

puretan

St. Croix 26

OWNER'S MANUAL

ASTERISK, INC.
MANUFACTURERS FOR
PURETAN, INC.
4113 LINDBERG DR.
DALLAS, TEXAS 75244
800-338-8267

Use ONLY in a fixture equipped with a timer SUNLAMP - DANGER - ultraviolet radiation. Follow instructions.

WEAR PROTECTIVE EYEWEAR; FAILURE TO MAY RESULT IN SEVERE BURNS OR LONG-TERM INJURY TO THE EYES.

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.

Medications or cosmetics may increase your sensitivity to the ultraviolet radiation. Consult physician before using sunlamp if you are using medications or have 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.

EXPOSURE TIME AND FREQUENCY

WEEK	1	1	1	2	2	2	2	3	3	3	3	4	4	4
SESSIONS	1	2	3	1	2	3	1	2	3	1	2	3	1	2
MINUTES PER DAY	3	3	5	5	7	7	10	10	12	15	18	20		

A spacing of 48 hours between sessions is recommended. It may take between 1 to 4 exposures before the expected results appear. Schedule for maintenance of tan 20 minutes max once every two weeks.

Ultraviolet lamps to be used in this product "Puretan S+" / "Wolff Bellarium 'S'"

WARNING: before servicing this equipment first remove the power supply cord.

WARNING:

- maximum recommended exposure time is 20 minutes.
- read instructions booklet before using this product.
- use of other positions as well as exposure at less than the minimum use distance may result in over-exposure and is therefore not recommended.

Use protective eyewear type Intraxco Gironde 12, 3831 AB LEUSDEN, The Netherlands, Cat. No. 5653/1S color green, whenever the product is energized.

Minimum use distance: Sunroof 0.038 mtr (1.5")

This product is in conformity with performance standards for sunlamp products under 21 CFR part 1040.

MANUFACTURER: CURRENT: 18 AMP 2800 WATT

ASTERISK, INC. VOLTAGE: 220 AC

4113 LINDBERG DR. SERIAL NO. 10351
DALLAS, TX 75244

PURETAN, INC. MANUFACTURED: July, 1991

4113 LINDBERG DR. MODEL: ST. CROIX 26- Sunroof
DALLAS, TX 75244

UV-A SOURCE: Puretan "S+"

MANUFACTURER: CURRENT: 18 AMP 2800 WATT

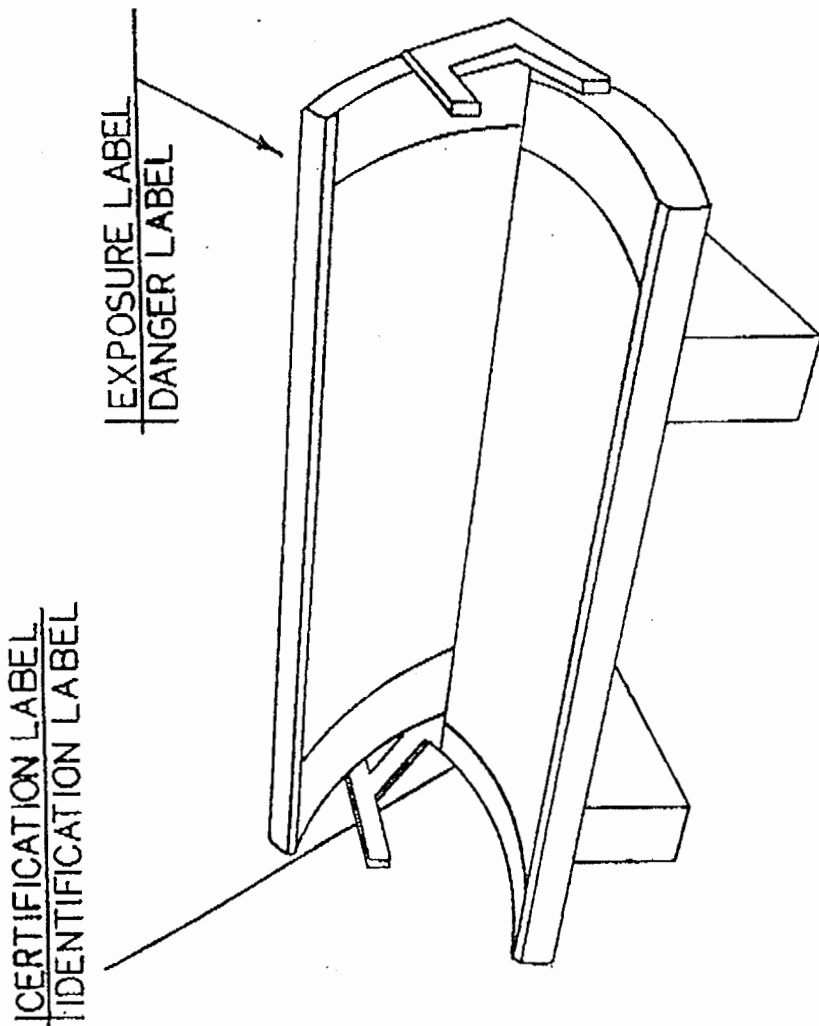
ASTERISK, INC. VOLTAGE: 220 AC

4113 LINDBERG DR. SERIAL NO. 10351
DALLAS, TX 75244

PURETAN, INC. MANUFACTURED: July, 1991

4113 LINDBERG DR. MODEL: ST. CROIX 28- Sunbed
DALLAS, TX 75244

UV-A SOURCE: Bellarium "S"



ST. CROIX 26

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Congratulations! You are the owner of the finest tanning equipment on the market. Be assured that the St. Croix 26 by puretan is manufactured with care using the best materials, components and craftsmanship possible.

In order to receive maximum benefit from your St. Croix 26 sun system please read and understand this manual thoroughly.

