

48 MONTH "GOLD MEDAL" WARRANTY

Your ETS Distributor (including ETS, LLC if purchased directly), through a manufacturer's warranty, warrants your tanning unit to be free of structural defects in material and workmanship, under normal use, for its lifetime. Your ETS Distributor will, at its discretion, repair any structural defect which materially affects the performance of the tanning unit, or replace the tanning unit.

For forty-eight (48) months following the purchase date of your tanning unit, your ETS Distributor will provide replacements for parts that prove to be defective in material or workmanship, with the following exceptions: gas springs, ballasts and electronic lamp starters are warranted against manufacturer's defects for a period of one (1) year; "glow tube" lamp starters and cracked or broken endcaps are warranted against manufacturer's defects for a period of ninety (90) days; fluorescent lamps are warranted against manufacturer's defects for a period of thirty (30) days; acrylics are warranted against manufacturer's defects for a period of one (1) year (prorated) following the purchase date of your tanning unit. Shipping charges will be covered during the first ninety (90) days following the purchase date.

Your ETS Distributor (including ETS, LLC if purchased directly), also extends to you a two (2) year parts warranty on all T-Max[®] remote system components. External voltage transformers (buck-boosters) are covered by a one (1) year parts and labor warranty, provided you send back the defective transformer.

Labor costs associated with repair or replacement work covered by this warranty will be reimbursed for repair or replacement work required to be performed for a period of ninety (90) days following the shipping date of your tanning unit. Normal wear and tear, damage from misuse or abuse, damage incurred in transit or damages resulting from unauthorized repairs or modifications are not covered by this warranty. Warranty coverage does not include cosmetic abnormalities such as scratches, nicks, dents, or other cosmetic changes that do not materially interfere with the function of the tanning unit.

THIS 48 MONTH "GOLD MEDAL" WARRANTY IS EXPRESSLY MADE IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. No one has the authority to change or modify this 48 Month "Gold Medal" Warranty in any respect. To obtain service under this 48 Month "Gold Medal" Warranty, contact your authorized ETS Distributor (or **ETS, LLC** if purchased directly). Proof of purchase, including serial number, is required.

IN NO EVENT SHALL YOUR DISTRIBUTOR OR THE MANUFACTURER BE LIABLE AT LAW OR IN EQUITY FOR ANY LOSS, LIABILITY, DAMAGE OR EXPENSE IN AN AMOUNT IN EXCESS OF THE PURCHASE PRICE RECEIVED, OR FOR LOSS OF USE OR PROFITS, LOSS OF TIME, INCONVENIENCE, RENTAL OR SUBSTITUTE PRODUCTS, LOSS OF BUSINESS, LOSS OF INCOME, OR ANY OTHER INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages, and the above limitation or exclusion will not apply to residents of some states. This 48 Month "Gold Medal" Warranty gives you specific, legal rights and you may have other rights which may vary from state to state.

All warranty service must be performed by an authorized service person using only ETS authorized replacement parts. Use of non-authorized parts may void your warranty. All labor charges must be authorized by your ETS Distributor prior to the start of repairs and must not exceed the established rates and time allotment policies established by your ETS Distributor. If your tanning unit must be returned for service within thirty (30) days from the purchase date, freight charges will be paid for by your ETS Distributor, after which all freight charges shall be at your expense. Contact your ETS Distributor for the authorized Service Center nearest you. This warranty is serial number specific and only applies to tanning units purchased through an authorized ETS Distributor. This warranty is extended to the individual or legal entity whose name appears on the original sales document and may not be transferred to any other individual or legal entity. This warranty is void if the tanning unit is modified in any manner from its original design.

To obtain warranty service, contact your place of purchase. Proof of purchase, including serial number, is required for verification. Contact ETS, LLC <u>only</u> if you purchased your equipment directly.

ETS, LLC 7445 Company Drive, Indianapolis, IN 46237-9296 1-800-449-3605 In Canada call 1-800-661-6292 or 519-421-1212



Congratulations on your purchase of this technologically advanced sun tanning unit. It has been designed to provide years of dependable service for you.

Please read all the instructions in this booklet before installing and using the unit. Always be sure to observe all safety precautions.



Safety Information
Installation.1Pre-Installation Planning.1Unpacking and Inspection.2Hardware Inventory.3Tools Required.3Assembly Procedures.5Remote Connections.22
Operation.28Before You Tan.28Exposure Times.28Using Your Sunbed.29
Care and Maintenance.31Cleaning After Use.31Thorough Periodic Cleaning.31Mechanical Inspection.31Lamp and Acrylic Replacement.32Under the Bench.36
Troubleshooting





LABELING NOTICE: Labels are affixed on all systems to inform the user of possible dangers. Regulations are stated in 21 CFR, Section 1040.20, and require that all products manufactured after September 8, 1986 which use sunlamps must display the following:

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 LONGTERM INJURY TO THE EYES. Medications or cosmetics may increase your sensitivity to the ultraviolet radiation. Consult physician before using sunlamp 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. Children, the elderly, or fair skinned people who always burn easily and either never tan or tan minimally should not use this equipment.

To use, lie down under canopy and pull down as far as adjustment will allow maintaining at least 3.5 inches (8.9 centimeters) between your body and canopy clear plastic panel and side tanner clear plastic panel, otherwise overexposure may occur. Minimum use distance elsewhere is touching the clear plastic panels. Do not use without clear plastic panels in place. Untanned persons should not tan on consecutive days during their first week of tanning. Never tan more than once a day. Tanning normally appears after the first few sessions and maximizes after approximately four weeks. Tan once or twice per week thereafter to maintain appearance. Persons already having a base tan may begin at advanced levels corresponding to the extent of their base tan.

RECOMMEN	IDED EXPOSURE TIMES IN MIN	IUTES M	AXIMUM	EXPOSURE	TIME IS 1	2 MINUTES
Skin Type:		Level 1/Week 1 1st-3rd Sessions	Level 2	Level 3	Level 4	Subsequent Maximum
Sensitive Skin	(Burns easily and severely and does not tan.)	NOT RECOMMENDED FOR TANNING				
II Light	(Burns easily and severely and tans minimally.) 2	4	7	10	12
III Normal	(Burns moderately and tans average.)	3	6	9	12	12
IV Dark	(Burns minimally, tans easily and above average	ge.) 4	7	10	12	12

New lamps emit approximately 10% more ultraviolet radiation during the first 50 hours of operation. Recommended tanning times should therefore be reduced by approximately 10% during that period.

WARNING: • Read the instructions booklet before using this sunlamp product. • All persons in the room should wear protective eyewear when lamps are on. Recommended eyewear: provided eyeshields or equivalent eyewear as defined under 21 CFR 1040.20. Other types of eyewear may not provide adequate protection. Failure to use protective eyewear may result in severe burns or other eye injury. If discomfort develops, discontinue use and consult a physician.

ONLY THE FOLLOWING LAMPS HAVE BEEN CERTIFIED FOR USE IN THE SOLARFORCE 648:

BRONZING SUN™ HPK90 Wolff® Model BSHPK90 71-T12-180W VS-R

Heraeus E400 HPT, Philips Model HPA 400/30s or CosmoTech Model 23045 (facial unit)

MARQUIS, Wolff System® Model CF26W (shoulder unit)

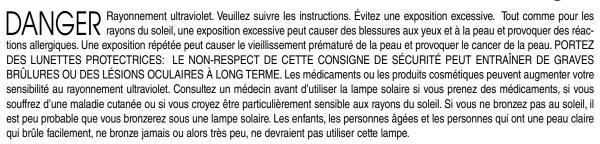
DISCONNECT POWER BEFORE ATTEMPTING TO CLEAN, RELAMP, OR ENGAGE IN THE MAINTENANCE OF THIS PRODUCT.

THIS EQUIPMENT MUST BE EARTH GROUNDED.

