



## USER'S MANUAL FOR TANAMERICA

MATRIX Solarix X2

Model No. **X DLD**

Serial No.: \_\_\_\_\_

Date Purchased: \_\_\_\_\_

Write the serial number in the space above for future reference.

### Questions?

As a custom manufacturer, we are committed to providing complete customer satisfaction. If you have questions, or find that there are missing or damaged parts, we offer you complete satisfaction through direct assistance from our factory.

**To avoid unnecessary delays, please call direct to our toll-free customer Service Hotline (800) 231-8907. Our trained technicians will provide immediate assistance, free of charge to you.**

**Caution:**

Read all precautions and instructions in this manual before using this equipment.



## Indoor Sun Systems, Inc.

11151 Trade Center Drive  
Rancho Cordova, CA 95670  
(800)350-2826  
[www.tanamerica.com](http://www.tanamerica.com)

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# BEFORE YOU BEGIN

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Thank you for selecting the **HIGH PRESSURE Solarix X2** unit. This unit is designed to help you achieve the specific results you want. For your benefit, read this manual carefully before operating the **Solarix X2** unit.

If you have additional questions, please feel free to contact your Sales Representative or our Customer Service Department, toll-free at **(800) 231-8907**. To help us assist you, please note the product model and serial number before calling.

## IMPORTANT PRECAUTIONS

**WARNING:** *TO REDUCE THE RISK OF SERIOUS INJURY, READ THE FOLLOWING BEFORE OPERATING THIS UNIT.*

1. Read all instructions in this manual before operating the unit.
2. Use the unit only as described in this manual.
3. It is the responsibility of the owner to ensure that all users of this unit are adequately informed of all precautions.
4. Use the unit only on a level surface.
5. Inspect and tighten all parts regularly; replace any worn parts immediately.
6. **MANUFACTURER'S LABEL PLACEMENT:** the location of the applied label is shown on the following page. If the label is missing, or if it is not legible, please call our **CUSTOMER SERVICE DEPARTMENT**, toll-free, at **(800) 231-8907**, Monday through Friday, 7:30 am until 4:30 pm (pacific time), to get a replacement label. Apply the replacement label to the location shown.

**WARNING:** *ISS, INC., DBA TANAMERICA ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE SUSTAINED BY OR THROUGH THE USE OF THIS PRODUCT*

# MANUFACTURING LABEL LOCATIONS

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## Solarix X2 Manufacturing Label Location



# WARNINGS & CAUTIONS

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**DANGER – ULTRAVIOLET RADIATION.** Follow instructions. Avoid overexposure. As with natural sunlight, overexposure can cause eye and skin injury and allergic reactions. Repeated exposure may cause premature aging of the skin and skin cancer. **WEAR PROTECTIVE EYEWEAR: FAILURE TO MAY RESULT IN SEVERE BURNS OR LONG TERM INJURY TO THE EYES.** Medications or cosmetics may increase your sensitivity to the ultraviolet radiation. Consult physician before using sunlamp if you are using medication or have a history of skin problems or believe yourself especially sensitive to sunlight. If you do not tan in the sun, you are unlikely to tan from the use of this product.

This Unit Utilizes UVA / UVB Lamps ~ See Exposure Schedule for Replacement Lamp Types

Depending upon skin types, noticeable results occur after 1 or 2 sessions and a favorable tan is experienced after 4 – 6 sessions. Your tan can be maintained with 1 – 2 sessions per week, depending upon your skin type.

**MINIMUM USE DISTANCE:** Lie on acrylic surface. The use of any other position may result in overexposure.

An appearance of tanning normally appears after a few exposures and maximizes after four (4) weeks of exposure following the recommended schedule for your skin type.

Use protective eyewear, whenever the equipment is energized. Read the instruction booklet before using this unit.

Instructions accompanying this product should always be followed to avoid or minimize potential injury.

This product is in conformity with performance standards for sunlamp products under 21 CFR Part 1040.20

# WARNINGS & CAUTIONS

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## EXPOSURE TIMES & FREQUENCIES

**WARNING!**      *THIS UNIT USES UVA / UVB LAMPS.*

*SEE THE FOLLOWING LISTING FOR REPLACEMENT LAMP TYPES:*

**FACIALS:**      

**CANOPY:**      

**BENCH:**      

This product is in conformity with performance standards for sun lamp products under 21 CFR 1040.20

## EXPOSURE SCHEDULE FOR 12 MINUTE OPTION

Skin Type	WEEK 1 1 <sup>st</sup> - 3 <sup>rd</sup> Sessions	WEEK 2 4 <sup>th</sup> - 6 <sup>th</sup> Sessions	WEEK 3 7 <sup>th</sup> - 9 <sup>th</sup> Sessions	WEEK 4 10 <sup>th</sup> - 12 <sup>th</sup> Sessions	WEEK 5 Subsequent Sessions
I. Very Fair	<i>We Do Not Recommend Tanning For This Skin Type</i>				
II. Fair	3	6	9	10	12
III. Medium	3	6	10	12	12
IV. Dark	3	9	12	12	12
V. Very Dark	3	9	12	12	12

## MAXIMUM EXPOSURE TIME IS 12 MINUTES!

Depending upon skin types, noticeable results occur after 1 or 2 sessions and a favorable tan is experienced after 4 - 6 sessions. Your tan can be maintained with 1 - 2 sessions per week depending on your skin type.

**Read the instruction booklet before using this unit.**

# WARNINGS & CAUTIONS

## EXPOSURE SCHEDULE FOR 15 MINUTE OPTION

Skin Type	WEEK 1 1 <sup>st</sup> - 3 <sup>rd</sup> Sessions	WEEK 2 4 <sup>th</sup> - 6 <sup>th</sup> Sessions	WEEK 3 7 <sup>th</sup> - 9 <sup>th</sup> Sessions	WEEK 4 10 <sup>th</sup> - 12 <sup>th</sup> Sessions	WEEK 5 Subsequent Sessions
I. Very Fair	<i>We Do Not Recommend Tanning For This Skin Type</i>				
II. Fair	3	5	10	15	15
III. Medium	5	10	15	15	15
IV. Dark	5	10	15	15	15
V. Very Dark	5	10	15	15	15

### MAXIMUM EXPOSURE TIME IS 15 MINUTES!

Depending upon skin types, noticeable results occur after 1 or 2 sessions and a favorable tan is experienced after 4 - 6 sessions. Your tan can be maintained with 1 - 2 sessions per week depending on your skin type.