The sun

The sun is the source of all energy on earth. It provides us with light which enables us to see and make plants grow. It emits infrared rays which we experience as warmth. A third form of solar energy is less noticeable, but equally important for our well being; ultraviolet radiation. This electro magnetic radiation is divided into three bands:

long wave (uv-a)	380-215 nm
medium wave (uv-b)	320-280 nm
short wave (uv-c)	280-180 nm

Radiation in the short wave band provides a strong germicidal effect and lamps emitting uv-c are used for air and liquid disinfection. Though the sun emits uv-c it is filtered out by the earth's ozone layer and therefore does not reach the earth. You will find no uv-c radiation emitted by your St. Croix 26 sun system. puretan tanning products use only ultraviolet radiation from the uv-b and uv-a regions for the cosmetic tanning process.

The process of tanning

The immediate tanning that occurs with exposure to ultraviolet radiation of wavelengths longer than 300 nm and extending into the visible blue region is the darkening of existing melanin. This melanin is formed in the skin under the influence of uv-b. This melanin moves through the cells at the surface of the skin, and there changes into pigment. The tan produced in this way is called "indirect tanning". Tanning under uv-b starts slowly, but the overall time to get a deep tan is shorter than with uv-a. With uv-b the skin goes through a stage of reddening called "sunburn" or erythema. Uv-a causes direct tanning. Direct tanning starts immediately but takes longer to obtain an attractive tan. The lamps in your St. Croix 26 use a combination of uv-b and uv-a in the exact proportions, based upon recommended exposure time, to give your skin the attractive, bronze tone you desire in a short period of time.

Protecting the eyes

Ultraviolet radiation in the uv-b and uv-a regions may cause eye damage. puretan therefore provides protective eyewear with each piece of tanning equipment and recommends their use during each tanning session. Use protective eyewear type Interexco Gironde 12, 3831 AB LEUDSEN, Cat. No. 3653/1S color green, or other quality eyewear assessed by the Department of Health and Human Services (F.D.A.) whenever the product is energized.

Exposure time and schedules

Control of exposure times is provided by means of a timer incorporated in the equipment. The maximum recommended exposure time of a tanning session is 20 minutes. During this time the use of the protective eyewear provided with your St. Croix 26 is recommended. Following the recommended exposure times at the end of this section should produce results within one to four sessions.

Caution

The length of exposure in new equipment or in equipment recently refitted with new lamps should be reduced by 20% to limit the possibility of erythema. This reduction should remain in effect for a minimum of 50 hours from the time of installation.

Minimum use distances

The recommended exposure position for the St. Croix 26 is lying on the contoured acrylic surface of the sunbed, and under the acrylic surface with the sunroof in the closed position. The minimum use distance is limited by the acrylic surface of the sun bed and may be no less than 1.5" from the acrylic on the sunroof as set forth by the Department of Health and Human Services (F.D.A.)

Exposure times for lamp types: puretan "S+", or Wolff Bellarium "S"*

WEEK	1	1	1	2	2	2	3	3	3	4	4	4
SESSIONS	1	2	3	1	2	3	1	2	3	1	2	3
MIN. PER DAY	3	3	5	5	7	7	10	10	12	15	18	20

A spacing of 48 hours between sessions is recommended. It may take between 1 to 4 exposures before the expected results appear.

*Trademark of Wolff Systems Technology

Cleaning the sunbed and sunroof

After each session is completed, spray the acrylic surface with puretan disinfectant anti-fungal cleanser made specially for tanning products. Do not use conventional cleaners containing alcohol, ammonia or astringents. Do not wipe acrylic surfaces with a dry cloth as the static charge formed will attract dust.

Caution

Always disconnect electricity before cleaning internally. Do not use excessive amounts of water, abrasive cleaners, or cleaners with warning labels regarding reactions to contact with the skin. Do not use products containing alcohol, ammonia or astringents.

Repairs and recommended replacement parts

puretan, inc. or your puretan distributor is capable of providing prompt and up to the minute service recommendations should you equipment require exceptional maintenance.

Recommended parts replacements

It is recommended that parts such as timers, protective eyewear and lamps be replaced with factory supplied parts obtainable through puretan, inc., 4113 Lindberg Dr., Dallas, Texas, 75244 (1-800-338-8267) or your puretan distributor or dealer.

Only factory approved parts when installed as instructed insure continued compliance with F.D.A. and U.L. standards.

Warning

The St. Croix 26 is designed for use by only one person at a time. Therefore only one pair of protective eyewear is provided.

Assembly and Operation

Each puretan St. Croix 26 sun system is preassembled and tested at the factory before packaging to ensure trouble free operation. Please note that the label on each carton includes a serial number. Make certain when assembling the sun system that all of the serial numbers match.

Carefully remove sunbed unit from the carton marked "sunbed", and lay it on carpet or similar surface (to prevent scratching) with the acrylic side down (see figure 1).

Remove the power bases from their boxes (marked "power base"), and slide the component drawers out after removing the four holding screws on each face plate.

Locate the eight (8) machine screws and lock washers provided and attach the legs as shown in figure 1. When the legs are securely fastened, turn the unit over so that the acrylic side is up and the unit is standing on its legs.

Attach the roller arms to the sunbed unit (grooved side toward the acrylic) with the four 3/8" x 2 3/4" allen cap bolts and black flat washers provided (see figure 2). Your St. Croix 26 sun system is a precision piece of equipment, and the tolerances are very close. Therefore, be certain that when tightening the bolts, you alternate two or three turns on each bolt position in order that the arm comes in contact with the end of the sunbed uniformly. Before installing the sunroof, make the following observations of the roller arms. Note that the groove which is approximately vertical to the floor on the rear of the arm is open at the bottom end. The groove which is horizontal at the top of the arm, is open at the top rear.

Carefully remove the sunroof from the carton marked "sunroof". The following exercise will require two people, even though the sunroof is relatively light weight. Hold the sunroof in a vertical position, (see Figure 3) and simultaneously insert the rear rollers (A) into the rear vertical groove (1) through the opening at the bottom of the arm. Still holding the sunroof, lift upward evenly (rear rollers will be rolling upward in rear groove) until center rollers are higher than the top of the roller arm. Tilt unit forward, and simultaneously insert center rollers (B) in horizontal groove through the opening (2) in the top of the arm, and pull sunroof forward, as closing it. The sunroof should now roll in the grooves, and easily open and close.

