



User Manual

Saturn



Miracle Sun - Saturn

INDEX

<u>SECTION</u>	<u>PAGE</u>
1.0 INTRODUCTION	3
2.0 SAFETY WARNINGS	3
2.1 Photosensitivity - know the symptoms	
3.0 FEDERAL REGULATIONS	4
3.1 Guidelines for the Salon Owner	
3.2 Labeling requirements	
3.3 Timer requirements	
3.4 Protection from UV lamps	
3.5 Certified UV lamps	
3.6 Protective eyewear	
3.7 Prescription and non prescription drugs	
4.0 INSTALLATION REQUIREMENTS & GUIDELINES	7
4.1 Space requirements	
4.2 Electrical requirements	
4.3 Ventilation requirements	
4.4 Equipment check list	
4.5 Step by step installation instructions	
5.0 USER INSTRUCTIONS	8
5.1 Fundamental precautions	
5.2 Instructions for use	
6.0 PROGRAMMING INSTRUCTIONS	9
7.0 PREVENTIVE MAINTENANCE & CLEANING	10
7.1 Sanitize	
7.2 Log UV Output	
7.3 Cleaning the UV Filters	
7.4 Replacing the UV Filters	
7.5 Lamp replacement	
7.6 Certified UV Lamps	
7.7 Sample Maintenance Log Sheets	
8.0 T - MAX TIMER CONNECTIONS	13
9.0 TECHNICAL SPECIFICATIONS	14
10.0 TROUBLE SHOOTING	15
11.0 SAMPLE CUSTOMER CARD	16
12.0 ELECTRICAL DIAGRAMS	17

Miracle Sun - Saturn

1.0 INTRODUCTION

For the best results and for the safety of your clients, please read this Manual carefully. Please pay particular attention to the correct safety, installation and maintenance instructions.

It is important that this Manual stays with the tanning system, particularly if the unit is relocated for any reason.

Note that improper electrical installation of the equipment or unauthorized substitution of electrical components or optical devices (lamps, filters etc.) may invalidate FDA and/or electrical standards (ETL, UL) conformance.

The Saturn 360° high pressure stand up system, distributed in North America exclusively by Miracle Sun™, combines a futuristic Italian design with state of the art components to offer your Salon clients a truly unique tanning experience.

With its breathtaking design, and innovative vertical Heraeus lamps with glass, parabolic reflectors with 360° all round tanning, your clients are sure to be delighted by the comfort and the effectiveness of their 12 minute tan. And the advanced body cooling, integrated ventilation system ensures a really cool experience.

2.0 SAFETY WARNINGS

2.1 Photosensitivity - know the symptoms

Although natural tanning by the sun, and tanning by exposure to ultraviolet lamps is popular throughout the world, there is still a great deal of confusion regarding the risks and benefits of exposure to ultraviolet rays.

What is known however, is that some of us are more susceptible to sunburn than others, and we generally classify this susceptibility by skin type. Type I will burn easily while Type IV is insensitive to the sun and rarely burns.

However, an individual's sensitivity to ultraviolet light can be heightened by the presence of certain chemicals on the skin - from the use of common skin care products and cosmetics for instance. These chemicals are called photosensitizers and it is important for tanning salon operators to be able to identify them and to recognize the symptoms.

Photosensitivity can cause a variety of symptoms but is usually observed as red or discolored patches on small areas of the body. It can also be seen as blotchy forms which is sometimes caused by heat as well as ultraviolet radiation. Other symptoms include rashes and uneven pigmentation, sometimes accompanied by itching.

Diseases, allergies, medications, cosmetics and lotions can increase photosensitivity, leading to some of the symptoms described. Photosensitizing diseases include Psoriasis (uncontrolled skin cell growth), Porphyria (severe, uncontrolled melanin production) and Lupus Erythematosys (swelling of nerve ends) Medications such as diuretics, birth control pills, antibiotics, tranquilizers and high blood pressure prescriptions, and other over the counter drugs may affect ones photosensitivity.

The safety and well being of your Salon clients is of the utmost importance, so if there is ever any doubt about an individual's photosensitivity, then please do not allow them to tan. If a reaction is noted or brought to your attention, suggest that your client checks with their physician. Always have your clients read and sign a consent form before a tanning program commences.

3.0 FEDERAL REGULATIONS

3.1 Guidelines for the Salon Owner and Operator

Many States are now actively enforcing Federal Regulations for Sunlamps and Sunlamp Products as defined by the US Department of Health and Human Services publication 21 CFR. These regulations have been in effect for many years and are common sense, minimum safety precautions that all of us in the Tanning Industry should welcome and support.

In the interests of promoting a safe tanning environment for our customers, Miracle Sun™ is including a simplified form of these guidelines in all User Manuals, and we are ready to help any Salon in demonstrating compliance in their Salon.

