Assembly and maintenance instructions for hot tub

WARNING!

We guarantee that our SpaDealers Hot Tubs will fulfill our high-quality standards only if assembled according to the given instructions. In order to gain a visual understanding we recommend that you first view the animated instructions found on the enclosed DVD. Then read the assembly instructions carefully. The purchaser is responsible for ensuring that this procedure is followed even if assembly is made by a third party. If you still feel unsure, please contact our customer service department.

Special attention must be paid to the following:

1. All wooden parts must be stored at a dry location and be dry during assembly. Never assemble in the rain or when humidity is high.
2. Separate instructions must be followed when assembling the base. See “Base assembly”.
3. During assembly, the midsection of the stave must touch the outside of the line marked on the base and the joints must be tight. The line will then be slightly outside the outer edge of the stave. Picture 4.
4. Use silicone on threads and underneath the gaskets on the top of all wall fittings.
5. Make sure you note where the stave with the hole for the surface water cleaner (skimmer) must be placed. **See “Explanation for the base connections and side staves.”**

Visit our website for more information about our hot tubs and accessories

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spadealers.e

Ver. 2023-06-16

Thank you for choosing a SpaDealers Hot Tub. We try to do our utmost to ensure that you will be satisfied with our products. If you have any queries, please contact us at +358-(0)10-239 5600 or info@spadealers.fi

The following parts are included in the SpaDealers HT150 Hot Tub kit:

- base in 3 parts (box 1)
- 3 pcs. support legs (box 2)
- 56 pcs staves, 2 pcs extra (box 3,4,5,6), box 6 contains stave for connection pipes (does not apply to City-Tub).
- removable benches (6 pcs bench supports + 6 pcs seats), plastic supports, screws, 4,2x55mm (48 pcs) , 4,2x60mm (10pcs), 2 pcs stainless steel hoops 0.5 x 50 mm, 2 pcs M12 x 80 with screws and washers (box 7)

The SpaDealers HT180 Hot Tub kit differs in the following ways:

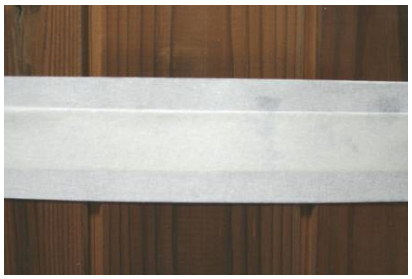
- 56 pcs staves, 2 pcs extra (box 3,4,5,6), box 6 contains stave for connection pipes(does not apply to City-Tub).
- removable benches (8 pcs bench supports + 8 pcs seats), plastic supports, screws, 4,2x55mm (60 pcs), 4,2x60mm (10pcs), 2 pcs stainless steel hoops 0.5 x 50 mm, 2 pcs M12 x 80 with screws and washers (box 7)

MAINTENANCE

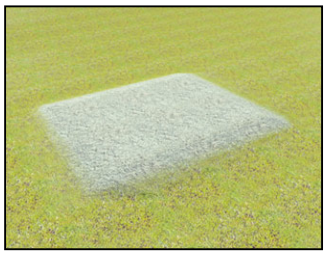
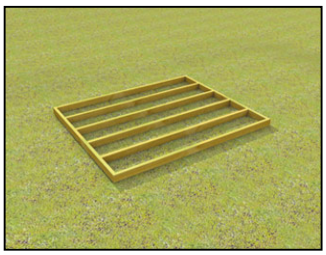
The wood on the outside must be treated with wood oil annually. The oil must be suitable for hard wood or heat treated wood and provide UV protection. It would be also good if it contains a slight brownish nuance in order to provide more protection. The easiest method is to do the first treatment while assembling the Hot Tub but before the stainless steel hoops will be put on. This will avoid having to consider how to protect the hoops.

Annual oil treatment

Cover the stainless steel loop with tape as shown in the picture. As soon as the oil treatment has been finished remove the tape immediately. We recommend that the sawn ends be treated with a water resistant oil or boat varnish. If your SpaDealers Hot Tub is treated correctly, it will last for many years.

