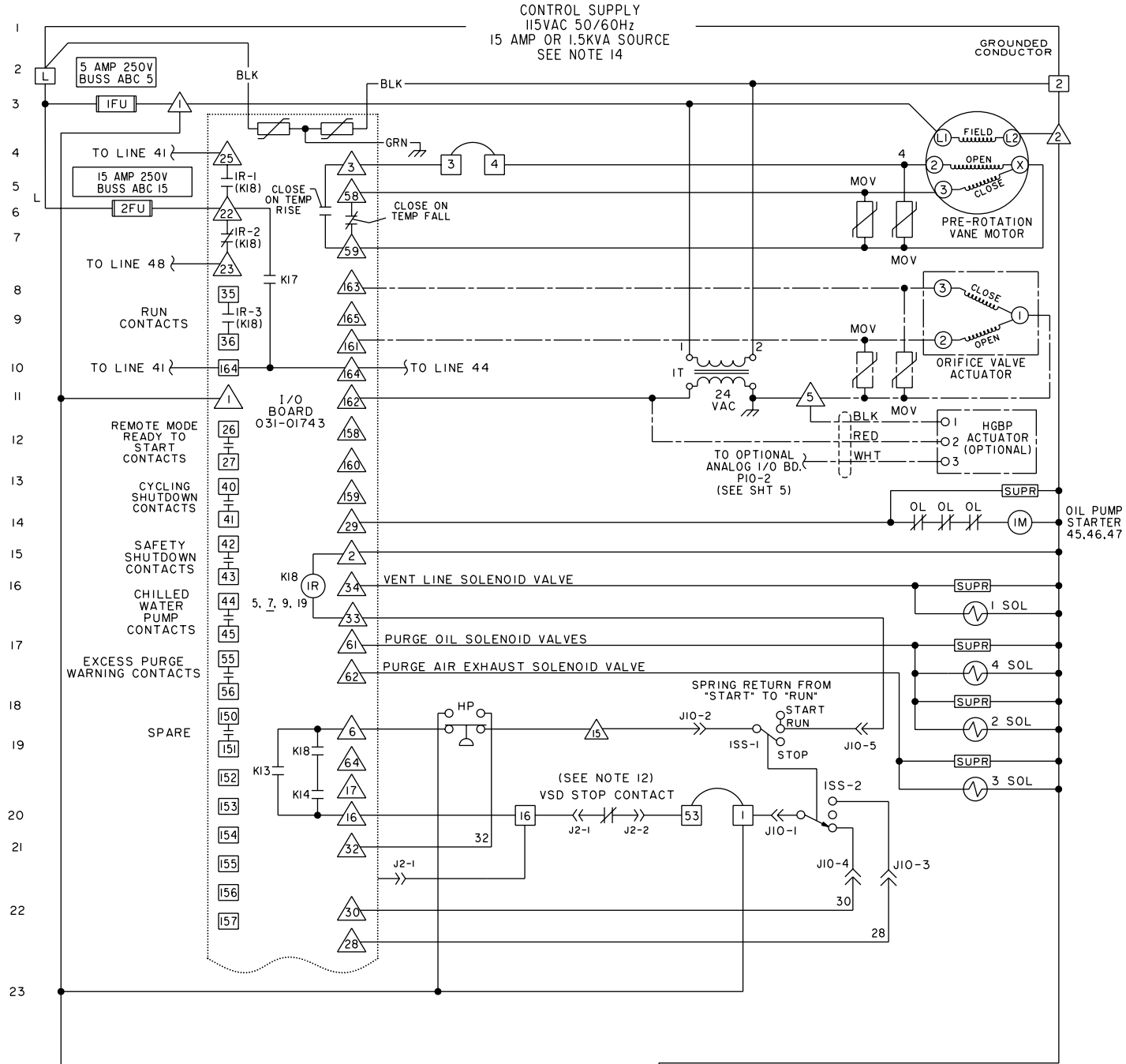
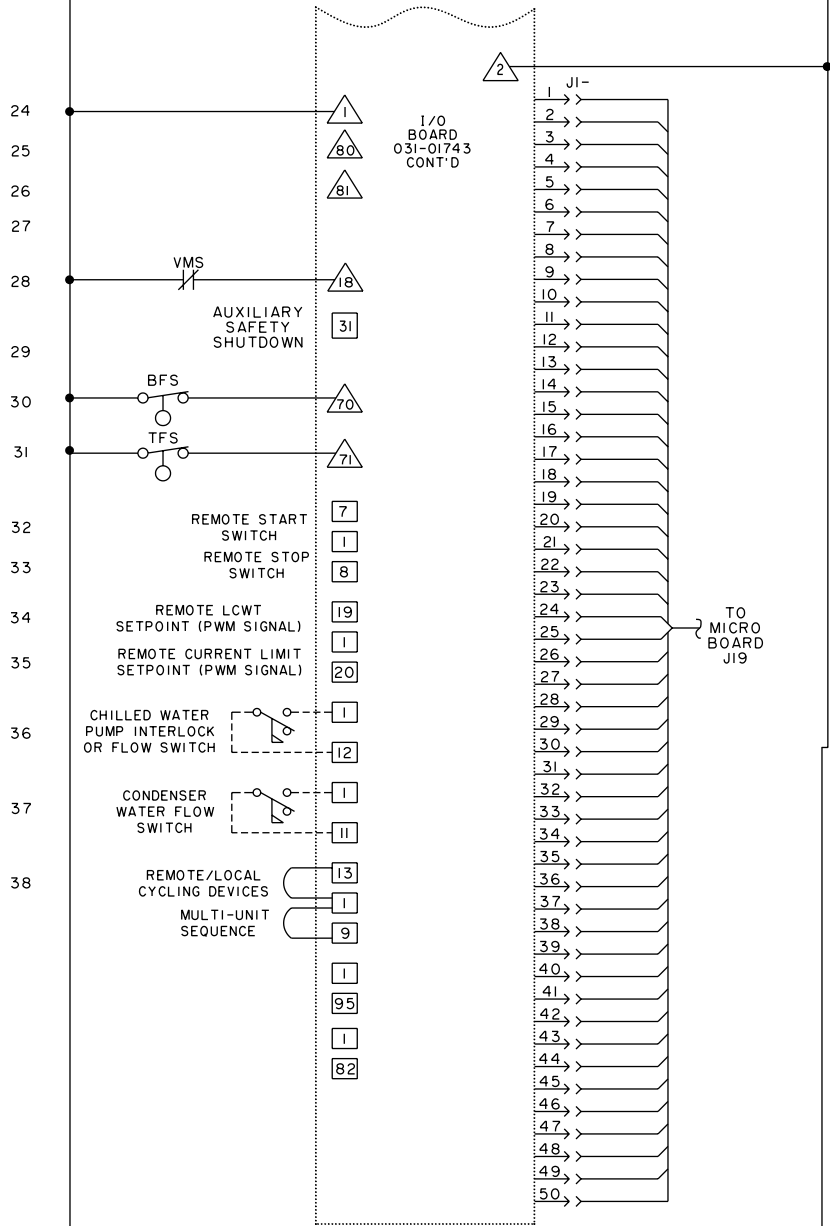
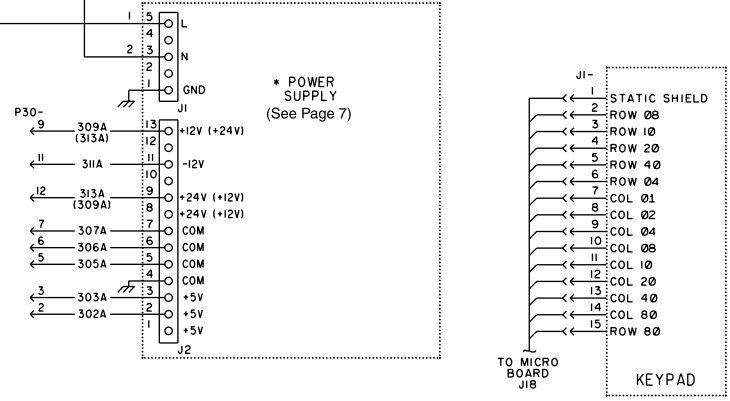