Federal Regulations for sunlamp products require compliance in the following categories:

- Labeling
- Timers
- Protection from UV lamps
- Certified UV lamps
- Protective eyewear
- Photosensitivity information

In addition to these mandatory Federal Regulations, we at Miracle Sun™ recommend the following health and safety precautions:

- Warning Posters
- Equipment Maintenance Logs
- Consumer Use Records
- Trained Operators
- Under age 14 prohibition
- Age 14 through 17 restrictions
- Pregnancy prohibition
- Contact Lens removal
- New and yearly client consultations

3.2 LABELING REQUIREMENTS FOR SUNLAMP DEVICES

3.2.1 Warning Labels (21 CFR 1040.20(d)(1))

- Labels must be affixed to all tanning systems in your salon, to inform the user of possible danger in their exposure to ultraviolet radiation.
- **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 ageing of the skin and skin cancer.
- **WEAR PROTECTIVE EYEWEAR. FAILURE TO MAY RESULT IN SEVERE BURNS OR LONG TERM INJURY TO THE EYES. DO NOT USE THE SUNBED IF ANY OF THE BLUE FILTERS ARE BROKEN**
- Medications or cosmetics may increase your sensitivity to ultraviolet radiation. Consult a physician, before using a sunlamp product, if you are using medications 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.
- Minimum use distance is 12 inches. Tanning may appear after one session provided your skin is capable of developing a tan. Allow 24 hours between sessions to obtain a base tan, and up to two times per week to maintain appearance. Note the recommended exposure schedule for this product. If you have a base tan you may start at Week 3 of the schedule.

Miracle Sun - Saturn

3.2.2 Recommended Exposure Schedule:

Skin Type	WEEK 1	WEEK 2	WEEK 3	MAXIMUM
Sensitive (I)	Not recommended	Not recommended	Not recommended	Not recommended
Light (II)	3 Minute	5 Minutes	7 Minutes	10 Minutes
Normal (III)	5 Minutes	7 Minutes	10 Minutes	12 Minutes
Dark (IV)	8 Minutes	10 Minutes	12 Minutes	12 Minutes

Skin Type I Sensitive. Burns easily and severely. Does not tan.
Skin Type II Light. Burns easily and severely. Tans minimally.
Skin Type III Normal. Burns moderately. Average tan.
Skin Type IV Dark. Burns minimally. Tans easily. Above average tan.

3.2.3 Identification Label

Each tanning device in your Salon must have a Manufacturer’s Label affixed to the device and contain the following information:

- Name and address of the Manufacturer
- Manufacturing Model Number and Serial Number
- Date of Manufacture - Month and Year

3.2.4 Certification Label

Each tanning device must have a label certifying that, at the time of delivery of the device, it complied to all applicable standards of the Federal Regulations 21 CFR.

For example:

THIS UNIT IS CERTIFIED TO COMPLY WITH ALL APPLICABLE FEDERAL PERFORMANCE STANDARDS FOR SUNLAMPS AND SUNLAMP PRODUCTS AS DETAILED IN THE UNITED STATES DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLICATION NUMBER 21CFR PART 1040.20. ONLY THE FOLLOWING LAMPS ARE CERTIFIED FOR USE IN THIS EQUIPMENT: HERAEUS OHM 800 E.

3.3 Federal Requirements for Timers:

Each tanning device is required to have a timer with a maximum timer interval that does not exceed the Manufacturer’s maximum recommended exposure time. This maximum exposure time is calculated from the results of precise and extensive measurements mandated by the FDA, using the recommended lamps for that particular device.

No timer interval shall have an error greater than 10%. For instance, if the timer is set to 10 minutes, it must time out between 9 and 11 minutes.

Each tanning device is required to incorporate a control that allows the user to manually switch off the lamps at any time during the session, even if the timer has not timed out.

3.4 Protection from Ultraviolet Lamps:

There shall be physical barriers to protect users of the tanning device from injury caused by touching the lamps, or by breakage of the lamps. The Saturn™ systems use two polished glass UV filters for safety plus acrylic covers for added protection.

3.5 Certified Ultraviolet Lamps

During the Federal Guidelines conformance process, the tanning device Manufacturer completed an exhaustive and precise evaluation of radiation safety using the UV lamps and optical filters designed for use with your particular tanning device.

The only way to ensure an equivalent lamp (and to protect your clients) is to compare that lamp with the original, by accurately plotting radiation output against wavelength. This comparison is the responsibility of the alternate lamp manufacturer and the FDA, and certification of the new lamp is provided only if the lamp is a true equivalent.

Use of non equivalent lamps is a safety hazard to your Clients, and it is the Tanning Salon owner's responsibility to ensure that only original equipment lamps are used, or true FDA certified equivalents.

