OWNER'S MANUAL

Coleman®

COLEMAN® SPAS

United States and Canada

LTR50001135, Rev. A
unreleased

CONTACT INFORMATION

For customer service, please contact your authorized dealer immediately. If you need additional information and/or assistance, contact:

Coleman® Spa Customer Service
1462 East Ninth Street
Pomona, CA 91766

Toll Free: 1-888-772-4265

Due to continuous improvement programs, all models, operation, and/or specifications are subject to change without prior notice.

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Important Safety Instructions

READ AND FOLLOW ALL INSTRUCTIONS.

WARNING:

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

DANGER -- Risk of accidental drowning:

Do not allow children to be in or around a spa unless a responsible adult supervises them. Keep the spa cover on and locked when not in use. See instructions enclosed with your cover for locking procedures.

DANGER -- Risk of injury:

The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings, or the pump, be sure the flow rates are compatible.

Never operate the spa if the suction fitting or filter baskets are broken or missing. Never replace a suction fitting with one that is rated less than the flow rate marked on the original suction fitting.

DANGER -- Risk of electric shock:

Install the spa at least 5 feet (1.5 meters) from all metal surfaces. As an alternative, a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently bonded by a minimum #8 AWG solid copper conductor to the outside of the spa's control box.

DANGER -- Risk of electric shock:

Do not permit any external electrical appliances, such as lights, telephones, radios, televisions, and etc., within five feet (1.5 meters) of the spa. Never attempt to operate any electrical device from inside the spa.

WARNING -- To reduce the risk of injury:

The spa water should never exceed 104°F (40°C). Water temperatures between 100°F (38°C) and 104°F (40°C) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.

High water temperatures have a high potential for causing fetal damage during pregnancy. Women who are pregnant, or who think they are pregnant, should always check with their physician prior to spa usage.

The use of alcohol, drugs or medication before or during spa use may lead to unconsciousness, with the possibility of drowning.

Persons suffering from obesity, a medical history of heart disease, low or high blood pressure, circulatory system problems or diabetes should consult a physician before using the spa.

Persons using medications should consult a physician before using the spa since some medications may induce drowsiness while others may affect heart rate, blood pressure and circulation.

HYPERTHERMIA DANGER:

Prolonged exposure to hot air or water can induce hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level 3°F to 6°F above the normal body temperature of 98.6°F (or 2°C to 4°C above 37°C). While hyperthermia has many health benefits, it is important not to allow your body's core temperature to rise above 103°F (39.5°C).

Symptoms of excessive hyperthermia include dizziness, lethargy, drowsiness and fainting. The effects of excessive hyperthermia may include:

- Failure to perceive heat
- Failure to recognize the need to exit spa or hot tub
- Unawareness of impending hazard
- Fetal damage in pregnant women
- Physical inability to exit the spa
- Unconsciousness

WARNING: The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia.

DANGER -- Risk of electric shock:

- Replace a damaged power cord immediately.
- Do not bury the power cord.
- Connect to a grounded, grounding-type receptacle only.

WARNING: People with infectious diseases should not use a spa or hot tub.

WARNING: To avoid injury, exercise care when entering or exiting the spa or hot tub.

WARNING: Do not use drugs or alcohol before or during the use of a spa or hot tub to avoid unconsciousness and possible drowning.

WARNING: Do not use a spa or hot tub immediately following strenuous exercise.

WARNING: Prolonged immersion in a spa or hot tub may be injurious to your health.

CAUTION: Maintain water chemistry in accordance with manufacturer's instructions.

SAVE THESE INSTRUCTIONS.

Preparing for Your New Portable Spa

Most cities and counties require permits for exterior construction and electrical circuits. In addition, some communities have codes requiring residential barriers such as fencing and/or self-closing gates on property to prevent unsupervised access to the property by children. Your dealer can provide information on which permits may be required and how to obtain them prior to the delivery of your spa.

Before Delivery	
	Plan your delivery route
	Choose a suitable location for the spa
	Lay a 5 - 8 cm concrete slab
	Install dedicated electrical supply
After Delivery	
	Place spa on slab
	Connect electrical components

Planning the Best Location

Safety First

Do not place your spa within 10 feet (3 m) of overhead power lines.

Consider How You Will Use Your Spa

How you intend to use your spa will help you determine where you should position it. For example, will you use your spa for recreational or therapeutic purposes? If your spa is mainly used for family recreation, be sure to leave plenty of room around it for activity. If you will use it for relaxation and therapy, you will probably want to create a specific mood around it.

Plan for Your Environment

If you live in a region where it snows in the winter or rains frequently, place the spa near a house entry. By doing this, you will have a place to change clothes and not be uncomfortable.

Consider Your Privacy

In a cold-weather climate, bare trees won't provide much privacy. Think of your spa's surroundings during all seasons to determine your best privacy options. Consider the view of your neighbors as well when you plan the location of your spa.

Provide a View with Your Spa

Think about the direction you will be facing when sitting in your spa. Do you have a special landscaped area in your yard that you find enjoyable? Perhaps there is an area that catches a soothing breeze during the day or a lovely sunset in the evening.

Keep Your Spa Clean

In planning your spa's location, consider a location where the path to and from the house can be kept clean and free of debris.

Prevent dirt and contaminants from being tracked into your spa by placing a foot mat at the spa's entrance where the bathers can clean their feet before entering your spa.

Allow for Service Access

Make sure the spa is positioned so that access to the equipment compartment and all side panels will not be blocked.

Many people choose to install a decorative structure around their spa. If you are installing your spa with any type of structure on the outside, such as a gazebo, remember to allow access for service. It is always best to design special installations so that the spa can still be moved, or lifted off the ground.

Preparing a Good Foundation

Your spa needs a solid and level foundation. The area that it sits on must be able to support the weight of the spa, with water and the occupants who use it. If the foundation is inadequate, it may shift or settle after the spa is in place, causing stress that could DAMAGE YOUR SPA SHELL AND FINISH.

Damage caused by inadequate or improper foundation support is not covered by the warranty. It is the responsibility of the spa owner to provide a proper foundation for the spa.

Place the spa on an elevated 3 to 4" / 30 cm concrete slab. Pavers, gravel, brick, sand, timbers or dirt foundations are ***not*** adequate to support the spa.

We strongly recommend that a qualified, licensed contractor prepare the foundation for your spa.

If you are installing the spa indoors, pay close attention to the flooring beneath it. Choose flooring that will not be damaged or stained.

If you are installing your spa on an elevated wood deck or other structure, it is highly recommended that you consult a structural engineer or contractor to ensure the structure will support the weight of 150 pounds per square foot (732 kg / m2).

To properly identify the weight of your new spa when full, remember water weighs 8.33 lbs. per gallon, or 1 kg per liter. For example, an average 8' spa spa holds approximately 500 gallons, or 1892 liters, of water. Using this formula, you will find that the weight of the water alone is 4,165 lbs, or 1892 kg. Combined with the dry weight of the spa you will note that this spa will weigh approximately 5,000 lbs, or 2267 kg, when full of water.

240 Volt Electrical Installation

All 240V spas must be permanently connected (hardwired) to the power supply. See the wiring diagram on page 7.

These instructions describe the only acceptable electrical wiring procedure. Spas wired in any other way will void your warranty and may result in serious injury.

When installed in the United States, the electrical wiring of this spa must meet the requirements of NEC 70 and any applicable local, state, and federal codes.

The electrical circuit must be installed by an electrical contractor and approved by a local building or electrical inspector.

Failure to comply with state and local codes may result in fire or personal injury and will be the sole responsibility of the spa owner.

The power supplied to the spa must be on a dedicated GFCI protected circuit as required by NEC 70 with no other appliances or lights sharing the power.

Use copper wire with THHN insulation. Do not use aluminum wire.

Use the table below to determine your GFCI and wiring requirements.

Wire runs over 85 feet must increase wire gauge to the next lower number. For example: A normal 50 amp GFCI with four #8 AWG copper wires run over 85 feet would require you to go to four #6 AWG copper wires.

240V GFCI and Wiring Requirements

All VS500 control systems are set at the factory to run on the low power setting for low amperage operation. This is the default setting. Spa owners can have their installer change this setting so the spa will run on high power for 50 or 60 amp operation.

Warning: Never set a spa to run on high power without installing a properly rated GFCI.

Spa Model	Power Setting	GFCI Required	Wires Required
CO534L-A	VS-300 systems	One 40 amp GFCI	Four #8 AWG copper wires
CO-628T-A CO-637L-A CO-756B-A CO-756L-A CO-756B-S CO-756L-S	VS-520 two pump systems Standard power mode	One 40 amp GFCI	Four #8 AWG copper wires
	VS-520 two pump systems High power setting -- ***See configuration instructions on next page***	One 50 amp GFCI	Four #6 AWG copper wires

High Power 60 Hz Configuration

DIP Switch Definitions for VS520 system

Note: Arrow indicates factory default setting.