## EXPOSURE SCHEDULE FOR 10 MINUTE OPTION

Skin Type	WEEK 1 1 <sup>st</sup> - 3 <sup>rd</sup> Sessions	WEEK 2 4 <sup>th</sup> - 6 <sup>th</sup> Sessions	WEEK 3 7 <sup>th</sup> - 9 <sup>th</sup> Sessions	WEEK 4 10 <sup>th</sup> - 12 <sup>th</sup> Sessions	WEEK 5 Subsequent Sessions
I. Very Fair	<i>We Do Not Recommend Tanning For This Skin Type</i>				
II. Fair	3	4	7	10	10
III. Medium	4	7	10	10	10
IV. Dark	4	7	10	10	10
V. Very Dark	4	7	10	10	10

### MAXIMUM EXPOSURE TIME IS 10 MINUTES!

Depending upon skin types, noticeable results occur after 1 or 2 sessions and a favorable tan is experienced after 4 - 6 sessions. Your tan can be maintained with 1 - 2 sessions per week depending on your skin type.

# WARNINGS & CAUTIONS

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## EXPOSURE INFORMATION

### **MELANIN:**

The brownish pigment produced by special cells in the base layer of your skin determines the individual's tan. As the skin is exposed to the ultraviolet light, the melanin is activated and combines with protein cells that rise to the skin's surface, thus producing a tan. The amount of melanin in your body determines how quickly and dark you tan. The more melanin produced and exposure time an individual has, the faster and deeper the individual will tan.

**NOTE: The tan produced by the tanning unit is a deep, rich "Cosmetic" tan. However, regardless of how dark an individual may tan on this system, it will not provide adequate protection against overexposure to natural sunlight or UVB tanning systems.**

### **SKIN TYPE II:**

This is the individual who usually burns easily and severely, tans minimally or lightly and peels. The recommended exposure times are designed for the slow build-up to a maximum melanin release.

### **SKIN TYPE III:**

Often referred to as "Average" complexion, burns moderately and tans about average.

### **SKIN TYPE IV:**

This individual burns minimally, tans easily and above average with each exposure and exhibits immediate pigment darkening reaction (PDR).

### **SKIN TYPE V:**

This individual rarely burns, tans easily and substantially and always exhibits immediate pigment darkening reaction (PDR).

No two individual skin tones are the same. A tan to one person may be different to another and session length may vary.

It is recommended that you use skin care products specially designed for indoor tanning during tanning sessions. Equally important – many facial make-ups have oil bases and should be removed prior to a session. It is recommended that, following a tanning session, a skin moisturizer be applied. This promotes a smoother, more even looking tan.



## WARNINGS AND CAUTIONS

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Certain drugs - particularly those designed to produce photosensitivity – may cause individuals under the influence of this type of drug to experience adverse effects and those people should avoid exposure to UV sources of all kinds. Doctors will advise persons taking these drugs of possible adverse effects.

It is recommended that only one person at a time use the tanning unit while in use, and advised that protective eyewear be used during the tanning session. One pair of goggles is provided with each tanning unit sold.

***WARNING: IF YOU HAVE BEEN DIAGNOSED BY A PHYSICIAN AS BEING ALLERGIC TO THE SUN OR ARE CURRENTLY TAKING PHOTSENSITIVE MEDICATIONS, CONSULT YOUR PHYSICIAN BEFORE USING THE SYSTEM.***

Occasionally, persons using the tanning unit will experience a slight reddening of the skin - usually in small patches - after the second or third session. The redness is often accompanied by an itching sensation. This is nothing more than a heat “rash” caused by heat from the lamps within the unit. It will go away within approximately (24) hours and should not reappear.

***CAUTION: While there is no immediate clinical evidence regarding UVA exposure and its effects upon expectant mothers, it is strongly advised that expectant mothers be discouraged from using the tanning unit.***

# EQUIPMENT SPECIFICATIONS

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## TANAMERICA SOLARIX X2

**HEIGHT: 71”**                      **WEIGHT: 1,950 LBS (APPROXIMATE)**  
**DEPTH: 60”**                      **# OF LAMPS: 33 {(6) 1,000 WATT & (27) 620 WATT}**  
**WIDTH: 92”**                      **Recommended Room Size: 10 x 10**  
**Ventilation requirement approximately 1500 CFM**

### Electrical Requirements:

- ~ 230 VAC +/- 10 VAC / 3 Phase / 4-Wire (3 Hot, 1 Ground)
- ~ Running Amp Draw                      (69 Amps)
- ~ Total absorbed power                      (25.4 kW)
- ~ 80 Amp Circuit Breaker recommended

Additional Requirements: 110 VAC outlet required in tanning rooms where Remote Timer Systems are being utilized.

**Industry Rule of Thumb** is to allocate 3 tons of air for this unit  
Consult with your local HVAC specialist.

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This Unit Utilizes UVA / UVB Lamps ~ See Exposure Schedule for Replacement Lamp Types.

Depending upon skin types, noticeable results occur after 1 or 2 sessions and a favorable tan is experienced after 4 – 6 sessions. Your tan can be maintained with 1 – 2 sessions per week, depending upon your skin type.