Insert the component drawers into the leg housings. Slide the drawer with the timer and hour meter into the right leg housing, and the drawer with the plain face plate into the left leg housing.

Locate the cable on the rear panel of the sunroof and insert the connector into the receptacle on the right power base (see figure 4, "B"). Do not force. There are guides on both components to ensure they are connected correctly. When the connection is made, slide the sleeve nut over the threads on the receptacle and hand tighten carefully...do not force. The nut will turn easily when properly aligned. Locate the cable on the rear panel of the sunbed and carefully repeat the above, connecting the sunbed to the left power base (see figure 4, "A"). Insert the plug on the umbilical cord located on the right power base (see figure 4, "C") into the receptacle on the left power base (see figure 4, "D").

The power cord from the right power base (figure 4, "E") is to be connected to a dedicated 30 amp "twist lock" wall receptacle. Locate the 1/4" stereo plug packaged separately with the hardware. Insert the plug into the "Jack" on the rear of the right power base (see figure 4, "F"). *This plug is the hook-up for a remote control monitor, but also acts as a "key". Your St. Croix 26 is not operational until the plug is inserted in the "Jack". This will enable you to "lock" your sun system in the "off" mode to prevent unauthorized use. Your St. Croix 26 is now ready to test, by turning the timer knob on the face of the right power base clockwise.

CAUTION! It is important that when relocating the sun system, lifting or moving of the sunbed is necessary. Do not, under any circumstance, attempt to lift the system by the rollerarms.

*See instructions on page 8 for remote control installation.

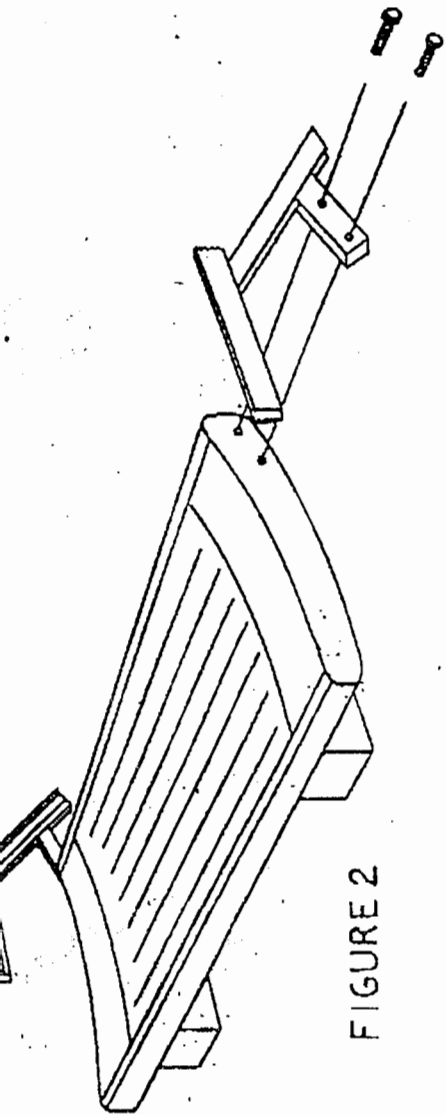


FIGURE 2

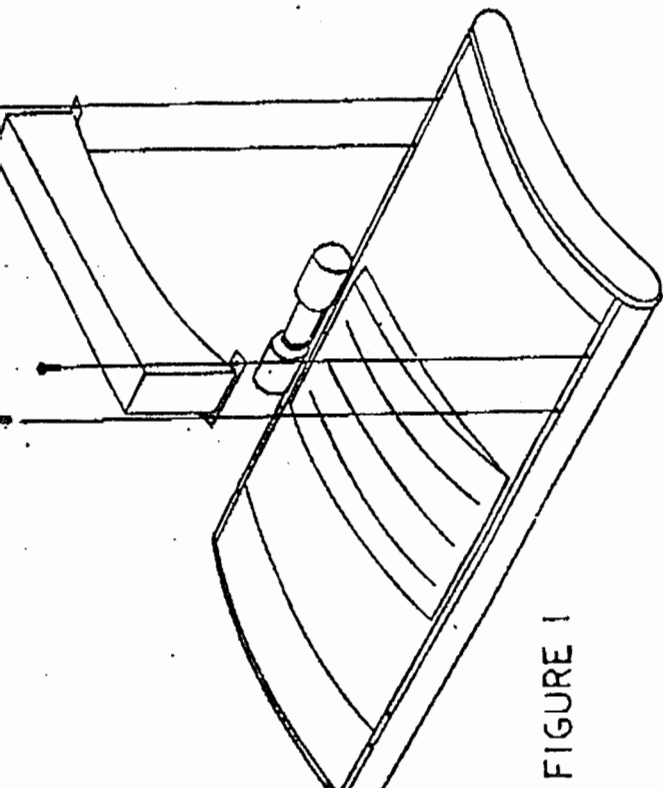
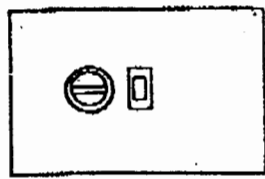