OFF Position (Down)		ON Position (Up)
Test Mode OFF	◄ **A1**	Test mode (normally OFF)
Control amp draw requirements -- with A10 -- see table 1 below	◄ **A2**	See table 1 below
Pump 2 is 2-speed	◄ **A3**	Pump 2 is 1-speed
Aux Freeze (must remain OFF)	◄ **A4**	
Pump 1 speeds and Circ Modes -- with A5 -- see table 2 below	**A5** ►	See table 2 below
Single voltage heating (240VAC only)	**A6** ►	Dual voltage heating enabled
J17/26 disabled	◄ **A7**	J17/26 enabled for blower or 1-speed pump
Temperature displayed in Fahrenheit	◄ **A8**	Temperature displayed in Celsius
Pump 1 speeds and Circ Modes -- see table 2 below	**A9** ►	See table 2 below
Control amp draw requirements -- with A2 -- see table 1 below	**A10** ►	See table 1 below

Table 1

Factory default	No. of high speed pumps before heat disabled	A2	A10
	0	OFF	OFF
	1	ON	OFF
►	**2**	OFF	ON
	3	ON	ON

Table 2

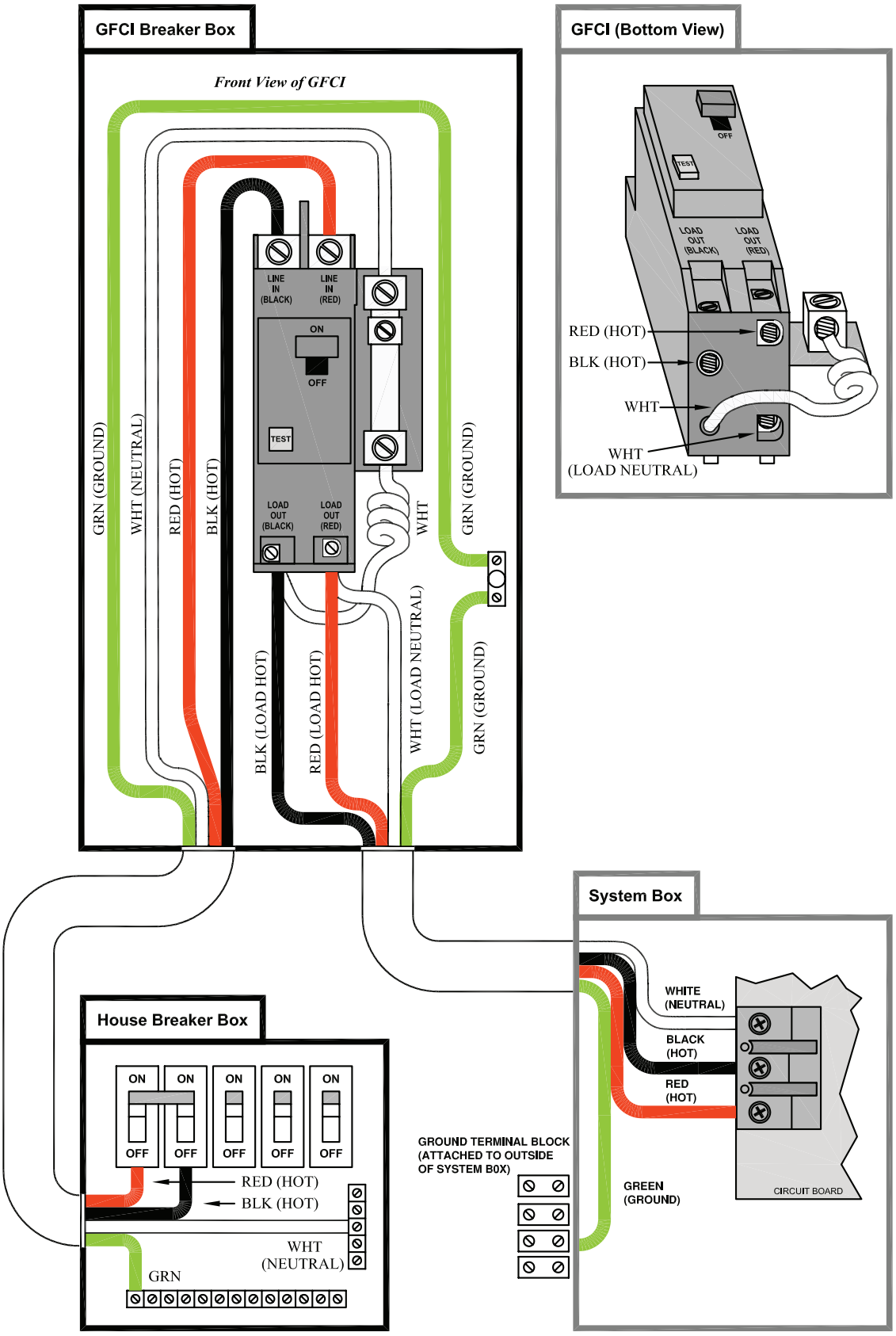
Factory default	Circ Mode	Pump 1 Speed	A5	A9
►	Non-circ	2-speed	OFF	OFF
	Circ "acts like Pump 1 low"	1-speed	ON	OFF
	24 hours with 3°F shut-off	1-speed	OFF	ON
	24 hours with 3°F shut-off	2-speed	ON	ON

Testing the GFCI Breaker

Test the GFCI breaker prior to first use and periodically when the spa is powered. To test the GFCI breaker follow these instructions (spa should be operating):

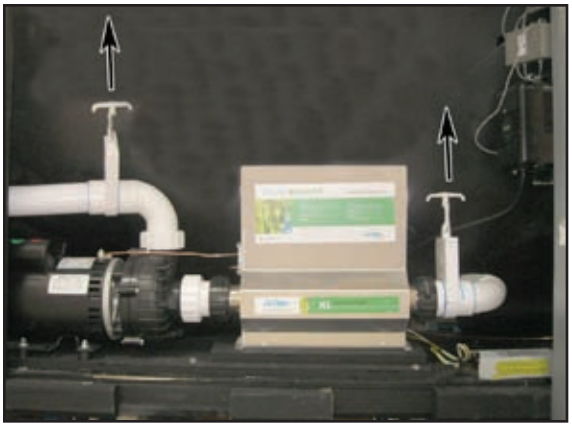
1. Press the TEST button on the GFCI. The GFCI will trip and the spa will shut off.
2. Reset the GFCI breaker by switching the breaker to the full OFF position, wait a moment, then turn the breaker back on. The spa should have power again.

GFCI Wiring Diagram



Filling and Powering Up Your Portable Spa

1. Inspect the spa equipment.



After the spa has been placed on an approved surface and has been correctly wired by a licensed electrician, inspect all plumbing connections in the equipment area of your spa. Ensure that these connections are secure and that they did not loosen during shipment.

If your spa has gate valves, make sure they are all in the UP or OPEN position.

Never run the spa with the gate valves closed or without water circulating for long periods of time. Be careful not to over-tighten the plumbing fittings.

2. Remove the cartridge from filter canister.

Unscrew the cartridge and remove it.

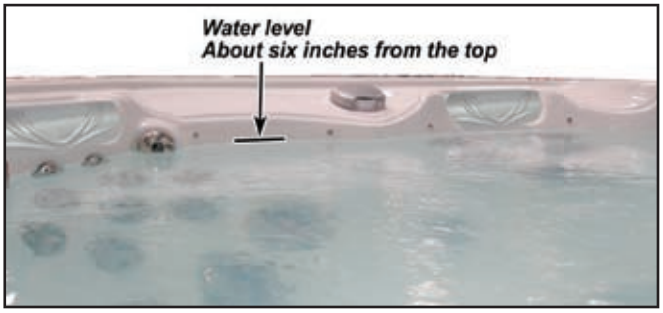
After you remove the filter, remove the plastic wrapper and soak it in water for 30 minutes before you replace it. A dry filter can allow air into the filtration system which can cause the pump to fail to prime.

3. Fill the spa.

Place a garden hose in the filter canister and fill your spa with ***regular tap water*** about six inches from the top.

If the water level is too low or too high, your spa will not operate properly.

Always fill the spa through the filter canister! Failure to do so may cause air to be trapped in the filtration system and prevent the pumps from operating properly.



Never fill your spa with soft water.

Soft water makes it impossible to maintain the proper water chemistry and may cause the water to foam, which will ultimately harm the finish of the spa and void your warranty.

4. Turn on power to the spa.

When the spa is filled to the correct level, turn on the power at the GFCI breaker. (Ensure that the 120V spas are connected to the proper electrical outlet.)

5. Prime the pump.

Your spa will perform a self-diagnostic check and go into priming mode. When the control panel displays ***PR***, do the following:

a. Press the JETS button to turn on the pump and let it run for 10 seconds. The pump should be running in low speed.

b. Press the JETS buttons again and let the pump run in high speed for 10 seconds.

c. Press the JETS button again to turn off the pump. The pump should be left off for 10 to 15 seconds.

d. Repeat steps a through c until water is flowing through all the jets and all air is removed from the plumbing.

If spa fails to prime, there could be an air pocket at the suction side of the pump. Follow the priming instructions on page 10 using the bleeder valve.

6. Install the filter into the filter canister.

⚠ Make sure the filter has soaked at least 30 minutes before you install it.

7. Let the spa heat up.

When the spa has finished priming, the heater will activate.

Put the cover on and let the spa run for two hours.

8. Adjust water chemistry.

After the spa has run for two hours, test and adjust the water chemistry. See the section on page 18 for instructions on water clarity.

Priming the Pump

New spa owners often have difficulty the first time they start their spa and the pump fails to prime. This can be frustrating, but these simple instructions can help you.

> ⚠ The pump will not work properly while air is trapped in it. Continuing to operate the pump in this way will cause damage.

Sometimes air can become trapped in the pump while filling the spa. You will know this has happened when after you have filled and started the spa, the pump does not seem to function. You will hear the pump operating, but no water will be moving.

There are two methods of priming the pump.