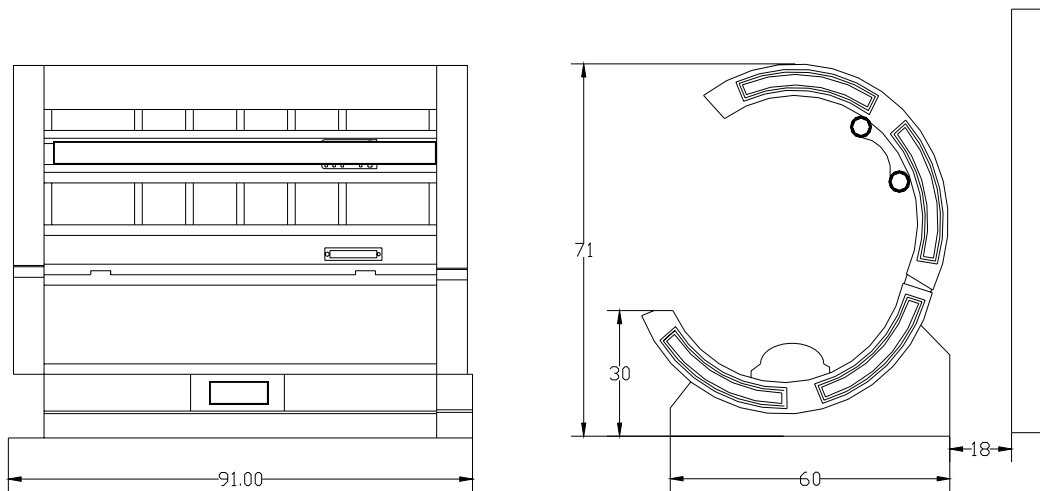
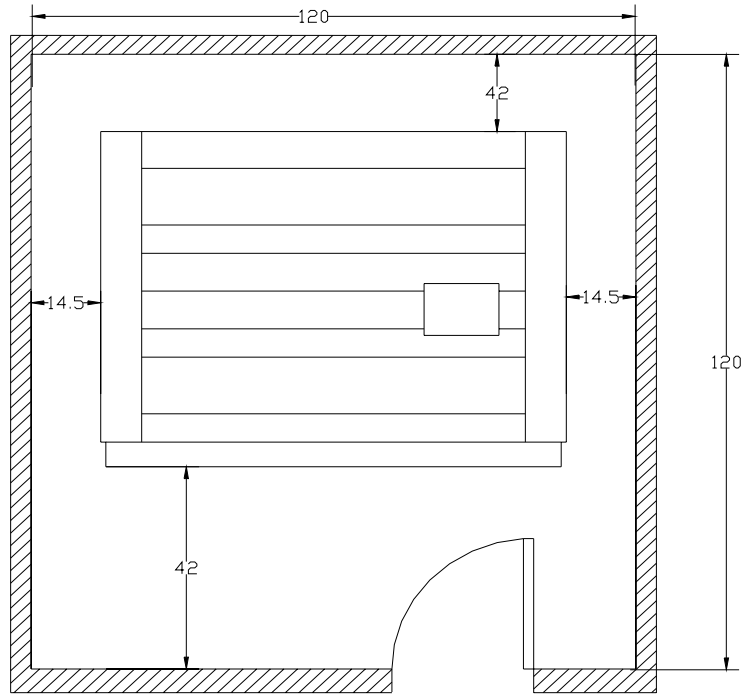
**MINIMUM USE DISTANCE:** Lie on acrylic surface. The use of any other position may result in overexposure.

An appearance of tanning normally appears after a few exposures and maximizes after four (4) weeks of exposure following the recommended schedule for your skin type.

Use protective eyewear, whenever the equipment is energized. Read the instruction booklet before using this unit.

# EQUIPMENT SPECIFICATIONS

## Solarix X2 Overall Dimensions



(ALLOW 18 INCHES FROM THE BACK OF THE MACHINE TO THE WALL)

# Solarix X2

## Graphic Description

Lamp Panels

Air shower



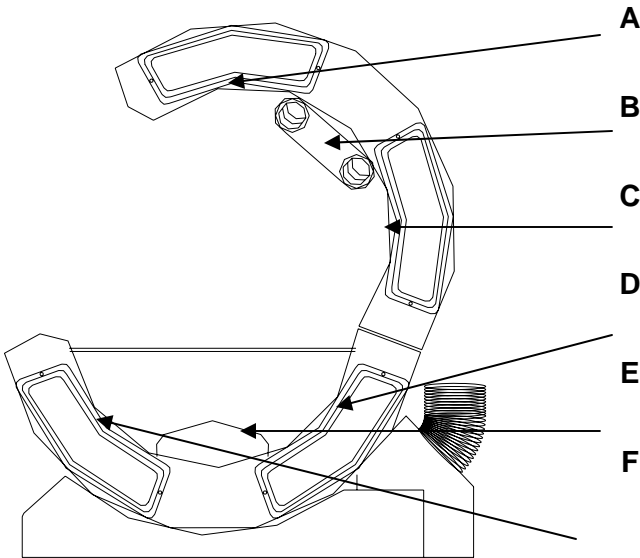
# EQUIPMENT SPECIFICATIONS

## LAMP CONFIGURATION

Model	No. x Watt	Type - Position	Filters	Total # of Lamps	Lamp Power (kW)	Total power absorbed from mains supply (kW)
Solarix X2	6 X 1000	Matrix Elite– Facial lamps	Solarix	6	6	25.3
	12 X 620	(Canopy)	Solarix	12	7.44	
	15 X 620	(Bench)	Solarix	15	9.3	

### LAMP LAYOUT INSIDE THE TANNING BED

L33



BODY FACE	BODY
A	D
6	23
5	22
4	21
3	20
2	19
1	
B	E
12	28
11	27
10	26
9	25
8	24
7	
C	F
18	33
17	32
16	31
15	30
14	29
13	
CANOPY	BENCH



\*= The ballasts are identified with a number corresponding to its lamp location identifier.  
 L1—L6 1000 Watt Matrix Elite Facial Lamps  
 Lamps No.'s 1, 2, 7, 8, 13, & 14 (1000 Watt Lamps.)  
 Lamps No.'s 3, 4, 5, 6, 9, 11, 12, & 15-33 (620 Watt Lamps.)

