

3903 BROOKWOOD RD

10524105

5/18/2007

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

CERTIFICATE OF COMPLETION/OPERATION PERMIT

1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

FILE: 4479A DATE: 9/6/88

TC: 105-241-05 ☐ L ☑ CRT

SERIAL № 11099

Name of Owner Andrew G. Hogge Juris.:

Address of Property 3903 Brook Wood Dr

Inspection Data:

Tank Material NA

Total Length of Drainfield 75X3

Number of Lines 1 @ 75

Cover Depth 12"

Water Supply Source Well

Distance to Water Source Well Not Recorded

Excavation Inspected 5/6/88

Tank(s) Inspected NA

Wash Line Inspected NA

High Water Alarm Inspected NA

PLOT

Design: 1988-CON, SF, 2255F, T, 126, CTR#

The undersigned has inspected the Septic Tank System described above, and certifies it has been

☒ installed or constructed ☐ altered or repaired

☐ in accordance with the permit issued ☐ as detailed in the plot above

and meets the provisions of 10 NCAC 10A .1900, "Laws And Rules For Sanitary Sewage Collection, Treatment, And Disposal" in effect on the date of issuance of the permit. The issuance of this

☒ Certificate of Completion ☐ Operation Permit

does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 10 NCAC 10A .1900 in addition to those listed below under "COMMENTS." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

COMMENTS: Installation Permit Not Issued.

Willard B. Ramsey
Environmentalist

Mecklenburg County services are available without regard to ethnic origin, sex, or disability.

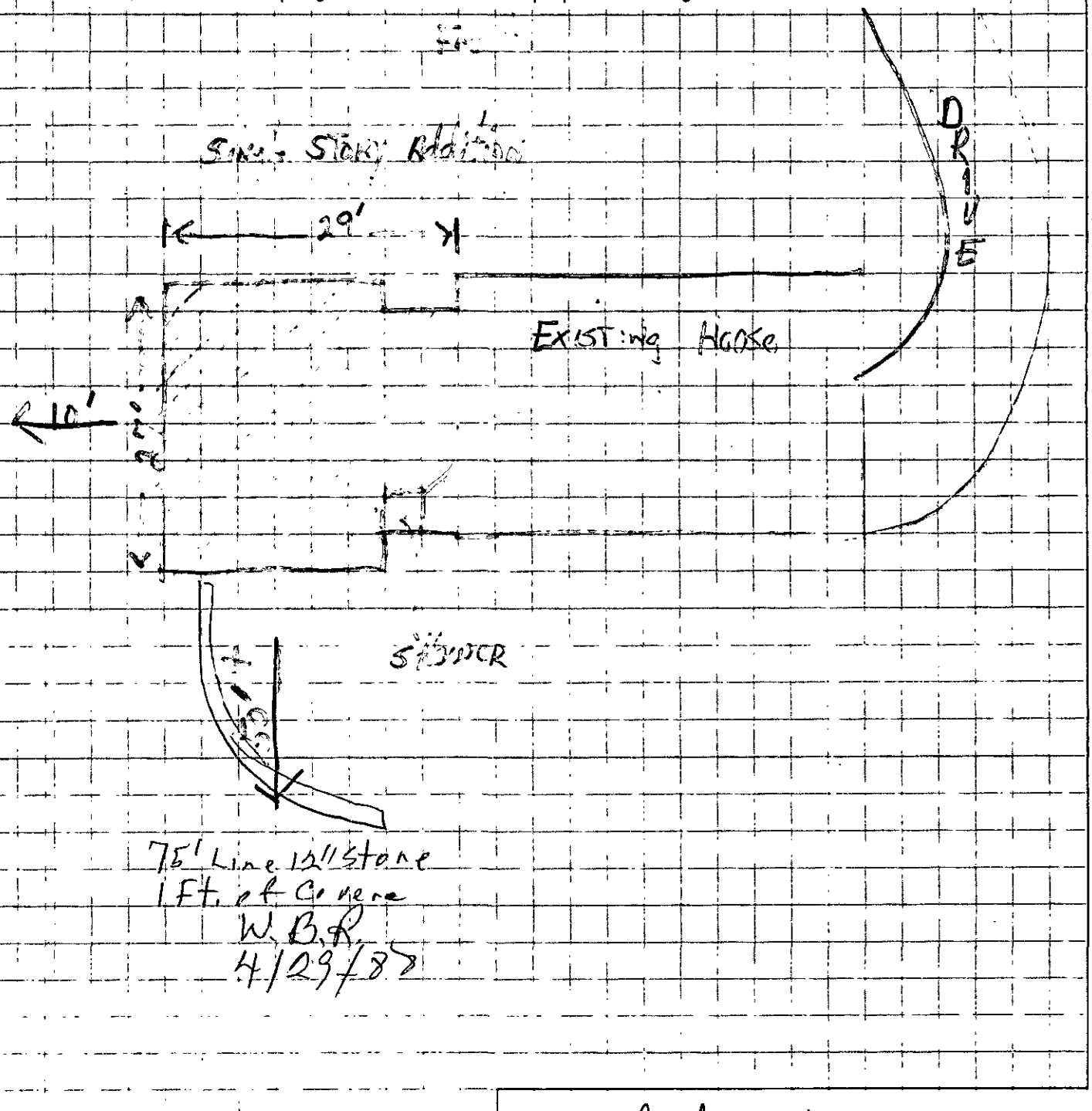
PROPOSED PLOT PLAN

MECKLENBURG COUNTY ENVIRONMENTAL HEALTH
1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

FILE: 4479A

TC: _____

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries, proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.



Signed: _____

Date: _____

Total Fee $100.00 4/18/88 Pd $50 - Clk # 13436 JR 4/27/88 Paid $50.00 ck # 13501 Second Permit EW

APPLICATION FOR AN IMPROVEMENT PERMIT

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

Mecklenburg County services are available without regard to ethnic origin, sex, or disability.

(OFFICE USE ONLY)
FILE: 4479A
TC:
SERIAL: № 16008 ☐ L ☐ CRT

JOB LOCATION

① ADDRESS: 3903 (STREET NO.) Brookwood (STREET) DR. ② FILE:
③ JURISDICTION: meck ④ TAX PARCEL NO.: 105-241-05
⑤ SUBDIVISION: ⑥ LOT: ⑦ BLOCK:

OWNER

⑧ NAME: Andrew (FIRST) G (MIDDLE) Hogge (LAST)
⑨ MAILING ADDRESS: 3903 Brookwood DR.
⑩ CITY: Charlotte ⑪ STATE: N.C. ⑫ ZIP: 28215
⑬ PHONE: (WORK) 373-8907 ⑭ (HOME) 597-8497

REQUEST

This request is for a(n):

⑮ ☐ New permit
⑯ ☐ Repair or alteration permit
⑰ ☐ Authorization for mobile home exchange
⑱ ☒ Other (specify) Fla Room.

DESIGN CRITERIA

System will serve:

⑲ ☒ Residence ⑳ ☐ Mobile home ㉑ ☐ Business or place of public assembly
㉒ Number of bedrooms? 4 ㉕ Type?
㉓ Maximum occupancy? 4 ㉖ Maximum number of employees?
㉔ Basement? ☐ yes ☒ no ㉗ Maximum number of seats?

WATER SUPPLY

㉘ Water supply from (present or proposed):

A ☑ Individual well
B ☐ Municipal system
C ☐ Community well
D ☐ Community system

㉙ The undersigned, owner of the property described above as the "JOB LOCATION" has read the foregoing application, acknowledges that the contents of same are true, and authorizes agents of the MECKLENBURG COUNTY HEALTH DEPARTMENT to enter onto the property for the purpose of processing this request.

Signed: David W Hogge
Date: 4/18/88

IMPROVEMENT PERMIT

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. This approval is granted in accordance with the provisions of Laws And Rules For Sanitary Sewage Collection, Treatment And Disposal in effect at the time of issuance of the permit and is subject to the following provisions:

... No work shall be conducted on the septic tank system until an Installation, Construction, Alteration and/or Repair permit is issued by this Department.

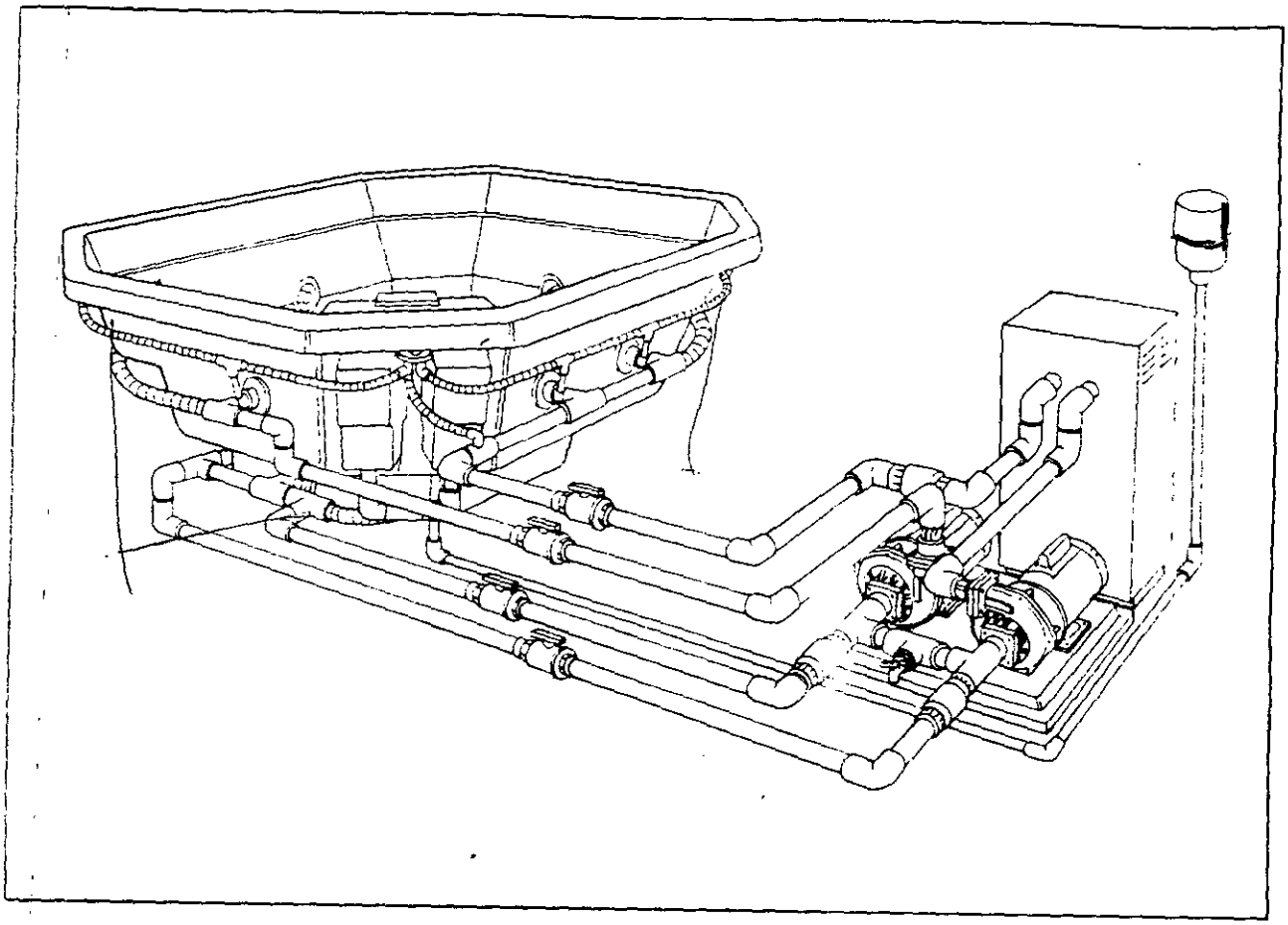
... This permit is not transferable, and shall become null and void 36 months from the date of issuance.