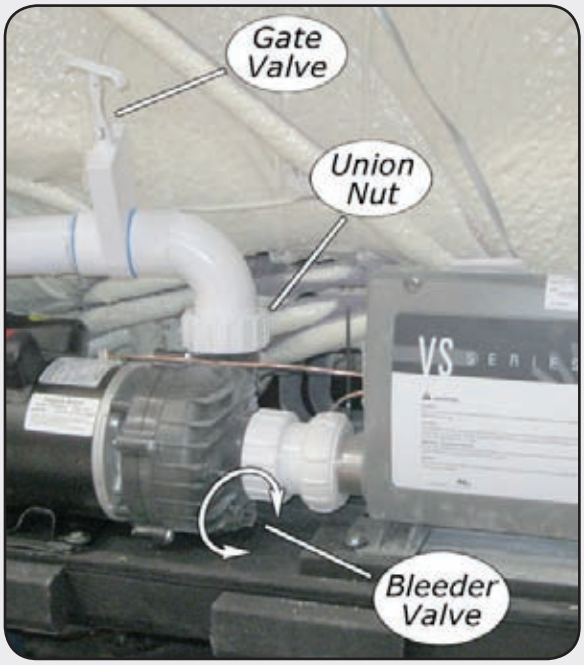
Using the control panel:

1. Turn the spa on and wait for PR (Priming Mode) to appear on the topside display.
2. Press the JETS button to turn on the pump and let it run for 10 seconds. The pump should be running in low speed.
3. Press the JETS buttons again and let the pump run in high speed for 10 seconds.
4. Press the JETS button again to turn off the pump. The pump should be left in the off position for 10 to 15 seconds.
5. Repeat steps 1 through 4 until water is flowing through all the jets and all air is removed from the plumbing.

Note: If you press the ***Temp*** button any time during Priming Mode, it will exit that mode and begin Standard Mode.

Using the bleeder valve:

1. Using a Phillips screwdriver, remove the front panel from the spa and locate the pump.
2. Shut off the power to the spa.
3. Close the gate valve on the discharge side of the pump.
4. Tur n the bleeder valve counter clockwise with a small pair of pliers or a flat head screwdriver until the air has been released from the pump.
5. If this is unsuccessful, loosen the white union nut on side of the pump with channel locks. When air is bled out, tighten the nut.
6. Turn on power to the spa and press the JETS button. If there is still air trapped in the pump, repeat steps 2 through 5 until the pump primes.



Operating Your Spa

Electronic Control Operation

These instructions will describe features and options that your particular spa may not be equipped with.

Initial Start up

When first powered up, your spa will perform a self-diagnostic check and go into priming mode. When the control panel displays ***PR***, IMMEDIATELY do the following:

1. Press the **Jets** or **Jets 1** button to turn on the pump and let it run for 10 seconds. The pump should be running in low speed.
2. Press the **Jets** or **Jets 1** buttons again and let the pump run in high speed for 10 seconds.
3. Press the **Jets** or **Jets 1** button again to turn off the pump. The pump should be left in the off position for 10 to 15 seconds.
4. Repeat steps 1 through 3 until water is flowing through all the jets and all air is removed from the plumbing.

When the spa has finished priming, the heater will be activated and the water temperature will be maintained in standard mode. The spa will heat to 100°F (37.5°C) at start up until the set temperature is changed as described below.

VS300 single pump system (four button control panel)

VS520 two pump system (six button control panel)

Jet Operation

One Pump Systems

CO518R, CO534L

Single pump systems operate on high power only.

To operate the jets, press the **JETS** button:

- Once to turn the pump ON.
- Twice to turn the pump OFF.

Two pump systems

CO756B, CO756L

Press the **Jets 1** button:

- Once to turn the pump ON.
- Twice to turn the pump OFF.

Press the **Jets 2** button:

- Once to activate low speed pump.
- Twice to activate high speed.
- Three times to turn pump off.

Heater Light

The heater light will turn on whenever the heater is operating. It will appear three different ways when the spa is operating:

A steady light means that the spa is operating at 220V.

A slowly blinking light means that the spa is operating at 120V.

A rapidly flashing light means that the heater is reading the water temperature. When the temperature has been determined, the heater light will stop flashing. You will frequently see the heater light flashing rapidly while it is also steady or slowly blinking.

Low and High Power Operation

Two and three pump systems can be configured to operate on low or high power. The factory default is low power. This section describes how the spa operates when it is configured for low power operation.

See page 5 for GFCI and wiring requirements for both low and high power operation.

Spas configured for low power operation require approximately 20% less power to operate. With low power configuration, the spa will never use more than 30 amps while in operation and will alternate between 110V and 220V, while spas configured for high power will operate continuously at 220V.

When only one pump is running, the heater will operate at 220V. When two or three pumps are running, the heater will automatically switch to operate at 110V.

The heater light will tell you when it is operating and what voltage it is using. See the "Heater Light" section above.

For spas configured for high power operation, the heater will turn on when (1) the water temperature drops or (2) the jets are in use.

Heating Modes

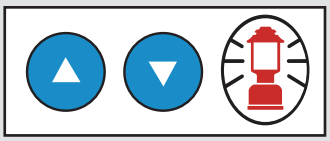
The spa can be set to operate in three different heating modes:

- ***Standard:*** When the spa is powered up, it will automatically start in Standard heating mode. In Standard mode, the heating system will automatically maintain the set spa temperature. ***STD*** will light briefly on the main display.
- ***Economy:*** In Economy mode, the heating system will only activate during filtration times. and will heat the water to the set temperature. ***Ecn*** will display solid if temperature is not current and will alternate with spa temperature if measured temperature is current.
- ***Sleep:*** In Sleep mode, the heating system will only activate the heater during the filtering cycles but will only heat the water to within 20°F (10°C) of the set temperature. Like Economy mode, ***SLP*** will display solid when temperature is not current and will alternate with actual temperature when it is current.

NOTE: Displayed temperature will only be current after the pump has been running for at least two minutes.

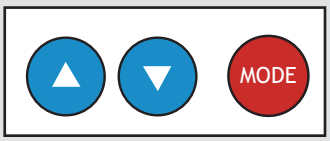
Switching Heating Modes

One pump systems



- Press the **Temp UP** or **Temp DOWN** button. The temperature setting will flash.
- While the display is flashing, press the **Light** button. The display will show the next following mode in the sequence (not the current mode).
- To select the mode shown on the display, press **Temp UP** or **Temp DOWN** once again.

Two and three pump systems

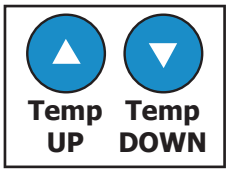


- Press the **Temp UP** or **Temp DOWN** button.
- Press the **Mode** button. The display will show the next following mode in the sequence (not the current mode).
- Press **Temp UP** or **Temp DOWN** followed by Mode to cycle through the three heating modes. Stop when the display shows the heating mode you want.

Temperature Adjustment

(Range 80°F to 104°F, 26°C to 40°C)

The electronic control panel displays the actual water temperature in degrees Fahrenheit. The displayed temperature will only be current after the pump has been running for at least two minutes.



To display the temperature that the spa is set to:

- Press the **Temp UP** or **Temp DOWN** button. The temperature setting will flash.
- While the display is flashing, each time you press the **Temp UP** or **Temp DOWN** button, the set temperature will change up or down one degree.

Freeze Protection

If the temperature sensors detect a drop to 44°F within the heater, the pump automatically activates to provide freeze protection. The equipment stays on until four minutes after the sensors detect that the spa temperature has risen to 45°F or higher.

In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts similarly except with the temperature thresholds determined by the switch and without a four-minute delay in turnoff.

Light

Press the **Light** button to turn on the light. Press it once again to turn the light off. All optional lighting such as the control panel light and cabinet perimeter lighting is controlled by the **Light** button and will turn on and off with the spa light.

Automatic Time outs

These features will automatically turn themselves off during periods of continuous use:

Low speed pump *	After 4 hours
High speed pumps	After 15 minutes
Optional circulation pump	After 15 minutes
Optional turbo	After 15 minutes
Spa light	After 4 hours

* One pump systems only

Setting Filtration Cycles

Your spa is programmed to filter twice a day. The first cycle will begin 6 minutes after the spa is turned on and the second cycle 12 hours later. The factory has programmed the cycle to last for 2 hours but this can be switched to your preference.

To set time the filtration cycle begins, turn off the power to the spa at the time of day you would like one of the filtration cycles to begin then turn back on after 30 seconds. When power has been restored, press the **Temp UP** or the **Temp DOWN** button, followed by the **Jets** button. Press **Temp UP** or **Temp DOWN** again to change the filtering cycle duration.

The filtration cycles and their displays are as shown:

One pump systems

F1	One hour
F2	Two hours
F3	Three hours
F4	Four hours
F5	Five hours
F6	Six hours

Two or three pump systems

Fil 2	Two hours
Fil 4	Four hours
Fil 6	Six hours
Fil 8	8 hours
Fil C	Continuous

Electrical Power Efficiency

Your new spa comes equipped with an electric heater. Following the directions listed below will ensure the most efficient operation:

NOTE: This method is only for spa usage under two hours a week.

- Keep the spa's operating temperature 5°F below the desired usage temperature when not in use. One or two hours before use, set the temperature to the desired temperature.
- If the spa usage exceeds two hours a week, the set temperature should remain at the desired usage temperature.

Allowing the water temperature to lower more than 10°F below the desired usage temperature and reheating it prior to usage will cause the heater to operate longer than it normally would maintaining the desired temperature. Doing this will increase your operating cost and makes your heater work more than necessary.