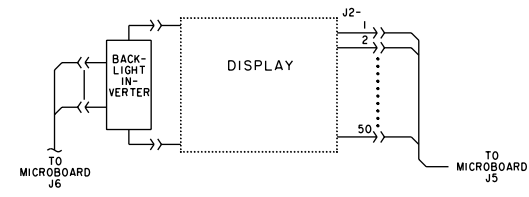
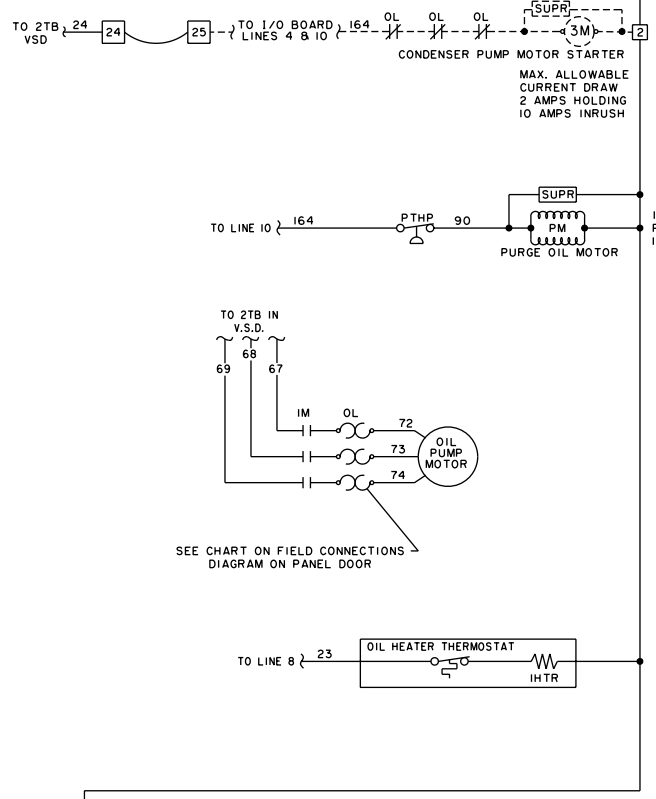


