

**Operation and
Instructions
FOR THE USE OF YOUR**

**SCA WOLFF SYSTEM
1994**

**SERIES IV
424 SL and 416 SL
INDOOR TANNING SYSTEMS**

SUN INDUSTRIES, INC.

P.O. Box 2026

Jonesboro, AR 72402

1-800-643-0086

Warnings and Cautions

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

It is recommended that only one person at a time should use the tanning system while in use, and advises using protective eye-wear while taking a tanning session. One pair of goggles is provided with each sunbed sold.

WARNING

If you have been diagnosed by a physician as being allergic to the sun or are currently taking photosensitive medications,

consult your physician before using the tanning unit.

Occasionally, persons using the tanning system will experience a slight reddening of the skin — usually in small patches — after the second or third session. This redness is often accompanied by an itching sensation. This is nothing more than a heat "rash" caused by heat from the lamps within the system. It is generally very limited and

caused by constant contact of the skin with the acrylic surface. It will go away within approximately 24 hours and should not re-appear. This rashing can be lessened or prevented by turning over occasionally during sessions on tanning unit, and by applying moisturizer lotion to the affected area after the tanning session is completed.

CAUTION

While there is no immediate clinical evidence regarding UVA exposure and its effects upon **expectant mothers**, it is

strongly advised that expectant mothers be discouraged from using the tanning unit.

Exposure Times and Frequencies

Melanin — The brownish pigment produced by special cells in the base layer of your skin determines the individual's tan. As the skin is exposed to the ultraviolet light, the melanin is activated and combines with protein cells that rise to the skin's surface, thus producing a tan.

The amount of melanin in your body determines how quickly and dark you tan. The more melanin produced and exposure time an individual has, the faster and deeper the individual will tan.

NOTE

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

SKIN TYPE II - This is the individual that usually burns easily and severely, tans minimally or lightly and peels.

SKIN TYPE IV - This individual burns minimally, tans easily and above average with each exposure.

SKIN TYPE III - Often referred to as "AVERAGE" complexion, burns moderately and tans about average.

SKIN TYPE V - This individual's system rarely burns, tans easily and substantially.

RECOMMENDED EXPOSURE SCHEDULE					
SKIN TYPE	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEKLY
	1ST-3RD TREATMENTS	4TH-6TH TREATMENTS	7TH-10TH TREATMENTS	11TH-15TH TREATMENTS	SUBSEQUENT TREATMENTS
II - FAIR	3 MIN.	7 MIN.	15 MIN.	20 MIN.	20 MIN.
III - AVERAGE	3 MIN.	7 MIN.	15 MIN.	20 MIN.	20 MIN.
IV - BROWN	3 MIN.	10 MIN.	15 MIN.	20 MIN.	20 MIN.
V - DARK BROWN	3 MIN.	10 MIN.	15 MIN.	20 MIN.	20 MIN.

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

MAXIMUM EXPOSURE TIME IS 20 MINUTES.

NOTE

Since the back and stomach areas of the body will receive the majority of the tanning rays, it is recommended that individuals spend at least five (5) minutes lying on each side of the body during sessions to achieve a full-bodied tan.

Since your tanning unit will cast off some heat, it is recommended that a small fan be used to improve air circulation during sessions. Likewise, adequate **ventilation** of the room or booth housing the tanning units is required for comfortable operation.

It is recommended that you do not use any creams, oils or lotions, (particularly

suntan lotions) that are not recommended by Sun Industries, Inc. Equally important — many facial makeups have oil bases and should be removed prior to a session. It is recommended that, following a tanning session, a skin moisturizer be applied. This promotes a smoother, more even looking tan.

Assembly Instructions

Step 7

To connect power to top unit, locate power cord and receptacle in bottom unit that is labeled "TOP UNIT". Align three (3) conductor plug with receptacle. Insert and twist clockwise until locked.

NOTE: To prevent potential damage to your tanning unit do not force this connection.

Step 8

Locate decorative caps and bolt covers for support bracket and install. (See Illustration F).

Step 9

424 SL ONLY

Front Leg Panel Installation:

To install front leg panel align leg panel in front of legs and press into place.

(See Illustration G).

Unit Connection

416 SL

The top and bottom unit of the 416 SL are equipped with individual power cords and a three (3) prong grounded plugs the complete unit requiring a 120 volt, 20 amp service to function as designed.

