

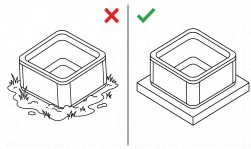
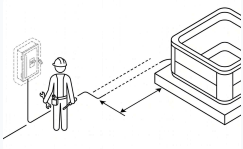
OUTDOOR SPA OWNER'S MANUAL & INSTALLATION GUIDE

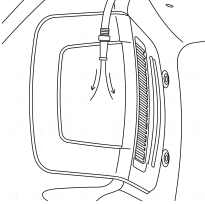
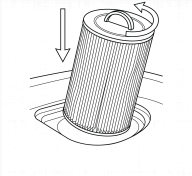
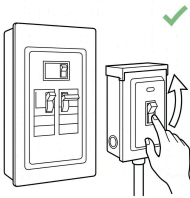
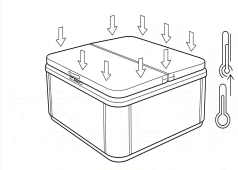
North American Standard Edition (60Hz / 240V)



SECTION 1: QUICK START GUIDE (8 ESSENTIAL STEPS)

Follow these 8 sequential steps before initial startup to prevent irreversible heating element or water pump damage:

Step	Action Item	Key Instruction (Do's)	Safety Mandate (Don'ts)
Step 1	Foundation & Site 	Verify level 4-6" (10-15 cm) reinforced concrete pad supporting ≥ 150 lbs/sq.ft.	DO NOT place directly on grass, soft soil, or loose pavers!
Step 2	Electrical (240V/60HZ) 	We suggest hiring a licensed electrician to connect a dedicated 240V circuit through a GFCI disconnect box (min 5ft / 1.5m away). Please note that the GFCI breaker is not included and is typically provided by your electrician.	DO NOT POWER ON YET! Powering dry causes instant heater burnout.
Step 3	Pipe Gate Valves Open ↑ Closed ↓ 	Open the equipment side door. Pull out red knife slice valve on both sides of the pump/ heater.	DO NOT run pumps with closed valves; cause dry-cavitation
Step 4	Clean Acrylic Shell 	Wipe down the acrylic interior with a soft damp microfiber cloth.	DO NOT use abrasive scouring pads, acetone, or harsh chemical cleaners.

Step	Action Item	Key Instruction (Do's)	Safety Mandate (Don'ts)
Step 5	Fill via Filter Well 	Insert hose DIRECTLY inside the filter canister. Fill 2-3" (5-7 cm) above the highest jet.	DO NOT fill from the tub bottom! Filling via filter eliminates plumbing Air Lock.
Step 6	Antimicrobial Filters 	Insert filter cartridge into canister and twist clockwise to lock.	DO NOT operate spa without filter cartridges properly locked in place.
Step 7	Power On & Priming 	Switch on house breaker and outdoor GFCI breaker. The system automatically initializes and checks system temperature.	DO NOT alter wiring while the system breaker is turned on.
Step 8	Heating & Cover 	Set target temp to 100°F-104°F. Fasten insulated leather cover. Heating rate is approximately 3°F–6°F per hour, depending on ambient air temperature and water volume. Enjoy your spa!	DO NOT leave cover off during heat-up; causes massive thermal loss.

WINTER INSTALLATION MANDATE: Do NOT initiate spa startup in freezing ambient temperatures! If the unit was delivered in sub-freezing weather, place a ceramic space heater inside the equipment cabinet for 24 to 48 hours prior to water filling to thoroughly thaw pumps, manifold unions, and control sensors.



