



HEX II TANNING SYSTEM

Operations/Owners Manual

Model: W600 W601 L800 L801

Lamp Type: (46) 73" WOLFF BELLARIUM VHO

Serial number: _____

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USER INSTRUCTIONS (Continued)

6. *You should avoid tanning in the nude because private areas are not accustomed to ultraviolet light. This could cause severe burns.*
7. *You should NEVER have a person use this unit more than once a day.*
8. *It is recommended that any person with medium to long hair secure the hair with an elastic band or hair net.*
9. *Your HEX Tanning System comes with a one year factory warranty on all parts, excluding lamps and 90 day warranty on labor.*

This product is in conformity with performance standards for sunlamp products under 21 CFT Part 1040.

HISTORY OF TANNING

The equipment used in indoor tanning today actually was created in its original form to treat some skin disorders such as Psoriasis. It was a known fact that in some cases, sunlight helped in the treatment of certain skin disorders. Artificial lamps were created to imitate certain elements of the sun's therapeutic properties. When it was found that these lamps also caused some skin coloration, the development of indoor tanning began.

The first medical units emitted too much Ultraviolet B Rays (UVB), to be used in tanning. In 1972, Dr. Friedreich Wolff of West Germany altered the wavelength of the light spectrum and was able to isolate the Ultraviolet A Rays (UVA). Commercial tanning started in the U.S.A. in the late 1970's, and has grown to become a multi-billion dollar industry.

Almost everyone has been looking for an easy, effective way to tan, because we all want to look and feel our best. And, our busy lifestyle doesn't afford us the time just to lie around for hours to tan. Through advanced technology and modern design concepts, the Tanning System you are offering makes tanning easy, fun, fast, and effective for virtually everyone.

HOW TANNING OCCURS

The sun emits three types of non-visible ultraviolet rays, (UVA), (UVB) and (UVC).

The lengths of these rays determine how harmful they are to the skin and eyes.

Ultraviolet C Rays (UVC) are extremely harmful to you because they are short in wave length. UVC rays are below 260 nanometers in length. (A nanometer is one-billionth of a meter.) Fortunately, the ozone layer of the earth's atmosphere acts as a filter and absorbs virtually all of these rays. THERE ARE NO UVC RAYS IN THE HEX TANNING SYSTEM.

Ultraviolet B Rays (UVB) are 260/320 nanometers. In layman's terms, A NOON SUN. Sunburn is usually the result of excessive exposure to these middle wave length rays. However, a controlled minimum exposure to (UVB) rays is necessary to the tanning process. Melanin, a pigment existing in the deep layers of the skin is released into the skin cells by the UVB rays. It is because of Melanin that tanning takes place.

Ultraviolet A Rays (UVA) are 320/400 nanometers. In layman's terms, a before 11 a.m. and after 2 p.m. sun. Tanning takes place when these rays oxidize the Melanin pigment, which has been activated by the UVB rays.

HOW OUR UNIT TANS

The hexagonal shape of the unit has been proven to be the most effective design for producing an overall tan. The unit is lined with a special reflective material called Coilzak. This material scatters the light and reflects it off all six sides. This reflection/diffusion action creates a continuous even flow of tanning rays throughout the unit. You get a better tan because you are exposed to both direct and reflected light at the same time.

Our Tanning System design uses forty-six, 160 watt - 1500 milliamp lamps, for fast, effective tanning. The Wolff Bellarium VHO lamp, manufactured by Sylvania for WolffSystem Technology combines the trusted name of Wolff with the lamp technology of Sylvania to create one of the most popular lamps the industry has to offer. The Wolff Bellarium VHO combined with the HEX Classic Tanning System is the perfect combination for fast, effective tanning.

When you combine the design technology with the UVA - balanced lamp system we use, you can be assured you will get an even tan.

WHY THE HEX TANNING SYSTEM IS RIGHT FOR YOU

1. **HYGIENIC.** *With bed-type units people must lie on an acrylic sheet; the same sheet others have laid on, perspired on, and that has been (hopefully) cleaned after each use with a strong disinfectant. With all the communicable diseases today, people do not want to lie in anybody's anything. Our upright unit eliminates the risk of this potentially dangerous problem, because only the users feet come in contact with a common surface.*
2. **VIRTUALLY MAINTENANCE FREE.** *Bed-type units must be cleaned thoroughly after each session. Our Unit only needs to be wiped down at the end of the day.*
3. **FAST.** *Only 10 to 12 minute sessions are required. Bed-type units require 25 to 30 minute sessions. People prefer a fast tan, it fits into their busy life styles better.*
4. **COMFORTABLE.** *Our Unit is air-cooled by a unique fan system: Air is drawn through the bottom louvers and discharged at the top, creating the "perfect" tanning climate. It is just like being on a tropical island.*
5. **RELAXING.** *Our Unit has built-in speakers to provide music while you tan.*
6. **ATTACHED CHANGE ROOM.** *This provides privacy for the user and eliminates expensive remodeling for you. All you need is 28 square feet of floor space.*
7. **EASY TO USE.** *The tanning cycle is set at the desk by an experienced operator. The user merely pushes the start button inside the tanning unit when they are ready to tan.*

8. *U.L. LISTED.* Our unit is the only stand up tanning system in the country that is U.L. listed - a mandatory requirement in most states.
9. *CUSTOM MADE.* Each unit is hand crafted in the tradition of fine furniture.
10. *LONGEVITY.* Our unit was introduced to the market in 1979 and the first units placed in salons at that time still look and run like new.

TANNING ADVANTAGES

- * *Virtually recession proof*
- * *Very low advertising costs*
- * *Increases foot traffic*
- * *Increases profitability without adding additional labor*
- * *100% owner income*
- * *Low operating costs*
- * *Creates activity*
- * *NO major build-out requirements*
- * *Adds a second profit center without major renovations*
- * *Uses only quality U.L. components and parts*

OFTEN ASKED QUESTIONS

Q. HOW LONG CAN I STAY IN THE HEX?

A. *Simply follow the recommended exposure schedule posted in the unit.*

Q. HOW OFTEN CAN I TAN?

A. *Our unit can be used daily, but never more than once a day.*

Q. HOW OFTEN SHOULD I USE THE UNIT TO MAINTAIN MY TAN?

A. *One to two times per week are recommended, depending on skin type.*

Q. WILL TANNING DRY MY SKIN?

A. *No, if used in the proper manner. A lotion is recommended but not required. Most clients may wish to use a lotion to add emollients to the skin in order to keep it soft and supple at all times.*

Q. DOES THE HEX WORK ON VERY FAIR SKIN?

A. *YES. It may take a little longer to bring out a tan on fair skin, but the HEX has performed well on all skin types.*

Q. CAN I USE TANNING IF I AM PREGNANT?

A. *Have your physician make this determination.*

Q. WILL MEDICATION EFFECT MY TANNING?

A. *If your client is taking a medication or has a food allergy, request that they consult with their physician before tanning.*

HOW TO OPERATE A SUCCESSFUL TANNING BUSINESS

Ultraviolet light can cause serious eye problems. The UVA rays can produce retinal burns and UVB rays can burn the cornea. **MAKE SURE ALL CLIENTS USE PROPER EYE PROTECTION.** Each unit is supplied with two pair of goggles. The goggles must be properly disinfected after each use to prevent the spread of any eye infections, by cleaning thoroughly with a soft cloth and rubbing alcohol. Most clients will usually want to purchase their own goggles. This is an excellent opportunity for additional income to your business.

