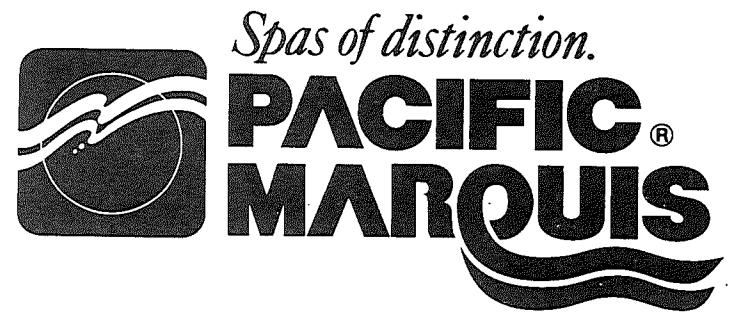




MARQUIS CORP. 596 Hoffman Rd. Independence, Oregon 97351 (503) 838-0888

SPA OWNERS MANUAL

**DUAL PUMP 240V AND
CONVERTIBLE 120/240V
SUPPORT SYSTEMS FOR
PACIFIC MARQUIS
PORTABLES**

1988/89

THIS IS AN IMPORTANT SAFETY DOCUMENT.

- Keep it in a safe place.
- Pass it on to any new owner.
- If lost, contact your local Pacific Marquis dealer or write to Pacific Marquis and new copy will be provided at no-charge.



This symbol on the product's nameplate
means it is Listed by
UNDERWRITERS LABORATORIES, INC.

SAVE THESE INSTRUCTIONS

Please take a few minutes to read this manual. A thorough knowledge of the basic safety precautions and proper maintenance procedures will provide years of safe and pleasant enjoyment of your Pacific Marquis Spa.

(It should also be noted that in some cases, failure to follow these instructions may result in damage that will not be covered by your warranty or may void the warranty entirely.)

SERIAL NUMBER LOCATION

On Pacific Marquis spas, the serial number is engraved directly above the filter canister area (see diagram). On those models which are listed by Underwriters Laboratories (U.L.), you will also find the serial number engraved on the foil tag attached in the equipment bay.

PERMANENT SPA INSTALLATIONS

Permanent spa installations require special considerations and should be carefully planned with the help of your Pacific Marquis dealer.

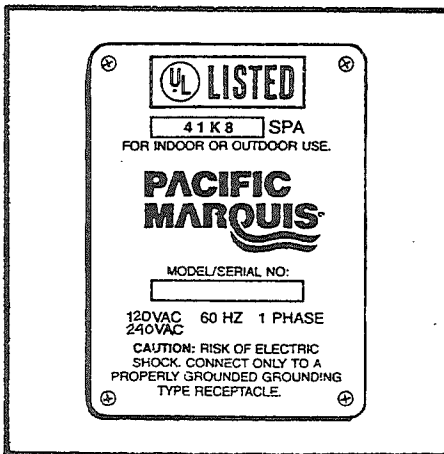
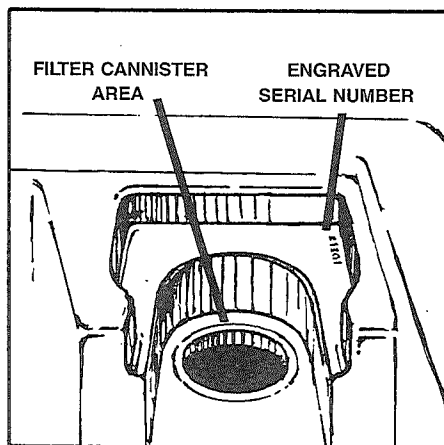
Please fill out for future reference.

PACIFIC MARQUIS SPA MODEL _____

SERIAL NUMBER _____

CAPACITY (GALLONS) _____

This spa is designed and intended for residential use only and should not be used in a commercial, public or semi-public installation.



Listed by
the International
Association of
Plumbing and
Mechanical Officials

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IMPORTANT SAFETY INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed including the following:

1. READ AND FOLLOW ALL INSTRUCTIONS.

2. DANGER – RISK OF ELECTRICAL SHOCK! Install at least five feet from all metal surfaces.

3. DANGER – Risk of electrical shock. Do not permit any electrical appliance, such as a light, telephone, radio, or T.V. within 5' (1.52 M) of a spa or hot tub.

4. DANGER – To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

WARNING – RISK OF CHILD DROWNING. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use a spa or hot tub unless they are supervised at all times.

5. DANGER – To reduce the risk of injury, do not remove suction cover or grate.

6. TO REDUCE THE RISK OF INJURY: The following spa use rules are most important. Using your spa properly

and safely will give you countless hours of enjoyment and pleasure. But, just as with many products today, misuse can be extremely harmful. Protect yourself, your family and your guests by following the safety rules listed below:

A. Do not drink alcoholic beverages before or during spa use. One of the effects of alcohol is slowed reflexes and it can make people drowsy. Jetted hot water also helps induce muscle relaxation. The two together could induce sleep and this, in turn, could possibly lead to drowning. Because of these facts, it is vitally important that you do NOT allow the mixing of alcoholic beverages with a spa usage.

B. Pregnant women and people under medical care (for such problems as heart disease, diabetes, blood pressure, circulatory problems, or obesity) must consult their physician prior to using the spa. Some medications can induce drowsiness. Never use the spa when taking anticoagulants, antihistamines, vasoconstrictors, vasodilators, stimulants, hypnotics, narcotics or tranquilizers. In all cases, if you are not thoroughly familiar with the medication you are taking, check with your doctor prior to using the spa.

C. Spa water temperatures should be maintained in the 98 to 104° range. An accurate underwater thermometer is a "must". 100° water is generally safe and enjoyable for most adults. However, remaining in 100° water for an extended period will raise your body temperature to this level and you may experience some discomfort. As a general rule, when you raise the temperature of the spa water, you should reduce the amount of time you soak. Twenty minutes is about the limit for 102° water; limit your soaking to 10 minutes above 102°. Never soak in water hotter than 104° because temperatures above this level may raise your body temperature to a level that could cause drowsiness, fainting, hyperthermia or heat stroke. (Symptoms of hyperthermia are: muscle incoordination and cramps, nausea, rapid heartbeat, pale skin and delirium.) Before entering a spa or hot tub, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices may

vary as much as $\pm 3^{\circ}\text{C}$ (5°F). It is always important to check your in-spa thermometer before using your spa and to limit your time in the spa as suggested above. Use 98 to 99° – normal body temperature – for extended periods of soaking.

A WORD ABOUT CHILDREN

As previously explained, soaking in hot water will affect the body's temperature. In small children, the body temperature can increase more quickly than with a full-grown adult. Thus, children are unable to absorb the same amount of heat. Therefore, children's time in the spa should be less than an adult's and children using a spa must be constantly supervised. Children should never be allowed to swim underwater.

A WORD ABOUT PREGNANT WOMEN

Soaking for extended periods in water 102° or higher may effect body temperature to the point that it could affect the fetus. This is especially important during the first 90 days of pregnancy. Spa use at 102° should be limited to no more than 15 minutes. It is strongly suggested that women who are pregnant (or those who are considering becoming pregnant in the near future) check with their doctor on his recommendation for safe spa use.

D. People with infections, skin sores or open wounds should not use the spa. Warm or hot water may serve as a "breeding ground" for some types of bacteria. It is vitally important to keep your spa properly disinfected with chlorine or other equally effective disinfectants.

E. It is recommended that people shower before and after using the spa. Showering before removes deodorants, lotions, perspiration and oils which may clog the filter. Showering after soaking will help remove any bacteria that may be in a spa that is not fully disinfected.

F. NEVER allow children to use the spa without adult supervision.

G. Adults should not use the spa without someone nearby who can be called should anything unexpected occur. As an added precaution, you may want to post emergency phone numbers near your

phone so that they are handy should a need arise.

H. Always use unbreakable containers around the spa; never use glass.

I. Always use caution when entering and exiting the spa. Wet surfaces can be slippery and may cause a fall. Hand rails and non-skid surfaces are recommended.

J. Suction through drains and skimmers can be powerful. Any drain or skimmer with a damaged cover can be dangerous, especially to small children or adults with long hair. Should any part of the body become drawn to a drain or skimmer, turn off the spa immediately. Long hair should be restrained in a bathing cap; never allow long hair to float in the spa. Always replace broken drain outlet cover immediately.

K. Keep electrical appliances, including telephones, away from the spa to avoid a possible shock hazard. Do not try to adjust or touch the spa equipment such as the pump, heater or any other electrical appliance while you are in the spa.

