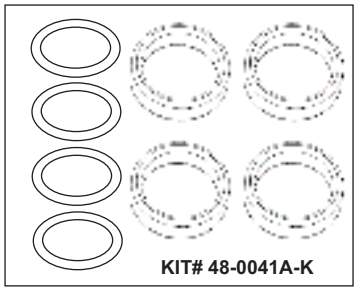
HYDROQUIP
THE SMART CHOICE

INSTRUCTIONS

Double Barrel Heater Gasket Kit #48-0041A-K



Kit contains:

4 Gaskets
2 Sensor O-rings
2 3/4" Barb O-rings

Tools required

Phillips Screwdriver
Clean Rag

ATTENTION! Service repair to the spa and/or heater should be performed by a qualified technician or licensed electrician. These instructions must be provided to the person performing the work.

Read this entire instruction prior to starting work. If you **do not** understand these instructions or unable to perform the steps required to replace the gaskets, **STOP!** and contact your heater provider for assistance.

ATTENTION! Product damaged by incorrect installation, alteration or freeze damage is not covered under warranty

Step 1 Accessing heater

A. The spa water must be drained to perform this repair.
B. Completely disconnect power to spa by turning off the spas electrical breaker
C. In addition to removing the plumbing hoses from the heater, you may also need to disconnect the electrical cord from the spa control

IT IS IMPORTANT to mark and note where and how wires and plumbing hoses are connected to accurately reconnect. Incorrect placement of wiring or plumbing hoses may lead to spa system or heater malfunction, circuit board damage, water leaks and pose a potential hazard to the spa user.

*** DO NOT remove the "hex screws" from the foot brackets for this service (DIA. #1)**

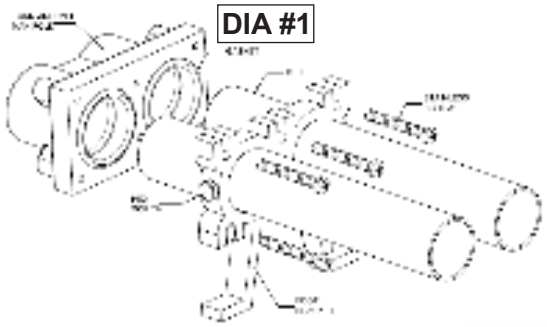
Step 2 Removing gaskets from manifold (Refer to DIA. #1 for item and location)

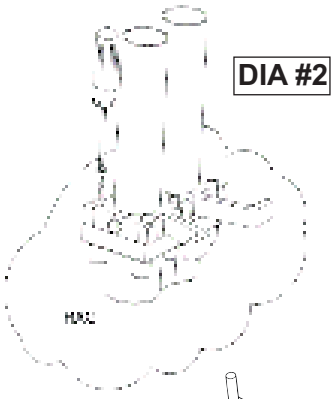
A. Remove 6 stainless screws from turn around manifold with a Philips screwdriver
B. Pull to remove manifold from heater tubes
C. Discard existing gaskets and wipe tubing clean with a rag

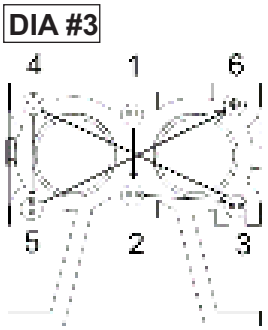
Step 3 Installing new gaskets on Manifold

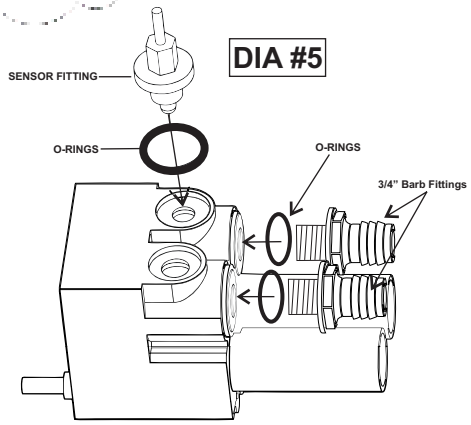
Inspect that gaskets and tube ends are clean and grease free prior to assembly

A. Dry fit new gaskets into manifold body then insert tubes (DIA. #1- #2). **Caution, do not** apply lubricant or sealant on gaskets or tubing. The Turn-Around Manifold is universal and has no up side
B. Lay down the rag and place heater on end pushing against ground to keep manifold in place while insert the stainless screws through Foot Bracket and into the pre-drilled holes (DIA. #2)
C. To insure an expert seal, hand tighten screws in the recommended harmonic pattern (DIA. #3) until snug **WARNING!** Using a drill driver may apply too much torque and strip out the manifold holes voiding warranty









Step 4 Removing gaskets from heater body (Refer to DIA. #4 for item and location)

A. Remove 6 stainless screws from heater body with a Philips screwdriver
B. Pull to separate body from heater tubes
C. Discard existing gaskets and wipe tubing clean with a rag

Step 5 Installing new gaskets on heater body (Refer to DIA. #4)

A. Inspect that all components are clean and grease free prior to assembly
B. Dry fit new gaskets into body then insert tubes (DIA. #4). **Caution, do not** apply lubricant or sealant on gaskets
C. Use DIA. #3 for recommended harmonic pattern to tighten screws until snug
D. **Do not loosen or remove "Hex Screws" from foot bracket (DIA. #1)**

Step 6 Replacing all Sensor and 3/4" Barb Fitting O-Rings (Refer to DIA. #5)

A. Remove sensor fittings using 1/2" open end wrench turning counterclockwise.
B. Lightly lubricate the new O-rings with non-drying lubricant(silicone lube etc.) before installing.
C. Re-thread sensor fittings back into the heater body finger tight. Use wrench to tighten sensor fitting maximum 1/2 turn **WARNING** sensor fittings can break if over tightened.
D. Remove 3/4" Barb fittings, replace O-rings, Lightly lubricate the new O-rings with non-drying lubricant (silicone lube etc.) before installing. Re-install 3/4" Barb fittings.

Step 7 Re-installing heater and testing for leaks

A. Place heater and reconnect water supply hoses and electrical in the same fashion as removed in step 1
B. Fill spa and turn power supply on at the breaker
C. Program the spa heater pump "on" and confirm water flow through heater
D. Inspect heater for leaks coming from gaskets

Trouble shooting gasket leaks

Gaskets can be removed and reinstalled again using these steps. Leaks can be caused by dented or bent tube ends, tubes not completely inside manifold or body, loose screws, debris between tube and gaskets, lubricants placed on tubes.