You must examine the clients skin type and determine which category they fall into. Notice if they have a base tan and ask them the following questions:

1. Have you been tanning and for how long?
2. Have you tanned in the last 24 hours?
3. Are you on any medication?
4. (Female clients) Are you pregnant?

If the client is on medication or pregnant, request that they consult their physician before tanning.

No one may tan more than once every 24 hours. Only one person is allowed in the booth at one time.

Every client should be educated to the proper steps to follow to achieve their maximum tan. Remember, all of us tan at a different rate and there is a maximum level that each of us will reach. Tanning is a gradual process so make sure that the client does not have an unrealistic expectation.

RECOMMENDED EDUCATION OF THE STAFF

We all know that proper education of your staff is key to the success of your business. Tanning is no different than any other service. While it is not a necessity for formal education of tanning to be required, it is only common sense that you would want at least one member of your salon to attend a seminar on tanning and learn the basic facts about indoor tanning. There are many educational associations across the country that conduct seminars on a regular basis, and at a very reasonable cost.

One nationwide organization that provides excellent education and gives all of its members regular updates on government regulations, is S.A.E. (Suntanning Association for Education.) You may wish to contact this organization or others that can assist you learn more about the indoor tanning industry.

*Suntanning Association for Education (S.A.E.)
P.O. Box 1181
Gulf Breeze, Florida 32562-1181
800/536-8255*

LIABILITY INSURANCE

We recommend that you carry a minimum of 1 million dollars in tanning liability insurance. You want it to have cancer coverage and "tail" coverage available. Make certain the coverage is per occurrence and not simply the aggregate amount.

We do not endorse any specific insurance company, however, following are two insurance companies that you may want to contact:

*Professional Programs Insurance Brokerage
Attention: Susan Preston
1200 Van Ness Avenue, Suite 200
San Francisco, CA 94109
415/885-1331*

*I.M.C. (Insurance Marketing Center)
Attention: Paula Whitenight
14500 Burnhaven Drive, Suite 135
Burnsville, MN 55306
800/245-0023*

TANNING PACKAGE PRICES
(Sample)

ONE VISIT	\$3.95
10 VISIT PACKAGE	19.95
30 DAY PACKAGE, UNLIMITED VISITS	29.95
3 MONTHS, UNLIMITED VISITS	79.95
6 MONTHS, UNLIMITED VISITS	149.95
1 YEAR, UNLIMITED VISITS	219.95
1 YEAR RENEWAL	169.95

* One dollar per visit service charge required with all packages (OPTIONAL). If service charge is used, the above example prices may be lower.

* All Tanning should be non-refundable.

* All packages are activated on first tanning visit.

* Limited to one visit per 24 hours.

* All packages are consecutive days and end the specified time after package is first used. Example: 3 month package expires 3 months after package is activated by first visit.

* Your prices should be set to be competitive in your local market.

TANNING PRODUCTS

Tanning products are an excellent source of additional income for your business. Following is a list of recommended products and their function:

ACCELERATORS: *Recommended for the beginning tanner regardless of skin type. They are designed to elevate melanin production by stimulating the melanocytes and therefore accelerating the tanning process. Most accelerators are also helpful in moisturizing the skin which prolongs the tan. When the tanning plateau is reached, a stronger product is needed.*

AMPLIFIERS: *They are made to amplify the UV light and direct it into the skin. They work best when a base tan has been established but before the tanning plateau has been reached. Amplifiers can also be used with an accelerator to achieve a base tan in a shorter time.*

INTENSIFIERS: *Designed for the advanced tanner who has reached the tanning plateau and wishes to deepen their tan. They break through the top dermal layer of skin and activate the melanocytes for a powerful melanin production. Intensifiers also provide moisture to the skin which is still key to maintaining the life of the tan.*

MOISTURIZERS: *A very important last step, moisturizers are necessary to help inevitable loss of moisture. They prolong the tan and soften the skin for a healthy glow.*

SKIN TYPES

The first step in determining proper exposure time is to evaluate what skin type your client has. Skin types are divided into six groups. Your client must fall into one of these six groups:

SKIN TYPE	SKIN REACTION TO SOLAR RADIATION	EXAMPLES
I	Always burns painfully. Tans little or not at all.	Fair skin-maximum white. Freckles. Blue eyes.
II	Burns easily and painfully. Lightly tans. Peels.	Fair skin. Red or blonde hair. Blue or hazel eyes.
III	Burns moderately. Average tan.	Average caucasian.
IV	Burns minimally. Tans easily and above average each time. Gets pigment darkening.	White or light brown skin. Dark brown hair. Dark eyes. People who already have achieved a base tan.
V	Rarely burns. Tans easily with immediate pigment darkening.	Brown skinned people. Unexposed skin is brown.
VI	Never burns. Tans profusely. Exhibits immediate pigment reaction.	Blacks. Unexposed skin is black.

Skin type I should never be placed in the tanning unit . The amount of exposure time will increase as the skin type is a higher number. Please make certain that your entire staff knows how to judge skin type and knows the proper exposure time for each type of skin.

NEVER OVEREXPOSE ANYONE TO UV RAYS. *The most effective way to achieve the maximum tan is to do it gradually.*

Protecting your sensitive areas before tanning can help prevent overexposure that can cause dry, irritated skin.

LIPS do not produce Melanin, so they will not tan. However, they can become red and chapped.

PRIVATE AREAS, those normally covered by a bathing suit, should be covered while tanning. (WE DO NOT RECOMMEND TANNING IN THE NUDE). If your client does tan nude, advise them that their private areas should only be exposed 3 or 4 minutes each tanning session to avoid any irritation or soreness.

NOTE: IF YOUR CLIENT IS TAKING ANY MEDICATIONS OR HAS A FOOD ALLERGY, PLEASE HAVE THEM CONSULT THEIR PHYSICIAN BEFORE TANNING.

HISTORY AND CONSENT FORM

NAME _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

HOME PHONE _____ BUSINESS PHONE _____

Please read and sign the following precautions necessary before tanning.

1. Any person using any tanning device in this facility must use proper eye protection. If eye protection is not worn, use of the tanning device may cause damage to the eyes.
2. Overexposure to ultraviolet radiation may cause burns.
3. Repeated exposure to ultraviolet radiation may cause premature aging of the skin and skin cancer.
4. Abnormal skin sensitivity to ultraviolet radiation or burning may be caused by certain foods, cosmetics or medications. Any person taking a prescription drug or over-the-counter drug should consult a physician before using a tanning device.
5. A person under eighteen (18) years of age may not use a tanning device in this facility unless the parent or legal guardian has signed this History and Consent Form. This form must be signed and witnessed by an operator in this facility.

I agree that I will comply with all instructions on the use of the UV system and that I am using these services at my own risk.