L. Never walk, climb, play or jump on the Energy Cover of your spa. Never swim or play under this cover when it is installed on the spa. Also, do NOT rely on your Energy Cover as a safety cover for children. It is a precautionary measure only and children must be supervised when they are in or around the spa.

M. A fence around your spa with a self-closing and self-latching gate can be the best protection against unauthorized entry and use. If your spa is indoors, lock the door to the room to keep out unauthorized users.

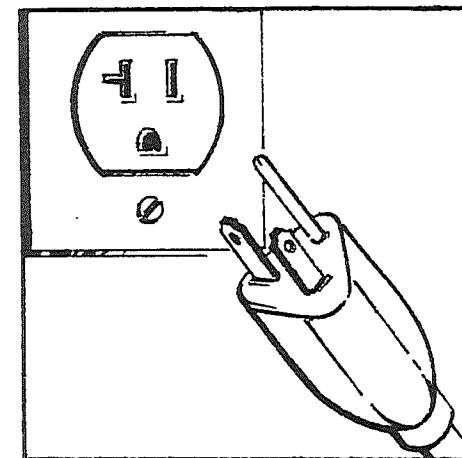
N. Do not use a spa in conjunction with strenuous exercise without consulting your physician and obtaining his approval.

7. Turn OFF all electric power at the main circuit breaker or disconnect panel prior to

performing any service to the spa equipment.

8. It is the responsibility of the spa owner to ensure that all electrical connections are made in accordance with the National Electric Code and any state or local electrical codes in effect at the time of installation. For all permanently connected units the electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with Section 422-20 of the National Electrical Code, ANSI/NFPA 70-1987. The disconnecting means must be readily accessible to the tub occupant but installed at least 5 feet (1.5 m) from tub water.

9. Connect 120V support systems only to a grounded grounding type receptacle. DO NOT, under any circumstances, modify the power cord in any way to fit other than a 20 amp receptacle.

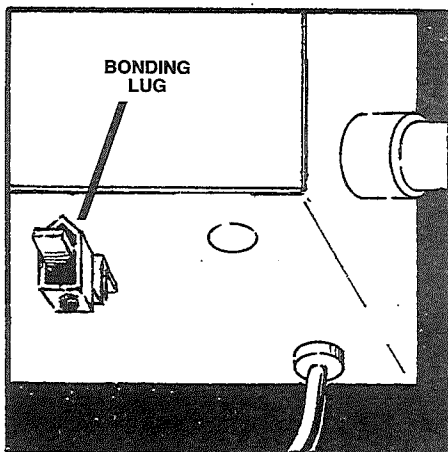


DO NOT BURY THE POWER CORD.

WARNING: To reduce the risk of electric shock, replace damaged cord immediately.

10. A pressure wire connector is provided on the bottom surface of the control box inside the spa to permit connection of a bonding wire between this point and any metal equipment, metal water pipe or conduit within five feet of the spa as needed to comply with local requirements. The bonding wire must be at least a #8 AWG (8.4 mm²)

solid copper wire. This is to reduce the risk of electric shock.



11. Connections should be made with copper conductors only. All conductors, circuit breakers and/or fuses must be sized in accordance to the Total Amperage Load as specified on the electrical control box data label.

12. All 240V support systems require a three wire plus ground electrical service (line 1, line 2, neutral, ground). All 240V connections can be made by removing the front of the electrical control box.

13. The Pacific Marquis support system is provided with a ground fault circuit interruptor (GFCI) located on the front of the electrical control box. The GFCI is a safety device which protects users from exposure to electric shock hazard.

The GFCI must be tested before **each use** of your spa in the following manner:

(A) With the equipment connected to the proper electrical power source and with the circuit breakers on, push the test button: the reset button will pop outward and the equipment will stop operating.

(B) Push the reset button: the reset button should return to its original position.

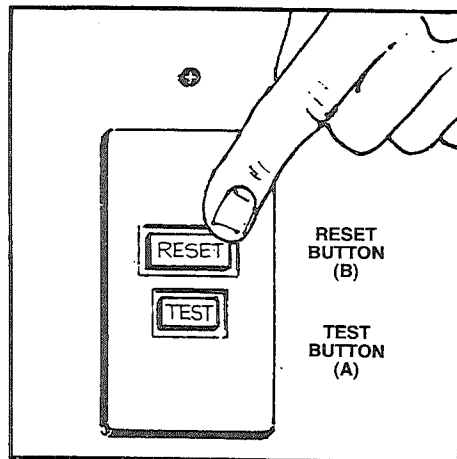
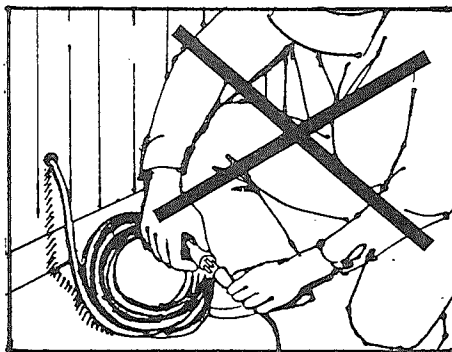
CAUTION: If the GFCI fails to operate in this manner, disconnect the power cord

from the wall receptacle or turn off the circuit breaker at the main electrical panel or disconnect. Failure to operate in this manner means a ground current is flowing indicating the possibility of electric shock. Do NOT reconnect the power until the source of the ground current has been identified and corrected by a qualified service technician.

14. The spa must be installed to provide proper drainage and to keep water out of the electrical equipment components.

The spa must be installed in such a manner as to provide access for servicing all electrical and plumbing components from above or below any decks or floors.

15. Do not use an extension cord. The spa must be placed near enough to the power source to prevent the need for an extension cord.



16. NEVER operate the spa support system when the spa is empty. This could result in severe damage to the heater, pump and spa support components and is a potential fire risk.

CHEMICAL SAFETY

17. Add only one chemical at a time to the spa water. Never mix chemicals or chemical solutions together. Always follow the man-

ufacturer's instructions for dilutions and handling precautions. When diluting, add chemicals to water – not water to chemicals. Avoid skin contact when working with acid. ALWAYS STORE CHEMICALS OUT OF THE REACH OF CHILDREN (#46).

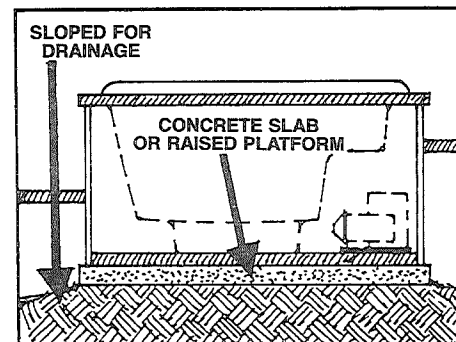
18. SAVE THESE INSTRUCTIONS

INSTALLATION AND USE

LOCATION

19. For your portable spa to function properly and safely, it must be located on a hard, flat, level surface. Inground spas require special installation techniques and should be planned in conjunction with your Pacific Marquis dealer. Improper installation can result in structural damage to the spa and a voiding of your spa warranty. Items to discuss with your dealer include local construction codes, electrical service requirements, accessibility and serviceability of equipment and components, present underground obstructions such as gas, water and telephone lines, safety measures such as fences and locks and visibility of the spa installation from the home, street and neighbors.

You must allow for sufficient water drainage around the spa to help preserve the wood skirt and support structure and to provide adequate drainage of the equipment bay for the components.



Your spa **MUST** be installed to permit access for servicing the equipment above and/or below any decks or floors. Access is es-

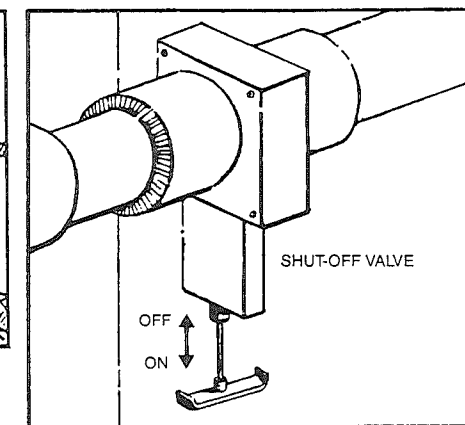
sential and must allow adequate room for service personnel.

Be sure the spa is in the final position **BEFORE** filling with water. Check for power cords, tools or hoses which may be caught underneath the spa.

CAUTION: Never try to move a spa that has not been fully drained. To do so can result in damage to the spa and physical injury to the mover.