Diagnostic Messages

Message	Meaning	Action Required
No message on display	1) Spa temperature is unknown. 2) Spa is in Economy or Sleep mode. 3) Power has been cut off to the spa.	1) After pump has been running for 2 minutes temperature will be displayed. 2) In Economy or Sleep mode, the pump may be off for hours outside a filter cycle. If you wish to see the current spa temperature, either switch to Standard mode or turn Jets1 on for at least two minutes. 3) The control panel will be disabled until power returns. Spa settings and time of day will be preserved for 30 days with a battery back-up.
BUF	Internal problem detected.	Repair required. Contact your dealer or service organization.
dr	Insufficient water detected in heater. Spa will be shut down for 15 minutes.	Check water level in spa. Refill if necessary. Make sure pumps are been primed and filter cartridges are clean. Press any button to reset or wait 15 minutes and spa will automatically reset. If message spa does not reset, call your dealer or service organization.
dry **dY**	Insufficient water detected in heater. Spa is shut down. (Displays on third occurrence of dr message.)	Follow directions for dr message and press any button to reset spa. Spa will not automatically reset when dry or dY is displayed.
Ec	Indicates heater is in Economy Mode.	None.
--F or --C	Temperature unknown	After the pump has been running for two minutes, the temperature will be displayed.
HL **HFL**	A difference in readings between temperature sensors has been detected indicating a possible water flow problem.	Make sure spa is filled to proper level and that pumps are primed and filter cartridges are clean. If message does not reset, call your dealer or service organization.
IC **ICE**	Potential freeze condition detected.	No action required. The pumps and the blower will automatically activate regardless of spa status.
LF	Persistent low flow problems. Heater is shut down, but other spa functions continue to run normally. Displays on the fifth occurrence of the HL or HFL message within 24 hours.	Follow action required for HL or HFL message. Heating capacity of the spa will not reset automatically. Press any button to reset.
OH **OHS**	Overheat protection. The spa has shut down. One of the sensors has detected that the spa water is 110°F.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. At 107°F, the spa should automatically reset. If spa does not reset, shut off the power to the spa and call your dealer or service organization.

Message	Meaning	Action Required
HH **OHH**	Overheat protection (spa is shutdown). One sensor has detected 118˚F (48˚C) at the heater.	DO NOT ENTER THE WATER! Remove the spa cover and allow spa to cool below 107˚F (42˚C). Press any button on the topside display to reset spa. If spa will not reset after spa has cooled, turn off power for approximately 30 seconds and then turn power back on. If display message is repeated then shut the power off to the spa and call your dealer or service organization.
Pr	When your spa is first actuated, it will go into priming mode.	The priming mode will last for up to four minutes and then the spa will begin to heat and maintain the water temperature in the Standard mode.
SF	Safety Suction. Spa is shut down.	The display will show SF when a vacuum switch closes. All functions will turn off and the system will be disabled until a panel button is pressed.
SL	Indicates heater is in Sleep Mode.	None.
SA **Sb** **SNA** **Snb**	Spa is shut down. The sensor that is plugged into the sensor "A" or "B" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)
Sns **Sn**	Sensors are out of balance. • If this is alternating with the temperature, it may just be a temporary condition. • If the display shows only this message (periodically blinking), the spa is shut down.	Contact your dealer or service organization.
ST	Indicates heater is in Standard Mode.	None.
Stby	Pressing a button combination on the user panel has activated Standby Mode.	Press any button to leave Standby Mode and return to normal operation.

Jets

Almost all of the jets in your spa are adjustable. Rotating the face of an adjustable jet to the left (counter-clockwise) will decrease the amount of water flow through the jet. Rotating the face of an adjustable jet to the right (clockwise) will increase the amount of water flow through the jet. (See example shown below.)

Neck jets adjust in the opposite directions (counter-clockwise to increase, clockwise to decrease).

Diverter Knobs

Diverter knobs are 1" and 2" knobs located around the top of your spa. They allow you to divert water through jets from one side of the spa to the other, or in most cases from floor jets to wall jets. This is accomplished by rotating the diverter knob to the left (counterclockwise), decreasing the amount of water flow through a section of jets. To increase the amount of water flow through the other section of jets, rotate the handle to the right (clockwise).

Hydro Streamer Waterfall

Your spa includes six or eight streamer waterfalls. When the booster pump is on, turn the 1" diverter knob. The waterfall jets will start immediately.

The waterfall jets are not adjustable. Do not turn the jet faces because you may accidentally remove them.

Always shut off water to the hydro streamer jets before you place the cover on the spa. Water from the hydro streamer jets sprays in an arc that is higher than the top surface of the spa. When water from the hydro streamer sprays the bottom of the cover, it will collect and run to the edge of the spa and drip over the top.

Clear Water Plan

This section is intended for new spa owners with no experience with water chemistry. Everyone's experience with maintaining water quality is different, but there are some general concepts you need to know.

Water maintenance is not difficult, although it requires regular attention. The most important thing to understand about taking care of your spa water is that preventive action is much easier than correcting water quality issues.

Contents of this section:

The Key to Clear Water

Excellent water quality is a simple matter of four things:

Regularity

Clear water requires regular maintenance. Establish a routine based on a regular schedule for your spa water maintenance.

Maintaining your water quality helps the enjoyment of your spa and extends your spa's life by preventing damage from neglect and chemical abuse.

See page 24 for the schedule of recommended maintenance.

Filtration

Cleaning your filter regularly is the easiest and most effective single thing you can do to keep your water clear.

A clogged or dirty filter will cause the heater and pump to work harder than they need to, possibly causing them to fail.

The spa's heating system will only function with the proper amount of water flow through the system.

See page 22 for filter cleaning instructions.

Sanitation

Sanitizers kill bacteria and viruses and keep the water clean. A low sanitizer level will allow microbes to grow quickly in the spa water.

We recommend using either chlorine or bromine as your sanitizer.

See page 20 for learn how to use sanitizer.

Chemical Balance

You will need to test and adjust the chemical balance of your spa water. Although this is not difficult, it needs to be done regularly.

Depending on your choice of sanitizer, you need to test the level of calcium hardness, total alkalinity, and pH.

See page 20 for learn how to balance your spa water.

Testing and Adjusting Spa Water

You have two types of testing methods to choose from:

- The **reagent test kit** is a method which provides a high level of accuracy. It is available in either liquid or tablet form.
- **Test strips** are a convenient testing method commonly used by spa owners.

Balancing the Total Alkalinity

Total alkalinity (TA) is the measure of the total levels of carbonates, bicarbonates, hydroxides, and other alkaline substances in the water. TA can be considered a "pH buffer". It is the measure of the ability of the water to resist changes in pH level.

The recommended total alkalinity is 80 - 120 ppm.

If the TA is too low, the pH level will fluctuate widely from high to low. Low TA can be corrected by adding "pH-Alkalinity Up".

If the TA is too high, the pH level will tend to be too high and may be difficult to bring down. High TA can be corrected by adding "pH-Alkalinity Down".

When the TA is balanced, it normally remains stable, although adding water with high or low alkalinity will raise or lower the TA level.

Balancing the Calcium Hardness

Calcium hardness (CH) is a measure of the total amount of dissolved calcium in the water. Calcium helps control the corrosive nature of the spa's water and is why soft water is not recommended. The low calcium content of soft water is very corrosive to the equipment and can cause staining of the spa shell.

The recommended calcium hardness is 150 - 200 ppm.

If the CH is too low, add "Liquid Hardness Increaser".

If the CH is too high, dilute the spa water with soft water or, if this is not available, add "Stain and Scale Defense".

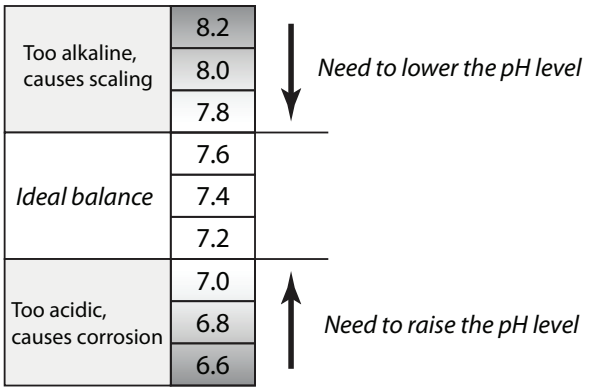
When the CH is balanced, it normally remains stable, although adding soft water or very hard water will raise or lower the CH level.

Balancing the pH

The pH level is the measure of the balance between acidity and alkalinity.

If the pH is too low, it can cause corrosion of metal fixtures and the heating element. Low pH can be corrected by adding pH-Alkalinity Up.

If the pH is too high, it can cause scaling by allowing metals or minerals to form deposits and stain spa surfaces. High pH can be corrected by adding pH-Alkalinity Down.



Testing For:	Ideal Range (ppm)		Chemicals To Use:	
	Minimum	Maximum	To Raise	To Lower
Total Alkalinity	80	120	pH-Alkalinity Up	pH-Alkaliity Down
Calcium Hardness	150	200	Liquid Hardness Increaser	Stain and Scale Defense
pH	7.4	7.6	pH-Alkalinity Up	pH-Alkaliity Down

Sanitation

After you fill your spa, you need to decide which chemical sanitizer you wish to use. Consult your Coleman® Spas dealer for the right decision with regards to your lifestyle and spa usage.

We recommend either **bromine** or **chlorine** as your sanitizer. Both work well when maintained regularly.

DO NOT use trichlor. Trichlor is very acidic and the hot temperature of the spa causes it to dissolve too quickly. It will cause damage to your spa and will void your warranty.

Sanitizers kill bacteria and other organic waste by breaking them down to non-harmful levels and are filtered out.

Make sure you follow all instructions as directed by the container or by your dealer.

Whichever plan you decide on, follow it completely and don't take shortcuts. It will provide you with clean, safe, clear spa water with a minimum of effort.

Using Chlorine as a Sanitizer

If you choose to use chlorine as a sanitizer, only use granulated chlorine, not liquid chlorine. We recommend you use only "Chlorinating Granules".

Once a week, check the chlorine level using either a test strip or a reagent kit. See the table on the following page for the ideal range.

Add one or two tablespoons of "Chlorinating Granules" to the spa water weekly. Note that chlorine dissipation rate will be faster at higher water temperatures and slower at lower temperatures.

When you add chlorine, open all of the jets and run the spa at high speed with the cover open for at least 30 minutes.

Follow the maintenance schedule on page 24.

Using Bromine as a Sanitizer

Bromine is a very effective sanitizer that produces low chemical odors. Unlike chlorine, it can break down bacteria and other impurities to a safe level with a low burn-out rate.

Bromine is available in both granulated and tablet form. Use granulated bromine to establish your bromine base. Use tablets to maintain it.