ELEMENTARY DIAGRAM



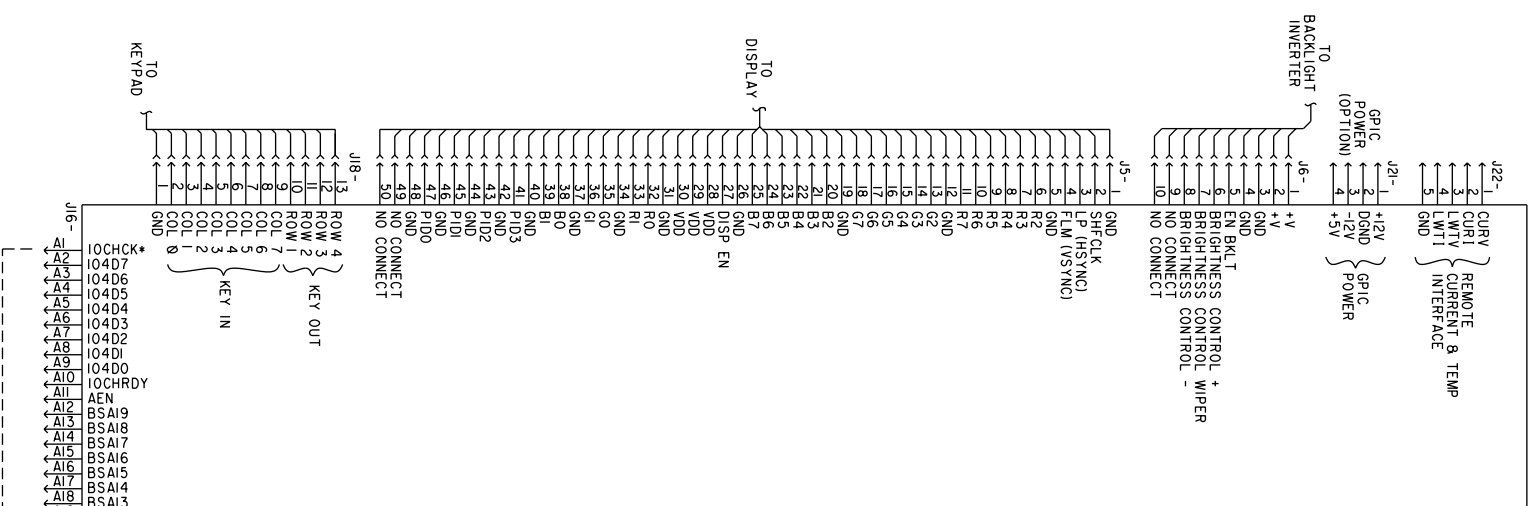


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LD04592

ELEMENTARY DIA

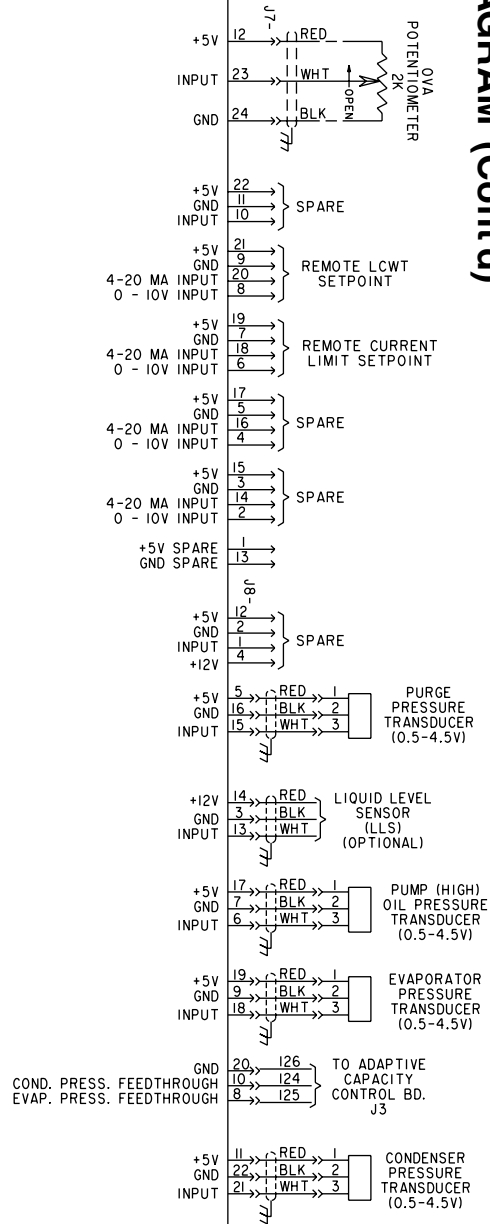


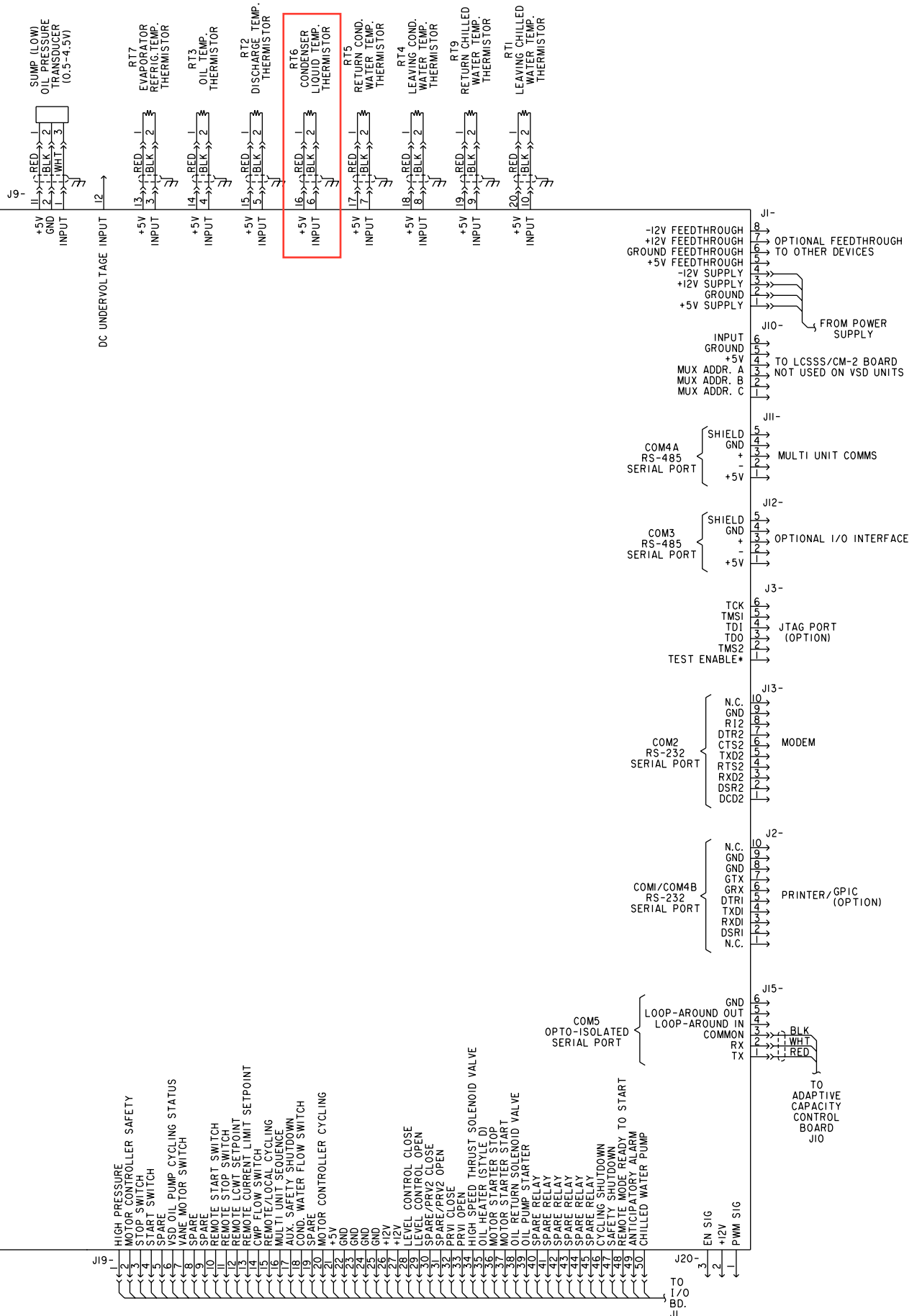
PC-104 PORT

A18 BSAI3
 A19 BSAI2
 A20 BSAI1
 A21 BSAI0
 A22 BSA9
 A23 BSA8
 A24 BSA7
 A25 BSA6
 A26 BSA5
 A27 BSA4
 A28 BSA3
 A29 BSA2
 A30 BSA1
 A31 BSA0
 A32 GND
 B1 GND
 B2 RSTDRV
 B3 +5V
 B4 IRO9
 B5 NO CONNECT
 B6 DRQ2
 B7 -12V
 B8 ZWS*
 B9 +12V
 B10 NO CONNECT
 B11 SMEMW*
 B12 SMEMR*
 B13 IOW*
 B14 IOR*
 B15 DACK3*
 B16 DRQ3
 B17 DACK1*
 B18 DRQ1*
 B19 REFRESH*
 B20 BCLK
 B21 IRO7
 B22 IRO6
 B23 IRO5
 B24 IRO4
 B25 IRO3
 B26 DACK2*
 B27 TC
 B28 BALE
 B29 +5V
 B30 OSC
 B31 GND
 B32 GND
 J17
 C0 GND
 C1 SBHE*
 C2 BSA23
 C3 BSA22
 C4 BSA21
 C5 BSA20
 C6 BSA19
 C7 BSA18
 C8 BSA17
 C9 MEMR*
 C10 MEMW*
 C11 I04D8
 C12 I04D9
 C13 I04D10
 C14 I04D11
 C15 I04D12
 C16 I04D13
 C17 I04D14
 C18 I04D15
 C19 NO CONNECT
 D0 GND
 D1 MCS16*
 D2 I0CS16*
 D3 IRO10
 D4 IRO11
 D5 IRO12
 D6 IRO13
 D7 IRO14
 D8 DACK0*
 D9 DRQ0
 D10 DACK5*
 D11 DRQ5
 D12 DACK6*
 D13 DRQ6
 D14 DACK7*
 D15 DRQ7
 D16 +5V
 D17 MASTER*
 D18 GND
 D19 GND

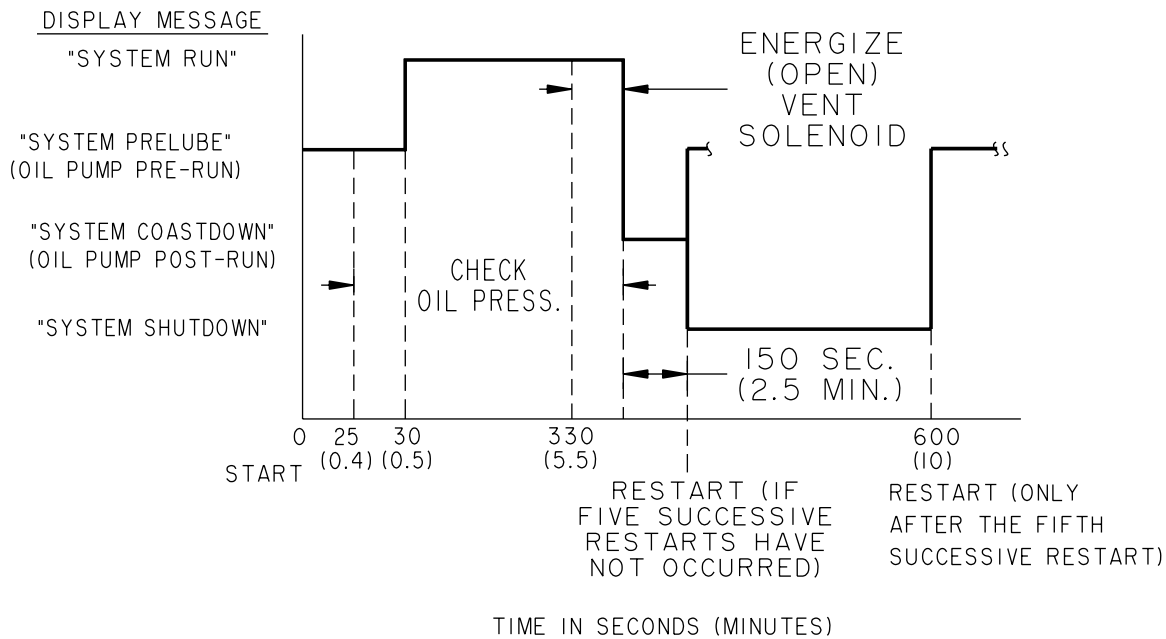
MICROBOARD
031-01730

DIAGRAM (Cont'd)





TIMING DIAGRAM



LD04594


NOTES:


1. This wiring diagram describes the standard electronic control scheme for use with a YORK Solid State Starter. For details of standard modifications, refer to Product Form 160.55-PW7.
2. Field wiring to be in accordance with the National Electrical Code as well as all other applicable codes and specifications. See Product Form 160.55-PW6 for field wiring connections.
3. Numbers along the left side of diagram are line identification numbers. The numbers along the right side indicate the line number location of relay contacts. An underlined contact location signifies a normally closed contact.
