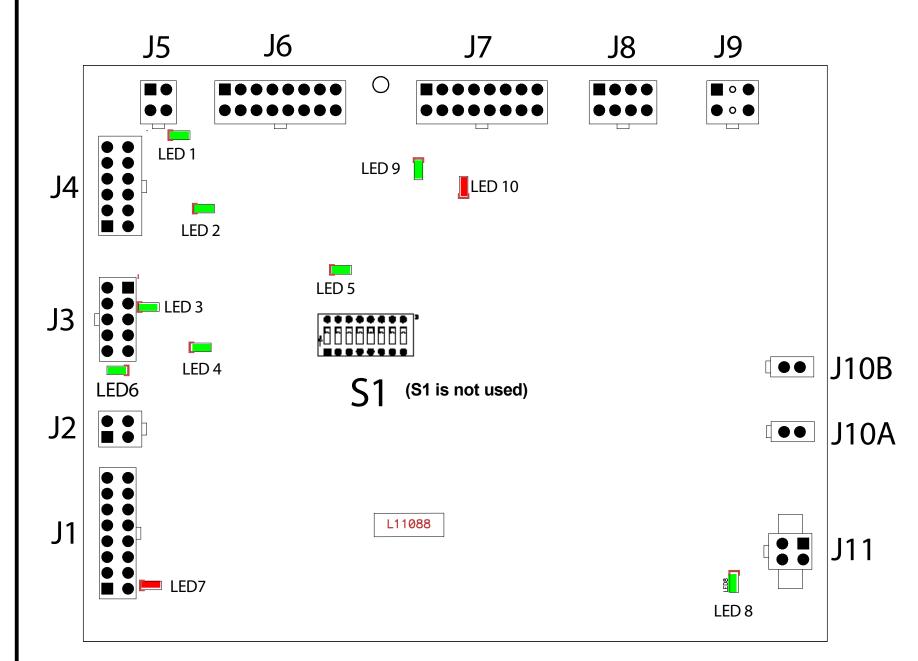


CONTROL BOARD



Description of LED functions on the Invertec V450-PRO For reference only

L11088 Digital Control PC Board				
LED#	COLOR	FUNCTION		
1	Green	Indicates +15VDC from power supply board is present		
2	Green	Indicates –15VDC from power supply board is present		
3	Green	Indicates +5VDC for +5SPI from power supply board is present		
4	Green	Indicates +15VDC for +15SPI from power supply board is present		
5	Green	Indicates +5VDC for +5V from power supply board is present		
6	Green	Indicates +5VDC for +5VRS232 from power supply board is present		
7	Red	FAULT Signal (See software group for coding)		
8	Green	Indicates +5VDC for +5CAN from power supply board is present		
9	Green	ArcLink Status Indicators (Main System <i>Master</i> ArcLink Connection) Solid		
10	Red	Green only when functional (See software for error codes)		

Error codes for the Invertec V450-PRO

The following is a list of possible error codes that the Power Wave can output via the status light

Error Code #	Indication		
21 Unprogrammed Weld Mode.	Contact the Service Department for instructions on reloading the Welding Software.		
22 Empty Weld Table.	Contact the Service Department for instructions on reloading the Welding Software.		
23 Weld Table checksum error.	Contact the Service Department for instructions on reloading the Welding Software.		
31 Primary overcurrent error.	Excessive Primary current present. May be related to a switch board or output rectifier failure.		
32 Capacitor "A" under voltage (Left side facing machine)	Low voltage on the main capacitors. May be caused by improper input configuration, or an open/short circuit in the primary side of the machine.		
33 Capacitor "B" under voltage (Right side facing machine)			
34 Capacitor "A" over voltage (Left side facing machine)	Excess voltage on the main capacitors. May be caused by improper input configuration, or an open/short		
35 Capacitor "B" over voltage (Right side facing machine)	circuit in the primary side of the machine.		
36 Thermal error	Indicates over temperature. Usually accompanied by Thermal LED. Check fan operation. Be sure process does not exceed duty cycle limit of the machine.		
37 Softstart error	Capacitor precharge failed. Usually accompanied by codes 32-35.		
41 Secondary overcurrent error	The secondary (weld) current limit has been exceeded. When this occurs the machine output will phase back to 100 amps, typically resulting in a condition refered to as "noodle welding"		
43 Capacitor delta error	The maximum voltage difference between the main capacitors has been exceeded. May be accompanied by errors 32-35.		
49 Single phase error	Indicates machine is running on single phase input power. Usually caused by the loss of the middle leg (L2).		
Other	Use Snap Shot to interpret other errors or Diagnostic Sofware		

POWER BOARDS

Description of LED functions on the Invertec V450-PRO
For reference only

G3632 Digital Power Supply Board			
LED#	COLOR	FUNCTION	
1	Red	Indicates +5VDC SPI supply is present	
2	Red	Indicates +5VDC control supply is present	