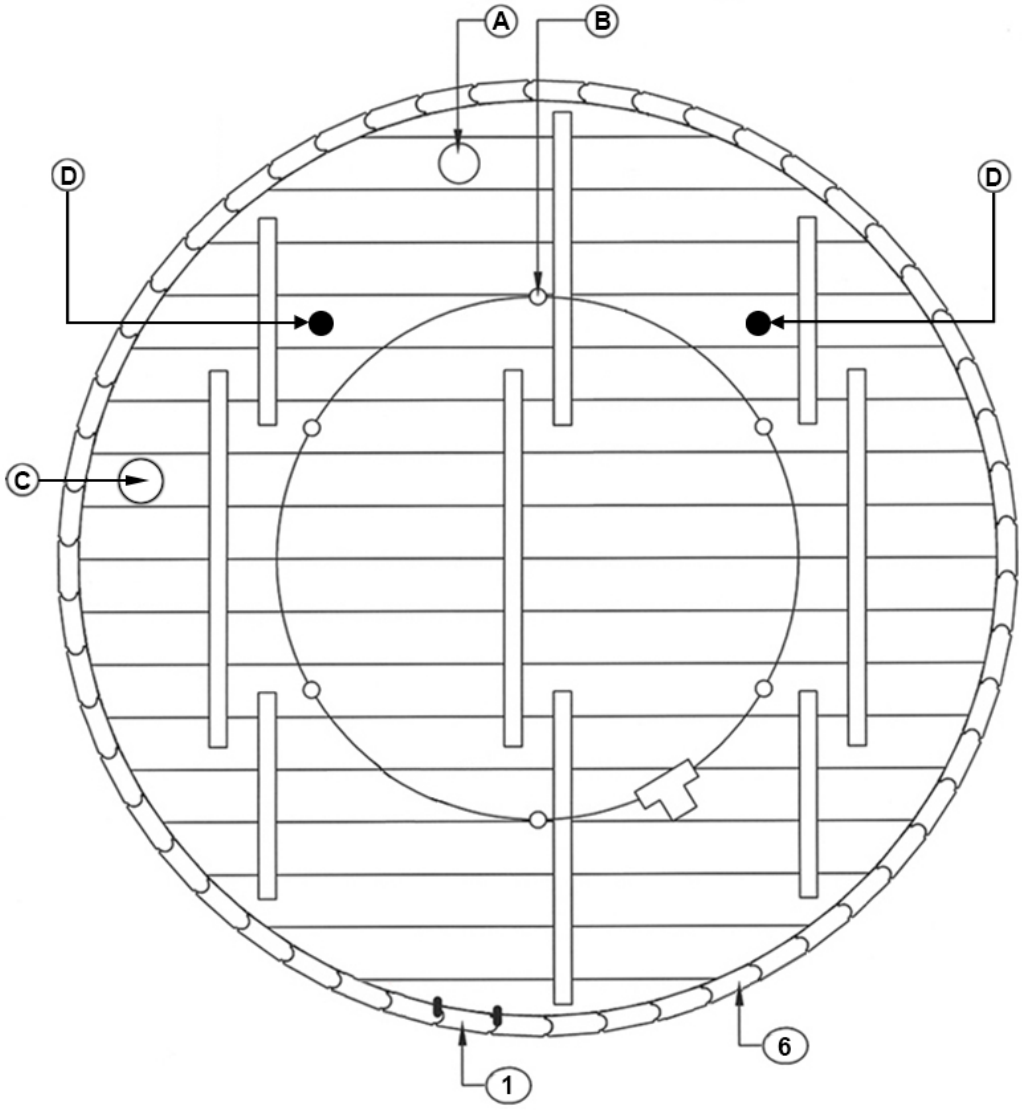


Place the Hot Tub on a stable base and not directly on the ground.
Foundation and placement options

A Hot Tub can be placed anywhere outdoors, even in densely populated areas. The foundation on which the Tub stands must be stable, and can be built using either a wooden frame, concrete base or a compacted gravel bed. The Hot Tub cannot be placed directly on grass.

Explanation for the base connections and side staves



The picture shows the Hot Tub from below and illustrates the different connection points. Some of these connections are only utilised if accessories are connected. Stave 1 isn't included with City-Tub.

The numbers show the staves that differ from the others.

1. Stave with a groove for the bottom pipe. There is also a hole for the upper pipe in this stave if a wood burning heater is to be used. The first stave must be assembled between the points marked on the base.

6. Make sure that the stave with the hole for the surface water cleaner (skimmer used for filtration) is the sixth stave from stave **1** (including stave **1**). The hoop openings that shall be around 40mm will also be placed here.

Letters:

- **A.** Hole for connection to the bottom pipe going either to the wood heater or pump.
- **B.** Air jet holes for the bubble system (accessory for the Basic model)
- **C.** Hole for the suction side base connection to filtration (accessory).
- **D.** Connection points for inlet and outlet for gas heater.

Assembly instructions for the base sections

Differences in humidity and temperature can cause a certain amount of distortion of the material when storing the Hot Tub base sections. This must be taken into consideration during assembly. The side sections must be placed tightly to the midsection. The included hoop can be used for tightening the sections.

Base assembly (see below for additional instructions)
Place the central base section on the "assembly support".

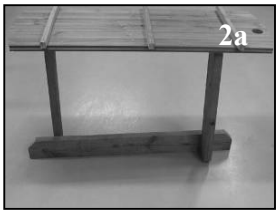
Do as follows!

