GL8000 Hot Sheet

System PN 53254_03 (Mach 2) Balboa Instruments

System Model # GL8-GL8000-RCA-3.0K Universal AC Service Option

Base PCBA PN GL8000 - 53255-01

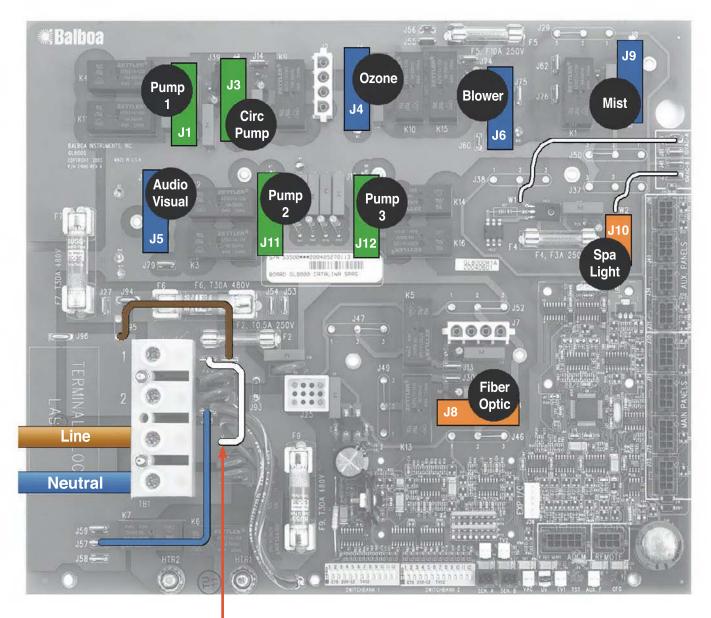
Base Panels ML700 – PN 52649 ML900 – PN 52654

The ML700 Panel may require Aux panels for adequate functionality.



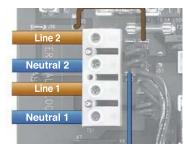
Circuit Board Configuration

Universal AC Service Option



Single Service Connection Shown Above

Converting from Single Service to Dual Service:



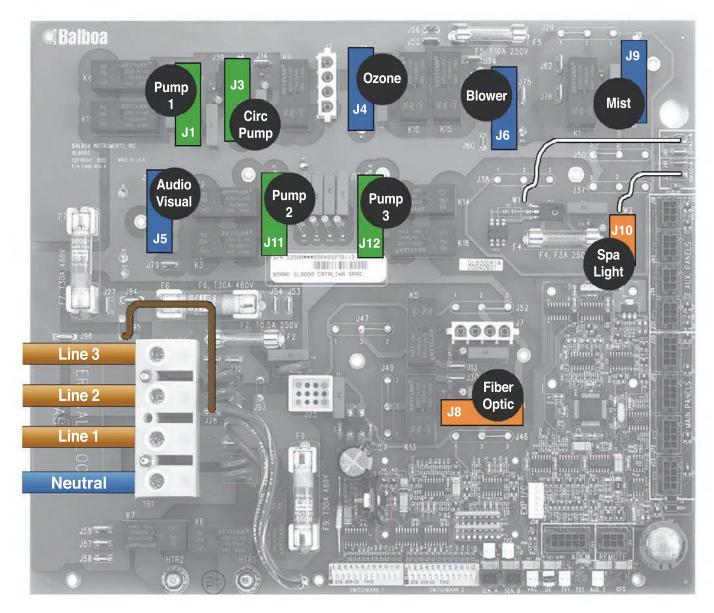
Remove the white wire connecting pins J26 and J23, then insert the second set of incoming wires provided.

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 Switch A2 should be set to the "High Amp" setting.

Circuit Board Configuration

Universal AC Service Option



Converting from Single Service to 3-Phase Service:

Important: The 3-phase service MUST include a neutral wire.

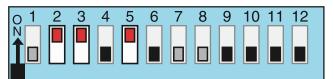
Remove the white wire connecting pins J26 and J23. Remove the blue wire connecting pins J57 and J28.

Move the brown wire to J28.

DIP Switch A2 should be set to the "High Amp" setting.

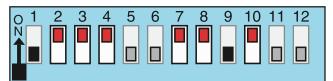


Switchbank A



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

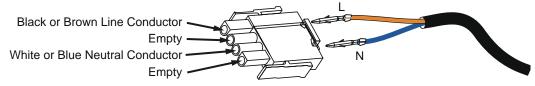


B1, Pump 2 2-Speed B2, N/A B3, Blower Enabled B4, F/O Light ON B5, Option Disabled B6, Scrunching OFF

- 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:



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.