The surest way to ensure the safety of your customers is to request the lamp manufacturer to provide the FDA conformance number, and for the Manufacturer or Importer of the tanning device to confirm equivalent lamps in writing.

This is probably the most important aspect of tanning safety in your salon, as the wrong lamps (or filters) could change completely the tanning pattern of your device - maximum exposure times and recommended initial exposure times etc. Please take the time to make an informed decision when your lamps need replacing. The original equipment manufacturers lamp for this product is the HERAEUS OHM 800 E.

3.6 Protective Eyewear

The FDA guidelines require that protective eyewear, that meets or exceeds the requirements of 21 CFR 1040.20, shall be provided for your clients.

It is the responsibility of the Salon Owner to provide each client with properly sanitized protective eyewear before each tanning session, with instructions for its mandatory use. There should be documentation in the salon to verify that the protective eyewear conforms to these Federal standards.

Protective eyewear must be properly sanitized before each use, using an effective sanitizing agent at the right temperature and for the correct length of time. A test kit or other device to measure the concentration of the sanitizing solution (at least daily) is recommended.

3.7 Prescription and non prescription drug information

Your Salon should maintain a list of common photosensitising agents available for inspection by your Clients.

Abnormal or increased sensitivity or burning may be caused by certain foods, medications, cosmetics or skin care products. Some prescription and non prescription drugs, including but not limited to tranquilizers, diuretics, antibiotics, hypertension medication and birth control pills may cause this effect.

Posters and leaflets are available from the Sun Tanning Association for Education. Telephone number (301) 698 9707.

Miracle Sun - Saturn

4.0 INSTALLATION REQUIREMENTS & GUIDELINES

4.1 Space Requirements

The Saturn is 101" high, 55" deep and 52" wide. However, for installation and maintenance of the sun booth, there should be a minimum clearance of 12 inches from the rear of the unit to the wall, and 18 inches clearance at the sides.

The minimum door size is 36 inches wide. Note that the bed is assembled in the room. The ventilation system uses 1 eighteen inch diameter, flexible exhaust tube, attached to the top of the unit and exiting through the ceiling of the room or directly to the outside air through the wall if available. 1 eighteen inch fan exhausts air through the flexible tube.

Note that the construction of the room should allow for a make up air flow of 3,500 cubic ft per minute (cfm). If the room is airtight, this will prevent the proper flow of exhausted hot air.

4.2 Electrical Requirements.

The supply voltage required is 240 Volts, 3 Phase, and Ground. At this voltage the load is approximately 50 Amps per Phase. Buck-boost transformers are required, to convert the salon voltage to 240 V, if 240 V is not available. For instance, Jefferson Electric at telephone number 1-800-892-3755, can supply 2 buck-boost transformers, catalog number 416-11, if the salon voltage is 208 VAC three phase. The cost for each transformer is approximately \$150, for a total cost to the Salon of \$300.

The customer is required to supply the appropriate 3 phase, 208/240V power, and ground connection, the circuit breakers, the buck-boost transformers if necessary and the wiring to the Saturn.

4.3 Ventilation Requirements

The hot air generated by the high pressure lamps is exhausted from the tanning room by one, high efficiency, 18" fan (supplied by Miracle Sun™) located at the top exhaust outlet.

A wire reinforced, opaque plastic tube is connected to the top of the unit, and fed through the tanning room ceiling, exhausting the forced hot air directly outside (roof or wall mounting), or simply to the ventilated space.

Care must be taken to allow approximately 3,500 cubic feet per minute of make up air back into the tanning room. If the make up air is blocked from entering the room, the partial vacuum created will reduce the efficiency of the hot air exhaust system.

4.4 Equipment Check List

Saturn Stand Up unit.

Accessories Case including:

User Manual
Eye Protection Goggles (2 pairs)

After unpacking, check for any visible damage that may have been caused during delivery of the equipment. Please retain the packing materials to support your claim for any damages.

4.5 Step by Step Installation Instructions

Refer to the separate Saturn, Step by Step installation Instructions with photographs