Start at one edge and tighten the outermost screw according to Picture 1. Do the same procedure in the middle, Picture 2, and with the other edge in this order. Next tighten the rest of the screws and follow the same procedure with the other side section. Accuracy during assembly of the base section is the key to a watertight result.

Before proceeding with the above, complete the assembly supports:

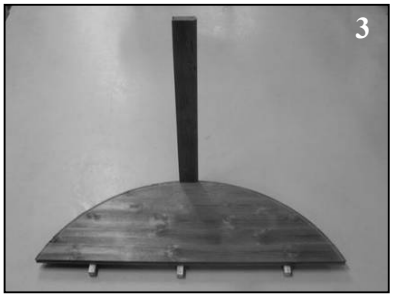
The Hot Tub should be assembled upside down. The support legs can be used as an "assembly support" on top of which the base will be placed. Assemble the support legs by screwing the shorter legs onto the longer leg, where the predrilled holes are located. The easiest way to do this is when there is a stable support behind, e.g. a wall. **Picture 2 & 2a.**

Picture 3. A stave should now be assembled in the middle position of each outer base section.



Picture 3. This stave will provide support when these sections are connected to the central base section. Screw the outer base sections to the central base section **(Picture 4)**.

Picture 6. Make sure that the outer sections are straight (no gaps between the joints). If two people are building the Hot Tub, the base section can be assembled on the floor before lifting onto the "assembly support".
This stave will provide support when these sections are connected to the central base section. Screw the outer base sections to the central base section. **See Picture 1 & 4.**



Picture 4. Make sure that the outer sections are straight (no gaps between the joints). If two people are building the Hot Tub, the base section can be assembled on the floor before lifting onto the "assembly support".

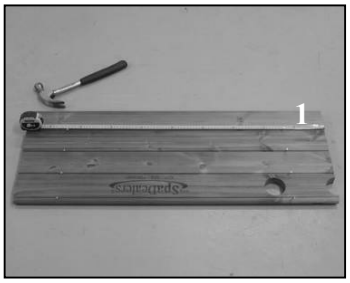
Assembly instructions for the SpaDealers HT150 Hot Tub

Checklist for the most important assembly phases

- ❑ Staves have been oiled on the outside, page 2 “MAINTENANCE”
- ❑ Instructions on base connections are understood, page 3
- ❑ Hoops are nailed according to Picture 1
- ❑ Base section has been assembled according to instructions on page 4
- ❑ Staves have been assembled according to instructions and Pictures 2-4
- ❑ Hoops have in placed in the correct position according to point 1 or 6 in the instructions on base connections, page 3
- ❑ Silicon has been used to seal connections

MAKE SURE THAT ALL THE BOXES, 1–7, ARE INCLUDED IN DELIVERY.
FOLLOW THE ASSEMBLY INSTRUCTIONS EXACTLY TO ENSURE THAT THE BUILDING PHASE RUNS EASILY AND SMOOTHLY!!

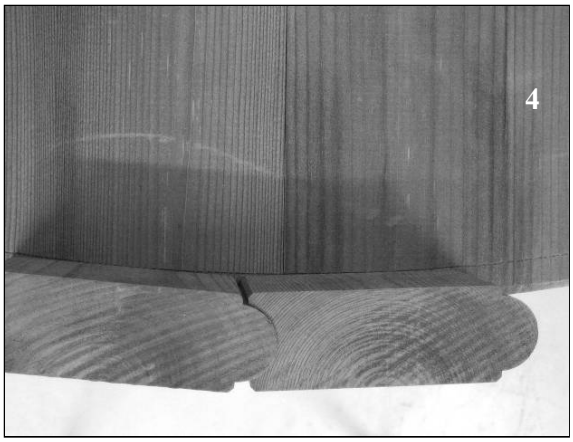
Place 4 staves together on the ground. One stave must have the water connection holes (found in box number 6). **Does not apply to City-Tub.**



Nail 2 small guidance nails in the male end of one stave in order to mark the location where the hoops will be positioned later, 14 cm and 84 cm from the bottom end of each stave. **Picture 1.**

Stave assembly

The stave assembly commences by placing the stave with the groove* between the marks on the base. **Picture 2.** See also step 1, page 3. Use a rubber mallet to position the stave correctly. Assemble the staves in an anti-clockwise direction, so that the groove part of each stave is positioned into the tongue of the previously positioned stave. **Picture 3**. Four staves containing nails for the hoop positions should be positioned 90° to each other. IMPORTANT! The staves must follow the outside of the line along the base and the joints must be tight. **Picture 4**. **See also step 3, page 1.**

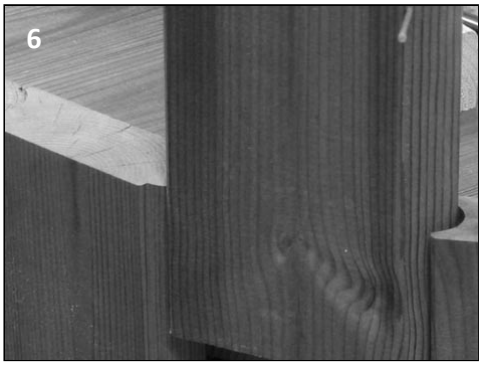


* = Does not apply to City-Tub

Note that the positioning of the staves may require adjustment at a later stage. See the instructions on “adjustment”.