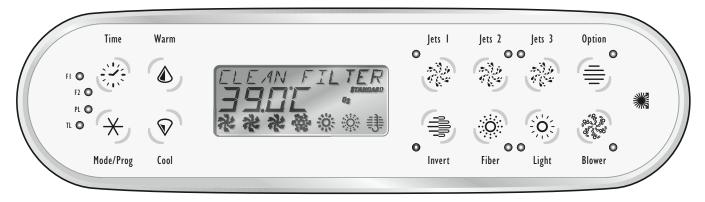
DIP Switch Definitions

DIP Switch Key

1

DIP Switch Key								# of Hi-Speed
А	1	Test Mode (normally Off)						Pumps/Blower
		d A3 See Figure 1 to control amp draw re	auirom	onte		A2	A3	with Heater
A			•			OFF	OFF	= 0
Λ		In "OFF" position, displays the in 24 hours (mintally time)					OFF	
А		In "ON" position, displays temperati		Celsius		ON OFF	ON	
	Ŭ					ON	ON	
А	6	In "ON" position, Equipment timeou						
	Ũ	(4 hrs for Pump 1-Low)					Figure 1	
		In "OFF" position, Equipment timeo	ut 15 n	nin (2 hrs for Γ				
		Pump 1-Low)		X			_	Circ Pump
А	7	In "ON" position, Cleanup Cycle - 3	30 min	80 min after spa		9 A1	0	Behavior
		use/timeout, P1-Low & Ozone run f			OF	F OF	F	No Circ Pump
		In "OFF" position, NO Cleanup Cycle					F	24 Hr
А	8	In "ON" position, Ozone suppressed	d for 1			FF O	V 24	4 Hr w/3° Shut-Off
		pump or blower button press.			10	N ON	I A	Acts like P1 low
	In "OFF" position, NO Ozone suppression						(F	ilter Cycles, Polls)
A9 and A10 See Figure 2 for Circ Pump Behavior settings								
A	11	In "ON" position (non-circ mode ope			_			Figure 2
		Pump 1 is two-speed, Ozone is ON						
		(in any circ mode) Pump 1 is one-speed, Ozone is ON w						1
		In "OFF" position (non-circ mode or	peration					
		Ozone is ON with Pump 1-Low						
^	10	(in any circ mode) Pump 1 is two-speed, Ozone is ON with circ pump Persistent Memory Reset (used when the spa is powering up)						
А	12	Persistent Memory Reset (used wh	ien the	spa is powerir	ig i	up)		
								-
В	1	In "ON" position, single-speed		B8 OFF			B8 (או
		Pump 2	B4 OFF		ntro	lled fiber	-	spa light enabled on
		In "OFF" position, two-speed	D4 011	both SpaLight and EitherLight buttons; fiber light (not wheel) comes on with spa light (at any intensity)				
		Pump 2						
В		N/A	B4 ON	No separately-co				light and fiber light
В	3	In "ON" position, Blower enabled		spa light; fiber lig				h separately controlled; r light enabled on both
		In "OFF" position, Blower disabled		EitherLight buttor	ns; s	spa light	Fibe	erLight and EitherLight
В	4	See Figure 3 for Fiber Optic and		comes on with fit	ber l	ight		ons; spa light enabled on Light buttons only
_	_	Color wheel control					Spa	- · · ·
В		In "ON" position, Option enabled - I	B11 mu	st be OFF				Figure 3
_		In "OFF" position, Option disabled						
В								
	(ML900 scrunching enabled ML550 / 700 Jets 3 replaces Blower)							
Б								
В	7 In "ON" position, Spa Light operation is On/Off							
D		8 See Figure 3 for Spa Light Enable						
B B								
Б	9	In "OFF" position, two-speed Pump 3						
R	10							
0							, parior	
в	11	In "ON" position, Mister enabled – E		t be OFF				
0		In "OFF" position, Mister disabled						
в		2 In "ON" position, Mister or Option replaces Blower button on Aux panels – B5 or B11 is ON						
-		In "OFF" position, no button replace						
		, , , , , , , , , , , , , , , , , , , ,						

Panel Configuration



ML900 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 ML900 (requires custom panel overlays)

With DIP switch B6, unused buttons on an ML900 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.