

| 2 3             | 8-1>    | 7 - EXAN | /IPLE:<br>ONNE | THIS<br>CTOR    | IS PIN 7<br>J5 |
|-----------------|---------|----------|----------------|-----------------|----------------|
| 0 0 0           | 0 0 0   | 0        | Δ              |                 |                |
| 0 0 0           | 000     | 0        | 0 0            | 0 0 0           | 0 0            |
| $8 \rightarrow$ |         | 14       | 12             | $3 \rightarrow$ | 8              |
|                 | 72 J    | ATCH     |                |                 |                |
| VIEW O          | F CONN  | ECTOR ON | PC B           | OARD            |                |
|                 | CAL SYM |          | =1537          | ,               |                |

ALL COMPONENTS VIEWED FROM REAR

## FLEXTEC 500 MACHINE SCHEMATIC G8693 REV: A



|       |       | S30146 SWITCHBOARD                             |
|-------|-------|--|
| LED # | COLOR | FUNCTION                                       |
| 1     | RED   | STATUS "ERROR" (CHECK CODE FOR SPECIFIC ERROR) |
| 1     | GREEN | STATUS "OK"                                    |
| 2     | GREEN | 15V CAN POWER SUPPLY "OK"                      |
| 3     | GREEN | STATUS "OK"                                    |
| 3     | RED   | STATUS "ERROR" (CHECK CODE FOR SPECIFIC ERROR) |
| 4     | GREEN | +15V DC POWER SUPPLY "OK"                      |
| 5     | GREEN | +5V DC PRIMIARY POWER SUPPLY "OK"              |

| USING T | HE FLEXTE | C 500 SWI7 | <b>CHBOARD</b> | <b>STATUS LED</b> |
|---------|-----------|------------|----------------|-------------------|
|         |           | ,          |                | ,                 |

| LIGHT             | MEANING   |
|-------------------|---|
| CONDITION         |   |
| Steady Green      | System OK.  |
| Blinking Green    | Occurs during startup or reset, and indicates that the switchboard is waiting   |
|                   | for communication from the control board. Normal for the first 1-10   |
|                   | seconds after power is turned on.   |
| Alternating Green | A system fault has occurred. If the switchboard status LED is flashing any  |
| and Red           | combination of red and green, errors are present.   |
|                   | Individual code digits are flashed in red with a long pause between digits.<br>If more than one code is present, the codes will be separated by a green<br>light. |
|                   | See Page 3 for an Error Code Troubleshooting Guide.   |



## **USER INTERFACE** P.C. BOARD (DISPLAY SIDE)

LED<sup>2</sup>  $\bigcap$ 





|       | S29   | 9937 USER INTERFACE P.C. BOARD |
|-------|-------|--------------------------------|
| LED # | COLOR | FUNCTION                       |
| 1     | AMBER | THERMAL LED                    |
| 2     | GREEN | VRD LED VOLTAGE REDUCED        |
| 3     | RED   | VRD LED VOLTAGE NOT REDUCED    |

## ACCESS ERROR LOG

To access the Error Log:

• Dip Switch #8 in the ON position; All other Dip Switch positions OFF.

- Switches and potentiometers should be set to the following positions:
  - o Weld Terminals On/Remote Switch On Position
  - o Process Selection Switch GTAW Position o Local / Remote Switch – Local Position
  - o Output Control Potentiometer Fully Counter-Clockwise
  - o Arc Control Potentiometer Fully Counter-Clockwise
  - o Hot Start knob "0" position.
- Turn on Power. The displays will show "---".
- The weld terminal switch will be used to step through the test steps and the error log.