SECTION 2: CRITICAL SAFETY PRECAUTIONS & GFCI REQUIREMENTS

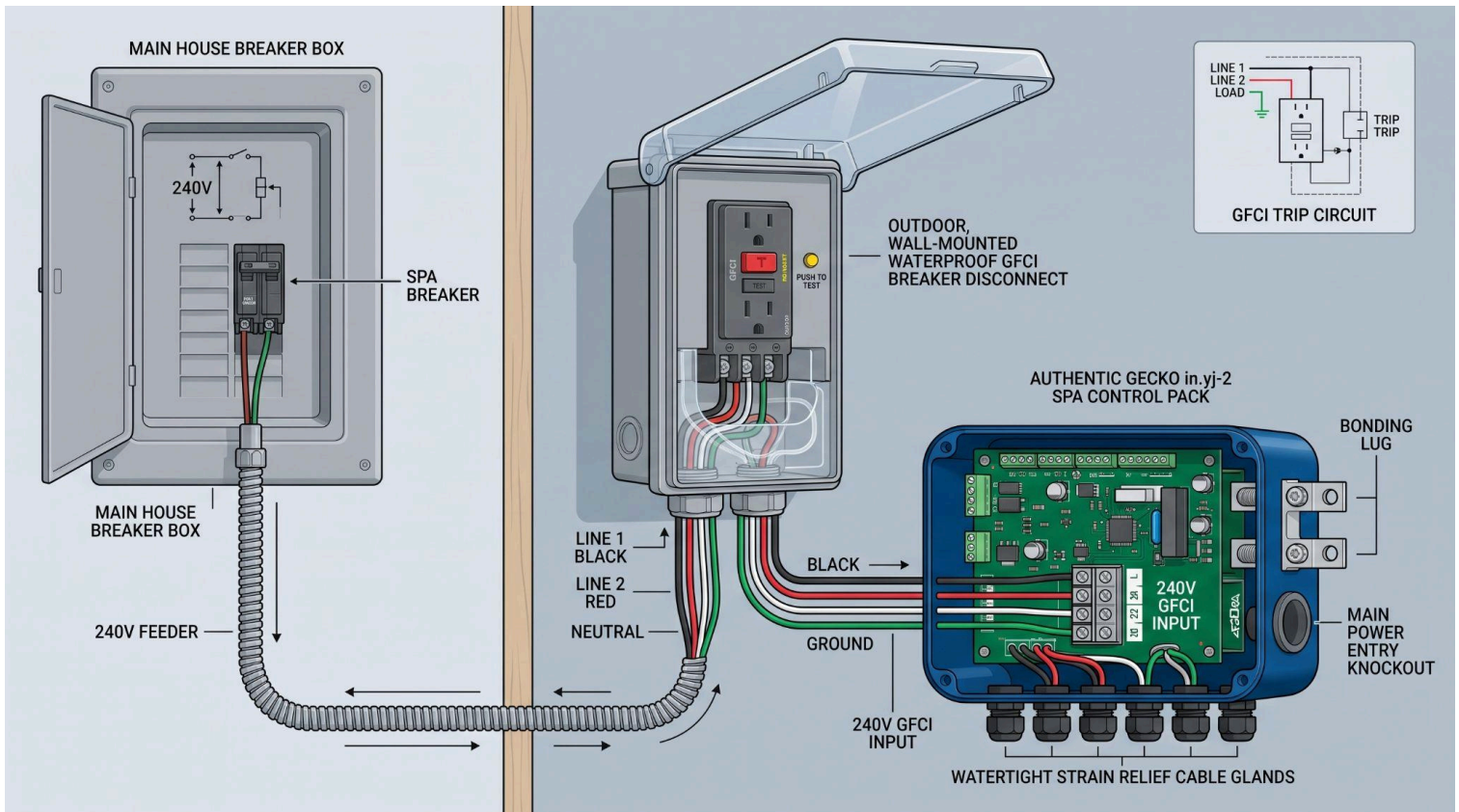
DANGER: RISK OF ELECTROCUTION & DROWNING

- **Dedicated 240V Circuit:** The spa must be powered by a dedicated 240V, 50A/60A circuit breaker with an approved Ground Fault Circuit Interrupter (GFCI / RCD). Never use extension cords.
- **GFCI Disconnect Location:** The external GFCI disconnect switch must be readily accessible and visible to occupants, located at least 5 feet (1.5 m) away from the spa water line.
- **Clearance from Metal & Appliances:** Keep all electrical appliances (telephones, audio/video systems, lamps) at least 5 feet (1.5 m) away from the spa.
- **Child Supervision:** Never permit children to enter or operate the spa without constant adult supervision. Secure and lock the cover latches with the key whenever the spa is not in use.

WARNING: HYPERTHERMIA & HEALTH PRECAUTIONS

- **Maximum Water Temperature:** Spa water should never exceed 104°F (40°C). A temperature of 100°F–102°F (38°C–39°C) is considered safe for healthy adults. Limit soaking sessions to 15–20 minutes.
- **Pregnancy & Pre-existing Conditions:** Pregnant women, elderly individuals, diabetics, or persons with cardiovascular diseases must consult a physician before using the spa. Water temperature for pregnant users must not exceed 100°F (38°C).
- **Alcohol and Drug Use:** Consuming alcoholic beverages or narcotics before or during soaking can cause drowsiness, leading to unconsciousness and accidental drowning.

