



**USER'S MANUAL FOR  
TANAMERICA/ISO ITALIA  
MATRIX L33**

**MODEL NO. MATRIX L33**

**SERIAL NO.** \_\_\_\_\_

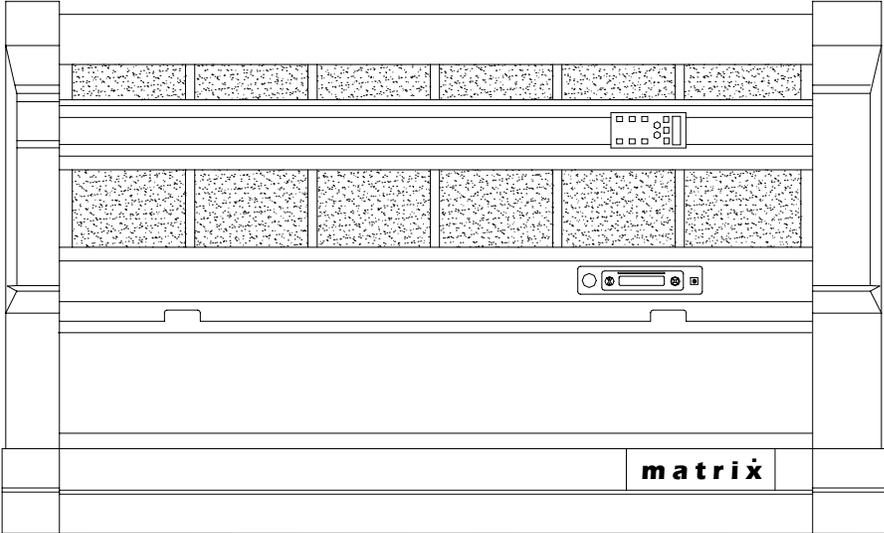
**DATE PURCHASED** \_\_\_\_\_

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.**  
**SAVE THIS MANUAL FOR FUTURE REFERENCE.**



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(Revised: 2/02)

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# BEFORE YOU BEGIN

Thank you for selecting the **HIGH PRESSURE MATRIX L33 UNIT**. This unit is designed to help you achieve the specific results you want. For your benefit, read this manual carefully before operating the **MATRIX L33** 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, 7am until 4:30pm (pacific time), to get a replacement label. Apply the replacement label to the location shown.

**WARNING:** ISS, Inc., dba TanAmerica/ISO Italia assumes no responsibility for personal injury or property damage sustained by or through the use of this product.

# TANAMERICA EQUIPMENT SPECIFICATIONS

## MATRIX L33

**UNIT REQUIREMENTS:** 230 volt / 3 Phase / 4-Wire (2 Hot, 1 Ground, 1 Neutral)  
110V OUTLET REQUIRED IN TANNING ROOMS WHERE REMOTE TIMER SYSTEMS ARE BEING UTILIZED.

## SPECIFICATIONS FOR MATRIX L33 UNIT

HEIGHT:	71"	WEIGHT:	1,940 LBS (APPROXIMATE)
DEPTH:	60"	# OF LAMPS:	33 [(6) 1,000w & (27) 620w]
WIDTH:	91"	ELECTRICAL:	230 V +/- 10V

### ELECTRICAL REQUIREMENTS:

~ 80 amp Breaker is recommended  
~ Running Amp Draw: 69.0

**RECOMMENDED ROOM SIZE:** 10 x 10

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

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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 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.

Tanning can begin on a regular basis. 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

# 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 PDR.

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

Since your tanning unit will cast off some heat, adequate **ventilation** of the room or booth housing the system is required for comfortable operation.

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.

# CHECKING HOURS ON LAMPS

## **DISPLAY NUMBER OF TIMES UNIT HAS BEEN TURNED ON**

Press buttons (**STOP & +**). Button (**1**) will start to flash and the display will show the number of times the tanning bed has been turned on (up to a maximum of 9999).

## **DISPLAY NUMBER OF OPERATING HOURS FOR FACIAL LAMPS**

Press button (**STOP**). Button (**2**) will start to flash, and the display will show the number of hours the facial lamps have operated (up to a maximum of 9999).

## **DISPLAY NUMBER OF OPERATING HOURS FOR BODY LAMPS**

Press button (**STOP**). Button (**3**) will start to flash, and the display will show the number of hours the body lamps have operated (up to a maximum of 9999).

## **DISPLAY OF ACCUMULATED OPERATING HOURS FOR REPLACEMENT OF FACIAL LAMPS**

Press button (**STOP**). Button (**-**) will start to flash, and the display will show the number of accumulated operating hours on the facial lamps (up to a maximum of 1000). When the hours shown exceed the preset time, the button for facial lamps, (**FACE**), will start to flash.

## **DISPLAY OF ACCUMULATED OPERATING HOURS FOR REPLACEMENT OF BODY LAMPS**

Press button (**STOP**). Button (**+**) will start to flash, and the display will show the number of accumulated operating hours on the body lamps (up to a maximum of 1000). When the hours shown exceed the preset time, the button for body lamps, (**BODY**), will start to flash.

## **DISPLAY OF ACCUMULATED OPERATING HOURS FOR PERIODIC MAINTENANCE**

Press button (**STOP**). Button (**START**) will start to flash, and will display the number of accumulated operating hours (up to a maximum of 1000). When the hours shown exceed the preset time, the button for periodic maintenance, (**SERVICE**) will start to flash.

## **END OF PROGRAMMING PHASE**

Press button (**STOP**) again to close the programming phase. The machine will be set for a new operating cycle.

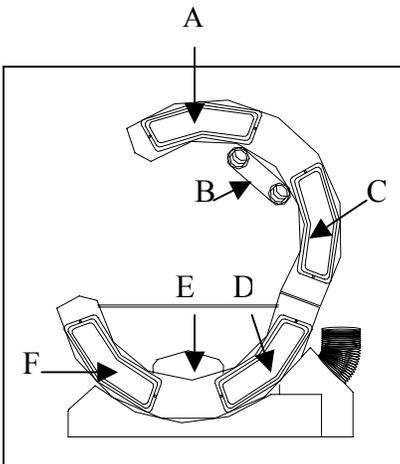
# CONFIGURATION OF LAMPS

## L33B

MODEL #	LAMPS	POSITION	FILTERS	TOTAL # OF LAMPS	TOTAL LAMP WATTAGE	TOTAL BED WATTAGE
L33/B	6x1000	Canopy	I.SO K+ Z <sup>1</sup>	33	22,700	25,300
	27x620	Bench	I.SO K+ Z			

## LAMPS LAYOUT INSIDE THE TANNING BED

### L33/B



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

\*= The number corresponds to the one which is positioned on its relating ballast which is connected to the lamp placed in that position inside the equipment.

# CARE AND MAINTENANCE

**CAUTION!** THE OPERATOR MUST SWITCH OFF POWER FROM THE TANNING UNIT BEFORE CLEANING AND/OR DISINFECTING THE MACHINE.

The 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 exchanging the filters, and ensure that filters are correctly repositioned, preventing white light from escaping. The protective acrylic panels of both the high-pressure lamps and the low-pressure neon tubes, the synthetic leather upholstery of the bench pad and the hot-formed plastic components of the tanning bed, can be cleaned with mild soap and water.