# OPERATING INSTRUCTIONS

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## CONTROL PANEL

The control panel has a 4-figure LED display and the following buttons for operating the unit

- ◆ (START)
- ◆ (STOP)
- ◆ Increase session time & Increase Air 
- ◆ Decrease session time & Decrease Air 

## CONTROL PANEL BUTTON FUNCTIONS:

### START

Press the **(Start)** button to start the session.

### STOP

When the **(Stop)** button is pressed for two seconds, the tanning session is interrupted, and all end-of-session functions are started. The **(Stop)** button must be used only if it becomes necessary to interrupt the session before the available time has terminated.



Before starting the session, use UP arrow to increase session time.

After starting the tanning bed, use UP arrow to increase the desired airflow on the face and body. The ventilation range is from 0 to 5, and it is adjusted by either repeatedly pressing the button, or by holding it down. This operation can also be performed during the period of delayed ventilation.



adjusted

Before starting the session, use DOWN arrow to decrease session time.

After starting the tanning bed, use the DOWN button to decrease the desired airflow on the face and body. The ventilation range is from 0 to 5, and it is by either repeatedly pressing the button, or by holding it down. This operation can also be performed during the period of delayed ventilation.

### EMERGENCY STOP BUTTON

The emergency button must be used *only in case of extreme necessity*. The emergency button immediately shuts down the power supply to the unit, thereby preventing normal end-of-session functions from being completed. This may cause damage to components such as lamps, electronic circuit boards, etc.

# PROGRAMMING AND TIMER OPERATION

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This unit utilizes an OEM timer board that provides excellent reliability and versatility. The maximum times are dependent on the exposure option selected. The maximum time is not programmable – it is hard-coded into the timer chip. Please contact TanAmerica if you would like to have an maximum exposure time different than the one provided with your unit.

## OVERVIEW

A T-Max® 004 Timer is an OEM board that can be installed in a tanning bed or tanning booth. Each T-Max® 004 Timer can individually control a tanning bed, can be connected back-to-back with a T-Max® 1A or T-Max® 3A for remote front desk control or be connected with many T-Max® 004 Timers and a T-Max® Manager or T-Max® Manager/Plus to control many beds from a remote location. Operation is accomplished via front panel controls.

## SETTING PARAMETERS

**Note:** If you are using a T-Max® Manager or T-Max® Manager/Plus and multiple T-Max® 004 Timers, remove power from the T-Max® Manager or T-Max® Manager/Plus and keep the power removed until all parameter changes are complete.

1) Press and hold the Start/Stop and the Up buttons simultaneously on the T-Max® 004 Timer. As soon as you see a “.1” on the display release the buttons. This should take about 5-6 seconds.

This is an indication that you are in the parameter mode. The numbers currently displayed represents the parameter number that you can observe or change.

2) Press the Up and Down Buttons until the parameter number that you want to observe or change is displayed.

3) Press the Start/Stop Button. The current value for that parameter will be displayed and flashing.

The T-Max® 004 Timer will show a number with a period illuminated in the lower center of the display. The flashing number shown is the current value for that parameter.

For Lamp, Session Counts, etc. the value displayed can be as high as 9999. To display this value, the T-Max® 004 Timer will flash two numbers-three times, then two numbers-three times, pause, two numbers-three times, two numbers-three times, pause, etc. For example, if you are checking lamp hours (Parameter 6) and the display flashes the numbers 53 three times, then 14 three times, pauses then repeats, then the total lamp hours stored in that T-Max® 004 Timer is 5314.

4) Press the Up and Down buttons to change the parameter to the desired value.

If you want to clear the value for that parameter, press the Up and Down buttons at the same time until the display shows 0.0.

5) Press the Start/Stop Button.

The display will show the parameter number you just changed and a solid period in the lower center of the display. You may now change another parameter by pressing the Up and Down buttons until the parameter that you want to change is displayed. Repeat Steps 2-4 for each parameter you want to change.

6) To exit the Parameter mode and make the T-Max® 004 Timer available for the next session, press and hold the both up and down buttons until the display shows a 0 with no periods displayed.

# PROGRAMMING AND TIMER OPERATION

## SETTING THE ADDRESS

**Note:** If you are using the T-Max® 004 Timer as an independent timer, you don't need to set the address on the T-Max® 004 Timer.

- 1) Press and hold the Start/Stop and Up buttons simultaneously on the T-Max® 004 Timer until a .1 appears on the display. Release the buttons. This should take about 5-6 seconds.
- 2) Press and release the Start/Stop button. A number will appear on the display and be flashing. A period will be illuminated in the center of the display.

Pressing and holding the Up button will cause the display to count up. Once the count reaches 100, the center period will flash rapidly. This is an indication that you are over 99. For example, if the display shows a 0.2 with the period flashing, this is address 102. The highest the display will count up is 254.

- 3) Press the Up and Down buttons until the desired address is displayed. When setting the address, remember 3 rules:

A) Set each T-Max® 004 Timer to a unique address. B) Do not set any address to 0. C) Do not set any address over 100.

- 4) Press the Start/Stop button. The “.1” will appear on the display. The 1 will not be flashing.
- 5) To exit, press and hold both the Up and Down buttons until the display shows a 0 with no periods displayed.