Name (print)

Signature

Guardian Signature

Date

NAME: _____

PACKAGE

PURCHASED: _____ START DATE: _____

APPOINTMENT SCHEDULE

VISIT	DATE	SESSION LENGTH	COMMENTS	INITIALS
1				
2				
3				
4				
5				
6				
7				
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24				
25				

CONTRACEPTIVES, ORAL & ESTROGENS (birth control pills, female sex hormones)

ESTROGENS

Chlorotrianisene
Diethylstilbestrol
Estradiol
Estrogens, conjugated
Estrogens, esterified
Estropipate

PROGESTOGENS

Ethinyl estradiol
Medroxyprogesterone
Megestrol
Norethindrone
Norgestrel
Quinestrol

NSAID: NON-STEROIDAL ANTI-INFLAMMATORY DRUGS (antiarthritics)

Diclofenac	Indomethacin	Piroxicam
Diffunisal	Ketoprofen	Sulindac
Fenoprofen	Meclofenamate	Suprofen
Flurbiprofen	Naproxen	Tolmetin
Ibuprofen	Phenylbutazone	

PHENOTHIAZINES (major tranquilizers, anti-emetics)

Acetophenazine	Methdilazine	Promethazine
Butaperazine	Methdilazine	Propiomazine
Carphenazine	Methotrimeprazine	Thiethylperazine
Chlorpromazine	Perphenazine	Thioridazine
Ethopropazine	Piperacetazine	Trifluoperazine
Fluphenazine	Prochlorperazine	Triflupromazine
Mesoridazine	Promazine	Trimeprazine

PSORALENS

Methoxsalen Trioxsalen

SULFONAMIDES ("sulfa" drugs, antimicrobials, anti-infectives)

Acetazolamide	Sulfamethizole	Sulfinpyrazone
Sulfacytine	Sulfamethoxazole	Sulfisoxazole
Sulfadiazine	Sulfapyridine	
Sulfadoxine	Sulfasalazine	

SULFONYLUREAS (oral anti-diabetics, hypoglycemics)

Acetohexamide
Chlorpropamide

Glipizide
Glyburide

Tolazamide
Tolbutamide

THIAZIDE DIURETICS ("water pills")

Bendroflumethiazide
Benzthiazide
Chlorothiazide

Chlorthalidone
Cyclothiazide
Hydrochlorothiazide

Hydroflumethiazide
Methyclothiazide
Polythiazide
Trichlormethiazide

TETRACYCLINES (antibiotics, anti-infectives)

Chlortetracycline
Demeclocycline
Doxycycline

Methacycline
Minocycline

Oxytetracycline
Tetracycline

TRICYCLIC ANTIDEPRESSANTS

Amitriptyline
Amoxapine,
Desipramine

Doxepin
Imipramine
Nortriptyline

Protriptyline
Trimipramine

ASSEMBLY INSTRUCTIONS - HEX

(46 LAMP TANNING UNIT)

1. Electrical components are not provided. You will need a licensed electrician for the proper completion of your electrical installation.

One 50 amp breaker is required at the main service box. Conduit is required to wire the unit directly to the electrical service panel.

Unpack boxes and lay out all parts.

2. All panels are numbered and pre-drilled as follows: Floor #1, door #2, walls #3, #4, #5, #6, #7 and roof #8. (Figure #1)

3. Contents of Assembly Bag:

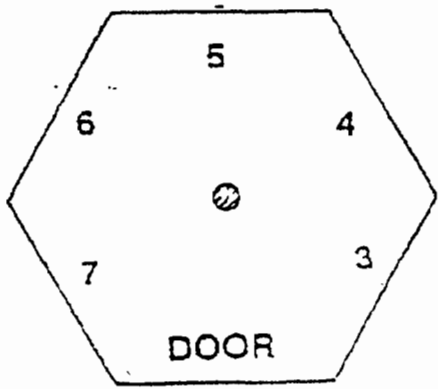
Package #1: 2" Black drywall screws
Package #2: 1 1/8" Black drywall screws
 1/2" Silver wood screws
Package #3: 1 1/2" Finish nails
Package #4: 1 1/2" Finish nails
Package #5: 2" Silver Screws
 9 - Red wire nuts
 12 - Yellow wire nuts
 6 - Wing nuts
 1 - 10 amp fuse (extra)
 1 - 15 amp fuse (extra)
 1 - 20 amp fuse (extra)
 2 - pair ultra-violet goggles

If unit comes with attached dressing room, the following additional items are included in package #5: ,

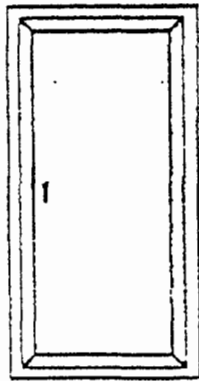
3 - 40 watt light bulbs
1 1/8" Drywall screws
20 - 3 3/4" Black screws
4 - 2" Black Drywall screws
1 - Door stop
2 - Clothes hooks (1 hook is used if unit is Lt. Oak finish)
1 - change room door knob (Lt. Oak finish only)
1 - set of keys for change room door (formica finishes only)

4. Lay floor (#1) down on a level surface. Note the (2) two wall pin plates on one side of the floor. This is the door opening. Place the floor in the proper direction for the door opening. (see figure #2)
5. Working counter-clockwise, place wall #3 over the floor pin plate engaging the pin/hole in wall #3. Set wall #4 next to wall #3. Screw the two walls together with 2" screws from package #1 through the pre-drilled hole in each wall (see figures #3). Continue this step with walls #5, #6 and #7, making sure walls are flush at the top of the panels (see figure #4).

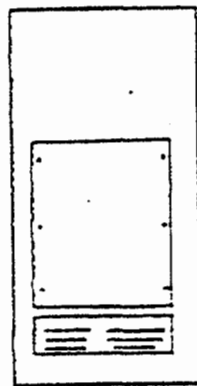
6. Place roof on top of unit. Feed flex conduit from the light fixtures through the appropriate holes. Start with wall #3 and align the wall with the plate on the roof. Attach with screws from package #5. Next, attach wall #7, making sure to align the wall with the plate on the roof. Continue with walls #6, #5 and #4. All holes in roof are pre-drilled to match pre-drilled holes in wall. Make sure the screws enter the proper holes so the HEX door will mount properly (see figures #5)
7. Using a 1 3/4" shim from the HEX door box, place it on the floor where the door is to be attached. Place the door on the shim. Feed the cord from the door through the hole in the #3 wall. After cord is through the hole in the #3 wall, feed it up through the top of the wall. Align the holes on the hinge with the holes on the door and screw them together with screws from package #2. There is a black piece of tape on the grey conduit on the #3 wall which indicates clamping position; clamp conduit where the tape is. Place molding over the hinge and nail it through the pre-drilled holes.
8. All flex conduit runs into a junction box on top of the roof. Start by connecting all ground wires to buss bar mounted in the bottom of the junction box. Connect all corresponding wires together (example: #25 to #25; #26 to #26). Connect all #7 wires together. All neutral wires are numbered #3, #3+ and #3-. Wire nut all #3 wires together. Wire nut all #3+ wires together. Wire nut all #3- wires together. Place all wires in the junction box and install cover.
9. If no change room is to be attached, install pre-cut outside corner moldings, in 2 places, with nails from package #3.
10. Install silver molding on the inside of each corner of the unit. Nail in place with nails from package #4. When attaching the two door mouldings, close the door first, then attach the mouldings.
11. Install the lamps by inserting the top of the lamp into the top plunger socket. Push up gently and align the bottom of the lamp with the bottom stationary socket. Release lamp into socket.
12. Install mesh screens (lamp guards). The two notched screens are to be placed on walls #7 and #6 (they are notched for easy access to the push buttons and fan control button). To install screens, place the bottom of the screen in the lip of the socket fixture. Lift the screen and tighten with the wing nut at the top socket holder to hold in place.