When you begin with fresh water, add 2 ounces of sodium bromine. Open all of the jets and run the spa at high speed. This is your base bromine level as the tablets will take a while to dissolve.

Add two ounces of Oxidizer Shock. Open all of the jets and run on high speed with the cover half open for at least 30 minutes.

Place three or four bromine tablets into a floating bromine dispenser.

Follow the maintenance schedule on page 24.

Testing For:	Ideal Range (ppm)		Chemicals To Use:	
	Minimum	Maximum	To Raise	To Lower
Chlorine level	2.0	4.0	Chlorinating Granules	
Bromine level	5.7	10.0	Go Brom	

Shocking the Water

In addition to using a chemical sanitizer, you will periodically need to shock the water. Shocking the water helps remove burned-out chemicals, bacteria, and other organic material from your spa's water and improves your sanitizer's effectiveness.

Do not use chlorinating shock, which will damage your spa's jets and pump seals. The only shock you should use is an Oxidizer Shock. It is an easy way to maintain either chlorine or bromine chemical plans.

For best results use the directions below.

Add one ounce of Oxidizer Shock:

- Once a week
- After heavy bather loads
- If water has a strong odor

Spa must be running with all of the jets on high for 30 minutes with the cover open. If necessary, repeat oxidizer shock in 30 minute intervals.

Chemical Safety

Read and follow all printed instructions listed on bottles and packages. Failure to follow chemical directions may result in serious injury, sickness, or even death.

Do not exceed chemical dosages as recommended in the Clear Water Plan or on chemical bottles and packages.

Never change chemical brands or types without completely draining, flushing and thoroughly cleaning the spa and cover first.

Never mix chemicals together.

Do not allow chemicals to come in contact with skin, eyes or clothing. Remove and wash clothing that may have been exposed to chemical contact prior to wearing them again.

Inhaling or ingesting chemicals will cause serious injury, sickness, or even death.

Chemicals must be stored completely out of the reach of children in an area that is well vented, cool, and dry. Failure to provide a proper area for chemical storage may result in serious injury, sickness, fire explosion and even death. Do not store your chemicals inside the equipment area of your spa.

Filter Cleaning

The filter is the part of your spa that removes the debris from the water and needs to be cleaned on a regular basis to maximize your spa's filtering performance and heating efficiency.

In addition to spraying off the filter weekly to remove surface debris, your filter should be deep cleaned periodically to dissolve scale and particles that get lodged deep within the filter fibers and impede the filtration process. Even if the filter looks clean, scale and particles can clog the fibers and prevent water from flowing through the filter resulting in the most common spa problem—no heat, caused by a dirty filter.

We recommend you clean your filter once a month and replace it once a year or as necessary.

1. Remove the filter by turning it counterclockwise, unscrewing the bottom threads, then pulling it up and out.
2. Place the dirty filter into a bucket of water deep enough to cover the filter. Add 8 oz of a "Liquid Filter Cleaner" to the bucket of water.

   Note: It is a good idea to keep a spare filter to use in the spa while the dirty filter is being deep cleaned. This way, you can rotate the filters and both will last longer.
3. Soak the filter for a minimum of 24 hours.
4. Spray the filter with a water hose. Spray each pleat carefully.
5. Reinstall the filter. Do not overtighten.

Bather Load

"Bather Load" is the term used to describe the number of people using a spa, combined with the length of usage, and the frequency of usage. All these factors have a great effect on the spa water. The higher the bather load, the more chemicals need to be added and a longer filtration time will be needed.

All versions of the Clear Water Plan are designed for spas with average bather load (3 to 4 people, 15 minutes of usage, three times a week at 100 degrees). If your bather load exceeds these guidelines, and you experience water quality problems, increase the amount of filtration first, (go to the next higher filtration number) then if water quality is still not adequate, consult the advice of your Coleman® dealer for additional chemical or system recommendations. Be sure to give them your bather load information.

Starting the Spa with Fresh Water

Damage to the spa or spa's components from improper chemicals or chemical usage is not covered under the spa's warranty.

Prior to filling a spa for the first time, or after a routine draining, you will want to follow this start-up plan to extend water life and performance.

As with all chemical dosages listed in these Clear Water Plans, start-up dosages are intended for 500-gallon spas. Please adjust the chemical dosages to the capacity of your particular spa.

1. Clean the surface of the spa with spa-safe multi-purpose cleaner.
2. Apply a protective coat of spa-safe "Fast Sheen" to the acrylic surface.
3. Fill the spa to the proper water level with normal tap water. (Do not use soft water.)
4. Use test strip and balance the spa water.
    - Adjust total alkalinity (acceptable range is 80-120ppm).
    - Adjust pH if necessary (between 7.2 to 7.8).
5. Pour in 16 oz of "Metal Protector" in the center of the spa.
6. Add Stain and Scale Prevention.
7. Add either chlorine or bromine (but not both).

Chlorine: Add two tablespoons of spa "Chorine Granules" to the spa water.

Bromine: Add 2 oz of "Go Brom" or sodium bromide to establish a bromine base.

Add 2 spa bromine tablets to the bromine floater.

Set floater opening at #2.

8. Turn on jets for 15 minutes. Leave spa uncovered during this time.
9. Put cover on spa and allow to heat up to desired temperature.

Water level is very important to the operation of your spa. If the water level is too low or too high, your spa will not operate properly. The water level should be about six inches from the top when the spa is not being used.

Maintenance Schedule

Each time you refill the spa	Follow the section "Starting the Spa with Fresh Water".
Prior to each use	Test the spa water using either test strips a reagent test kit. Adjust chemical levels as necessary.
Once a week	Test the spa water using either test strips a reagent test kit. Adjust chemical levels as necessary.
Once a month	Deep clean your spa's filter. (Follow filter cleaning instruction at beginning of Clear Water Plan)
Every two to four months	Drain and clean your spa with "Multi-Purpose Cleaner". Polish the acrylic surface with "Fast Sheen". Clean and treat spa cover, pillows, and Cal Select cabinet (if equipped) with "Cover Protector". Refill your spa, following the section "Starting the Spa with Fresh Water".
Once a year	Replace filter cartridges if the pleats appear frayed. If you have an ozonator, replace the ozone cartridge.

We recommend that your spa water be changed every 4 to 6 months. You may find the need to change your spa water more frequently with heavy use. When empty, your spa should be cleaned with a non-abrasive cleaner, such as a spas all surface cleaner, and then rinsed thoroughly.

Troubleshooting Water Clarity Problems

Problem	Probable Causes	Possible Solutions
Cloudy Water	• Dirty filter • Excessive oils / organic matter • Improper sanitization • Suspended particles / organic matter • Overused or old water	• Clean filter • Shock spa with sanitizer • Add sanitizer • Adjust pH and/or alkalinity to recommended range • Run jet pump and clean filter • Drain and refill the spa
Water Odor	• Excessive organics in water • Improper sanitization • Low pH	• Shock spa with sanitizer • Add sanitizer • Adjust pH to recommended range
Chlorine Odor	• Chloramine level too high • Low pH	• Shock spa with sanitizer • Adjust pH to recommended range
Musty Odor	• Bacteria or algae growth	• Shock spa with sanitizer – if problem is visible or persistent, drain, clean and refill the spa
Organic buildup / scum ring around spa	• Buildup of oils and dirt	• Wipe off scum with clean rag – if severe, drain the spa, use a spa surface and tile cleaner to remove the scum and refill the spa
Algae Growth	• High pH • Low sanitizer level	• Shock spa with sanitizer and adjust pH • Shock spa with sanitizer and maintain sanitizer level
Eye Irritation	• Low pH • Low sanitizer level	• Adjust pH • Shock spa with sanitizer and maintain sanitizer level
Skin Irritation / Rash	• Unsanitary water • Free chlorine level above 5 ppm	• Shock spa with sanitizer and maintain sanitizer level • Allow free chlorine level to drop below 5 ppm before spa use
Stains	• Total alkalinity and/or pH too low • High iron or copper in source water	• Adjust total alkalinity and/or pH • Use a stain and scale inhibitor
Scale	• High calcium content in water – total alkalinity and pH too high	• Adjust total alkalinity and pH – if scale requires removal, drain the spa, scrub off the scale, refill the spa and balance the water • Use a stain and scale inhibitor

Cleaning and Maintenance

Spa Cover

Important! Keep the spa covered when not in use!

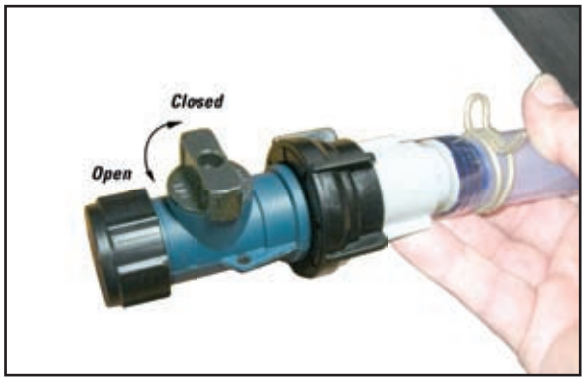
- Covered spas will use less electricity in maintaining your set temperature.
- Covering your spa will protect your spa's finish from the sun's ultraviolet rays.
- You are required to keep the spa covered to maintain warranty coverage.
- Covering your spa helps prevent children from drowning in the spa.

See the manual enclosed with your cover for instructions on mounting the locks and how to lock and unlock the cover.

In addition, while the spa cover is rigid, it is not designed to support any weight. Therefore, as a safety precaution and to preserve the life of your cover, you must not sit, stand, or lie on it, nor should you place objects of any kind on top of it.

Draining Your Portable Spa

1. Turn off the power at the breaker.
2. Remove all filters.
3. Using a Phillips screwdriver, remove the screws to the access panel and open it.