SHUT-OFF VALVES

20. Your spa is equipped with at least two SHUT-OFF VALVES that can completely shut off the water flow to the support system for dealer servicing. At times, a new spa or one that has recently been serviced may have the SHUT-OFF VALVES partially closed which can restrict the water flow and hinder jet performance. Be sure the valves are **ALWAYS** fully open with the handles fully extended.



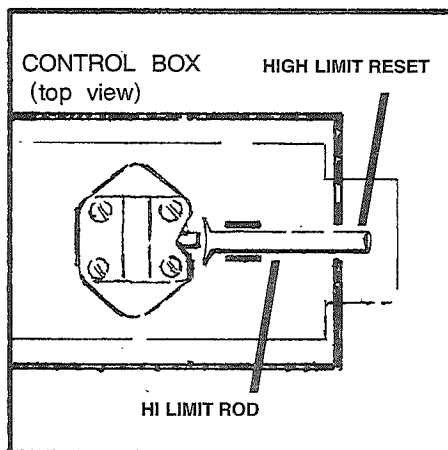
HEATER HIGH-LIMIT SWITCH

21. The high-limit switch will shut the heater and pump off if the temperature within the heater assembly reaches a factory-set non-adjustable limit.

Several conditions could cause the switch to activate: low water level, shut-off valves closed while heater is on, dirty filter, restricted or clogged plumbing lines.

22. To reset the high-limit switch, push the "HIGH-LIMIT" switch button located on the right end of the control box. ▶

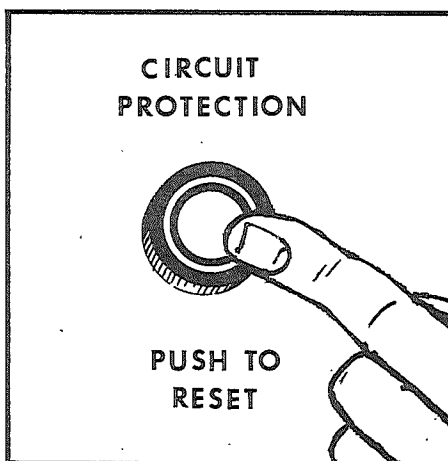
The switch cannot be reset until water temperature within the heater assembly drops to a lower, preset temperature. If the switch trips repeatedly, the support system should not be operated until the problem has been corrected. Please refer to your Pacific Marquis Dealer.



SYSTEM CIRCUIT BREAKER

23. The circuit breaker (breakers #1 and #2 for systems with 2 pumps) located on the right end of the electrical control box, provides protection for the pump motor(s), blower motor (if so equipped) and control circuitry. If an electrical amphere fault occurs within these components, the button on the circuit breaker will pop outward. ▶

To reset, push button in. If the condition repeats, do not use the spa until the problem has been corrected. Please refer to your Pacific Marquis Dealer.



POWER ON/OFF SWITCH

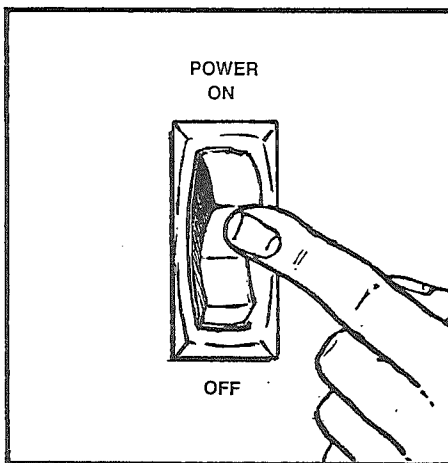
24. The System Switch located on the front of the electrical control box prevents unauthorized use of the spa. ▶

In the ON position, the equipment is controlled by the Spa Side Controls (#34).

In the OFF position, the Spa Side Controls are inoperable. However, the Time Clocks will continue to keep the correct time.

TIME CLOCK OPERATION (General)

25. The time clock helps to assure operating convenience and economy. The spa water must be filtered daily or several times each day to maintain clear water conditions



and proper sanitation levels. The water temperature can be automatically controlled to be ready to use at all times or only at selected times and days. The time clock may be over-ridden at any time without disturbing the time clock setting. ▶

CONTINUOUS OPERATION IS SUGGESTED.

ADJUSTING THE TIME CLOCK

26. Please note that any time the circuit breakers are shut off or the spa power cord is removed from the outlet, the clocks will need to be reset to actual time of day.

HEATING TIME CLOCK

(7-Day Operation)

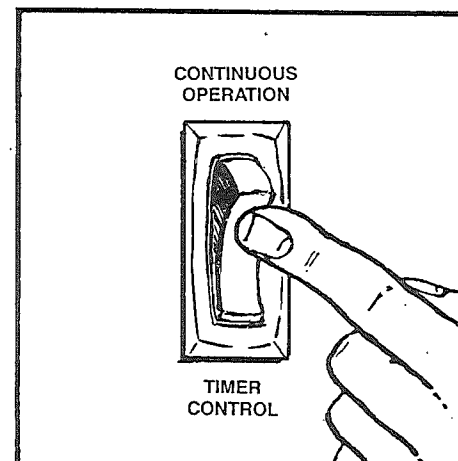
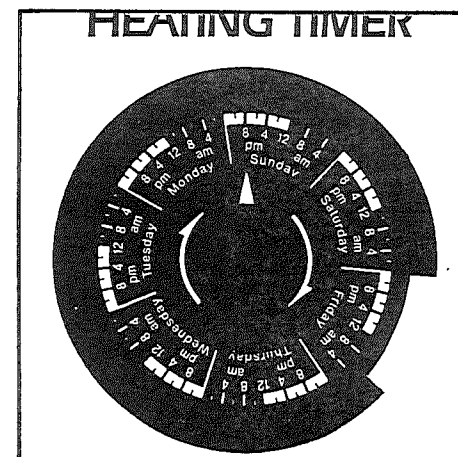
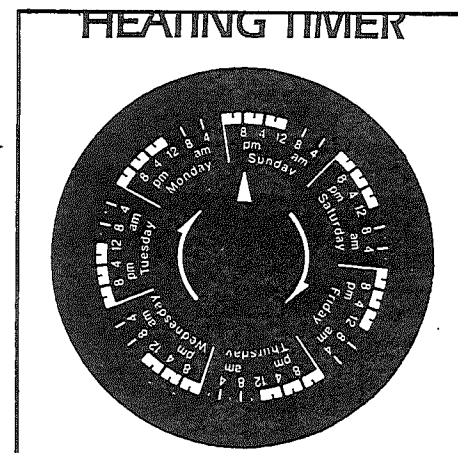
27. CLOCK SET POINT. Rotate outer clock ring clockwise and set correct time of day opposite Set Point arrow.

TIME CLOCK LUGS (Each lug represents a 2-hour period of a selected day of the week.) Push inward toward center of clock to set ON times. The example shows ON at 6:00 a.m. Friday and OFF at MIDNIGHT Friday. To cancel settings, push outward on the lugs. ▶

If the thermostat is calling for heat and the time clock reaches an ON time, the PUMP will start and the HEATER will turn ON. When the water reaches the desired temperature, the thermostat will turn the HEATER OFF and the pump will continue. This cycle will continue during each ON period as determined by the setting of the time clock lugs. Wait a few days and adjust filtration times as necessary to maintain sparkling clear water with a minimum of ON times. **NOTE:** If your spa is equipped with an optional ozone sanitation system it is recommended that the filtering time clock be left in the continuous operation mode (#29).

TIMER CONTROL SWITCH

29. In the TIMER CONTROL position, the time clock has control and will start and stop the heating cycle as determined by the settings of the HEATING TIME CLOCK lugs and the thermostat (#27, 37). ▶



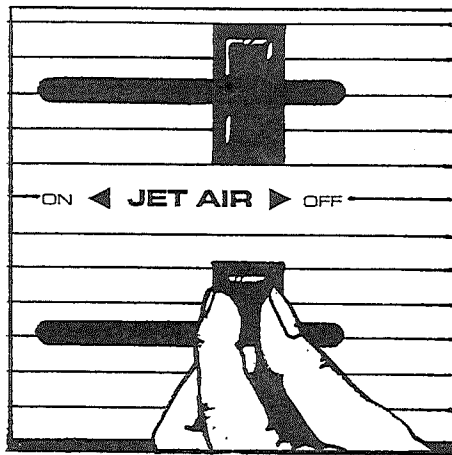
In the continuous operation position, the heating cycle will be continuous, controlled only by the setting of the thermostat. The HEATER will start and stop as required to maintain the desired temperature. This position is ideal for freeze protection. With the thermostat set at the LOW position, the HEATER and PUMP will automatically cycle to maintain a water temperature of approximately 50°F.