424 SL

120/240 Volt,	1ø	20 Amp
120/208 Volt,	1ø	20 Amp
120 Volt,	1ø	30 Amp

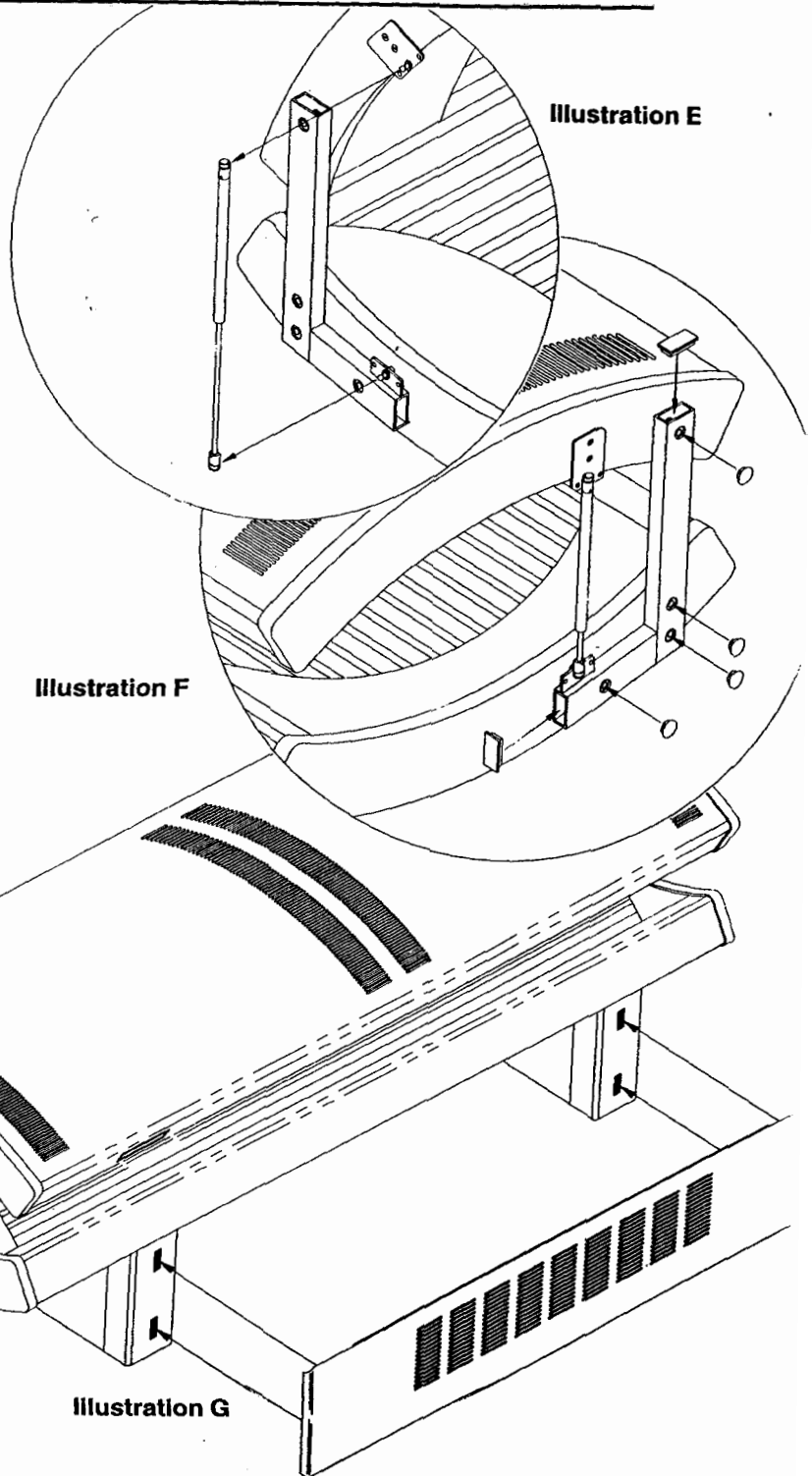
All require 10 Ga wire or larger, an equipment ground and 1/2" flexible metal conduit connection. (See inside cover for diagram).

SPECIAL NOTE:

OPERATING INSTRUCTIONS

416 SL ONLY

The 416 SL is equipped with two (2) 20 minute timers. One located on the top unit and one located on the bottom unit.



To Set Time

Turn timer clockwise on each timer and set time in accordance with your exposure schedule. Time will automatically count down and shut off unit at sessions end.

To Stop Unit

Turn timers counter clockwise, back to zero.

Should you have any questions regarding assembly process please contact our service department at 1-800-445-0624.

