


P/N 54356HC1
MODEL VS501Z



BALBOA INSTRUMENTS INC.
TUSTIN, CA.

Certified to comply with the limits for a class B computing device pursuant to subpart J of part 15 of the FCC rules

60 HZ

MODEL: VSP-VS501Z-CCAH
PAT. NO. 4618797



Balboa Instruments Incorporated
VS501Z SYSTEM WIRING DIAGRAM
PART NUMBER 54356HC1
06/12/07

USE COPPER CONDUCTOR ONLY. #6 AWG MIN. WIRE = 90°C EMPLOYER UNIFORMEMENT DES CONDUCTEURS DE CUIVRE.

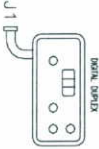
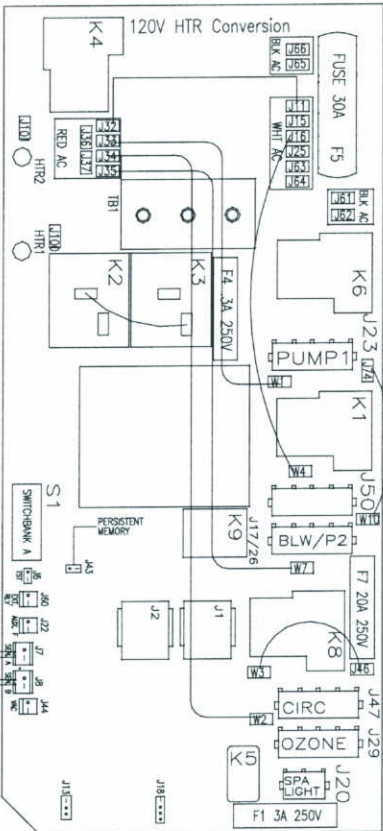
TORQUE RANGE FOR TB1: 27-30 IN. LBS

FOR SUPPLY CONNECTIONS, USE CONDUCTORS SIZED ON THE BASIS OF 60°C AMPACITY BUT RATED MINIMUM OF 90°C.

OUTPUT VOLTAGE CONVERSION
120V OR 240V CONVERSION INDICATED BY DASHED LINES

LOCATION	DEVICE	VOLTAGE	RATING	CONNECT FROM	CONNECT TO
J17	BLOWER	120/240V	15/12A	W7	WHT AC
J23	ZSP PUMP	120/240V	15/12A	W1	WHT AC
J20	SPA LIGHT	12V	12W	W1	WHT AC
J29	OZONE	120/240V	1A	W2	WHT AC
J47	CIRC PUMP	120/240V	5A	W2	WHT AC
HTR1-2	HEATER	240/120V	5.5kW/1.4kW	W2	WHT AC

SPAL TOTAL OUTPUT AMPERAGE DRAW NOT TO EXCEED MAX. INPUT RATING OF



BLOWER/PUMP2 CONFIGURATION
BLOWER: MOVE WIRE W3 TO J46.
PUMP2: MOVE WIRE W3 TO J62.

- 120V TO 240V HEATER CONVERSION INSTRUCTIONS:
1. CONVERSION MUST BE PERFORMED BY A QUALIFIED, LICENSED ELECTRICIAN, HARDWARE ONLY.
 2. DISCONNECT FROM POWER & REMOVE WIRE/CORRO.
 3. REMOVE WIRE CONNECTED TO J-11 & J-32 COMPLETELY AND DISCARD.
 4. INSTALL 240V POWER LINE TO TB1 TERMINAL BLOCK.
 5. SET DIP SWITCH 10 TO "OFF" POSITION.

*A disconnecting means must be installed within sight (1.52 m) from the inside walls of the pool, spa, or hot tub.

CONNECT ONLY TO A CIRCUIT PROTECTED BY A CLASS A GFCI.

"A" DIP SWITCH SETTINGS

MODE	TEST MODE	MODE CHANGES	PANEL OPTION	AUX. FREEZE (MUST BE "OFF")	CIRC. P1 1SPD	60HZ/50HZ	CONTROL PANEL FOR BLOWER
OFF	ON	ST/EC/SL	MINI	N/A	1SPEED	60HZ	MAN PANEL
ON	YES	Standard	N/A	N/A	2SPEED	50HZ	AUX. PANEL
NO	YES	Standard	N/A	N/A	60HZ	50HZ	DEC F
OFF	ON	Standard	N/A	N/A	NON CIRC./24HR CIRC.	50A/30A	DEC C

ALL UNUSED SWITCHES SHOULD BE OFF