## DO NOT USE ALCOHOL BASED PRODUCTS

MAINTENANCE PROCEDURES	
1	Every day the operator must check that the cooling fans function properly, that they expel air at a constant rate and that no abnormal noises are produced.
2	Before every session, the operator must check protection filters for possible damage, also ensuring that no white light escapes in the direction of the lamps. In this case, switch off the machine at once and immediately contact the authorized technician for the replacement of the broken filter.
3	The operator must warn the user not to obstruct ventilation grills with objects and/or clothes.
4	At the end of the session the operator must 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> .
5	The operator must warn the user to touch neither the blue filters nor 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.
6	The filters and protective glass panels can be cleaned with any glass cleaner.
7	The external protection acrylic panels can be cleaned with mild soap and water. They must <b>NEVER</b> be cleaned with alcohol-based products.
8	<b>DO NOT</b> look directly at any type of white light given off by the tanning unit or from one of its openings.
9	The operator must periodically lubricate and grease the mechanical components that are part of the movement mechanisms for the backrest and face lamp units, using lubricating oil, or grease. The most important parts to be lubricated on the face lamp units are the sliding carriages and the backrest hinges. Access can be easily obtained to those parts by removing protection covers and the base sections of seats. The lubrication points on tanning beds are located mainly on the rotation shafts of the main movement mechanisms. To facilitate lubrication operations specific grease nipples have been fitted. Access to those points is generally obtained by removing the rear protection 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.	

## WARNINGS AND CAUTIONS

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 photosensitive 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.

## IMPORTANT

It is recommended to replace the plexiglas 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.

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

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

# OPERATING INSTRUCTIONS

## CONTROL PANEL

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

### **BUTTON A (START)**

Press button **A** to start session.

### **BUTTON B (STOP)**

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

### **BUTTON C, D, & E (MEMORIZED SESSION TIMES)**

Press buttons **C**, **D**, or **E** to choose one of the memorized session times.

### **BUTTON F & G (SELECTION OF FACE/BODY)**

***FACTORY SETTINGS ONLY***

### **BUTTON H & I (VENTILATION SETTINGS)**

***FACTORY SETTINGS ONLY***

### **BUTTON H & I (VENTILATION OF FACE)**

After starting tanning bed, press buttons **H/I** to set the desired flow of air on face and body. The ventilation range is from 0 to 8, and it is adjusted by repeatedly pressing the button, not by holding them down. This operation can also be performed during the period of delayed ventilation.

### **BUTTON N & O (POSITIONING OF THE CANOPY)**

After starting tanning bed, press the buttons **N/O**, it is now possible to position the canopy. At the end of the session, the motor will automatically go to the initial position.

### **RED MUSHROOM BUTTON (EMERGENCY BUTTON)**

The emergency button must be used only in case of extreme necessity.

The emergency button immediately shuts down the power supply to the machine, thereby preventing normal end-of-session functions from being completed. This may cause damage to components such as lamps, electronic circuit boards, etc.

### **SOCKET S (HEADPHONE SOCKET)**

Insert the headphone plug into the socket. Do not leave the headphones plugged in when they are not being used as this will prevent sound and messages from being relayed over the loudspeakers.

### **KEY T (TO LOCK SELECTION)**

***FACTORY SETTING ONLY***

# OPERATING INSTRUCTIONS

## CONTROL PANEL

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

- Button **A (START)**
- Button **B (STOP)**
- Three buttons **C-D-E** to choose one of the memorized session times
- Two buttons **F-G** for selection of face/body
- Two buttons **H (-)** and **I (+)** to adjust ventilation and the various parameters that can be set
- One button **N** to uplift (motor 2)
- One Button **O** to bring down (motor 2)
- One socket **S** for headphones
- One key **T** to lock selection.

## TANNING FACE AND/OR BODY

This function must be enabled only before the session is started.

The buttons used for selecting face and body lamps are **F (BODY)** and **G (FACE)**, with indicator LEDs, and the key selector (**T**).

In stand-by status, the panel shows the last selection made. In default status, both the face and body functions are selected.

## SELECTION OF EXPOSURE TIMES

Before starting the session, using buttons **C (time 1) — D (time 2) — E (time 3)** one of the three times can be selected. To do this, press one of the three buttons. The display will show the memorized time selected and the corresponding LED indicator will light up. NB: If it is decided to use only time 1, press button C for 10 seconds. This will lock out the selection of the other two times. If the operation is repeated, it is possible once more to select all three times. NB: At the end of every session the unit returns to time 1.

## BUTTON A (START)

Press button **A (START)** to start session.

## BUTTON B (STOP)

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

## POSITIONING OF THE FACE & BODY SOLAR GROUPS

After the START. Press the buttons **N-O**, it is now possible to position the Solar Group. At the end of the session, the motor will automatically go to the initial position.

## **VENTILATION OF FACE**

After the start. Use buttons H – I to set the desired flow of air on face and body. The ventilation range is from 0 to 8, and it is adjusted by repeatedly pressing the button, not by holding them down. This operation can also be performed during the period of delayed ventilation.

## **EMERGENCY BUTTON (*Red Mushroom*)**

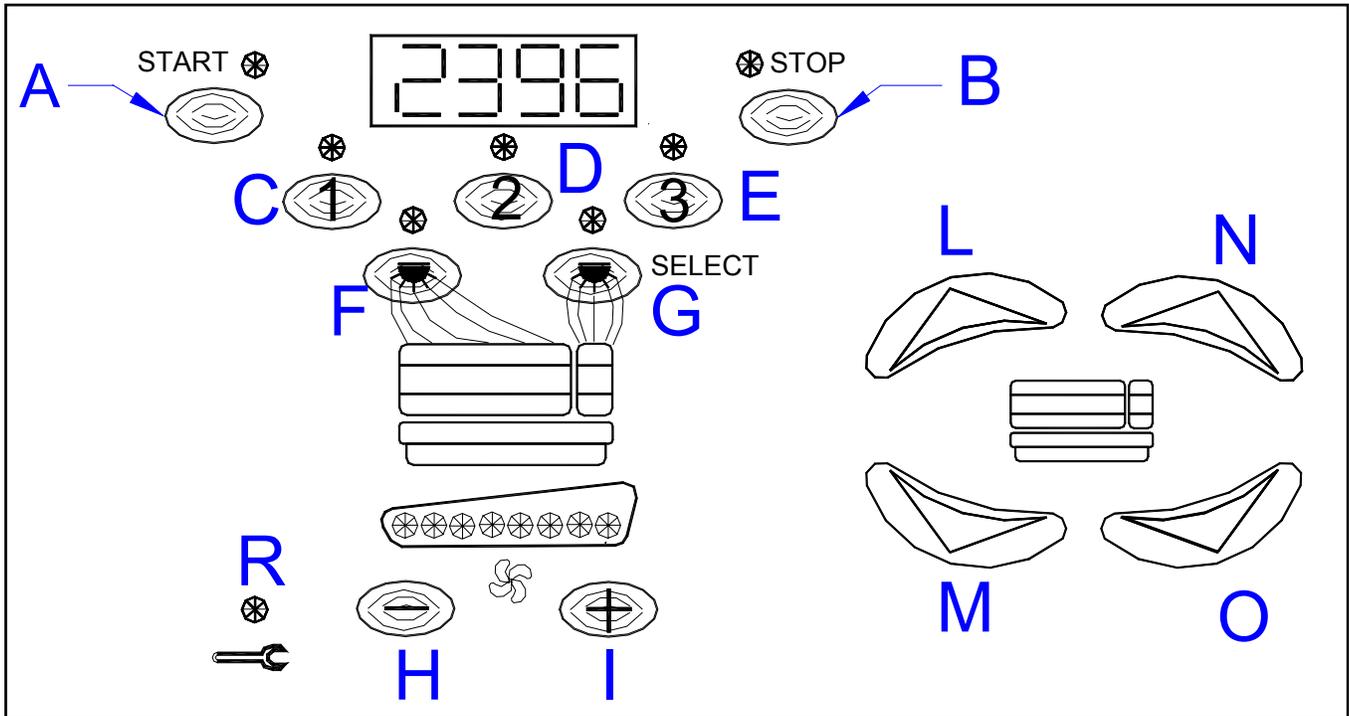
The emergency button must be used **only in case of extreme necessity**.