This product is in conformity with performance standards for sun lamp products under 21 CFR PART 1040.20 and a ANSI/UL Standard 482. Certified to CAN/CSA Standard C22.2 NO. 224.



27971-01*A*



Étendez-vous sous la partie supérieure, puis abaissez celle-ci aussi bas que possible, en veillant cependant à conserver un espace d'au moins 3,5 pouces (8,9 centimètres) entre le corps et le panneau de plastique transparent de la partie supérieure et le panneau de plastique transparent de l'appareil de bronzage latérales, afin d'éviter une exposition excessive. Les autres parties du corps peuvent toucher les panneaux de plastique transparents. N'utilisez pas la lampe sans les panneaux de plastique transparents. La première semaine de bronzage, les personnes qui n'ont pas un hâle initial ne doivent pas se faire bronzer tous les jours. Ne vous faites jamais bronzer plus d'une fois par jour. Le bronzage commence normalement à apparaître après les premières séances : il atteint son apogée au bout d'environ quatre semaines. Les personnes qui ont déjà un teint hâlé peuvent commencer à des niveaux plus élevés, selon l'importance de leur hâle initial.

TEMPS D'EXP	OSITION RECOMMANDÉ EN MINUT	ES LE TEMPS	D'EXPOS	ITION MAXIN	IAL EST DI	E 12 MINUTES
Type de peau:		Élevé 1/Semaine 1 1 ^{ere} -3 ^e	Élevé 2	Élevé 3	Élevé 4	Sem. suivantes Temps maximal
Peau sensible	(brûle facilement et ne bronze pas)	NON RECOMMANDÉ				
II Peau claire	(brûle facilement et bronze très peu)	2	4	7	10	12
III Peau normale	(brûle et bronze de façon modérée)	3	6	9	12	12
IV Peau foncée	(brûle très peu, bronze plus facilement que la r	moyenne) 4	7	10	12	12

Les lampes neuves émettent approximativement 10 % de plus de rayons ultraviolets au cours des 50 premières heures de fonctionnement. Le temps de bronzage doit donc êatre réduit d'environ 10 % pendant cette période.

AVERTISSEMENT : • Lisez le livret d'instructions avant d'utiliser cette lampe solaire. • Les autres personnes présentes dans la pièce doivent aussi porter des lunettes protectrices lorsque les lampes sont allumées. Coquilles de protection pour les yeux recommandées: Les coquilles de protection fournies ou l'équivalent, tel que le stipule le document 21 CFR 1040.20. Les autres types de lunettes protectrices peuvent ne pas assurer une protection adéquate. Utilisé sans lunettes protectrices, ce produit peut causer des brûlures ou lésions oculaires graves. Si vous souffrez d'un malaise, arrêtez l'utilisation et consultez un médecin.

SEULES LES LAMPES INDIQUÉES CI-DESSOUS ONT ÉTÉ HOMOLOGUÉES POUR CET ÉQUIPEMENT:

BRONZING SUN™ HPK90 Wolff® Modèle BSHPK90 71-T12-180W VS-R Heraeus E400 HPT, Philips Modèle HPA 400/30s ou CosmoTech Modèle 23045 (unité faciale) MARQUIS, Wolff System® Modèle CF26W (unité en bandoulière)



Cet équipement doit être mis à la terre.

Débrancher l'alimentation électrique avant de nettoyer l'appareil , d'en faire l'entretien ou de changer les lampes.

Ce produit est conforme aux normes de rendement pour les lampes solaires dans le documents 21 CFR, partie 1040.20 , ANSI/UL 482 , CAN/CSA C22.2 N° 224.



Pre-Installation Planning

Before you begin to assemble your sunbed, you should observe the following considerations.



A WARNING

Shock hazard. Disconnect power before servicing.

Use of a voltage source above 230V AC may prevent proper operation of the sunbed and could cause damage and void the warranty.

- The SolarForce® 648 operates from a 220V AC power source. The unit should be wired to a dedicated circuit capable of providing 80 Amp service. This unit must be hardwired directly to a junction box. We recommend connection by a professional electrician.
- IMPORTANT! Voltage must be below 230V AC or may require a Buck Booster.

Air from the room is used to cool the sunbed. Maximum ambient room temperature should be 80°F. Place your sunbed no closer than 6" from any wall. Make sure nothing obstructs the airflow into or out of the fan openings. A poorly ventilated room may cause the unit to become hot and cause discomfort to the user.

Proper assembly of your sunbed requires three people. Plan to have a couple of helpers assist you. Installation - Unpacking and Inspection



Unpacking and Inspection

Your sunbed comes in two cardboard cartons, one for the canopy and one for the bench and ballast tray. Open the cartons and remove the sunbed parts as follows.

The canopy is wrapped in plastic. Pull back the plastic and, with a helper, grasp the canopy and pull it from the carton bottom, leaving the plastic wrap and the carton packaging. **Do not attempt to lift the canopy with the plastic still on as it may slip. Do not lift the canopy by its plastic endcaps.** Leave the bench in its box until instructed to remove it in *Assembly Procedures*.

Note! The cartons are reusable. You may wish to save them for future use.

After unpacking the unit, check to make sure you have received the following:

- Canopy unit
- Bench unit
- Ballast drawer
- Front access panel
- Two large endcaps, one with small lamps
- Shoulder tanner cover
- Two 10" diameter flexible ducts
- Bag containing necessary assembly hardware, safety goggles, and pillow.

Inspect these items, including the canopy and bench, to make sure they are free from any visible damage. Report the extent of any damage to the transportation company.

Record the serial number of the unit in the area provided at the back of this manual. This information will be required whenever you call customer service.

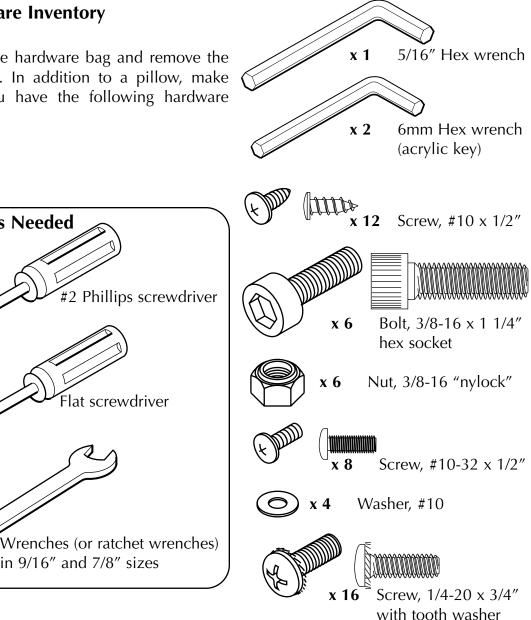


Hardware Inventory

Tools Needed

Open the hardware bag and remove the contents. In addition to a pillow, make sure you have the following hardware items.

