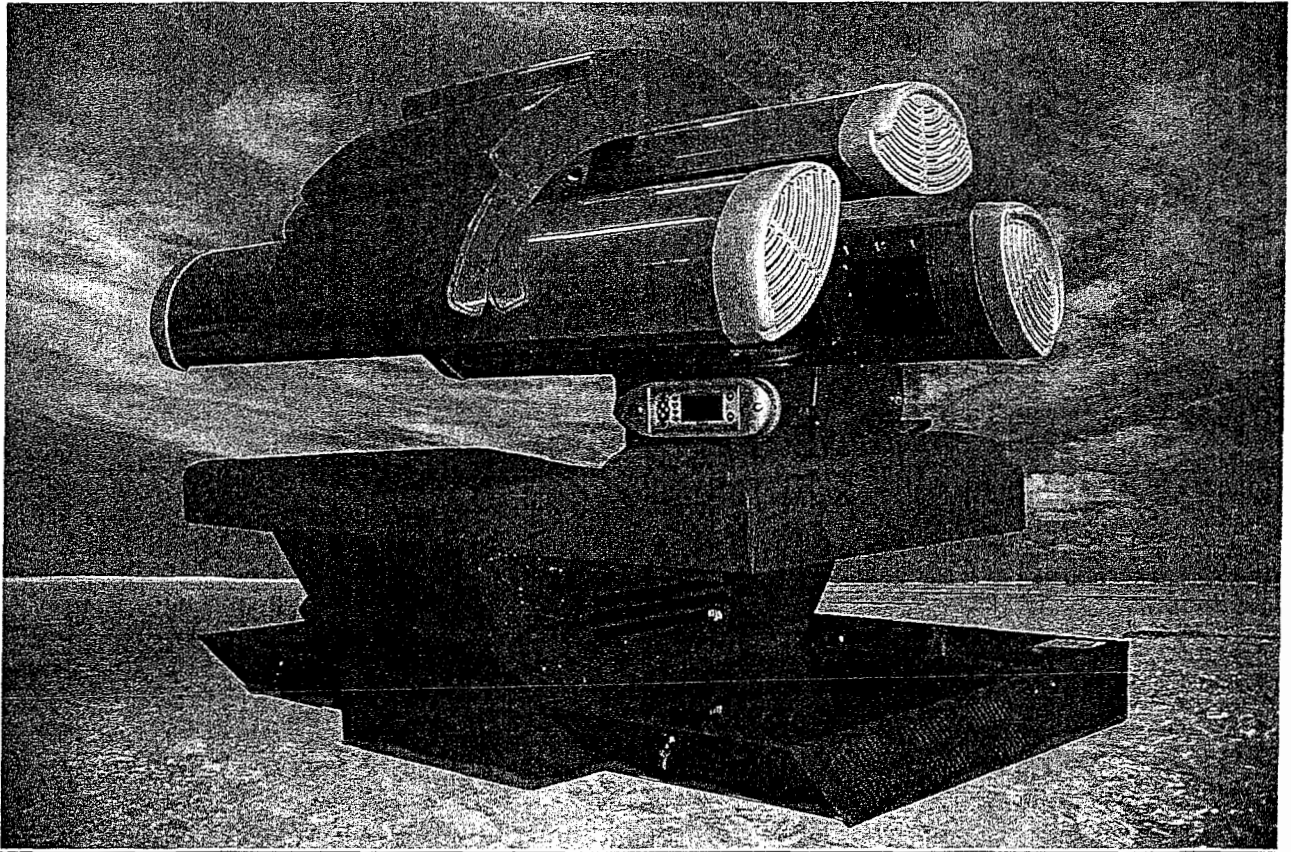


#2

SUN ITALIA

Technical Handbook
And
User Manual

MAGIC 318



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 SunSport Platinum, distributed in North America exclusively by TanTech, combines a futuristic Italian design with state of the art components to offer your Salon clients a truly unique tanning experience.

With its breathtaking open design (no claustrophobia for even the most sensitive of customers), adjustable control of each of the high pressure lamps (for a comfortable tan for all skin types and extended lamp life) and a contoured tanning surface, your clients are sure to be delighted by the comfort and the effectiveness of their 24 minute tan (12 minutes maximum each side). And the advanced body cooling, integrated ventilation system ensures a really cool experience.