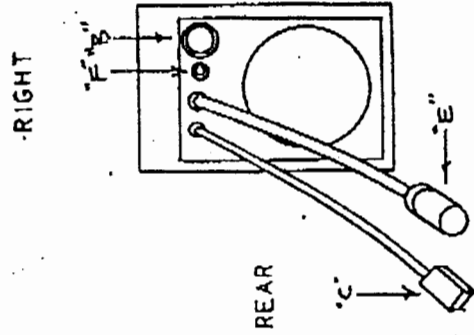
FIGURE 1



FRONT



LEFT



REAR

FIGURE 4

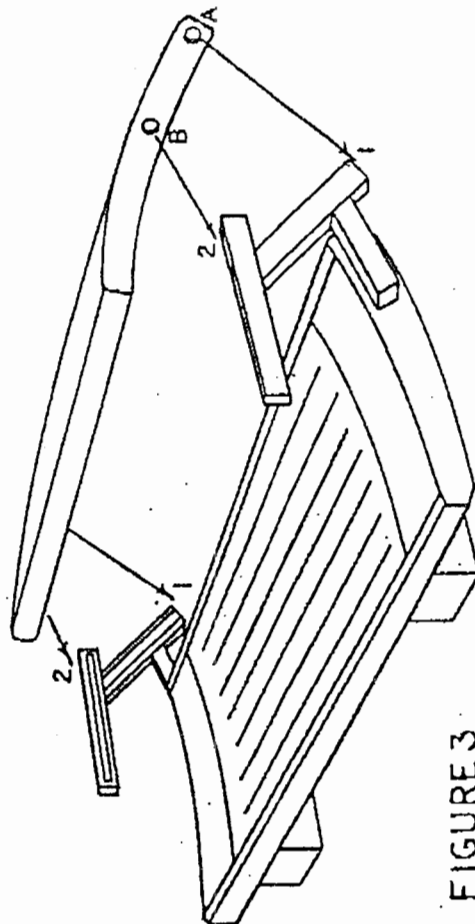


FIGURE 3

Maintenance

It is recommended that every three (3) months due to heat expansion and contraction, wire connections are tested in the power bases. Disconnect power cord from wall receptacle and remove the component drawers as outlined on pages 12 and 13, instructions "a" and "b". Gently pull on wires at connections on ballasts, capacitors, terminal strips, relay and timer with a "needle nose" pliers. Test and tighten any loose connection screws with a small screwdriver.

Removing Acrylic Shield

Disconnect power cord from wall receptacle. To remove the acrylic shield for cleaning or lamp and starter replacement, follow these easy steps. Turn the two eccentric fittings 180 degrees (with the 1/4" allen wrench included in your hardware package) from the "locked" to the "remove" position (see figure 5). The acrylic will then be free for access to your lamps and starters. To replace, turn the eccentric fittings to the "install" position, and insert the edge of the shield (without the metal protector strips) in the groove on the opposite side. Push down on the center line of the shield with both hands lined up with the eccentric fittings, one end at a time, and the shield will snap into position. Return the eccentric fitting to the "locked" position with the 1/4" allen wrench.

Lamp Replacement

Disconnect power cord from wall receptacle. Carefully remove the acrylic shield as described above. Next, remove the reflective end covers by carefully pulling the ends out of the slots in which they are installed. The end covers are made from a very thin material by design, so that they are pliable for easy removal. Be careful not to bend the metal to the point that it "creases". The lamps and starters are now exposed for replacement or cleaning. Before the removal of a lamp, please make the following observation of the lamp holders. The lampholders on the left side of the sunbed (as you stand in front of the sun system), have spring loaded telescopic sockets, and the lampholders on the right are stationary. Please note that on the sunroof, just the opposite is true. To remove a lamp, carefully hold the lamp with both hands, and press toward the spring loaded lampholder. When the spring loaded socket recedes and the tip on the opposite end of the lamp clears the stationary lampholder, pull up and remove.

Starter Replacement

The starters are located behind the row of stationary lampholders; to the far right side on the sunbed and to the far left on the sunroof. To remove a starter from its holder, carefully twist counter-clockwise until the "click" is felt and remove. To reinstall, insert the connectors into the largest opening on the holder, and twist clockwise until locked in place.

Installing Remote Control

To install your puretan remote control timer to the St.Croix 26, proceed with the following steps.

Disconnect power cord from wall receptacle. Remove the stereo jack "plug", which was discussed in the power base section of "assembly", from the rear side of the right power base. Unscrew the case, (see figure 6) and remove the "jumper wire" which connects terminals #2 and #3. Insert the three conductor wire from the puretan remote monitor into the hole in the rear of the stereo plug casing and pull through. A three lead, eighteen (18) to twenty four (24) guage should be used. The most common application is thermostat wire as less than one half (1/2) amp is applied. Attach the wires to the applicable terminals as illustrated in figures 7 and 8 depending upon the remote monitor you are using. Be certain that the small terminal screws are tight, and screw the case onto the plug.

Insert the "plug" into the "jack" on the rear of the right power base, and the St.Croix 26 is now operational from a remote location.

