

PRIMARY DC INPUT	(330-900VL
(209 IS POSITIVE)	

LED # COLOR FUNCTION 1 GREEN +15V POWER SUPPLY "OK" 2 GREEN +5V CAN POWER SUPPLY "OK" 3 GREEN +5V ISOLATED POWER SUPPLY "OK"
1 GREEN +15V POWER SUPPLY "OK" 2 GREEN +5V CAN POWER SUPPLY "OK"
2 GREEN +5V CAN POWER SUPPLY "OK"
5 GREEN +5V ISOLATED POWER SUPPLY OR
4 GREEN DC BUS VOLTAGE EXCEEDS 50V
5 GREEN FAN "ON"
6 GREEN STATUS "OK"
G8093-1 INVERTER CONTROL MODULE
LED # COLOR FUNCTION
1 RED/GREEN STATUS

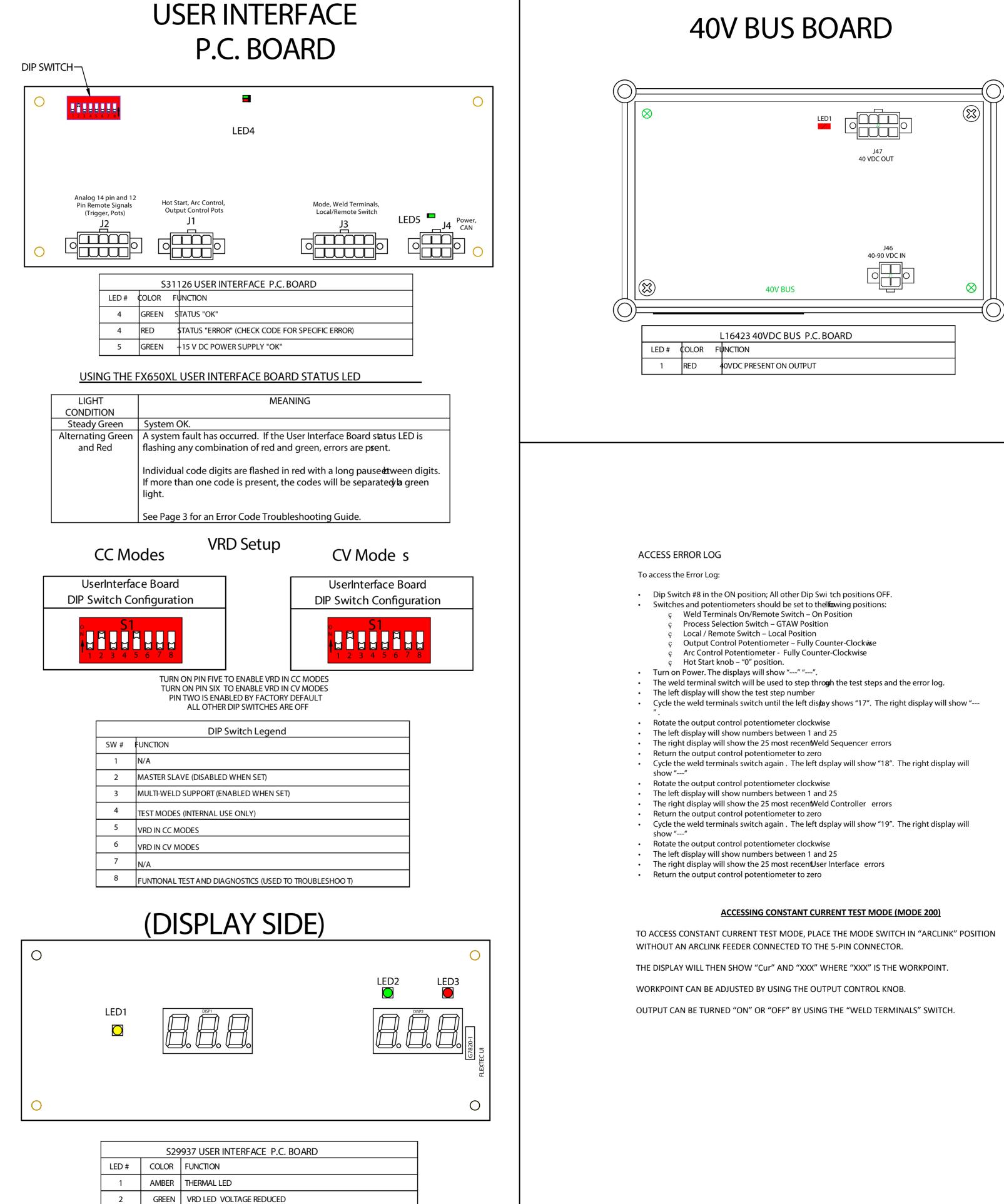
USING THE FLEXTEC 650X SWITCHBOARD STATUS LED

LIGHT	MEANING
CONDITION	
Steady Green	System OK.
Blinking Green	Occurs during startup or reset, and indicates that the switchbrobis waiting for communication from the control board. Normal for the first 1-10 seconds after power is turned on.
Alternating Green and Red	A system fault has occurred. If the switchboard status LED is flashing any combination of red and green, errors are present.
	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.
	See Page 3 for an Error Code Troubleshooting Guide.

