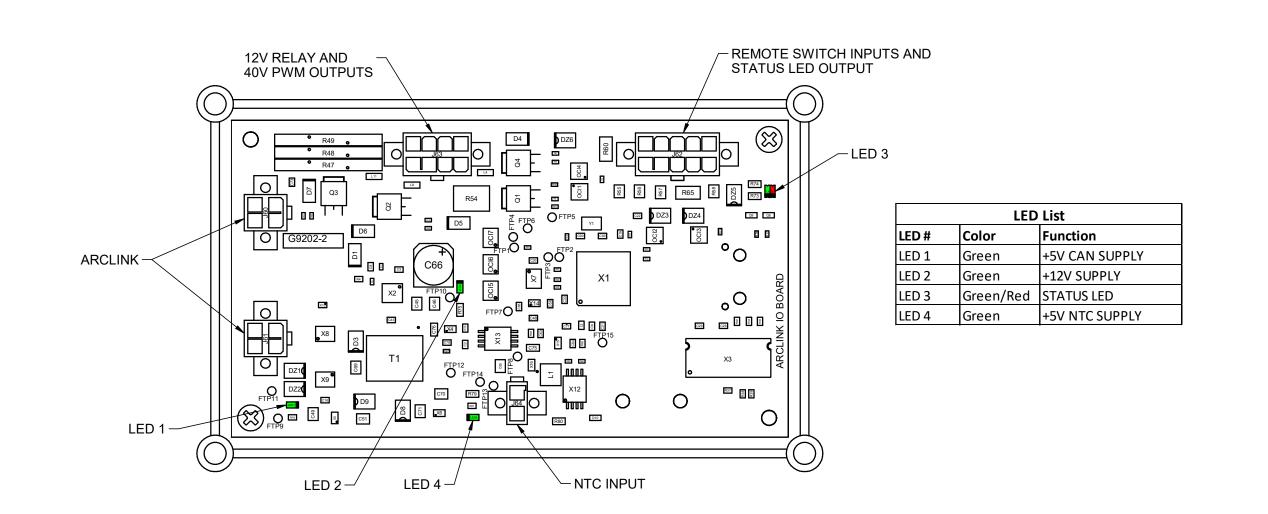
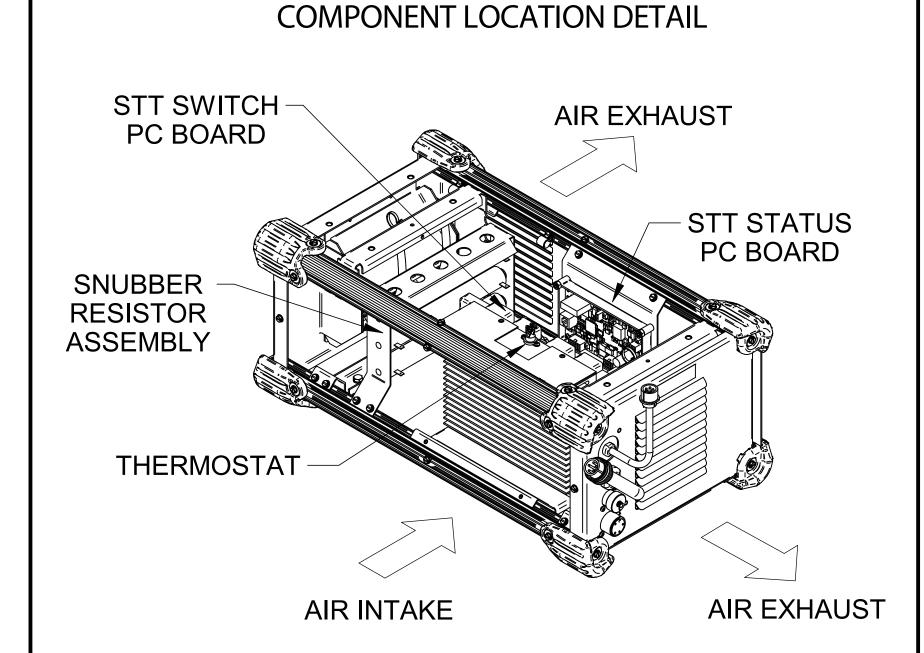