The left display will show the test step number • Cycle the weld terminals switch until the left display shows "17". The right display will show "---

- Rotate the output control potentiometer clockwise
- The left display will show numbers between 1 and 25
- The right display will show the 25 most recent **Weld Sequencer** errors • Return the output control potentiometer to zero
- Cycle the weld terminals switch again . The left display will show "18". The right display will show "---"
- Rotate the output control potentiometer clockwise • The left display will show numbers between 1 and 25
- The right display will show the 25 most recent Weld Controller errors
- Return the output control potentiometer to zero • Cycle the weld terminals switch again . The left display will show "19". The right display will
- show "---" • Rotate the output control potentiometer clockwise
- The left display will show numbers between 1 and 25
- The right display will show the 25 most recent User Interface errors
- Return the output control potentiometer to zero

TO ACCESS CONSTANT CURRENT TEST MODE, PLACE THE MODE SWITCH IN "ARCLINK" POSITION WITHOUT AN ARCLINK FEEDER CONNECTED TO THE 5-PIN CONNECTOR.

THE DISPLAY WILL THEN SHOW "Cur" AND "XXX" WHERE "XXX" IS THE WORKPOINT.

WORKPOINT CAN BE ADJUSTED BY USING THE OUTPUT CONTROL KNOB.

OUTPUT CAN BE TURNED "ON" OR "OFF" BY USING THE "WELD TERMINALS" SWITCH.

## ERROR CODE TROUBLESHOOTING GUIDE

| 31  |
|---|
| Description   |
| Possible Solution   |
| Possible Solution<br>Possible Solution  |
|   |
| 36  |
| Description   |
| Possible Solution   |
| Possible Solution   |
| 744   |
| /11<br>Description  |
| Possible Solution   |
| Possible Solution   |
| Possible Solution   |
|   |
| 712   |
| Description   |
| Possible Solution   |
| Possible Solution   |
|   |
| 713   |
| Description   |
| Possible Solution   |
| Possible Solution   |
| Possible Solution   |
| 714   |
|   |
| Description   |
| Description<br>Possible Solution  |
| Description<br>Possible Solution<br>Possible Solution   |
| Description<br>Possible Solution<br>Possible Solution<br>Possible Solution  |
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| Description         Possible Solution   |