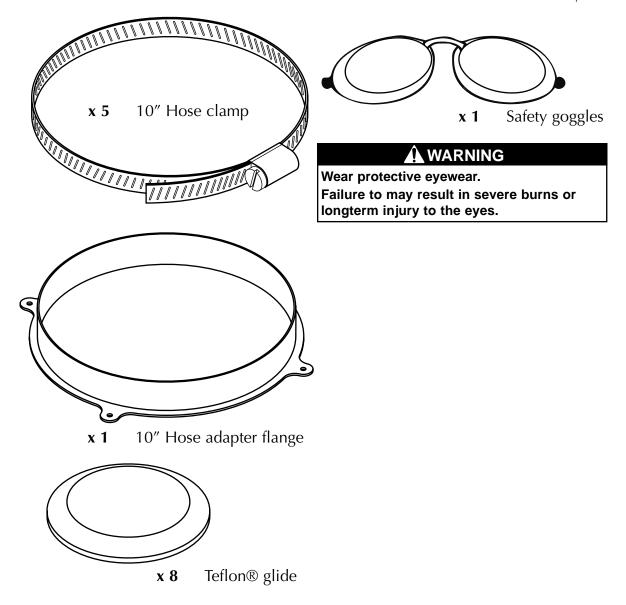
Flat screwdriver



3

in 9/16" and 7/8" sizes

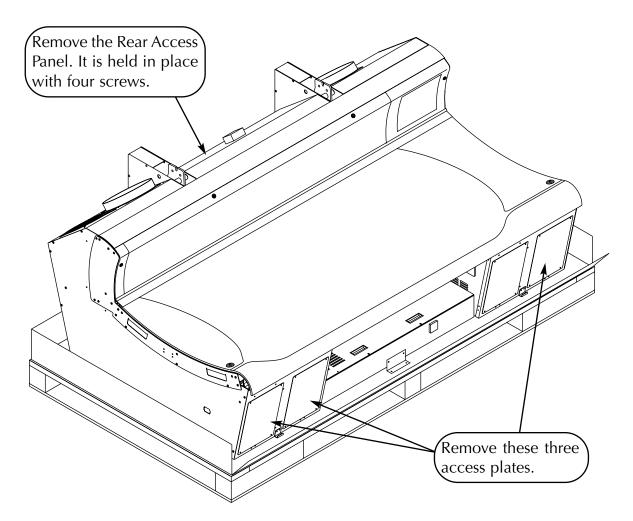






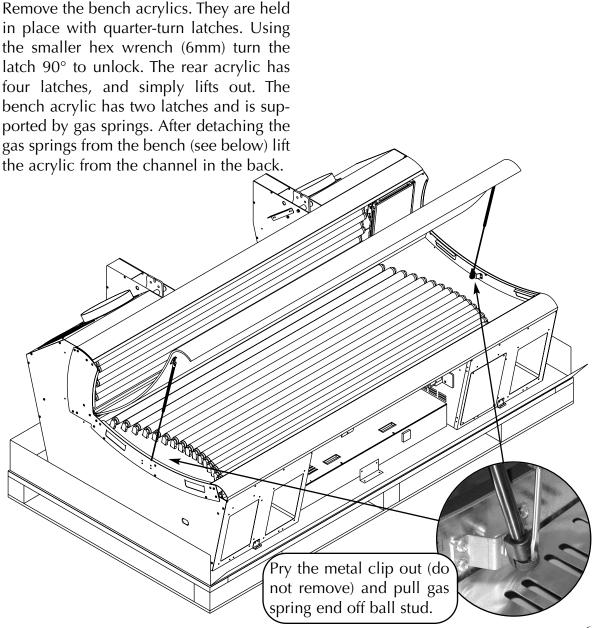
Assembly Procedures

The bench requires some disassembly before installation. Save all screws as some will be used to reassemble the unit.



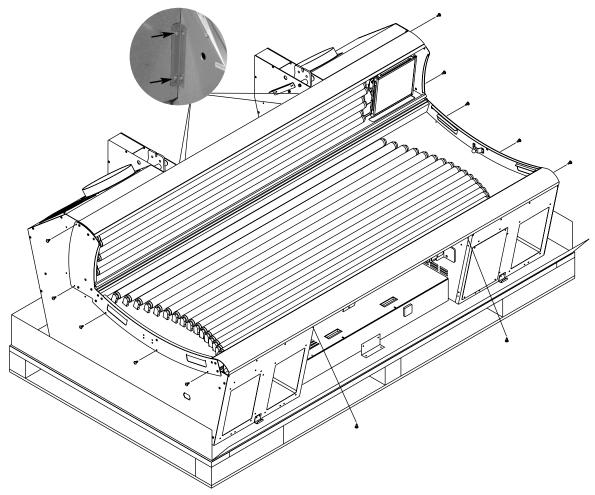
Installation - Assembly Procedures



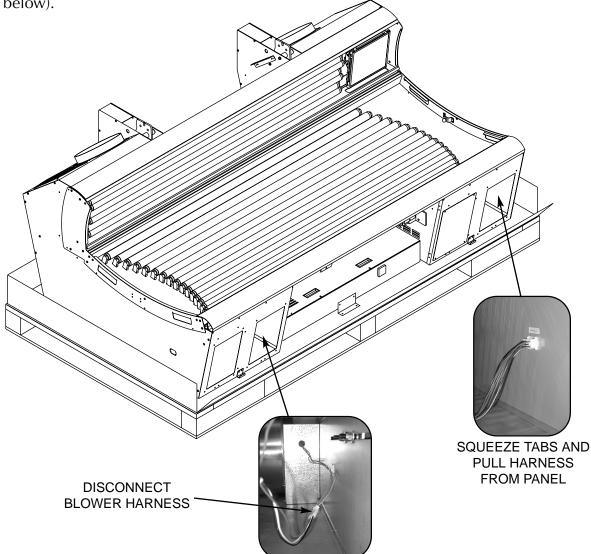




Unscrew the bench assembly from the pedestals. The bench is held in place with 16 screws (5 #10 x 1/2'' screws on each side, 2 under the front lip and four #10-32 x 1/2'' screws in the back). The screws are indicated by green markings.



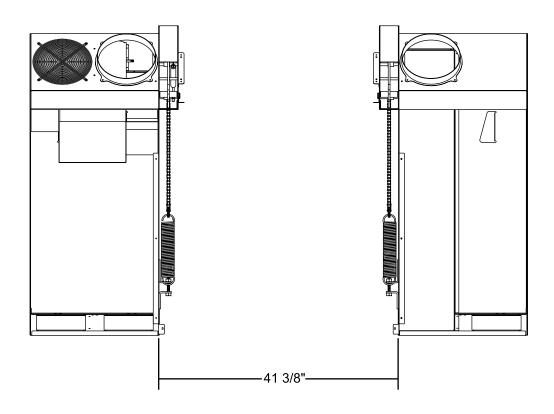
Before lifting the bench assembly, discon- Carefully lift the bench assembly and nect the Shoulder Tanner harness and place upside-down out of the way. blower harness inside the pedestals (see below).



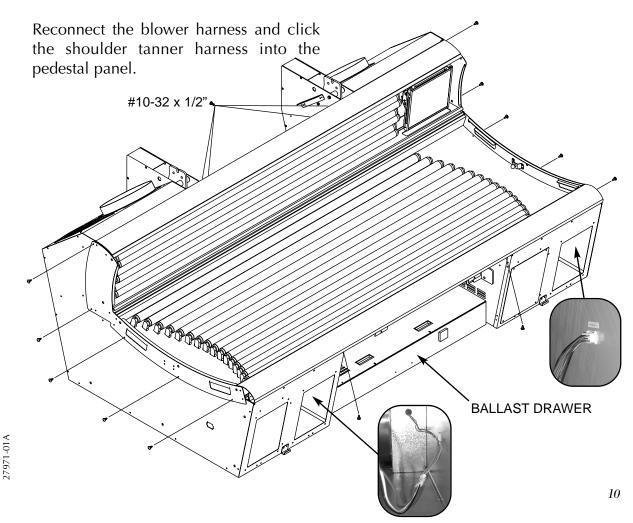


to work. In the hardware kit are 8 Teflon® glides with adhesive backing. If desired, stick four on the bottom of each pedestal, one in each corner. This will help when moving the unit.