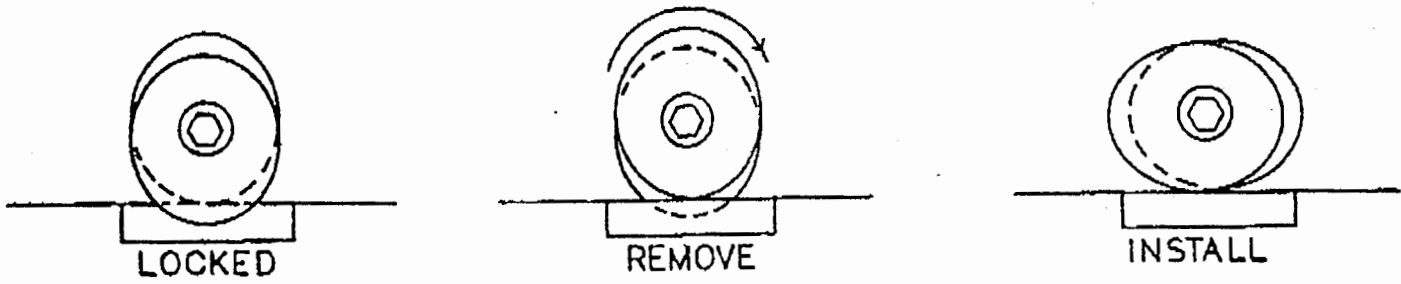


FIGURE 5

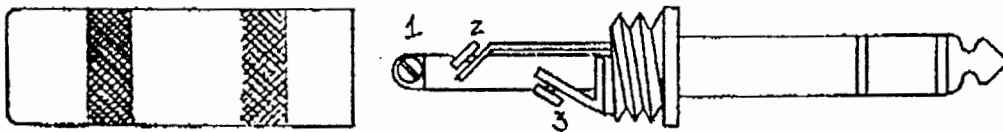


FIGURE 6

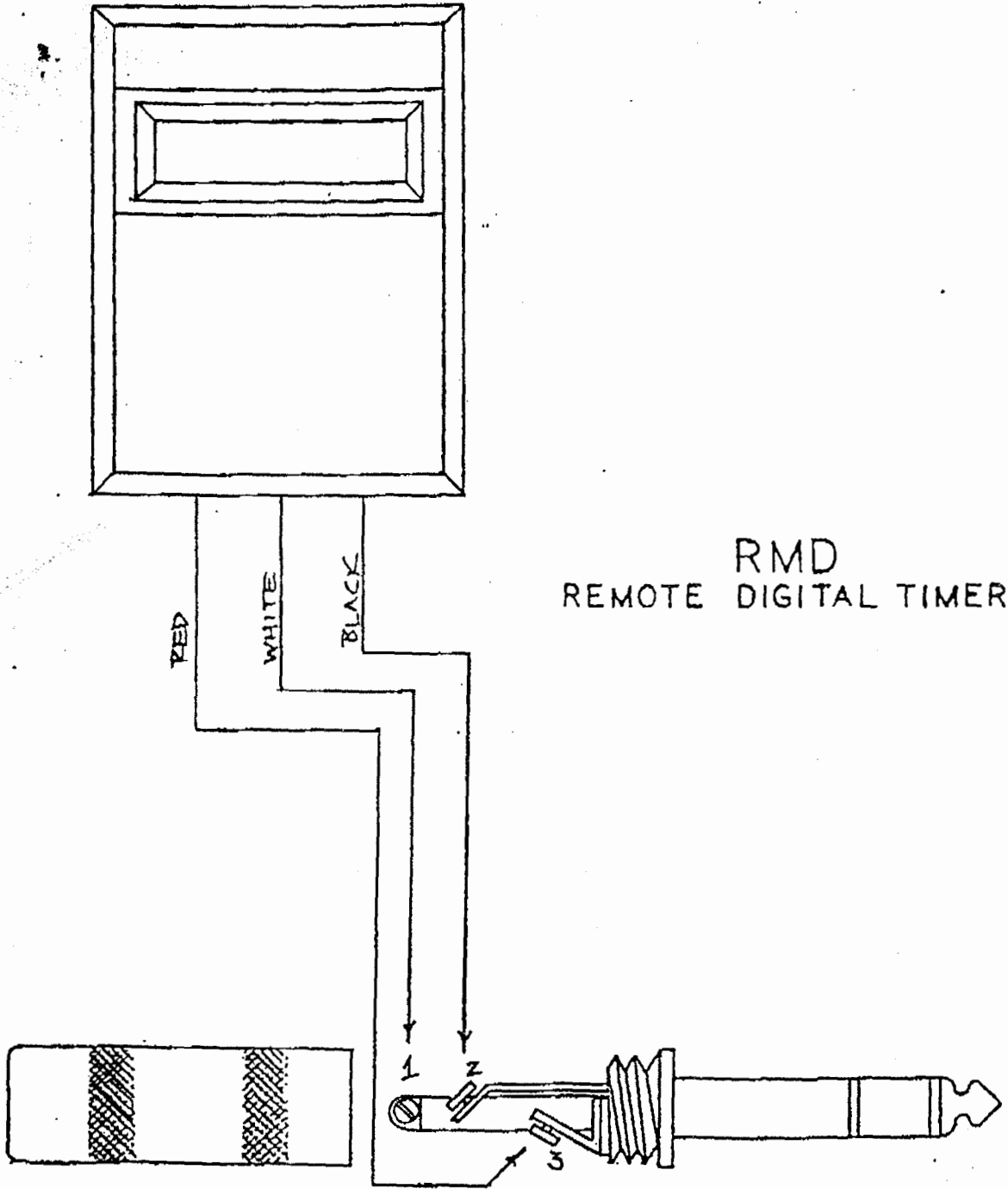
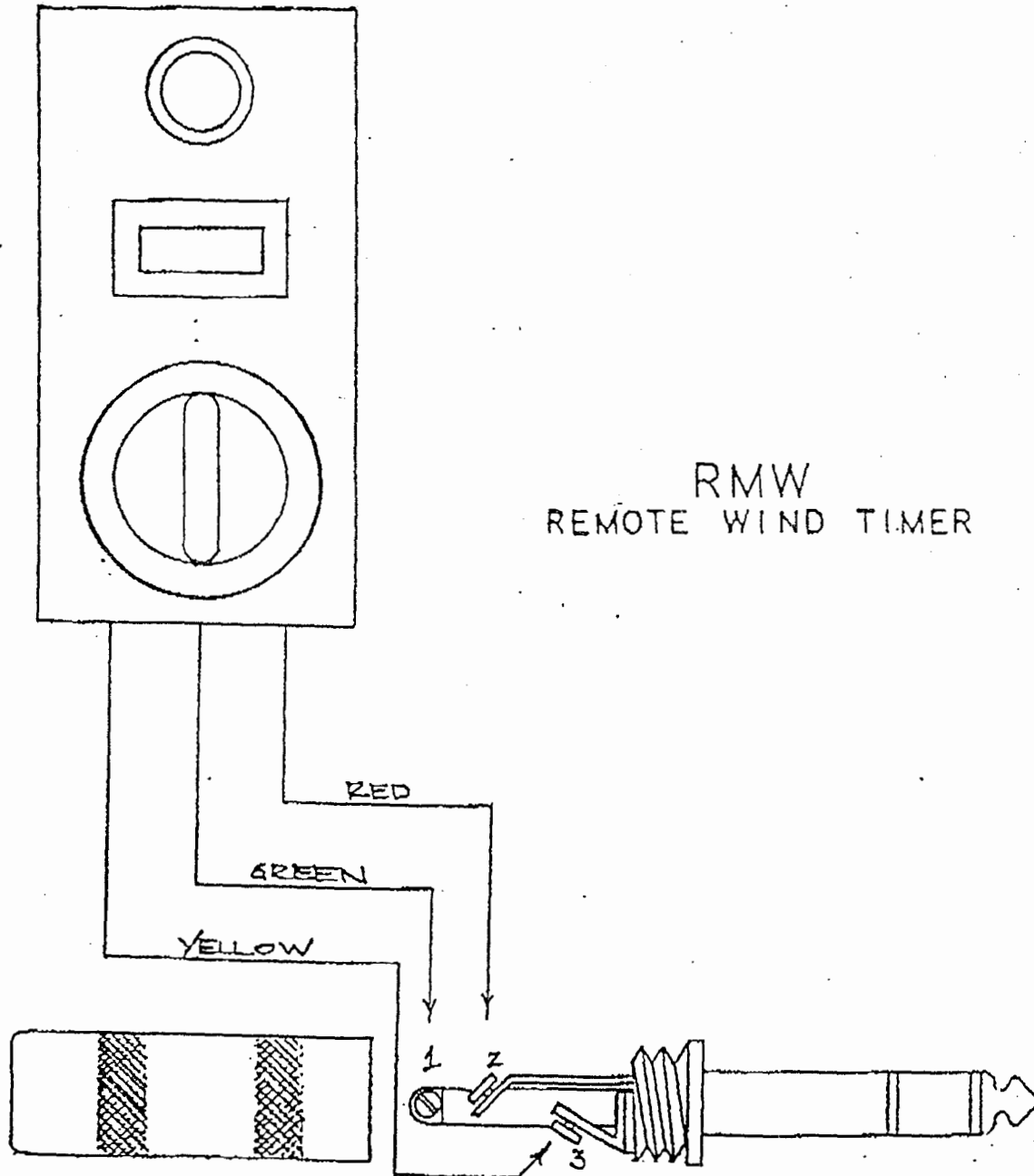