The emergency button immediately shuts down the power supply to the machine, thereby preventing normal end-of-session functions from being completed, and it must be remembered that this may cause damage to components such as lamps, electronic circuit boards, etc.

## **HEADPHONES SOCKET**

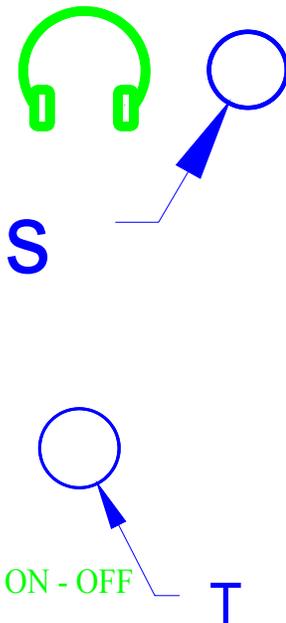
Insert the headphones plug into the socket (**S**). Do not leave the plug inserted when the headphones are not being used, as this will prevent sound and messages from being relayed over the loudspeakers.

# CONTROL PANEL DISPLAY



## 4-DIGIT LED DISPLAY

- A** START: press for 1 second
- B** STOP: press for 2 seconds
- C-D-E** Three time selections
- F-G** Body and Face selection and Lamp Change indicator
- H-I** Electronic Regulation of face ventilation. Press one time for each level.
- N-O** Solar group positioning (Face and Body Only) At the end of the session it will go back to the initial position.
- R** Led of periodic maintenance indication
- S** Headphone Jack Socket
- T** Selection Block Key



# PROGRAMMING

## VIEWING THE DISPLAY, USE OF CONTROLS, MEMORIZATION FUNCTIONS AND PROGRAMMING FUNCTIONS

### INITIAL PROCEDURE

When power is supplied to the panel, the central segments of the four LED displays will light up for a few seconds. A test is then performed on all LED's (*displays and indicators*) and finally the unit is set to the first memorized time with both face and body lamps selected.

To set the various parameters, the unit must be switched on, and the session, the various ventilation phases and/or the raising of the motors must have been fully completed.

### RESET PROCEDURE 1

With the button **(C)** pressed down and the unit switched on, all memorized values are reset to the original factory-programmed values. The display will show the message dEF for a few seconds, after which the panel returns to default values.

## **KEY #1 MODIFICATION OF THE EXPOSURE TIMES SETTING**

### **SETTING TIME 1**

Press both buttons **(A - B)** to access program **(time 1)**. *The LED of button (C) will start to flash.* It is now possible to vary the memorized time with buttons **(H-I)**.

### **SETTING TIME 2**

Push button **(B)** again to access program **(time 2)**. *The LED of button (D) will start to flash.* It is now possible to vary the memorized time with buttons **(H-I)**.

### **SETTING TIME 3**

Push button **(B)** again to access program **(time 3)**. *The LED of button (E) will start to flash.* It is now possible to vary the memorized time with buttons **(H-I)**.

### **END OF PROGRAMMING PHASE**

Press button **(B)** again to end the programming phase for the three times. Times can range from a minimum of 1 minute to a maximum of 6 minutes. The factory-programmed times are 15, 10 and 5 minutes respectively for times 1, 2 and 3.

## **KEY #2 VISUALIZATION OF ONE EXPOSURE TIME ON THE DISPLAY**

When button **(C)** (program time 1) is pressed for 10 seconds, only time 1 will be activated. Selection of the other two times is impeded. Repeat the operation to allow all three times to be selected again.

## **KEY #3 READING OF HOURS, STARTS, LAMPS, MAINTENANCE**

### **DISPLAY OF NUMBER OF TIMES SWITCHED ON**

Press both buttons **(B - I)**. *The LED of button (C) will start to flash*, and the display will show the number of times the unit has been switched on **(up to a maximum of 9999)**.

### **DISPLAY OF NUMBER OF OPERATING HOURS OF FACE LAMPS**

Press button **(B)**. *The LED of button (D) will start to flash*, and the display will show the number of hours for which the face lamps have operated **(up to a maximum of 9999)**.

### **DISPLAY OF NUMBER OF OPERATING HOURS OF BODY LAMPS**

Press button **(B)** again. *The LED of button (E) will start to flash*, and the display will show the number of hours for which the body lamps have operated **(up to a maximum of 9999)**.

### **DISPLAY OF OPERATING HOURS ACCUMULATED FOR REPLACEMENT OF FACE LAMPS**

Press button **(B)** again. *The LED of button (H) will start to flash*, and the display will show the number of operating hours accumulated for the replacement of the face lamps **(shown on the 4-figure display up to a maximum of 1000)**. When the hours shown on the 4-figure display exceed the preset time, the LED corresponding to the selection of the face lamps (LED of button **F**) will start to flash.

### **DISPLAY OF OPERATING HOURS ACCUMULATED FOR REPLACEMENT OF BODY LAMPS**

Press button **(B)** again. *The LED of button (I) will start to flash*, and the display will show the number of operating hours accumulated for the replacement of the body lamps **(shown on the 4-figure display up to a maximum of 1000)**. When the hours shown on the 4-figure display exceed the preset time  
(see combination 6) the LED corresponding to the selection of the body lamps (LED of button **G**) will start to flash.

### **DISPLAY OF OPERATING HOURS ACCUMULATED FOR PERIODIC MAINTENANCE**

Press button **(B)** again. *The LED of button (A) will start to flash*, and the display will show the number of operating hours accumulated for periodic maintenance **(shown on the 4-figure display up to a maximum of 1000)**. When the hours shown on the 4-figure display exceed the preset time the LED **(R)** corresponding to the periodic maintenance symbol will start to flash.

### **END OF PROGRAMMING PHASE**

Press button **(B)** again to close the programming phase. The unit will be set for a new operating cycle.

## **KEY #4 READING AND RESETTING**

### **NUMBER RESETTING**

By pushing the **(B-C-A)** buttons at the same time, *the LED of button (C) will start flashing* and the display will show the executed number of starts. If you want to reset them, push the **(A)** button.

### **FACE LAMPS RUNNING HOURS RESETTING**

By pushing the **(B)** button again, *the LED of button (D) will start flashing* and the display will show the number of running hours for the face lamps. Push the **(A)** button to reset.

### **BODY LAMPS RUNNING HOURS**

By pushing the **(B)** button again, *the LED of button (E) will start flashing* and the display will show the number of running hours for the body lamps. Push the **(A)** button to reset.