4. Main control panel Class 1 field wiring terminal connection points are indicated by numbers within a rectangle, i.e. 15. Main control panel factory wiring terminal connection points are indicated by numbers within a triangle, i.e. 5. Component terminal markings are indicated by numbers within a circle, i.e. C1. Numbers adjacent to circuit lines are the circuit identification numbers.
5. To cycle unit on and off automatically with contacts other than those shown, install a cycling device between terminals 1 & 13 (line 38) (see note 7). If a cycling device is installed, jumper must be removed between terminals 1 & 13.
6. To stop unit and not permit it to start again, install a stop device between terminals 1 & 8 (Line 33) (see note 7). A remote start-stop switch may be connected to terminals 1, 7 & 8 (Lines 32 & 33) (see note 7). Remote start-stop switch (Line 32) is operative only in the "remote" operating mode.
7. Device contact rating to be 5 milliamperes at 115 Volts A.C.
8. Contact rating is 5 Amp resistive @ 120 Volts A.C. or 240 Volts A.C.
9. _____
10. For wiring diagram of V.S.D., refer to product form 160.00-PW1, -PW2 or PW3.
11. Run contact (TM) on V.S.D. logic board is set to trip at 105% FLA.
12. Contact rating is 5 Amp resistive @ 250 Volts A.C. & 30 Volts D.C., 2 Amp inductive (.4 PF) @ 250 Volts A.C. & 30 Volts D.C.
13. Field connected control power supply is not required, as control transformer is supplied on the V.S.D.
14. Wires 2* and L* are from the V.S.D.
15. Each 115VAC field-connected inductive load: i.e. relay coil, motor starter coil, etc., shall have a transient suppressor wired in parallel with its coil, physically located at the coil. Spare transient suppressors and control circuit fuses are supplied in a bag attached to the cable clamp on the left, inside wall of the control panel.

