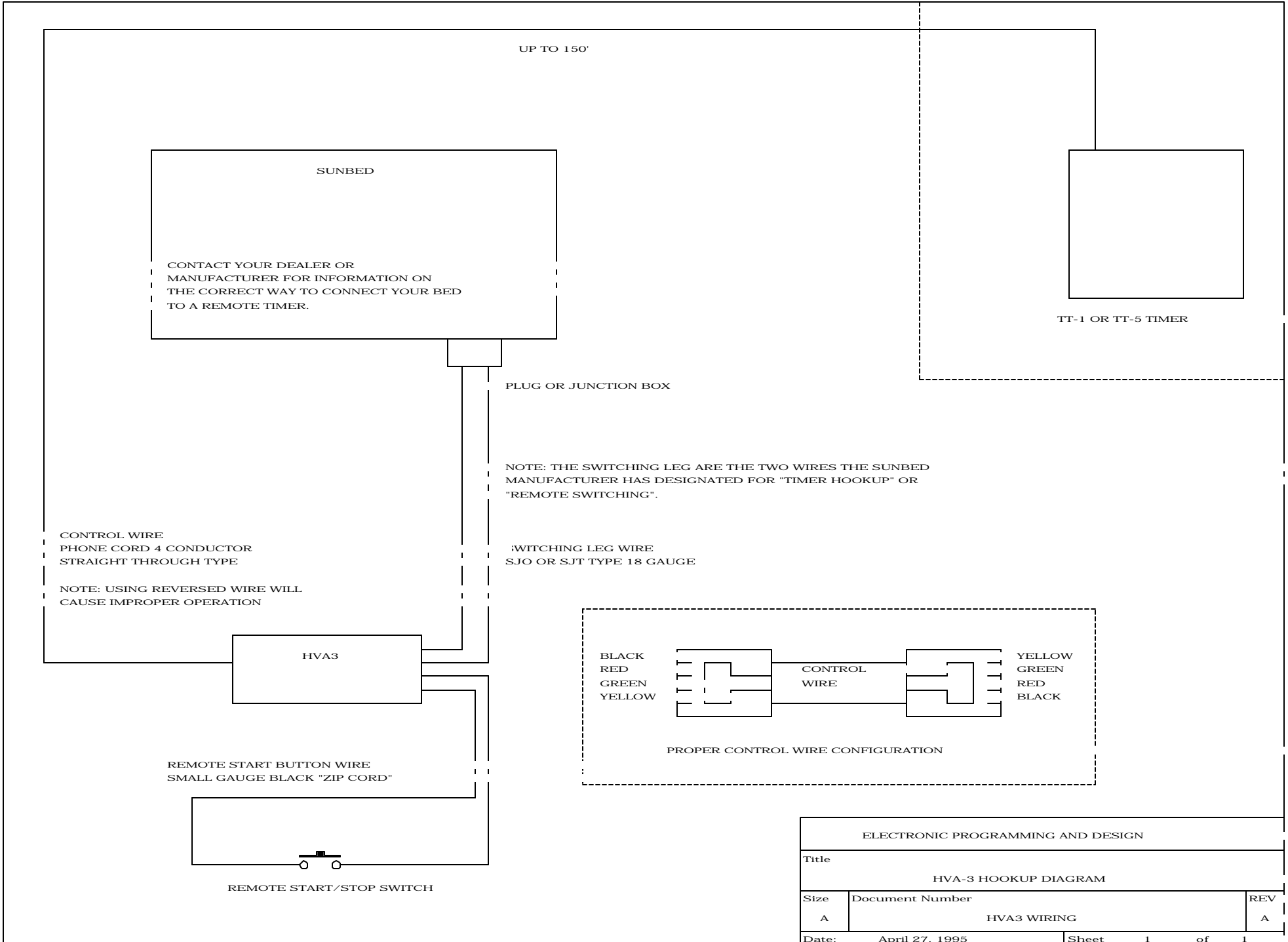
1. The Session Limit is not set (for instructions on setting the Session Limit see page 6).

You cannot set time on the timer, when you push the button the display goes blank for one second then comes back on; Possible Reason;

1. The timer is set up to allow time to be set from a computer only (Option 4 - Computer Only Operation is ON). Refer to the software manual for the salon software you are using or turn Option 4 OFF if you are not running with computer only (for instructions on setting Option 4 - Computer Only Operation see page 7).

The timer is blinking the number 8 from side to side; Possible Reason;

1. The Clean Room Indicator, Option 2 is ON telling you that the session has ended and the room is waiting to be cleaned before the next session. Press the START/STOP button on the timer or the START/STOP switch in the room to clear the indicator or turn the Clean Room Indicator, Option 2 OFF if you do not want to use this feature (for instructions on setting Option 2 - Clean Room Indicator see page 7).



ELECTRONIC PROGRAMMING AND DESIGN			
Title			
HVA-3 HOOKUP DIAGRAM			
Size	Document Number		REV
A	HVA3 WIRING		A
Date:	April 27, 1995	Sheet	1 of 1



Enhanced Digital Timer Systems

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