4. Locate hose ending with the ¾ inch hose-bib fixture.
5. Unscrew the cap.
6. Hook up the female end of a garden hose to the drain fitting.
7. Place the other end of the garden hose where you would like the water to drain to.
8. Turn the valve on the hose-bib fixture to open the drain.
9. Let spa drain completely, then remove garden hose.
10. Turn the valve on the hose-bib fixture to close the drain.
11. Replace the cap.

Cleaning and Replacing the Filter

Filtration is one of the most important steps you can take to ensure clean, clear water. It is far less expensive to fix water clarity problems by filtering your spa than by using excessive amounts of chemicals, excessive filtration times, or by water replacement.

See the section "Clear Water Plan" for more information on cleaning your filter.

Winterizing (Cold Climate Draining)

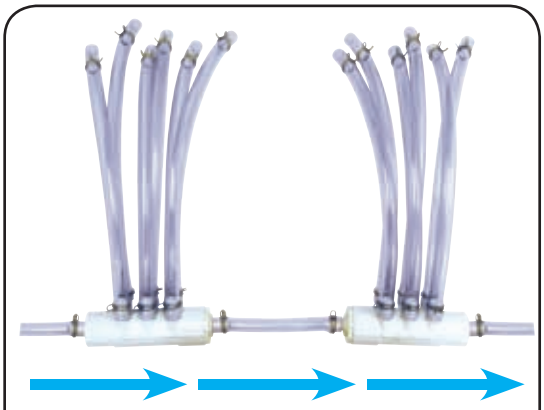
In many areas of the country, the temperature drops below 32˚F (0°C). We recommend that you always have your spa full of water and running at normal spa temperatures (80˚F to 100˚F, 26.7°C to 37.8°C). This will help reduce the risk of freezing in your spa and your spa's equipment.

Warning: If you find the need to drain your spa, please be aware of the potential of freezing in your spas equipment and plumbing. Even if the directions below are followed perfectly, there is no guarantee that your spa will not suffer freeze damage.

Freeze damage is not covered by your warranty.

1. Open all filter covers.
2. Remove the filter baskets and filters.
3. Drain your spa completely as described in the instructions above.
4. Vacuum water from the spa's main drain fitting with a wet/dry vacuum.
5. Remove drain plugs from the front of the pumps.
6. Disconnect the unions from both sides of the pump.
7. Blow any remaining water out of the jets and equipment area with the wet/dry vacuum.
8. Cover your spa with a good spa cover and an all-weather tarp to ensure that neither rain nor snow enters the spa.

NOTE: All manifolds are plumbed in series directly to the main drain (see example at right), making it easier to remove water and reducing the possibility of freeze damage.



Continuous water flow and drainage

Vacation Care

You can leave your spa unattended for up to two weeks if you follow these instructions.

ALWAYS lock your cover using the cover locks if you plan to be away from home and the spa is filled with water.

1. Set the spa to Sleep Mode. (See instructions on page 13 for changing modes.)
2. Following the water quality instructions starting on page 18, adjust the pH.
3. Shock the water (add either chlorine or bromine sanitizer).
4. When you return, check and adjust the pH and shock the water.

If you will not be using your spa for longer than 14 days and a spa maintenance service is not available, we strongly recommend you drain or winterize your spa.

Cleaning Your Spa

Spa Cover and Pillows

Due to the constant punishment your spa cover and pillows receive, you should protect them by applying spa-safe Vinyl and Leather Cleaner as part of your monthly maintenance plan. It is specifically designed to protect spa covers and pillows from chemical and ultraviolet light damage. It accomplishes this without leaving an oily residue behind that is normally associated with common automotive vinyl protectants.

Warning: ***Do not*** use automotive vinyl protectants on spa covers or pillows. These products are generally oil-based and will cause severe water clarity issues that are difficult to correct.

Spa Shell

Each time you drain your spa, before you refill it you should clean your spa shell with spa-safe All-Purpose Cleaner and apply a protective coat of Fast Sheen.

Spa-safe All-Purpose Cleaner is a low detergent, non-abrasive cleaner specifically formulated to clean the spa without damaging its acrylic finish.

Spa-safe Fast Sheen is a non-oil based wax that is specifically formulated to protect the spa's finish from the chemicals and minerals associated with normal spa use.

1. Spray Multi-Purpose Cleaner directly to the spa's finish.
2. Wipe clean with a soft cloth.
3. Repeat on heavily calcified areas.
4. Wipe spa thoroughly with a wet sponge, rinsing often in a bucket of clean water.
5. Allow the spa to dry completely.
6. Apply a coat of Fast Sheen to the spa's entire finish with a soft cloth or sponge.
7. Allow Fast Sheen to dry until white and powdery.
8. Buff clean with a soft cloth, rotating frequently.

IMPORTANT: Do not use any of these products on spas full of water. Only apply to clean, cool, dry surfaces. Incorrect product usage may cause water clarity issues.

Removing and Reseating the Pillows

You can remove the pillows for cleaning and maintenance quickly and easily.

Grab the lower edge of the pillow with both hands firmly and pull up. As you do this, the pillow inserts will pop out of the holes.

Reseat the pillows by aligning the pillow inserts with the holes and striking the pillow hard enough to insert the pegs back into the holes.

Jet Removal and Replacement

Rotate the jet face counterclockwise until you feel some resistance.

Continue to rotate the jet for another quarter turn. You will feel the jet snap out of position. Continue to rotate the jet as you pull it out of the jet well.

To replace jets, insert the jet in the jet well and push and rotate it clockwise until you feel it snap into position. When the jet face can be rotated freely, it is properly seated.

Entertainment System

iPod™ Docking Station

The iPod™ docking station is fully integrated with your spa. The docking station is tailored to the needs of Apple iPod™ owner, although it will play most other MP3 players. The docking station is specially configured to accommodate currently available iPods, using five interchangeable inserts in the docking bay.

The docking station comes with its own owner's manual. It describes parts included, installation, and proper use. Owners of this system must read the manufacturer's instructions prior to operating this unit. The instructions are shipped inside the docking station behind the remote control.

The instructions contained in this manual describe only basic functions. See the manufacturer's operating instructions for other features and functions. We strongly recommend that you read the manufacturer's instructions prior to operating this unit.

Observe the following precautions for your entertainment system:

- Make sure that hands are dry before coming in contact with this or any electronic option.
- Always close the protective door.

Although the marine grade entertainment system is encased in a plastic housing with weather seals, the system is **water resistant** and **NOT waterproof**. You must take every precaution to keep this system dry!

Water damage is not covered under warranty.

Note: The system includes an MP3 docking station and remote control and does NOT INCLUDE an MP3 player such as an iPod.

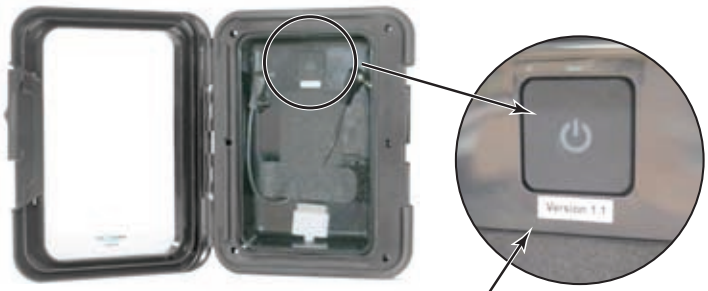
Synchronizing the Remote Control with the Docking Station

Before you can use the remote control with the docking station, they need to be synchronized.

Note: Synchronizing instructions apply to both Aquatic AV model AQ-DM-4B and model AQ-DM-4UBT. Both the unit and the remote must be marked "Version 1.1" to be compatible. The docking station has a small label inside the unit and the remote is marked on its reverse side. If your docking bay or remote do not have these labels, contact customer support at 1-800-225-7727 for instructions on synchronizing your remote and docking station.

Before you begin, make sure the docking bay is OFF.

If the red **Power** light inside the docking bay is on, press it once to turn it off.

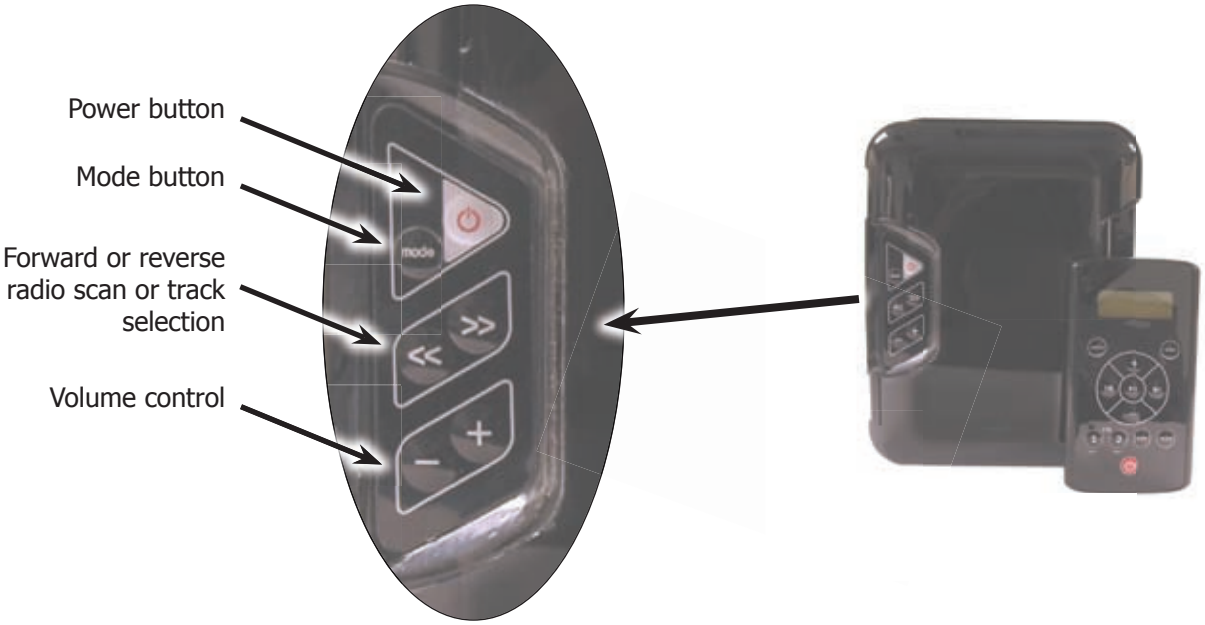


1. Press the red **Power** button on the remote.
2. Press and hold the **Mode** button on the remote. The display on the remote will read PAIR.
3. While still holding the **Mode** button, press the **Power** button inside the docking station.