SunSport Platinum is the first commercially available sun tanning system to offer individual UV output control of all of the lamps - individually! So by reducing the output of new lamps initially, and increasing the output gradually to compensate for the slowly deteriorating lamps, the Salon owner is able to provide a consistent tanning environment for clients over the useful life of the lamps - plus increase the lamp life substantially by not overdriving the lamps initially.

Further, with the ability of the user to decrease overall lamp output from the standard setting, the differing skin types can fine tune to just the tan desired.

So to recap:

Individual electronic control of the lamp output will increase the useful lamp life and reduce power consumption plus allow all skin types to adjust the output to their individual preferences.

2.0 SAFETY WARNINGS

2.1 Photosensitivity - know the symptoms

2.2

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.

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.

3.2.2 Recommended Exposure Schedule (per side):

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	10 Minutes
Dark (IV)	8 Minutes	10 Minutes	10 Minutes	10 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: B.L.V. MHL 1200 23110602.

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, anti biotics, 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.

4.0 INSTALLATION REQUIREMENTS & GUIDELINES

4.1 Space Requirements

The sunbed is 86" long, 65" deep and 81" high. However, for installation and maintenance of the bed, there should be a minimum clearance of 12 inches from the rear of the bed to the wall, and 18 inches clearance at both ends.

The recommended room size is 12 ft by 12ft with a minimum of 9ft by 9ft if necessary. The minimum door size is 36 inches wide. Note that the bed is assembled in the room.

A step up transformer is supplied with the sunbed. This should be placed near the sunbed without blocking access to the rear of the bed and the electronics tray at the base. The dimensions of the transformer are 24 inches by 14 inches by 24 inches tall. The TanTech™ supplied disconnect box is mounted on the transformer.

The ventilation system uses one twelve inch diameter, flexible exhaust tube, attached to the rear of the bed and exiting through the ceiling of the room or directly to the outside air through the wall if available. A twelve inch fans exhaust air through the flexible tube. The integral body cooling system includes a coupling to allow the salon to, optionally, connect cool air to the system.

Note that the construction of the room should allow for a make up air flow of 1,500 cubic ft per minute (cfm). If the room is airtight, this will prevent the proper flow of exhausted hot air.

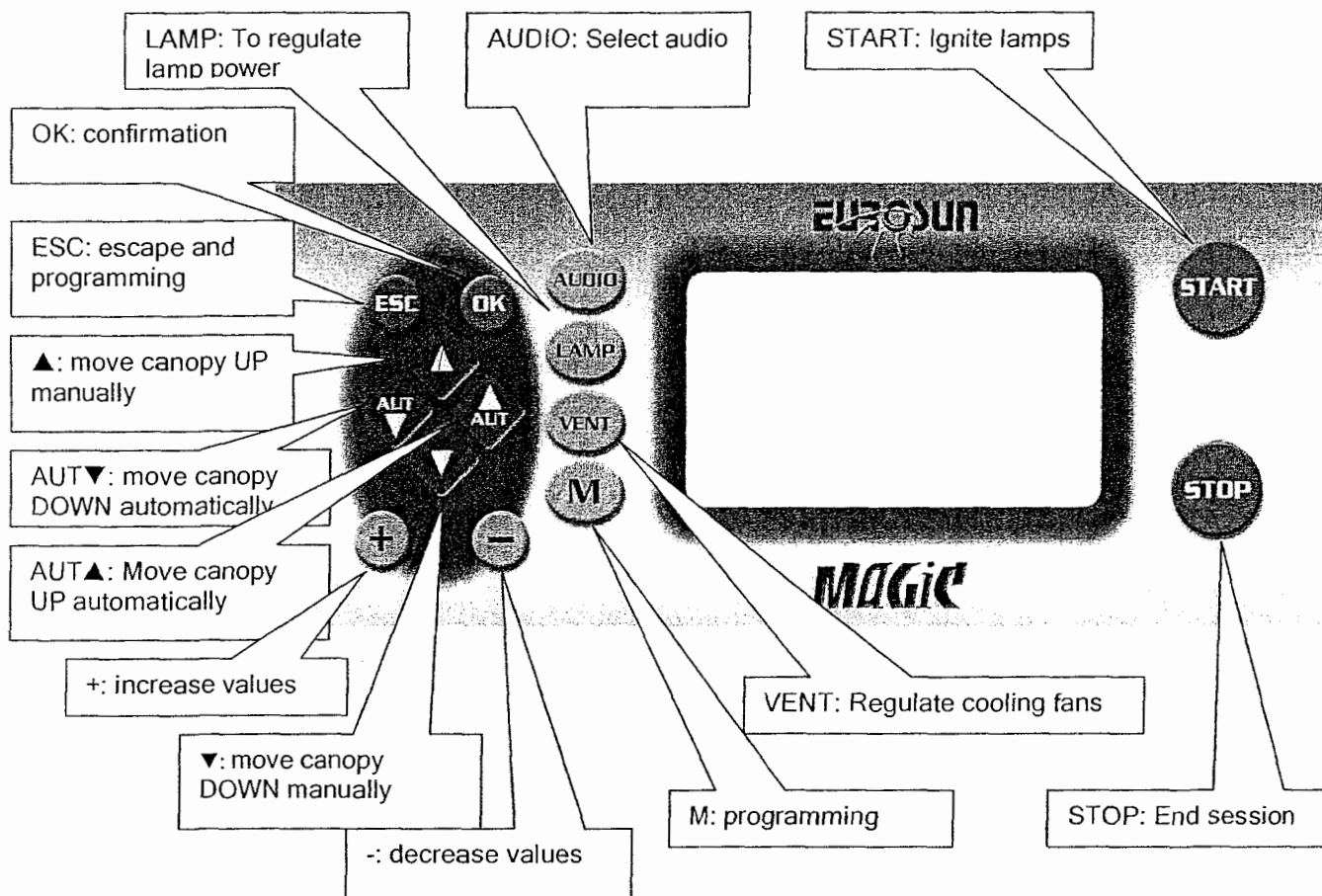
4.2 Electrical Requirements (refer wiring diagram attached)