Intellitan Single Station Remote

Operating/Programming Instructions cont.

IMPORTANT NOTE:

Proceed slowly through viewing and editing of various parameters.

You **CANNOT** view parameters in reverse order. That is, you **CANNOT** go from **PARAMETER 7** to **PARAMETER 6**.

If you proceed too quickly or inadvertently pass by the parameter you wish to view/edit, you must exit the system, (Press **Start/Stop** button until you reach **00:00**) Then re-enter password clearance to get back into system.

Now press **Start/Stop** button to reach **Parameter 2, (P:02)**, the **Alarm Enable/Disable** function.

This is the chime mechanism that provides an audible "beep" sound to indicate the various operations occurring. You have the option to use the audible beep or silence it.

NOTE: The unit comes with the chime mechanism activated to provide an audible beep. To maintain the mechanism, press the **Start/Stop** button now and proceed to **P:03**. If you wish to silence it, do the following:

Press **Reset** button then release it. Display will register **0001** and will flash. Press the **Down** button and hold it in scrolling down to **0000**. Now press **Reset**. Chime is now deactivated.

Now press the **Start/Stop** button to reach **Parameter 3, (P:03)**, the **Station Address** function.

This function allows you to identify the unit for interface with the **CCS-1**, the 1-10 unit console timer. Press the **Reset** button and release it. Display will flash **0001**, indicating Unit #1. To identify the unit and assign a cod number to it other than "1", press the **UP** button and scroll to a higher number. Once you reach the desired number, release the **UP** button. Now press the **Reset** button and release it. The unit has now been designated accordingly.

Now press the **Start/Stop** button to reach **Parameter 4, (P:04)**, the **Lamp-Hour Accumulation on Current Lamp Bank** function.

Lamp hour accumulation is immediately displayed from **0000** to **1000**. When current lamp hour accumulation reaches **1000**, 3 beeps will chime each time the unit is turned on, indicating that a lamp change is necessary. Chime will not sound if it has been deactivated through **P:02**.

Upon changing lamps, to clear counter to zero, press **Reset** button and release. Display will flash. Now press and continue to hold the **DOWN** button and scroll display back to **0000**. Press reset button and release. Accumulation is cleared.

• Now press the **Start/Stop** button to reach **Parameter 5, (P:05)**, the **Session Delay, Prep-Time Monitor** function.

To adjust session delay from 0-5 minutes, press **Reset** button then release it. Now press either the **UP** or **DOWN** button to reach desired setting and release buttons. Time is displayed from **0000** to **0050**. Numbers equal tenths of a minute.

For example: **0025** equals 2 minutes, 30 seconds. ($25 \times 6 \text{ seconds} = 150 \text{ seconds}$). Press **Reset** button and release it.

NOTE: Session delay cannot be overridden via the Emergency ON/OFF switch.

Now press the **Start/Stop** button and release it to reach **Parameter 6, (P:06)**, **The Session Counter**. Immediate display of total number of times the unit has been turned **ON/OFF** since first day of operation. Counts from **0000** to **9999** then rolls over. This function cannot be reset.

Now press **Start/Stop** button to reach **Parameter 7, (P:07)**, **Remote Enable/Disable** function.

Display should immediately read **0000**, indicating that the system is in the remote mode. **DO NOT ADJUST**.

NOTE: This function is only utilized when working in conjunction with the **CCS-1**.

Now press **Start/Stop** button to reach **Parameter 8, (P:08)**, **Total Hour Accumulation**. Immediate display of total hours on unit since first day of operation. Counts from **0000** to **9999**, then rolls over. This function cannot be reset.