SECTION 3: 240V GFCI ELECTRICAL WIRING & TROUBLESHOOTING

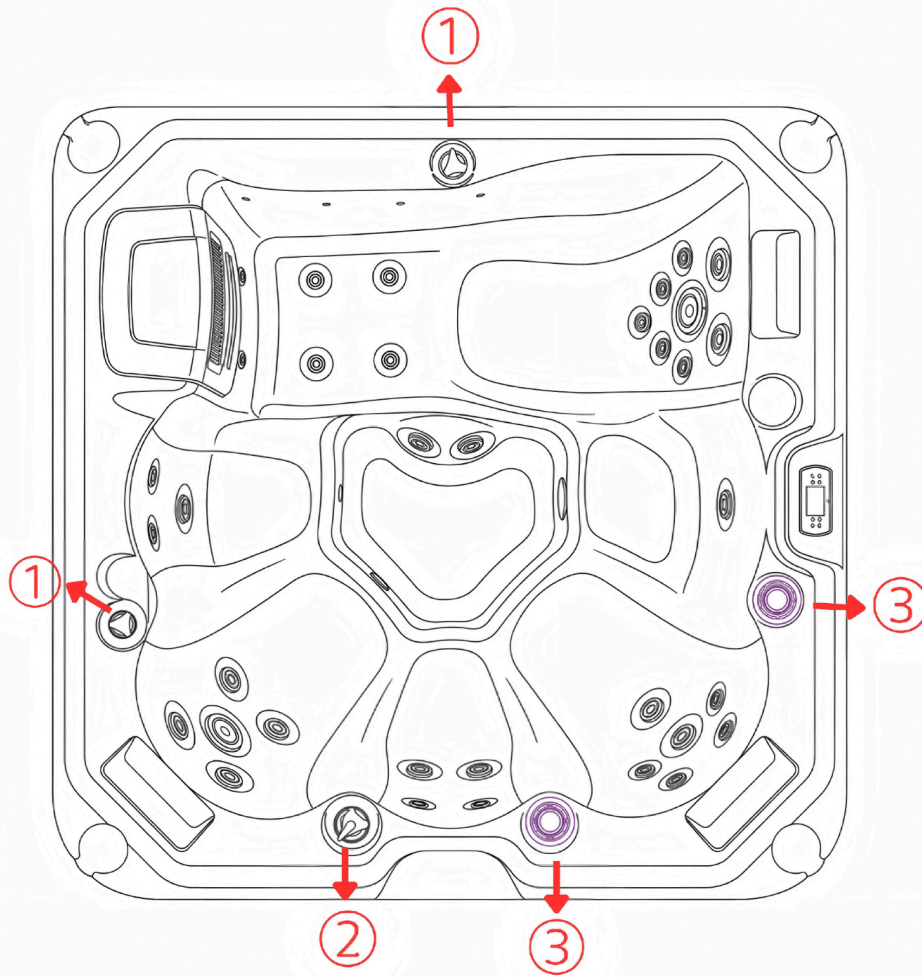


Immediate GFCI Tripping Diagnostic Procedure:

1. **Check Neutral Wiring:** 90% of initial trip issues occur when the white load neutral wire is wired to the panel neutral bus rather than the load neutral terminal on the GFCI breaker.
2. **Isolate Components:** If wiring is verified correct, turn off the main breaker, unplug the Heater assembly, and reset the GFCI. If it holds, the heater element has grounded out.
3. **Pump & Ozone Isolation:** If the GFCI continues tripping, unplug Pump 1 and the Ozone Generator one by one. Re-energize after each step to isolate the defective component.

SECTION 5: SPA HARDWARE, VALVES CONTROLS

Feature Function



① Air Valve

② Water Diverter

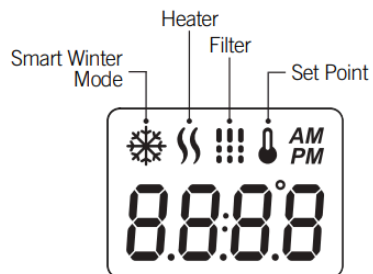
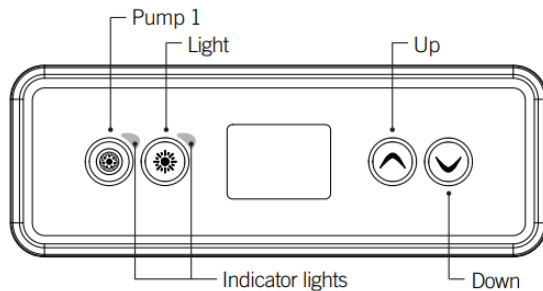
③ Cup Holder

SECTION 6: ELECTRONIC DIGITAL CONTROL CENTER GUIDE (GECKO in.k300)

This unit is equipped with the genuine **Gecko in.k300** compact keypad paired with a high-performance dual-speed pump system. Featuring a dedicated LCD screen and intuitive function icons, it provides full operational control over hydrotherapy, temperature, and automated maintenance cycles.