- The supply voltage required is 208 to 240 Volts, 3 Phase and Ground. At 208V the load is 50 Amps per Phase and at 240V it is 44 Amps per Phase. The equipment draws approximately 28 Amps per phase on the secondary side (380V) of the supplied transformer.
- The customer is required to supply the appropriate 3 phase, 208/240V power and ground connections, the circuit breakers, and the wiring to the TanTech™ supplied power transformer. TanTech supplies the wiring from the secondary of the transformer (380V, 3 Phase plus Ground plus Neutral) to the TanTech™ supplied, transformer mounted, Emergency Disconnect Box .
- Sun Italia will supply a 10ft, 380V, 3 Phase Neutral and Ground, flexible cable from the base of the sunbed to this same TanTech™ supplied, transformer mounted Emergency Disconnect box which is activated by the Emergency Stop Button or the back up timer on the Sunbed.

4.3 Ventilation Requirements

5.2 Instructions for Use

- Lie down comfortably on the contoured mattress, with your head supported by the pillow.
- Protect your eyes with the supplied goggles (remove any contact lenses)
- Press START to begin the tanning session. (Note salon may use external timer (T MAX), in which case the Start button is disabled)
- Push the DOWN arrow to lower the canopy
- You may push the stop button at any time to end the session
- Adjust the cooling to your comfort with the + or - buttons.
- Adjust the lamp power by pressing LAMPS and using the + or - buttons.
- At the end of your session the lamps will switch off automatically and the canopy will be raised. 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. To raise the canopy under battery control, simply push the Emergency Button one more time.



Select Radio or CD Player, or switch off all audio:



ALWAYS SELECT THE CD PLAYER AS THE SOURCE ON USA AND CANADIAN MODELS

Exit automatically after several seconds or press the Esc button.

Then go to the controls on the CD Player/Radio to select CD or Radio with the Function Button, and to control the CD Player or the radio tuning and volume etc.

EMERGENCY PUSH-BUTTON

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

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

If there is a power failure during a session, again all power will be removed from the equipment. However, to raise the canopy under battery power requires that the Emergenct Push Button is activated.

QUICK CHECK OF EQUIPMENT USAGE

Press the buttons below to check some of the equipment parameters. This is done with the bed in standby mode (power applied to the bed but lamps off) and it may be necessary at times to hit the button more than once.

LAMP	=	TOTAL HOURS LAMPS IGNITED
VENT	=	TOTAL MINUTES
MASS	=	TOTAL SESSIONS

It exits automatically after 5 seconds.

CHECK HOURS TO NEXT MAINTENANCE EVENT

It is possible to set the number of hours of use (entered by the technician) before the next maintenance event, for instance, the number of hours before the lamps should be replaced. When the number of hours used is reached then the following message appears as a reminder:

SERVICE HOURS CHECK

HOURS TO MANDATORY SERVICE BLOCK

This is similar to the CHECK HOURS but in this case the equipment cannot be operated once the hours to the mandatory service (entered by the technician) have been reached. The BLOCK HOURS must be entered by the technician (after the manadatory maintenance has been completed) to start using the equipment again.