The time clock settings are not disturbed and timed cycles will begin again when this switch is returned to TIMER CONTROL.

AIR CONTROL VALVES

30. Your spa is equipped with two air control valves which allow regulation of the water action from the jets during high speed pump operation.

Open the air valves by sliding the levers to the left.



For those spas with dial air controls, the water action can be increased by turning the air control valves counterclockwise.

Because heat loss occurs as air is injected into the water, close the air control valves when the spa is not in use.

NOTE: If your spa is equipped with an optional ozone sanitation system you will have a slight flow of air from several jets even when the air control valves are fully closed. This is a normal sign of the ozone system working. It does not mean that the air control is faulty or leaking.

HYDROJETS

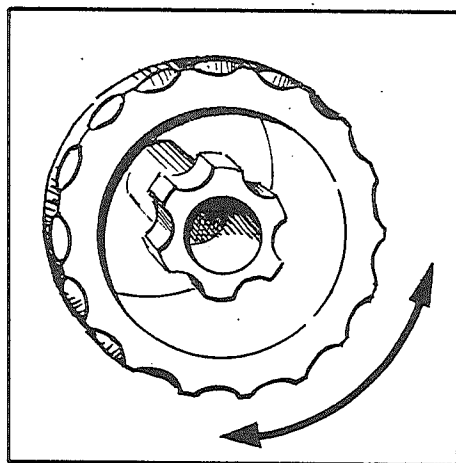
31. Your spa is fitted with directional hydrojets. The jet action can be directed 360° by aiming the swivel ball nozzle.

MINI MESSAGE JETS

32. Your spa is fitted with two mini massage jets. When the high speed pump is in operation the mini massage jet will rotate in a 360° circle.

CYCLO MESSAGE JETS

33. Your spa is also equipped with two cyclo massage jets (except Allure model). The control knob for this jet is located on the jet face. By fully turning the knob all the way in one direction you can concentrate the flow of water from the hydrojets to the cyclo jets. Turning the knob in the opposite direction will return the flow to the hydrojets.



SPA SIDE CONTROLS

34. The SPA SIDE CONTROL places all of your spa's functions within arm's reach. The Power On/Off Switch (#24) must be in the ON position for the SPA SIDE CONTROLS to operate.

PUMP

35. The button marked "PUMP I" controls the two speed pump. Pushing the button either activates the HIGH speed mode for maximum jet action or returns the pump to LOW speed for circulation.

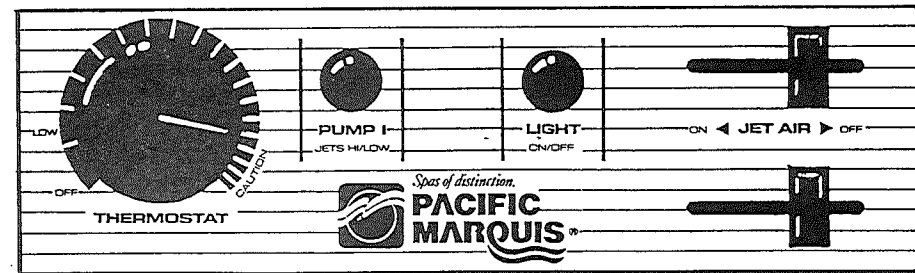
CAUTION: Do not leave pump on high speed when spa is not in use. Over heating of the spa water can result.

TWO PUMP SYSTEM (OPTIONAL)

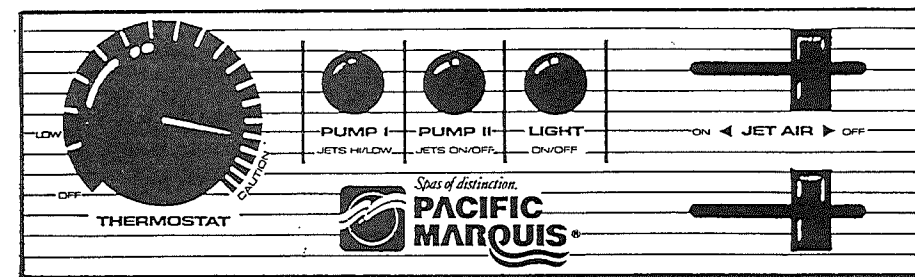
36. The button marked "PUMP II" controls the one speed pump. Pushing the button turns the pump on or off.

CAUTION: Do not leave this pump in operation when spa is not in use.

ONE PUMP SYSTEM



TWO PUMP SYSTEM



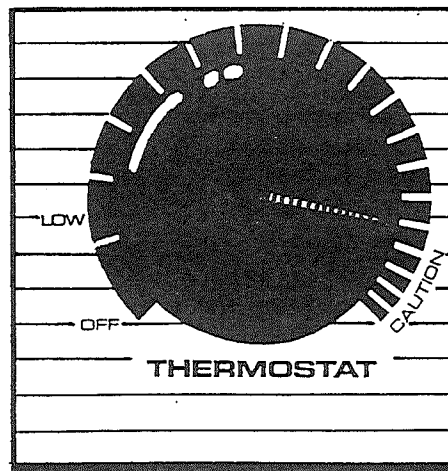
HEATER-THERMOSTAT

37. The heater is controlled by the large thermostat knob located on the left of the spa side control panel. Turn the thermostat clockwise to increase the temperature and

counterclockwise to decrease the temperature.

The length of time it takes the water to reach a desired temperature depends on several factors. Raw water temperature, ambient air temperature, spa size, relative humidity, type and insulative qualities of a cover and constancy of electric power are all factors. Prolonged use of the air blower and hydrojets will have a cooling effect upon the water. **DO NOT EXPECT TO FEEL HOT WATER FROM THE JETS AT INITIAL START-UP.**

CAUTION: The spa should never be operated at temperatures above 104°F. An accurate underwater thermometer is vital in monitoring water temperatures. If the thermostat allows the heater to heat the spa to temperatures greater than 104°F, contact your Pacific Marquis dealer. Refer to IMPORTANT SAFETY INSTRUCTION #6 in the front of this manual for further information about recommended water temperatures.



AIR BLOWER (OPTIONAL)

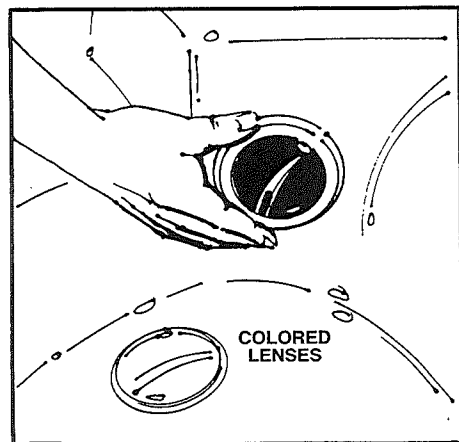
38. The button marked "BLOWER" turns the blower system on or off. The blower should be activated for at least a short period of time during spa use. Also activate blower when adding chemicals. This will allow for circulation and filtration for proper sanitization.

UNDERWATER SPA LIGHT

39. The button marked "light" turns the underwater spa light on or off. The light is located in the footwell.

The low-voltage system produces a bright white light for evening use in the spa and makes entering/exiting the spa safer.

One of two colored lenses may be installed over the white lense housing. These lenses snap on and off the housing and can be installed even when the spa is full.



FILTER CARTRIDGE

40. Your portable spa is equipped with the exclusive Pacific Marquis filtration system. This system includes a floating weir, debris catch basket and top-loading filter cartridge.

Do not operate your spa without a clean filter cartridge in place.

WATER CHEMISTRY GUIDELINES

41. NOTE: If your spa is equipped with an ozone sanitation system, refer to the supple-

mental booklet dealing with the ozone system for complete instructions and chemical guidelines.

When filling the spa with water, use the chemicals in the Pacific Marquis SPA PRO™ Kit to bring the water to a correct chemical balance (#43). **NEGLECT IN MAINTAINING THE CORRECT WATER CHEMISTRY CAN VOID YOUR SPA WARRANTY!**

There are several methods available to sanitize the water in your spa. Pacific Marquis recommends using chlorine, bromine, or ozone. No other oxidizing agents are suggested. Use of other oxidizing agents may damage equipment and void the warranty.