Param.	Description	Max	Default	Notes
<i>Salon Level</i>				
1	Address	255	254	Address of T-Max®3A/F/I
2	Beep Mode	1	0	Used for High Power beds. 0=Alarm only, 1=Alarm and Flip
3	Delay Time	5	0	Delay in minutes stored in the T-Max®3A/F/I.
4	Current Sense	1	0	For the T-Max® Sentry™ Option. 0=Disabled, 1=Enabled.
5	Session Counts	65535	0	Total session counts for T-Max®3A/F/Is.
6	Lamp Hours	65535	0	Bulb hours for each bed.
7	Bed Hours	65535	0	Number of hours a bed is on.
8	Manual Session Counts	65535	0	Counts the number of sessions the T-Max®3A/F/I has run while in Stand Alone Mode
9	Clean Room	1	1	0 = Clean Room Disabled, 1 = Enabled
10*	Manual Lockout	1	0	0 = Stand Alone Enabled, 1 = Disabled
13	Cool Down Mode	10	0	0 = Disabled, 1-10=Enabled. Time delay in minutes allowing bed to cool.
15	Fixed Session Counts	65535	0	Counts number of sessions ran through the T-Max®3A/F/I. This value cannot be changed at all. Used as point of reference.
17	Clean Clear	1	0	0 = Press and hold the Up button for 3-4 seconds to clear the clean room. 1 = Press and release the Up button to clear instantly
19*	Third Part Interface (TPI) Mode.	1	0	When set to a 1, voltage must be applied by an outside source to the TPI input on the back of the T-Max® 004 Timer. Used is the timer is being controlled by either a FST® or Database® Series Timer. See Section 6.5 for JP1 settings.
20	External Speaker	1	0	0 = Speaker on T-Max®3A/F/I, 1 = External Speaker will be used.
21	Pause Mode	1	0	0 = When session is pause, session time continues to count down. 1 = When session is paused, session time stops counting down.



# PROGRAMMING AND TIMER OPERATION

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## SETTING DELAY TIME.

If the T-Max® 004 Timer is being controlled by a T-Max® 1A, T-Max® 3A, T-Max® Manager or T-Max® Manager/Plus, the delay does not need to be set on the T-Max® 004 Timer. The controlling device controls the delay.

- 1) Press and hold the Start/Stop and Up buttons simultaneously the T-Max® 004 Timer until a “.1” appears on the display. Release the buttons. This should take about 5-6 seconds.
- 2) Press the Up and Down Button until a “.3” is displayed (Parameter 3 ids for delay. See Table 1).
- 3) Press and release the Start/Stop button.

A number will appear on the display and be flashing. A period will be illuminated in the center of the display. This is the current delay time.

- 4) Press the Up and Down Button until the desired delay time is displayed.

The highest delay time that can be set on the T-Max® 004 Timer is 10 minutes. If you want no delay time, set the display to 0. If you set the Delay Time to 0, the session time will start immediately after the Start/Stop button is pressed.

- 5) Press the Start/Stop button. The “.3” will appear on the display. The 3 will not be flashing.
- 6) To exit, press and hold both the Up and Down buttons until the display shows a “0” with no periods displayed.

## IN-ROOM SINGLE BED CONTROL

### STARTING A SESSION

- 1) Press the Up and Down Button on the T-Max® 004 Timer until the desired session time is displayed. If the display shows a 0, and you want to count down from the maximum time, press the down button.
- 2) Press and release the Start/Stop button to start the session.

If a delay other than 0 is entered the delay will count down. A period on the lower right corner of the display will flash rapidly. When the session starts, the period will flash at a once per second rate. If the delay is set to 0, the session will start immediately.

### PAUSING A SESSION

Press the Start/Stop button to pause the session. The flashing period on the lower right corner of the display will stop flashing and stay illuminated. To restart the session, press the Start/Stop button on the T-Max® 004 Timer. The period on the lower right corner of the display will resume flashing.

**Note:** The session time will continue to count down. The display will continue to update and reflect the remaining session time.

### CANCELING A SESSION.

Press the Start/Stop button to pause the session, then press the Up button. This will cancel the session. The display will show a solitary 0.

# PROGRAMMING AND TIMER OPERATION

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## REMOTE SINGLE BED CONTROL

Remote Single Bed Control is the ability to control a single tanning bed from a remote location. A T-Max® 1A or T-Max 3A is required at the remote location for this configuration.

### WIRING

Wire the T-Max® 004 Timer to the tanning bed as described in Section 2.1. Apply power to the T-Max® 3A as described in their respective User's Guides.

Run the provided modular cable from the tanning room to the remote T-Max® 3A or T-Max® 1A. Connect the modular cable to one of the RJ-22 ports on the T-Max® 004 Timer and T-Max® 1A or T-Max 3A (it does not matter which port the cable is connected to).

### CONFIGURATION

Set the address on the T-Max® 004 Timer in the tanning room to 1 as described in Section 2.2.2. Set the address on the T-Max® 3A to 0.0 as described in the T-Max® 3A user's guide. For setting the delay refer to the T-Max® 3A User's guide.

**Note:** When setting the address on the T-Max® 004 Timer in the tanning room, the power to the front desk T-Max® 1A or 3A must be off.

### SESSION CONTROL

#### Starting a session

1) Press the Up and Down Button on the T-Max®3A or the Set button on the T-Max® 1A at the front desk until the session time is displayed. Time cannot be set from the T-Max® 004 Timer in the room.

2) Press the Start/Stop button on the front desk T-Max®1A or T-Max® 3A to start the session.

If a delay other than 0 is set, the delay will count down. A period on the lower right corner of the display will flash rapidly. When the session starts, the period will flash at once per second rate. If a 0 delay entered, the session will start immediately.

#### Pausing During the Session

To pause the session press the Start/Stop button on the T-Max® 004 Timer in the tanning room. The flashing period on the lower right corner of the display will stop flashing and stay illuminated. To restart the session, press the Start/Stop button on the T-Max® 004 Timer in the tanning room. The period will continue flashing.

**Note:** The session time will continue to count down. The display will continue to update and reflect the remaining session time.

#### Canceling a Session

To cancel a session, press both the Start/Stop and Up button on the T-Max® 3A at the front desk simultaneously. If you are using a T-Max® 1A, press the Start/Stop and Set buttons simultaneously. The session cannot be canceled from the T-Max® 004 Timer.

# PROGRAMMING AND TIMER OPERATION

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## USING THE T-MAX® 004 TIMER WITH A T-MAX® MANAGER OR T-MAX® MANAGER/PLUS

If you are using T-Max® 004 Timers with a T-Max® Manager or T-Max® Manager/Plus, follow these instructions for proper operation:

**1) Set the address on each T-Max® 004 Timer as described in section 2.2.1.**

**Note:** If this is a first time installation, go through the quick installation procedure in Section 2 of the T-Max® Manager or T-Max® Manager/Plus User's guides. This will automatically set the address on the T-Max® 004 Timers and you will not need to set the addresses manually as described in the following steps. If you need to set the address on the T-Max® 004 Timer manually, be sure to set each T-Max® 004 Timer to a different address. No T-Max® 004 Timer should be set to address 00.