SERVICE HOURS BLOCKED

6.2 PROGRAMMING BY THE TECHNICIAN

To initiate the Technician Programming Mode (Service Programming), press and hold in the following buttons:

ESC, OK and ▼AUT

The SERVICE PROGRAMMING box will be displayed and you can now press the ▲AUT button to step through each of the programming functions.

MAX TIME BODY MINUTES Set with the + and - buttons (1 - 40)

Normally set to 20 which prevents the User and the Salon Operator from programming a session greater than 20 minutes. Press the ▲AUT button to step to the next function.

BLOCK HOURS Set with the + and - buttons (10 - 990)

Normally set to 600 which prevents the lamps being switched on after 600 hours of use, until the BLOCK HOURS are reset in the Service Mode. This function is useful if the sunbed is leased and payment is due after so many hours.

CHECK HOURS Set with the + and - buttons (10 - 990)

Normally set to 100 to remind the Technician of the next service event, for instance, cleaning the UV filters. When the 100 hours is reached, there will be a reminder on the display.

LANGUAGE Fixed at ENGLISH in USA Models

MACHINE CODE Set with the + and - buttons (0 - 9 and A - Z)

Not used in the USA Models

TIME OF SECOND START IN SECONDS Set with the + and - buttons (2 - 180 even #'s)

Normally set to 14 or 16 seconds which is the delay before the second set of lamps ignites.

COOLING TIME Set with the + and - buttons (1 - 10)

Normally set at 3 which is the number of minutes that the lamp cooling fans stay on after the lamps switch off at the end of a session.

LAMP LEVEL Set with the + and - buttons (1 to 8)

Select the lamps (refer lamp numbering diagram in this manual) by stepping through from 1 to 15 with the ESC button, and adjusting the lamp output (from a low of # to a high of #####) with the + and - buttons. (Refer diagram on Page 27)

TOTAL HOURS Read only. Total hours recorded.

CHECK HOURS Read only. Set by Technician for next service.

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 body acrylic and the head rest.
- Clean the 3 horizontal lamp acrylics.
- 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 horizontal acrylics. 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

- Carefully remove each horizontal acrylic by removing the two plastic end caps on each lamp assembly (secured by one screw each). Slide the acrylic to the left or right if you have room, or bend each acrylic along its length, and remove it from the front of each lamp assembly.
- The filter housings in each assembly are secured with one screw. Simply loosen this screw and push the individual filter assembly to the right and pull each assembly forward. Each filter assembly slots into two holes so by moving the assembly to the right you allow the filter assembly to be released.
- Slide out the clear filter first and then the blue filter from their spring loaded 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. Remove any accidental finger prints from the lamps with the alcohol moistened soft cloth.

7.7 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 UV 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.

1) Date: _____ hours operation: _____
 Maintenance Category (description): _____

<input type="checkbox"/> Measure U.V. Radiation	<input type="checkbox"/> Check air filters	<input type="checkbox"/> Replace lamps
<input type="checkbox"/> Check lamp cooling fans	<input type="checkbox"/> Exhaust system	<input type="checkbox"/> Replace filters U.V.
<input type="checkbox"/> Check external timer	<input type="checkbox"/> Push-button Emergency	<input type="checkbox"/> Replace acrylics
<input type="checkbox"/> Check UV Filters	<input type="checkbox"/> Clips connection	<input type="checkbox"/> Replace Igniters
<input type="checkbox"/> Lubrication of moving parts	<input type="checkbox"/> Timer emergency	<input type="checkbox"/> Replace reflectors

Technician _____ Manager _____

1) Date: _____ hours operation: _____
 Maintenance Category (description): _____

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Technician _____ Manager _____

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Technician _____ Manager _____

1) Date: _____ hours operation: _____
 Maintenance Category (description): _____

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<input type="checkbox"/> Check lamp cooling fans	<input type="checkbox"/> Exhaust system	<input type="checkbox"/> Replace filters U.V.
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Technician _____ Manager _____

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 Maintenance Category (description): _____

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<input type="checkbox"/> Lubrication of moving parts	<input type="checkbox"/> Timer emergency	<input type="checkbox"/> Replace reflectors