LEGEND

- IHTR THERMOSTATICALLY CONTROLLED 1000 WATT OIL HEATER
- IM 3 PHASE OIL PUMP STARTER (MOUNTED IN PURGE PANEL)
- 3M CONDENSER PUMP MOTOR STARTER
- IR VSD RUN / IHTR HEATER CONTROL RELAY (KI8 - LOCATED ON I. O. BD.)
- ISOL VENT LINE SOLENOID VALVE
- 2SOL,4SOL PURGE OIL SOLENOID VALVES
- 3SOL PURGE AIR EXHAUST SOLENOID VALVE
- ISS DPDT 3 POSITION ROCKER SWITCH
- 2TB TERMINAL BLOCK, FACTORY WIRING (IN V.S.D.)
- 3TB TERMINAL BLOCK, FACTORY WIRING (IN V.S.D.)
- IT CLASS 2 POWER SUPPLY TRANSFORMER
- BFS PURGE BOTTOM FLOAT SWITCH
- FDTs FAULTY DISCHARGE TEMP. SENSOR (PROVIDED BY RTI)
- FLA FULL LOAD AMPS (COMPRESSOR MOTOR)
- FU FUSE
- HDT REFRIG. HIGH DISCHARGE TEMP. (PROVIDED BY RT2)
- HOP HIGH OIL PRESSURE (PROVIDED BY TWO TRANSDUCERS)
- HOT HIGH OIL TEMPERATURE (PROVIDED BY RT3)
- HP HIGH PRESSURE CUTOUT (MOUNTED IN PURGE PANEL)
- LEP LOW EVAPORATOR PRESSURE (PROVIDED BY EVAP. PRESS TRANSDUCER)
- LLS LIQUID LEVEL SENSOR (PROBE)
- LOT LOW OIL TEMPERATURE (PROVIDED BY RT3)
- LWT LOW WATER TEMPERATURE (PROVIDED BY RTI)
- HGBP HOT GAS BYPASS
- MOV METAL OXIDE VARISTOR
- OL MOTOR STARTER OVERLOADS
- OP LOW OIL PRESSURE (PROVIDED BY TWO TRANSDUCERS)
- PAES PURGE AIR EXHAUST SOLENOID VALVE (3SOL)
- PM PURGE OIL MOTOR (MOUNTED ON TOP OF CONDENSER)
- POS PURGE OIL SOLENOID VALVE (2SOL & 4SOL)
- PTHP PURGE TANK HIGH PRESSURE CUTOUT (MOUNTED IN PURGE PANEL)
- RTI-RT9 RESISTANCE TEMPERATURE SENSING ELEMENT
- RES RESISTOR

SUPR TRANSIENT SUPPRESSOR

TB1, TB3, TB5, TB6 (TOP) TERMINAL BLOCK, FACTORY WIRING — 

TB2, TB4, TB6 (BOTTOM) TERMINAL BLOCK, FIELD CONNECTION — 

- TFS PURGE TOP FLOAT SWITCH
- TM RUN CONTACT FROM V.S.D.
- VMP VANE MOTOR POTENTIOMETER
- VMS VANE MOTOR SWITCH
- FIELD WIRING
- FACTORY WIRING
- CIRCUIT BOARD OR ENCLOSURE BOUNDARY
- JACK (J1, J2, ...)
- ⌵ PLUG (P1, P2, ...)