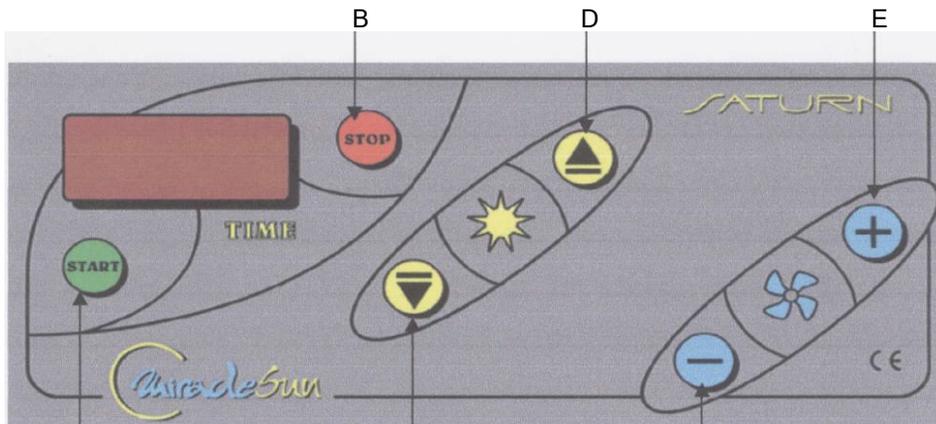
5.0 USER INSTRUCTIONS

5.1 Fundamental precautions:

- Do not touch or work on the equipment with damp or wet hands.
- Do not pull the power cables to help move the equipment.
- Do not allow moisture to damage the equipment.
- Do not allow the equipment to be used by children or without trained supervision.
- Do not switch on the equipment while unattended.
- Be aware that some of the internal electrical and optical components operate at high temperatures. So wait a few minutes, after switching off and before removing protective covers, to allow for the components to cool before touching them.
- During normal operation, the cooling fans will remain on for a period after the lamps are turned off. Do not interrupt this cooling cycle or components may be damaged and the effectiveness of the lamps reduced.
- The use of protective goggles is mandatory as is adherence to the posted exposure schedule.

5.2 Instructions for Use

- Stand in the center of the base unit, facing the Control Panel.
- Protect your eyes with the supplied goggles (remove any contact lenses)
- Press START to begin the tanning session. (The salon may use an external timer such as T MAX, in which case the Start Button will not be used)
- Adjust the position of the Facial Unit to allow for height differences.
- You may push the stop button (B) at any time to end the session
- Adjust the cooling to your comfort by pressing the fan + or - buttons (E).
- Adjust the facial lamp power with the lamp + or - buttons (D).
- At the end of your session the lamps will switch off automatically. Note that the equipment cooling lamps will continue to run for a time after the lamps are switched off.
- There is also an EMERGENCY RED PUSH BUTTON which will instantly remove electrical power from the equipment.



USER CONTROLS

EMERGENCY PUSH-BUTTON

In case of any emergency, pushing the Emergency Stop Button will remove all power from the sunbed components. The lamps will extinguish immediately, and the body and cooling fans will stop.

Reset the Emergency Stop Button, and the Ground Fault Interruption circuit breakers to start a new session.

EMERGENCY TIMER OVERRIDE

In case of a failure of the external session timer, or the internal digital timer, the equipment includes an emergency mechanical timer that will shut the bed off if the session time exceeds the maximum allowed time of 12 minutes.

6.0 PROGRAMMING

To initiate the Programming Mode at the Control Panel:

Simultaneously press Fan Plus(+), Fan Minus(-) and the Red Stop buttons

Release the Red Stop Button while continuing to press the other two buttons.

The machine will 'beep' and the word SET will be displayed

Release the other two buttons

The word TYP will be displayed

Press the green START BUTTON to step through the following 9 parameters. With the desired parameter selected, use the Blue Fan Plus(+) button to change values.

Display Symbol	Function Definition	Value Range
TYP	Not Used	N/A
LP	Not Used	10 to 40
GETS	Use Normal Mode GET0	GET0 or GET1
TEL	Local or Remote Timer (TMAX = TEL1)	TEL0 or TEL1
LET	Not Used	LET0 or LET1
PED	Not Used	PED0 or PED1
RIT	Not Used	RIT0 or RIT1
NOW	Lamp use in Hours	XXX
PIST	Not Used	PIST

Set TEL to TEL1 to activate the remote T-Max timer

Wait 10 seconds for the display to reset after making any changes to the programming. The display will then start scrolling the Logicam logo.

7.0 PREVENTIVE MAINTENANCE AND CLEANING

Disconnect electrical power from the equipment before working on any part of the sunbed.

- To clean the external structure use only a soft cloth, clean water and neutral soap if necessary. Never use alcohol or chemicals or abrasives of any kind.
 - Clean the UV filters only with alcohol or proprietary glass cleaners. Never use abrasives. After cleaning, check the integrity of the adhesive that keeps the filter in place. Replace as necessary.
 - Do not touch the lamp glass, even when cold. Remove touch prints with a clean soft cloth moistened with alcohol if necessary. Clean the lamps and reflectors with a dry, soft brush or lint free cloth.
 - Check the uninterrupted flow of cooling air.
1. The lamps should be replaced approximately every 1,000 hours of operation.
 2. Periodically verify the operation of the lamp cooling fans.
 3. Do not obstruct air vents with towels etc..
 4. Do not interrupt the 3 or 4 minute cooling cycle between sessions.
 5. Periodically lubricate all moving parts.
 6. Check and log the lamp output weekly.
 7. Periodically check the correct operation of the Emergency Push Button, the override timer and the calibration of the external timer.