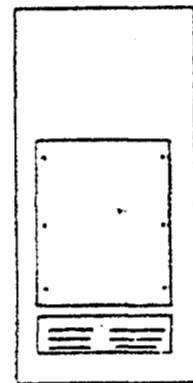
HEX FLOOR
#1



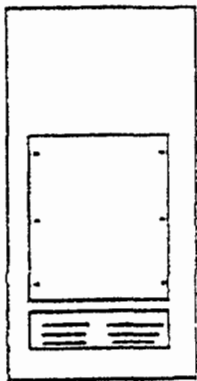
HEX DOOR
#2



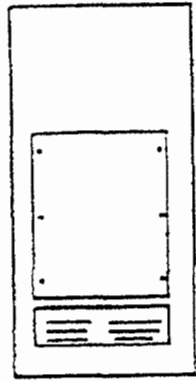
WALL #3



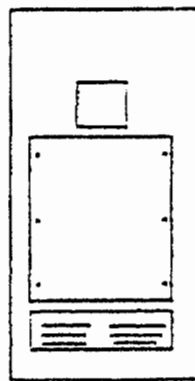
WALL #4



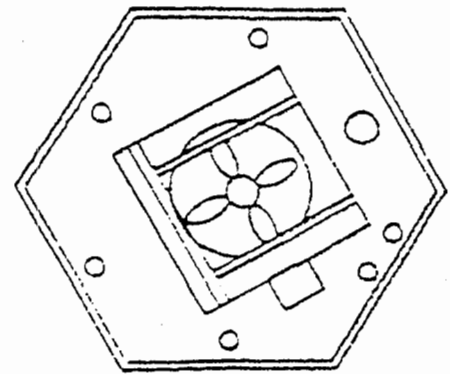
WALL #5



WALL #6



WALL #7



HEX ROOF
#8

(FIGURE 1)

HEX II FLOOR ASSEMBLY

1. PLACE THE FLOOR ON A LEVEL SMOOTH SURFACE THAT IS ABLE TO SUPPORT THE WEIGHT OF THE UNIT.
2. FLOOR SHOULD BE PLACED 10" TO 12" FROM THE ROOM WALL.