Technician _____ Manager _____

9.0

TECHNICAL SPECIFICATIONS

Model Number	SunSport Platinum
Dimensions	86" long by 65" deep by 81" high
Tanning Surface	77" by 39"
Minimum Room Dimensions	9' by 9' (Recommend 12' by 12')
Total Power	18 KW
UV Lamps	15 x 1,200W B.L.V. MHL 1200 23110602.
Power Supply	208 - 240 VAC, 3 Phase + Ground, 50 - 60 Hz
Load	50 Amps at 208V, 44 Amps at 240V 28 Amps at 380V on the Secondary side of the transformer.
External Transformer	208/240 to 380V 3 Phase Transformer. 24" x 14" x 24" 250lbs
Make up air required	1,500 cubic ft/min
UV Filter (blue)	Euroelektrica 240 x 270 mm. Tonianticato 3mm
UV Filter (clear)	Euroelektrica 240 x 270 mm. Tempered glass 3mm
Maximum exposure time	12 minutes each side
Exhaust	One flexible tube, diameter 12 inches (300 mm). Max 16 ft.
Features:	8 digitally controlled power levels for the lamps 4 levels of body cooling High Fidelity CD Player and twin speakers 2 stage voice prompt system Easy access component trays Individual safety switch for each UV filter Temperature sensors LCD graphic display LCD Diagnostic message center Contoured mattress with built in massage

intensity and RST levels to your liking, in the programming mode.

Before replacing any printed circuit boards, please follow the above instructions.

If board replacement is necessary eventually, the most probable cause is the TRIAC 12 board.

Note that in both the Magic and the Platinum, the design allows for 15 individual TRIACS, which are the devices that allow adjustability of the lamps.

With only 15 lamps in the Platinum, each lamp is assigned one TRIAC for individual control of each of the 15 lamps. In the Magic, 3 of the TRIACS are assigned to individually control the 3 face lamps, and 12 TRIACS are assigned to 24 of the other lamps which are regulated in pairs. That leaves 3 lamps which are not regulated – 2 at the foot of the bed and one under the pillow.

Below are the instructions for measuring the lamp variation voltages on the TRIAC Board

10.3 To Measure the Lamp Intensity adjustment voltages

Referring to the diagram (below) of the TRIAC and AUX boards:

Note that the TRIAC board has 4 TRIAC output connectors for each of the 3 phases, R, S and T. On the left side of the board you can see 4 U.S.G connectors (phase S), 4 U.T.G. connectors at the top of the board (phase T) and 4 U.R.G. connectors on the right side (phase R)

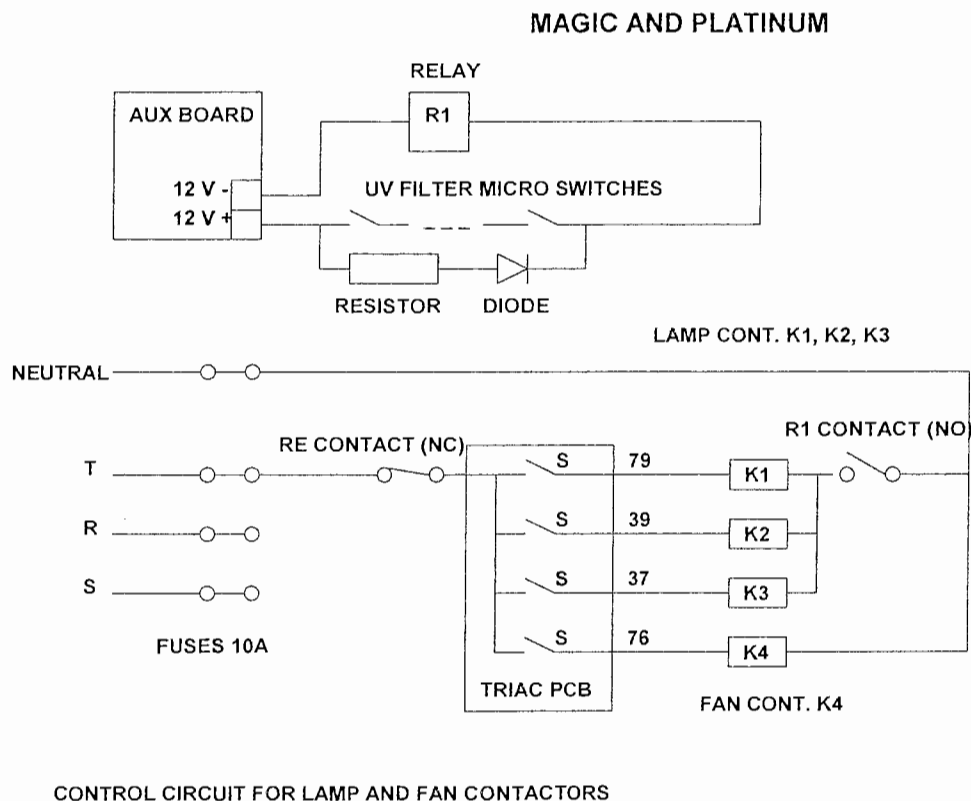
On the AUX board, there are 3 TRIAC output connectors, one for each of the phases R, S and T. One each U.R.G., U.S.G. and U.T.G which are the lamp controlling connectors to the facial lamps 1, 2, and 3.