7.1 BEFORE EACH TANNING SESSION. SANITIZE

- Thoroughly clean and sanitize the unit, particularly the base unit.
- Clean the clear glass filters.
- Clean the Control Panel.

7.2 EVERY 50 HOURS (WEAR PROTECTIVE GOGGLES) LOG UV OUTPUT

- Measure and log the power output of each lamp at the maximum reading points along the lamp assemblies. Compare with the readings at installation.
- Check that there are no broken or misaligned clear or cobalt blue filters. Replace immediately if any are broken.

7.3 EVERY 200 HOURS - CLEANING THE UV FILTERS

- Unlock each lamp assembly at both ends. Carefully open the filter assembly for access to the clear and cobalt blue filters.
- Slide out the clear filter first and then the blue filter from their slots. Gently clean both with an alcohol moistened soft cloth and replace in the housing.
- Take this opportunity to clean each reflector and lamp with a soft brush or alcohol moistened soft cloth. Do not touch the glass of the lamps or the parabolic reflectors. Remove any accidental finger prints from the lamps or reflectors with the alcohol moistened soft cloth.
- Replace the filter assembly carefully and lock into position. Wear protective goggles before starting the unit to check ignition on all lamps and the integrity of all filters.

7.4 REPLACEMENT OF THE UV FILTERS

- Unlock each lamp assembly at both ends. Carefully open the filter assembly for access to the clear and cobalt blue filters.
- Remove the filter to be replaced. Gently clean with an alcohol moistened soft cloth and insert the replacement filter.
- Replace the filter assembly carefully and lock into position. Wear protective goggles before starting the unit to check ignition on all lamps and the integrity of all filters.

7.5 LAMP REPLACEMENT

- Remove the appropriate filter assembly as in 7.3
- Remove the lamp by pulling it gently forward out of the lamp socket, while holding the lamp with a soft cloth.
- Insert the new lamp in a similar way
- Do not touch the glass of the lamps or the parabolic reflectors. Remove any accidental finger prints from the lamps or reflectors with the alcohol moistened soft cloth.
- Lock the filter assembly back in position

7.6 CERTIFIED ULTRAVIOLET LAMPS

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The original equipment lamps for the Saturn system are the HERAEUS OHM 800 E

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7.7 SAMPLE MAINTENANCE LOG SHEET

1) Date: _____		hours operation: _____
Maintenance Category (description): _____		
Measure U.V. Radiation	Check air filters	Replace lamps
Check lamp cooling fans	Exhaust system	Replace filters U.V.
Check external timer	Push-button Emergency	Replace acrylics
Check UV Filters	Clips connection	Replace Igniters
Lubrication of moving parts	Timer emergency	Replace reflectors
Technician _____	Manager _____	

1) Date: _____		hours operation: _____
Maintenance Category (description): _____		
Measure U.V. Radiation	Check air filters	Replace lamps
Check lamp cooling fans	Exhaust system	Replace filters U.V.
Check external timer	Push-button Emergency	Replace acrylics
Check UV Filters	Clips connection	Replace Igniters
Lubrication of moving parts	Timer emergency	Replace reflectors
Technician _____	Manager _____	

1) Date: _____		hours operation: _____
Maintenance Category (description): _____		
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Check UV Filters	Clips connection	Replace Igniters
Lubrication of moving parts	Timer emergency	Replace reflectors
Technician _____	Manager _____	