|   | Primary Overcurrent  |  |
|---|--|--|
| n   | Peak current through the transformer primary has exceeded threshold (140 amps).  |  |
|   | Verify connections to the switchboard, transformer and output rectifier assemblies   |  |
| ion 1   | are made correctly and there are no damaged components in the machine.   |  |
| ion 2   | Replace defective main transformer.  |  |
| ion 3   | Replace defective switchboard assembly (S28443).   |  |
|   |  |  |
|   | Thermal Fault  |  |
| n   | Thermostat on output rectifier heat sink or embedded in transformer has tripped.   |  |
| ion 1   | Do not exceed allowable ambient temperature or duty cycle limits.  |  |
| ion 2   | Verify that fan is operating and airflow is not being blocked.   |  |
| ion 3   | Measure thermostats at control board and replace if defective.   |  |
|   |  |  |
|   | Capacitor Fault (Over-Voltage or Under-Voltage)  |  |
| n   | Input voltage is less than 160 VDC or more than 1050 VDC   |  |
| ion 1   | Verify input voltage level, frequency, and quality. Verify that line is not too soft.  |  |
| ion 2   | If problem occurs on a generator, verify proper operation when connected to  |  |
|   | municipal power lines.   |  |
| ion 3   | Replace defective switchboard assembly (S28443).   |  |
|   |  |  |
| <u>n</u>  | CAN COMMUNICATION TIMEOUT  |  |
| ion 1   | CAN communication between switchboard and control board has timed out.   |  |
| ion 0   | Uneuk the physical winning and connections between control board and switchboard.  |  |
| $\frac{100 2}{100 2}$   | Penlage defective switchboard assembly (\$28442) or centrel board (\$28454)  |  |
| 1011 3  | Replace delective switchboard assembly (326443) of control board (326434).   |  |
|   | Misconnection - Switchboard Supply Voltage too High  |  |
| n   | Switchboard auxiliary supply voltage is higher than 62 VDC at machine power-up   |  |
|   | Improper input voltage configuration. Verify primary reconnect position measure  |  |
| ion 1   | input voltage level and check three phase operation  |  |
|   | Damaged auxiliary transformer or intermittent "A" lead connection. Verify 42 VAC   |  |
| ion 2   | output at 14 pin connector to determine the source of the problem.   |  |
| ion 3   | Replace defective switchboard assembly (S28443).   |  |
|   |  |  |
|   |  |  |
|   | Misconnection - Switchboard Supply Voltage too Low   |  |
| n   | Misconnection - Switchboard Supply Voltage too Low<br>Switchboard auxiliary supply voltage is lower than 42 VDC at machine power-up.   |  |
| n<br>ion 1  | Misconnection - Switchboard Supply Voltage too Low<br>Switchboard auxiliary supply voltage is lower than 42 VDC at machine power-up.<br>Improper input voltage configuration. Verify primary reconnect position, measure   |  |
| n<br>ion 1  | Misconnection - Switchboard Supply Voltage too Low<br>Switchboard auxiliary supply voltage is lower than 42 VDC at machine power-up.<br>Improper input voltage configuration. Verify primary reconnect position, measure<br>input voltage level and check three phase operation.   |  |
| n<br>ion 1<br>ion 2   | Misconnection - Switchboard Supply Voltage too Low<br>Switchboard auxiliary supply voltage is lower than 42 VDC at machine power-up.<br>Improper input voltage configuration. Verify primary reconnect position, measure<br>input voltage level and check three phase operation.<br>Damaged auxiliary transformer or intermittent "A" lead connection. Verify 42 VAC   |  |
| n<br>ion 1<br>ion 2   | Misconnection - Switchboard Supply Voltage too Low<br>Switchboard auxiliary supply voltage is lower than 42 VDC at machine power-up.<br>Improper input voltage configuration. Verify primary reconnect position, measure<br>input voltage level and check three phase operation.<br>Damaged auxiliary transformer or intermittent "A" lead connection. Verify 42 VAC<br>output at 14 pin connector to determine the source of the problem.   |  |
| n<br>ion 1<br>ion 2<br>ion 3  | Misconnection - Switchboard Supply Voltage too Low<br>Switchboard auxiliary supply voltage is lower than 42 VDC at machine power-up.<br>Improper input voltage configuration. Verify primary reconnect position, measure<br>input voltage level and check three phase operation.<br>Damaged auxiliary transformer or intermittent "A" lead connection. Verify 42 VAC<br>output at 14 pin connector to determine the source of the problem.<br>Replace defective switchboard assembly (S28443).   |  |
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| n<br>ion 1<br>ion 2<br>ion 3<br>n<br>ion 1<br>ion 2<br>ion 3<br>n<br>ion 1<br>ion 2<br><b>718</b><br>n<br>ion 1<br>ion 2                        | Misconnection - Switchboard Supply Voltage too Low           Switchboard auxiliary supply voltage is lower than 42 VDC at machine power-up.           Improper input voltage configuration. Verify primary reconnect position, measure input voltage level and check three phase operation.           Damaged auxiliary transformer or intermittent "A" lead connection. Verify 42 VAC output at 14 pin connector to determine the source of the problem.           Replace defective switchboard assembly (S28443).           Switchboard Undervoltage Lock Out           Switchboard auxiliary supply voltage momentarily drops below 20 VDC.           Damaged auxiliary transformer or intermittent "A" lead connection. Verify 42 VAC output at 14 pin connector to determine the source of the problem.           Switchboard auxiliary supply voltage momentarily drops below 20 VDC.           Damaged auxiliary transformer or intermittent "A" lead connection. Verify 42 VAC output at 14 pin connector to determine the source of the problem.           Verify input voltage level, frequency, and quality. Verify that line is not too soft.           Replace defective switchboard assembly (S28443).           Control Board Misconfiguration           A jumper on the control board has been placed in the incorrect position.           Verify that the wiring to connector J5 on the control board matches the machine wiring diagram.           Replace defective control board assembly (S28454).           Internal Control Board Error           The microprocessor |  |