### **RESETTING OF THE ACCUMULATED HOURS FOR FACE LAMP REPLACEMENTS**

By pushing the **(B)** button again, *the LED of button (H) will start flashing* and the display will show the accumulated number of hours for the face lamps. Push the **(A)** button to reset.

### **RESETTING OF THE ACCUMULATED HOURS FOR BODY LAMP REPLACEMENTS**

By pushing the **(B)** button again, *the LED of button (I) will start flashing* and the display will show the accumulated number of hours for the body lamps. Push the **(A)** button to reset.

### **RESETTING OF THE ACCUMULATED HOURS FOR ORDINARY REPAIRS**

By pushing the **(B)** button again, *the LED of button (A) will start flashing* and the display will show the accumulated number of hours for ordinary repairs. Push the **(A)** button to reset.

### **END OF PROGRAMMING CYCLE**

By pushing the **(B)** button again, the reading process will stop and the unit will reset itself for a new running cycle.

## **KEY #5 PROGRAMMING SETUP**

### **SETUP FOR FACE LAMP REPLACEMENTS**

By pushing the **(B-E-A)** buttons at the same time, *the LED of button (C) will start flashing* and the display will show the previous set up hours for face lamp replacements. It is possible to vary this time from a minimum of (50) hours to a maximum of (1,000) by using the **(H)** for decreasing and **(I)** for increasing. The default time is 450 hours. There must be a 50-hour increment.

### **SETUP FOR BODY LAMP REPLACEMENTS**

By pushing the **(B)** button, *the LED of button (D) will start flashing* and the display will show the set hours for body lamp replacements. It is possible to vary this time from a minimum of (50) hours to a maximum of (1,000) by using the **(H)** for decreasing and **(I)** for increasing. The default time is 450 hours. There must be a 50-hour increment.

### **SETUP FOR ORDINARY REPAIRS**

By pushing the **(B)** button, *the LED of button (E) will start flashing* and the display will show the set hours for ordinary repairs. It is possible to vary this time from a minimum of (50) hours to a maximum of (1,000) by using the **(H)** for decreasing and **(I)** for increasing. The default time is 450 hours. There must be a 50-hour increment.

### **SETUP OF BLOCKING TIME AFTER A NUMBER OF WORKING HOURS**

By pushing the **(B)** button again, *the LED of button (H) will start flashing* showing the possibility to set up a forced and fixed session time of (3) minutes. This blockage happens after settled working hours of the unit. The working hours number that can be set up may vary from 0 to 250 hours. It is possible to vary this time by using the **(H)** for decreasing and **(I)** for increasing. The default value is 0.

### **VISUALIZATION OF A SESSION TIME ON INCREMENT OR ON DECREASE**

By pushing the **(B)** button again, *the LED of button (I) will start flashing* showing the possibility of setting up the duration of a session, by using the **(H)** for decreasing and **(I)** for increasing.

### **END OF PROGRAMMING CYCLE**

By pushing the **(B)** button again, the reading process will stop and the unit will reset itself for a new running cycle.

# USE OF TANNING LAMP FUNCTIONS (FACE/BODY)

This function must be enabled only before the session is started.

The buttons used for selecting face and body lamps are F (Body) and G (Face), with indicator LED's, and the key selector (T).

In stand-by status the panel shows the last selection made. In default status both the face and body functions are selected.

## PROCEED AS FOLLOWS TO SET FUNCTIONS:

1. Press both buttons F-G. If the message SEL appears on the display proceed with selection. If the message BLOC appears, turn the mechanical key (T) until the message SEL appears.
2. Use buttons F-G to select the new setting desired.
3. To lock the new selection for all subsequent selections, turn the mechanical key and check that the message SEL changes to BLOC.
4. Finally press stop button (B) to exit from the selection program.
5. From point 2, if the new selection is to be used without locking selection with the mechanical key, press stop button (B) to exit from the selection program.
6. From the moment buttons (F-G) are pressed there are 30 seconds available for making changes. Several changes can be made, but only the final setting is memorized.

# MAINTENANCE

## THE OPERATOR MUST SWITCH OFF THE POWER FROM THE UNIT BEFORE CLEANING AND/OR DISINFECTING.

The filters must be cleaned periodically by the operator (*about every 30 hours of operation*) with water or glass detergent, after having carefully followed the indications given by technicians trained and authorized by TanAmerica/ISO Italia. During cleaning operations, it is essential to take the greatest care to **avoid touching the lamps** with bare hands. If this does occur, clean the lamps with a cloth soaked in denatured ethyl alcohol. Also take great care to avoid exchanging the filters, and ensure that filters are correctly repositioned, preventing white light from escaping.

The protective plexiglas panels of both the high-pressure lamps and the low-pressure neon tubes, and the hot-formed plastic components of the unit can be cleaned with soap and water or specific products. Take care, however, to avoid the use of alcohol-based products.

- Every day the operator must check that cooling fans function correctly, that they expel air at a constant rate and that no abnormal noises are produced.
- Before every session the operator must check protection filters for possible damage, also ensuring that no white light escapes in the direction of the lamps. In this case, switch off the machine at once and immediately contact your authorized technician for the replacement of the broken filter.
- At the end of the session the operator must allow the apparatus to complete the ventilation cycle for cooling of the lamps, which lasts 3–4 minutes according to the model. The unit is fitted with a timer for residual ventilation. Should this ventilation cycle fail to be activated, contact the technician authorized by TanAmerica/ISO Italia.
- Do Not touch the blue filters or the lamps with bare hands. If contact with the hands occurs, the filters and lamps must be carefully cleaned with a specific product or with alcohol, spraying it onto a cloth and then wiping only the external surface of the blue filter. The filters and protective glass panels can be cleaned with any glass detergent. The plexiglas panels giving external protection can be cleaned with specific products. They must **NEVER** be cleaned with alcohol-based products.
- Do not look directly at any type of white light given off by the unit or from one of its openings.
- You **MUST** periodically lubricate and grease the mechanical components that are part of the movement mechanisms for the backrest and face lamp units, using lubricating oil or grease. The most important parts to be lubricated on the face lamp units are the sliding carriages and the backrest hinges. Access can be easily obtained to these parts by removing protection covers and the base sections of seats. The lubrication points on tanning beds are located mainly on the rotation shafts of the main movement mechanisms, where to facilitate lubrication operations specific grease nipples have been fitted. Access to these points is generally obtained by removing the rear protection covers.

# TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
<b>WHITE LIGHT ESCAPING FROM FILTERS</b>	Broken filter Filter not correctly positioned	Replace filter (*) Check correct filter position.
<b>DISPLAY OFF</b>	Power failure	Check secondary and main switches.
<b>UNIT OFF</b>	Blown fuse	Change fuse.
<b>DECREASE IN TANNING POWER</b>	Deposits and/or dust on filters, glass or acrylic	Clean parts as instructed.
<b>LAMP DOES NOT TAN</b>	Lamps/tubes too old	Check that number of operating hours on lamps/tubes is not over the recommended duration.
<b>ONE OR MORE LAMPS OFF</b>	Blown fuse One or more broken lamps Ignitor malfunction Loose terminals	Change fuse (*) Replace lamps (*) Replace ignitor (*) Check cable connections(*)
<b>PREMATURE AGING OF ACRYLIC</b>	Defect or malfunction of lamp ventilation fans Broken filter Filter not correctly positioned	Check that air intakes are unobstructed (*); Replace broken filter (*); Check correct filter position.
<b>MAIN SWITCH TRIPS</b>	Electrical system overload	Contact technician.
<b>TOKEN UNIT MALFUNCTION</b>	Jammed token	Check for objects in slot.
<b>RADIO MALFUNCTION</b>	Poor reception: Is headphone socket inserted?	Extract aerial; Remove socket;
<b>CONTROL PANEL MALFUNCTION</b>	Incorrect operation or panel defect	Carry out reset procedures (see specific instructions)
<b>FILTER ALARM VISUALIZATION FLT 1-2-3</b>	Broken Filter or defect serigraphy Filter not in right position with respect to the el. contact	Substitution filter (*); Verify if the filter is in right position
<b>FAN ALARM VISUALIZATION FAN 1-2</b>	Disconnect supply connector of ventilation Broken Fuse of vent. Protection defect supply	Re-assemble connector (*); Substitution fuse (*); Substitution card (*);
<b>THERMIC ALARM VISUALIZATION TER</b>	Fun locking Obstruction expulsion channel Obstruction aspiration channel	Verify supply voltage (*); Release air channel (*); Verify cleanliness for air filters (*);

**(\*) OPERATIONS MARKED WITH AN ASTERISK MUST BE PERFORMED ONLY BY TECHNICIANS TRAINED AND AUTHORIZED BY TANAMERICA/ISO ITALIA.**

**IF THE REMEDIAL ACTION TAKEN FAILS TO RECTIFY THE PROBLEM, CONTACT YOUR TECHNICIAN.**

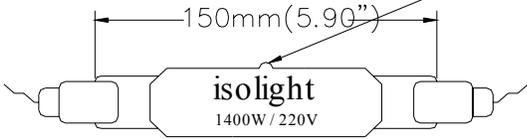
# TECHNICAL CHARACTERISTICS OF LAMPS

## HIGH PRESSURE LAMPS AND LOW PRESSURE LAMPS (UVA/UVB)

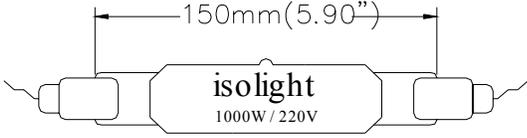
ORIGINAL I.S.O Italia *Isolight*

Temperature measurement point  
Valid for all lamps

Optimum working temperature  
of approx 700 / 880° C



ISO Light 1400W / 220V  
Voltage of the lamp 130± 10V  
8.2 A 9.2 A 10.5 A 0  
D C B A



ISO Light 1000W / 220V  
Voltage of the lamp 130± 10V  
7.9 A 8.5 A 9.2 A 0  
D C B A



ISO Light 620W / 220V  
Voltage of the lamp 135± 10V  
5. A 5.5 A 6 A 0  
D C B A

8.2A	9.2A	10.5A	0
X			

7.9A	8.5A	9.2A	0
X			

5 A	5.5A	6 A	0
X			

NOTE: the ballast output can be changed to a higher value only after every 200 h of UV lamp use and solely by technicians authorized by TAN AMERICA do not perform this operation sooner.  
Important: after every change of UV-A lamps RETURN the ballast output to the default value.

# POWER SUPPLY MODULE

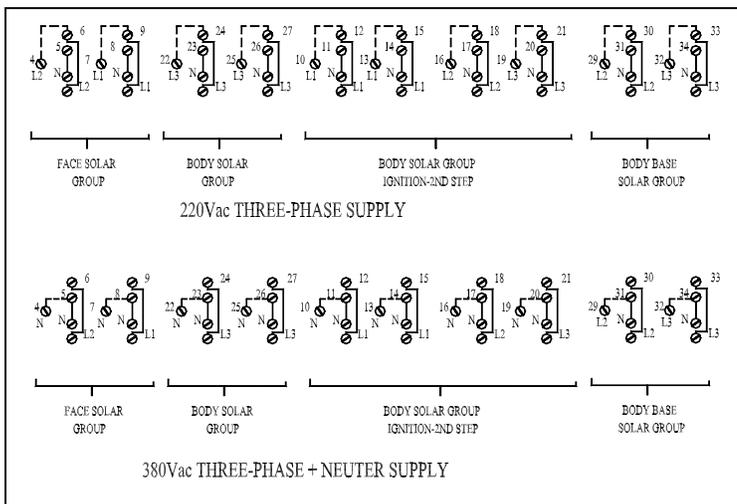
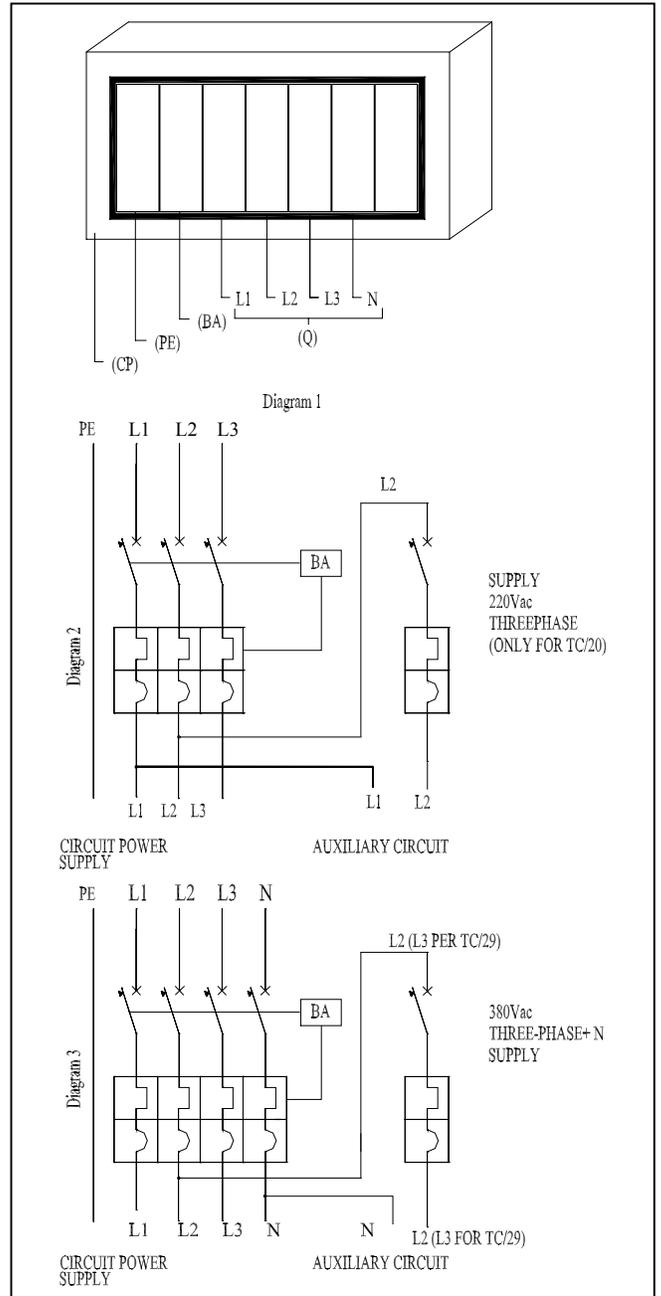
The Main Circuit Breaker (Q) together with the Secondary Circuit Breaker (A), the Tripping Coil (BA) and the Ground Connection Terminal (PE) are housed inside the Protection Box. (CP).