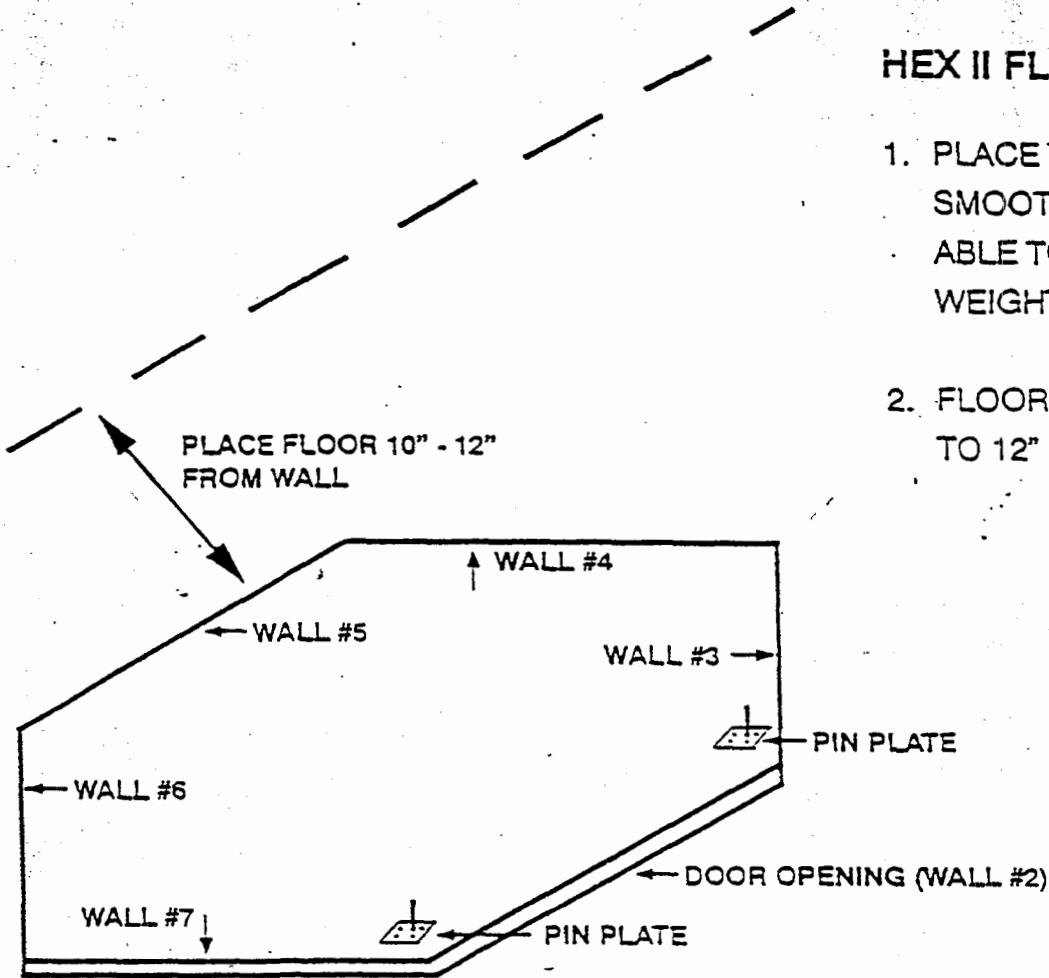


Figure 2

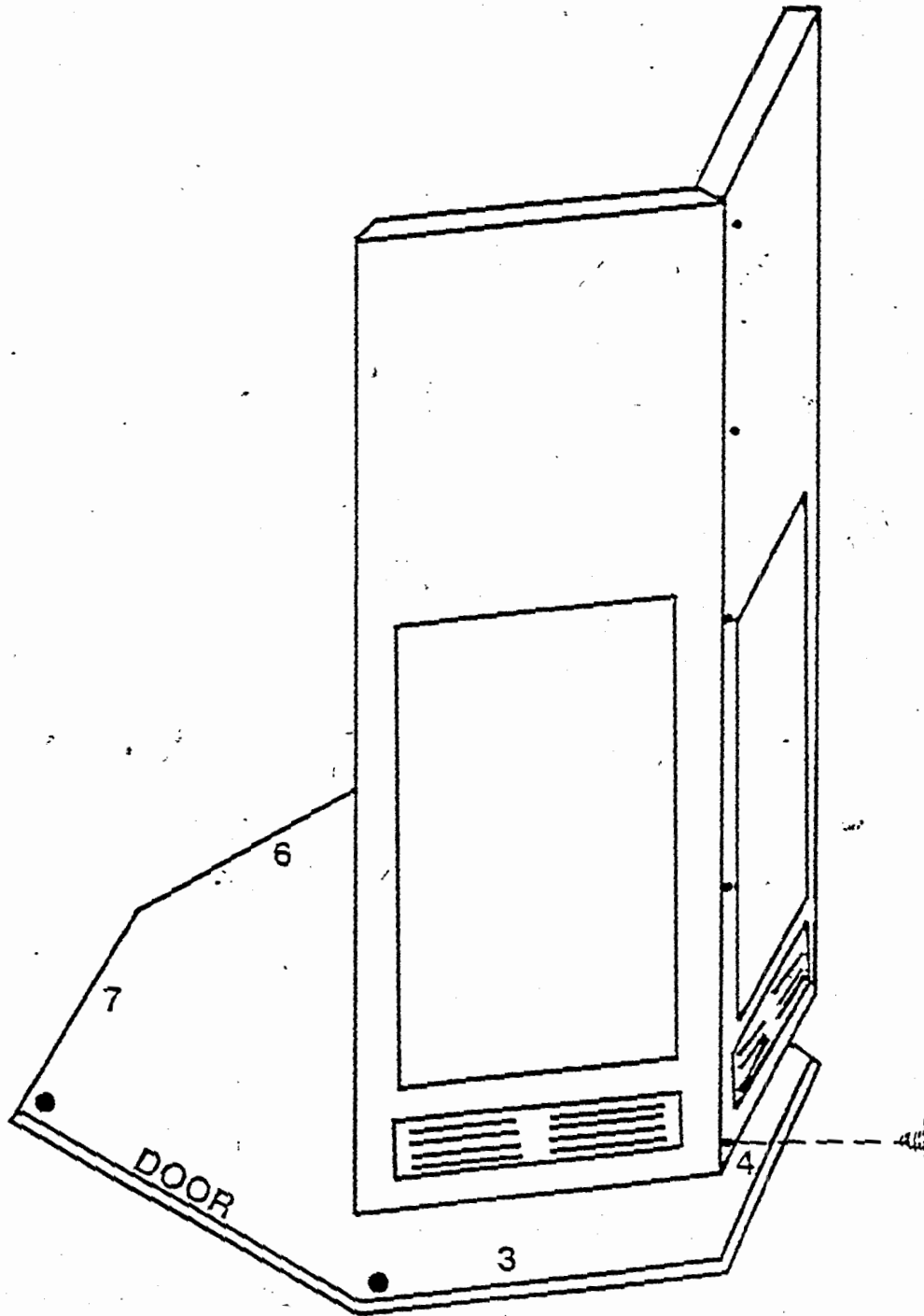


FIGURE 3