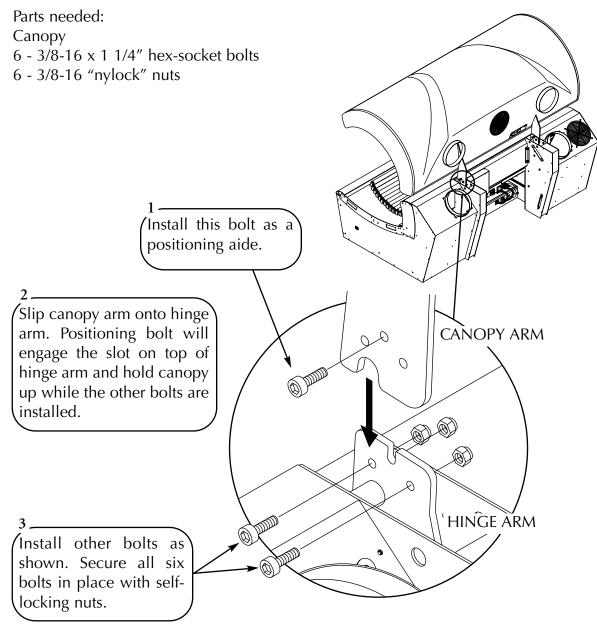
Place the pedestals in the room where the **IMPORTANT:** The diagram below shows unit will reside. Leave room behind them how to position the pedestals. Take some time to line them up properly, as this will greatly aid assembly.



Reattach the bench assembly to the Unscrew the two brackets from the ballast pedestals. Be careful of the wires. Use the drawer and discard. Roll the ballast drawsame screws removed earlier. If needed, er under the bench with the cables toward the hardware kit also contains these 16 the back. screws. The four #10-32 x 1/2" screws hold the back of the bench to the pedestals.



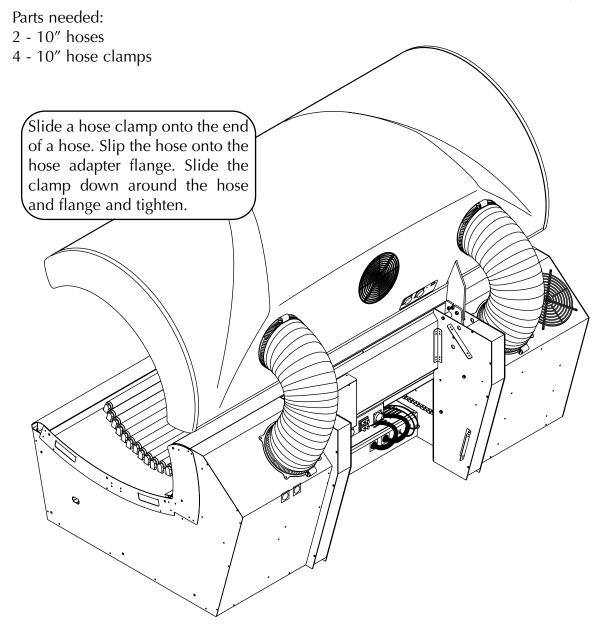




27971-01 A

Installation - Assembly Procedures



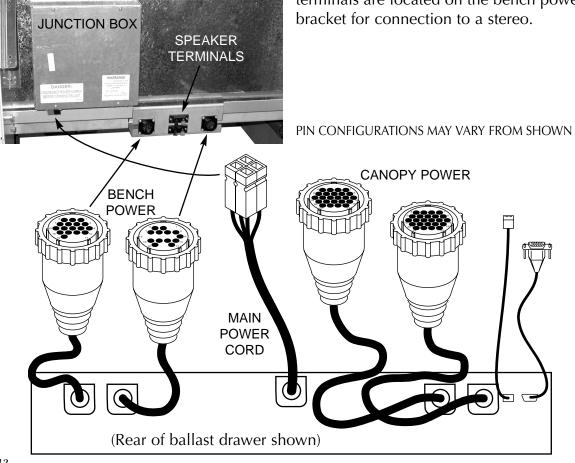




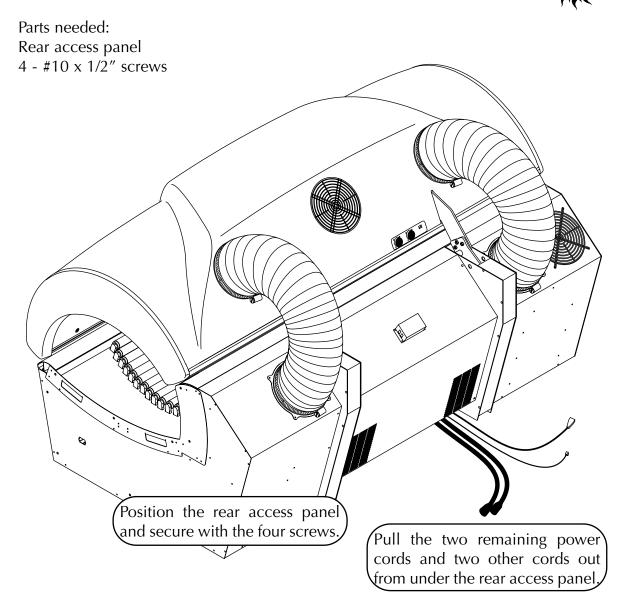
At the rear of the sunbed, connect the two bench power cords to their respective power receptacles on the bench. Simply match the plug to the receptacle, push on firmly and secure by twisting the threaded locking ring. Connect main power cord to the bottom of the junction box.

Have your electrician connect power directly into the junction box as described in *Pre-Installation Planning*. Again, a professional electrician is recommended.

In the head-end endcap are two speakers capable of handling 20W of musical power, with a maximum of 80W. Speaker terminals are located on the bench power bracket for connection to a stereo.



Installation - Assembly Procedures





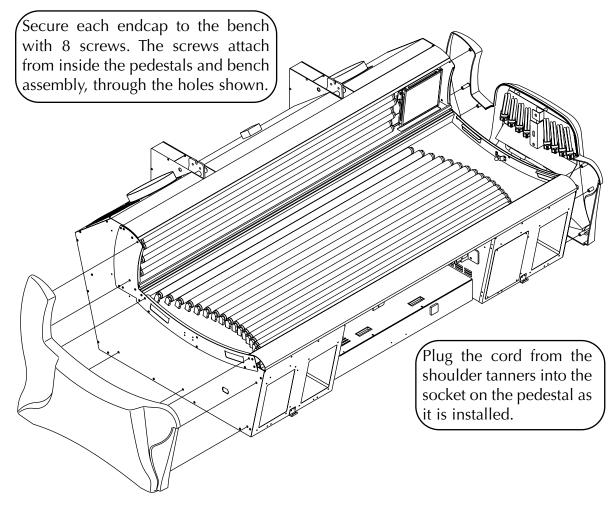
Plug each cord into its respective receptacle. The two large cables must run straight up, plugging the left one into the left receptacle on the canopy and the right one into the right receptacle. The computer type cable connects to the small box on the rear access panel.

0

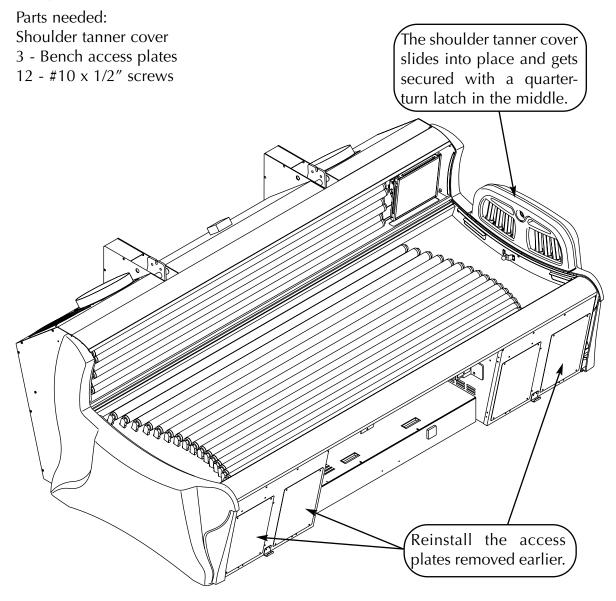
Installation - Assembly Procedures



Parts needed: Head-end bench endcap (with shoulder tanners) Foot-end bench endcap 16 - 1/4-20 x 3/4" screws with tooth washers