**2) Connect each T-Max® 004 Timer together using a modular cable that conforms to the pinouts shown on Figure D. Connect T-Max® Manager or T-Max® Manager/Plus to the closest T-Max® 004 Timer in the line (Refer to Figure D).**

**Note:** Delay is controlled by the T-Max® Manager, the T-Max® Manager/Plus or the software you are using if you are using a computer. It is not necessary to set the delay on the T-Max® 004 Timer. Refer to the T-Max® Manager or T-Max® Manager/Plus User's Guide for operation.

## OTHER FEATURES

### CLEAN ROOM

Once the session time has elapsed, the display will show two solid periods only. This is an indication that the room needs to be cleaned. To clear the clean room indication, press and hold the Up button on the T-Max® 004 Timer in the tanning room until the two periods disappear and a "0" appears. To disable the clean room feature, set parameter 9 to a 0. (Refer to Section 2.2)

### LAMP HOURS

To check and change Lamp Hours (or any other parameter), refer to Section 2.2.

### MAXIMUM TIMES

Maximum times are programmed into the T-Max® 004 Timers at the factory. Setting a parameter cannot change the maximum times.

If you need to change the maximum time on a T-Max® 004 Timer, a PIC16C73-20 chip can be purchased with any maximum time you desire (up to 99 minutes) programmed into them. This chip is located on the back of the T-Max® 004 Timer (Refer to Figure B). Consult your dealer for this chip.

# PROGRAMMING AND TIMER OPERATION

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## TPI (THIRD PARTY INPUT) MODE

If you are using a FST® or Database® Series timers, you will need to place the T-Max® 004 Timer in the TPI mode.

### CONNECTING THE TPI INPUT

Set Parameter 19 to a 1 (Refer to Section 2.2)

Connect the two actuator wires from the FST® or Database® timer to the TPI input in the back of the T-Max® 004 Timer (refer to Figure B).

When a session is started the FST® timer will place 5V on these two wires. If you are using a Database® Series Timer, 24 volts will be applied.

If you are using a Database® Series timer, remove Jumper JP1. If you are using an FST® Series timer, leave this jumper on.

### CONNECTING THE TPI OUTPUT

#### FST®:

There are three wires coming from the FST Series Timer. Two are the actuator wires connected to the Signal input. Connect the third wire to one of the Switch terminals. Make sure J6 and J7 are on and J4 and J5 are off.

Run a jumper from the black Actuator wire connected to the other Switch screw terminal.

#### Database®:

There are 4 wires coming from the Database Series Timer. Two are the actuator wires connected to the TPI input. Connect the two other wires to the TPI relay output terminal J1. Make sure J6, J4 and J5 are off and J7 is on.

#### Contact Closure

If your external timer is simply a relay contact closure, make sure J4, J6 and J5 are on and J7 is off.

*Important: J4, J5 and J7 should never be on at the same time!!!*

## OPERATION

When a session is started, voltage will be applied to the TPI input. The display on the T-Max® 004 Timer will show the maximum time and count down. When the session ends, the voltage will be removed from the TPI input and bed will turn off. Any remaining session time showing on the T-Max® 004 Timer will be canceled.

**Note:** The T-Max® 004 Timer cannot be used as a stand alone time in the TPI mode.

If the FST® or Database® Series timers are in delay the T-Max® 004 Timer will show a 0. However, pressing the Start/Stop button on the T-Max® 004 Timer will cancel the remaining delay time and start the session. Pressing the Start/Stop button on the T-Max® 004 Timer will also clear the clean room indication on the FST® and Database® timers.

# PROGRAMMING AND TIMER OPERATION

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## COOL DOWN MODE

**Cool down mode is the time the bed needs to cool down after a session has ended. The Factory default setting is 3 minutes.**

**Connect the wires that control the fans to the headers on the back of the T-Max® 004 Timer as described in Section 2.1.**

**Set parameter 13 to the desired cool down time as described in section 2.2.**

**After a session has ended the display will show a single period in the middle of the display. The period will remain until the cool down time has elapsed. The display will then show a 0.**

**Note:** If both cool down time and clean room are enabled, the clean room will be displayed. If the clean room indication is cleared before the cool down time has expired, then the cool down indication will be displayed. If the cool down time has elapsed before the clean room indication has been cleared, the clean room indication will remain until it is cleared.

# CARE AND MAINTENANCE

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## Replacements:

**Acrylics**—It is recommended to replace the acrylic every 1,200 hours of operation. If impairment is noted earlier than this, check the correct operation of the ventilation system and the conditions of filters or glass panels.

**Lamps**—It is recommended to replace all the tanning lamps after about 400 hours of operation, using only original equipment replacements.

These maintenance operations must be carried out by technicians trained and authorized by TanAmerica.

## Cleaning:

### CAUTION!

**SWITCH OFF POWER TO THE TANNING UNIT BEFORE CLEANING AND/OR DISINFECTING THE MACHINE.**

**Glass Filters-** The glass filters must be cleaned periodically about every 30 hours of operation with water or glass cleaner. During cleaning, it is essential to take the greatest care to avoid touching the lamps with your bare hands. If this does occur, clean the lamps touched with a cloth soaked in denatured ethyl alcohol.

Take great care to avoid mixing up the filters, and ensure that filters are correctly repositioned, preventing white light from escaping.

**Acrylics & plastic-** Clean the main acrylic with an approved acrylic cleaner/disinfectant. The protective acrylics of the lamp panels, and the thermoformed plastic components of the tanning bed, can be cleaned with mild soap and water.

