System PN 53641-03
Balboa Instruments

System Model # GS5-GS510S-RCA-3.0k

PCBA PN
GS510S – 53642-02

Base Panels
"Serial Standard" style panels
Manufacturer Settings GS510S

INPUT
• 230V; 3 wires (line, neutral, ground)

OUTPUTS
• 230V Pump 1, dual speed (high speed: 15-minute timeout; low-speed; 4-hour timeout)
• 230V Pump 2, single speed (15-minute timeout)
• 230V Blower (15-minute timeout)
• 230V Ozone (ozone runs with low-speed of Pump 1)
• 10V Spa Light (4-hour timeout)
• Heater: 3.0kw @ 230V
Circuit Board Configuration

Single Service Connection Shown Above - One 16 Amp or One 32 Amp Service. For 32 Amp service, DIP Switch A10 may be changed to the “High Amp” setting.

Converting from Single Service to Dual Service - Two 16 Amp Services:

1. Remove the white wire connecting pins J26 and J32.
2. Insert and secure the second brown wire into the #1 slot of the terminal block and the second blue wire into the #2 slot of the terminal block.
3. DIP Switch A10 may be changed to the “High Amp” setting.
DIP Switches and Jumpers

Switchbank A

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<th>Switch</th>
<th>Function Description</th>
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<td>A1</td>
<td>Test Mode OFF</td>
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<td>A2</td>
<td>Panel Option</td>
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<td>A9</td>
<td>Circ Pump OFF</td>
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<td>A10</td>
<td>Low Amp</td>
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DIP Switch Key

A 1 ............... Test Mode (normally Off)
A 2 ............... In “ON” position, long SER STD Panel
                   In “OFF” position, Balboa SER STD Panel
A 3 ............... In “ON” position, Pump2 enable
                   In “OFF” position, Pump2 disable
A 4 ............... Aux Freeze (must be OFF)
A 5 ............... In “ON” position, Two-speed pump 1 when in Circ Mode (A9 On)
                   In “OFF” position, One-speed pump 1 when in Circ Mode (A9 On)
A 6 ............... In “ON” position, 50Hz operation
                   In “OFF” position, 60Hz operation
A 7 ............... In “ON” position, Blower enable
                   In “OFF” position, Blower disable
A 8 ............... In “ON” position, temperature is displayed in degrees Celsius
                   In “OFF” position, temperature is displayed in degrees Fahrenheit
A 9 ............... In “ON” Position, 24 Hour Circ Pump
                   In “OFF” position, no circ pump
A 10 .......... In “ON” Position, heater is disabled while any high-speed pump or blower is running (Low amperage, single 16A service)
               ............... In “OFF” position, heater can run while any/all high-speed pumps or blowers are running (High amperage, dual 16A or single 32A service)
Ozone Connections

Ozone connector configuration for 240VAC 50Hz:

Black or Brown Line Conductor
Empty
White or Blue Neutral Conductor
Empty

Note: A special tool is required to remove the pins from the connector body once they are snapped in place. Check with your Balboa Account Manager for information on purchasing a pin-removal tool.
Panel Configurations

Electronic Spa Controls
Standard 7 Digital System

Blower
Jet 1
Jet 2
Light
Mode
Warm
Cool

Temperature: 39.5°C