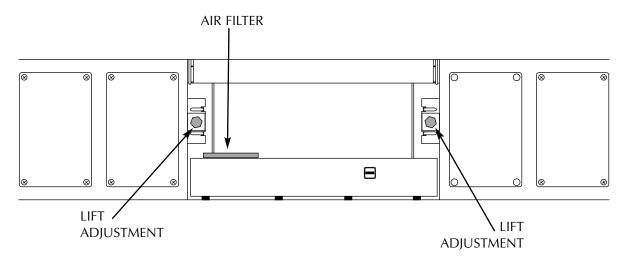


NOTE: Canopy removed for illustration purposes only

Installation - Assembly Procedures

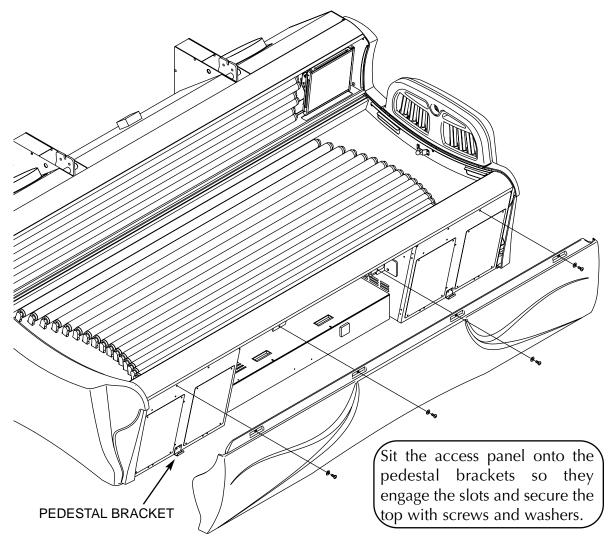
Your sunbed uses a smooth gliding spring lift system to raise the canopy. This lift system may need to be adjusted slightly due to shipment. Use a 7/8" wrench to turn the hex shaped Lift Adjustment lugs (shown below), clockwise for more lift and counterclockwise for less. When adjusted properly, the canopy should raise easily as well as rest fully closed. <u>Always</u> <u>adjust both lugs equally</u>.

Make sure the air filter is in place on top of the ballast drawer. It simply sits over the vent holes. Airflow holds it in place when the unit is on. The airflow arrow on the side of this filter should point down.





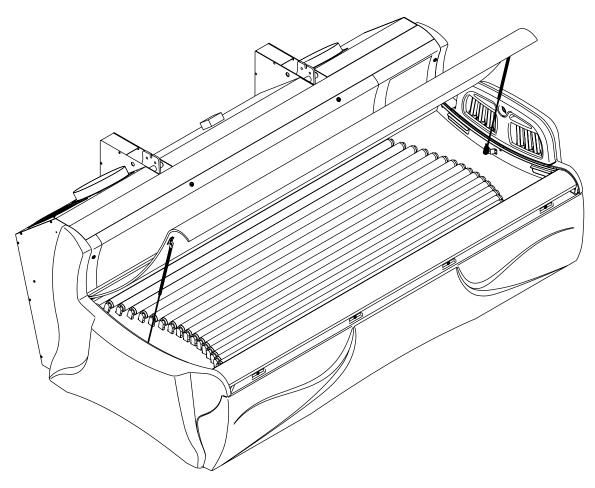
Parts needed: Front access panel 4 - #10-32 x 1/2" screws 4 - #10 washers

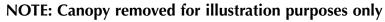




Reinstall the bench acrylics. Sit the rear acrylic into its slot and secure the latches.

Slide the bench acrylic into its channel in the back and press the gas spring ends onto the ball studs (no tools required).







Lock the bench acrylic down and your **SolarForce**® **648** is ready to use.

The remaining hose adapter flange and hose clamp are provided for venting the exhaust outside the room if desired. Remove the grill (shown below) from the rear of the unit and attach the flange. Connect a flexible 10" duct to the flange.

ЩIJ

GRIĻL

Installation - Remote Connections

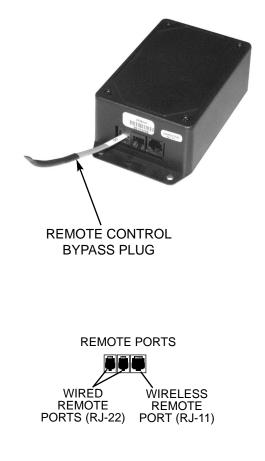


Remote Connections

Your sunbed incorporates advanced circuitry allowing it to connect and communicate with most remote control systems. If a remote system is to be used, first determine whether the remote system is a T-Max® System or a standard remote system operating with a control relay. The following pages outline many different remote connection scenarios. Find the scenario that best fits your application.

Three remote ports are located in the small black box on the rear access panel (see right); two RJ-22 (4-wire) ports and one RJ-11 (6-wire) port. A Remote Control Bypass plug is already installed in one of the RJ-22 remote control ports. Your sunbed will not operate without the Remote Control Bypass plug or a remote system connected.

ATTENTION: Use only the Remote Control Bypass plug supplied with your sunbed. Similar looking T-Max® terminator plugs will not work as a bypass plug. Normally, a bypass plug is needed only when your sunbed is operated without a remote system connected.



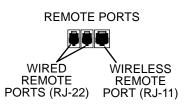


T-Max[®] Products

The T-Max® remote systems offer the ultimate in sunbed control, while allowing the tanner easy straightforward operation. Your sunbed is configured to directly connect to this system, including the new wireless remote system. The circuitry inside your sunbed eliminates the need for the T-Max® 1A or 3A when connecting to the T-Max® Manager series. Your sunbed supports the auto addressing feature of the latest T-Max® Manager models and the following parameters: 5, 6, 7, 8, 9, 10, 15 and 23. See your T-Max® manual for descriptions of these parameters and how they function.

CAUTION

The remote connection is not designed to supply or accept high voltage, nor can it provide power to an external timer. The sunbed's remote interface circuitry operates on 5 volts, attempting to connect it to any higher voltages will damage the sunbed as well as void your warranty.



T-Max[®] Wireless Remote System

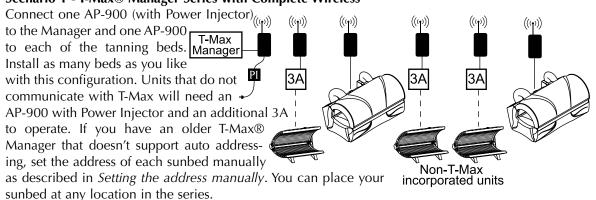
The T-Max® AP-900 eliminates wires in your salon, allowing easy setup without hiring an electrician to run wires. It also protects your investment from damage by isolating each unit from one another. Your sunbed arrives "wireless ready", which means it connects directly to the T-Max® wireless system. Older tanning beds, and T-Max® managers, also utilize this system but require a T-Max "Power Injector" (PI) to provide the needed power to the wireless unit.

Remote System Hook-up Scenarios

Follow the diagrams on the next few pages to see the many different scenarios for hooking up your salon. If you need further assistance, call T-Max® directly at (417) 338-5101.

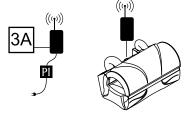


Scenario 1 - T-Max® Manager Series with Complete Wireless

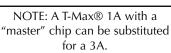


Scenario 2 - T-Max 3A with Wireless

In single sunbed installations, the T-Max® 1A and 3A can offer the same control as the T-Max® Manager, eliminating the need for a Manager. If you're using a 1A in this manner, it <u>must</u> have a chip labelled "master" installed on its circuit board. The remote control bypass plug must <u>not</u> be used in this configuration. The 3A may be used as a "master" with no modification.



After you have set the T-Max® 1A's, or 3A's, address to "0" (refer to your T-Max® user's guide) and the sunbed's address to "1", simply connect one AP-900 (with Power Injector) to the T-Max® 3A and one AP-900 to the tanning bed.