FIGURE 7



RMW
REMOTE WIND TIMER

FIGURE 8

Trouble shooting

Sunsystem will not operate:

1. Is power cord connected to wall receptacle (figure 4, "E")?
2. Is stereo plug inserted in jack receptacle (figure 4, "F")?
3. Is timer in operational position?
4. Is circuit breaker "on"? Is there proper voltage to wall receptacle?
5. Are cables connected to sockets "A" and "B" on power bases (figure 4)?
6. Is umbilical cord connected to socket on opposite power base (figure 4, "C" and "D")?
7. If "yes" to all of the above, call puretan, inc. technical support.

Any lamps not working: Make note which lamps will not light (see figure 9, "A"). Disconnect power cord from wall receptacle.

1. Switch cables "A" and "B" on power bases.

a. Are the same lamps out as before? If "yes" continue on to "b.", if "no" go to #2.

b. Disconnect cables "A" and "B" from power bases and examine connector "pins" at end of cable. If damaged, consult puretan, inc. technical support. If "pins" appear to be undamaged, go on to "c".

c. Remove acrylic shield and check connections to lampholders and starter holders for loose wires by gently pulling on each connection where inserted. Also check for burned ends or physical damage. If no loose wires or damage is detected, go on to "d".

d. Remove (one at a time) starter for unlit lamp. Replace with new starter, or a starter next to a lamp which is lighting. Test by activating system. If lamp still does not light, replace lamp with one from a position which is lighting. If lamp lights, discard defective starter/and or lamp and repeat this step for any other lamp which will not light. If any lamps still will not light, consult puretan, inc. technical support.

2. If different lamps are not lighting, the problem is in the power bases.

a. Disconnect power cord "E" from wall receptacle, umbilical cord "C", and cable connections "A" and "B".

b. Remove small screws and slide component drawers forward until they clear the housings, and reconnect umbilical cord "C" and cables "A" (from sunroof to left power base) and "B" (from sunbed to right power base).

c. One at a time check corresponding ballast connections of non-lighting lamps by gently pulling on wire where it inserts into plastic connector (see corresponding number sequence, figure 9, "B"). If any wires are loose, push into connector and test. If no loose wires are detected, check to see if the ballast for a lamp which will not light has a corresponding capacitor connection. Note that the capacitors shown on figure 9, "B" have three or four numbers (i.e. 1,5,6,10 - 2,7,11 - etc.). If, for example, the number 3 or 8 lamp is not lighting, check the wire connections at the capacitor marked 3,8,12. If no loose wires are detected, install a "Jumper" wire between the two connections on the capacitor cap and retest. If the lamp lights, replace the capacitor. Make certain to insert the wires in exactly the same terminals. If the lamp still does not light, remove the jumper wire and go on to "d".

d. One at a time replace corresponding ballast of non-lighting lamps. Start by inserting a small screwdriver in the slot directly above the wire, push down and simultaneously pull wire out of connector. Remove the two hold down screws at either end of ballast and replace. To reconnect wires, gently push into appropriate corresponding position in ballast connector. Test the system. If lamp(s) still will not light, consult puretan, inc. technical support.

Sun system will not terminate operation

1. Remove plug from stereo jack (figure 4, "F") on rear of right power base. If system discontinues operation, go to 2. If system continues to operate, disconnect power cord from wall receptacle. Remove component drawers from housings as described on pages 12 and 13, instructions 2 "a" and "b". Locate relay (figure 9, "B") and replace by first removing the two retainer screws. Change connectors at each terminal separately and install directly to replacement relay's corresponding terminals. It is important to reconnect the connectors to exactly the same terminals. Re-install relay and test. If sun system still operates improperly, consult puretan, inc. technical support.

2. Disconnect power cord from wall receptacle. Remove component drawers from housings (see above). Locate timer (figure 9, "B") and replace by first removing the plastic knob and two retaining screws. Pull connectors from each terminal separately and install directly to replacement timer's corresponding terminals. It is important to reconnect the connectors to exactly the same terminals. Re-install timer and test. If sun system still operates improperly, consult puretan, inc. technical support.