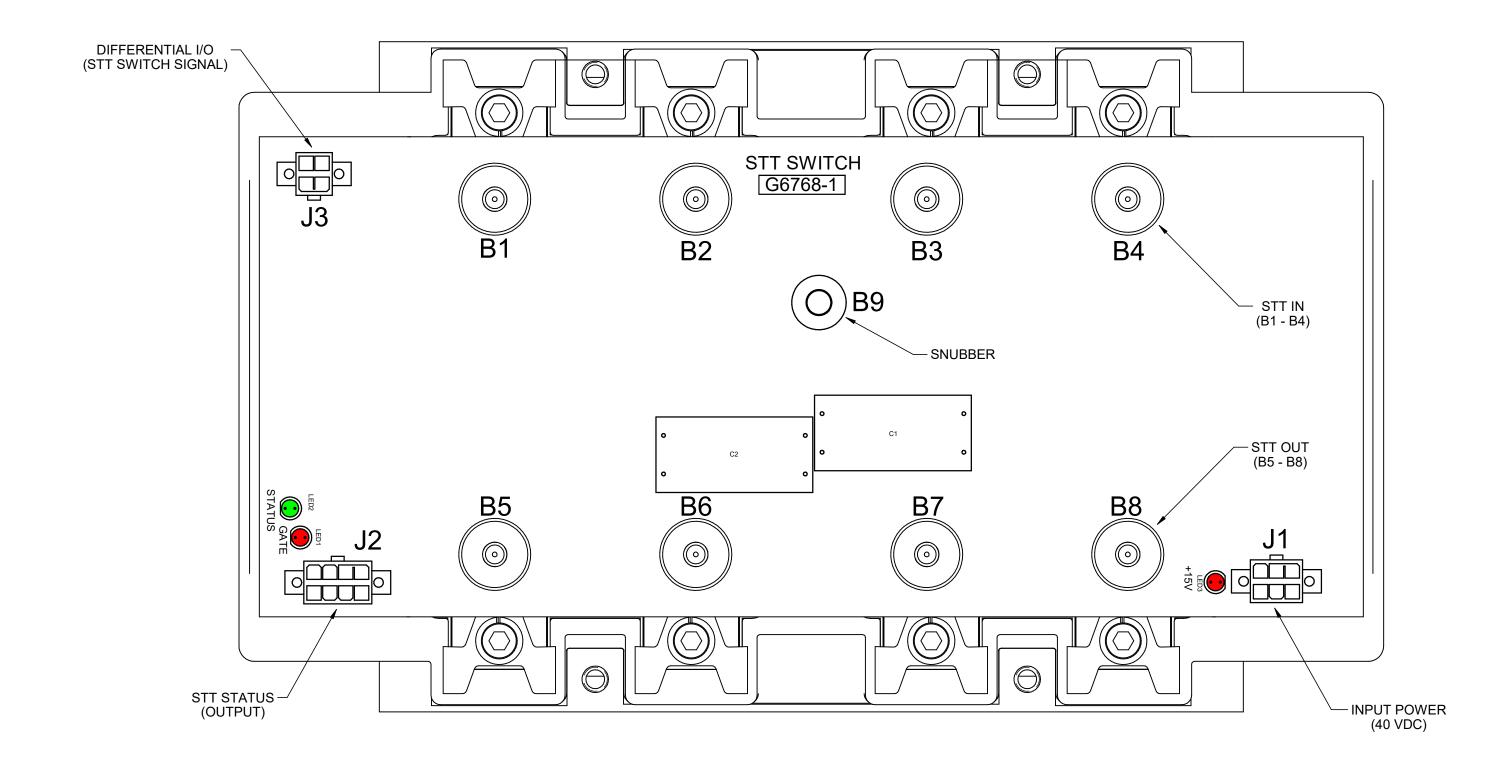
STT MODULE STATUS PC BOARD







STT SWITCH PC BOARD



<u>Troubleshooting the Power Wave STT Mod</u>ule <u>Using the External Status LED</u>

LIGHT CONDITION	ITION MEANING		
Steady Green	System OK. Power source is operational, and ismamicating normally with all health peripheral equipment connected to its ArcLinkhaetwo		
Blinking Green	Occurs during power up or a system reset, and test the power source is mapping (identifying) each component in the system. Normal 1-30 seconds after power is turned on, or if the system configuration is all always operation.		
Fast Blinking Green	Under normal conditions indicates Auto-mappinagends Also used by the iagnostic utility (included in Webled Manager Utilities vailable at www.powerwavesoftware.conto identify the selected machine when connecting specific IP address.		
Alternating Green and Rec	Non-recoverable system fault. If the Status light shing any combination of red and green, errors are presentead the error code(s) before the machine is turned.		
	Error Code interpretation through the Status light is detailed in the & Advancual. Individual code digits are flashed in red wind approach between digits. If more than or code is present, the codes will be separated because only active error conditions be accessible through the Status Light.		
	Error codes can also be retrieved with the diagnostity (included in tWeld Manager Utilities available atwww.powerwavesoftware.com his is the preferred method, since can access historical information contained enritheog.		
	To clear the active error(s), turn power sour, cænoffback on to reset.		
Steady Red	Not applicable (check polarity of LED).		
Blinking Red	Not applicable (check polarity of LED).		

Error codes for the Power Wave STT Module

STT Module					
Error Code #	Indication				
36 Thermal error	Indicates over temperature. Usually accompanietelary al LED on the host power source. Check fan operation. Be sure produces not exceed duty cycle limit of the machine.				
39 Misc. hardware fault	Unknown glitch has occurred on the fault intercupty. Sometimes caused by intermittent connections in the thermostat circu				
99 STT Status error	Error reported by the STT Switch PC Board. Generally caused by misconnection of welding(textesse polarity). May also be caused by loss of input voltage or boilande(a) bserve diagnostic LED's on the STT Switch PC Board to determine tractecause.				
Other	A complete list of error codes is available in the Wave Manager Utility (available atwww.powerwavesoftware.c)m Error codes that contain three or four digits fired as fatal errors. These codes generally indicate internal errors on the Bowrce Control Board. If cycling the input power on the machine doesard helerror, contact the Service Department.				

On Board LED's for the STT Switch PC Board

STT Switch PC Board					
MACHINE OUTPUT	LED1 (GATE)	LED2 (STATUS)	LED3 (+15V)	Indication	
ON/OFF	ON	ON	ON	Normal Condition – STT Switch is ON	
ON	OFF	ON	ON	Normal Condition – STT Switch has been commanded OF Note: During normal STT operation the OFF stateed ED may only be detectable as a slight dimming.	
ON	OFF	OFF	ON	Status Failure (only when triggered). Should loan amount by Error 99 on the external STT Module Status LED. Module by weld cable misconnection (reverse polarity).	
ON/OFF	OFF	OFF	ON/OFF	Status Failure (constantly). Should be accomplayied or 99 on the external STT Module Status LED. Most likely causethe on board power supply under-voltage lockout. Verify intage to the STT Switch board.	

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