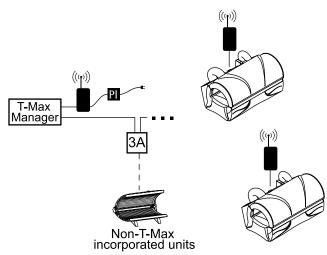


Scenario 3 - T-Max[®] Manager ((ආ)) Series with Wireless combo T-Max Manager Connect one AP-900 (with Power Injector) to the Manager PI ЗA and one AP-900 to a wireless ready tanning bed. The rest of the salon may be "daisy-chained" together and connected to the wireless equipped tanning bed, eliminating the need to wire the Manager to the tanning beds. Non-T-Max incorporated units



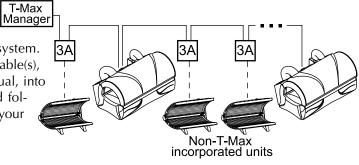
Scenario 4 - T-Max® Manager Series with Wireless combo 2

Wireless can be easily added to an existing salon already utilizing T-Max®. Connect one AP-900 (with Power Injector) to the Manager and one AP-900 to each wireless ready tanning bed. The rest of the salon may be "daisy-chained" together and connected to the Manager.



Scenario 5 - T-Max® Manager Series with wires

As always, this tanning bed is fully compatible with a wired T-Max® system. Simply connect the RJ-22 modular cable(s), described in the T-Max® Manager manual, into either of the smaller remote port(s) and follow the instructions that came with your remote system.



Scenario 6 - Single Bed wired to T-Max® 3A

In single sunbed installations, the T-Max® 1A and 3A can offer the same control as the T-Max® Manager, eliminating the need for a Manager. If you're using a 1A in this manner, it <u>must</u> have a chip labelled "master" installed on its circuit board. The remote control bypass plug must <u>not</u> be used in this configuration. The 3A may be used as a "master" with no modification.

After you have set the T-Max® 1A's, or 3A's, address to "0" (refer to your T-Max® user's guide) and the sunbed's address to "1", simply connect the RJ-22 modular cables, described in the T-Max® user's guide, directly into either of the smaller ports locat-

ed on the back of th unit and either port on the back of the T-Max® 1A or 3A.

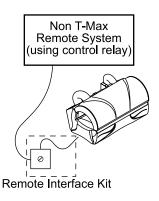


Installation - Remote Connections



Scenario 7 - Non T-Max® Remote System wired to unit

Most non-T-Max® remote systems control the sunbed by the use of a relay. The relay operates the sunbed by connecting and disconnecting a pair of wires leading from the sunbed. Refer to the user's manual provided with your remote system to determine if it operates in this way. To connect your sunbed to this type of system a remote interface kit is required. Contact your place of purchase to obtain the kit. The illustration below details a typical connection. Follow the instructions provided with the kit and from the remote's manual to make the necessary connections.



CAUTION

The remote connection is not designed to supply or accept high voltage, nor can it provide power to an external timer. The sunbed's remote interface circuitry operates on 5 volts, attempting to connect it to any higher voltages will damage the sunbed as well as void your warranty.



Setting the address manually

Before connecting your booth to the T-Max® Manager or T-Max® 1A or 3A, the address of your booth must first be set. Set the "id" manually as described below.

Setting the Address

- 1. Make sure the bed display is showing "0:00".
- 2. Press the STOP button for three seconds. The display should indicate an address number from "1" to "255".
- 3. If you are using a T-Max® 1A or 3A as a "master" remote, the address of the bed must be set to "1". If you are using a T-Max® Manager each sunbed must be assigned a different address. To adjust the address, press the START button to count up until the desired number (from 1 to 128) is achieved. Addresses 252 to 255 are not normally used.
- 4. Press the STOP button to return to the normal display mode.

Parameter	Function
2	Flip Indicator (timer beeps halfway through session) default - off
5	Session Count (adjustable)
6	Lamp Hours (adjustable)
7	Bed Hours
8	Manual Sessions (counts sessions in "stand-alone" mode)
9	Clean Bed Indicator - $0 = off$, $1 = on$
10	Manual Lockout (unit only works with T-max® remote) default - off
13	Cooldown Time (length of time fans run after session) default - 5 minutes
15	Master Session Count (not adjustable)
23	Auto Resume (unit continues session after power outage) default - off
38	Face Tanner Lockout Time (seconds face tanner cools before turning on again) default - 60
255	Reset Factory Defaults

T-Max[®] Parameter Chart



Before You Tan

Before using your sunbed, please note the following important precautions.

- Your skin should be free of cosmetics, oils, or other body lotions prior to tanning except for those specifically made for use with tanning devices. However, do not remove natural body oils by bathing or showering immediately before tanning.
- Your hair should be free of gels, mousses, sprays, or other hair products prior to tanning. These products can cause damage to the sunbed acrylic. As an alternative, a shower cap or towel can be worn to keep treated hair away from the sunbed surfaces.
- This unit intended for individual use. Only one pair of eyewear is included.

DANGER

Some medication may increase your sensitivity to ultraviolet light. It is recommended that you consult a physician before using this sunbed if taking any medication or if you suspect that your skin might be especially sensitive to sunlight.

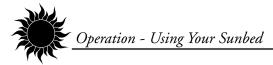


Do not operate this device near water or while you are wet.

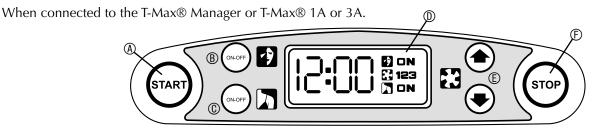
Exposure Times

Follow the guidelines for skin type and exposure times as shown in the table below. Untanned persons should not tan on consecutive days during their first week of tanning. Never tan more than once a day. Tanning normally appears after the first few sessions and maximizes after approximately four weeks. Tan once or twice per week thereafter to maintain appearance. Persons already having a base tan may begin at advanced levels corresponding to the extent of their base tan.

RECOMMEN	IDED EXPOSURE TIMES IN MIN	IUTES M	AXIMUM	EXPOSURE	TIME IS 1	2 MINUTES
Skin Type:		Level 1/Week 1 1st-3rd Sessions	Level 2	Level 3	Level 4	Subsequent Maximum
Sensitive Skin	(Burns easily and severely and does not tan.)	NOT RECOMMENDED FOR TANNING				
II Light	(Burns easily and severely and tans minimally.) 2	4	7	10	12
III Normal	(Burns moderately and tans average.)	3	6	9	12	12
IV Dark	(Burns minimally, tans easily and above average	ge.) 4	7	10	12	12



Using Your Sunbed



- A START button Turns unit on. Timer 1. display shows remaining time.
- **B Face tanner button** *Turns face tanner* on and off. Display shows status.
- **C Shoulder tanner button** *Turns shoulder lamps on and off. Display shows status.*
- **D Timer display** *Displays remaining time and function status.*
- **E Body fan buttons** Adjusts body cooling. Timer display shows intensity (1-2-3).
- **F STOP button** Interrupts tanning session.

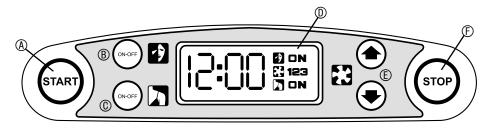
Wear protective eyewear.

Failure to may result in severe burns or longterm injury to the eyes.

- Left canopy, lie down on bench (face up), lower canopy toward your body. See *Safety Information* for positioning requirements.
- 2. Put on your safety goggles.
- **3.** Assuming the remote system has been set to allow a pre-tanning delay time, the timer display (D) will count down the remaining delay time. Press the START button (A) or wait until the delay time has expired to begin the tanning session. The lamps will turn on and the timer will begin to count down.
- **4.** When the timer reaches 0 the lamps turn off. If you want to interrupt your session before time expires, press the STOP button (F).
- 5. Raise the canopy by using the canopy handle, <u>do not push up on the acrylic shield</u>. The cooling fans run for a period of time after the lamps shut off to aid in cooling the sunbed. The timer will indicate ":" as a reminder to clean the sunbed. After the sunbed is cleaned press the START button and the display will return to "0:00".