1. Keypad Layout & Display Screen Elements

1 Pump Model



2. Primary Keypad Functions & Quick Operations

Function	Button Action Sequence	Operational Details & Feedback
Dual-Speed Pump 1	Press [Pump 1] repeatedly:	• 1st Press: Low Speed (circulation/filtration); LED indicator flashes. • 2nd Press: High Speed (vigorous hydro-massage); LED indicator illuminates solid. • 3rd Press: Pump turns OFF.
LED Spa Lighting	Press [Light] button.	Turns multi-color interior LED lights On or Off. Pressing repeatedly cycles through preset solid colors and dynamic color-fading modes.
Adjust Temperature	Press [Up] or [Down] arrow keys.	The Set Point icon will appear at the top of screen and temperature digits flash. After 3 seconds without key input, the set value automatically saves and returns to current water temp.
Maintenance "Off Mode"	Press and hold [Pump 1] for 5 seconds .	Shuts off all outputs (heating, filtration, smart winter mode) for 30 minutes for quick maintenance/filter changes. Display toggles between "OFF", clock, and water temp. • Light flashes right before 30 minutes expire. • Press [Pump 1] to cancel and resume early; display confirms with "On" for 3 seconds.

3. Step-by-Step Programming Menu Guide

To enter the Program Menu, **press and hold the [Light] button for 5 seconds**. Use **[Up]** or **[Down]** to adjust parameter values, and press **[Light]** to save and jump to the next setting.
(Note: Settings are finalized after the last parameter confirmation; leaving untouched for 10 seconds exits without saving).

Menu Step	NOTE	Programming Instructions & Default Settings
1. Setting Clock (Hour & Min) 	Holding down the Light key for 5 seconds.	Setting the hour: Use the arrow keys to adjust the hour. Press the Light key to jump to the next parameter, the minutes. Setting the minutes: Use the arrow keys to adjust the minutes. Press the Light key to jump to the next parameter, the filter or purge start time (FS).
2. Filter Start Time (FS) 	FSxx	"xx" represents the starting hour of the scheduled filtration cycle. Use arrow keys to select start hour, then press Light.
3. Filter Duration (Fd) 	Fdxx	"xx" represents cycle length in hours (0 = no filtration, 24 = continuous filtration). Recommended: 2 hours (Fd02). Press Light to advance. <i>Filter cycle begins with a 1-minute high-speed purge step, followed by low-speed filtration for the remaining set duration.</i>
4. Filter Frequency (FF) 	FFxx	"xx" represents the number of daily filtration cycles (e.g. FF02 = 2 cycles/day). Recommended: 2 cycles daily. Use the arrow keys to enable or disable economy mode
5. Economy Mode (EP)* 	EPx	Lowers set temperature by 20°F (11°C) during off-peak hours. 0 = Disabled, 1 = Enabled. When active, screen toggles "Eco", time, and temp. Use the Light key to jump to the next parameter

Menu Step	NOTE	Programming Instructions & Default Settings
6. Economy Start & Duration* 	ESxx / Edxx	If Economy mode is enabled: set start hour (ESxx), press Light, then set duration in hours (Edxx). Use the arrow keys to adjust the hour. Press Light to proceed.
7. Temperature Units 	°F or °C	Water temperature can be displayed in either Fahrenheit (°F) or Celsius (°C). The display will show °F or °C. Use the arrow keys to change the setting. Use the Program or Light key to save all the parameters.

4. Automatic System Protection Features



- Smart Winter Mode (SWM):** Protects plumbing from freezing by automatically running pumps periodically when potential freeze conditions are detected. The SWM icon illuminates solid and flashes during active purging.
- Heater Cooldown:** After target temperature is satisfied, the heating element shuts off while Pump 1 continues running in low-speed for a predefined cooldown period to prolong element lifespan.
- Water Temperature Regulation:** Pump 1 runs automatically for periodic intervals (every 15 to 90 minutes) to circulate water across temperature sensors for accurate sampling and dry-fire prevention.