FLEXTEC 650X MACHINE SCHEMATICS G8764-2

RED VRD LED VOLTAGE NOT REDUCED

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ERROR CODE TROUBLESHOOTING GUIDE

6	User Interface not Connected to Switchboard
Description	CAN communication between switchboard an d User Interface PCB has timed out.
Possible Solution 1	Check the physical wiring and connections between User Interface PCB and switchboard.
Possible Solution 2	Verify power supply to switchboa rd.
Possible Solution 3	Replace defective switchboard as sembly or User Interface PCB.
31	Primary Overcurrent
Description	Peak current through the transformer pri mary has exceeded threshold (140 amps).
Possible Solution 1	Verify connections to the switch board, transformer and output rectifier assemblies are made correctly and there are no damaged compone nts in the machine.
Possible Solution 2	Replace shorted Output Rectifier Diode
Possible Solution 3	Replace defective main transform er.
Possible Solution 4	Replace defective switchboard as sembly.
36	Thermal Fault
Description	Thermostat on output rectifier heat sink or embedde d in transformer has tripped.
Possible Solution 1	Do not exceed allowable ambient temperature or duty cycle limits.
Possible Solution 2	Verify that fan is operating and airflow is not being blocked.
Possible Solution 3	Measure thermostats at Switchboa rd and replace if defective.
45	Output Voltage High Limit Exceeded
Description	During OCV, the voltage at the studs exc eeded the allowable levels. (35V if VRD enabled, 11 3V if VRD not enabled)
Possible Solution 1	Verify that voltage feedback lea ds are connected inside the machine.
Possible Solution 2	Verify that boost relay is open during OCV.
Possible Solution 3	Replace Defective Switchboard.
213	Switchboard is Offline
213 Description	Switchboard is Offline Switchboard auxiliary supply voltage is too high at machine power-up.
	Switchboard auxiliary supply voltage is too high at machine power-up.
Description	Switchboard auxiliary supply voltage is too high at machine power-up.
Description Possible Solution 1 Possible Solution 2	Switchboard auxiliary supply voltage is too high at machine power-up. Mapping error. Cycle power to a ttempt to clear error.
Description Possible Solution 1 Possible Solution 2	Switchboard auxiliary supply voltage is too high at machine power-up. Mapping error. Cycle power to a ttempt to clear error. Switchboard has a fatal error. Read error code at on-board status LED and decode e rror.
Description Possible Solution 1 Possible Solution 2 Possible Solution 3	Switchboard auxiliary supply voltage is too high at machine power-up. Mapping error. Cycle power to a ttempt to clear error. Switchboard has a fatal error. Read error code at on-board status LED and decode e rror. Peplace defective Switchboard as sembly. result of the sembly.
Description Possible Solution 1 Possible Solution 2 Possible Solution 3 713	Switchboard auxiliary supply voltage is too high at machine power-up. Mapping error. Cycle power to a ttempt to clear error. Switchboard has a fatal error. Read error code at on-board status LED and decode e rror. Peplace defective Switchboard as sembly. Image: Color of the sembly. Misconnection - Primary Supply Voltage too High Misconnection - Primary Supply Voltage too High
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Description Possible Solution 1 Possible Solution 2 Possible Solution 3 713 Description Possible Solution 1 Possible Solution 2	Switchboard auxiliary supply voltage is too high at machine power-up. Mapping error. Cycle power to a ttempt to clear error. Switchboard has a fatal error. Read error code at on-board status LED and decode e rror. Peplace defective Switchboard as sembly. sembly. Improper input voltage configura too high at machine power-up. Improper input voltage configura too high at machine power-up.
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Description Possible Solution 1 Possible Solution 2 Possible Solution 3 713 Description Possible Solution 1 Possible Solution 2 Possible Solution 3 714	Switchboard auxiliary supply voltage is too high at machine power-up. Mapping error. Cycle power to a ttempt to clear error. Switchboard has a fatal error. Read error code at on-board status LED and decode e rror. Switchboard has a fatal error. Read error code at on-board status LED and decode e rror. Feplace defective Switchboard as sembly.
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FLEXTEC 650X CE Error Codes