FIGURE1 shows the module layout of the components.

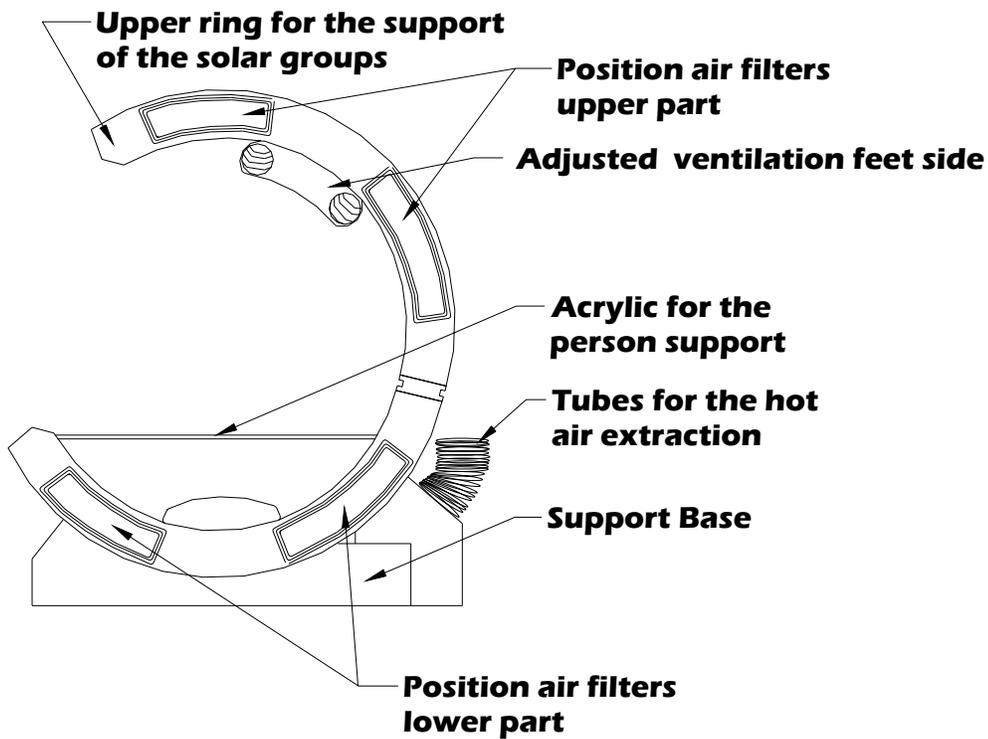
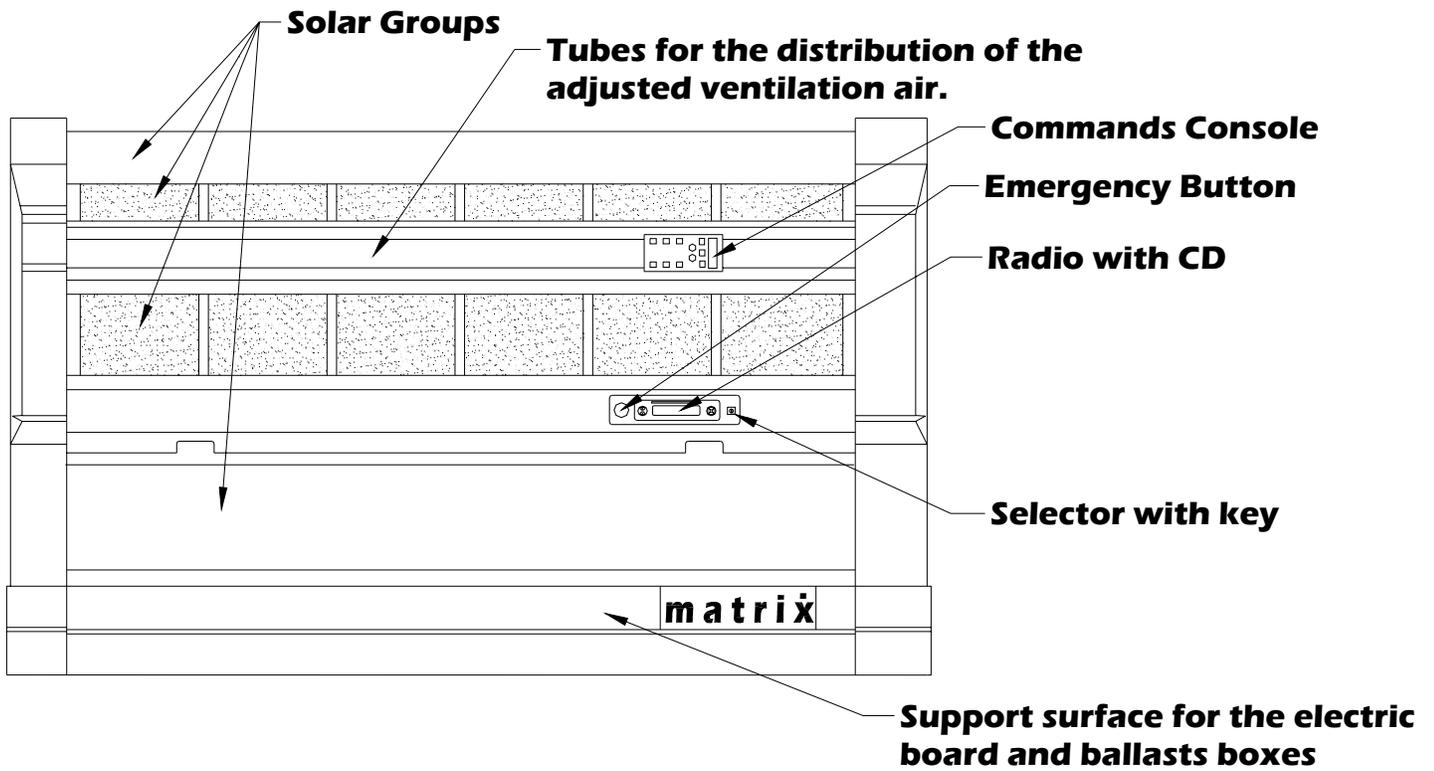
To supply power to the unit, first raise the Tripping Coil, then the Main Circuit Breaker and, at the end, raise the Secondary Circuit Breaker.

The secondary circuit is powered from two phases (L1 shown in Figure2) but this may vary according to the configuration of the unit. Consult the relative wiring diagram for each unit configuration to determine the type of the main and secondary circuit breakers and to check the phase from which the secondary circuit is to be powered.