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| n<br>ion 1<br>ion 2<br>ion 3<br>n<br>ion 1<br>ion 2<br>ion 3<br>n<br>ion 1<br>ion 2<br><b>718</b><br>n<br>ion 1<br>ion 2                        | Misconnection - Switchboard Supply Voltage too Low           Switchboard auxiliary supply voltage is lower than 42 VDC at machine power-up.           Improper input voltage configuration. Verify primary reconnect position, measure input voltage level and check three phase operation.           Damaged auxiliary transformer or intermittent "A" lead connection. Verify 42 VAC output at 14 pin connector to determine the source of the problem.           Replace defective switchboard assembly (S28443).           Switchboard Undervoltage Lock Out           Switchboard auxiliary supply voltage momentarily drops below 20 VDC.           Damaged auxiliary transformer or intermittent "A" lead connection. Verify 42 VAC output at 14 pin connector to determine the source of the problem.           Verify input voltage level, frequency, and quality. Verify that line is not too soft.           Replace defective switchboard assembly (S28443).           Control Board Misconfiguration           A jumper on the control board has been placed in the incorrect position.           Verify that the wiring to connector J5 on the control board matches the machine wiring diagram.           Replace defective control board assembly (S28454).           Internal Control Board Error           The microprocessor on the control board has experienced a critical internal error and cannot continue.           Cycle power to the machine.           Replace defective control board assembly (S28454).   |  |
| n<br>ion 1<br>ion 2<br>ion 3<br>n<br>ion 1<br>ion 2<br>ion 3<br>n<br>ion 1<br>ion 2<br><b>718</b><br>n<br>ion 1<br>ion 2<br><b>718</b>          | Misconnection - Switchboard Supply Voltage too Low           Switchboard auxiliary supply voltage is lower than 42 VDC at machine power-up.           Improper input voltage configuration. Verify primary reconnect position, measure input voltage level and check three phase operation.           Damaged auxiliary transformer or intermittent "A" lead connection. Verify 42 VAC output at 14 pin connector to determine the source of the problem.           Replace defective switchboard assembly (S28443).           Switchboard Undervoltage Lock Out           Switchboard auxiliary supply voltage momentarily drops below 20 VDC.           Damaged auxiliary transformer or intermittent "A" lead connection. Verify 42 VAC output at 14 pin connector to determine the source of the problem.           Replace defective switchboard assembly (S28443).           Control Board Misconfiguration           A jumper on the control board has been placed in the incorrect position.           Verify that the wiring to connector J5 on the control board matches the machine wiring diagram.           Replace defective control board assembly (S28454).           Internal Control Board Error           The microprocessor on the control board has experienced a critical internal error and cannot continue.           Cycle power to the machine.           Replace defective control board assembly (S28454).           Internal Switchboard Error           The microprocessor on the switchboard assembly (S28454).   |  |
| n<br>ion 1<br>ion 2<br>ion 3<br>n<br>ion 1<br>ion 1<br>ion 1<br>ion 2<br>ion 2<br><b>718</b><br>n<br>ion 1<br>ion 2<br><b>718</b><br>n          | Misconnection - Switchboard Supply Voltage too Low           Switchboard auxiliary supply voltage is lower than 42 VDC at machine power-up.           Improper input voltage configuration. Verify primary reconnect position, measure           input voltage level and check three phase operation.           Damaged auxiliary transformer or intermittent "A" lead connection. Verify 42 VAC           output at 14 pin connector to determine the source of the problem.           Replace defective switchboard assembly (S28443).           Switchboard Undervoltage Lock Out           Switchboard undervoltage Lock Out           Switchboard auxiliary supply voltage momentarily drops below 20 VDC.           Damaged auxiliary transformer or intermittent "A" lead connection. Verify 42 VAC output at 14 pin connector to determine the source of the problem.           Verify input voltage level, frequency, and quality. Verify that line is not too soft.           Replace defective switchboard assembly (S28443).           Control Board Misconfiguration           A jumper on the control board has been placed in the incorrect position.           Verify that the wiring to connector J5 on the control board matches the machine wiring diagram.           Replace defective control board assembly (S28454).           Internal Control Board Error           The microprocessor on the control board has experienced a critical internal error and cannot continue.           Cycle power to the machine.  |  |
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