42. CAUTION: It is essential that you shock chlorinate your spa after filling it with water BEFORE you begin to use it. Directions for shock or super chlorination are given on the SPA PRO™ chlorine concentrate container. This shock treatment will give an initial sterilization to your water, kill any algae spores that may be present and oxidize undesirable minerals and organic matter in the raw water.

This treatment must be repeated anytime the spa is refilled or the water has lost its chemical control due to neglect or lack of use.

It is recommended that sodium dichlorocyanurate (DyCloro) or lithium hypochlorite be used for spa use. Calcium hypochlorite is a type of chlorine which is used in swimming pools and it is not recommended for spa usage.

CHEMICAL LEVELS

43. pH levels should be kept between 7.2 and 7.6. Failure to maintain these levels can result in burning of the eyes, skin rashes and other discomforts as well as clogged pipes, staining and equipment damage.

44. Alkalinity should be maintained between 100-150 parts per million (ppm).

45. Chlorine levels should not exceed 3 ppm except during periods of super chlorination (#42). Super chlorination is used only to treat raw water after completely

draining the spa, and after periods of heavy use.

Since water chemistry and hardness varies from region to region, you should contact your Pacific Marquis dealer for advice on how to best treat your water. He has a complete line of SPA PRO™ chemicals to help you get optimum use and enjoyment from your spa.

CHEMICAL SAFETY

46. It is important that you read and follow the safety tips for chemical usage and storage listed here. This valuable information is contained on pages 11 and 12 of the "Sensible Way to Enjoy Your Spa or Hot Tub" issued by the *National Spa and Pool Institute* (NSPI) who have granted us permission to use this information here.

The chemicals needed for your spa or hot tub help make it clean, disinfected and more attractive to use. But remember that these chemicals are potentially dangerous and may present some hazards if not used properly. Carefully follow the manufacturer's instructions for the use and storage of chemicals.

In general, here are some tips for chemical use and storage:

- Before using chemicals, read the labels and directions carefully. Follow label use instructions.
- Keep all chemicals out of the reach of children.

STORAGE

- Chemicals for test kits should be replaced each year.
- Keep the original lids on all chemical containers and make sure the lids are closed tightly when not in use.
- Do not stack different chemicals on top of one another.
- Store your spa or hot tub chemicals in a clean, cool, dry, well-ventilated area, preferably off the floor, to prevent contamination from other materials. Keep them away from chemicals and equipment used for garden and lawn maintenance.

• Keep liquid chemicals away from dry chemicals. Keep apart chemicals which are different forms of oxidizing compounds. Physically separate all different forms of chemicals.

• Do not store your spa or hot tub chemicals where other flammable items may mix with them. For example, a mixture of these chemicals and fertilizer can cause a fire or explosion.

USAGE

- Never mix two chemicals together. Use a clean scoop for each chemical, and avoid combining materials from "old" and "new" containers.
- Test the water in your spa or hot tub with a reliable test kit on a schedule recommended by your spa or hot tub professional. Add the necessary chemicals according to the test results and the manufacturer's instructions. In the hot water environments of spas and hot tubs, disinfectants may rapidly break up and spread out, requiring more frequent water testing. Follow your manufacturer's instructions in this regard. The more people who use the facility, the more frequently you should test the water.
- Do not inhale dust or fumes from any chemicals. If necessary, use proper protective devices for breathing, handling and eye protection. Promptly wash off any residues which get on your skin.
- Never reuse old containers unless specified by the manufacturer.
- If you have any questions regarding safe handling, storage or use of spa or hot tub chemicals, contact the manufacturers.
- Always add the chemicals directly to the spa or hot tub water, either in a suitable feeder, or distributed across the surface of the water or diluted and poured into the water. Follow label use instructions.
- When preparing water solutions for feeder application, pour the chemical slowly into the appropriate amount of water, stirring constantly to provide mixing and dilutions.
- Always add chemicals to water. Never add water to chemicals.

- Never add chemicals to the spa or hot tub water while people are using the facility.
- Carefully clean up any spilled chemicals with large amounts of water, to dilute and wash away the chemicals. Disinfectants and pH adjustment chemicals can usually be sent to the sewer with large quantities of water, since they are intended for use at low levels.
- Wash out empty disinfectant containers before disposing to eliminate danger of fire, explosion or poisoning.

ELECTRICAL REQUIREMENTS

47. Prior to start-up or performing any service to the spa equipment, turn OFF all electric power at the main circuit breaker or disconnect panel.

It is the responsibility of the spa owner to ensure that all electrical connections are made by a qualified electrician in accordance with the National Electric Code and any state and local electric codes in effect at the time of installation.

All connections must be made in accordance with the wiring diagram found on the inside of the control box cover or the wiring diagrams within this manual.

Connections should be made with copper conductors only. All conductors, circuit breakers and/or fuses must be sized in accordance to the Total Amperage Load as specified on the electrical control box data label.

This equipment is designed to operate on 60Hz Alternating Current only at a voltage of 120V or 240V as required.

A pressure wire connector is located on the exterior of the electrical control box. If the installation includes a common bonding grid (reinforced concrete slab, ground plate beneath the spa or any metal water pipe connection), this pressure wire connector should be bonded with at least 8#AWG copper wire to any metal ladder, water pipe or other metal within five feet of the spa.

120 VOLT INSTALLATION

48. Cord connected 120V units must

only be connected to a grounded, grounding type 20 amp receptacle. If a 120V unit is to be "hard wired" rather than use the factory installed cord it requires a two wire plus ground (line 1, neutral, ground) electrical service. Refer to the diagram on the cover.

Note: On 120V installations the heater operates only when the pump is on low speed.

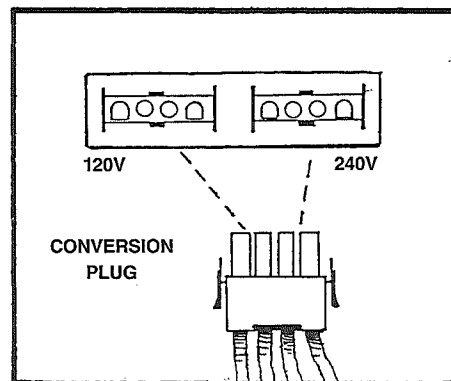
240 VOLT INSTALLATION

49. Units to be operated at 240V must have all connections made by a qualified electrician in accordance with the National Electric Code and any state and local electric codes in effect at the time of installation. All 240V units require a three wire plus ground (line 1, line 2, neutral, ground). Refer to label below the terminal block.

Verify that the unit had been properly converted to 240V usage as per the instructions on 120V to 240V conversions (#50).

CONVERSION FROM 120V TO 240V

CAUTION: Disconnect all electrical power at the main circuit breaker or disconnect panel before attempting conversion.



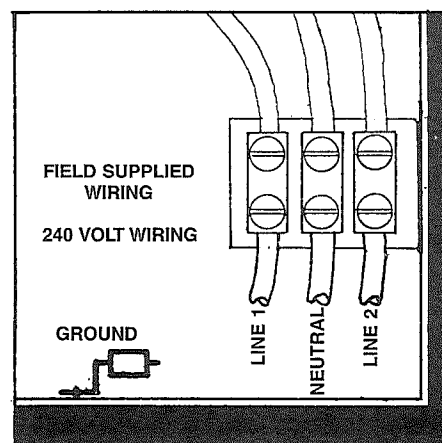
50. To convert 120V units to 240V usage complete the following steps:

- Remove the control box cover from the front of the electrical control box.
- Disconnect the factory supplied 120V cord from the terminal block and remove the cord strain relief grip and the 120V

cord from the control box. Discard the cord.

C. Move the conversion plug to its proper location for 240V service as per the diagram on the control box bottom or that found in this manual.

D. Install properly sized three wire plus ground service wires into the terminal block as per the label below the terminal block or that found in this manual.



E. Check that all wire connections are secure and tight.

STARTING YOUR SPA

51. Make sure power supply is off. On 120V systems the power cord must be unplugged and the power switch on the front of the pack must be in "OFF" position (#24).

On 240V systems the circuit breaker in the residence electrical panel must be off and the power switch on the front of the pack must be in "OFF" position (#24).

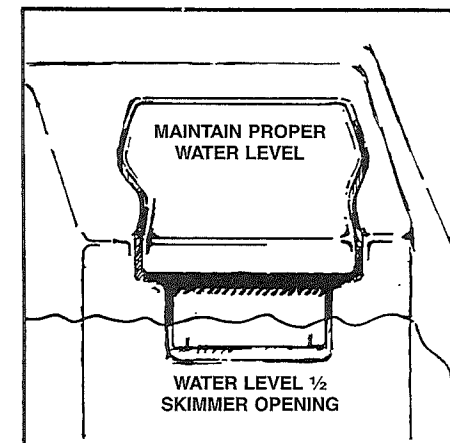
52. Check if properly wired for either 120V or 240V usage (#48, 49).