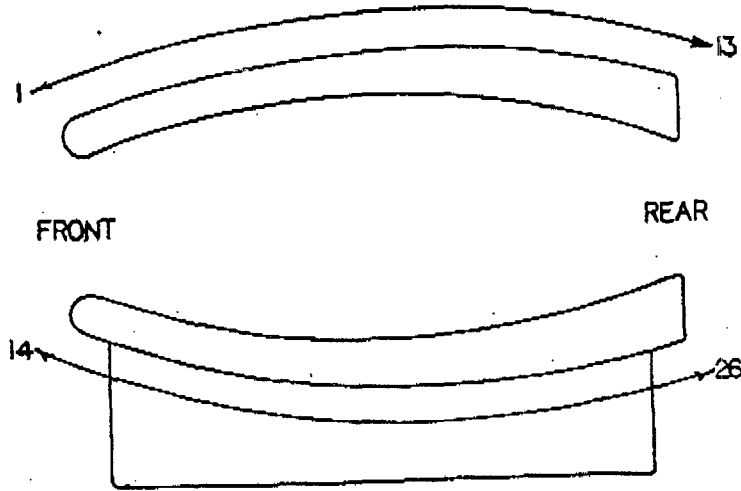


FIGURE 9A

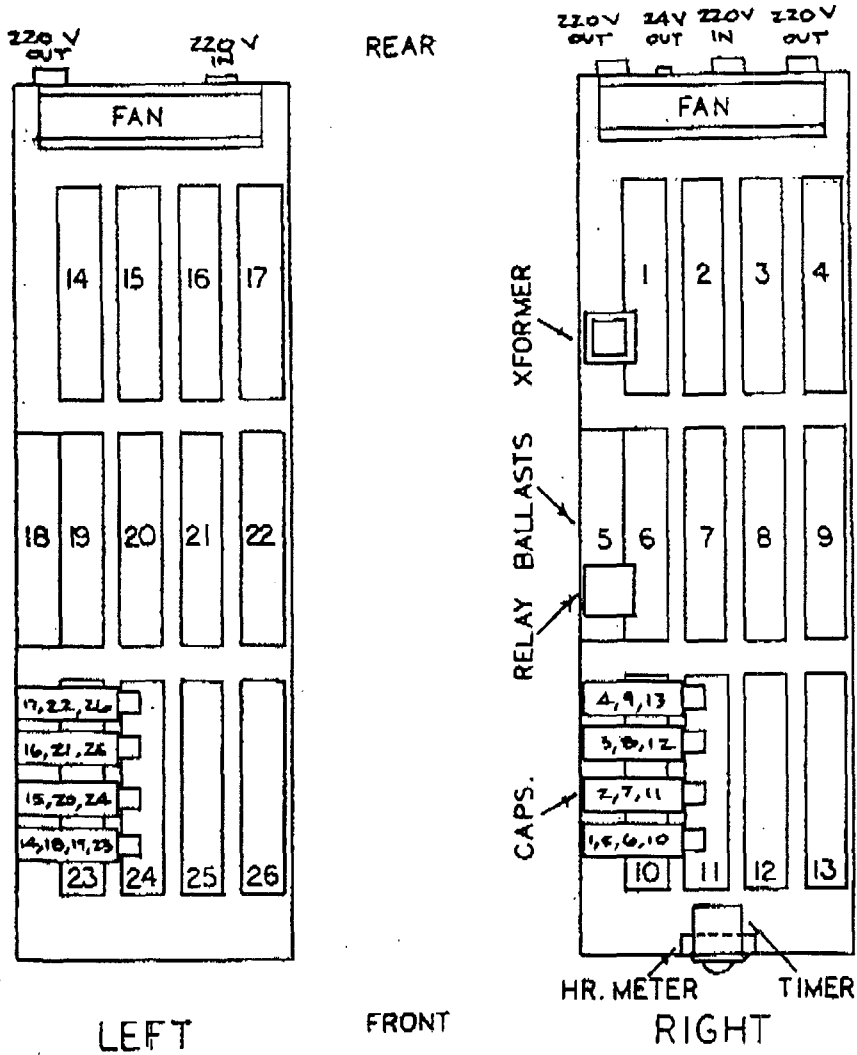
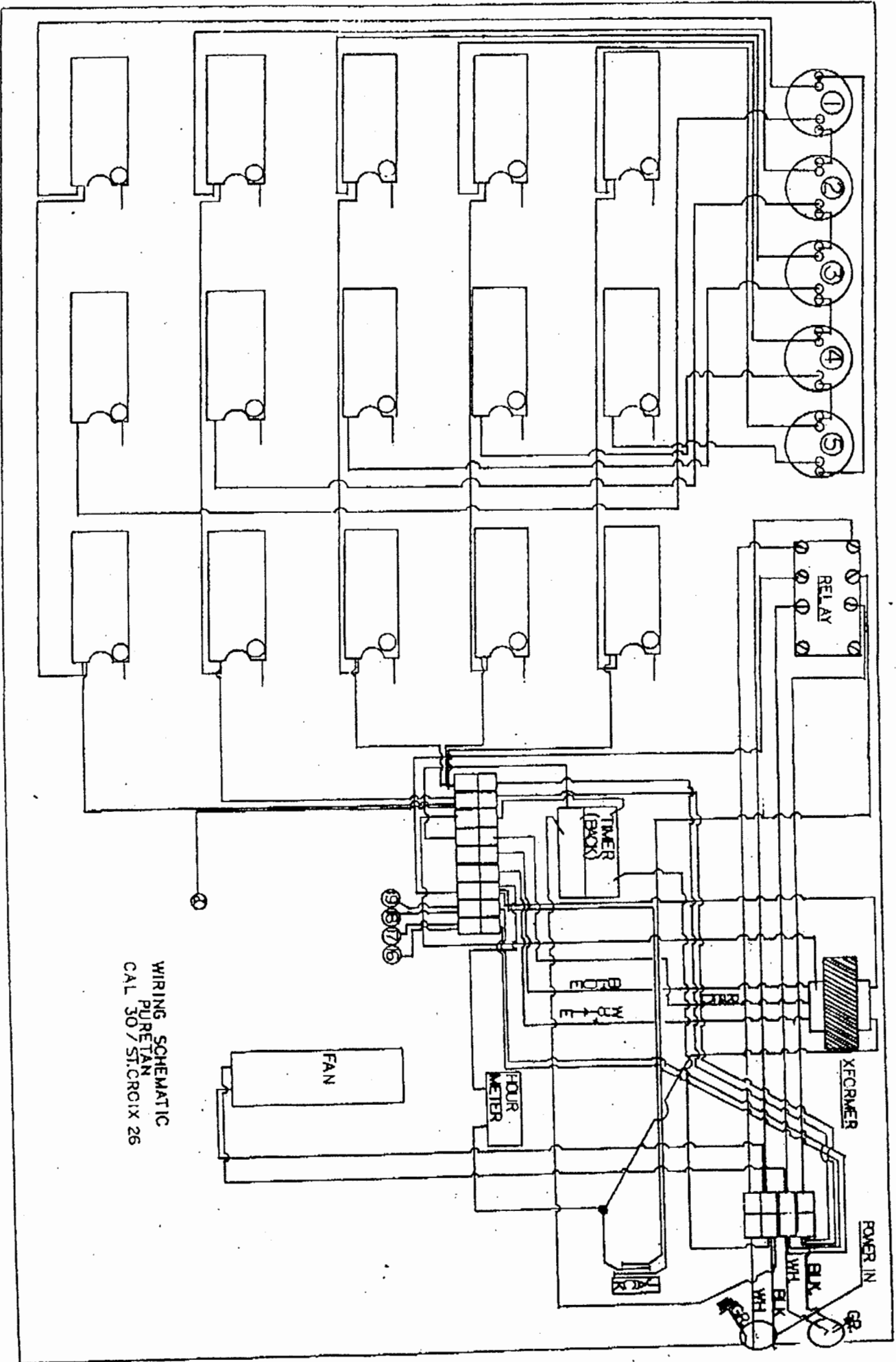