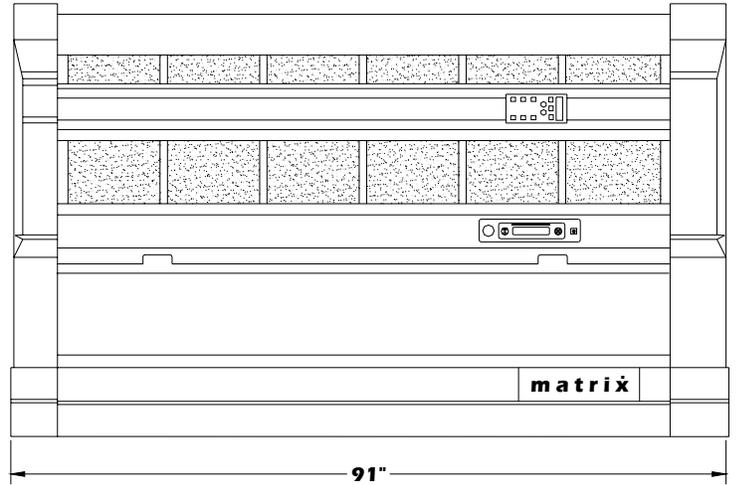
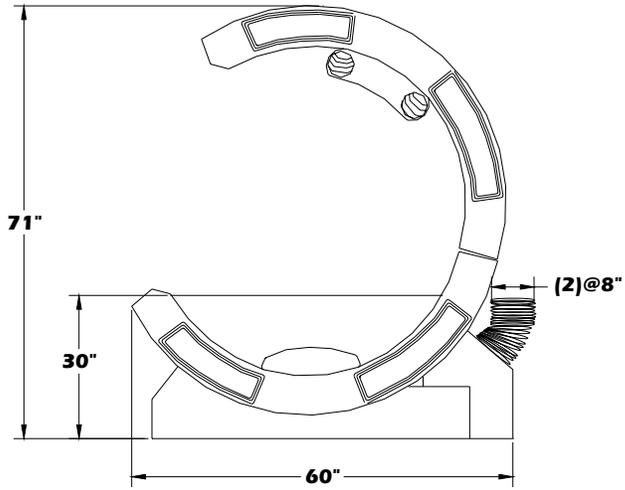
**IMPORTANT:** Substitute the power supply cable with a suitable replacement! The cable used is fire resistant with low emission of corrosive gases.



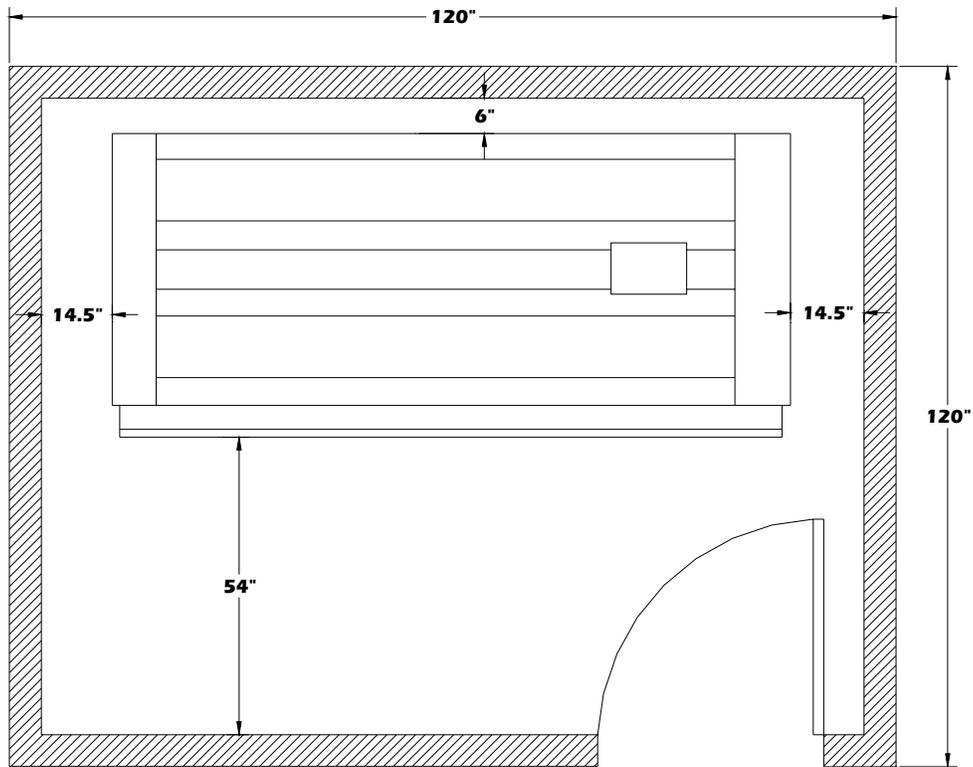
# MATRIX L33 GRAPHIC DESCRIPTION



# TANAMERICA/ISO ITALIA MATRIX L33/B OVERALL DIMENSIONS



THE MINIMUM DISTANCES MUST BE OBSERVED.



# ASSEMBLY INSTRUCTIONS

## 1) POSITIONING OF THE UNIT

Position the support base of the solar group, which consists of the two semi-circles, on the floor at the given distances from the walls as indicated. Fix the metal panel in the center of the lower part of the two support rings, to ensure the stability of the first two parts positioned.

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

## 2) FITTING OF THE CENTRAL HORIZONTALLY PIVOTED SOLAR GROUPS UPPER AND LOWER PARTS PB/PF

Before fitting the lower solar group PF (lower panel with 5 lamps) ensure that the two pins, situated at the extremities of the foot end, are unscrewed from the inside (opening in sequence the Plexiglas door and then removing the first reflector towards the foot end) so as to reduce to a minimum the length of the panel. After this insert the pin at the head end, ensuring that the nylon bush has already been inserted into the pivot, in the hole situated on the lower support ring; then align the two pin pivots at the foot end with the holes on the balance rail and secure them with screws, from the inner side, so as to complete the mechanical fixing of the panel. The electrical connection is carried out at the head end by inserting the connector, which is situated under the solar group, into the opening under the solar group itself; link the corresponding connectors on the inner side ensuring that they are fixed to the oval wall to keep them as far from the reflector as possible. The same procedure as above must be followed when fitting the upper central solar group PB (upper panel with 6 lamps) the only difference being the power lead of the solar group which, in this case passes through the inside of it.

## 3) FITTING THE UPPER HANDLE

The upper handle must be fixed to the extremities of the two upper rings with two m8 screws, on the inner side of the rings. Access to the inner part of the rings is possible by removing the lids that shut the extremities of the rings.

## 4) FITTING THE FIXED SOLAR GROUPS PA/PC/PD/PF

After having fixed the two horizontally pivoted solar groups and the handle proceed with the fitting of the other solar groups PA/PC (upper panel with 6 lamps) PD/PF (lower panel with 5 lamps) which will be fixed to the oval extremities of the support rings by four screws. The electrical connections must be carried out the same way as for the first two solar groups passing through the appropriate holes towards the head making sure to secure the cables on the inside so that they do not touch the lamp reflectors. In order to position the above-mentioned solar groups it is necessary to refer to the numbering for electrical connections. In some panels there are smaller leads that come out at the foot end, these will be used to link other parts such as turbines, motors, etc., the passage and connection is similar to that of the head end.

## 5) FITTING OF THE RADIO CONSOLE

The radio console must be fitted on the back of panel PD at the head end through the two cup nuts situated beside the support stand. The electrical connection is made by inserting the power connectors into the appropriate holes in panel PD and joining them to the corresponding ones on the inside of the panel. Access to the inside for checks and maintenance is possible through two lids that are situated on the back of the console and fixed by two screws.

## 6) POSITIONING OF THE REACTANCE BOXES AND ELECTRICAL PANEL

Place the three reactance boxes and the electrical panel on the floor starting from the foot end with #3 box then #2 and then #1 then place the electrical panel beside them. The boxes must be positioned as close as possible to the foot end in order to leave space at the head end for the through passage of the

connecting cables. The boxes are supported by wheels to make movement easier. All the connections must strictly follow the numbering of the connectors.