53. Tighten all disconnects, close the hose bib (#67), open all shut-off valves (#20) and clean all debris from the spa.

Make sure the suction fitting cover(s) is in place in the footwell of your spa. This unit is not to be installed without an approved suction fitting cover which prevents the entrapment of hair and other body parts. An ap-

proved fitting is supplied by the factory with your Pacific Marquis spa.

54. Fill the spa to the middle of the skimmer opening. **Shock chlorinate** the water before entering and using the spa. It is essential that this shock treatment be done after each refill (#42).



NOTE: If the spa is equipped with an optional ozone sanitation system, refer to the supplemental manual for instructions on the sanitation steps needed prior to using the spa.

55. NOTE: Your Pacific Marquis spa is equipped with a door safety system. If the equipment bay door is opened, or ajar, the support system will not operate. **THE DOOR MUST BE CLOSED COMPLETELY FOR ANY OF THE SUPPORT SYSTEM COMPONENTS TO BE ACTIVATED.**

56. MAKE SURE THERMOSTAT IS IN "LOW" POSITION!

57. Turn electrical power on to the spa. On 120V systems, plug in the power cord and flip the "POWER" switch to "ON" (#24).

On the 240V systems, flip the circuit breaker in the residence electrical panel and the "POWER" switch to "ON" (#24). Close the Equipment Bay door.

OPERATION OF CONTROLS

58. Select the (timer/continuous) mode of operation that you desire and move the timer control switch to the desired position (#29). Refer to the section on TIMECLOCK (#29). Refer to the section on TIMECLOCK for further details (#25-27).

Push the control buttons for the pump, air blower and light to assure proper movement of the buttons (#34).

OPERATING THE SPA

60. Allow the spa to circulate on high speed for 4-5 minutes to discharge air from the plumbing system. After a full flow of water has been obtained from all the jets, adjust the thermostat to the desired setting and return the pump to low speed.

NOTE: Your Pacific Marquis spa has been filled, test run and drained at the factory. While the hose bib has been left open to drain as much residual water as possible, the first time your spa is filled, some slight discoloration may appear. This discoloration will disappear when the spa is completely filled and the filtration system activated.

61. Retest the water for the proper chemical balance and adjust as necessary (#43-45). PROPER BALANCE IS IMPORTANT.

62. For longer pump life, more efficient heating and lower operating cost, we recommend the timer control switch (#29) be left on "CONTINUOUS OPERATION". There is less wear on the equipment when it is run at longer periods rather than short intervals.

An unused spa should circulate for at least four (4) hours per day to maintain proper filtration and water temperature. More frequent use of your spa and cooler air temperatures will require longer circulation times.

ENERGY COVER

63. When the spa is not in use, the Pacific Marquis Energy Cover and floating thermal cover should be kept on the spa to retain the water's heat and to keep out dirt, leaves, etc. With the heating bypass switch in the continuous position, your preset heater thermostat will maintain a constant water temperature between spa uses for a very low cost per day.

While the Energy Cover is not intended to serve as a safety device, it may serve as a deterrent to unauthorized spa use. Cover locks for the Energy Cover are available from your Pacific Marquis dealer and should be installed.

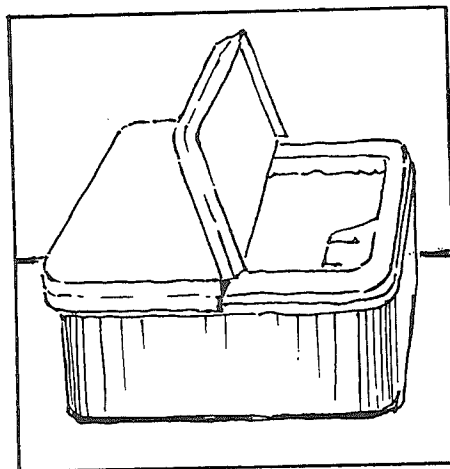
FREEZE PROTECTION

64. Your Pacific Marquis spa has several features which allow you to choose the degree of freeze protection that is most appropriate for your particular spa usage and environment. If the spa is not going to be fully drained and winterized (#73), then maximum freeze protection is obtained by the following:

- timer control switch (#29) on CONTINUOUS operation
- thermostat (#37) on the LOW setting or higher

This results in a continuous circulation of the spa water with the heater automatically maintaining a water temperature of approximately 50°F.

Those desiring a lesser degree of freeze protection can obtain this by using the timeclock (#27, 29) with the timer control switch in the timeclock position (#28, 30). Regardless of the extent of freeze protection required, always leave the thermostat set on the LOW position or higher and where possible, leave the spa in continuous operation.



REGULAR MAINTENANCE

WOOD SKIRTING

65. Your spa skirting has been treated with a sealant at the factory. It is suggested that the skirting be treated twice a year with an additional coat of sealant for maximum weather protection. You should contact your Pacific Marquis Dealer for advice on which sealants work best in your environment.

DRAINING THE SPA

66. It is recommended to completely drain the spa AT LEAST four times a year. More frequent draining may be required depending on use. Unless this is done regularly, the water becomes chemically "saturated" and will no longer respond to regular chemical upkeep. The spa should also be drained before long periods of disuse or for equipment repair. An empty spa should be covered. Direct sunlight on the acrylic surface can cause severe damage or blemishing of the spa shell and can result in the voiding of any surface warranties.

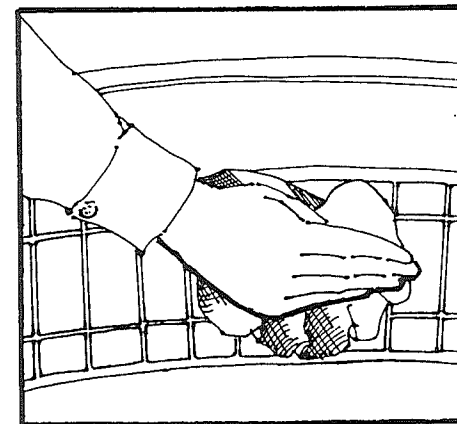
Because of the small water volumes involved with spas, sometimes it is much simpler and less expensive to drain the water than to adjust the water chemistry with chemical additives. Public spa water should be drained and refilled at least once per month.

67. To drain the spa for cleaning or service complete the following steps:

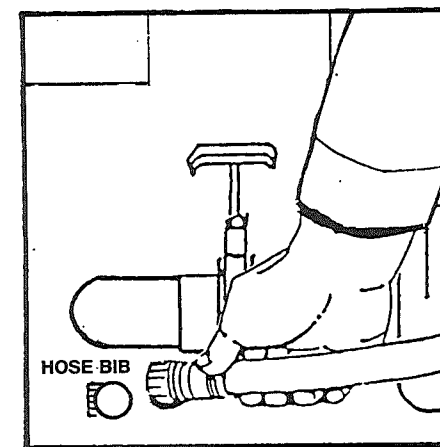
- Turn the thermostat to the OFF position and flip the system switch to "OFF".
- On 120V units unplug the power cord, on 240V units turn OFF the main circuit breaker or disconnect panel.
- Attach a garden hose to the hose bib in the equipment bay.
- Open the hose bib by turning counterclockwise. Gravity will cause the water to drain out from the hose.
- When the spa is empty, close the hose bib and remove the hose.

CLEANING

68. Should the tile or water line become soiled, it can be cleaned with a soft sponge or cloth. Do not use any abrasive cleaners as they can scratch or dull the spa surface or tile.



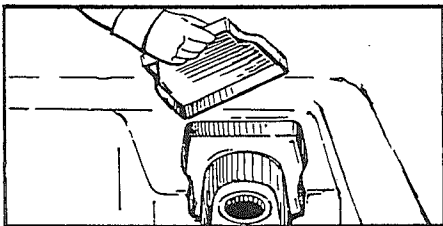
69. Your Pacific Marquis Energy Cover can be cleaned with a non-abrasive household cleaner on both top and bottom sides. A good quality NON-SILICONE based vinyl restorer will help protect the surface from the sun's rays.