 WIRE ENTRANCE HOLE IN CONTROL PANEL

- OPTION (WHEN SUPPLIED) BY YORK.
- MECHANICAL LINKAGE

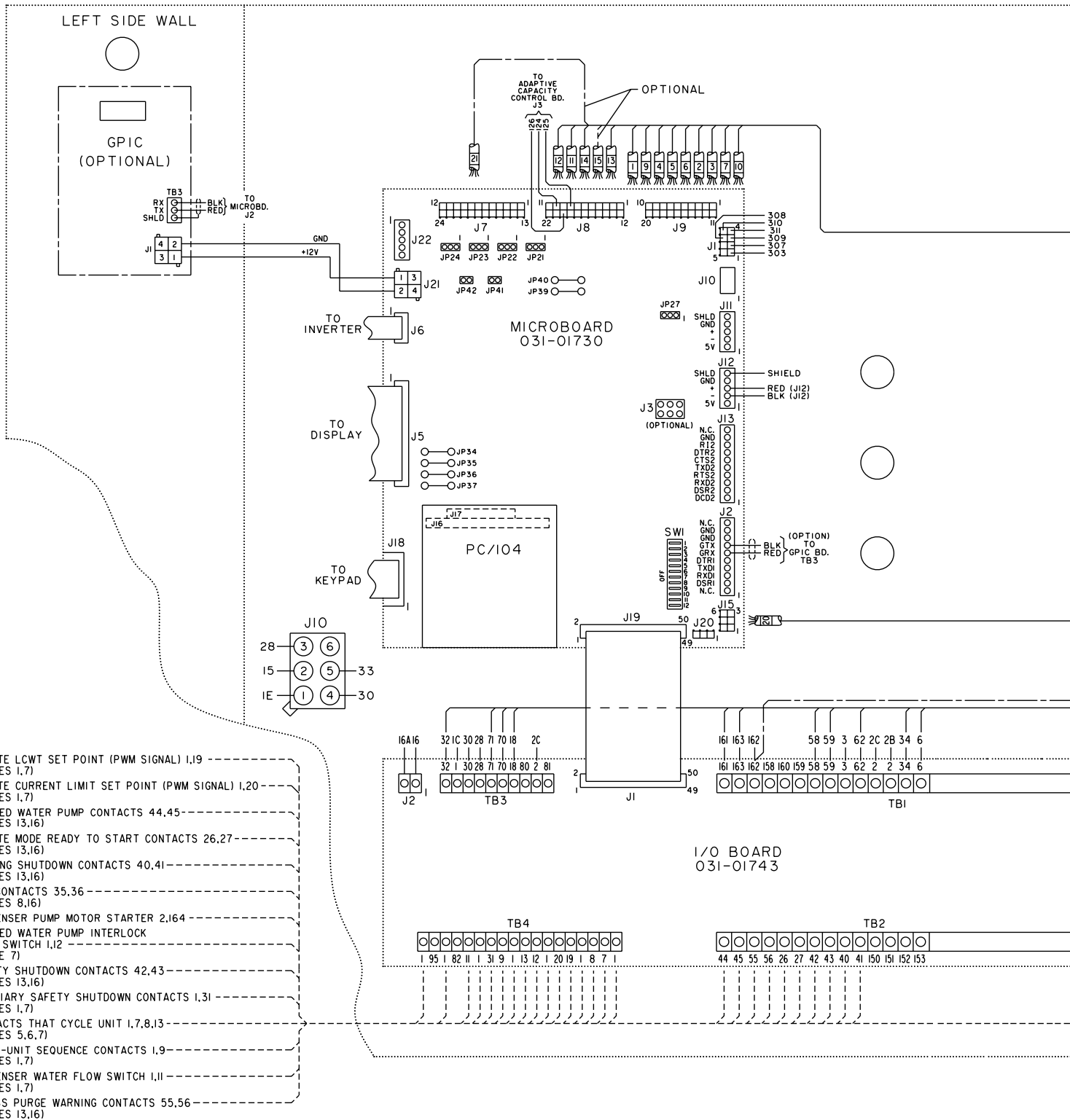
 SHIELDED CABLE

 METAL OXIDE VARISTOR

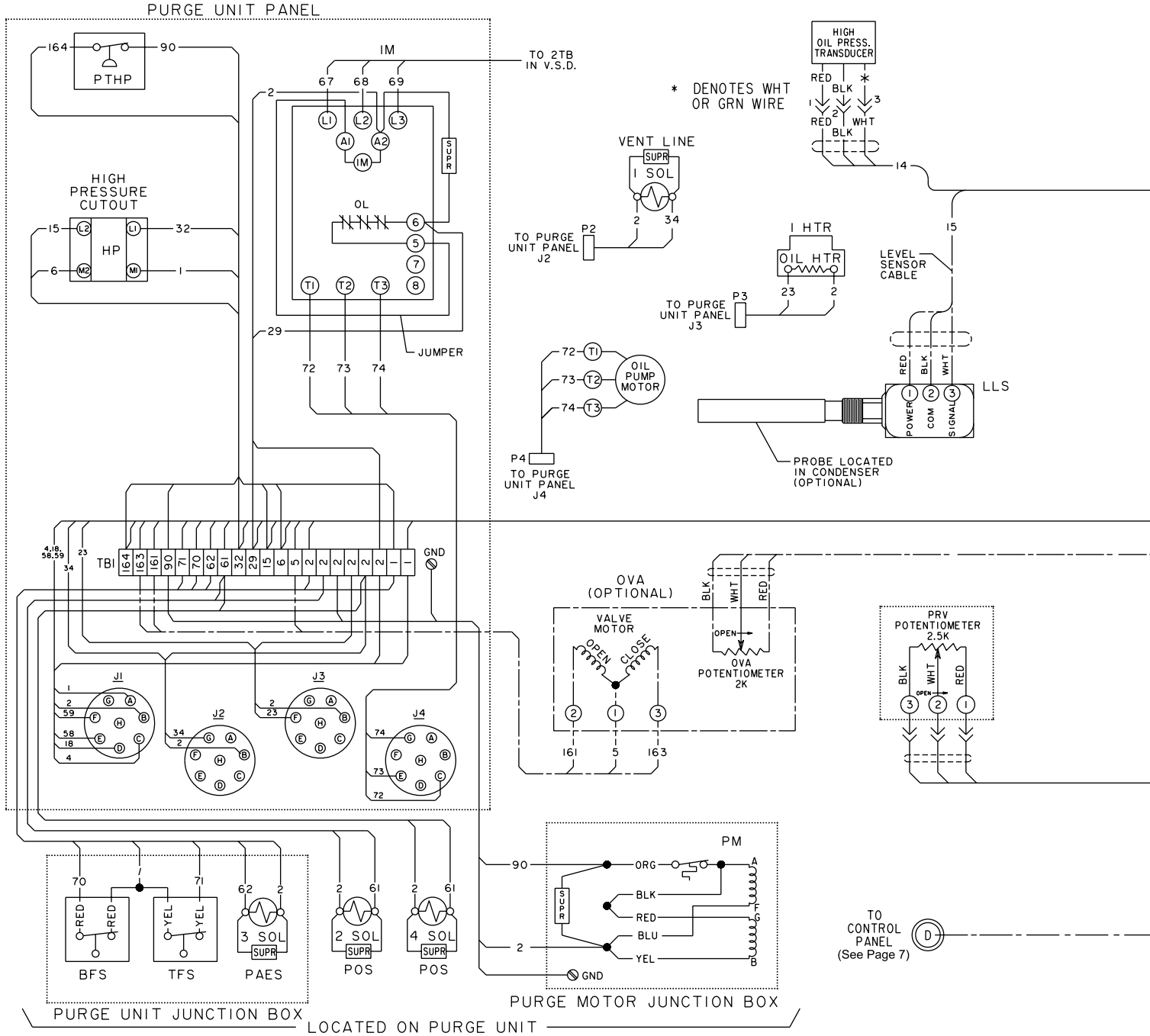