Attach the base plug before attaching the staves at that particular section, in order to make plug tightening easier. **Picture 5.**

Lift the Hot Tub and carefully remove the “support legs” before the ten remaining staves are assembled.



Picture shows connection for wood heater

Adjustment
If the “opening” for the last stave is too large, more than 10 mm larger than the stave (between the joints), all the other staves must be moved inside the marked base line. If the gap is smaller than the last stave, the other staves must be moved in the opposite direction.

Do like this if the gap is too large:

- Measure the gap and calculate how much each stave must be adjusted compared to the line. Example: Use the following equation for a gap of 15 mm: 15 / 3.14 = 4.8 mm. Each stave must be moved half of the total over the line (towards the centre), i.e. 2.5 mm approx.

Do like this if the gap is too small

- Example: The gap where the stave should be placed is only 77 mm whilst the stave is 87 mm. The difference is 10 mm. Use the following equation to calculate the adjustment: 10 / 3.14 = 3,18 mm. Each stave must be moved half of the total over the line (towards the edge), i.e. 1.6 mm approx.

If the gap is the same size as the last stave, or only slightly larger or smaller, carefully bend out the two adjacent staves slightly to allow the last stave to be slid in from above. Picture 6.

Assembly of hoops and support legs

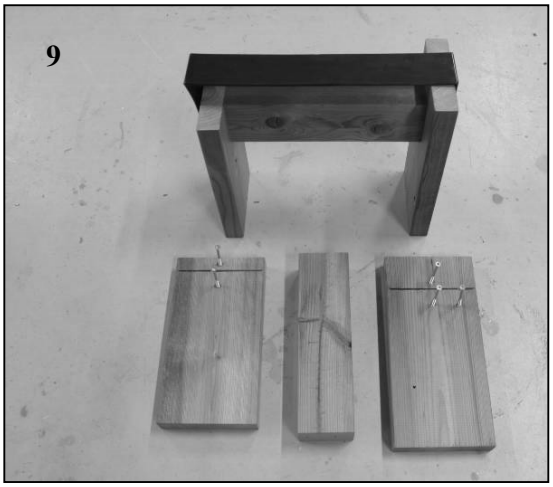
The hoops must now be placed after all the staves have been positioned correctly. **Picture 7.** This task might require two people. First position the lower hoop. Let it rest on the guidance nails. The “opening” must be placed to the right of stave 1. **Picture 7.** See step 6, page 3. Use included bolts and nuts to tighten the hoops. Repeat the process with the upper hoop (during assembly this is the lower hoop). Do not tighten everything at once. During tightening, walk around the tub hitting the hoop with a rubber mallet in order to ensure that all the staves are fitted as tightly together as possible. This is particularly important close to the base.

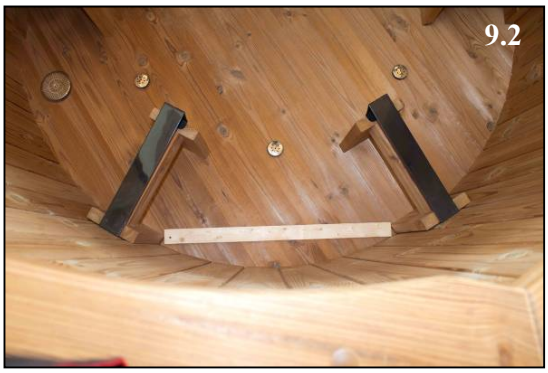
Now the support legs can be attached. If the "assembly support" has not been removed previously, do it now. Raise the tub to make it possible to remove the "assembly support" and disassemble it. Next, place the separated supports under the tub. The longest support should be placed in the centre. Attach them with screws. Predrilled can be found for the screws (4.5 x 60 mm). **Picture 8.**

Before turning the tub over (base downwards), it is recommended to place something soft under the edge that will be touching the ground as the tub is turned. Otherwise, there will be a risk that small wooden pieces will break-off from the edge.

Benches

All the material for the benches is delivered unassembled consisting of bench supports, seats and holders. First, screw the six supports together according to **picture 9**. Place the included screws in the predrilled holes in order to attach the central section. Don't over-tighten, since there is a risk of splitting. The grooves for the holder in the support legs must face outwards. Press the curved end of the holder with the shorter lip onto the longer support leg that will be placed towards the centre of the tub.