W. B. Ramsey, Environmentalist — 4/29-88 Date
Director or Authorized Section Head — 5/2/88 Date

*This permit must be signed by the Director of Mecklenburg County Health Department or an authorized section head in order to be valid.

The Meridian II™

Whirlpool Spa



1500 GAL Septic Tank (Ronnie Oak)

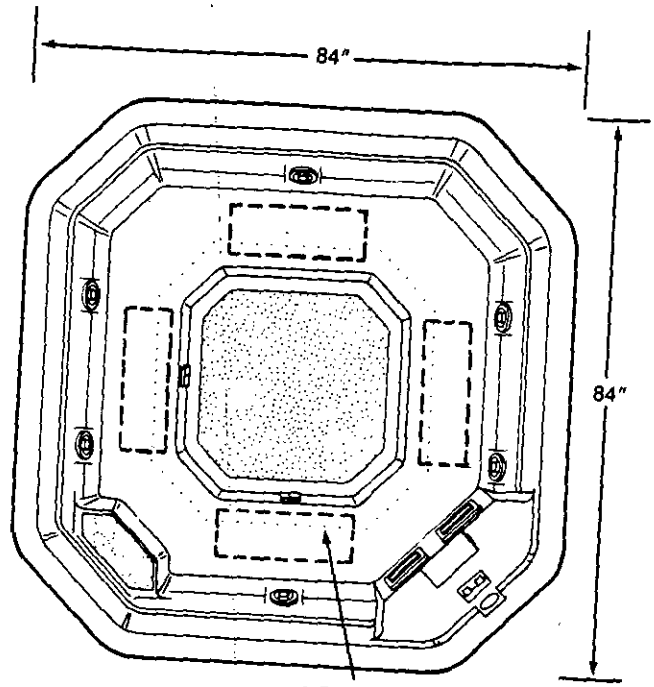
Locust Const. Co.
Floyd Honeycutt

Specifications and Installation Instructions

Andy Hogge
373-8917
4:30 PM

Jacuzzi WHIRLPOOL BATH

SPECIFICATIONS

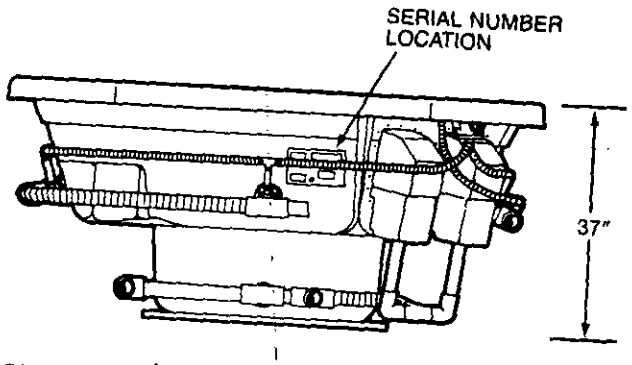


TOP VIEW

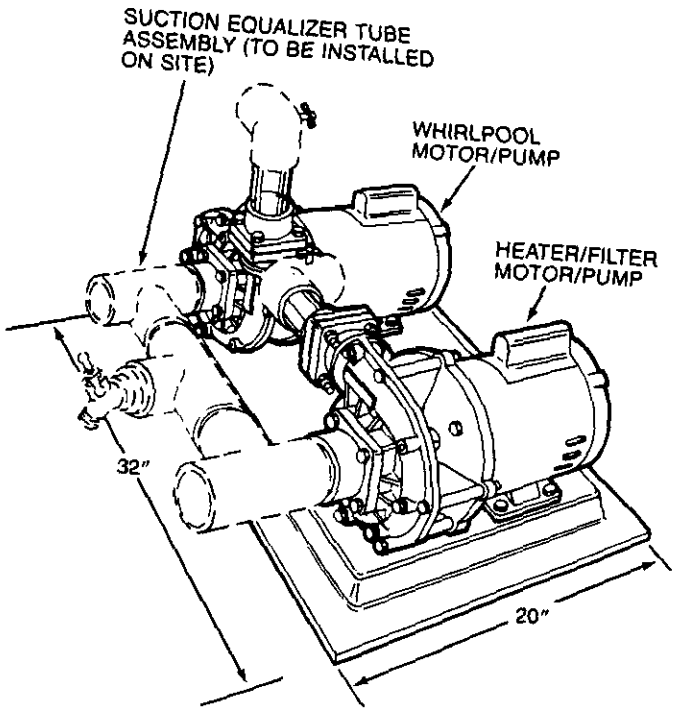
RECTANGLES IN ILLUSTRATION SHOW PLACEMENT OF WOOD SUPPORTS. SEE PAGE 4 OF INSTALLATION INSTRUCTIONS.

LOCATE WOODEN SUPPORTS BENEATH OUTER PERIMETER OF SPA SEATING AREA.

MERIDIAN II SPA



SIDE VIEW



(DOTTED LINES INDICATE PARTS TO BE INSTALLED ON SITE.)

EQUIPMENT PACK

SPECIFICATIONS

MODEL	DIMENSIONS	WHIRLPOOL MOTOR/PUMP	HEATER-FILTER MOTOR/PUMP	WHIRLPOOL JETS	FILTER	OPERATING GALLONAGE	FLOOR LOADING	SHIPPING WEIGHT	ELECTRICAL REQUIREMENTS
Meridian II	84" L. (213 cm) 84" W. (213 cm) 37" H. (94 cm)	—	—	6	50 sq. ft. (4.5 sq.m.)	400 Gals. (1514 Ltrs.)	110 lbs./sq.ft. (490 kg./sq.m.)	690 lbs.* (313.6 kg.)	—
Equipment Pack	32" L. (81 cm) 20" W. (51 cm) 31" H. (79 cm)	1.5hp (1.2kw) 230 VAC/10.0 AMP 60 Hz., 3450 RPM Single Phase	0.5 hp (.4kw) 230 VAC/4.9 AMP 60 Hz., 3450 RPM Single Phase	—	—	—	22 lbs./sq. ft. (98 kg./sq.m.)	100 (lbs. (45.5 kg.)	Two 230 VAC/ 15 AMP Circuits

*Shipping weight includes equipment pack weight.

PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

The Meridian II™ Whirlpool Spa

Jacuzzi Whirlpool Bath, continually striving to provide luxury and comfort, offers the Meridian II™, a 7′ octagonal whirlpool spa with equipment pack. Made of lustrous acrylic/frp, the spa is available in several colors as a factory-plumbed shell and will seat up to 7 people. Six high performance directionally adjustable whirlpool jets provide superb hydromassage performance.

A standard feature of the Meridian II is the Water Rainbow™, which will create a dazzling, shimmering waterfall effect while recirculating the water.

The Silent Air Induction System can be controlled by two knobs conveniently located on the spa rim. As an adjunct to the whirlpool system, the air channel built into the seat can be tapped and connected to an optional air blower for an even greater bubbling effect.

Two patented front load skimmer/filters, designed by Jacuzzi Whirlpool Bath, offer a 50 sq. ft. filtration system for maximum efficiency, allowing easy access to both filter cartridges from inside the spa without having to drain the spa. In addition, the Meridian II features suction safety design, integrated step, and continuous contoured seating. Also, a recessed ring around the inside of the spa can be accented with tile (not included) or other finishing materials of your choice.

The separate equipment pack, shipped with the spa, provides a 1½ hp whirlpool and a ½ hp heater/filter motor-pump. The design of the Meridian II permits you to supply the heater of your choice, giving you the flexibility of selecting the most desirable and economical heating source for your particular spa installation. You can choose from the wide range of electric and gas heaters available from your spa dealer. We recommend that any electric heater you choose be at least 11 kw and that a gas heater be a minimum of 40,000 BTU's, to allow a heat rise of approximately 15 °F. per hour.

The spa and equipment pack system requires 2″ or larger schedule 40 PVC interconnecting piping.

OPTIONS

Air Blower
Gas Heater
Electric Heater
Rigid Insulation Spa Cover
Air Switch/Timer
Hair/Lint Strainer

ARCHITECTURAL SPECIFICATIONS (Short Form)

Whirlpool spa shall be the Meridian II™ Whirlpool Spa with equipment pack as manufactured by Jacuzzi Whirlpool Bath in colors and sizes shown in drawings and schedules.

Use a mild liquid detergent to maintain bright smooth surface. Do not use abrasive cleaners.

INSTALLATION INSTRUCTIONS

Inspection and Shipping Claim

Check for shipping damage upon receipt of the spa. Jacuzzi Whirlpool Bath is not responsible for damage to the spa sustained during shipping. If damage is evident before unpacking, see instructions regarding shipping claims on the outside of the carton and immediately file a claim with the carrier.

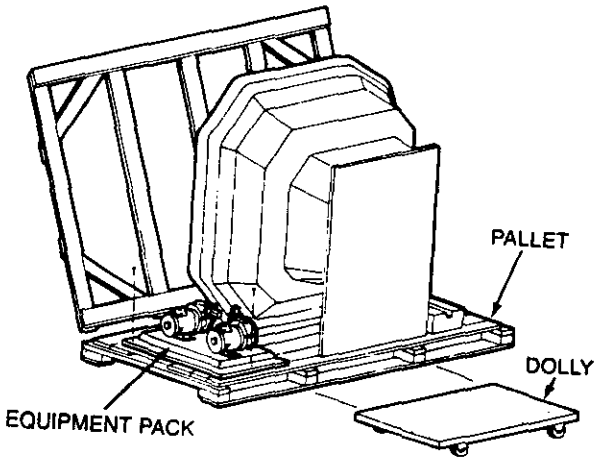
Once the spa has been removed from the carton and before it is permanently installed (see below on this page for unpacking instructions), check the spa completely for damage. Fill the shell with water and operate the system (see Operating Instructions) to check for leaks which may have resulted from shipping or handling. All Jacuzzi Whirlpool Bath spas are factory tested for proper operation and water tight connections prior to shipping. If leaks are detected, immediately notify your Jacuzzi Whirlpool Bath dealer or Authorized Service Agent, or call Jacuzzi Whirlpool Bath, (800) 225-8292, for Warranty Service.