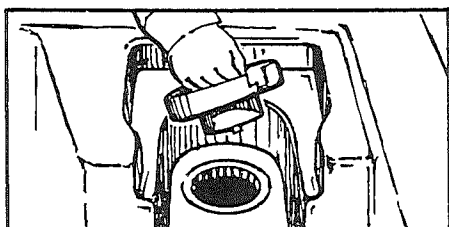
REMOVING THE FILTER

70. Refer to the Spa Maintenance Schedule for cleaning frequency and instructions. The filter cartridge can be removed by completing the following steps:

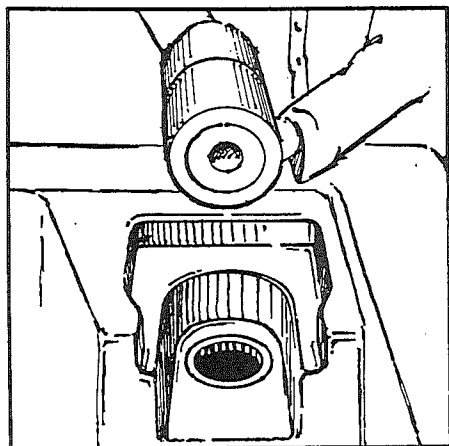
A. Remove the skimmer lid.



B. Twist the catch basket counterclockwise and lift out.



C. Lift out the filter cartridge. Note the position of the filter: the large hole faces DOWN.



D. To reinstall the filter, simply reverse the procedure outlined above.

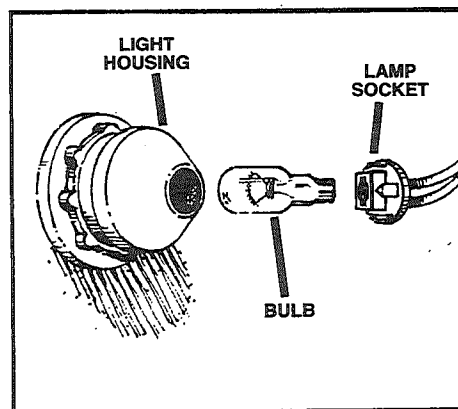
REFILLING

71. Fill your spa with fresh water from a garden hose (#65-67) while adding the necessary chemicals (#42). Remember, it is essential to shock chlorinate after each refill before entering and using your spa. Follow the same procedures as outlined in STARTING YOUR SPA (#51-57).

SPA LIGHT BULB REPLACEMENT

72. To replace a burned out bulb, remove the equipment bay panel to find the spa light access tunnel located at the rear of the equipment bay. The light housing is accessed by reaching through this tunnel.

Remove the lamp socket from the back of the light assembly by turning and pulling at the same time. Gently pull the bulb out of the lamp socket, and replace it with bulb, part #69-0436, available from your Pacific Marquis Dealer. Install the lamp socket back into the light assembly, and close the equipment bay door.



WINTERIZING

73. Your Pacific Marquis spa was designed for year round use and enjoyment and many people find the combination of hot water, hydrotherapy jets and cool air temperatures to be especially soothing. However, if you decide to discontinue the use of your spa for the winter, or for any other extended period of time, we suggest you follow the steps below.

NOTE: Damage can occur to equipment during long periods of inactivity/non use due to condensation.

A. Turn the thermostat to the OFF position and place the system switch on "OFF" (#24).

B. On 120V units unplug the power cord. On 240V units turn OFF the main circuit breaker or disconnect panel.

C. Drain the spa (#67).

D. Remove all residual water from the seats and footwell. If necessary use a bucket to bail out the remaining water, then dry

the spa with towels. A wet/dry vacuum may also be used.

E. Wipe down the tile line (#68).

F. Remove, clean and reinstall the filter cartridge (#70).

G. Reinstall the Pacific Marquis Energy Cover. Contact your Pacific Marquis dealer about the availability of a protective spa cover which encloses the entire spa, including the Energy Cover.

SPA MAINTENANCE SCHEDULE

74. DAILY

Replenish the water level by filling up to 1/2 the skimmer opening (#54). Check and clean the catch basket.

Check the water balance (pH). Adjust if needed (#43).

Check chlorine level and adjust if needed (#43).

For proper filtration, the water should be circulating for at least four hours a day (#62).

Wipe down the water line (#68).

75. WEEKLY

Remove the filter cartridge (#70), and rinse thoroughly with a hose and high pressure nozzle. Soak in a solution of trisodium phosphate (TSP) if the spa is equipped with an ozone sanitation system.

76. MONTHLY

Soak the filter cartridge in a solution of TSP. Rinse thoroughly in clear water.

Clean the spa Energy Cover (#69).

Test the GFCI unit (#13).

77. EVERY THREE MONTHS

Drain the spa completely, refill with water and replenish chemicals (#67, 54, 43).

While the spa is drained, the interior can be sponged with a spa cleaner and rinsed (#68).

NOTE: Do not wax the surface as the wax will dissolve into the water and clog the filter.

78. EVERY SIX MONTHS

Oil wood skirt with protective sealant.

TROUBLESHOOTING

PLEASE NOTE: The following corrective actions may be performed by the spa owner. If the trouble cannot be corrected in the steps below, please refer to your Pacific Marquis Dealer for service. (Improper servicing by an unauthorized serviceman or spa owner could result in damage that will not be covered by the warranty or could cause serious injury.)

SYMPTOMS

CORRECTIVE ACTION

Equipment does not operate

Make sure the equipment bay door is completely closed (#55).

Check to see if the power cord is plugged in (120V operation) (#8-12).

Check the circuit breaker on the control box panel or in the main circuit panel (#23).

Check the SYSTEM switch for "ON" position (#24).

Check the heating time clock switch for the CONTINUOUS OPERATION position (#29).

Test the GFCI to see if it has "tripped" (#13).

IMPORTANT: If the GFCI trips repeatedly, do not use the spa, and contact your Pacific Marquis Dealer.

Pump does not work (in low speed circulation)

Make sure equipment bay door is closed (#55).

Check that the shut-off valves are completely open (#20).

Flip the heating time clock switch to CONTINUOUS OPERATION (#29).

Check for blockages or restrictions at the main drain and catch basket.

Inspect the filter cartridge for dirt and debris. Clean or replace (#70).

Pump does not work (in high speed circulation)

Push the button marked PUMP(I) on the Spa Side Control (#34).

Check the above items in "Pump does not work (in low speed circulation)."

Water is cloudy

Check the water chemistry and balance as needed (#43).

Clean or replace the filter cartridge (#70).

Inadequate jet action

Check the spa water level. Water must be ½ the depth of the skimmer opening (#52).

Check that the shut-off valves are completely open (#20).

Be sure that the air control valves are open (#30).

The filter cartridge may be clogged. Pull the cartridge from the cannister (#70). If the jet action improves, clean or replace the filter.

Underwater spa light does not work

Push the button marked "LIGHT" on the Spa Side Control (#39).

Tighten the light bulb in the socket (#72).

Replace the light bulb (#72).

No heat

Check all steps above in "Equipment does not operate."

Check the High-Limit Control switch in the equipment bay. Push to reset (#21-22).

Check that the thermostat dial is set to the desired setting (#37).

Flip the HEATING time clock switch to CONTINUOUS OPERATION.

Remember: Do not expect hot water immediately from the jets. The heater will take several hours to heat the spa to the desired temperature.

Inspect the filter cartridge for dirt and debris (#70).

Prolonged use of the air blower and jets will have a significant cooling effect on the water. Turn off all blower and jet action to allow the heater to raise the spa temperature (#37).

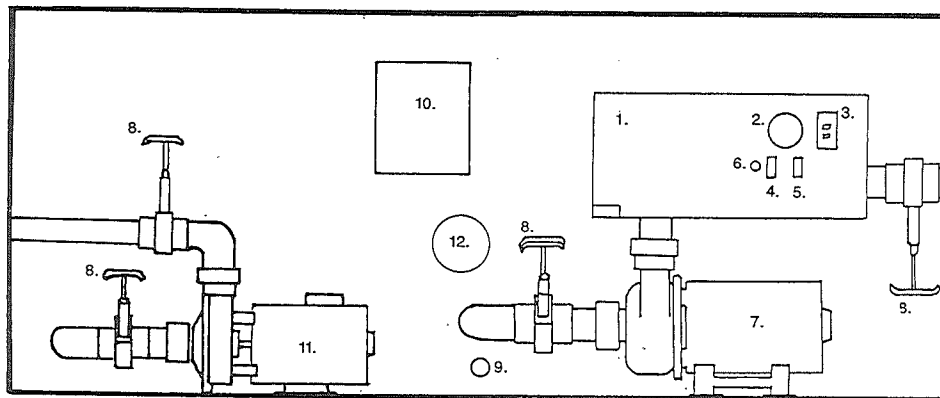
Note: On 120V installations the heater operates only when the pump is on low speed.