There are a total of 4 measurements which indicate that the lamp control is working for all of the phases and for all of the lamps:

Initially set the RST programming to 0 and then, on the AUX board, measure between phase R (you can pick this up from K1 lamp contactor, and phase R is closest contact on K1 to the front of the bed) and the U pin of the U.R.G. connector. See diagram which shows the volt meter connections. This should read approximately 230 VAC at lamp intensity (user control) Level 8, and approximately 207 VAC (about a 10% drop) if you use the LAMP MINUS button to reduce the lamp intensity to Level 1. Now if you program the RST setting to 255, the maximum and minimum readings should now be 230 VAC and 186 VAC (about a 20% drop).

Similarly, on the TRIAC board, take the same voltage measurements at one of the 4 connectors for each of the 3 phases.

10.4 Lamps not Igniting - lamp contactors fail to energise



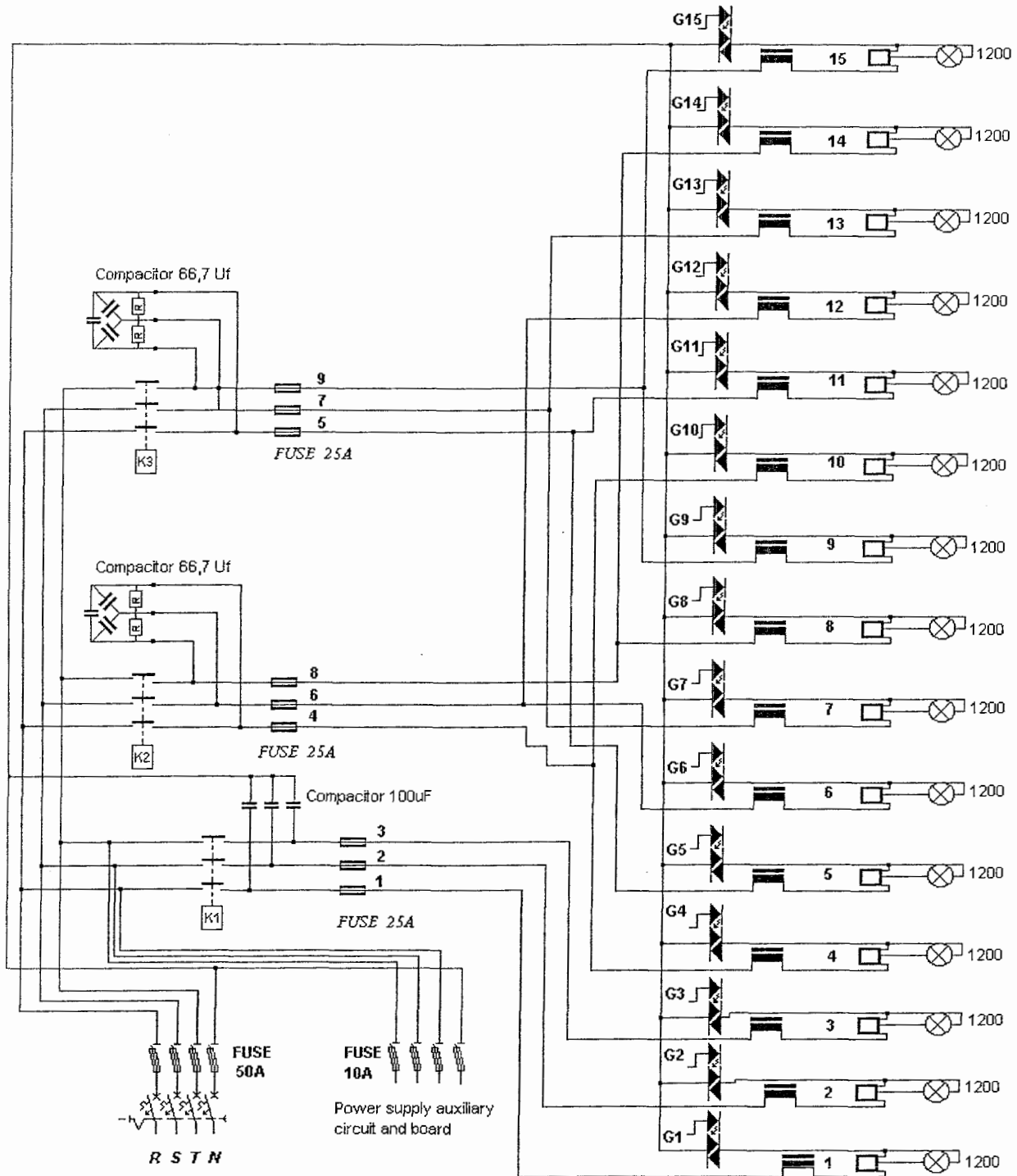
When the START button is pushed (or the T-Max external timer is switched on), the Lamp Contactors (K1, K2 and K3) and the Fan Contactor (K4) are energized. K1 allows the 240VAC to ignite lamps 1, 2 and 3, K2 ignites lamps 4, 4A, 6, 6A, 8, 8A, 10, 10A, 11, 11A, 12, 12A, 14, 14A and 17. K3 ignites lamps 5, 5A, 7, 7A, 9, 9A, 13, 13A, 15, 15A, 16 and 16A.