Using Your Sunbed

When used as a stand alone unit or when connected to a remote system using a control relay.



- A START button Turns unit on. Timer display shows remaining time. If a lesser time is desired, press START button until desired time is displayed.
- **B Face tanner button** *Turns face tanner* on and off. Display shows status.
- **C Shoulder tanner button** *Turns shoulder lamps on and off. Display shows status.*
- **D Timer display** *Displays remaining time and function status.*
- **E Body fan buttons** Adjusts body cooling. Timer display shows intensity (1-2-3).
- **F STOP button** Interrupts tanning session.

WARNING

Wear protective eyewear. Failure to may result in severe burns or longterm injury to the eyes.

- 1. Lift canopy, lie down on bench (face up), lower canopy toward your body. See *Safety Information* for positioning requirements.
- 2. Put on your safety goggles.
- **3.** Press the START button (A) to begin the tanning session. The lamps will turn on and the timer will begin to count down.
- **4.** If a tanning time less than the displayed time is desired, repeatedly press the START button (A) to decrease the remaining time.
- 5. When the timer reaches 0 the lamps turn off. If you want to interrupt your session before time expires, press the STOP button (F).
- 6. Raise the canopy by using the canopy handle, <u>do not push up on the acrylic shield</u>. The cooling fans run for a period of time after the lamps shut off to aid in cooling the sunbed.



Cleaning After Use

Clean and disinfect your tanning bed's bench and canopy after each use. Use a non-abrasive disinfectant cleaner that **does not contain ammonia or ammonia derivatives**. Ammonia may damage the acrylic shield. Spray the acrylic lightly with disinfectant and wipe dry with a clean soft cloth. We recommend Australian Gold® pH Neutral Disinfectant Cleaner.

Thorough Periodic Cleaning

Introduction

The cooling fans draw air through the bed and over time will cause a dust buildup on the lamps and reflectors. This reduces the tanning effectiveness of the bed. When a dust buildup is observed, it is necessary to thoroughly clean the inside of the unit.



Shock hazard. Disconnect power before removing any protective covers.

Cleaning the Canopy and Bench

- **Step 1** Remove the acrylic shields and lamps as described in *Lamp and Acrylic Replacement*.
- **Step 2** With a soft cloth, wipe the entire length of each lamp.

- **Step 3** Clean both sides of the acrylic shields with a non-ammonia disinfectant cleaner.
- **Step 4** Wipe the reflectors with a clean damp cloth.
- **Step 5** Reinstall the lamps and acrylic shields.
- **Step 6** Clean or replace air filters on top of ballast drawer and in right pedestal (see *Under the Bench*).

Mechanical Inspection

Your tanning bed has been built for years of service. To ensure trouble-free operation throughout its life, inspect the unit's mechanical integrity every 400-500 hours of use.

- Inspect the unit's fasteners verifying that all are firmly in place.
- Inspect lift springs for signs of wear. Adjust for proper lift if needed. See Under the Bench.
- Inspect the power cords and connections.
- Inspect the acrylics. Broken, cracked or badly scratched acrylics should be immediately replaced.
- Check damper operation. The damper limits the canopy's movement speed. The damper looks like a gas spring attached to the left hinge arm. Replace if canopy raises and lowers too quickly.

Lamp and Acrylic Replacement

Introduction

To be assured of maximum tanning effectiveness, change lamps after approximately 400-500 hours of use. Tanning will continue after this time but at a slower rate.

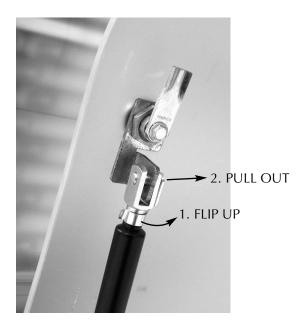
This unit is equipped with electronic lamp starters. They last longer than traditional "glow tube" starters, light the lamps quicker, and reduce blackening on the ends of the lamps. It is no longer necessary to change lamp starters when changing lamps. As long as they function normally, meaning its lamp fires quickly and consistently, there is no need to change starters.

🛕 WARNING

Shock hazard. Disconnect power before removing any protective covers.

Opening/Replacing Bench Acrylic

The Bench acrylic does not need to be removed to perform normal maintenance, such as cleaning and replacing lamps. Turn the quarter-turn latches on either side of the acrylic and lift the front edge. Two gas springs hold it open. To remove the Bench acrylic, lift the acrylic so the gas springs are fully extended. Each gas spring is held to the acrylic bracket with a locking pin. Unclip the pin and slide it out to disconnect the spring from the acrylic (see below). With the acrylic open lift it from the bench. Replace the acrylic by setting the hinge channel along its back edge in its slot at the rear of the bench and reconnecting the gas springs.





Opening/Replacing Rear Acrylic

The Rear acrylic is secured by four quarter-turn latches. Using the 6mm hex wrench, turn each latch 90° to unlock it. Lift the acrylic out of its channel. Replace it by setting it in its channel and locking the latches.

Opening/Replacing Canopy Acrylic

The canopy acrylic is secured by four quarter-turn latches along its front edge. While supporting the front of the acrylic, use the 6mm hex wrench to unlock the latches. The acrylic will swing down and rest on the bench.

Removing the acrylic requires two people, one on either end. With it open, lift the front as you gently pull forward and the acrylic hinge will pull out of the channel along the back edge. Replace it by reversing the above directions.

Opening Shoulder Tanner Cover

Turn the quarter-turn latch in the center of the shoulder tanner cover. Pry the top forward while pulling upward to remove the cover. Replace it by sliding the bottom down and pressing the top closed. Turn the latch to lock.

Removing/Replacing Lamps

After opening the acrylic shield, replace main lamps as follows.

- Step 1 Grasp the lamp at one end and at the middle and turn the lamp one quarter turn. Gently remove the lamp from its holders.
- Step 2 Reinstall the lamp by inserting the pins located on the ends of the lamp into the slots on top of the lamp holders and turn the lamp a quarter turn. It should click in place.

Removing/Replacing Shoulder Lamps

Remove the shoulder tanner cover. Grasp a lamp at its base, NOT by the lamp glass. Pull the lamp straight out of its holder. Install the lamp by lining up the pins on the base of the lamp with the holes in the lamp holder and press into place.

Removing/Replacing Decorative Lamp

Open the bench acrylic. The decorative lamp is located along the front edge of the bench, tucked inside the aluminum extrusion. Remove two or three bench lamps to allow access to the decorative lamp.

Replace the lamp, as you would the main lamps, with a red 48" T8 32W fluorescent lamp.

Recommended Replacement Lamps

We recommend using the lamps specified below. Use of uncertified lamps is a violation of Federal regulations and will void your warranty. These lamps have an average life of 400-500 hours of effective tanning use. Lamps used longer than that begin to lose their effectiveness even though they continue to light.

Recommended Replacement Acrylics

Acrylics vary greatly over time in their ability to effectively transmit UV light. Acrylics sold by ETS have been life tested to ensure proper transmission throughout their useful life.

ONLY THE FOLLOWING LAMPS HAVE BEEN CERTIFIED FOR USE IN THE SOLARFORCE 648:

BRONZING SUN™ HPK90 Wolff® Model BSHPK90 71-T12-180W VS-R Heraeus E400 HPT, Philips Model HPA 400/30s or CosmoTech Model 23045 (facial unit) MARQUIS, Wolff System® Model CF26W (shoulder unit)



Removing/Replacing Face Tanner Lamps

After opening the canopy acrylic, replace the face tanner lamps as follows:

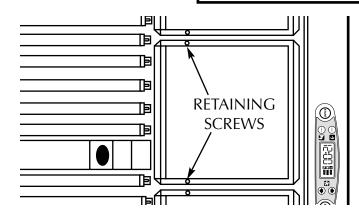
- **Step 1** Support the face tanner assembly with your hand while unscrewing the two retaining screws. The face tanner glass casing will swing downward.
- **Step 2** The lamp can now be exchanged. The lamp holders are equipped with spring contacts which enable the lamp to be removed easily. Remove the old lamp and discard. Install the new lamp, using a clean cloth or paper towel. Ensure that the lamp is firmly seated in the lamp holders.

