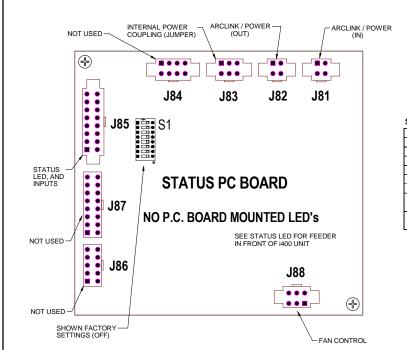




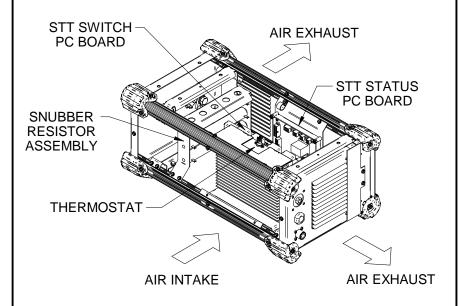
STT MODULE STATUS PC BOARD



TT Status PC Board DIP Switch

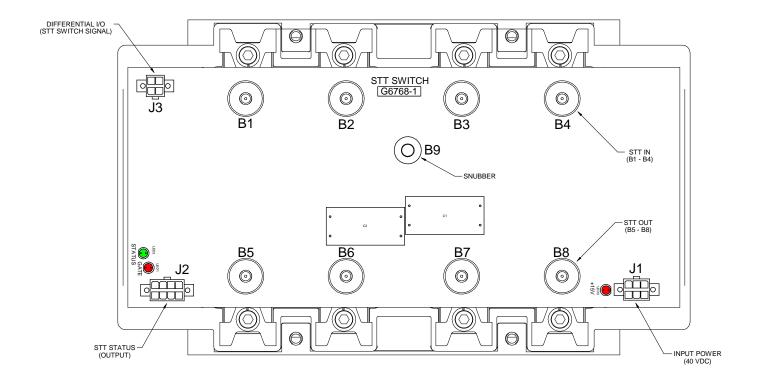
31	311 Status FC Board DIF Switch.								
Switch		Description	Comments						
1		Object Instance LSB (default - off)							
2		Object Instance MSB (default - off)	Used for manual ArcLink Configuration.						
3		Equipment Group 1 Select (default - off)							
4		Equipment Group 2 Select (default - off)	-						
5		Equipment Group 3 Select (default - off)							
6		Equipment Group 4 Select (default - off)							
7	off	Unused(default)	Not acknowledged on the STT platform.						
′	on	Unused	Not acknowledged on the STT platform.						
8	off	Unused(default)	Not acknowledged on the STT platform.						
0	on	Unused	Proceedings of the STT platform.						

COMPONENT LOCATION DETAIL





STT SWITCH PC BOARD



Troubleshooting the Power Wave STT Module Using the External Status LED

LIGHT CONDITION	MEANING
Steady Green	System OK. Power source is operational, and is communicating normally with all healthy peripheral equipment connected to its ArcLink network.
Blinking Green	Occurs during power up or a system reset, and indicates the power source is mapping (identifying) each component in the system. Normal for first 1-30 seconds after power is turned on, or if the system configuration is changed during operation.
Fast Blinking Green	Under normal conditions indicates Auto-mapping has failed. Also used by the diagnostic utility (included in the <i>Weld Manager Utilities</i> available at <i>www.powerwavesoftware.com</i>) to identify the selected machine when connecting to a specific IP address.
Alternating Green and Red	Non-recoverable system fault. If the Status lights are flashing any combination of red and green, errors are present. Read the error code(s) before the machine is turned off.
	Error Code interpretation through the Status light is detailed in the Service Manual. Individual code digits are flashed in red with a long pause between digits. If more than one code is present, the codes will be separated by a green light. Only active error conditions will be accessible through the Status Light.
	Error codes can also be retrieved with the diagnostic utility (included in the Weld Manager Utilities available at www.powerwavesoftware.com). This is the preferred method, since it can access historical information contained in the error log.
	To clear the active error(s), turn power source off, and back 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 accompanied by Thermal LED on the host power source. Check fan operation. Be sure process does not exceed duty cycle limit of the machine.						
39 Misc. hardware fault	Unknown glitch has occurred on the fault interrupt circuitry. Sometimes caused by intermittent connections in the thermostat circuit.						
99 STT Status error	Error reported by the STT Switch PC Board. Generally caused by misconnection of welding leads (reverse polarity). May also be caused by loss of input voltage or board failure. Observe diagnostic LED's on the STT Switch PC Board to determine the exact cause.						
Other	A complete list of error codes is available in the <i>Power Wave Manager Utility</i> (available at www.powerwavesoftware.com). Error codes that contain three or four digits are defined as fatal errors. These codes generally indicate internal errors on the Power Source Control Board. If cycling the input power on the machine does not clear the error, 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 OFF Note: During normal STT operation the OFF state of the LED may only be detectable as a slight dimming.	
ON	OFF	OFF	ON	Status Failure (only when triggered). Should be accompanied by Error 99 on the external STT Module Status LED. Most likely caused by weld cable misconnection (reverse polarity).	
ON/OFF	OFF	OFF	ON/OFF	Status Failure (constantly). Should be accompanied by Error 99 on the external STT Module Status LED. Most likely caused by the on board power supply under-voltage lockout. Verify input voltage to the STT Switch board.	

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UNLESS OTHERWISE SPECIFIED TOLERANCE: ON 2 PLACE DECIMALS IS ± .02 in. (± 0.5 mm) ON 3 PLACE DECIMALS IS ± .002 in. (± 0.5 mm) ON ALL ANGLES IS ± .5 OF A DEGREE	CONTROL: CLEVELAND		SCALE: NONE	EQUIPMENT TYPE:	POWER W				PAGE 2 OF 2	2
	DRAWN BY: ENGINEER:	akoshar		SUBJECT: MACHINE SCHEMATIC				NUMBER:	DOCUMENT REVISION:	
WITH PUBLISHED STANDARDS.	APPROVED:	BS	INCH	MATERIAL DISPOSITION: NA	APPROVAL 2/7/2014 DATE:	PROJECT NUMBER:	CRM41613	REFERENCE: G6032	G6862	В