SECTION 7: MAINTENANCE SCHEDULE

1. Draining Your Spa

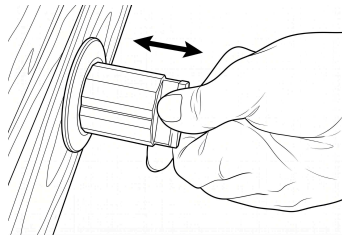
Because your spa holds a relatively small amount of water, contaminants such as body oil, perspiration, dirt, hair, etc., may become quite concentrated. For this reason, the water should be drained and replaced every three months depending on use.



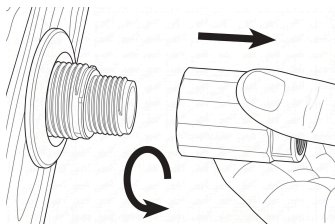
Turn off power at the breaker before draining.



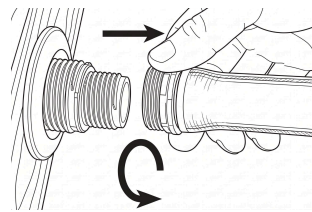
When water begins to drain out of the hose, be sure to drain the water to a convenient place.



1. Extend the Valve: Gently pull the drain fitting outward about 2 inches until you feel it locks into position.



2. Uncap: Twist off the threaded end-cap.



3. Attach Hose: Screw on your standard garden hose firmly.

2. Scheduled Maintenance Timeline Matrix

Maintenance Procedure	Frequency	Detailed Execution Instructions
Sanitize & Test Water	Each Use / Weekly	Dip test strip; balance chlorine and pH. Add 1-2 teaspoons of Dichlor granules after heavy soaking.
Shock Oxidation (MPS)	Weekly	Add non-chlorine shock (MPS) with cover off and jets running on high for 20 minutes to eliminate chloramines.
Filter Cartridge Rinse	Weekly	Unscrew and remove pleated filter core. Spray pleats thoroughly with high-pressure garden hose nozzle.
Deep Chemical Filter Soak	Every 3–4 Months	Soak filter cartridge overnight in specialized filter cleaning solution; rinse thoroughly before reinserting.
Drain & Refill Water	Every 3–4 Months	Add Spa Pipe Flush compound before draining. Empty tub via drain valve, wipe shell clean, and refill via filter well.
Cover & Skirt Conditioning	Monthly	Clean vinyl cover and composite skirt with mild soapy water. Apply UV-protectant conditioner to prevent cracking.

SECTION 8: SYSTEM TROUBLESHOOTING & ERROR CODES

When the Gecko in.k300 detects an operational error, a code will display on the screen. Refer to the matrix below for diagnostic interpretation and corrective actions:

Code	Message
HL	Warning! HL Error
FLO	No flow for more than 2 hours
FLO	No flow condition
HR	Danger! Relay stuck
OH	Warning! Spa temp. high
Prr	Warning! Temp. probes defective
AOH	Internal pack temp. high
FLC	Flow switch closed
SP in	Input voltage issue
FrEr	The input frequency is out of range
RH NC	Comm. error in.xm2 - in.therm
RH ID	in.xm2 - in.therm incompatible
SC ER	Learning mode error
F1	in.xm2 Fuse # 1 is blown
F2	in.xm2 Fuse # 2 is blown
F3	in.xm2 Fuse # 3 is blown
Hr	Danger! Thermal fuse error
UPL	The spa pack does not have valid software. Please insert valid in.stick to reprogram spa pack.
BL	The spa pack does not have valid software. Please insert valid in.stick to reprogram spa pack.

SECTION 9: NORTH AMERICAN LIMITED WARRANTY STATEMENT

- **1-Year Structural Shell Warranty:** Warrants the acrylic spa shell structure against structural failure and water loss for 1 years from the original purchase date.
- **1-Year Acrylic Surface Finish:** Warrants against blistering, cracking, or delamination of the Lucite acrylic interior for 1 years.
- **1-Year Plumbing & Equipment:** Warrants factory-installed plumbing fittings, electronic control pack, circulation pumps, and heater against defect in workmanship for 1 years.
- **Warranty Limitations & Exclusions:** Warranty does not cover damage caused by dry running (power applied without water), chemical abuse (use of Trichlor tablets, acids, or floating dispensers), freezing water, rodent chewing of wires, or placement on unreinforced soil/grass surfaces.

Customer Service & Support:

If you experience any issues or require technical assistance under this warranty, please contact our dedicated service team at info@monalisa.cn. Please have your spa model, serial number, and original purchase invoice ready to facilitate prompt support.