KI3, KI4, KI7 RELAYS MOUNTED ON I/O BOARD - SEE OPERATOR'S MANUAL

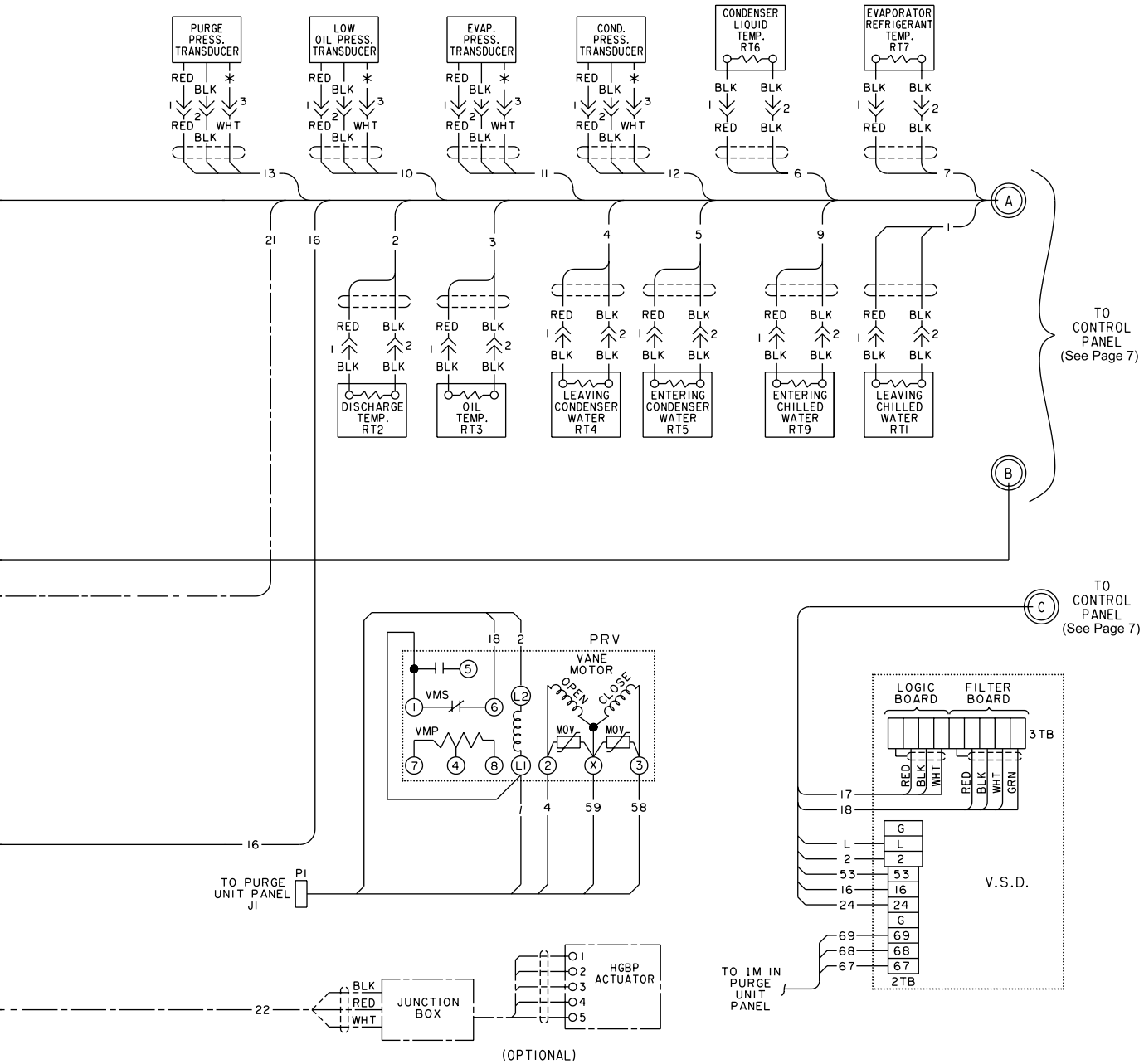
LD04595

CONNECTION DIAGRAM



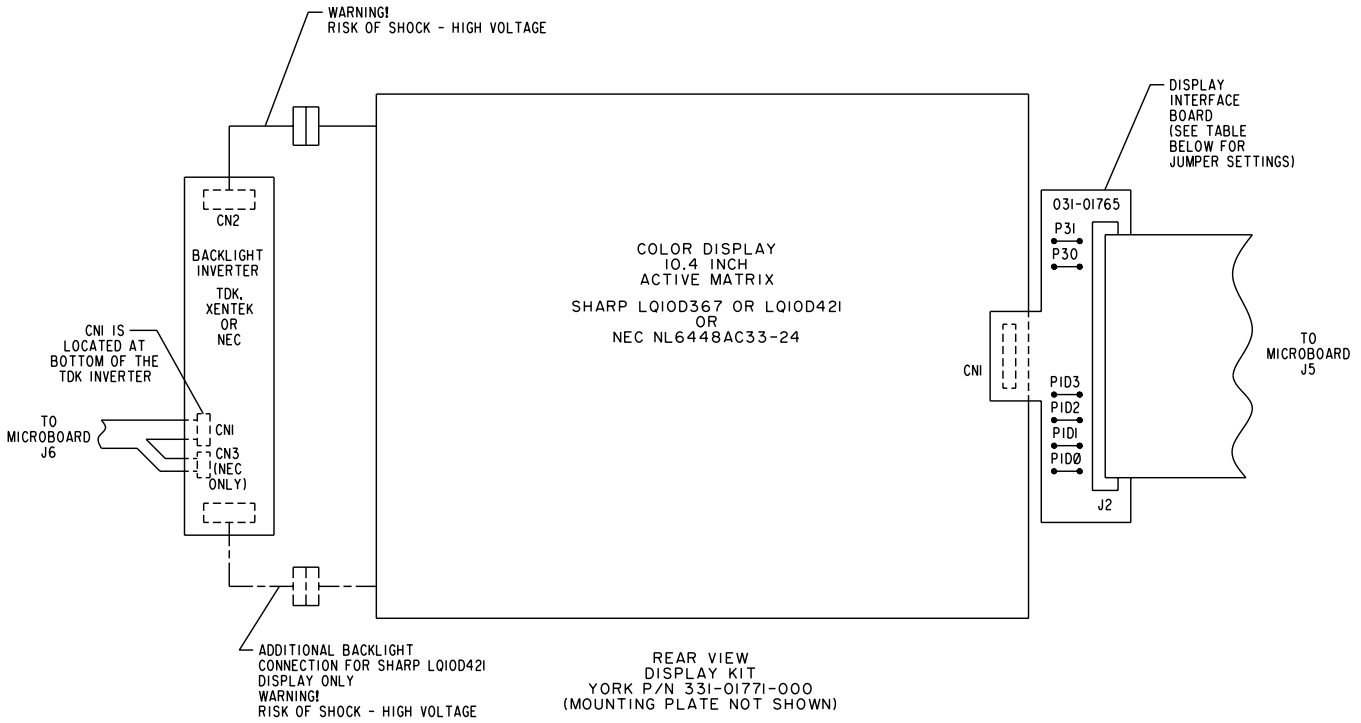
CONNECTION DIAGRAM (Cont'd)