First place the bench support between the two lines that are marked on the base. Place the left side of the support by the line to the right of the drain hole. Attach the support using 2 screws in the predrilled holes. **Picture 9.1**. Don't over-tighten. Use the included "wooden ruler" to mark where the other supports should be placed. **Picture 9.2**. Reposition the supports if the distance between the last supports are not equal. Attach with screws. The seats can now be put in place on the supports and can be "locked" into position using the holder. **Picture 9.3**.

Sharp edges

The upper edge of the staves can be sanded using coarse sandpaper in order to remove any rough edges. We recommend that all edges be oiled using water resistant oil or varnish for boats. Please read separate instruction. Place the Hot Tub on a stable foundation, and not directly on the ground. Careful maintenance of your SpaDealers Hot Tub will ensure you have many years of bathing pleasure.

Have fun!

Water use and energy!

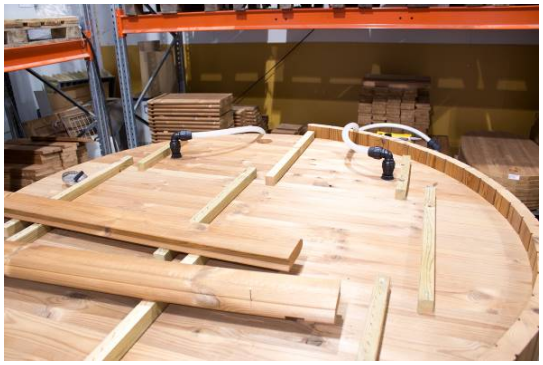
Remember that the water level will rise by approx. 5 cm when an average-sized person sits in the Hot Tub. This is equivalent to 80 litres of water. If there are 4 individuals using the Hot Tub, the water level can be 20 cm below the edge when empty. The total amount of water to heat up is subsequently reduced by 320 litres. If the Hot Tub is completely filled, this amount of water will fall over the side when the users sit down.

Assembly of inlet and outlets for gas heater (City-Tub only)

See also “stave assembly”, page 5.

Attach the inlet and outlet for the gas heater in the bottom

Attach the hose to the connections



Assembly of drainage hose for City-Tub

Apply silicone

Smear it out in the threads

Screw the connection in place

Assembly of heat shield for gas heater

The plywood sheet sits between the heat shield and the tub

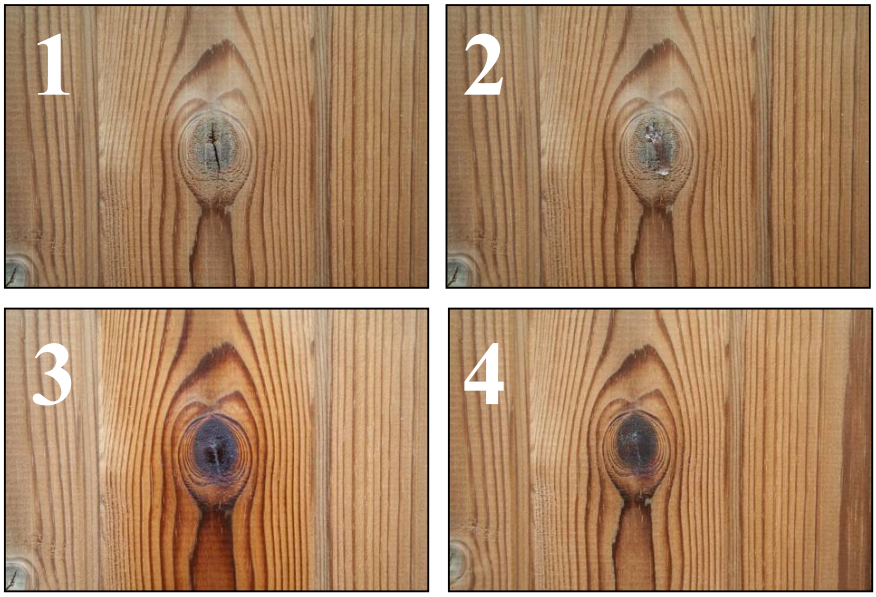
Center the heat shield against the middlemost stave and the bottom of the lower steel band.

