

GS501 Hot Sheet

System PN 53340-04
Balboa Instruments

System Model # GS5-GS501-RCA-3.0k

PCBA PN
GS501 – 53341-02

Base Panels
"Duplex" and "Mini bath" style panels



53340_04-97_A.PDF 07/18/2006

Manufacturer Settings GS501

INPUT

- 230V; 3 wires (line, neutral, ground)

OUTPUTS

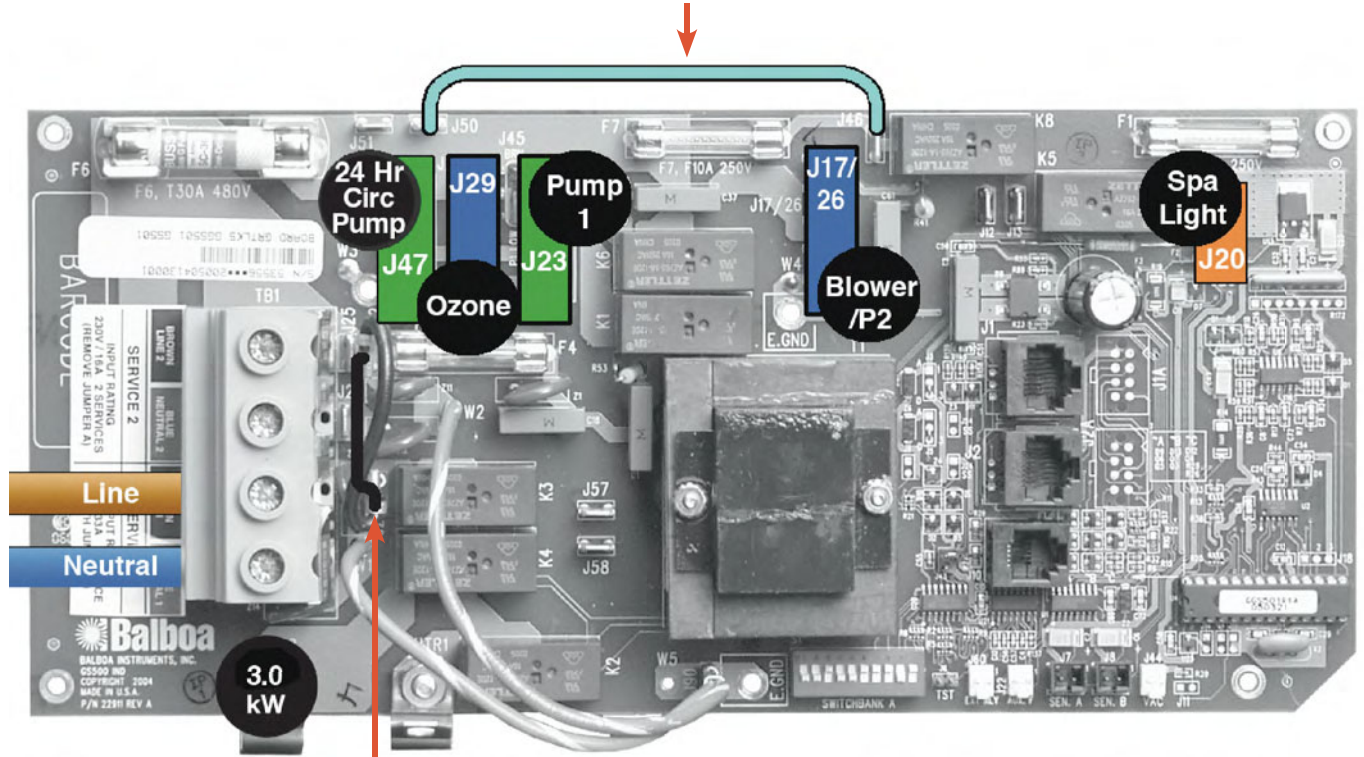
- 230V Pump 1, dual speed (high speed: 15-minute timeout; low-speed; 4-hour timeout)
- 230V Blower or Pump 2, single speed (15-minute timeout; low-speed; 30-second for purge cycle w/filter)
- 230V Ozone (ozone runs with low-speed of Pump 1)
- 10V Spa Light (4-hour timeout)
- Heater: 3.0kw @ 230V

* Note: If your system has a Pump 2 instead of a blower, please install a black wire from J50 to J46 (see next page).



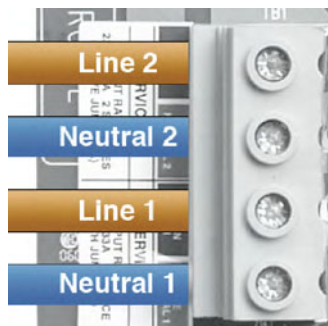
Circuit Board Configuration

If using Pump 2, install black wire from J50 to J46.