LD04597

INSIDE VIEW OF FRONT DOOR



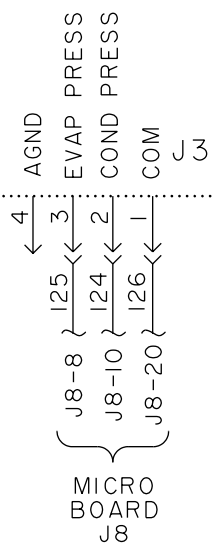
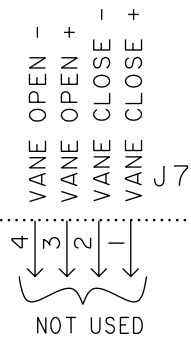
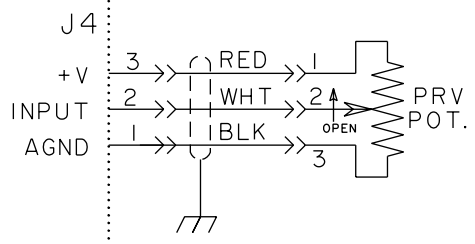
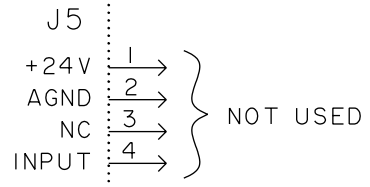
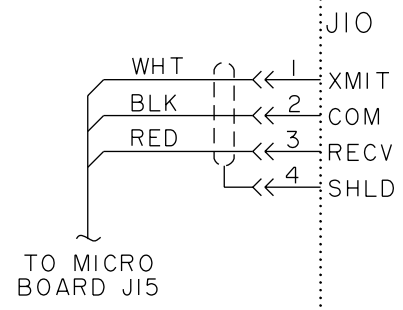
DISPLAY INTERFACE BOARD JUMPER SETTINGS

DISPLAY	P30	P31	PID3	PID2	PID1	PID0
SHARP LQ10D367	IN	IN	OUT	OUT	IN	OUT
SHARP LQ10D42I	IN	IN	OUT	OUT	IN	OUT
NEC	OUT	OUT	OUT	OUT	OUT	IN

LD04598

OIL PUMP MOTOR		OIL PUMP STARTER OVERLOAD HEATERS						
COMPR	VOLTS-PH-HZ	FULL LOAD AMPS	MANUFACTURER	MANUFACTURER'S PART NO.	SETTING	TRIP AMPS	DUAL ELEMENT FUSE SIZE	PROTECTION
B,C,E	440-3-60	1.45	CUTLER HAMMER	H2005B-3	B.0	1.8	5	125
	460-3-60	1.45	CUTLER HAMMER	H2005B-3	B.0	1.8	5	125
	480-3-60	1.45	CUTLER HAMMER	H2005B-3	B.0	1.8	5	125
F	440-3-60	1.85	CUTLER HAMMER	H2006B-3	A.25	2.4	5	127
	460-3-60	1.85	CUTLER HAMMER	H2006B-3	A.25	2.4	5	127
	480-3-60	1.85	CUTLER HAMMER	H2006B-3	A.25	2.4	5	127
B,C,E,F	380-3-50	2.20	CUTLER HAMMER	H2006B-3	B.75	3.0	6	138
	400-3-50	2.20	CUTLER HAMMER	H2006B-3	B.75	3.0	6	138
	415-3-50	1.85	CUTLER HAMMER	H2006B-3	A.25	2.4	6	127

* – Oil pump motor supply fuses located in variable speed drive.



LD04599

PRESSURE-TEMPERATURE CHART							
APPLICATION		DEVICE	UNITS	OPERATING POINT			
CHILLED WATER	BRINE			ON RISE		ON FALL	
✓	✓	HDT	DEG.F/DEG.C	220/104.4		219/103.9	
✓	✓	HOT	DEG.F/DEG.C	180/82.2		179/81.7	
✓	✓	OP	PSID/kPa	20/137.9		15/103.4	
✓	✓	PAES	PSIA/kPa	90/620.4		80/551.5	
✓	✓	HP	PSIA/kPa	CUT-OUT 29.7/204.8	PROGRAMMABLE PER OPERATOR'S MANUAL FORM I60.55-01 *		CUT-IN 23.7/163.4
✓		LEP (R11)	PSIA/kPa	CUT-IN 5.43/37.4	ALLOW PRV OPENING 5.65/39.0	INHIBIT PRV OPENING 5.55/38.3	CUT-OUT 5.42/37.4
✓		LEP (R123)	PSIA/kPa	CUT-IN 4.41/30.4	ALLOW PRV OPENING 4.70/32.4	INHIBIT PRV OPENING 4.50/31.0	CUT-OUT 4.40/30.3
✓	✓	HOP	PSID/kPa	60/413.7		59/406.8	
✓	✓	FDTS	DEG.F/DEG.C	30.0/-1.10		29.9/-1.20	
✓		LWT	DEG.F/DEG.C	PROGRAMMABLE PER OPERATOR'S MANUAL FORM I60.55-01			
	✓	LWT	DEG.F/DEG.C				
✓	✓	LOT	DEG.F/DEG.C	71.0/21.7		55.0/12.8	
✓	✓	PTHP	PSIA/kPa	105/723		99/682 MANUAL RESET	

LD04600

* Function provided by condenser transducer



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