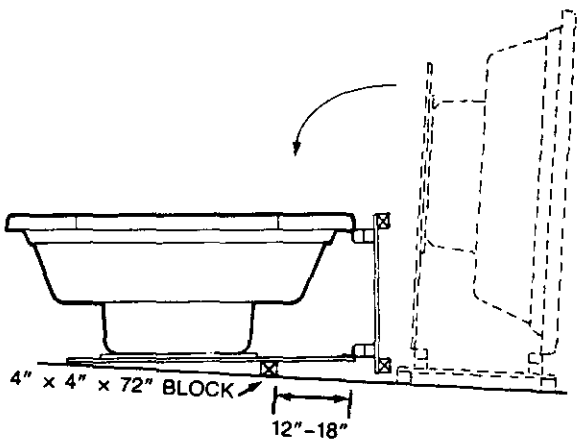
NOTE: Damage or defects which could have been discovered and repaired prior to installation and which are claimed after permanent installation of the spa, are excluded from our warranty.

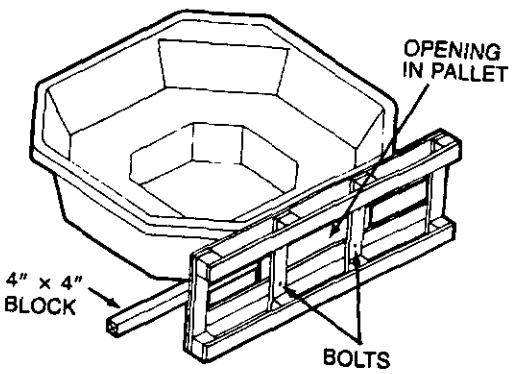
Unpacking

1. Remove the outer carton by disassembling bracing and side panels.
2. Remove the equipment pack from the pallet by removing bolts and nuts securing the equipment pack base to the pallet.
3. The spa should be moved to its final location on a dolly in its upright position while still attached to its shipping pallet.
4. When the spa has been moved to its final location, preferably a concrete pad or other supporter, place a 4" × 4" × 72" wooden block beside the base side (bottom end) of the spa so it is parallel with the pallet.
5. Tip the spa over onto its bottom with block supporting the spa. **Do not handle the spa by its plumbing; handle it by the shell only.**
6. Detach the spa from the shipping pallet by removing the four J-bolts from the bottom.
7. Leave the remaining plastic sheet attached to the spa shell to keep the shell clean and free from debris during installation.
6. Before installation begins, remove and retain the owner's packet from the product accessory box. This packet contains, the Specifications and Installation Instructions, and Operating Instructions. The accessory box also contains filter cartridges, skimmer baskets, check valves, and the equalizer tube assembly with installation hardware and connections to be installed on the equipment pack. Set aside the filter cartridges in a dry place until its is time to set up the spa equipment. Read all instructions contained in both manuals before beginning installation.
7. Record the spa and equipment pack serial numbers on the inside front cover of the Operating Instructions. (See the illustration on page 1 of this manual for the serial number location.)
8. When unpacking optional equipment, keep enclosed literature for owner's reference.

Do not cover piping that is to be enclosed until having completed a 24-hour leak test. Verify that the spa and system, once filled with water and primed, are watertight for a 24-hour period before covering piping.



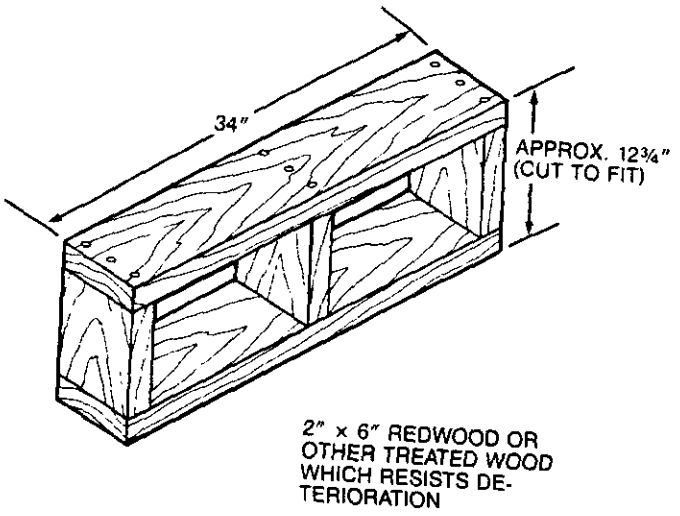




Indoor Installation

Support

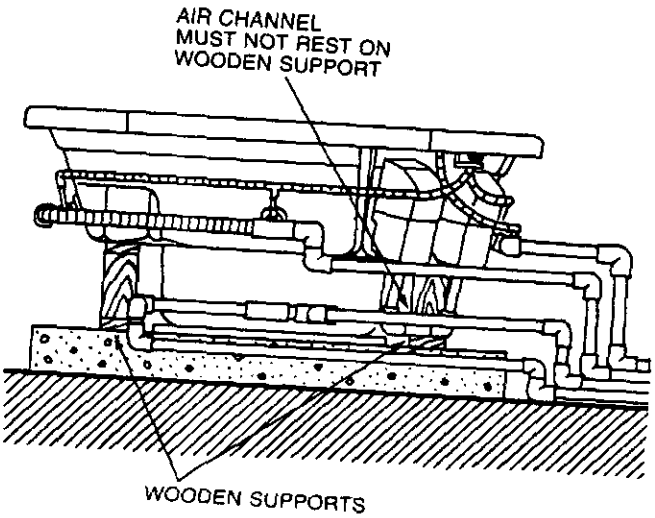
If you install your spa indoors, be sure to provide proper support. The spa is very heavy when filled with water and in use. The floor or deck it is placed on must be capable of supporting a 4872 lb. (110 lbs./sq. ft.) load, including spa, water, and estimated user weights. Consult an architect or engineer to determine the adequacy of your floor or deck to support this amount of weight. The spa seating area and foot well must be fully supported. Construct four 12¾" × 34" supports from 2" × 6" redwood or equivalent decay-resistant or treated wood. The dimensions given are approximate; supports should be cut to fit tight between the seat area and the floor. Locate the supports as shown in the illustration on the inside front cover. **Do not fill the spa with water until the supports are installed.**



Draining the Spa and Equipment Pack

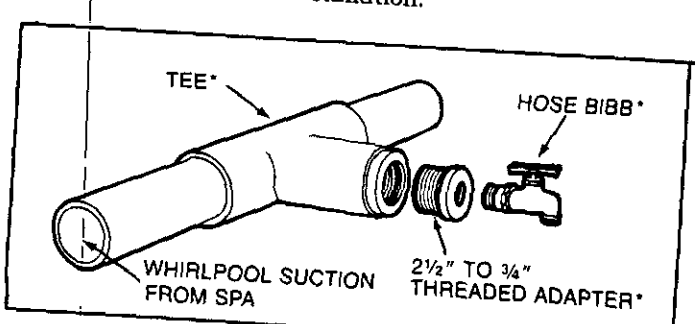
Two methods of draining a spa installed indoors are possible. You can install a permanent drain line in the suction line of the spa, extending from the spa to the house sewer line and using drain assembly fittings available at most local hardware or plumbing supply stores. Another method is to install a drain valve in the suction line for hooking up a garden hose which can be run to the house sewer line or to an outside storm drain. Check local plumbing codes. See illustrations below.

If you locate your equipment pack indoors, provide drainage for that, as well. You can attach a garden hose on the hose bibb provided (once it is installed on the equalizer tube between suction lines at the pumps) and run it to the house sewer line when draining the equipment pack.

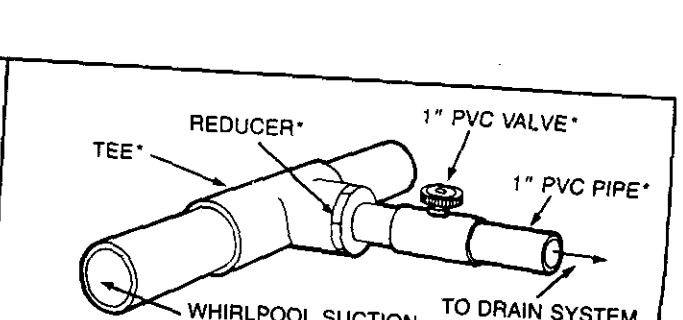


Surroundings

Water which splashes on the floor during use or which is emitted from the air intake assemblies may cause a walking hazard and/or structural damage unless good drainage is provided and proper building materials are used in the area surrounding and beneath the spa. Take into consideration, also, the high room humidity which will exist due to high spa water temperatures. Providing natural or forced ventilation of the room will help maintain comfort and minimize moisture damage to the building. Jacuzzi Whirlpool Bath is not responsible for damages resulting from excess moisture or water spillage. Consult an architect or engineer for aid in designing your indoor installation.



DRAIN HOSE HOOK-UP



PERMANENT DRAIN ASSEMBLY

*PARTS SHOWN ARE NOT PROVIDED

Outdoor Installation—Below Ground

The overall length of plumbing lines between the spa and the equipment pack must be less than 20 ft. If you are installing your spa below ground level, the base of the equipment pack must not be more than 9″ above the spa rim. We recommend that you install a hair and lint strainer (available as an option) in each suction line at the equipment pack for aid in priming. (See "Plumbing" section on pages 10-11.)

Your spa should be installed so that the air intake opening on the air control assembly is not obstructed by backfill or insulating material. If, however, your installation will cause the air intake to be restricted because of such obstruction, we recommend that you construct a protective baffle around the intake to provide a fresh air passage to it.

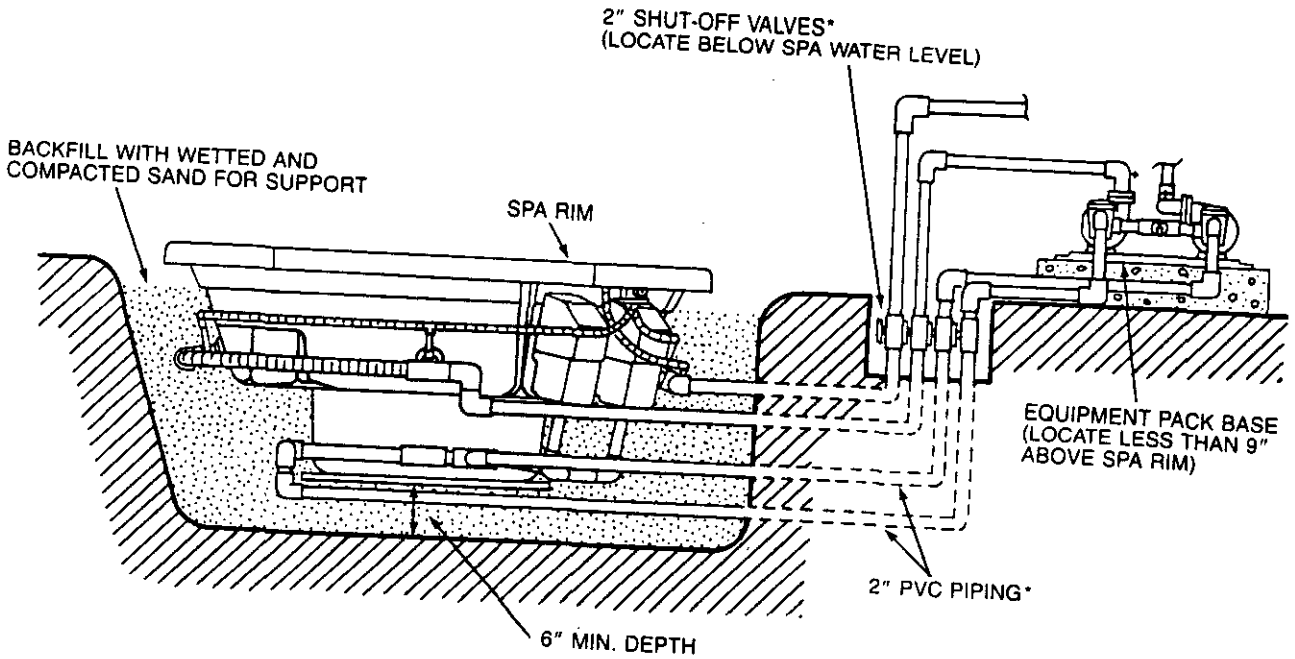
Backfill Method

If your ground water level is low and drainage is good, then you may use the backfill method to install your spa.