The heater is hung from the top screw that is not screwed in all the way

Measure where to cut the hose, the hose should not be tight

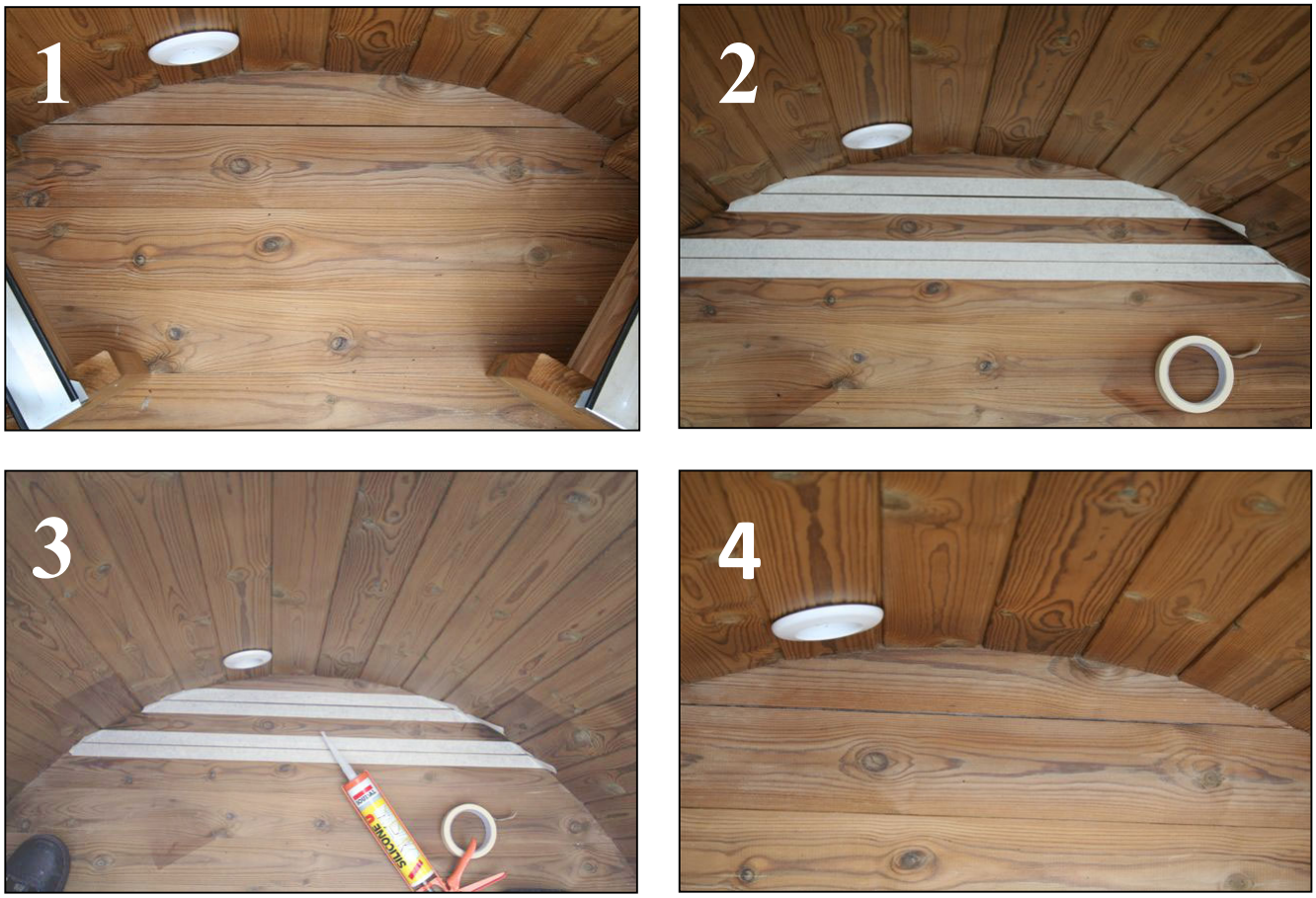
Example tub with protective box (accessory)

Leakage free from the beginning



The pictures show how a knot can be corrected from the inside if necessary. To be sure no leakages will occur in for instance knots this section will show a way to quickly rectify potential leakages. It is best to do this procedure before starting the assembly. But it is not necessary since healthy knots swell up quite fast, but for the person who wants a hot tub without any leakages at all this is a simple method to ensure that. Fill the knots with a mold resistant transparent silicone and even out with your finger tips. To remove excess silicone turpentine can be used.

If there are gaps between the joints of the base this can cause leakages. The cause of this can be carelessness during assembly of the base or some other cause that resulted in the staves of the bottom moving. This is easily fixed with silicone or sikaflex. The pictures illustrate how it's done.



Water leakage and maintenance of heat treated wooden Hot Tubs

It is normal that a Hot Tub will leak at the beginning and this should not be a cause for concern. Wood as a material swells in water and shrinks when dry. One large advantage with heat treated wood is that it swells and shrinks much less than normal wood. This explains why there should not be any problems caused by swelling and shrinkage under normal conditions. The hoops should not need to be adjusted when heat treated wood has been used as a material, as would be the case if normal pine or spruce were used instead. However, there might still be a certain amount of leakage, even though the swelling pressure should seal any leaks. Although there can be many reasons to explain the cause of leaks, most are easy to fix. Here we describe the most common ways to fix certain types of leaks:

1. A leakage can be seen as water dripping or running on the outside of the stave (next to the base). The easiest way to fix this is by drilling a circa. 8 mm hole at a 45º angle from the inside where the staves meet the base (where the leak can be seen; normally where the staves are joined). Drill until you feel that the drill has penetrated through the wood to the groove in the stave. This is approx. 20 mm. Next, simply place a sealing agent, like silicone, in the hole. Press the sealing agent firmly to ensure all the spaces have been filled.