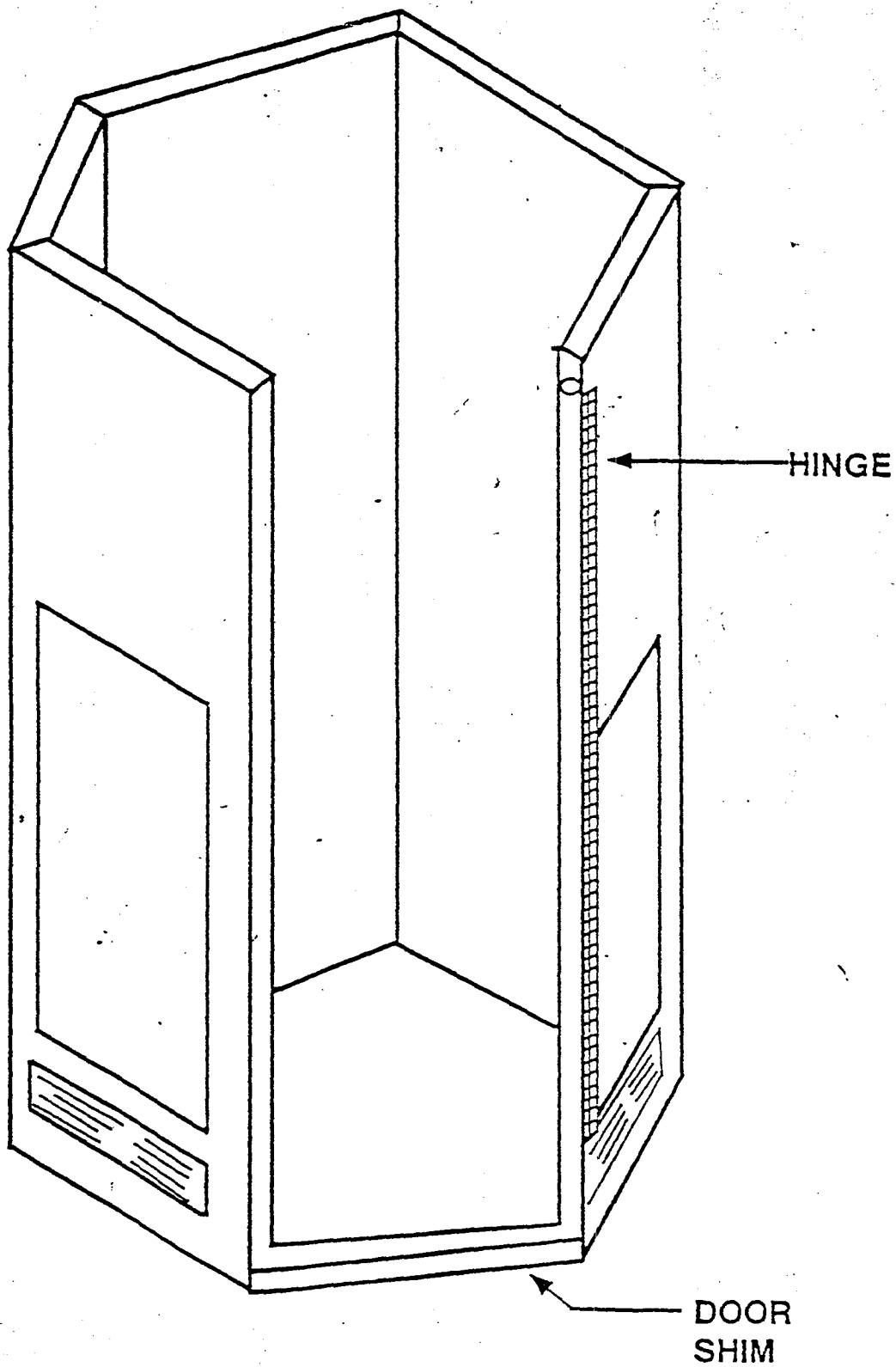
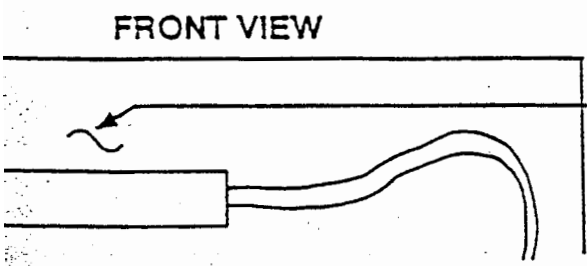
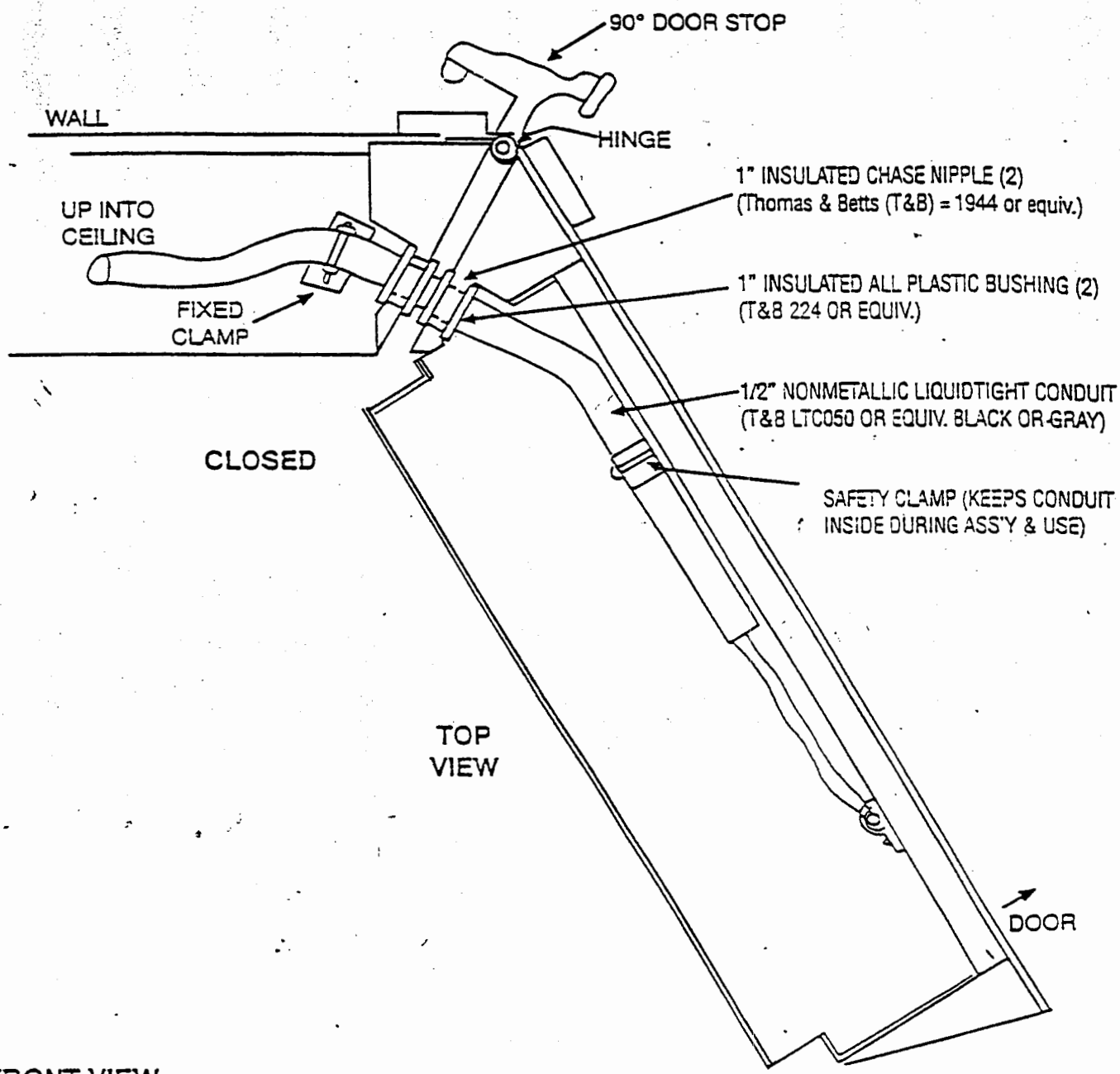


