GL8000 Hot Sheet

System PN 53254_01 (Mach 2) Balboa Instruments

System Model # GL8-GL8000-RCA-3.0K

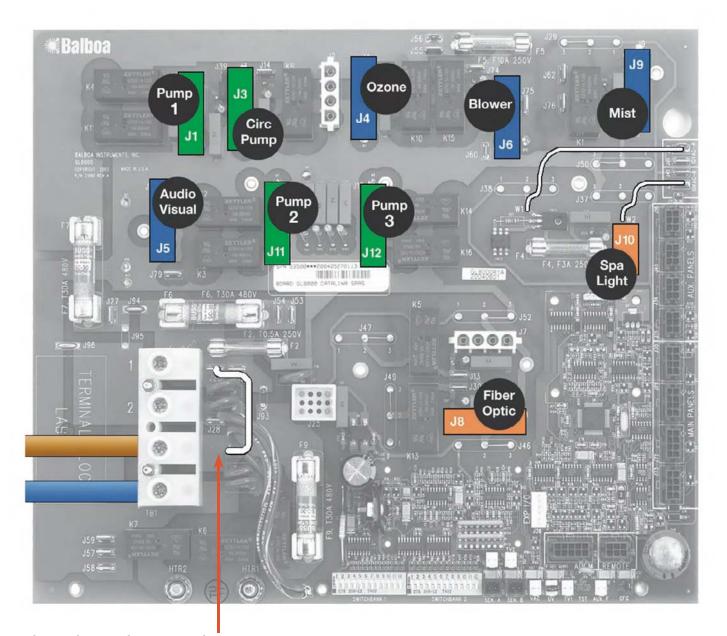
Base PCBA PN GL8000 - 53255

Base Panels
ML 700 – PN 52649
ML 900 – PN 52654

The ML 700 Panel may require Aux panels for adequate functionality.

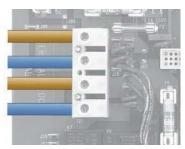


Circuit Board Configuration



Single Service Connection Shown Above

Converting from Single Service to Dual Service:

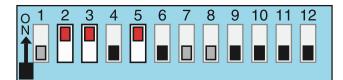


Remove the white wire connecting pins J26 and J23, then insert the second set of incoming wires provided.

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.

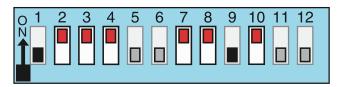
DIP Switches

Switchbank A



A1, Test Mode OFF A2/A3, 3 H.S. Pumps + Blower w/Heater A4, 12 Hour Time A5, Degrees C A6, Short Timeouts A7, Cleanup Cycle OFF A8, 1Hr O₃ Disable OFF A9/A10, No Circ Pump A11, Ozone w/P1 low A12, Memory ON

Switchbank B



B1, Pump 2 2-Speed B2, N/A B3, Blower Enabled B4, F/O Light ON B5, Option Disabled B6, Scrunching OFF B7, Spa Light On/Off B8, Spa Light Button B9, Pump 3 2-speed B10, Pump 3 Enabled B11, Mister Disabled B12, Mist Aux Pnl OFF

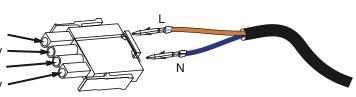
Ozone Connection

Ozone connector configuration for 240VAC 50Hz:

Black or Brown Line Conductor

Empty
White or Blue Neutral Conductor

Empty

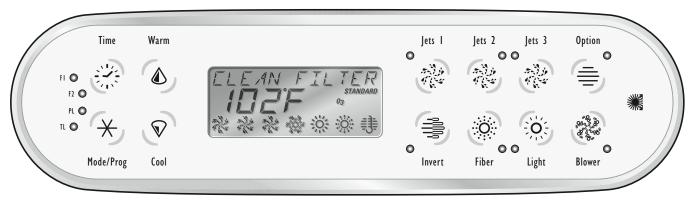


Note: A special tool is required to remove the pins from the connector body once they are snapped in place. Check with your Balboa Account Manager for information on purchasing a pin-removal tool.