K4 provides 240 VAC to the Body Fans and the Lamp and Triac Cooling Fans.

Relay R1 is energized by the 12 VDC from the AUX Printed Circuit Board as long as the 30 UV filter micro switches are closed (Blue filters all in place).

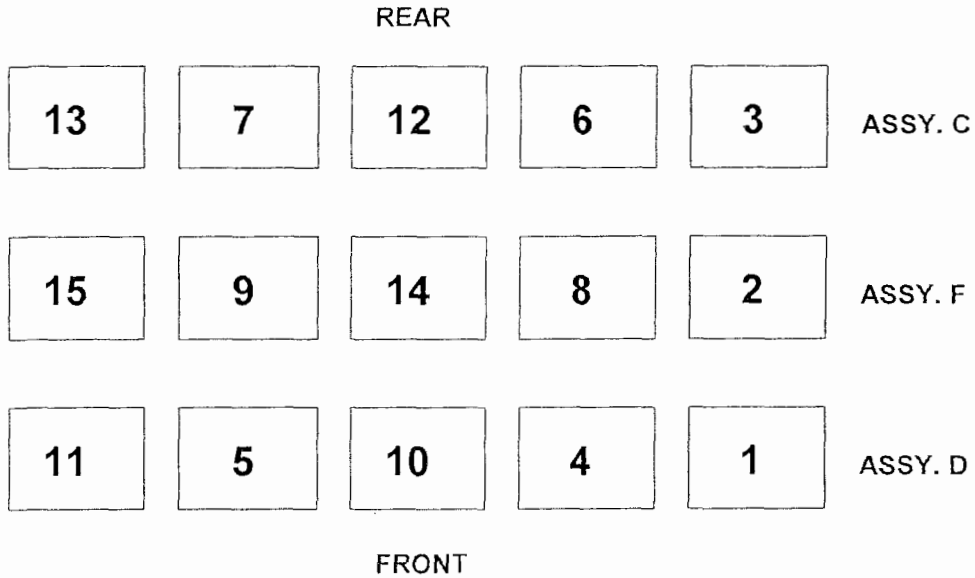
- vii. The contact of Relay R1 allows the Neutral wire to be connected to K1 - K3, the Hour Meter (C) and the Backup Timer Ta. Note that the K4 Neutral goes direct to K4. The fused Phase T routes 220VAC to K1 - K4, C and Te when the electronic switches S (on the TRIAC PCB) are switched on in the Start sequence, providing contact RE (Emergency button and Backup Timer) is not activated. This is a normally closed contact and will remove the 220VAC if the Emergency Button is pushed or the Backup Timer activates.