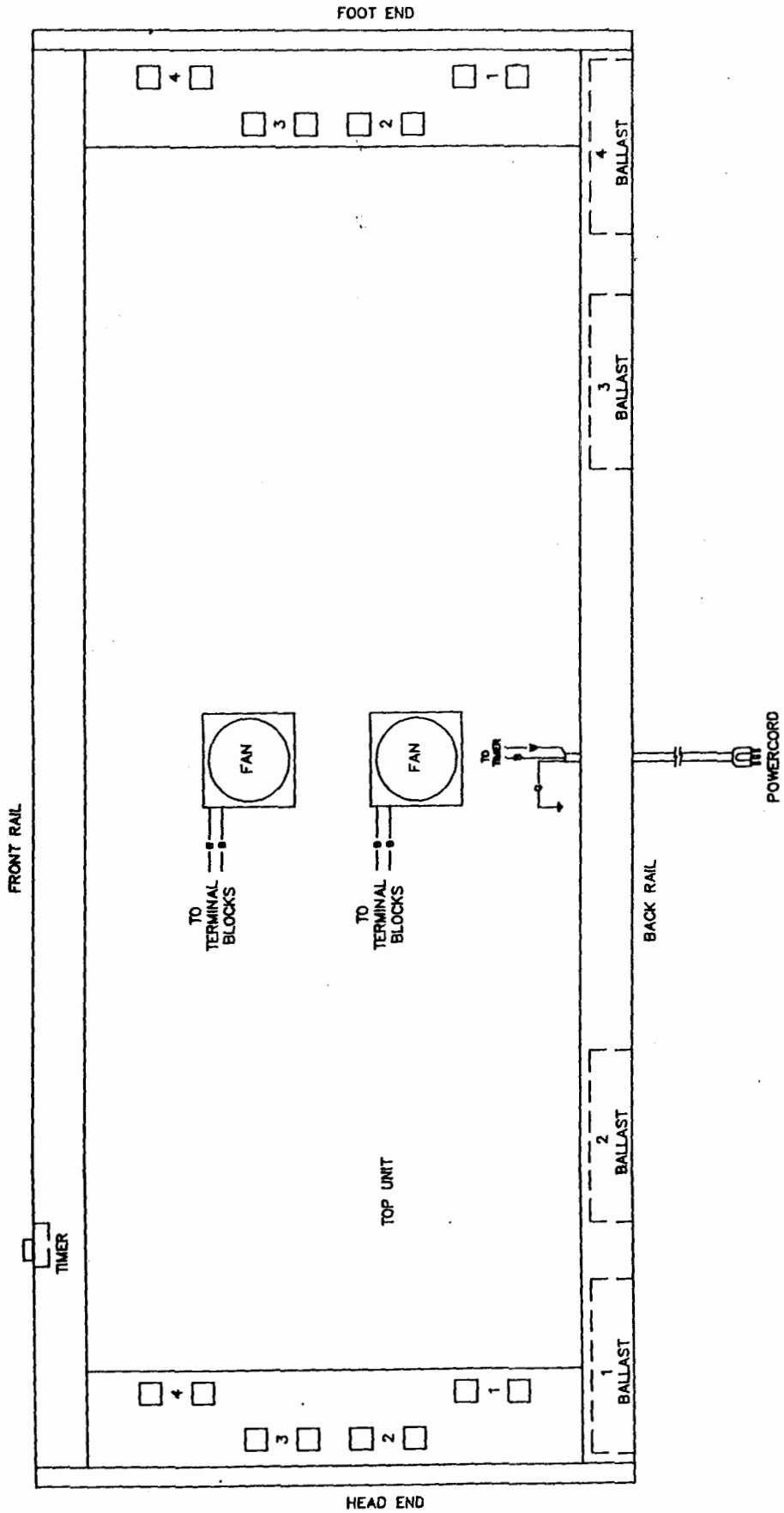
Now press **Start/Stop** button to exit program mode.

IMPORTANT NOTE:

INTELLITAN SINGLE STATION REMOTE TIMER SHOULD BE MOUNTED IN A LOCATION THAT IS IN ACCORDANCE WITH ALL REGULATIONS GOVERNING REMOTE TIMER ACCESS AND CONTROL.