If this is done correctly, the display on the remote will read WELCOME or show a mode position such as RADIO, IPOD, or AUX IN.

Using the Docking Station Panel Controls

Model AQ-DM-4UBT has basic controls built into the front panel. They are briefly described below. For further information, see the manufacturer's manual.



Appendix

Replacement Parts

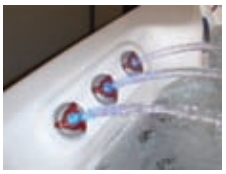
Jets	
COMSB 5" Maxi Swirl Stainless steel: PLU21703697 Red: PLU21703698-RED	
COMFSB 5" Maxi Flow Spin Stainless steel: PLU21703695 Red: PLU21703696-RED	
COMFB 5" Maxi Flow Stainless steel: PLU21703693 Red: PLU21703694-RED	
COPSJB 5" Power Storm Spin Stainless steel: PLU21703701 Red: PLU21703702-RED	
COPSRB 5" Power Storm Riffle Stainless steel: PLU21703703 Red: PLU21703704-RED	

Jets	
COPSTB 5" Power Storm Twister Stainless steel: PLU21703705 Red: PLU21703706-RED	
COPDB 5" Power Storm Directional Stainless steel: PLU21703699 Red: PLU21703700-RED	
PSM 5" Power Storm Massage Stainless steel: PLU21703717 Red: PLU21703717-RED	
comfb 3 1/2" Micro Flow Directional Stainless steel: PLU21703691 Red: PLU21703992-RED	
COEB 2" Euro Stainless steel: PLU21703689 Red: PLU21703690-RED	
COEDB 2" Euro Directional Stainless steel: PLU21703688 Red: PLU21703687-RED	
OZ 2" Ozone Stainless steel: PLU21700828	

Waterfall

3 Port Water Feature

PLU21800850



Valves

2” Diverter Valve Silver Handle with Dark Gray Cap and Wall fitting

PLU21300820

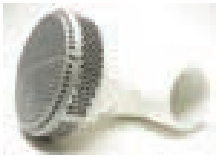
1” Diverter Valve Silver Handle with Dark Gray Cap and Wall Fitting

PLU21300810

Drains

Main Drain, Super Hi Flo Suction 2 1/2” Silver

PLU21400400



Pillow

Pillow

ACC01401500

Filters

Filter Cartridge 75 Sq Ft, Anti-Bacterial

FIL11100212

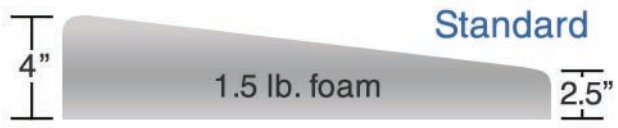
Filter Cartridge, 50 Sq Ft, Anti-Bacterial

FIL11100202

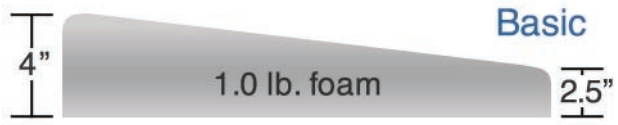
Lights

7 LED 2” Light

LIT16100214



The standard spa cover is designed with a tapered height, angling downward from four inches in the center to two-and-a-half inches on the sides to drive off rain and prevent water from pooling. Filled with 1.5 lb. foam.



The basic spa cover is designed with a tapered height, angling downward from four inches in the center to two-and-a-half inches on the sides to drive off rain and prevent water from pooling. Filled with 1 lb. foam.

Spa Covers			
All Coleman spa covers are hunter green.			
Size	**Slope**	**Fits spa model**	**Part number**
93” x 93”	5” - 3”	CO-866L, CO-866B, CO-866DL	COV9393STD53BR1.5
84” x 84”	5” - 3”	CO-756L, CO-756B	COV8484STD53GR1.5

84” x 64”	4” - 2.5”	CO-534L	COV6484BAS42GR1.0
72” x 72”	4” - 2.5”	CO-628T	COV7272BAS42GR1.0
78” round	4” - 2.5”	CO-518R	COV78RDBAS42GR1.0
74” x 84”	4” - 2.5”	CO-637L	COV7484BAS42GR1.0

Spa Cover Lock and Key	
Used for all Coleman spa covers.	
Spa cover lock and key (Ideal Covers) ACC01800025	

Replacement Cabinet Panels	
CO-518R	
Door Panel 30" X 30" Cal Select Mahogany (CSM)	WOO27519431-CSM
Door Panel 30" X 30" Cal Select Mist (CSMI)	WOO27519431-CSMI
Side Panel 30" X 30" Cal Select Mahogany (CSM)	WOO27519432-CSM
Side Panel 30" X 30" Cal Select Mist (CSMI)	WOO27519432-CSMI

CO-534L	
Back Panel 26" X 67-1/2" Choice Mahogany (CCM)	WOO27519422-CCM
Back Panel 26" X 67-1/2" Choice Mist (CCMI)	WOO27519422-CCMI
Door Panel 26" X 40-1/4" Choice Mahogany-CCM	WOO27519420-CCM
Door Panel 26" X 40-1/4" Choice Mist-(CCMI)	WOO27519420-CCMI
Front Access Panel 26" X 15-1/2" Choice Mahogany (CCM)	WOO27519421-CCM
Front Access Panel 26" X 15-1/2" Choice Mist (CCMI)	WOO27519421-CCMI
Side Panel 26" X 48-1/2" Choice Mahogany (CCM)	WOO27519423-CCM
Side Panel 26" X 48-1/2" Choice Mist (CCMI)	WOO27519423-CCMI
Corner Panel 26" X 8" radius Choice Mahogany (CCM)	WOO27519424-CCM
Corner Panel 26" X 8" radius Choice Mist (CCMI)	WOO27519424-CCMI

CO-756B / CO-756L	
Side Panel 7 ft. 28-1/2" X 67-1/2" Choice Mahogany (CCM)	WOO27519430-CCM
Side Panel 7 ft. 28-1/2" X 67-1/2" Choice Mist (CCMI)	WOO27519430-CCMI
Door Panel 28-1/2" X 40-1/4" Choice Mahogany (CCM)	WOO27519425-CCM
Door Panel 28-1/2" X 40-1/4" Choice Mist (CCMI)	WOO27519425-CCMI
Front Access Panel 7 ft. 28-1/2" X 15-1/2" Choice Mahogany (CCM)	WOO27519429-CCM
Front Access Panel 7 ft. 28-1/2" X 15-1/2" Choice Mist (CCMI)	WOO27519429-CCMI
Corner Panel 7ft. 28-1/2" X 8" Radius Choice Mahogany (CCM)	WOO27519428-CCM
Corner Panel 7ft. 28-1/2" X 8" Radius Choice Mist (CCMI)	WOO27519428-CCMI

CO-866B / CO-866L / CO-866DL	
Side Panel 8 ft. 28-1/2" X 76-1/2" Choice Mahogany (CCM)	WOO27519427-CCM
Side Panel 8 ft. 28-1/2" X 76-1/2" Choice Mist (CCMI)	WOO27519427-CCMI
Front Access Panel 8 ft. 28-1/2" X 20" Choice Mahogany (CCM)	WOO27519426-CCM
Front Access Panel 8 ft. 28-1/2" X 20" Choice Mist (CCMI)	WOO27519426-CCMI
Door Panel 8 ft. 28-1/2" X 40-1/4" Choice Mahogany (CCM)	WOO27519425-CCM
Door Panel 8 ft. 28-1/2" X 40-1/4" Choice Mist (CCMI)	WOO27519425-CCMI
Corner Panel 8 ft. 28-1/2" X 8" Radium Choice Mahogany (CCM)	WOO27519428-CCM
Corner Panel 8ft. 28-1/2" X 8" Radius Choice Mist (CCMI)	WOO27519428-CCMI

Troubleshooting

Symptom	Possible Causes	Possible Solutions
System / Power Problems		
System does not work	Power is turned off	Reset spa
Control pad and spa equipment do not operate	No electrical power to spa	Turn on or reset the GFCI circuit breaker. If this does not solve the problem, have a qualified electrician check the electrical service.
	The 20 or 30A fuse, depending on the system, has blown	Contact your dealer
The spa does not turn off	Spa is trying to heat up	Check the temperature setting is in Standard mode
	Spa is in filter cycle	Normal. No adjustment necessary
	Spa is in Standard mode	Check setting
Control panel displays a message	An error may have has occurred	See Diagnostic Messages on page 15 for message code meanings
GFCI breaker trips repeatedly	Improper wiring to spa or GFCI breaker is defective	Consult with a qualified electrician
	There is a defective component on the spa	Contact your dealer
Heat Problems		
Spa does not heat	Heating mode not selected	See control panel instructions on page 11
	Water level is too low	Add water to correct level
	No electrical power to spa	Turn on or reset the GFCI circuit breaker. If this does not solve the problem, have a qualified electrician check the electrical service.
	Heater is defective	Contact your dealer
	Gate valve is partially or fully closed	Open gate valves. Note: Never operate your spa with the gate valves closed!
Spa gets warm but does not get hot	Thermostat has been turned down	Set control panel to a higher temperature
	Insufficient filtration time	Increase filtration time
	Water level is too low	Add water to correct level
	No electrical power to spa	Turn on or reset the GFCI circuit breaker. If this does not solve the problem, have a qualified electrician check the electrical service.
	Dirty filter cartridge	Clean filter cartridge
	Gate valves closed	Open gate valves
	Spa cover improperly positioned	Align spa cover
Spa gets too hot	Filtration time is set too long	Reduce filtration cycles, especially during summer months

