BALBOA water group

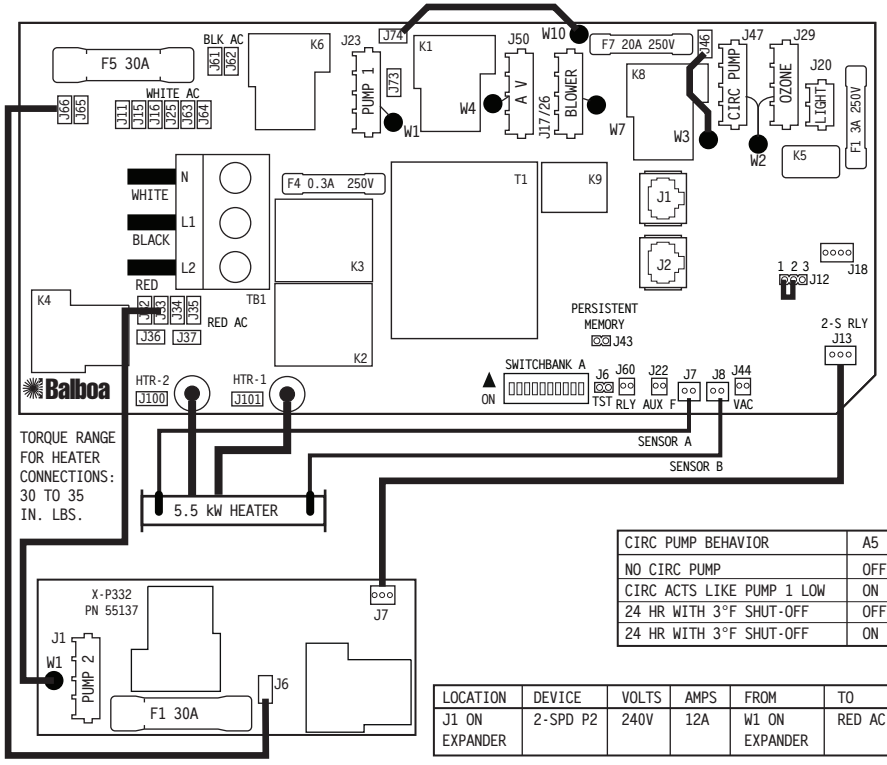
VS520DZ – PN 56016-01

03/20/09

CONNECT ONLY TO CIRCUITS PROTECTED BY A CLASS A GFCI.

A DISCONNECTING MEANS MUST BE INSTALLED WITHIN SIGHT FROM THE EQUIPMENT AND AT LEAST 5 FEET (1.52 M) FROM THE INSIDE WALLS OF THE POOL, SPA, OR HOT TUB.

CONTROL PANEL TO J1



USE COPPER CONDUCTORS ONLY.
EMPLOYER UNIQUEMENT
DES CONDUCTEURS DE CUIVRE.
#6 AWG MIN. WIRE= 90°

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

TORQUE RANGE FOR MAIN TERMINAL BLOCK: 27-30 IN. LBS.

SWITCHBANK A OFF (DOWN) / SWITCHBANK A ON (UP)

TEST MODE OFF	◀ A1	TEST MODE ON
SEE TABLE 1	◀ A2	SEE TABLE 1
N/A (MUST BE OFF)	◀ A3	N/A (MUST BE OFF)
AUX FREEZE (MUST BE OFF)	◀ A4	AUX FREEZE (MUST BE OFF)
SEE CIRC PUMP BEHAVIOR	◀ A5	SEE CIRC PUMP BEHAVIOR
60HZ	◀ A6	50HZ
J17/26 DISABLED	A7 ▶	J17/26 ENABLED
DEGREES F	◀ A8	DEGREES C
SEE CIRC PUMP BEHAVIOR	◀ A9	SEE CIRC PUMP BEHAVIOR
SEE TABLE 1	A10 ▶	SEE TABLE 1

ALL UNUSED SWITCHES SHOULD BE OFF

TABLE 1

# OF HIGH-SPEED PUMPS AND/OR BLOWER WITH HEATER	A2	A10
0 HIGH-SPEED PUMP OR BLOWER	OFF	OFF
1 HIGH-SPEED PUMP OR BLOWER	ON	OFF
2 HIGH-SPEED PUMPS OR 1 HIGH-SPEED PUMP AND BLOWER	OFF	ON
3 HIGH-SPEED PUMPS OR 2 HIGH-SPEED PUMPS AND BLOWER	ON	ON

CIRC PUMP BEHAVIOR	A5	A9	PUMP 1 SPEEDS
NO CIRC PUMP	OFF	OFF	2-SPEED
CIRC ACTS LIKE PUMP 1 LOW	ON	OFF	1-SPEED
24 HR WITH 3°F SHUT-OFF	OFF	ON	1-SPEED
24 HR WITH 3°F SHUT-OFF	ON	ON	2-SPEED

LOCATION	DEVICE	VOLTS	AMPS	FROM	TO
J23	2 SPD P1	240V	12A	W1	RED AC
J47	CIRC PUMP	120V	4A	W2	WHT AC
J17/26	BLOWER	240V	12A	W7	RED AC
J50	AV	120V	2A	W4	WHT AC
J29	OZONE	120V	1A	W2	WHT AC
J20	LIGHT	12V	12W		
HTR	HEATER	240V	5.5kW	HTR TERM	HTR 1/2

LOCATION	DEVICE	VOLTS	AMPS	FROM	TO	FROM	TO
J1 ON EXPANDER	2-SPD P2	240V	12A	W1 ON EXPANDER	RED AC	J6 ON EXPANDER	BLK AC

TOTAL OUTPUT AMP DRAW NOT TO EXCEED MAX INPUT RATING OF SPA
CIRC PUMP IS AN OPTIONAL DEVICE. SEE CIRC PUMP BEHAVIOR TABLE.

USE EARTH GROUND CONNECTIONS AS INDICATED INSIDE THE SYSTEM ENCLOSURE

BASED ON EL2000 STICKER KIT TEMPLATE UPDATED 10-17-08