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:



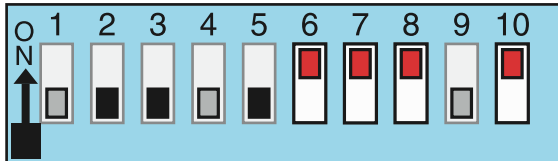
Remove the white wire connecting pins J26 and J32.

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.

DIP Switch A10 may be changed to the "High Amp" setting.

DIP Switches and Jumpers

Switchbank A



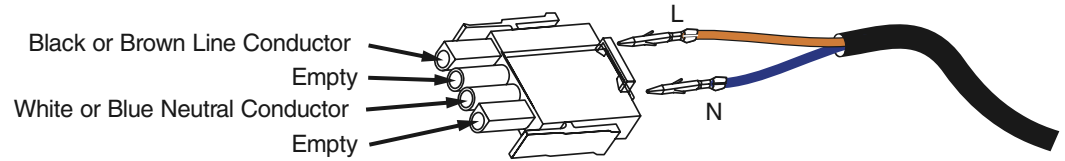
- | | |
|------------------------------|--------------------------|
| A1, Test Mode OFF | A7, Blower ON |
| A2, Mode Change | A8, Degrees C |
| A3, Duplex Panel | A9, Circ Pump OFF |
| A4, Must be OFF | A10, Low Amp |
| A5, 1-speed P1 w/Circ | |
| A6, 50 Hz | |

DIP Switch Key

- | | | |
|------|-------|---|
| A 1 | ..... | Test Mode (normally Off) |
| A 2 | ..... | In "ON" position, Always in Standard mode |
|  | ..... | In "OFF" position, Allow mode change |
| A 3 | ..... | In "ON" position, use Mini Panel |
|  | ..... | In "OFF" position, use Digital Duplex or Light Duplex panel |
| 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 is enabled |
|  | ..... | In "OFF" position, Blower is disabled |
| 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 |
|  | ..... | (Optional external relay board will allow 3 ^o shut off for 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) |

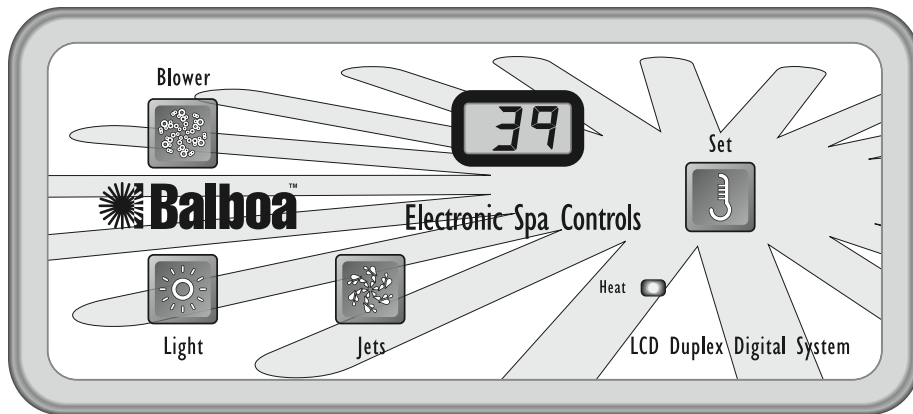
Ozone Connections

Ozone connector configuration for 240VAC 50Hz:

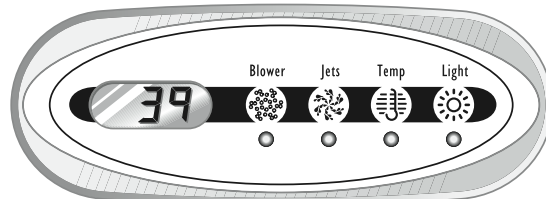
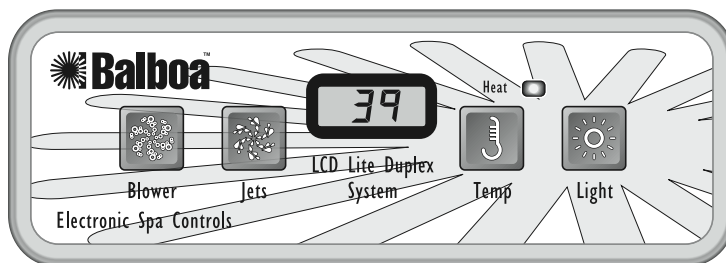


Note: A special tool is required to remove the pins from the connector body once they are snapped in place. Check with your Balboa Account Manager for information on purchasing a pin-removal tool.

Panel Configurations



—> DIP switch A3 in the "OFF" position



————— DIP switch A3 in the "ON" position

Several configurations of the panels above can be created as custom parts.
Separate Temperature Up and Down buttons can be done if no Blower is present.
Jets 2 button available if no Blower is present.

There are two Master Panel connectors on the board.