

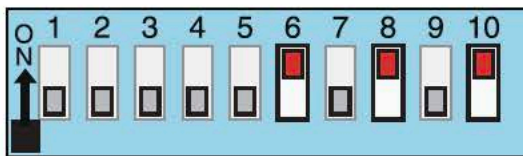
WARNING: Main Power to system should be turned OFF BEFORE adjusting DIP switches.

WARNING: Persistent Memory (J43) must be RESET to allow new DIP switch settings to take effect. (See Persistent Memory page)

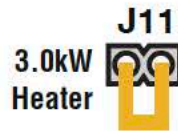
SSID #

100
63
43

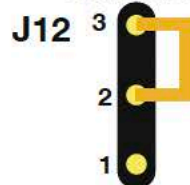
Switchbank A



- | | |
|--------------------------|------------------------|
| A1, Test Mode OFF | A6, 50 Hz |
| A2, Mode changes allowed | A7, J17/26, P1, TE, LT |
| A3, Duplex Panel | A8, Degrees C |
| A4, Aux Freeze | A9, Non-Circ Mode |
| A5, 2-speed P1 | A10, Low Amp mode |



GS501Z Software



Wiring Color Key

- Neutral (Common) AC Connections
- Special AC Connections
- Line AC Connections
- 10 Volt Connections
- Relay Control Wires

Board Connector Key

- 1 Typically Line voltage
 - 2 Typically Line voltage for 2-speed pumps
 - 3 Neutral (Common)
 - 4 Ground
- Note flat sides in connector

Panel Button Assignments

- 1=J17/26
- 2=Pump 1
- 3=Temp
- 4=Light




Panel Button Positions



SSID 100 63 43

Base Model GS501Z

DIP Switch Key


- A1 Test Mode (normally OFF)
- A2 "ON" position: Standard mode only
"OFF" position: Std/Ecn/Sleep mode changes allowed
- A3 "ON" position: use Mini Panel * 
"OFF" position: use Digital Duplex or Light Duplex panel  
- A4 Aux Freeze (must be OFF)
- A5+A9 Pump 1 speeds and Circ Modes:

Alert:

Blower or 1-speed Pump 2 is required, connect to J17/26.
For no Blower and no Pump 2, use GS500Z or GS515Z.

A5	A9	Circ Mode	Pump 1 Speed
OFF	OFF	Non-circ	2-speed
ON	OFF	Circ "acts like Pump 1 low" (filters/polls/ect)	1-speed
OFF	ON	24 hours with 3°F shut-off	1-speed
ON	ON	24 hours with 3°F shut-off	2-speed

- A6 "ON" position: 50Hz operation
"OFF" position: 60Hz operation
- A7 "ON" position: Button layout will be: Pump 1, Light, Temp Down, Temp Up with J17/26 on 1-button Aux panel **
"OFF" position: Button layout will be: J17/26, Pump 1, Temp, Light
- A8 "ON" position: temperature is displayed in degrees Celsius
"OFF" position: temperature is displayed in degrees Fahrenheit
- A10 "ON" position: heater is disabled while any high-speed pump or blower is running (low amperage mode)
"OFF" position: heater can run while any/all high-speed pumps or blowers are running (high amperage mode)

* Panels with button layout  are not compatible when either A3 or A7 is ON.

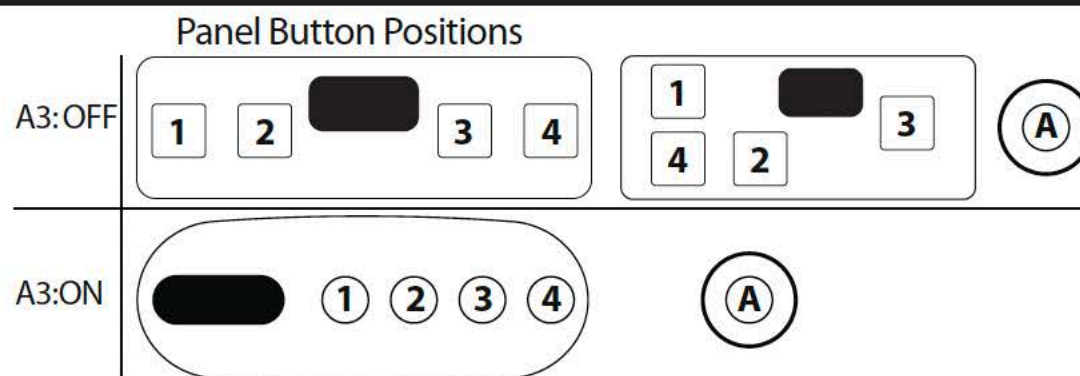
** J2 panel connector on Main Board must be a 6-pin connector. IR Receiver is not compatible.

Jumper Key

- J11** If using 3kW or higher wattage heater, jumper can be set in either position, but may perform better on Pins 1 and 2. If using 2.5kW or lower wattage heater, jumper must be set on 1 Pin only.
- J12** **Factory set. DO NOT MOVE.**
Jumper must be on Pins 1 and 2 for GS51xZ/GS52xZ/GS5xxSZ/GS5xxDZ software.
Jumper must be on Pins 2 and 3 for GS50xZ software.
- J43** When jumper is placed on 2 pins during power-up, system will reset persistent memory. Leave on 1 pin only to enable persistent memory feature.

WARNING:

- Setting DIP switches incorrectly may cause abnormal system behavior and/or damage to system components.
- Refer to Switchbank illustration on Wiring Configuration page for correct settings for this system.
- Contact Balboa if you require additional configuration pages added to this tech sheet.



Panel Button Assignments

A7: OFF	1=J17/26 2=Pump 1	3=Temp 4=Light
A7: ON	1=Pump 1 2=Light	3=Temp Down 4=Temp Up

Aux=J17/26