Dig a pit 6″ deeper than the planned height of your spa and 6″ around the outside walls. Since backfilling is below grade, you should also trench out a plumbing run to the equipment pack at this time. Fill the bottom of the pit and level it. Make sure the spa is at the desired height. All plumbing connections should be made at this time. The plumbing system should be tested before completing backfill. (See "Plumbing.") Backfill beneath seat areas and perimeter, wetting the sand occasionally. Important: Use care when backfilling, both to avoid system damage and to prevent sand from entering air line system. The backfill should fully support the underside of the seat area and sides. Finishing materials around the spa, such as decking or patio, should not extend beneath the spa rim in such a way that the spa rim, after shifting or settling of backfill sand, would become the main support of the spa. The spa rim is **not** designed to support the weight of the spa. If the rim **does** support the spa, irreparable damage might occur which is not covered by the warranty.

NOTE: Do not use the backfill method if ground water level is high or drainage is poor, as hydrostatic pressure may lift the spa out of the ground. If, because of heavy rains, the ground water level is temporarily high, ensure that the spa is filled with water (except when cleaning) to compensate for the lifting force.

BACKFILL METHOD



Outdoor Installation—Below Ground (Continued)

Support Method

If your ground water is high and/or drainage is poor, you will need to build a concrete pad at the bottom of the pit to support your spa and prevent movement and slippage. Build forms for a 60" × 72" × 4" thick level concrete pad. Install a #10 gauge wire mesh 6" × 6" steel reinforced grid. Then pour concrete. Build wooden supports and fit them under the spa seating area as instructed in "Indoor Installation." Refer to "Support Method" illustration.

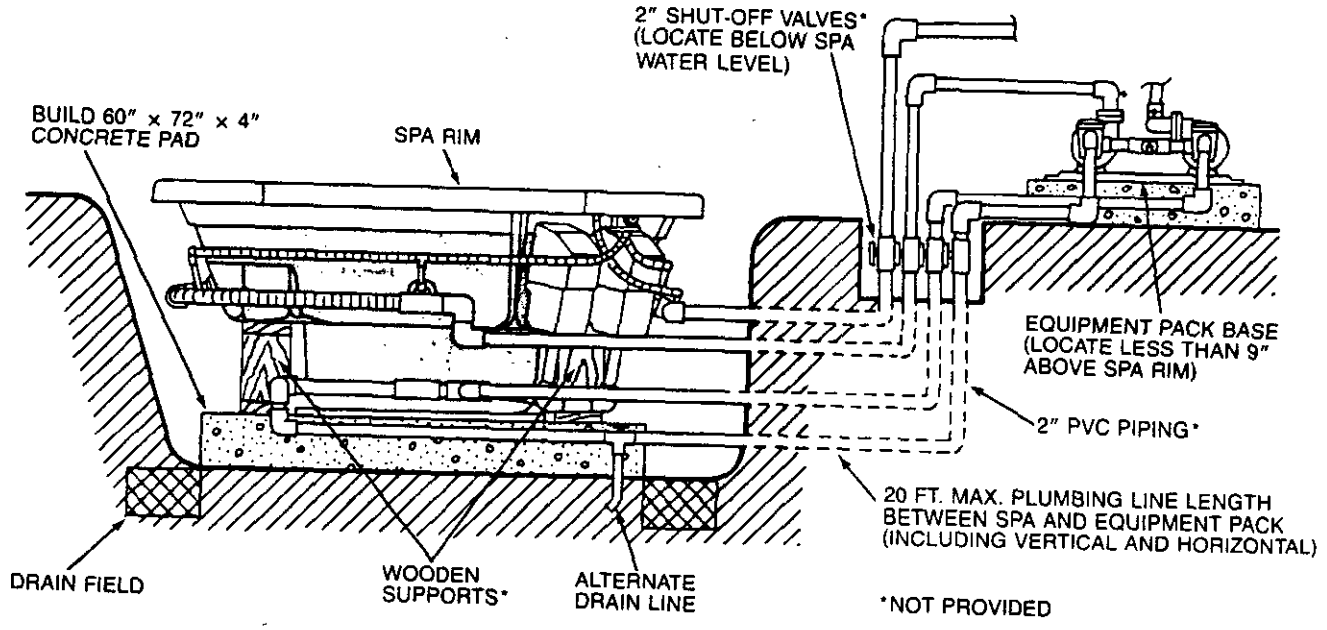
Draining the Spa

The spa can be drained to the level of the suction fittings if connected to a drain line or a gravel drain field. Whether the spa is installed on a concrete pad or in a backfilled pit, install an accessible drain valve in the suction line and run a drain pipe to a dry well, gravel drain field or storm drain. (See illustrations of suggested drain valve fittings on page 3.) If your spa is installed lower than any drain field or storm drain, then it will be necessary to drain the spa by hand or by means of an electric pump. When using an electric pump, observe caution and use a grounded cord, preferably with a plug-in GFCI (Ground Fault Circuit Interrupter) available at your local hardware or electrical supply store. For maximum safety, do not use an electric pump while the spa is occupied.

Air Blower Option

In the event that the air blower option may be added by the owner at a later date, we recommend that piping be stubbed out from the air channel at this time. (See Optional Air Blower section.)

SUPPORT METHOD



Outdoor Installation—Ground Level or Above

You may install your spa and equipment pack so the spa is at ground level or above. The unique characteristic of the equipment pack, which allows your spa system to be located away from the spa itself, is that it is designed to allow flexibility in installation. This means that you can locate your spa on a level higher than the equipment pack, as long as the total combined horizontal and vertical length of the plumbing lines between the equipment pack and the spa is no more than 20 feet, and as long as the equipment pack base is less than 5 feet below the spa rim.

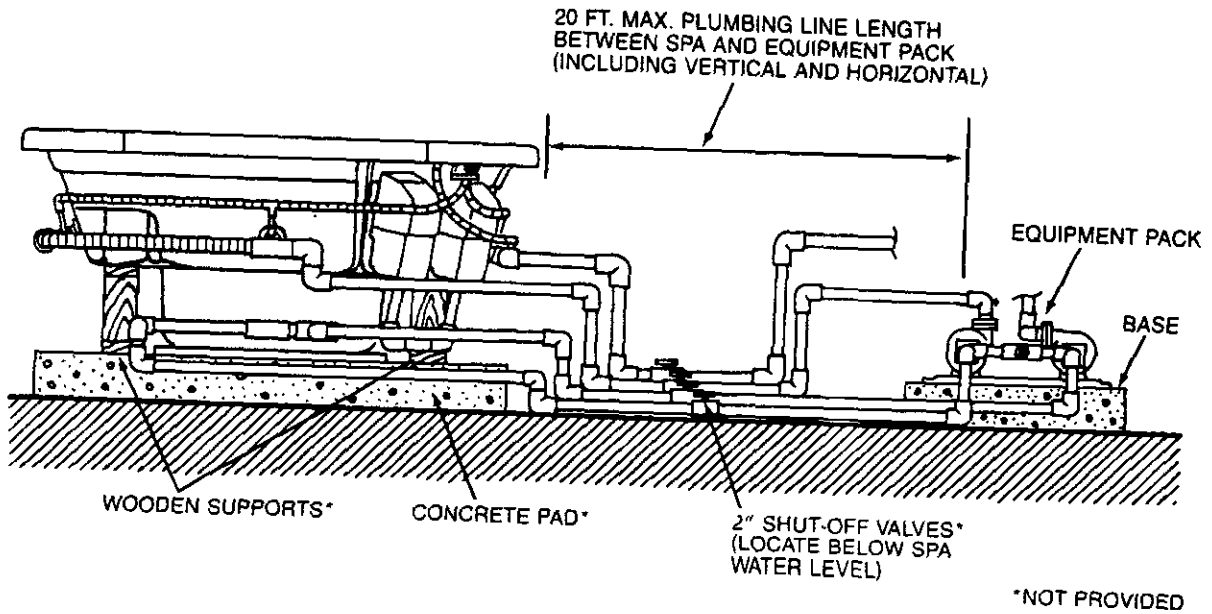
Support

Particularly in deck installations, make sure the floor supporting the spa is strong enough to bear the load of the spa, which is approximately 4872 lbs. (110 lbs./sq. ft.) including spa, water, and estimated user weights. Consult an architect or engineer to determine the adequacy of your floor or deck to support this amount of weight. Build wooden seat supports as instructed in "Indoor Installation."

Draining the Spa

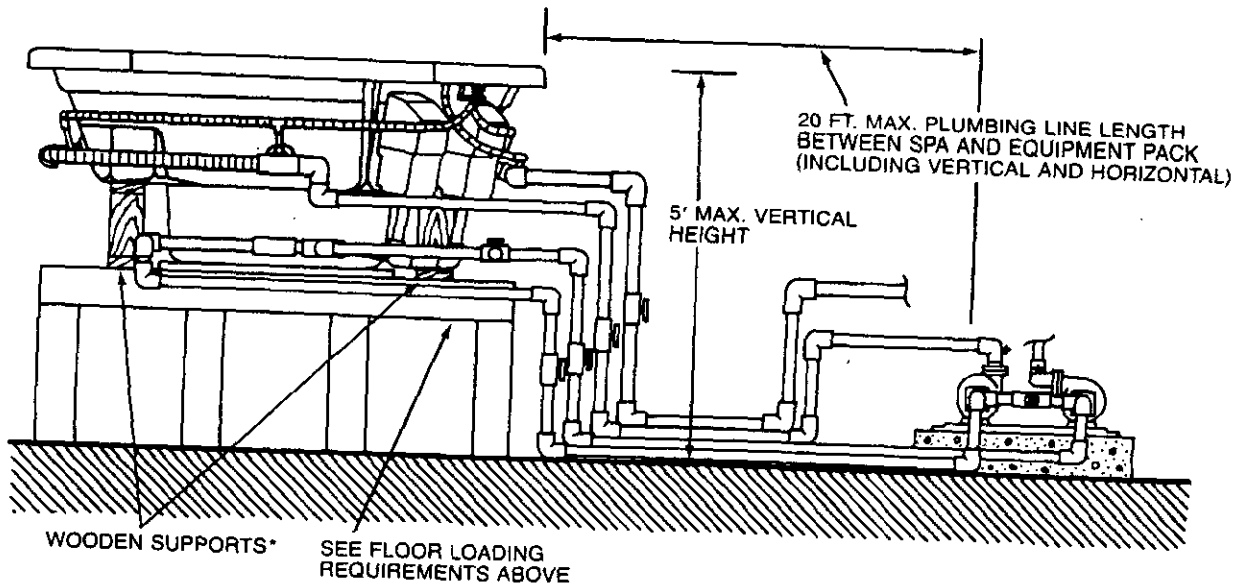
As in other installations, you can install a permanent drain valve in the suction line; this will allow the spa to drain into a sanitary drain, storm drain, or drain field. (See illustrations of suggested drain valve fittings on page 4.) Consult local codes.

