

SPA TROUBLE SHOOTING GUIDE

2007

- Check incoming power at spa.
- Visual inspect cord, head and light on head, test reset button and or loose wires to the spa connection.
- Visual inspect control panel and check for any error messages on it.
- Check control panel plug to main board.
- If no light on topside (control panel) turn off spa and disconnect topside. Plug in a new top side. Turn spa back on wait 3 minutes for spa to reset or until **PR** (primer mode) display. After spa has completed **PR** cycle you can begin testing the new control panel.
- Press once for low speed on pump, press twice for high speed on pump, press again to turn pump off.
- **Check ozonator** connection on main board. On low speed and after 3 to 5 minutes the ozonator's thin blue light will go on.
- Press light once to turn light on and twice to turn light off.
- Check display on control panel for any error message.
- Check spa **settings** (ST) default standard mode on spa **press up arrow once then light once to change modes** (ST) standard (SL) sleep and (EC) economy.
- **Filtration mode** (F2) default **press up arrow once then jets once to change modes** (F2) spa will run 2 hours every 12 hours for filtration, (F4) 4 hours every 12, (F6) 6 hours every 12, (F8) 8 hours every 12 or (FC) on display for continuous filtration.

Open control panel on spa (main board)

- Check incoming power for loose wires at main connection to board.
- Check **dip switches** at the bottom right corner of board **for 110 voltage** number 2 and number 10 will be **Up** or **On** position,
- **For 220-voltage** number 2 **only Up** or **On** position number 10 must be down or off position.
- Press all plugs to board pump, light, ozonator, and topside.
- Visual check for any burn fuses.
- Check for loose wires.
- Check for any burning circuits on main board.
- Turn spa off for 3 minutes then turn spa back on
- Spa will reset to the original settings at (ST) standard mode and (F2) filtration 2 hours every 12 hours.
- Several numbers will appear on display then after 2 minutes PR will display for (primer mode) at low speed if ozonator is installed on spa light should go on.

Pump

- Test pump (topside panel) press the Jet button once for low speed, press twice for high speed then press again to turn pump off.
- Pump leaking from seals replace pump.
- Pump making noise replace pump.
- Broken impeller replace pump.
- Pump not changing speeds check connection and plug at board. Unplug pump then plug back in and test again.
- 3.6 PER FORMANCE PACK - SEE TECHNICAL BULLETIN DATED 12/14/06 (ATTACHED)

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Top Side Control

- Check incoming power to control Topside. Topside should be illuminated.
- Unable to read control display check connection into board.
- Any signs of rust or water inside topside control, replace topside.
- Control buttons not changing or hard to push, replace topside.
- Test all functions on spa jets, light up and down temp.

Ozonator

- Check ozonator hose connection from jet to check valve and from check valve to ozonator.
- Visual inspect check valve and water on the line, unplug the hose from ozonator and test check valve.
- Ozonator light will go on 3 minutes after spa is energizer and working at low speed.

Light

- Check light bulb, wire and connection to main board.
- Check light housing for any leaks or crack's.

Heater

- Spa trips breaker instantly means you're heater element is damaged. Complete Heater is to be replaced.
- **To test heater:** turn off the spa then disconnect the heater element. Be sure that when you loosen the top nut from copper legs you hold the tied nut at the bottom where the wire from heater is welded, turn spa back on, if spa starts working fine replace heater.
- When removing heater element disconnect the copper legs attached to main board but keep mounted with your new heater.
- **NOTE:** When installing the new heater be sure to hold the nut at the bottom of the heater connection to prevent breaking the support wire from heater.

Sensor's

- Topside panel display - **SL** (sensor left), **SR** (sensor right) sensor is off. **SN** a sensor is out of balance. Out of balance may be a temporary condition.
- **Four (4) buttons** topside you will have (two) 2 - 24" sensors. Turn spa off, replace one of the sensors and check display panel for message if message still appears, turn spa off and replace second sensor. Turn spa back on, there should be no message on the topside display panel.
- **Two (2) buttons** topside you will have (one) 1 sensor with (two) 2 probes; the High limit sensor and the Temp sensor.
- Turn off spa, replace sensor the turn spa back on, there should be no message on the topside display panel.

Scrapers

- Scrapers are used for rubbing out the rough areas in the spas.
- Holding the scraper upright using the narrow edge, short strokes back and fourth until surface is smooth to the touch.