***DO NOT USE ALCOHOL BASED PRODUCTS***

**Air filters -** There are five air filters at the head end of the unit that must be cleaned once every two weeks (more often during periods of heavy use or in dusty environments). Use compressed air or vacuum to remove dirt. **Do not wash in water!**

# CARE AND MAINTENANCE

<b>MAINTENANCE PROCEDURES</b>	
<b>1</b>	Every day: check that the cooling fans function properly, that they expel air at a constant rate and that no abnormal noises are evident..
<b>2</b>	Before every session: check the glass filters for possible damage, ensuring that no white light escapes. If the glass is damaged, or white light is visible, switch off the unit at once and immediately contact TanAmerica for the replacement of the broken filter. <b>DO NOT OPERATE THE UNIT WITH A BROKEN FILTER GLASS!</b>
<b>3</b>	Warn the user not to obstruct ventilation grills with objects and/or clothes.
<b>4</b>	At the end of the session, allow the tanning unit to complete the ventilation cycle for cooling of the lamps, this lasts 3–4 minutes depending on the model. The tanning bed is fitted with a timer for residual ventilation. Should this ventilation cycle fail to be activated, contact the technician authorized by <b>TanAmerica</b> .
<b>5</b>	Do not touch the blue filters or the lamps themselves with bare hands. If contact with bare hands occurs, the filters and lamps must be carefully cleaned with alcohol, spraying it onto a cloth and then wiping only the external surface of the blue filter.
<b>6</b>	Every two weeks: clean intake air filters.
<b>7</b>	The external protection acrylic panels can be cleaned with mild soap and water or approved acrylic cleaner. They must <b>NEVER</b> be cleaned with alcohol-based products.
<b>8</b>	<b>DO NOT</b> look directly at any type of white light given off by the tanning unit or from one of its openings.
<b>9</b>	Periodically (at least quarterly): Lubricate and grease the mechanical components that are part of the movement mechanisms. Access can be easily obtained to those parts by removing rear covers.
<b>IMPORTANT</b>	
It is advisable to replace the acrylic every 1200 hours of operation. If problems are noted earlier than this, check the operation of the ventilation system and the conditions of filters or glass panels. It is advisable to replace the tanning lamps after about 400 hours of operation.	

# ASSEMBLY INSTRUCTIONS

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- 1) Position the C-Channel support frames, 71" apart. Fix the back cover in place to ensure the stability of the C-Channels

**Note: Ensure that the floor is able to support the weight of the unit and is perfectly level.**

- 2) Place the exhaust fan and acrylic fan assemblies behind the unit and bolt them to the back cover
- 3) Install exhaust hose onto exhaust fan assembly, and run hose up through ceiling
- 4) Install C bank, taking care to insert the wire harness through the corresponding opening in the C-Channel, and connect to C-Channel harness
- 5) Install D bank in the same manner
- 6) Install radio housing and connect harness
- 7) Install B bank
- 8) Install the rear portion of the middle cover
- 9) Install E bank
- 10) Place Ballast and Control trays into position, connect harnesses
- 11) Place two ballast tray covers into position
- 12) Install the front portion of middle cover
- 13) Install A bank
- 14) Install F bank
- 15) Install front cover, hooking up lighting harness
- 16) Install air tubes
- 17) Install handle, hooking up lighting harness
- 18) Install main body acrylic and acrylic support shocks
- 19) Install rear spring covers
- 20) Install air intake filter covers and filters
- 21) Complete all electrical connections (**main power must be connected by a licensed electrician**). Install buck and boost transformer if necessary to correct incoming voltage.
- 22) Test unit for proper function before allowing anyone to tan!!



# GENERAL TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
White light escaping from Filters	Broken filter Filter not correctly positioned	Replace filter (*) Check correct filter position.
Display off Unit off	Power failure Blown fuse	Check secondary and main switches. Change fuse.
Decrease in tanning power  Lamp does not tan	Deposits and/or dust on filters, glass or acrylic Lamps/tubes too old  Air intake filters dirty	Clean parts as instructed. Check that number of operating hours on lamps/tubes is not over the recommended duration. Clean or replace.
One or more lamps off	Blown fuse One or more broken lamps Ignitor malfunction Loose terminals	Change fuse (*) Replace lamps (*) Replace ignitor (*) Check cable connections(*)
Premature aging of acrylic	Defect or malfunction of lamp ventilation fans Broken filter Filter not correctly positioned Air intake filters dirty	Check that air intakes are unobstructed (*); Replace broken filter (*); Check correct filter position. Clean or replace.
Main switch trips	Electrical system overload	Contact technician.
Radio malfunction	Poor reception	Adjust antennae
Control panel malfunction	Incorrect operation or panel defect	Carry out reset procedures (see specific instructions)
Filter Indication	Broken Filter or defective serigraph Filter not in right position with respect to the electrical contact	Substitution filter (*); Verify if the filter is in right position
Fan Alarm	Disconnected supply connector of ventilation Broken Fuse of vent Protection supply defective	Re-assemble connector (*); Substitution fuse (*); Substitution card. (*);
Thermal Alarm	Fan Blocking Obstruction of exhaust channel Obstruction inlet channel Air intake filters dirty	Verify supply voltage (*); Clear air channels (*); Verify cleanliness for air filters (*); Clean or replace.

(\*) Operations marked with an asterisk must be performed only by technicians trained and authorized by TanAmerica.

If the remedial action taken fails to rectify the problem, contact your technician.

# LIMITED WARRANTY

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**TanAmerica** warrants its tanning units to be free from structural defects in materials and workmanship under intended normal use, for a period of 3 years. This Limited Warranty applies only to the original purchaser of the equipment through **TanAmerica** or its authorized dealer or distributor, and is not transferable.

**TanAmerica's** obligations under this warranty are limited to repair or replacement of any defective part for the original purchaser, with the following exceptions:

- ◆ Lamps are warranted based upon manufacturer's warranty. The warranty on lamps does not cover physical damage or breakage due to causes beyond the control of the lamp manufacturer or **TanAmerica**.
- ◆ TanAmerica warrants its acrylic sheets to be free from defects in material and workmanship, under intended normal use, for a period of one (1) year from date of sale of the tanning unit. Due to the tanning lotions, cosmetics, perspiration, disinfectant and improper cleaners used on tanning surfaces that cannot be controlled by **TanAmerica**, acrylic(s) will be subject to a prorated cost to the consumer for breakage and crazing. **TanAmerica's** obligations do not include packaging or transportation charges on replacement acrylic. **TanAmerica** assumes no liability for the cost of removing defective sheets or installing replacement sheets, or for damages to persons or property, or indirect, incidental or consequential damages.