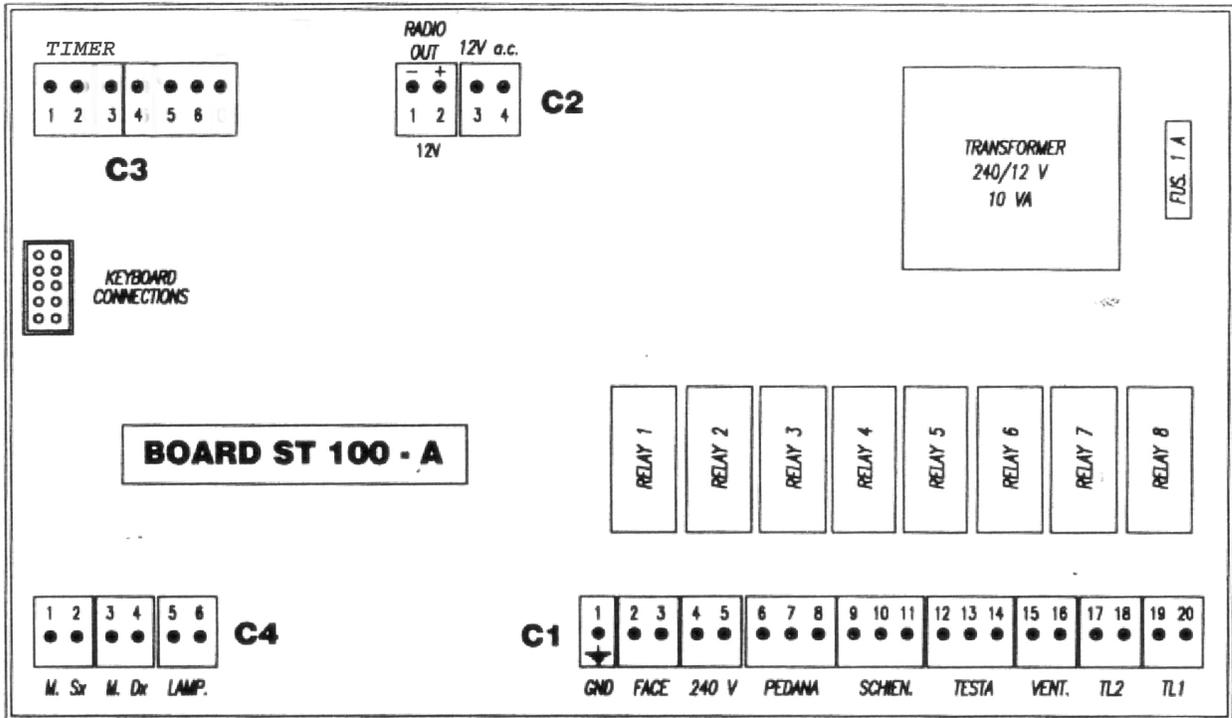
1) Date: _____		hours operation: _____
Maintenance Category (description): _____		
Measure U.V. Radiation	Check air filters	Replace lamps
Check lamp cooling fans	Exhaust system	Replace filters U.V.
Check external timer	Push-button Emergency	Replace acrylics
Check UV Filters	Clips connection	Replace Igniters
Lubrication of moving parts	Timer emergency	Replace reflectors
Technician _____	Manager _____	

8.0 T-MAX CONNECTIONS

Connect the T - MAX timer to pins 1 and 2 on the printed circuit board

On the top left portion of the board (C3), you will see a section labeled "TIMER". This is a green plug with 3 terminals.

The timer connection, (normally a two-lined speaker wire) will make contact with terminals 1 and 2. (These are labeled terminals 16 and 17 on the actual printed circuit board.)



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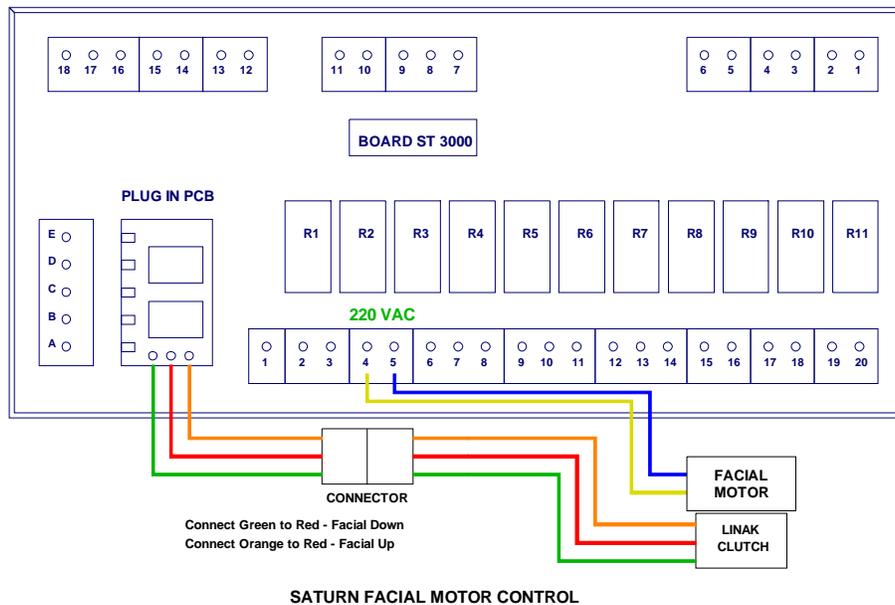
9.0

TECHNICAL SPECIFICATIONS

Model Number	Saturn Stand Up
Dimensions	101" high by 55" deep by 52" wide
Minimum Room Dimensions	9' by 9' (Recommend 12' by 12')
Total Power	18 KW
UV Lamps	18 x 800W HERAEUS OHM 800 E.
Power Supply	240 VAC, 3 Phase + Ground, 60 Hz
Load	45 Amps per phase at 240V
Make up air required	3,200 cubic ft/min
UV Filter (blue)	Duegi s.a.s. UV Sun 90 3mm
Maximum exposure time	12 minutes
Exhaust Ignitors	One flexible tube, diameter 18 inches. Max length of 16ft. Bag Turgi. NT1000LE 230V
Features:	Vertical high pressure lamps Ultra high output glass filters by Hereaus 4 levels of body cooling High Fidelity CD Player and twin speakers Easy access component trays Temperature sensors LCD graphic display LCD Diagnostic message center 360° tanning experience Hydraulic Adjustable Facial Unit

10.0 TROUBLE SHOOTING

10.1 Facial Motor not Operating



With power on the Saturn and the main circuit breaker switched on, check 220 VAC on pins 4 and 5 of the printed circuit board ST3000.