2. Knots in the wood can occasionally cause small leaks, which can be easily fixed. Mark the holes, e.g. with tape, when there is still water in the Hot Tub. Empty the water, at least until under the leakage location. Fill with sealing agent and “smooth” with your thumb. Use turpentine or similar to remove extra sealing agent. Leakage free from the beginning, see page 11.

3. If there are gaps between the joints of the base this can cause leakages. The cause of this can be carelessness during assembly of the base or some other cause that resulted in the staves of the bottom moving. This is easily fixed with silicone or sikaflex. See page 11 for examples. On rare occasions, the base can also leak if it has dried too much and split. This can be fixed either from inside the Hot Tub or from underneath. The advantage with the latter method of repair is that the sealing agent will not be seen.

Note! It is normal that our Hot Tubs will leak slightly (approximately 10 litres) during the first few hours of use. “Severe” leakage can be fixed according to the instructions given above.

Maintenance

Read separate instructions in the assembly section. See page 2.

WE HOPE YOU EXPERIENCE MANY FINE MOMENTS
IN YOUR HOT TUB FROM SPADEALERS

Common purchase- / delivery- and guarantee conditions

Terms of payment
Terms of payment can vary and the buyer who has been granted credit has time to make the payment according to a separate agreement. If the payment is not made at the agreed time, the seller has the right to charge interest on the overdue payment. Continuous overdue payments can lead to recovery and costs incurred. Delivered goods will remain the seller's property until full payment has been made by the buyer.

Terms of delivery and packing
All deliveries are made ex works Korsnäs if nothing else has been agreed upon. In some cases, costs for packing are added on.

Delivery times
Normally products available in the store are delivered within 7 working days from order. Delivery times for other ordered goods are according to agreement. No part-deliveries are made without a separate agreement on this.

Advance orders
The seller and buyer can agree that certain goods are delivered at a certain time that is different to the normal delivery time. If this time is longer than 4 weeks, the buyer must every started new month pay 10% of the agreed sum to the account given by the seller when the product is ordered. The seller is then guaranteeing that the agreed price is valid. Even if the seller tries to meet the customer's wishes according to the day of delivery, it is the buyer's responsibility to check that this plan can be followed. The buyer shall then contact the seller at least one week before the expected delivery date. If the buyer would like to move the delivery day forward or backwards, the same conditions should be fulfilled.

Delay
If a delay occurs for the buyer to receive the goods at the agreed delivery date, the goods are deemed to have been delivered – provided it is ready for delivery - and the invoice can be made according to normal terms of payment. However, the seller has the obligation to store the goods if he has space for them. Compensation for this is a reasonable sum agreed upon between the seller and buyer. The seller is not responsible for any potential damage risk on the goods during the time it is stored for the buyer.

Transportation responsibility
The haulage firm is responsible for the goods until it has reached the buyer's delivery address according to the responsibility definitions of the haulage firm. Potential transport damage or missing goods, if this has been observed, is noted on the consignment note before receiving the goods. The haulage firm and the seller must be informed within 7 days.

Freight costs

Normally all costs for freight should be paid by the buyer. If a freight cost is offered this includes loading of the hot tub at the seller as well as the normal transport to the customer. Potential unloading or other unknown reasons which means additional costs for the seller will be invoiced if there has not been such agreement in writing from the beginning that the seller is taking care of those specific costs.

Freight
If freight costs are included in the sales price, they will be applying only to the loading at SpaDealers as well as the transport to the consignee. Unloading or other additional costs, the customer will be charged for those by SpaDealers afterwards if no other agreement is existent.

Assembly
Assembly costs include that the product will be assembled as much as possible in advance. Still, on-site

installation of electric,water and similar things cannot be done in advance and therefore are those not included in the assembly costs.

Guarantee claims
All guarantee claims concerning delivery must be made within 7 days after the arrival of the goods. Guarantee claims in writing must be made to info@spadealers.fi with information on the order number or invoice number. Guarantee claims must be approved by the seller (in writing).

Return of goods
Returns approved by the seller must be returned to the seller's address and the freight must be paid by the buyer. On condition that the goods are returned unused and in perfect condition, they will be credited to their full value. Before returning goods, a return number for the consignment must be agreed upon with the seller. At our home page you will find a return form (RPP-form), which must be filled in and enclosed with the returned goods. Also mark the goods with the return number. The seller should under no circumstances have to pay for receiving returned goods.