**NOTE: Do not use ammonia, alcohol-based products or detergent on the acrylic or exterior skin. Use mild soap and water only!!! Failure to do so will void your warranty.**

- ◆ Some states do not allow excluding or limiting incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which may vary, from state to state.
- ◆ To make a claim, contact an authorized dealer or distributor of TanAmerica or TanAmerica's Service Department at (800) 231-8907. Be sure to have your model number, serial number, and date of purchase on the unit in which the acrylic will be used.
- ◆ Damage resulting from the purchaser's negligence, lack of maintenance or use contrary to published instructions is specifically excluded from warranty coverage. Tanning equipment must be placed in an area that conforms to **TanAmerica's** published space, electrical and environmental requirements. Any **TanAmerica** equipment must not be altered or serviced by anyone other than an authorized **TanAmerica** service representative. Service records may be required before claim is processed.
- ◆ Only OEM parts obtained through TanAmerica, its authorized dealers or distributors may be used. Use of any other parts will void warranty and may affect product liability insurance. **TanAmerica** will cover ground transportation costs for warranty parts shipped to the customer. Return costs of defective parts to **TanAmerica** are not included. Adequate packaging must be used for returned goods to prevent freight damage.

# LIMITED WARRANTY

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- ◆ **TanAmerica** will reimburse labor charges for the first ninety (90) days after date of purchase. All labor and related charges **must be** authorized by **TanAmerica** prior to the start of repairs, and must coincide with **TanAmerica's** established rates and time allotment policy. After such period, all labor charges will be the responsibility of the purchaser. Freight and other transportation charges are the responsibility of the purchaser.
- ◆ The **STRUCTURAL FRAME** of the unit is warranted, under normal use, for **three (3) years**. All **MAIN COMPONENTS** are warranted for a period of **three (3) years** and **ELECTRICAL** is warranted for **one (1) year** from the date of purchase.

***NOTE: The most common problems are caused by lack of adequate airflow or improper incoming voltage. Without the correct airflow, the lamps will overheat, causing premature failures and color changes. Incorrect wiring or voltage may cause damage to components.***

- ◆ This warranty is extended to the individual or legal entity whose name appears on the original sales document and may not be transferred to any other individual or legal entity.
- ◆ This warranty does not apply to any failure of the product, or failure of any parts of the product due to alterations, modifications, misuse, abuse, accident, improper maintenance, improper installation, acts of God or if the serial number on the product has been removed, altered or defaced.
- ◆ **THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESSED OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY.**
- ◆ **THE REMEDIES PROVIDED IN THIS LIMITED WARRANTY ARE THE EXCLUSIVE REMEDIES PROVIDED TO THE PURCHASER BY TANAMERICA AND ARE PROVIDED IN SUBSTITUTION OF ALL OTHER REMEDIES. CONSEQUENTIAL AND INCIDENTAL DAMAGES ARE EXCLUDED.**

**NOTE:** **TanAmerica's** obligations are limited to the replacement and transportation of parts to the customer. Any & all return freight of defective parts is the customer's responsibility.

## RADIO WARRANTY

The radio is covered with a one (1) year warranty offered by the radio manufacturer (i.e. Pioneer or JVC). The warranty registration card is included with the radio's owner's manual. **TanAmerica** does not offer separate warranty coverage on the radio.

# WARRANTY CLAIM PROCEDURES

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## PLEASE READ CAREFULLY, PRIOR TO CALLING

Prior to filing a Warranty Claim, please consult the troubleshooting guide located in this manual.

The majority of issues that customers experience are usually remedied by following the instructions in the guide. If you still are having trouble, please follow the procedures outlined below.

1. Locate serial number and model number of unit under warranty. Please see the diagram in your manual for label location.
2. Please be prepared to provide proof of purchase, in the form of a paid receipt/invoice, copy of canceled check or credit card statement.
3. Identify and prepare to explain to the best of your ability the problem you are experiencing with the unit.
4. Call our **SERVICE DEPARTMENT** at **(800) 231-8907** or **(916) 638-6886** and notify them of your specific concern.
5. Upon identifying the problem, our Service Department will determine a course of action designed to return your tanning unit to working order.
6. If it is determined that a defective part needs to be replaced, **TanAmerica** will ship the replacement part to the customer, COD or pre-paid by credit card. **TanAmerica** will cover ground freight within the 48 contiguous states only, for defective or warranty parts. Any other type of shipping will be charged to the customer.
7. There will be a Return Merchandise Authorization (**RMA**) number enclosed with your packing slip accompanying your replacement parts. You will receive an **RMA** label to be attached to the outside of the box(s) for return to **TanAmerica** for identification by **TanAmerica**.
8. All defective parts must be returned to TanAmerica with the completed warranty claim form and **RMA** number so that the Service Department can process them efficiently. In addition, when filing a warranty claim for labor, a detailed bill for work done must also be submitted with the stated return. Labor charges must be pre-approved by a **TanAmerica** technician.
9. All returned parts are subject to inspections by a qualified **TanAmerica** technician. The technician will test and evaluate the returned parts for an authorized determination. If a returned part has a low frequency failure rate, it is essential to make a note that indicates the specific character of the defect.
10. When a returned part is determined defective, an authorization is made to credit the cost of the defective part. If the part returned to **TanAmerica** proves to be operational and not defective, or if the product code numbers on the part do not correspond with the individual unit date on file with **TanAmerica**, then a 30% restocking fee will be charged in addition to the retail purchase price of the replacement part.

**ACKNOWLEDGEMENT OF THE AGREEMENT IS NOT REQUIRED FOR ACCEPTANCE OF THE FOREGOING STIPULATIONS.**