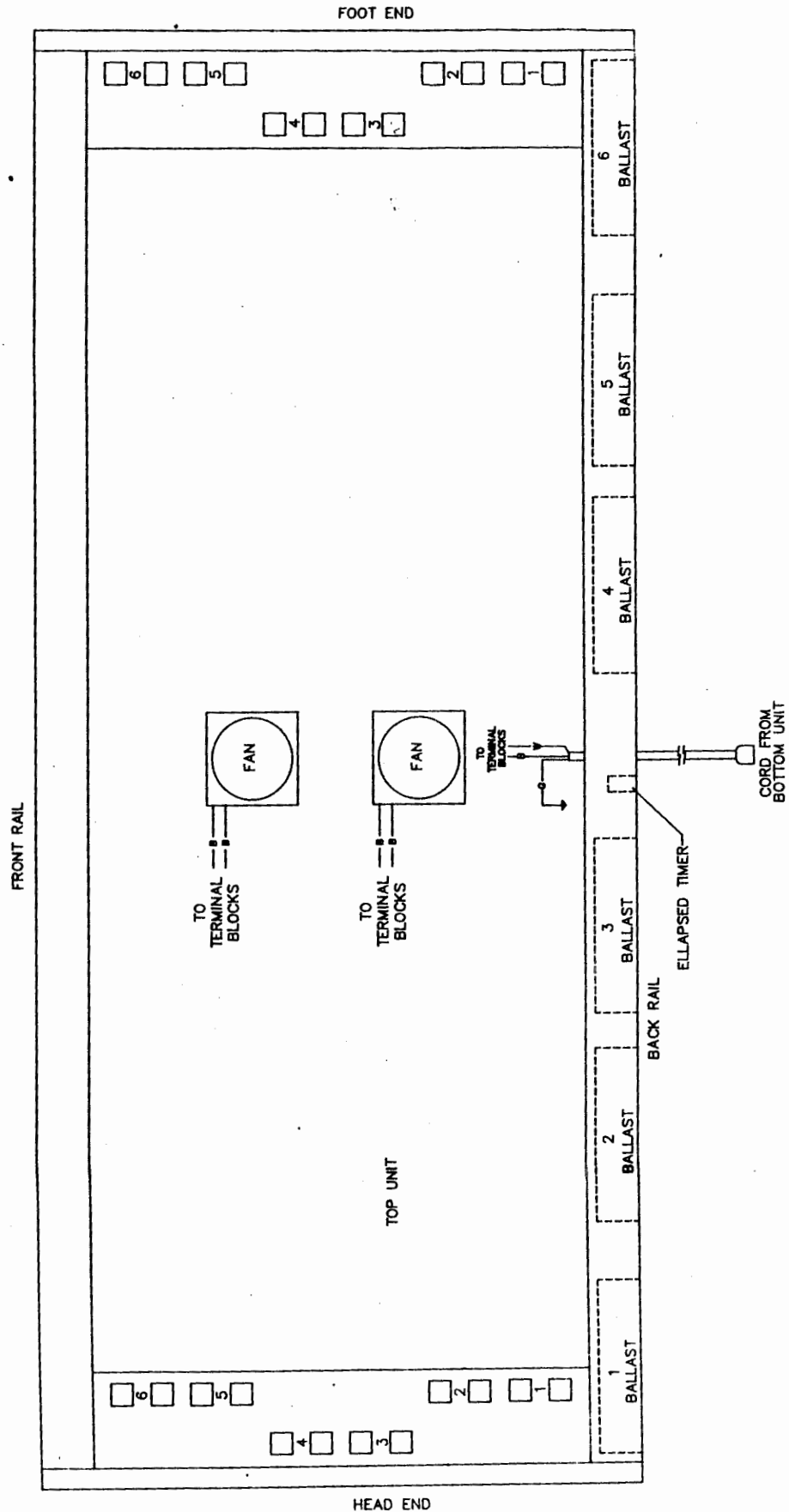
WIRING DIAGRAM

416 SL
TOP



WIRING DIAGRAM

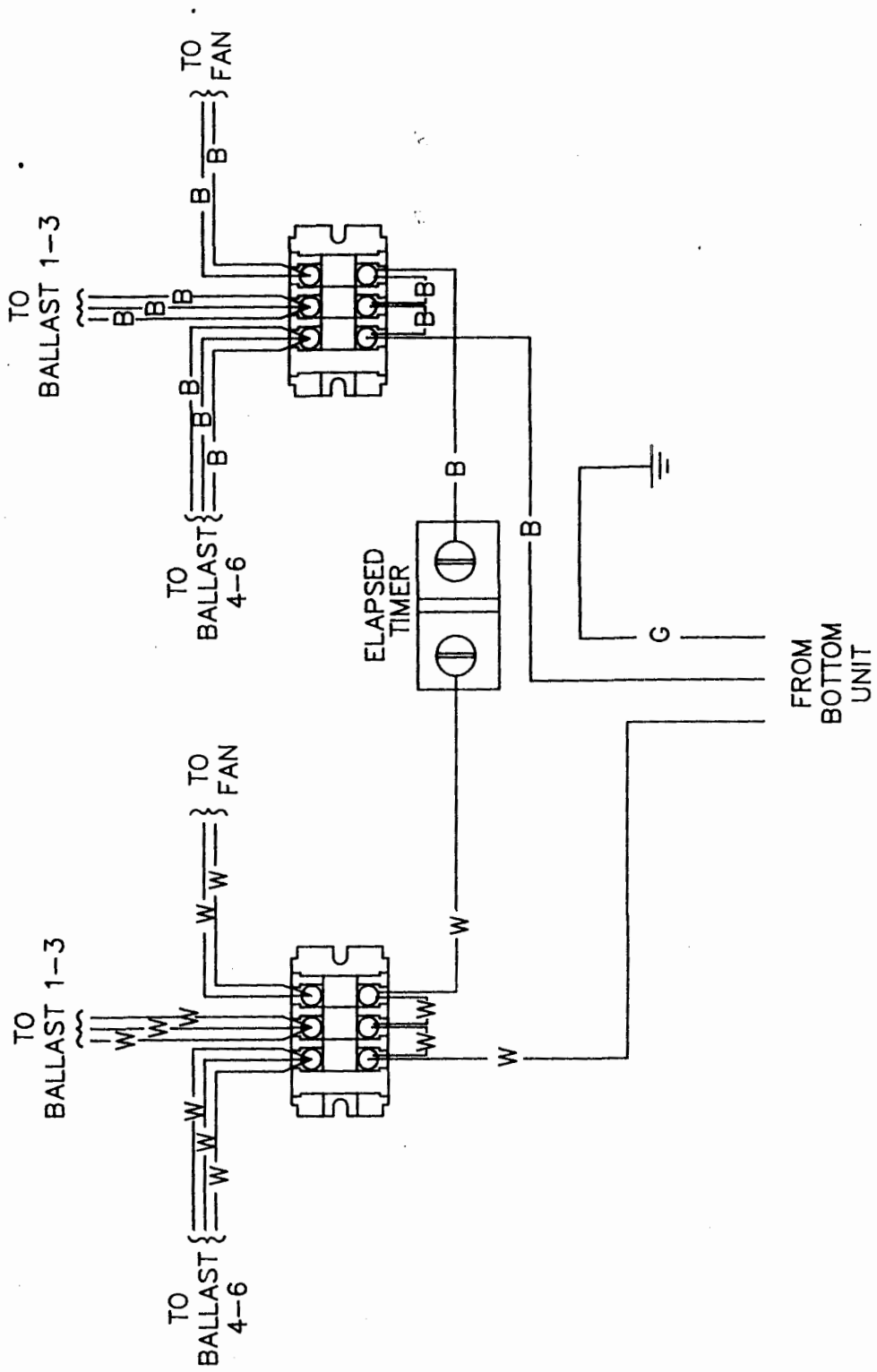
424 SL
TOP



WIRING DIAGRAM

424 SL

TOP UNIT DETAIL



General Troubleshooting

424 SL

Guide

416 SL

The following troubleshooting information is divided into two sections. Section A contains items in which the owner may check without the aid of a service person. Section B contains items which must be performed by **QUALIFIED SERVICE PERSONNEL ONLY**. If you have any questions other than the ones listed in your troubleshooting guide, contact your dealer or distributor.

(NOTE: All tanning units are not the same, therefore some of the causes may not apply to your unit.)

General Troubleshooting (Section A)

1. Tanning unit does not operate.

CAUSE

1. No power to unit.
2. Timer is not activated.

SOLUTION

1. Check circuit breaker servicing bed.
2. Press up button, then start button.

(NOTE: If there is power to the unit but the display on the timer is not lighting, you may need to replace the power board and/or the C.P.U. board. Contact Sun Industries or your local representative for information.)

2. Lamps won't light or lamps flicker.

CAUSE

1. Lamp not seated properly in lampholder.
2. Faulty lamp.

SOLUTION

1. Remove lamp, inspect contacts on lamp, and reinstall lamp securely into lampholder.
2. Replace lamp. (Refer to Instruction Manual for correct lamp).

3. Top unit does not hold its position.

CAUSE

1. Cylinder(s) wearing out.

SOLUTION

1. Replace cylinder(s).

424 SL General Troubleshooting (Section B) 416 SL

All services in the following section are to be completed by a Qualified Service Technician. This section is to aid in isolating and correcting any problems which may occur and is not intended for use by the owner. Refer to the assembly instructions included with each unit for reference in disassembling and wiring the tanning unit. Disconnect all power to the unit before servicing. Use only factory authorized components for replacement parts.

1. Tanning unit does not operate.

CAUSE

1. Incorrect connection of incoming power.
2. Faulty timer.
3. Faulty relay in bed.
4. Poor wiring connections.

SOLUTION

1. Check electrical connections on wiring diagram and correct as necessary.
2. Replace.
3. Replace.
4. Check wiring circuit against appropriate wiring diagram and correct as required.