Prices and export
The prices can be seen in the price list and cover delivery and order rates up to the next price adjustment time. The prices do not include VAT, other possible taxes or fees. Nor are the extra export package prices included, if not especially mentioned, as well as customer fees, insurance, landing fees, documentation or similar costs. In case of force majeure, wrong delivery from subcontractors, change of currency situation etc, that affect the agreed prices and the completion of the delivery, the prices on the delivery day are in force and the seller informs the buyer so that the buyer will have an opportunity to cancel the purchase.

Dispute
Any potential disputes between the buyer and seller concerning the delivery, do not free the buyer from his responsibility to pay according to the agreement. Potential disputes should be handled by arbitrators or a court of law.

Provisio clause
We reserve the right to change constructions, dimensions and designations concerning the seller's products without previous notice. We make a reservation against potential printer errors.

Instructions for RPP form (Return Product Permission)

If you have agreed with a SpaDealers retailer to return a product (guarantee, repair, wrong order etc.), you will have received an RPP number from him. Then you fill in the RPP form found under the link below and attach a copy together with the product. Don't forget to mark the packing and the product with the RPP number.

After filling in the form it is very important to always describe **in detail** what is wrong and **how it can be noticed**. The better information we get, the faster the matter can be handled. Do not use general information like "broken", or similar.

Retuned products must be well packed. The seller won't refund damage caused by bad/wrong packing.

General guarantee for SpaDealers products

The seller guarantees that goods delivered to the first buyer have 2 years guarantee against material and manufacturing faults counted from the delivery date.

Guarantee 2 years

-control system and pumps
The guarantee covers technical defects due to material and/or manufacturing defects.
-pipe, bubble system, massage system
The guarantee covers leakage, material and/or manufacturing defects on hoses, nozzles and control system.
- **filtration / ozone / UV-cleaning**
The guarantee covers material and/or manufacturing defects. Changeable filters or ozone cartridges/UV lamps are not included in the guarantee.
- underwater lighting including transformer
The guarantee does not cover lamps and other light sources that can break under normal use.
- insulated lids made of artificial leather
The guarantee includes material and manufacturing faults. Possible colour changes caused by UV-radiation are not included in the guarantee

NOTE! Divergent from the text above, the guarantee period for products in commercial use is 6 months.

What the guarantee does not cover
The guarantee does not cover damage that is a result of careless use, secondary damage caused by careless use, incorrect installation, product modifications, and weather phenomena beyond our control. Whenever possible, it is the owner's responsibility to take the necessary precautions to prevent damage either from occurring or worsening. The guarantee does not include any eventual defects that are typical for wooden products. This includes moisture expansion, colour changes, cracks etc. which the owner can control by carrying out the correct maintenance as explained in the manufacturer's recommendations. Abnormal leakages, due to material and/or manufacturing defects, are covered in this guarantee.

Possible freezing damage that occurs after delivery is not included in the guarantee. It is always the user who must prevent freezing damage from occurring. This is in force both before and after installation. Examples of procedures can be read in the instructions and the seller can also provide advice if needed.

Assembly
The responsibility lies with the person doing the assembly and it is the seller's responsibility to ensure that his assembly follows our directives. We cannot be responsible for problems as a result of wrong assembly made by another party.

Chemicals
The guarantee does not include problems caused by misuse of chemicals. The buyer should follow the given recommendations, and in unclear cases he should ask the seller for advice.

Guarantee actions and costs
No costs are incurred for work or parts covered by the guarantee. Eventual repairs can either be made on site or at the deliverer's. It is the buyer's responsibility to make sure that the product is reachable for a service engineer. Time used for demounting and remounting of the deck, for example, is debited according to a separate rate. If it is a question of measures that require specialist skills, it can be fixed through "telephone support" or in another similar way. The buyer must accept such a way of working, since it is based on the seller's experience of repairs. If the seller requires information, for example pictures, to make it easier to analyse a situation, then the buyer should provide this. The seller's responsibility is limited to delivery of new goods, repair or certain refund of the purchase-sum according to the seller's choice. The seller cannot be held responsible for direct or indirect damage, secondary damage or loss for the buyer.

Invoicing/crediting of guarantee part
The seller must be given the opportunity to control a notified guarantee matter. The buyer must then follow the directives given by the seller. If it is a question of a part that has been changed before the seller has had an opportunity to control this part, invoicing can be made as if it was a normal purchase. When the damage has

been estimated and if a guarantee fault has been noted, a credit invoice must be made immediately by the seller.

Buyer/Seller

In the guarantee directives above, the buyer is the one who is invoiced for the product and the seller the one who sends the invoice. If the purchase has been made through a retailer, it is the retailer who has a guarantee responsibility towards his end customer. In such a case, SpaDealers has a secondary responsibility towards their retailer.