FIGURE 4



Conduit to move freely
on surface of sheet metal
enclosure, no holes, burrs,
or obstructions

FIGURE 7

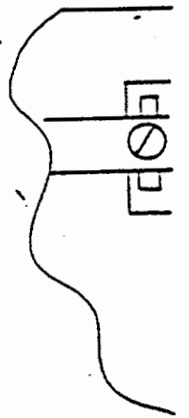
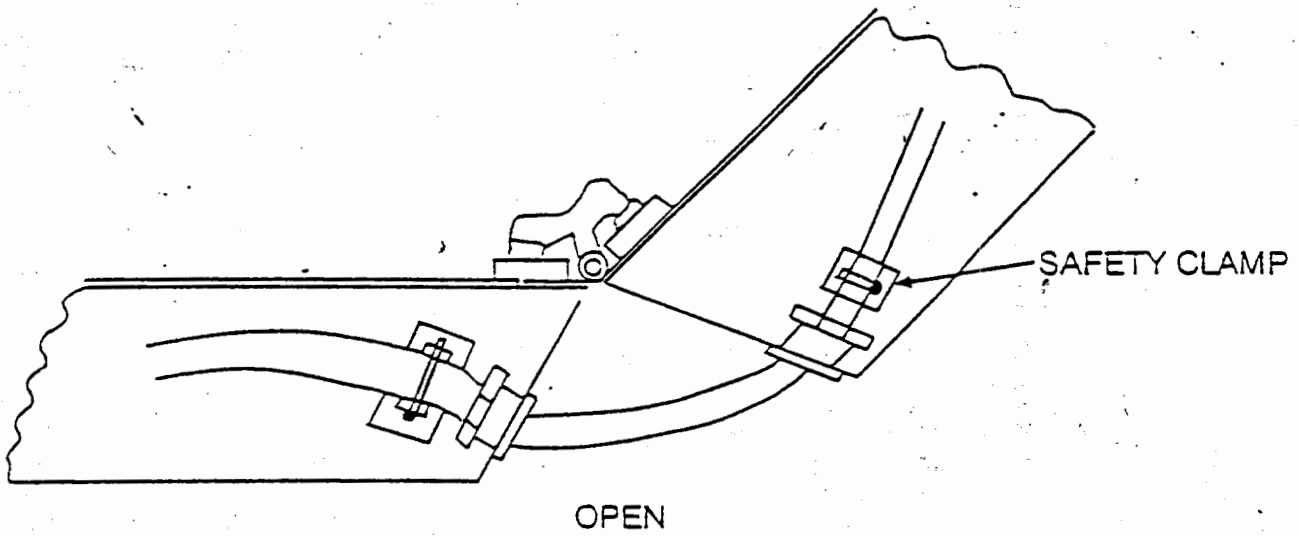
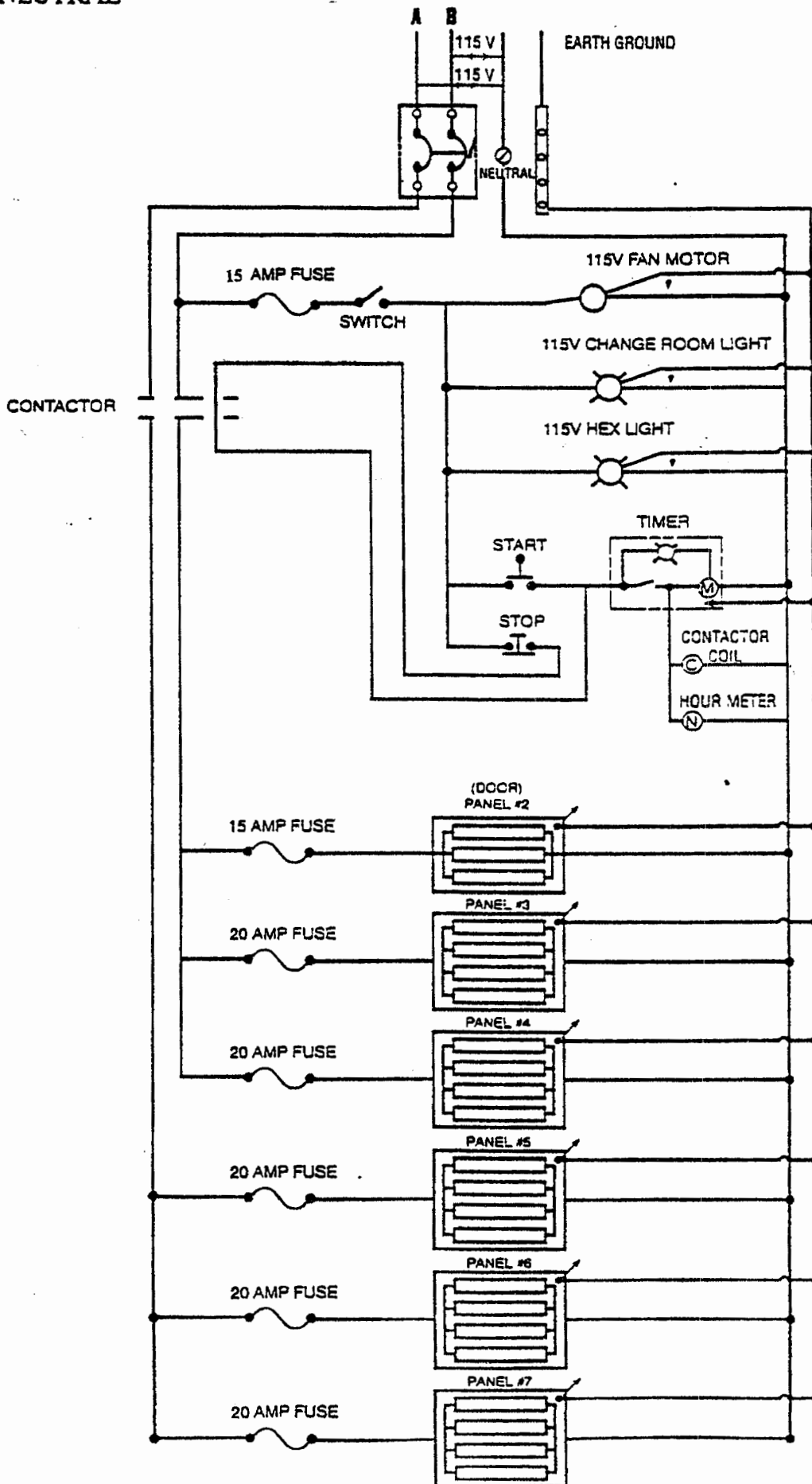