### **7) FITTING OF THE COVER PANELS AND POSITIONING OF THE EXTRACTION AND VENTILATION BOXES.**

After having fitted all the panels it is necessary to fit the back and front cover panels. Having previously ensured that the power supply lead comes out from the rear of the head end and all the other internal leads which connect the rest of the machine. Then place as shown on the diagram the hot air extractor turbine box (fixing it with the supplied screws from the inner side) and the plexi-glas box with the plexi-glas ventilation turbine making sure to connect all the electrical parts.

**NOTE: Failure to perform the electrical connections will seriously jeopardize the workings of the unit.**

The box for the extraction of hot air must be connected to the expulsion pipes supplied, their length must not exceed three meters and they must be put down as straight as possible (at the most with a bend of 90°). If a longer amount of extraction piping is needed then it is necessary to fix a supplementary extractor with a suitable flow capacity.

### **8) FITTING OF THE COMMAND CONSOLE**

The command console must be fitted to the structure by inserting the prop into the welded support on the structure in order to make the holes for the fixing pivot match; the fixing pin allows the console to rotate making checking and maintenance easier to carry out; in this first stage much attention must be paid to the feeding through of the connection leads and to the electronic circuit which must be inserted beside the latch which is situated on the inner side of the support arm, fixing them with the central tabs. There is a mechanical safety release device on the clamp of the console which is on the back of the prop; a nylon washer which must be rotated over the welded support in order to ensure the fitting of the console in the correct position for use.

### **9) FITTING OF TURBINES FOR REGULATED VENTILATION AT FOOT END**

Place the accessory containing the turbines for regulated ventilation at the foot end on the four pivots situated on the upper ring and tighten the grub screws in order to fix the accessory to the structure.

**Note: Before fixing check the electrical connection.**

### **10) FITTING OF PLEXIGLAS TUBES FOR BODY VENTILATION**

Make sure first of all that the metal part where the directional nozzles are fixed has been inserted at the head end (paying attention to the nozzles' air intake end), then insert the Plexiglas part into the opening on the support ring at the foot end matching the groove on the Plexiglas tube with the reference pin, so as to be able to insert even the other extremity at the head end. At this point pull the tube towards the head end and rotate it until the metal nozzles on the back of the supports match up with the corresponding fitting holes, where a screw will be inserted to assure stability and inclination. The same procedure is followed for both tubes.

### **11) FITTING OF THE PLEXIGLAS**

The Plexiglas must be fitted onto the carrying frame which will in turn be placed on the 4 support pivots. The angled grooves on the 4 points of support of the structure assure perfect anchorage to the structure.

To remove, it is sufficient to lift the Plexiglas slightly at the front then slide it off the back support pivots; to make cleaning and maintenance of the lower solar groups easier the Plexiglas top has two rods, which are fitted to the two side supports, which will hold it up if it must remain open.

### **12) FILTER CLEANING AND LAMP CHANGING**

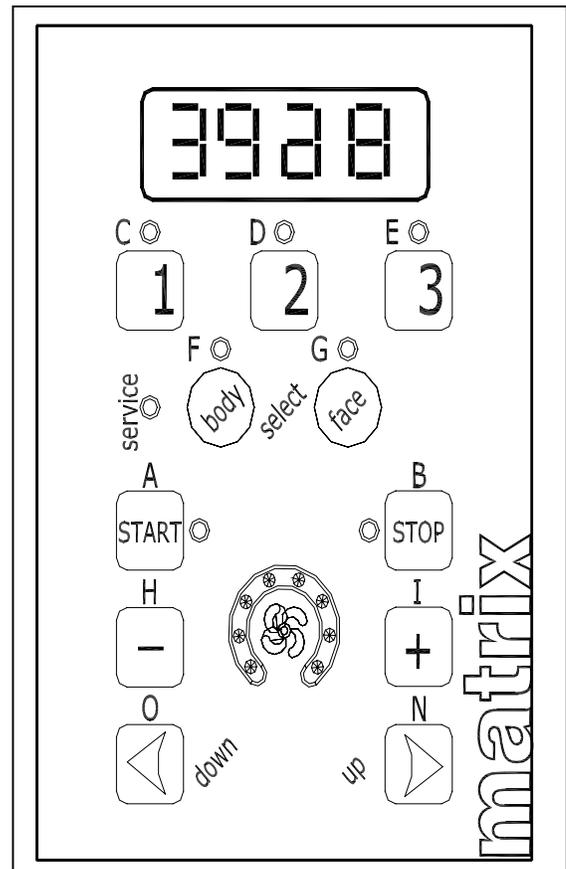
Access to the internal parts such as filters and lamps is very easy; the Plexiglas door snaps shut so it is sufficient to pull on it on the side where it is free of hinges in order to open it, after which it is sufficient to turn the screws that fix the door of the Blue filters by 90° to be able to get to the lamps. At this point it is possible to carry out cleaning, maintenance and changing of lamps.

NB. During maintenance and cleaning it is very important not to move the filters from their fittings as this risks setting off the control alarm for broken filters, also the slightest movement may cause the interruption of the control circuit.

# CONTROL PANEL

## 4 DIGIT LED DISPLAY

- A** START: PRESS FOR A SECOND
- B** STOP: PRESS FOR 2 SECONDS
- C-D-E** THREE DIFFERENT TIME SELECTIONS
- F-G** BODY AND FACE SELECTION AND LAMP CHANGE INDICATORS.
- H-I** ELECTRONIC REGULATION FOR FACE VENTILATION. PRESS ONE TIME FOR EACH LEVEL.
- N-O** LAMP GROUP POSITIONING FOR FACE AND BODY. AT THE END OF THE SESSION IT WILL RETURN TO THE INITIAL POSITION.
- R** LED DISPLAY OF PERIODIC MAINTENANCE
- S** JACK SOCKET FOR HEADPHONES
- T** SELECTION BLOCK KEY



# 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. This information can be found on the right-hand side of the blue base.
2. If you have not registered a completed Warranty Card with **TanAmerica**, please provide proof of purchase, in the form of a paid receipt/invoice, copy of canceled check or credit card statement. This must be provided before any claim will be considered.
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 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.**

# LIMITED WARRANTY

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**TanAmerica** warrants its tanning units to be free from defects in materials and workmanship under intended normal use, for a period of one (1) year from date of purchase. 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.
- 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.

**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.**

- 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 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.
- Only parts obtained through **TanAmerica**, its authorized dealers or distributors may be used. **TanAmerica** will cover ground transportation costs for warranty parts shipped to the consumer. Return costs of defective parts to **TanAmerica** are not included. Adequate packaging must be used for returned goods to prevent freight damage.

- **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 for **five (5) 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.**

It is imperative that the original customer completes and returns the enclosed warranty card within ten (10) days after purchase to insure valid registration and coverage for potential claims. If the warranty card is not registered, proof of purchase from **TanAmerica** or its authorized dealer or distributor will be required prior to any consideration on warranty claims. This could result in service delays.

This warranty is extended to the individual or legal entity whose name appears on the warranty registration card filed with **TanAmerica** or 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. Return freight of defective parts is the customer's responsibility.

## **RADIO WARRANTY**

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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.