If the 220 VAC is there, unplug the small printed circuit board in the lower left hand corner of the ST3000. With this small PCB disconnected from the main board, try shorting out Green wire and Red wire on the connector. If the motor and Linak are operating correctly, the facial unit will motor down. Now short out the Orange to the Red wire and the facial should motor up.

Check the connector to the Linak Clutch if there is no movement of the facial, and also that the 220 VAC is getting to the motor.

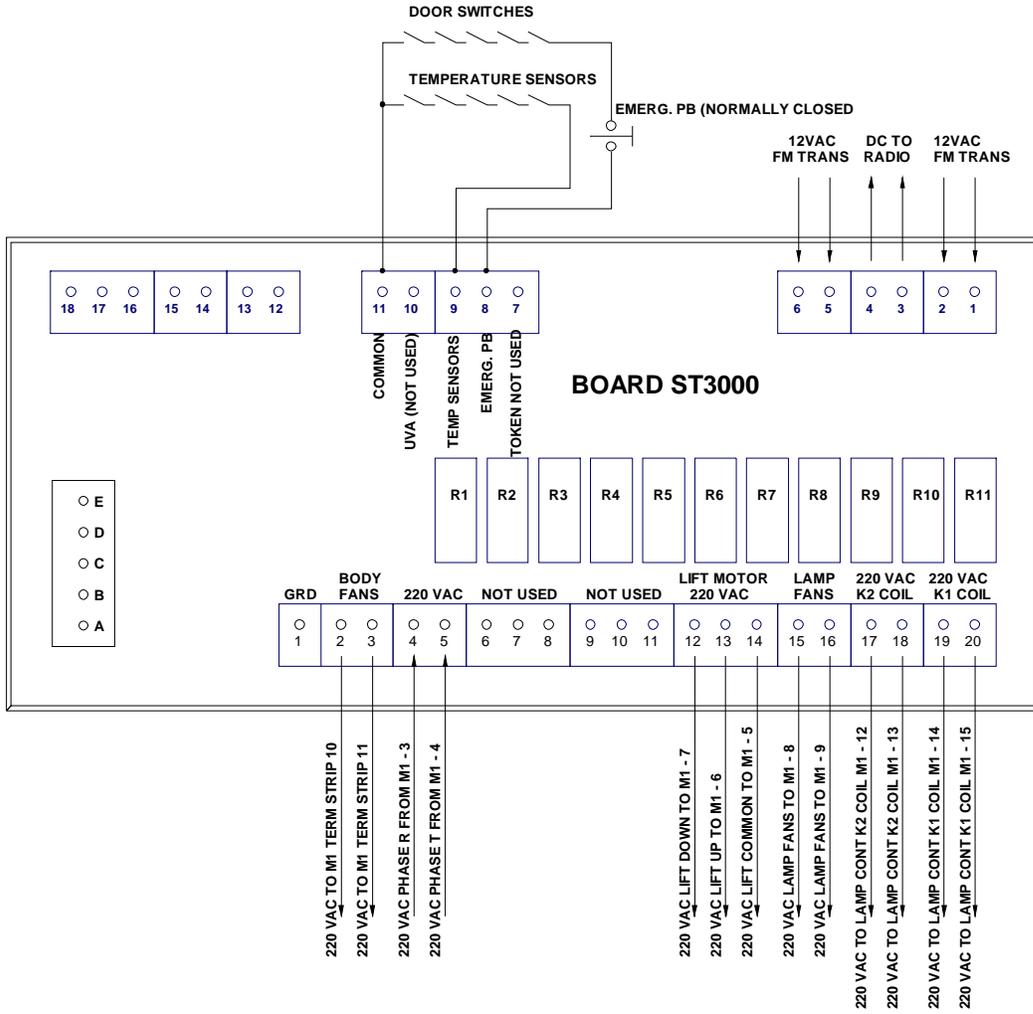
Having established that the Motor and Clutch are OK, if the control of the facial movement, from the touch pad, still does not work, check the Touch Pad, the ribbon cable to the ST3000 board and the small plug in PCB at the bottom left corner of the board. Try replacing this board or the ST3000