Figure 8

115V (2 CIR.)
SINGLE PHASE WITH
NEUTRAL

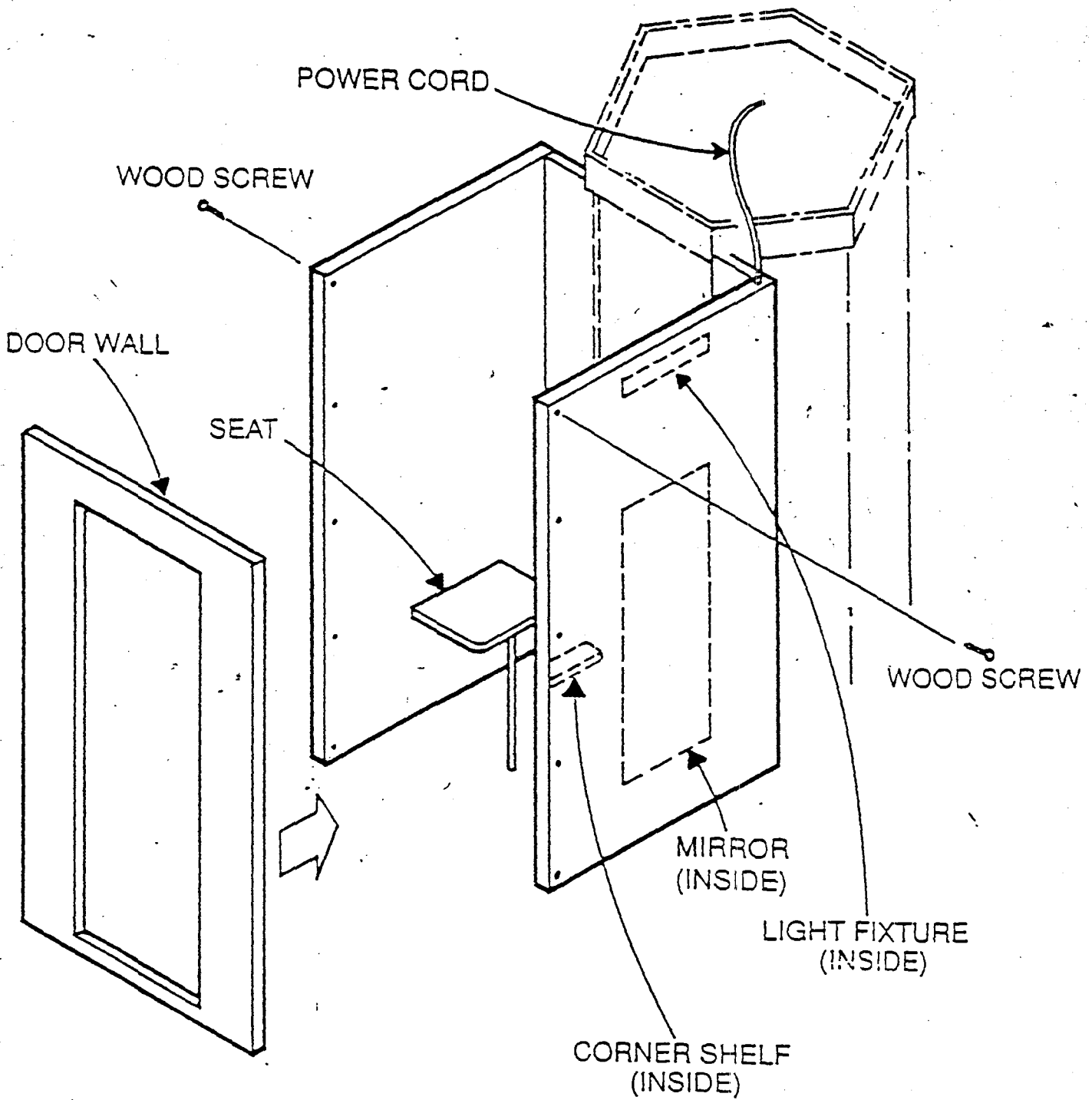
HEX II
DOMESTIC 60 Hz



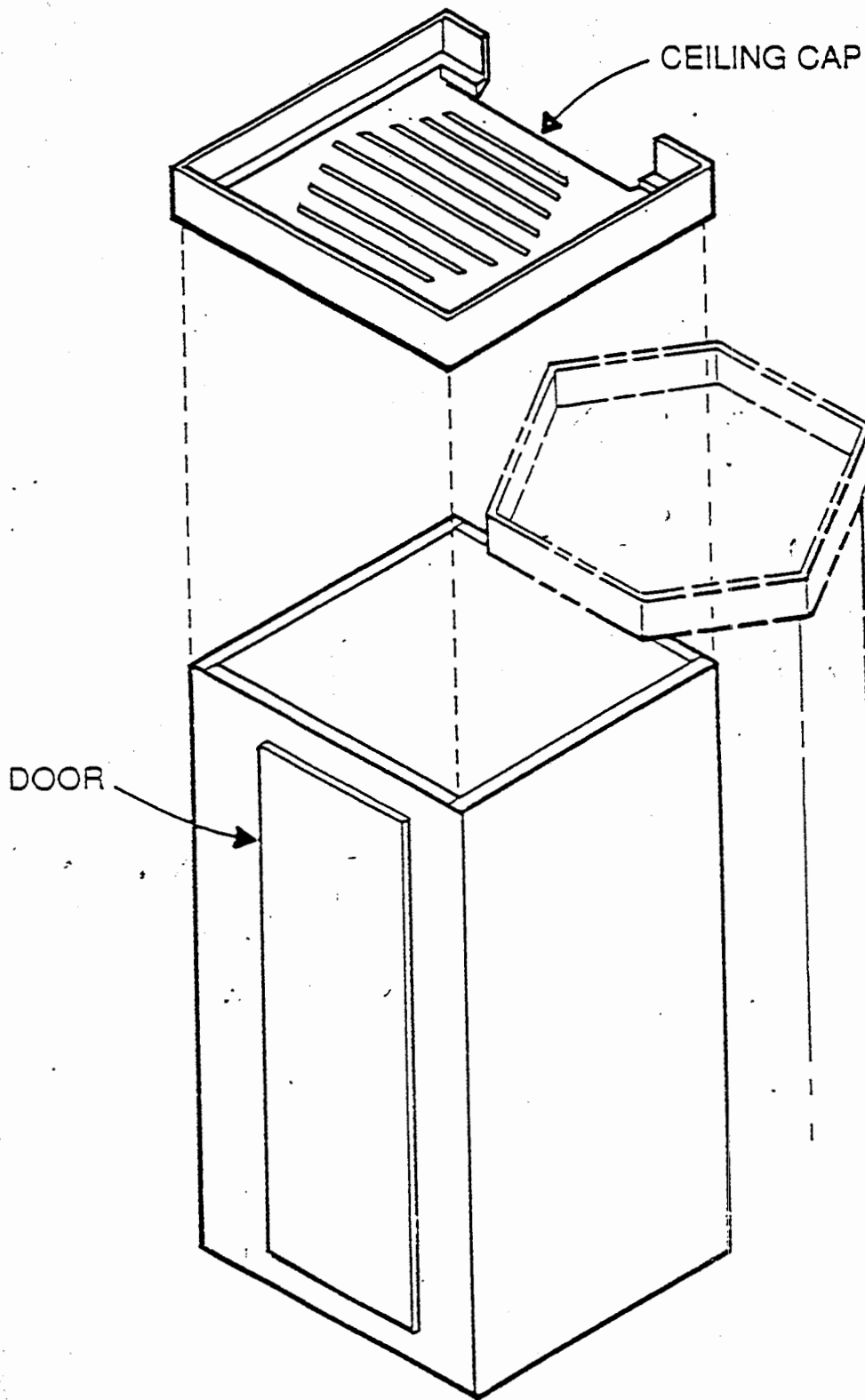
ASSEMBLY INSTRUCTIONS - HEX (46 Lamp Change Room)

1. Unpack boxes and lay out all components:
 - 2 - wing panels
 - 1 - light fixture wall
 - 1 - seat wall
 - 1 - door
 - 1 - change room roof
 - 4 - exterior moldings
 - 5 - interior moldings (3 long, 1 medium, 1 short)
 - 1 - corner wall shelf
 - 1 - black threaded seat pole
 - 1 - door handle and lock set (if not factory attached)

Note: The change room has no floor.
2. Set narrow right hand wing panel (labeled #1) parallel and flush to the door corner, which is notched to fit in place at the top where the roof connects. Screw together with 2" screws from (package #1) through (5) pre-drilled holes. Attach left hand narrow wing panel (Labeled #2), the same way as the right hand wing wall. Set the light fixture wall on the right side of the unit, so the light fixture is facing inward. Screw into panel #1 with 3 3/4" screws (from accessory bag) through (5) pre-drilled holes. Attach seat-wall on left side of unit, in the same way. (Make sure seat is facing inward.) (Figure 1)
3. Set door-wall panel in place. Screw together with 3 3/4" screws (from accessory bag) through (5) pre-drilled holes. (Figure 2)
4. Install roof-panel. The flex conduit from the light fixture must be inserted through cut-out provided. Make sure both roofs are butted together. (Figure 3)
5. Run flex conduit from the light fixture to junction box on the HEX[®] roof and make connections to corresponding numbers (#3's, #4's, #7's) Install outside corner moldings with finish nails from (package #3).(Figure 4)
6. If the unit is a formica laminate, there are five inside corner mouldings to be attached. Nail the smallest piece of moulding to the top corner where the change room shelf is to be placed. Install the corner shelf with (3) silver 5/8" screws (from accessory bag). Nail the four foot piece under the shelf. The remaining three pieces are attached to the other three corners.



(FIGURE 2)



(FIGURE 3)

UNIT OPERATION

1. Turn the toggle switch on the main control panel to the "on" position. This will start the fan and turn on the HEX[®] ceiling lights. (If you have a change room, this will also turn on the change room globe lights)
2. Set the timer to the desired minutes.
3. When your customer enters the unit, they will push the "on" button (located on the right hand wall as you are facing the door.) This will turn the tanning lamps on and start the timer.
4. When your customer turns on the unit, the green light on the timer box will light. When the tanning time has expired, the light will go out.
5. The "off" button inside the unit is used to turn off the tanning lamps in the event that your customer decides to end his tanning session prior to the timer automatically turning off the lamps.
6. When the desired time has expired, the tanning lamps will turn off. However, the fan and courtesy lamp will remain on to cool the unit.
7. At the end of the day, turn the toggle switch to the "off" position.

Warning! Do not operate the unit with the lamp guards off.

TROUBLE SHOOTING GUIDE

UNIT:

1. Check power to the unit
2. Check breaker (on unit and at main control panel)

FAN:

1. Check 10 amp fuse
2. Check breaker
3. Check toggle switch
4. Check fan motor

FAN WORKS, LIGHTS DON'T:

1. Check on/off push button
2. Check contactor

TWO LIGHTS OUT ON ONE WALL:

1. Check lamps
2. Check sockets
3. Check for loose wires (connecting sockets)
4. Check ballast

PANELS OF LIGHTS OUT:

1. Check fuses
2. Check power to unit (may have one leg of power out)
3. Check breaker.

CONTACTOR DOES NOT CLOSE:

1. Check the voltage coil. This should be 100 volts. To do this, the timer must be on and the start button must be depressed. If the voltage is correct, the coil is bad and the contactor needs to be replaced.

CONTACTOR BUZZES AND ARCHING:

1. Contactor may be dirty.

FAN DOES NOT WORK:

1. Check fan motor
2. Check for loose wires

TIPS TO CHECK OUT PARTS:

1. To check toggle switch, use a volt meter. Attach one lead to the neutral bar, the other to the junction terminal at the fuse bar. Turn the toggle switch on and off. The power should go on and off.

2. To check the On/off pushbutton, attach a volt meter to the neutral bar and to terminal #13 on the contactor. You should get a reading of 110 volts. If not, the stop button is bad. To check the start button, attach a volt meter to the neutral bar and to terminal #14 on the contactor. This should not read anything. Press the start button and you should now get a reading of 100 volts. If not, the start button is bad.
3. To check the timer, attach a volt meter to the neutral bar and to terminal #14 on the contactor. You should get no reading. Depress the start button. You should now get a reading of 110 volts. If you get a reading of 110 volts, make sure the timer is on and attach a Volt Meter to A2. Depress the push button. If you do not get a reading of 110 volts, the timer is bad..

The manufacturer suggests that screws be re-tightened every six months. Any electrical device can cause screws to loosen during normal use.