2. Lamps won't light.

CAUSE

1. Poor wiring crimp at lampholder.
2. Faulty or damaged lampholder.
3. Incoming power to unit incorrect.
4. Faulty ballasts.
5. Loose power wire to ballasts.

SOLUTION

1. Check for loose wire and repair.
2. Replace.
3. Check incoming voltage and correct to requirements.
4. Locate and replace.
5. Locate loose wire and repair.

SUN INDUSTRIES, INC.

LIMITED WARRANTY

Sun Industries, Inc. warrants its products to be free from defects in materials and workmanship under intended normal use as described in the unit's Operation and Instruction Manual, for a period of one (1) year from date of sale.

This Limited Warranty applies only to the original purchaser of the equipment through Sun Industries, Inc. or its authorized dealer or distributor, and is not transferable.

Sun Industries, Inc.'s obligations under this warranty are limited to repair or replacement of any defective part without charge for that part to the original purchaser, with the following exceptions:

- A. Fluorescent lamps are warranted against defects for a period of thirty (30) days from date of sale.
- B. Only parts obtained through Sun Industries, its authorized dealers or distributors may be used. Transportation costs for parts shipped to the consumer and the return of defective parts to Sun Industries are not included.
- C. Labor will be furnished without charge for ninety (90) days from date of purchase only. All labor and related charges must be authorized by Sun Industries prior to start of repairs, and must coincide with Sun Industries, Inc.'s established rates and time allotment policy.
- D. Acrylic: Refer to Manufacturer's Acrylic Warranty Policy.

It is imperative that the original customer completes and returns the enclosed warranty card within 10 days after purchase to insure valid registration and coverage for potential claims.

If the warranty card is not registered, proof of purchase from Sun Industries, Inc. or its authorized dealer or distributor will be required prior to any consideration on warranty claims. This could result in service delays.

This warranty is extended to the individual or legal entity, whose name appears on the warranty registration card filed with Sun Industries, Inc., or whose name appears on the original sale document and may not be transferred to any other individual or legal entity.

This warranty does not apply to any failure of the product, or any parts of the product due to alterations, modifications, misuse, abuse, accident, improper maintenance, improper installation, acts of God or if the serial number on the product has been removed, altered or defaced. Adequate packaging must be used for returned goods to prevent freight damage.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY.

THE REMEDIES PROVIDED IN THIS LIMITED WARRANTY ARE THE EXCLUSIVE REMEDIES PROVIDED TO THE PURCHASER BY SUN INDUSTRIES, INC. AND ARE PROVIDED IN SUBSTITUTION OF ALL OTHER REMEDIES. CONSEQUENTIAL AND INCIDENTAL DAMAGES ARE EXCLUDED.

No person, firm or corporation is authorized to obligate Sun Industries, Inc. for any liability in connection with the sale or use of these goods.

WARRANTY CLAIMS POLICIES AND PROCEDURES

SUN INDUSTRIES, INC. FACTORY DIRECT ACCOUNTS

This section on Warranty Claims applies only to units obtained directly through Sun Industries, Inc. or where Warranty Claims must be handled directly through the manufacturer due to mitigating circumstances or where required by law.

PLEASE READ CAREFULLY PRIOR TO CALLING!

To file a Warranty Claim directly through Sun Industries, Inc., the following procedures must be observed.

1. Locate serial number and model number of unit under warranty. This information can be found on the back panel and/or on the leg assembly of the unit.
2. If you have not registered a completed Warranty Card with Sun Industries, Inc., proof of purchase in the form of a paid receipt/invoice, copy of canceled check or credit card statement must be provided before any claim will be considered.
3. Identify and prepare to explain to the best of your ability the problem you are experiencing with the unit.

NOTE: Consult the trouble shooting guide located in this manual prior to calling. The majority of problems customers experience are actually just basic misinterpretations of operating instructions.

4. If, after observing points 1 through 3, you still require assistance please call our Service Department at **1-800-445-0624** and notify them of your specific concern.
5. Upon identifying the problem, our Service Department will then institute a course of action designed to return unit to working order.

PARTS WARRANTY CLAIMS/CREDIT PROCEDURES

If it is determined that a defective part needs to be replaced, Sun Industries, Inc. will ship the replacement part to the customer freight collect. The customer will be billed on a net 30 basis for the part only.

At this time, the customer will be issued a return authorization (RAN) number. This number will appear on the invoice that will accompany the replacement part.