Note! Never take hold of the lamp such that your fingers are in contact with the lamp glass. Finger oils will greatly reduce the lamp's operational life.

Step 3 Gently close the face tanner glass casing and lock it closed with the screws. Ensure that the screws firmly secure the glass casing.

A DANGER

Unfiltered light from face tanner can cause severe burns. Never turn sunbed on while face tanner is disassembled or when glass filters are removed. Immediately discontinue use of this equipment if face tanner glass is broken or any unfiltered light can be seen escaping face tanner assembly.



Care and Maintenance - Under the Bench

Under the Bench

Lift the bench acrylic (see *Lamp and Acrylic Replacement*). The front access panel is held in place by four Phillips head screws. Remove the access panel.

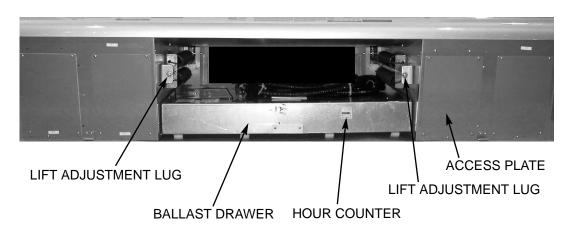
Canopy Lift Adjustment

Your sunbed uses a smooth gliding spring lift system to raise the canopy. Periodically this lift system may need to be adjusted slightly. Use a 7/8" wrench (or ratchet wrench) to turn the hex shaped Lift Adjustment lugs (shown below), clockwise for more lift and counterclockwise for less. When adjusted properly, the canopy should raise easily as well as rest fully closed. <u>Always adjust both lugs</u> <u>equally</u>.

Air Filter Replacement

The bench contains three air filters, one on top of the ballast drawer and two inside the right pedestal. The filter on top of the ballast drawer simply sits on the drawer and is held in place by airflow when the unit is running. Replace with a standard $10'' \times 24'' \times 1''$ furnace filter. The airflow indicator should point down.

Thumb screws secure an access plate onto the right pedestal. Using your fingers, loosen the screws to remove this plate. Behind it are two air filters. Pull them straight out. Replace with standard 12" x 18" x 1" furnace filters. The airflow arrows should point toward the head end.





Problem	Solution
Sunbed not tanning	 Clean sunbed, see <i>Thorough Periodic Cleaning</i>. Ensure supply voltage is between 208 and 230V AC. Replace lamps if lamp hours are greater than 500hrs. Replace acrylic.
Lamps fail to light and timer dis- play is blank	 Make sure the unit is connected to a power source. Check source of AC power. Reset circuit breaker or replace fuse.
One or more lamps fail to light	 Check that lamp is installed correctly. Switch unlit lamp with a lamp that lights, if new lamp lights and old lamp still does not, replace old lamp.
The face tanners will not come on	 Face tanner operation is initially delayed by 5 seconds. Face tanners will not relight for 1 minute if turned off. Replace face tanner lamp, see <i>Removing/Replacing Face Tanner Lamps</i>.
The canopy will not stay up / The canopy will not stay down	Your sunbed uses a smooth gliding spring lift system to raise the canopy. This lift system may need to be adjusted slightly from time to time. See <i>Under the Bench</i> for proper adjustment procedures. The canopy should raise easily as well as rest fully closed.
My canopy opens and closes too fast (slamming, not enough resis- tance)	Your sunbed utilizes a damper which limits the canopy's movement speed. This also serves as a safety device in case of spring lift failure as the canopy will not crash down. The damper looks like a gas spring attached to the left hinge arm. Replace if necessary.
Timer display is indicating E 91	Timer software error. Disconnect and reapply power to the unit.
Timer display is indicating E 92	Current sensor indicating unit is off when it should be on. Contact servicer.
Timer display is indicating E 93	Current sensor indicating unit is on when it should be off. Contact servicer.

Troubleshooting



Problem	Solution	
Timer display is indicating E 98	Unit temperature too high. Allow unit time to cool. Check all fan openings and air filters for Verify ambient temperature is below 80° If problem persists contact servicer.	
I forgot what address, or "id", I set my sunbed to	By holding the STOP button for 3 seco will briefly blink "id" and your address	
Timer display changes to indicate a tanning time after the START but- ton is pressed but lamps do not come on	Bypass plug is not installed, see <i>Remote</i> A non-SunStar® bypass has been <i>Connections</i> . If remote is being used, other than T- external timer may not be activated. Remote wiring is incorrect, see the instru- the remote interface kit.	used. See <i>Remote</i> Max® Manager, the
My bed is connected to the T- Max® Manager remote system and when the delay time has expired the timer display starts counting down but the bed lights do not come on	The auto start feature of the remote syste instructions provided with your remote s	
My bed won't work with the T- Max® Manager remote system	The sunbed must first be set to a unique <i>Connections</i> .	address, see <i>Remote</i>
Timer display continues to show 0:00 after the START button is pressed	T-Max® Manager remote system has not Sunbed address is not set correctly, see	
My salon suffers frequent, short power outages and clients com- plain about losing session time	If you have a T-Max® Manager, changir "0" to "1" will allow the tanning bed to time was left when power goes out an after power is restored. Consult your T- <i>N</i> al for information on setting parameters.	remember how much nd resume its session 1ax® Manager manu-



Problem	Solution
My bed, connected to a T-Max®	
Manager, did not display "dL" but does indicate:	
- "0:00"	 Remote device has not been set. The sunbed has not been connected to the remote system, see <i>Remote Connections</i>.
- a tanning time and the lamps have come on	 Delay time of T-Max® Manager has not been set. Delay time has expired and session has begun.
- a tanning time but the lamps have not come on	Auto start function of T-Max® Manager has been turned off. Press the START button to turn on lamps.
When auto-addressing the first bed does not register an address	When using the auto address feature of the T-Max® Manager you must wait 10 seconds from the time you start the auto address function before addressing the first bed.





What to do	After each use	WHEN Monthly	400-500hrs
A. Clean/Disinfect Interior Surfaces*	×		
B. Clean Lamps*		×	
C. Clean Reflectors*		×	
D. Clean Exterior		×	
E. Check/Clean Fanst		×	
F. Change Lamps**			×
H. Check Fasteners (nuts, bolts, etc.)*			×
I. Check Power Cords*			×
J. Change Filters***			×

* See Care and Maintenance

** See Lamp and Grill Replacement *** See Under the Bench

+ Fans are located in the canopy and a blower is located in the left pedestal. Use a vacuum to clean.

What	When	MAINTENAN What	What	When
example BCDE	4/15/04			

Size	96" (244cm) 96"			
Weight (approx.)	1200 lbs. (546kg)			
Minimum Room Size	e 9' x 10' (2.7m x 3m)			
Electrical -				
Voltage (AC)	220			
Amperage	63			
Outlet	Hardwire			
Main Lamps	48 x BRONZING SUN™ HPK90 180W			
Face Tanner	4 x 400W SolarMax™ IFT			
Shoulder Tanner	8 x 26W			
Cooling System	1100cfm full length body cooling			
Timer System	Digital			
Max. Exposure Time	e 12 minutes			
Back-up Timer	Digital "Watchdog" circuitry			
Remote Capability	T-Max® compatible			



Proudly manufactured in the U.S.A.

U.S. Patent 6,660,025 B2

Record this information for ease of service:

Date of purchase: _____

Serial number: _____