GROUND LEVEL



*NOT PROVIDED

ABOVE GROUND LEVEL



*NOT PROVIDED

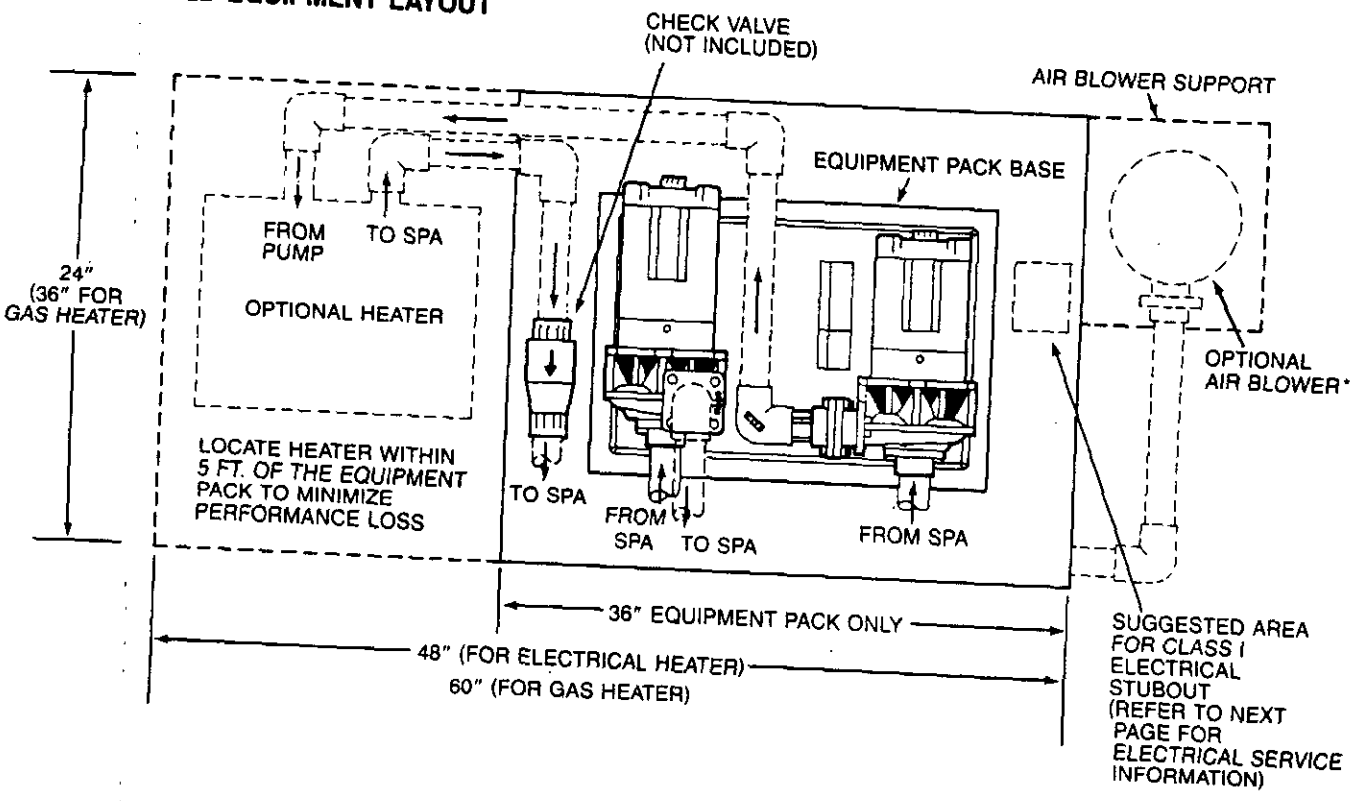
Equipment Pack Site Preparation

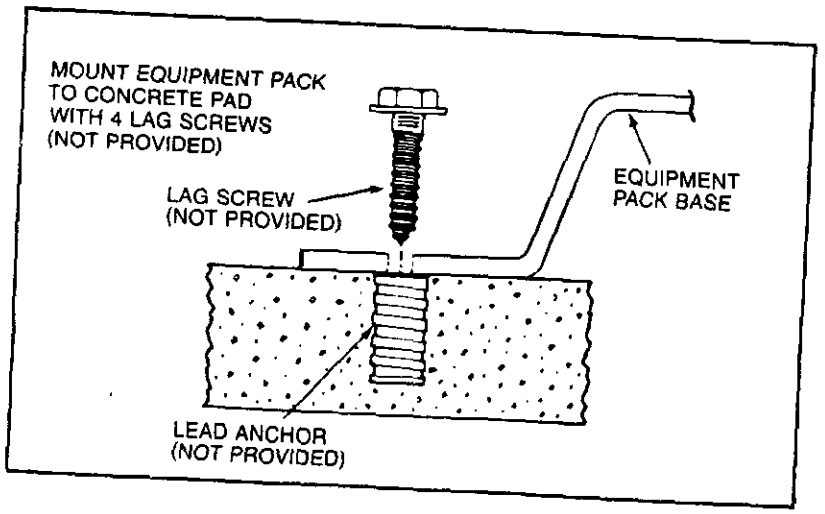
Locate the equipment pack on a level surface (at least 5 feet but not more than 20 feet from the spa) where there is sufficient access to the equipment. Make sure the site selected will allow drainage of water away from the equipment pack. We recommend that you build a concrete pad for the spa equipment. If an electric heater is to be used, the pad should measure 48" × 24" × 3" thick; if a gas heater is to be used, make the pad 60" × 36" × 3" thick.* The heater must be located within 5 feet of the equipment pack and on the same level. The pad should be reinforced with 6" × 6" #10 gauge steel wire mesh grid. Attach a #12 solid copper wire to the wire mesh grid with a ground clamp. This wire should be long enough to reach the bond bar (see "Bonding" in section on Electrical Service).

After pouring concrete, and before it has set, locate holes for bolts or anchors to secure the equipment pack base to the pad. Refer to the hole locations on the flange of the equipment pack base. Then secure the equipment pack base to the pad. See illustrations on this page for details.

*Refer to heater manufacturer's installation instructions for proper placement and clearance around the heater, as well as proper plumbing methods. Adjust pressure setting on heater according to manufacturer's instructions, if so equipped.

RECOMMENDED EQUIPMENT LAYOUT





Electrical Service

Since most spa owners are not usually qualified to install the electrical hook-up to the equipment pack, we recommend that you hire a professional electrician for a completely safe and functional installation. You or your electrician should obtain whatever electrical permits may be required in your community and have the finished installation inspected by the local building or electrical inspector. Consult your local building inspection department to determine local requirements. Your electrician must size the wires to provide adequate amperage and voltage at the equipment pack. The type of wiring insulation, amperage requirement, and distance from the service panel will determine the wire size (minimum 12 gauge recommended). See also sections on Grounding and Bonding.

You will need to purchase a means of controlling your spa equipment pack. We recommend that you install an air switch/timer such as that available as an option from your Jacuzzi Whirlpool Bath dealer. Follow switch manufacturer's instructions when installing and refer to Addendum sheet included with this product for wiring information.

Provide a separate 230 VAC circuit to supply power to each of the motor/pumps. Additional circuits will be needed for any auxiliary equipment, such as electric heater, air blower, or chlorinator.

NOTE: When installing power wiring to the motors, refer to wiring diagrams on motors or behind connection plate.

Bonding

Using a #8 solid copper wire, connect the equipment pack motors, current collector pipes (if an electric heater is used) and air blower (if used) to a local bonding bar. Also connect all fixed metal objects (metal railings, window frames, greenhouse structures, lamp poles, fence posts and gutters within 5 feet of the spa to the local bond bar. The local bond bar must be connected to the house sub-panel or main electrical panel with a #8 solid copper bond wire. Consult your local building inspection office for requirements. (See National Electrical Code Article 680-22.) Bonding lugs are available at your local electrical supply store.

Grounding

The continuous service ground (minimum #14 copper) must run inside the electrical supply conduit from the main service panel to the ground terminal in the equipment.

Approved Local Ground. An approved local ground may be an 8 ft. long ground rod, a ground plate electrode, or a buried metallic water pipe with at least 10 ft. or more of buried pipe. See Article 250 of the NEC or consult your local building code for additional approved grounding methods.

CAUTION

Your equipment pack is an electrical device. It has been made to operate as safely as possible with many safeguards designed in. It complies with the NEC (National Electrical Code). It must be installed at least 5 feet away from the spa and grounded properly in order to maintain these safeguards. (See "Approved Local Ground.")

All fixed metal within 5 feet of the spa must be bonded (see Bonding). Electrical receptacles must be at least 10 feet from inside of the rim of the spa and be of a GFCI (Ground Fault Circuit Interrupter) type, or in a GFCI circuit.

Area lighting must not be located over the spa and must be at least 5 feet horizontally away from the spa rim, at least 5 feet above the floor or ground. If within 10 feet of the spa, it should be in a circuit protected by a GFCI (see National Electrical Code, Article 680-6).

Without proper grounding and bonding, a system malfunction may cause fatal shock!

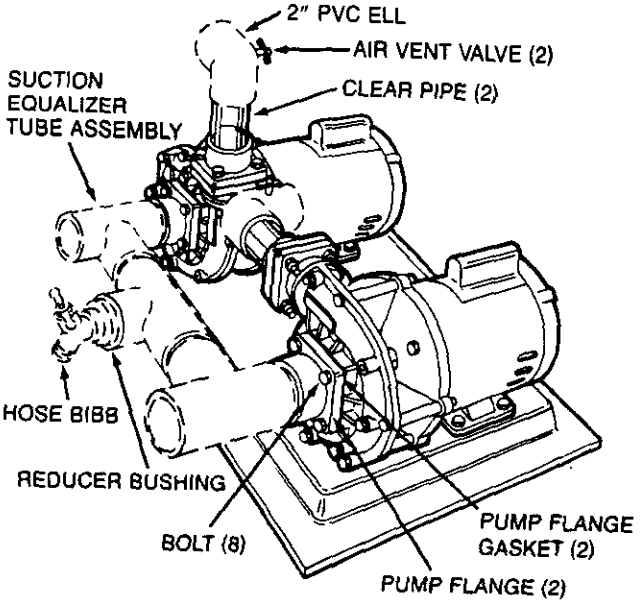
Plumbing

Preliminary Assembly

Once your equipment pack is located, attach the suction equalizer tube assembly provided to the suction inlets of the pumps. Align pump flange ends of the assembly and install using gaskets, bolts and washers provided. Next, install the 1½" × ¾" reducing bushing and hose bibb provided onto the tee on the equalizer tube. This hose bibb can be used to drain the equipment pack, and if a garden hose is attached between it and your water supply, it can help when priming the pumps. Be sure there is an anti-siphon valve in the water line to prevent fresh water contamination. Screw-on anti-siphon valves are available for easy installation on the house water spigot.