Air blower does not work

Push the button marked "BLOWER" on the Spa Side Control (#38).

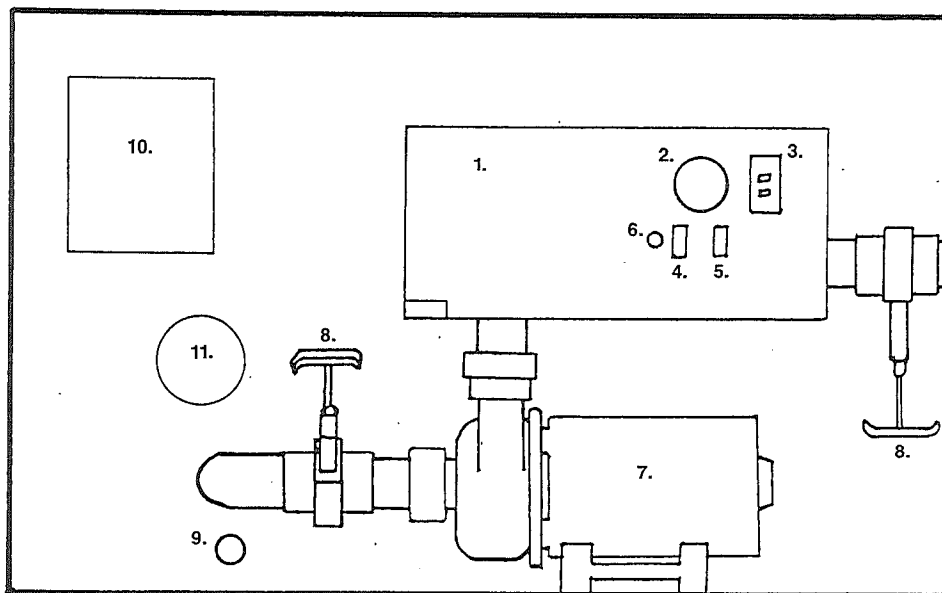
Check all steps above in "Equipment does not operate."

TWO PUMP SYSTEM



- | | |
|---|---------------------|
| 1. CONTROL BOX | 7. 2 SPEED PUMP |
| 2. TIME CLOCK | 8. SLICE VALVE |
| 3. GROUND FAULT CIRCUIT INTERRUPTOR (GFI) | 9. DRAIN VALVE |
| 4. CONTINUOUS/TIMER SWITCH | 10. OZONE GENERATOR |
| 5. POWER ON/OFF SWITCH | 11. ONE SPEED PUMP |
| 6. INTERLOCK SWITCH | 12. LIGHT TUNNEL |

SINGLE PUMP SYSTEM



- | | |
|-------------------------------------|---------------------|
| 1. CONTROL BOX | 7. 2 SPEED PUMP |
| 2. TIME CLOCK | 8. SLICE VALVE |
| 3. GROUND FAULT CIRCUIT INTERRUPTER | 9. DRAIN VALVE |
| 4. CONTINUOUS/TIMER SWITCH | 10. OZONE GENERATOR |
| 5. POWER ON/OFF SWITCH | 11. LIGHT TUNNEL |
| 6. INTERLOCK SWITCH | |

PACIFIC MARQUIS WARRANTY/CUSTOM SPAS

MARQUIS CORP. warrants that at the time of shipment, the products manufactured by Marquis and sold hereunder shall be in conformity with applicable written specifications and descriptions referred to or set forth herein and shall be free from defects in material and workmanship.

5 YEAR/LIMITED SHELL WARRANTY

Marquis Corp. extends to the original retail purchaser a limited, pro-rated warranty on the spa shell. This warranty is for a period of five years from the effective date of the warranty. This warranty does not include the wooden underframe, skirting, or associated hardware, nor does it apply to minor blemishes, pitting, or crazing.

Should Marquis exercise its option to replace a spa shell it will do so at no charge to the consumer within two years of the effective warranty date. During the subsequent three years the purchaser will be charged 25% of the original purchase price for each year of ownership, or portion thereof, after the second year.

The purchaser must return the spa freight prepaid, and Marquis will return the rebuilt spa freight prepaid. The obligation of Marquis Corp. under this warranty shall be to furnish a replacement component* only and shall not be responsible for removal or installation of any product.

FACTORY INSTALLED COMPONENTS WARRANTY

The factory installed pump, heater and controls are warranted against defects which prevent proper spa operation, for a period of two years from the effective warranty date. The remaining factory installed components (i.e. jets and associated plumbing, air channel, wooden cabinet, tile, ozonator and all other equipment components, except as listed above) are warranted against defects which prevent proper spa operation for a period of one year from the effective warranty date.

Marquis Corp. agrees at its option to repair or furnish a replacement for but not to re-

move or install any product or component thereof which upon test and examination by Marquis prove defective. All materials returned shall be freight prepaid.

ADDITIONAL TERMS AND EXCLUSIONS

1. There are no additional warranties which extend beyond the terms of this express warranty. Marquis Corp. makes no warranty of merchantability of the goods or the fitness of the goods for a particular purpose.

2. No other person or entity has been authorized to make any warranty, representation or promise of performance not included in this express written warranty, and Marquis Corp. shall not be bound by any such additional warranty, representation or promise.

3. This warranty also specifically excludes the following:

- Component parts or accessories not manufactured by Marquis Corp. which are covered by separate manufacturer's warranties;
- Indirect, consequential or incidental damages including, but not limited to the cost of removal of the spa from any installation or damages for restoration or repair of any real or personal property incurred in connection with the exercise of any rights or obligations under this warranty.

IMPORTANT: Some states restrict the limitation or exclusion of consequential damages;

- Labor or freight expense;
- Fading, staining, checking or weathering of the wood cabinet;
- Damage to or fading or staining of the spa surface or equipment caused by impact, scratching, abrasive or corrosive cleaners, extreme water temperatures, natural mineral or chemical content of the spa water, water additives or treatment other than those prescribed in the owner's manual, failure to maintain proper water chemistry as recommended in the owner's manual and exposure to direct sunlight or ultraviolet rays;**

- Damage caused by improper handling, installation, non-factory installed accessories or fittings, repair or alteration by anyone other than an authorized representative of Marquis Corp., misuse or accident;
- Damage caused by non-factory installed and/or non-authorized ozone sanitation systems.

4. This warranty extends to the original retail purchaser only and is not transferable or enforceable by any other party. This warranty takes effect upon purchase of the product by the original retail purchaser or six months from the date of manufacture, whichever occurs first. The warranty registration card provided at the time of purchase must be completed, signed by the original retail purchaser and mailed to Marquis Corp. not later than ten days following the date of purchase.

5. In no event shall any obligation of Marquis Corp. extend beyond the original period of any applicable warranty determined according to the applicable starting date.

PROCEDURE

In order to obtain the benefit of this warranty, the original retail purchaser shall notify, in writing, the dealer from whom the spa was purchased within thirty days after discovery of the defect, but in no event later than the expiration of the applicable warranty period.

*Marquis Corp. reserves the right to substitute a similar product for replacement if necessary.

**Important: See owner's manual for instructions regarding installation, maintenance, water chemistry and water temperature.

WARRANTY REGISTRATION

MAIL PROMPTLY

REGISTRATION MUST BE RETURNED WITHIN TEN (10) DAYS OF PURCHASE.

NAME OF PURCHASER		DATE PURCHASED
ADDRESS		
CITY	STATE	ZIP
YOUR SIGNATURE		TELEPHONE
SPA MODEL/COLOR	SPA SERIAL #	PACK SERIAL #
DEALER'S NAME		
DEALER'S ADDRESS		

I HAVE RECEIVED AND READ THE OWNERS MANUAL ☐

I HAVE READ THE SAFETY PRECAUTIONS FOR MY SPA ☐

OPTIONAL INFORMATION:

Age: ☐ 18 to 30, ☐ 31 to 45, ☐ 46 to 60, ☐ 60 and older

☐ Single ☐ Married ☐ Children

How do you plan to use your spa/bath?

[A] Recreation [B] Entertainment

[C] Health Therapy [D] Business / Commercial

How did you find out about Pacific Marquis?

[A] Friend [B] Newspaper [C] Magazine [D] TV

[E] Radio [F] Other _____

Have you owned a pool or spa before? YES NO

How do you plan to install your spa?

[A] Self [B] Contractor [C] Dealer