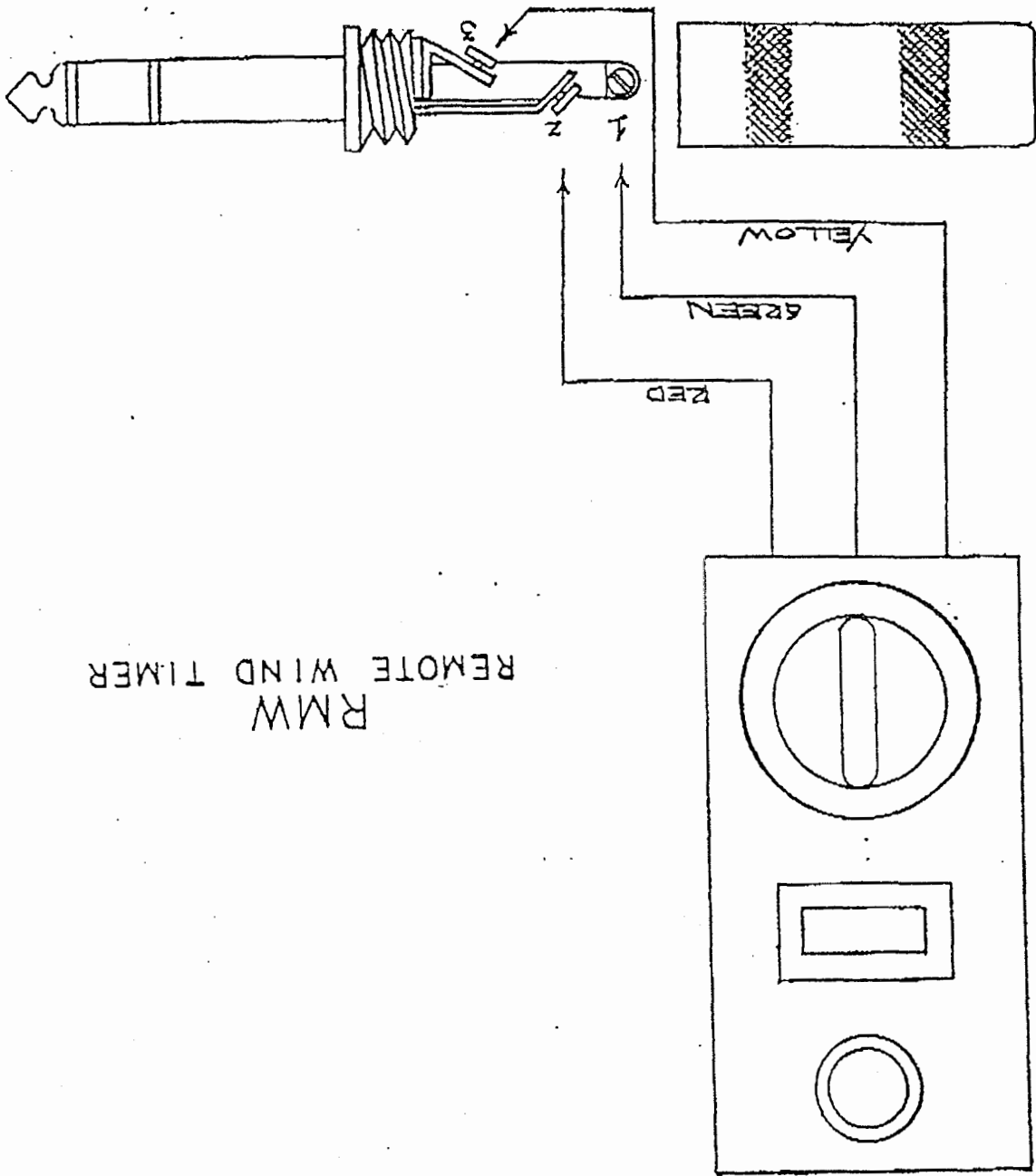


FIGURE 9B



WIRING SCHEMATIC
PURETAN
CAL 30 / ST.CRCIX 26

FIGURE 8



RMW
REMOTE WIND TIMER