Install the two ells to the clear plastic pipe at the discharge outlets of the pumps, orienting them in the direction appropriate for your plumbing layout. Note that each ell has a pre-drilled hole so you can install the two air vent valves provided. These are necessary to bleed air from the lines during priming. Install the air vents at this time.

EQUIPMENT PACK PRELIMINARY ASSEMBLY



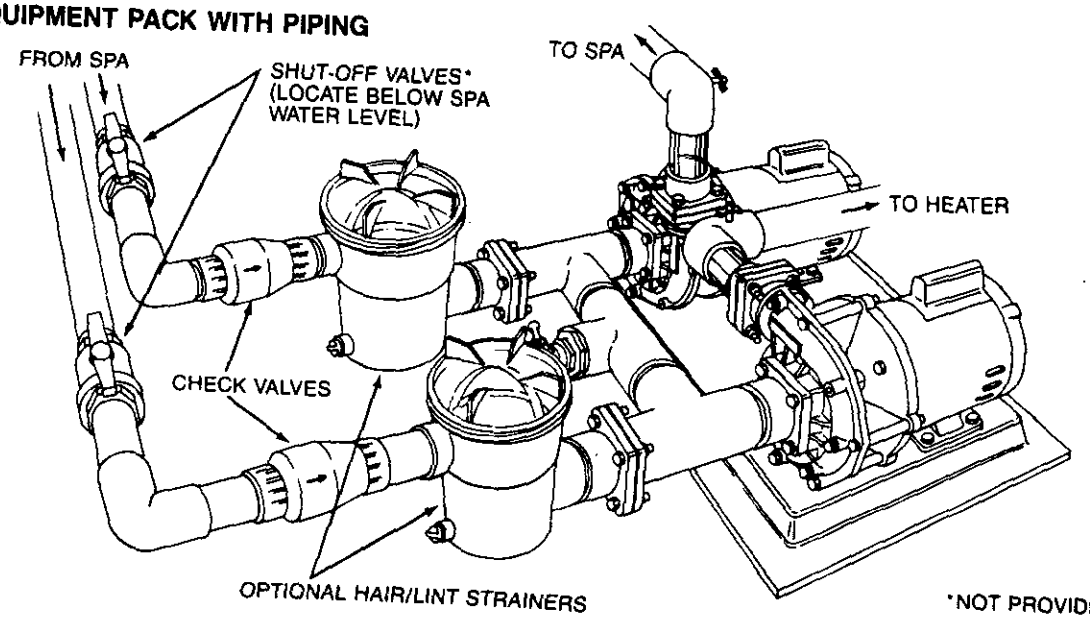
Interconnecting Piping

Plumbing lines between the equipment pack and the spa must not be longer than a total of 20 ft., including vertical and horizontal dimensions. Use 2" schedule 40 PVC pipe, with as few fittings as possible and bond with PVC solvent cement. When laying out plumbing lines, avoid making configurations which might cause air entrapment in the system. Four 2" shut-off valves (not provided) must be installed as close as possible to the equipment pack unit, below the spa water level, and accessible for normal operation and maintenance. We recommend that they be ball-type valves. Do not use excessive amounts of cement when bonding the valves to piping. Use pipe primer where required by local codes or when the air temperature during installation is below 70° F.

Install 2" check valves (swing type) supplied with the spa in the suction line to each pump. These aid in priming and prevent reverse flow through the heater/filter pump when only the whirlpool pump is running. The arrow on the side of the check valve must point in the direction of flow. If the base of the equipment pack is to be situated more than 20" higher than the bottom of the spa shell, locate the check valves in the vertical part of the lines, near the pump.

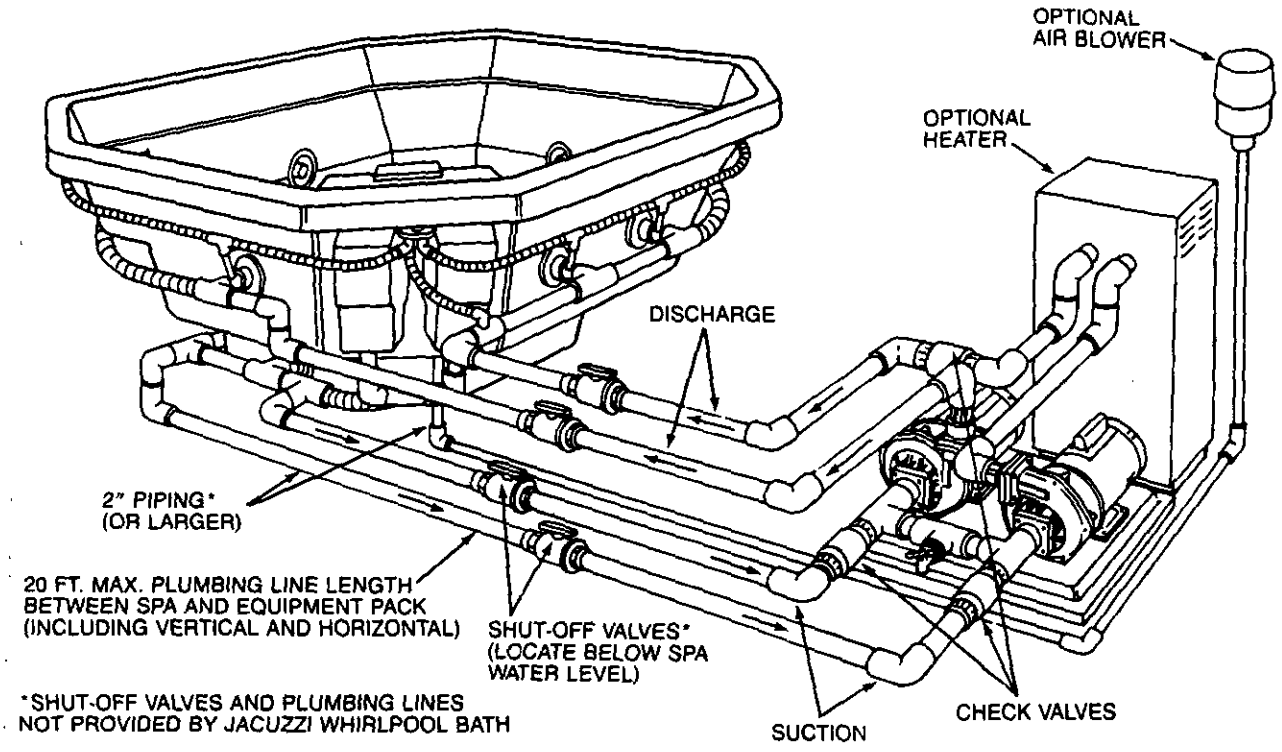
If your spa is to be located so the equipment pack is higher than the spa, we recommend that you install a hair and lint strainer (available as an option) in each suction line. The use of hair and lint strainers will aid in priming and will help to keep your spa water free of debris. Refer to the drawing in this section for proper installation, and to instructions provided with hair and lint strainers.

EQUIPMENT PACK WITH PIPING



*NOT PROVIDED

PLUMBING LAYOUT



Heater Plumbing

Use at least 4 ft. of copper pipe in the inlet and outlet plumbing of a gas heater (refer to local codes). Install a current collector in each water line to the heater if an electric heater is used. Piping should be 1½" or larger. You must install a swing check valve after heater discharge. To minimize performance loss, locate the heater no farther than 5 ft. away from the equipment pack and at the same elevation. Refer to heater manufacturer's instructions and the "Recommended Equipment Layout" on page 8.

Air Channel Plumbing

Use 2" PVC schedule 40 pipe for the plumbing line between the optional air blower and the 2" fitting located under the spa near the skimmer wall. See page 12 for detailed air blower instructions.

Automatic Chlorinators

There are several brands and types of automatic chlorinators available. Automatic chlorinators should be installed downstream of the heater (all types) with a check valve in the line to ensure that the chlorine solution does not enter the heater and cause corrosive damage. Your Jacuzzi Whirlpool Bath dealer will be glad to assist you in making your selection.

NOTE: Use of an automatic chlorinator does not ensure proper water quality. Check and adjust water quality frequently to prevent corrosive damage, which is not covered by the Jacuzzi Whirlpool Bath warranty.

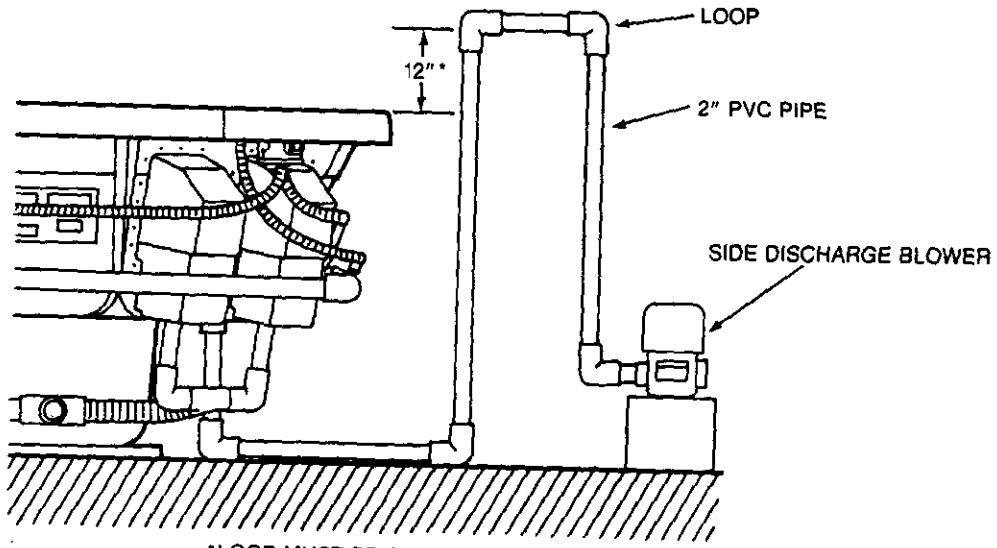
Optional Air Blower

A circular channel under the seat of your Meridian II receives air from the air blower and distributes the air through holes in the seat (to be drilled according to instructions on the following page). As the pressurized air is released from the holes, tiny bubbles are formed. These bubbles travel upward through the water and expand until they reach the surface, whereupon they burst. The visual effect of the bursting bubbles contributes to the overall hydromassage experience.

Consult your Jacuzzi Whirlpool Bath dealer for the air blowers available. The minimum rating of the air blower you use should be 110 cfm, 2.6 psi. For best performance, the blower you select should not exceed this rating by more than 10 percent. See the illustration on page 8 for its recommended location. A bottom discharge blower should be mounted directly onto a vertical 2" diameter PVC pipe (see illustration on this page). Side discharge blowers that are installed lower than 12" above the spa's rim must be plumbed with a loop, as illustrated on this page. Some air blower manufacturers recommend that a check valve also be installed, but use of a check valve instead of a loop is not recommended. Follow blower manufacturer's instructions when installing.