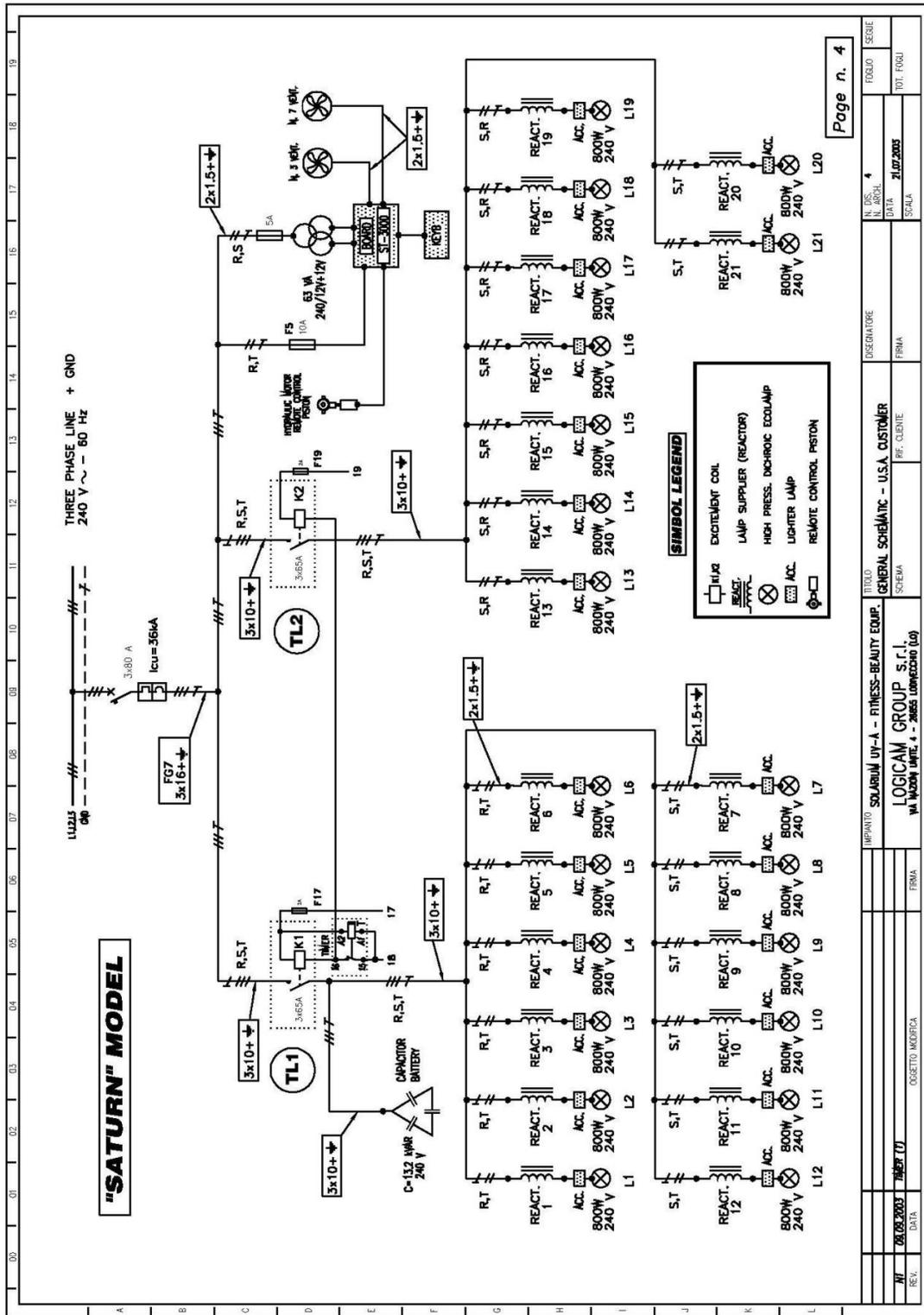
SAMPLE CUSTOMER CARD

Name: _____ Skin Type: _____

N°	Date	Tanning Equipment Used	Exposure time in minutes	Comments
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
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25				

ST 3000 Printed Circuit Board





REV.	08.08.2003	TRIPPT (U)	FRMA	OGGETTO: MODIFICA	FRMA	TITOLO: SOLARIUM UV-A - FITNESS-BEAUTY EQUIP.	TITOLO: GENERAL SCHEMATIC - U.S.A. CUSTOMER	USER/ITERATORE	N. DIS. N. ARCH.	FOGLIO	SEGRE
REV.						LOGICAM GROUP S.r.l. VA MADONNINA, 4 - 20055 CORCHIO (LO)	SCHEMA	FRMA	DATA: 21.07.2003	TOT. FOGLI	