Symptom	Possible Causes	Possible Solutions
Water Problems		
Water is not clean	For all water clarity problems, see page 18.	
High water consumption	Very high evaporation or heavy splashing	Use the cover and refill as necessary
Low water stream from the jets	Running in FILTER mode - slow speed	Select high speed jets
	Block wall suctions or skimmer	Clean the wall suction/skimmer. Remove blockage
	Dirty filter	Clean filter and replace
	Jets are closed	Open jets
	Valves closed	Open valves
No water stream from the jets	Pump has airlock	Remove airlock by priming spa (page 10)
	Jets are closed	Open jets
	Power switched off, system off	Reset power
	Pump is defective	Contact your dealer
	Pump fluctuations	Low water. Check level on skimmer flap
Water leakage from below the spa	Check the connections and empty the hoses	Close or turn off empty cycle if necessary
Water Pressure Problems		
Jets surge on and off	Water level is too low	Add water to normal level
Jets are weaker than normal or do not work at all	Jet valves are partially or fully closed	Open jet valves
	Filter cartridge is dirty	See Cleaning the Filter
	Air is trapped in the pump	Open the air bleed valve on each pump's housing and allow air to bleed out of the system. Be sure to tighten each air bleed valve as soon as water starts to flow.
	The suction fittings are blocked	Remove any debris that may be blocking the suction fittings
	Gate valve is closed	Open gate valves. Note: Never operate your spa with the gate valves closed!
Air and Jets Problems		
No airstream from the jets	Air control not open	Open the control
	Jet spout opening not fixed properly	Check jet spout openings
	Jet spout opening missing	Check jets and replace as necessary
Light Problems		
Standard spa light does not work	Light bulb has burned out	Replace light bulb
	Lighting system is defective	Contact your dealer

Symptom	Possible Causes	Possible Solutions
Pump Problems		
Pump runs constantly – will not shut off	Problem with circuit board	Contact your dealer
Noisy pump	Water level is too low	Add water to normal level
	Block wall suctions or skimmer	Clean the wall suction/skimmer
	Damaged or worn-out motor block	Contact your dealer
	Clogged floor suction or skimmer	Clean floor suction or skimmer
	Leakage of air into suction line	Contact your dealer
	Debris is inside pump	Contact your dealer
	Gate valves are closed	Open gate valves. Note: Never operate your spa with the gate valves closed!
	Damaged or worn motor bearings	Contact your dealer
	Improper or defective wiring	Contact your dealer
Pump turns off during operation	Automatic timer has completed its cycle	Start the cycle again
	Pump has overheated due to the vents on the equipment door being blocked	Clear items away from vents
	The pump motor is defective	Contact your dealer
Pump has a burning smell while running	Damaged or worn motor bearings	Contact your dealer
Pump does not work	Power may be turned off	Reset power
	Pump has over heated	Let cool for one hour
	Incorrect or faulty wiring of electrical supply	Contact your dealer
	Switch is off	Auto reset after the motor has cooled down
	House circuit breaker tripped or in OFF position	Reset circuit breaker Contact your dealer
	Motor overload condition	Motor overload will reset automatically. If problem persists, contact your dealer
	Damaged electrical cord	Contact your dealer
	Pump cord not plugged in	Plug pump cord into red receptacle
	GFCI tripped or in OFF position	Reset GFCI

Limited Warranty

This limited warranty applies to Coleman portable spas manufactured after January 1, 2013, delivered in the United States and Canada, **sold online only**. It is administered by LMS for Coleman® spas.

Coleman® portable spas are warranted to be free from defects in material and workmanship. This warranty starts ***from date of manufacture*** and ends either by specified time-frame listed below, owner-transfer, relocation, or installation of any component other than by manufacturer. This warranty extends through the selling dealer to the original purchaser at the original site of installation.

Warranty Coverages

Coleman® spas are warranted for as follows:

Spa Shell -- Structural: Warranted against loss of water through the spa shell due to defects in materials and/or workmanship	7 years
Acrylic Interior Surface: Warranted against cracks, blisters, peeling, discoloration and delamination of interior surfaces	3 years
Equipment: Warranted against malfunction due to defects in materials and/or workmanship in the control system, pumps and air blowers	3 years
Plumbing and Wet Ends: Warranted against loss of water due to defects in material and/or workmanship	3 years
Cabinet and Panels: Warranted against cracking and warping. However, cabinet surface peeling, blistering, fading, or delamination are specifically excluded from this warranty.	3 years
Components: Warranted against malfunction due to defects in materials or materials in the manufacturer-installed heater and ozonator. Specifically excludes replacement ozone cartridge and the LED light source, which have a one year warranty.	3 years
Labor: No charge for labor to repair the defect during the warranty period, although providing access to effect the repair is your responsibility as the spa owner.	1 year

Warranty Performance

In the event of a malfunction or defect covered under the terms of this warranty, contact your selling dealer or call Coleman® Spa Customer Service at 888-772-4265 for warranty repairs.

Repairs and Replacement of Parts

There will be no charge for parts or labor on a covered item. However, the service agent may assess a reasonable travel or mileage charge per service call, which may include diagnostic time.

Spa Returns

If LMS determines that repairing a spa under warranty in the field is not feasible, LMS reserves the right to replace the spa with one equivalent or equal in value to the original merchandise. In the event of any return of the spa, all removal, replacement, installation and shipping costs are the responsibility of the spa owner.

Customer Satisfaction

In the event the consumer is unable to obtain satisfactory customer service from the selling dealer, written notification must be given to the LMS Customer Relations Department at 1462 East Ninth Street, Pomona, CA 91766 within 30 days of the reported failure.

Proration of Warranty

Relating to spa returns: Spas determined by LMS to be non-repairable will be replaced on a prorated basis with the same or a comparable unit. The user will be charged one percent of the current retail cost for each full month of ownership from the date of purchase through the date failure is determined to be non-repairable. This charge will be waived during the first twelve months of ownership.

Warranty Limitations and Exclusions

This warranty is void if the spa has been subject to negligence, alteration, misuse, abuse, repairs by non-authorized personnel, incorrect electrical installation, installation by unqualified personnel, installation without a permit if required by local codes, installation of any component other than by the manufacturer, acts of God (including, but not limited to, acts of nature and surrounding environments), and any other cases beyond the control of LMS.

This warranty does not apply to spas sold as special offers and events.

Examples of common acts invalidating this warranty include, but are not limited to:

- Use of spa in a non-residential application.
- Scratches caused by normal use.
- Operation of spas water temperature out of the normal operating range of 32˚F (0°C) to 118˚F (47.8°C).
- Damage caused by incorrect water level (low, overflow, etc.).
- Damage caused by extreme weather conditions (hot, cold, etc.).
- Damage caused by dirt, sand and calcium.
- Damage caused by clogged filter cartridges. See filter cleaning recommendations in this owner's manual.
- Damage caused by continued operation of this spa with either a known or an unknown problem.
- Damage caused by tri-chlor, acids, chlorine tablets, any floating chemical devices, or any spa chemicals not authorized by LMS.
- Damage caused by improper water chemistry. (High levels of chlorine, bromine, calcium, pH and other excessive chemical levels.)
- Damage caused by direct sunlight. Spas should always be covered when not in use.
- Damage caused as a result of failure to follow operating instructions as defined within this owner's manual.
- Damage caused by incorrect electrical installation, electrical brownout, voltage spikes, or operation of spa out of voltage range by more than ±10%.
- Spas improperly installed or placed on non-approved surfaces.

Although shell cracks, which are breaks in the shell that go all the way through, are covered by this limited warranty, cosmetic scratches, gouges and crazing are not considered cracks and are not covered.

The limited warranty applies only to spas normally used for personal, family or household purposes.

For relocating your spa without voiding your warranty, contact LMS Customer Service for relocation procedures.

Replaceable service items such as filters, light bulbs, pillows, and jet inserts are specifically excluded from the limited warranty.

Spa covers are delivered with their own manufacturer's warranty. For more information, please see their warranties in the owner's information package that was delivered with your spa for more information.

Equipment adjustments (such as pressure switch adjustments) are specifically excluded from this warranty.

Disclaimers

This limited warranty is made with the express understanding that the spa is not an essential device or medical device as defined under State and Federal Law. LMS shall not be liable for loss of use of the spa or other incidental or consequential costs, expense or damages, which may include but are not limited to removal of permanent deck or other custom fixtures or the necessity for crane removal. Any implied warranty shall have duration equal of the applicable warranty stated above. Under no circumstances shall LMS or any of its representatives be held liable for injury to any person or damage to any property, however arising.

Legal Remedies

This limited warranty gives you specific legal rights and you may have other rights, which may vary from state to state.

Customer Service

See your Coleman® dealer for a copy of the applicable warranty, details, and any questions you may have regarding the warranty coverage on your spa.

Warranty Registration

Easy Online Registration

Registering your new Coleman® Spa is quick and easy! It is important that you register your Coleman® Spa as soon as possible. By taking just a few quick minutes to register, you can enjoy:

- ***Product alerts***
- ***More efficient support***
- ***Quicker service***

Register now -- it's fast and it's easy!

1) Go to www.colemanspas.com/warranty/Registration.aspx

2) Fill in your information and click "Send Warranty Info"

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