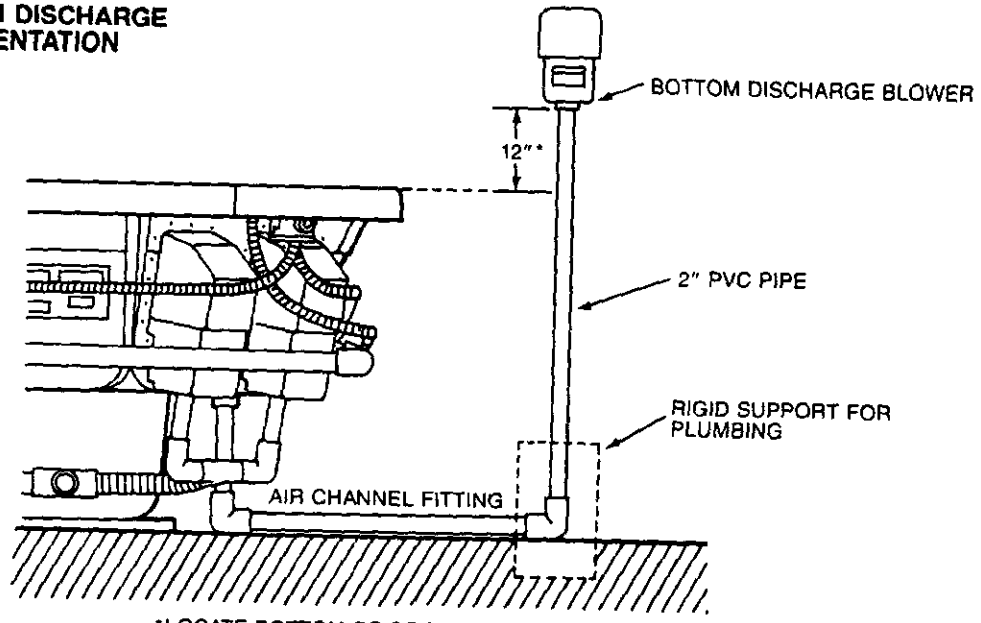
CAUTION: Wait 24 hours before turning on the air blower, as the PVC cement fumes remaining in the plumbing are flammable and may explode when the blower is started.

SIDE DISCHARGE BLOWER



*LOOP MUST BE AT LEAST 12" ABOVE SPA RIM

TYPICAL BOTTOM DISCHARGE AIR BLOWER ORIENTATION



*LOCATE BOTTOM OF OPTIONAL BLOWER 12" ABOVE TOP OF SPA RIM

Seat Air Holes

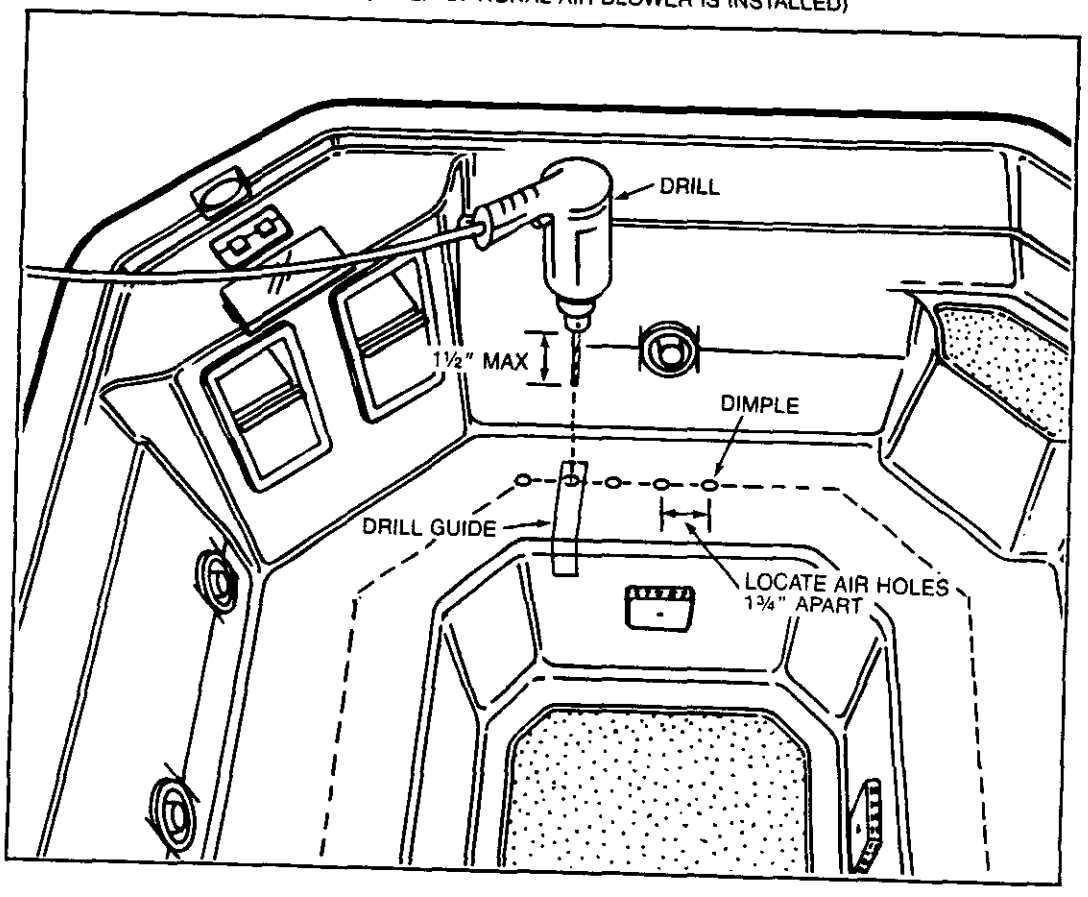
Because the air blower is an optional feature of the Meridian II, air holes are not factory drilled in the seat. Included with your spa is an air hole drill guide and a ⅛" diameter drill bit with which to drill the 100 holes required.* The drill guide is shaped to fit the contour of the spa. We recommend that you apply masking tape to the underside of the guide to avoid its scratching the spa surface.

Locate one of the 4 dimples imprinted in the surface of the seat. (The dimples indicate the center of the air channel located beneath the seat.) Using its center as a reference point, measure 1¾" to the right or left and mark the spot. Align the drill guide so that it fits the contour of the spa and is positioned against the footwell wall, and the hole is on the spot just marked.

Insert the drill bit provided into the drill chuck so that only 1" to 1½" of the drill bit extends out of the chuck. With the drill guide in place, insert the bit into the guide and proceed to drill with light pressure at low speed through the acrylic, increasing to high speed to drill through the fiberglass. Continue marking and drilling holes around the seat of the spa until all 100 holes are drilled at 1¾-inch intervals. (See illustration below.)

Use care when drilling! Failure to use the drill guide or drill bit provided may cause the bit to drill through the bottom of the air channel or cause permanent damage to the shell.

SEAT AIR HOLE DRILLING (WHEN OPTIONAL AIR BLOWER IS INSTALLED)

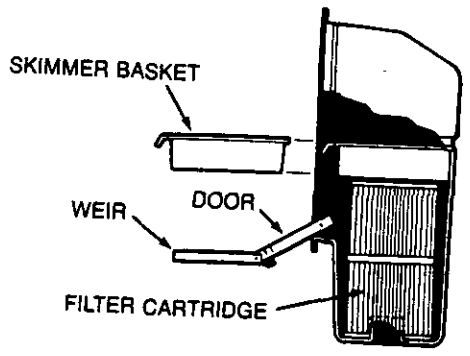


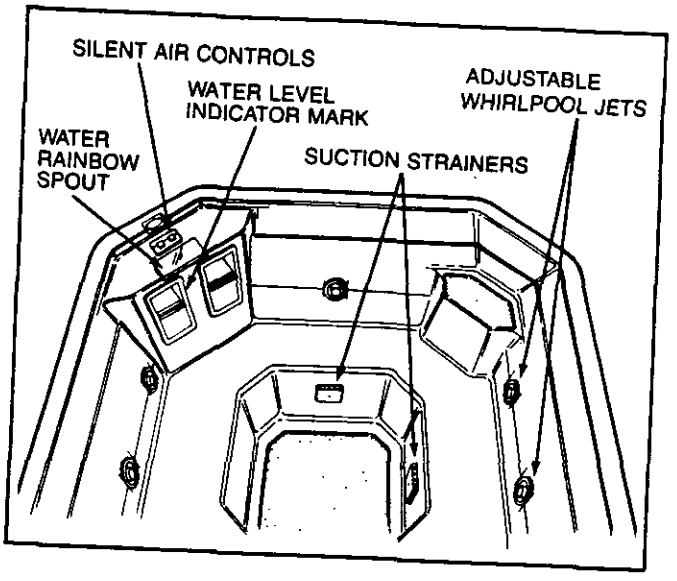
*Number and size of the holes may vary if a blower other than that recommended on page 12 is used.

Spa Set-Up

1. Remove the protective plastic rim cover on the spa. Use care. Stepping into the spa with shoes will scratch the acrylic surface.
2. Remove any packing materials from the spa.
3. Remove each filter cartridge and skimmer basket from plastic bags.
4. Pull open each skimmer/filter door by the handle located in the middle of the door and insert the filter cartridge into the filter housing and insert the skimmer basket so it is in place over the filter cartridge. Then close the skimmer/filter door.
5. Clean the interior of the spa of any remaining construction debris. Remove stubborn stains, paint, or tar with turpentine, isopropyl alcohol or paint thinner. A mild liquid dishwashing detergent on a damp cloth is fine for cleaning off other dirt. Plaster can be removed by scraping with a wooden edge; do not use a metal scraper, wire brush, or other metal tools, as they will damage the spa's surface.

FRONT ACCESS SKIMMER/FILTER



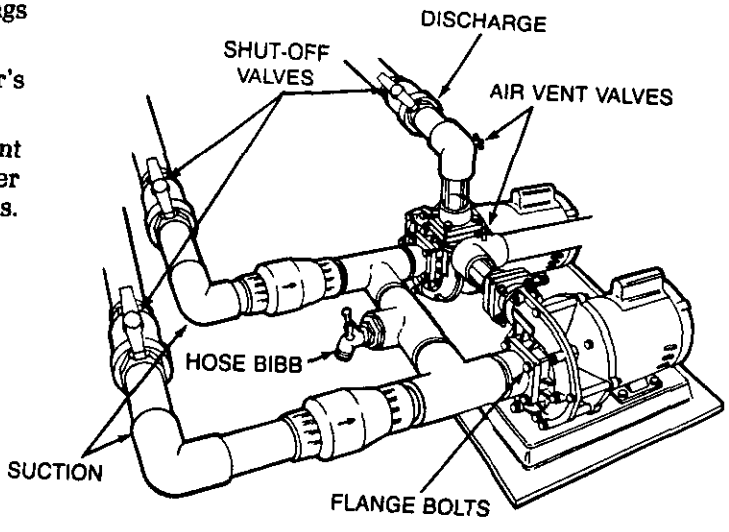


Equipment Pack Set-Up

1. Turn off all power to the equipment pack by turning off circuit breakers at the main service panel.

   CAUTION: Always turn off power at the service panel before priming, draining the spa, or performing any equipment maintenance.