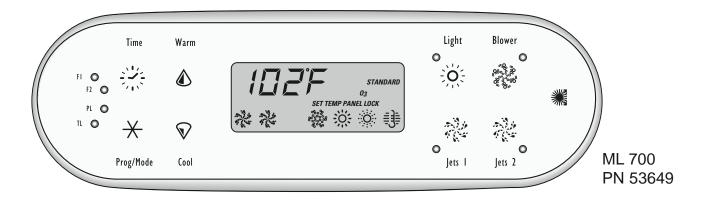
DIP Switch Definitions

DIP Switch Key A 1 Test Mode (normally Off) A2 and A3 See Figure 1 to control amp draw r	equirem	nonte	A2	А3	# of Hi-Speed Pumps/Blower with Heater
A 4 In "ON" position, displays time in 24 hours (military time			OFF	OFF	0
In "OFF" position, displays 12 hour time			ON	OFF	1
A 5 In "ON" position, displays temperature in Celsius		Celsius	OFF		2
In "OFF" position, displays temperature in Fahrenheit			ON	ON	Up to 4
A 6 In "ON" position, Equipment timeout 30 min					
(4 hrs for Pump 1-Low)					Figure 1
In "OFF" position, Equipment timeout 15 min (2 hrs for					_
Pump 1-Low)		(A9 A1	_	Circ Pump
• ,	A 7 In "ON" position, Cleanup Cycle – 30 min after spa			0	Behavior
use/timeout, P1-Low & Ozone run for 1 hour.			OFF OF	F I	No Circ Pump
In "OFF" position, NO Cleanup Cycle			ON OF		24 Hr
A 8 In "ON" position, Ozone suppressed for 1 hour after			OFF O	N 24	Hr w/3° Shut-Off
pump or blower button press.			ON O	N A	cts like P1 low
In "OFF" position, NO Ozone suppression				(Fil	ter Cycles, Polls)
A9 and A10 See Figure 2 for Circ Pump Behavior settings					
A 11 In "ON" position (non-circ mode operation)					
Pump 1 is two-speed, Ozone is Ol			•	•	
(in any circ mode) Pump 1 is one-speed, Ozone is ON with circ pump					
In "OFF" position (non-circ mode operation) Pump 1 is two-speed,					
Ozone is ON with Pump 1-Low					
(in any circ mode) Pump 1 is two-speed, Ozone is ON with circ pump A 12 Persistent Memory Reset (used when the spa is powering up)					
A 12 Persistent Memory Reset (used wi	nen the	spa is powering	ig up)		
B 1 In "ON" position single-speed		D0 055		DO ON	
B 1 In "ON" position, single-speed	D4 055	B8 OFF	o (and Henri Char	B8 ON	
Pump 2	B4 OFF	No separately-co		r light; sp	pa light enabled on
Pump 2 In "OFF" position, two-speed	B4 OFF		d EitherLigh	r light; sp	pa light enabled on s; fiber light (not
Pump 2		No separately-co	d EitherLigh with spa lig	r light; sp nt buttons ght (at an Spa light	pa light enabled on s; fiber light (not y intensity) ght and fiber light
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Panel Configuration



ML 900 PN 52654



Auxiliary panels are available in the following configurations:

Infrared Remote which has a separate connector on the board.

- 4-Button
- 2-Button
- 1-Button

Configuration of the 4-Button and 2-Button Aux Panels can be done for custom applications.

1-button Aux panels are available in 4 different versions.

There are four Aux Panel connectors on the board.

Panel "Scrunching" on the ML 900 (requires custom panel overlays)

With DIP switch B6, unused buttons on an ML 900 can be "scrunched" in a custom configuration or the unused positions can be left blank.

Scrunching moves the buttons in a counter-clockwise direction from the bottom row to the top row, on the right side of the display. The result is that all missing buttons or gaps appear on the bottom row, just to the right of the display.

Note: Some button positions MUST be used in order to perform certain functions. For instance, the Jets 2 button and the Blower button are used in certain button press combinations, and need to be available to a user, even if they are labeled with a different name.

See reference cards for details.