LAMP CIRCUITS



SUNSPORT PLATINUM LAMP NUMBERING

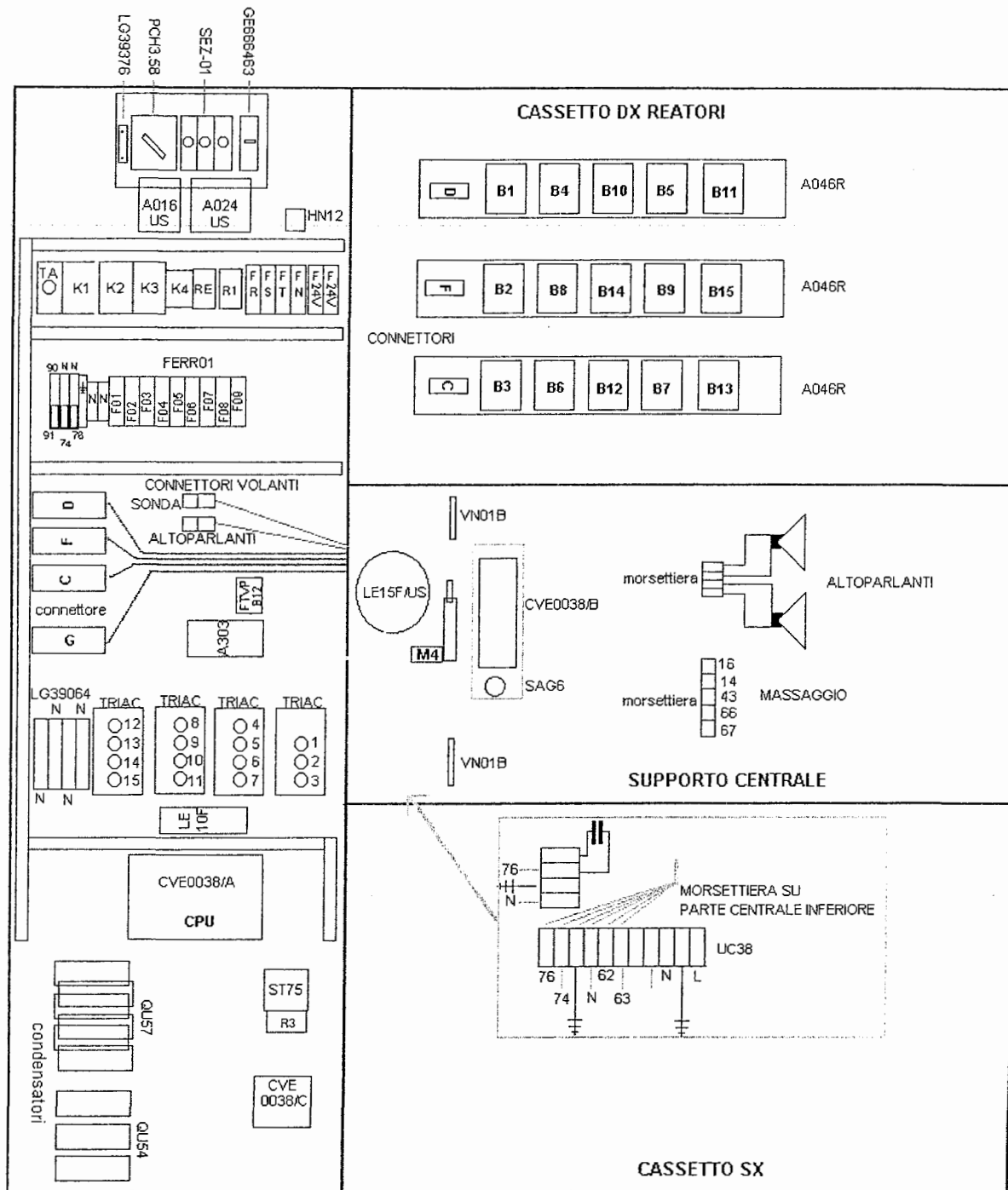
The number of the lamp (1 to 15) corresponds to the lamp number in the Service Programming instructions for adjusting the output of each lamp. Refer Section 6.0 of this manual.



LAMP ADJUSTMENT FOR SUNSPORT PLATINUM

Lamp	1	2	3	4/10	5/11	6/12	7/13	8/14	9/15
Fuse	F1	F2	F3	F4	F5	F6	F7	F8	F9
Phase	R1	S1	T1	R2	R3	T2	T3	S2	S3

PLATINUM RIGHT HAN EQUIPMENT TRAY



CASSETTO QUADRO

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				
17				
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