   At no time should the whirlpool or filter pump be activated until the pumps are primed and the spa is filled with water to its normal operating level (to the water level indicator mark on the skimmer/filter frame). Running either pump dry will cause irreparable damage to the pump, and the warranty will become void.
2. Make sure flange bolts at pumps are secured tightly.
4. Follow Priming Procedure I or II, depending on installation type, and check pipes, pumps, and fittings for leaks.
5. Set thermostats at heater (see heater manufacturer's operating instructions).
6. Test for proper water chemistry; then add treatment chemicals to assure the proper level. See "Water Quality" section of Operating Instructions for details.



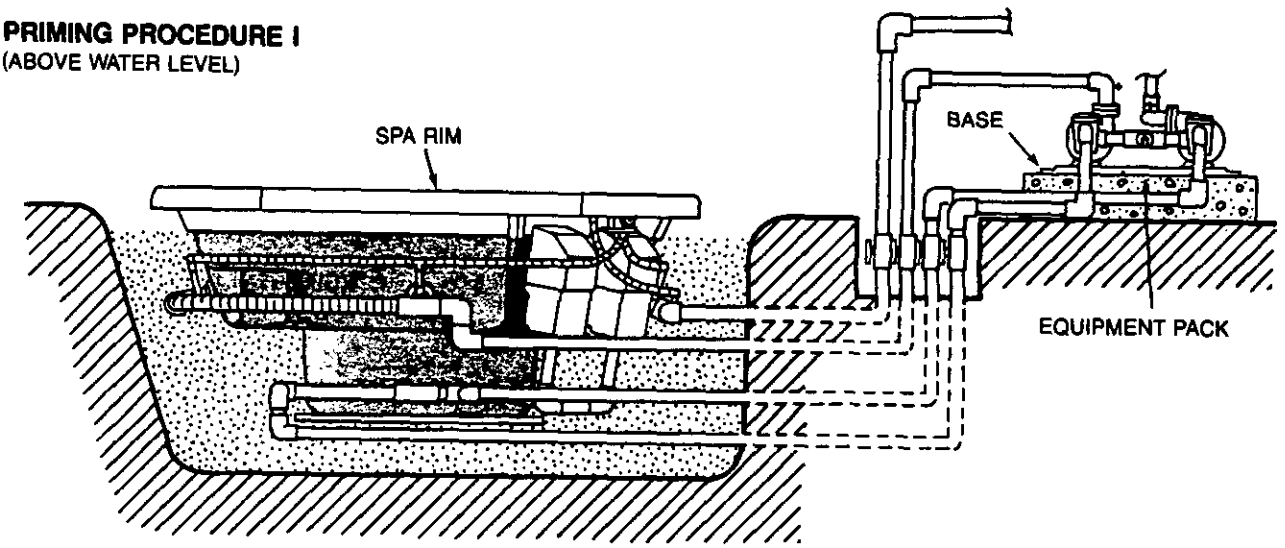
Priming Procedure I

Use this priming procedure if your installation is such that the base of the equipment pack is level with or above the rim of the spa (see illustration).

1. Turn all switches to OFF. Turn OFF circuit breakers at service panel.
2. Open the air vent valves on the plastic elbows.
3. Fill the spa with water with a garden hose to the spa's normal operating level, which is at the water level indicator mark on the filter/skimmer frame.
4. Close the four shut-off valves in the suction and discharge plumbing.
5. Connect hose to hose bibb on equalizer tube between the two pumps. (Make sure anti-siphon valve is installed to prevent contamination of the water supply.)
6. Open the hose bibb and fill the piping system with water until water can be seen through clear pipes on discharge piping.
7. Close air vent valves when water starts to flow from them.
8. Close hose bibb and disconnect hose.
9. Open four shut-off valves in suction and discharge piping.
10. Turn ON circuit breakers at the service panel.
11. Turn on pumps one at a time.

***Important:* If either pump is not visibly pumping water at this point, turn off the motor immediately.** Then repeat priming procedure steps. (Failure to prime after several attempts might indicate the need to install hair and lint strainers in the suction lines.)

PRIMING PROCEDURE I
(ABOVE WATER LEVEL)



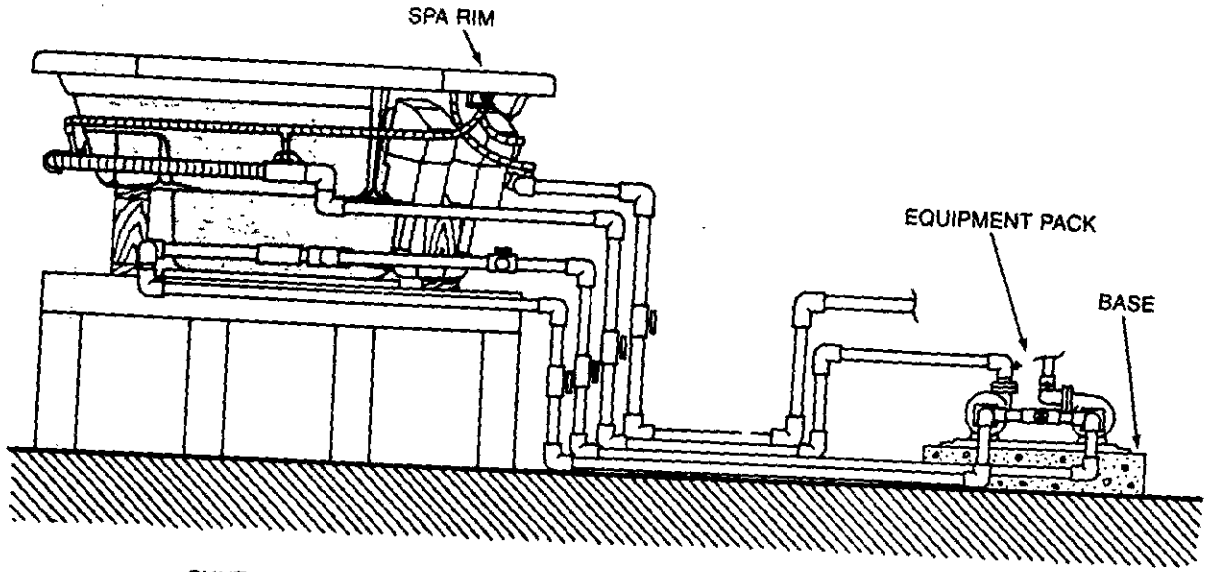
SHUT-OFF VALVES AND PIPING NOT PROVIDED BY JACUZZI WHIRLPOOL BATH

Priming Procedure II

Use this priming procedure if your installation is such that the base of the equipment pack is lower than the rim of the spa (see illustration).

1. Turn all switches to OFF. Turn OFF circuit breakers at service panel.
2. Open shut-off valves in the suction and discharge system plumbing.
3. Open the air vents in the plastic elbows.
4. Close the hose bibb located in the equalizer tube between suction lines.
5. Fill the spa with water using a garden hose up to its normal operating level, which is at the water indicator mark on the skimmer/filter frame. As the water level in the spa rises, it will bleed air out of the vent valves.
6. Close the air vent valves on the elbows when water flows from them.
7. Turn on the circuit breaker at the service panel.
8. Turn on the pumps one at a time.

PRIMING PROCEDURE II
(BELOW WATER LEVEL)



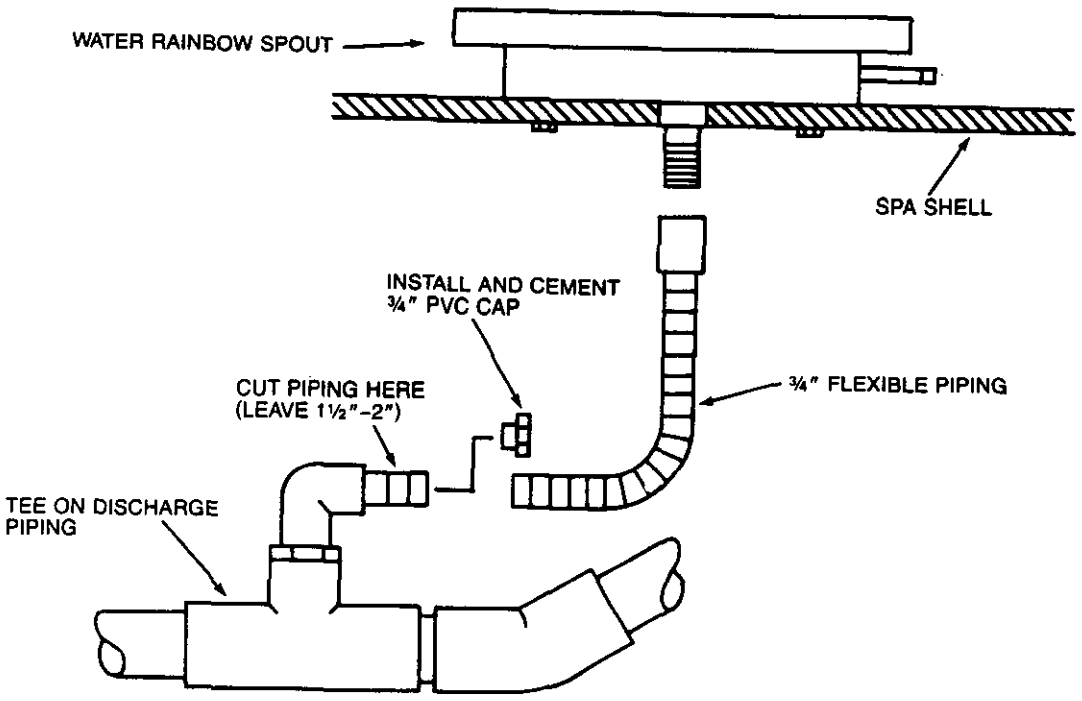
SHUT-OFF VALVES AND PIPING NOT PROVIDED BY JACUZZI WHIRLPOOL BATH

Alternate Use of Water Rainbow Spout as Fill Spout

You can use your Water Rainbow spout as a fill spout by permanently plumbing it to a fresh water supply if local codes permit. Local plumbing codes may require the use of an anti-siphon valve for such a connection. **Do not interconnect water supply with recirculating system of the spa.**

To make the connections necessary to use the Water Rainbow as a fill spout, follow this procedure:

- Make sure power to the equipment pack is disconnected and spa is drained to below seat level.
- Cut ¾" flexible piping as shown in illustration below and unscrew connecting fitting at spout.
- Cap off piping by cementing a ¾" PVC cap where cut has been made.
- Connect permanent plumbing line to the spout.



PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
USE INSTALLATION INSTRUCTIONS SUPPLIED WITH PRODUCT.

Jacuzzi Whirlpool Bath has obtained applicable code (standards) listings generally available on a national basis for products of this type. It is the responsibility of the installer/owner to determine specific local code compliance prior to installation of the product. Jacuzzi Whirlpool Bath makes no representation or warranty regarding, and will not be responsible for any code compliance.

JACUZZI WHIRLPOOL BATH
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KIDDE

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