The customer will, within 15 days of receipt of new part, then be required to return the defective part to Sun Industries, Inc. The return authorization invoice (R.A.I.) must accompany the defective part in order to receive credit. A credit invoice offsetting the original bill will be issued upon Sun Industries, Inc.'s receipt of defective part and R.A.I.

NOTE: Sun Industries, Inc.'s obligations are limited to the replacement part only. Freight must be paid by the customer.

PARTS WARRANTY CLAIM/ CREDIT REVIEW

1. Customer calls Sun Industries, Inc. and notifies the Service Department of problem.
2. Sun Industries, Inc.'s Service Department determines course of action.
3. Sun Industries, Inc. ships part and R.A.I. to customer freight collect and bills customer on net 30 basis for part only.
4. Customer, within 15 days of receiving new part, returns defective part to Sun Industries, Inc. along with R.A.I.
5. Upon receipt of defective part and R.A.I., Sun Industries, Inc. issues customer a credit invoice which offsets original bill. Customer's account is returned to zero balance concerning this claim.

NOTE: If part returned to Sun Industries, Inc. proves to be operational and not defective, or if product code numbers on part do not correspond with individual unit data on file with Sun Industries, Inc., then a 30% restocking fee will be charged in addition to the retail purchase price of part.

Acknowledgement of this Agreement is not required for acceptance of the foregoing stipulations.

LABOR WARRANTY CLAIM/CREDITS PROCEDURES

Sun Industries, Inc. furnishes labor without charge for a period of 90 days from date of purchase. All labor and related charges must be authorized by Sun Industries, Inc. **prior** to start of repairs, and must coincide with Sun Industries, Inc.'s established rates and time allotment policy.

Please contact our Service Department for authorization and billing procedures.

Mandatory Reading

Always read and follow all instructions for proper usage prior to using any tanning system.

Remember:

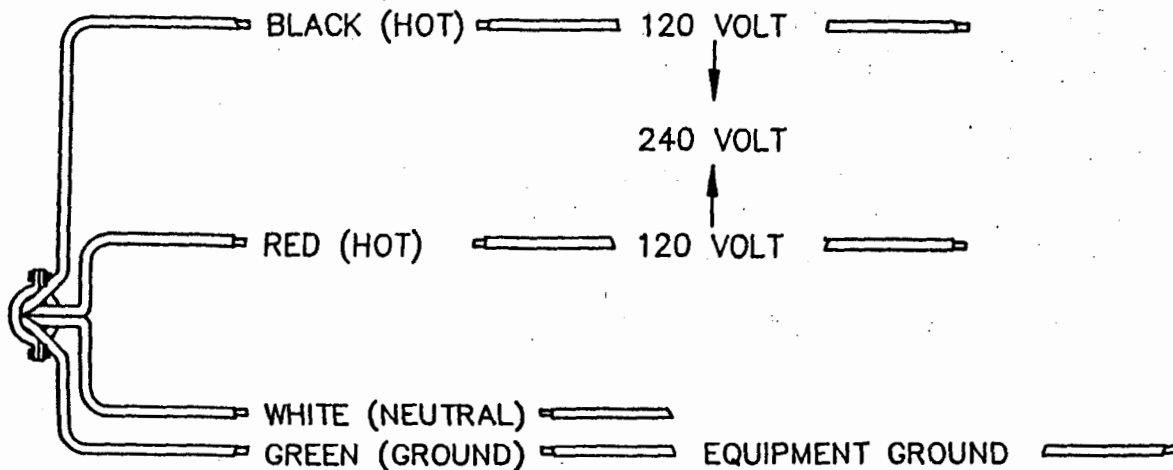
1. Follow the exposure schedule in accordance with your skin type. Failure to do so may result in overexposure.
2. A tanning system is not a toy. You cannot vary the strength of the lamps in your unit.

Should you have any questions regarding the proper use of your tanning system, contact Sun Industries at:

1-800-445-0624
8:00 a.m. to 5:00 p.m. (CST)

Thank you for your cooperation.

Wiring Diagram



CIRCUIT REQUIRED

424 SL 120/240 VOLTS 1Ø 20 AMP
1/2" FLEXIBLE CONDUIT CONNECTION
ALL FOUR (4) POWER WIRES 10 GA. OR LARGER

416 SL THE TOP AND BOTTOM OF THE 416 SL ARE EQUIPPED WITH INDIVIDUAL
POWER CORDS AND 3-PRONG PLUGS.
THE COMPLETE UNIT REQUIRES A 120 VOLT SERVICE TO FUNCTION AS DESIGNED.