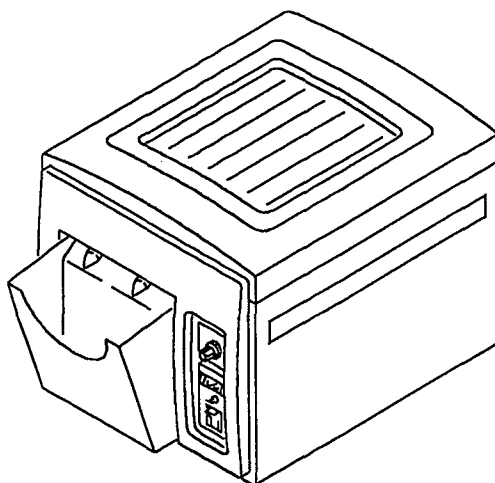


DIAGRAMS
for the
***Kodak X-Omat 2000* PROCESSOR**
Service Code: 3554
and the
***Kodak X-Omat 2000A* PROCESSOR**
Service Code: 3555



H172_0500AC



HEALTH IMAGING

PLEASE NOTE The information contained herein is based on the experience and knowledge relating to the subject matter gained by Eastman Kodak Company prior to publication.

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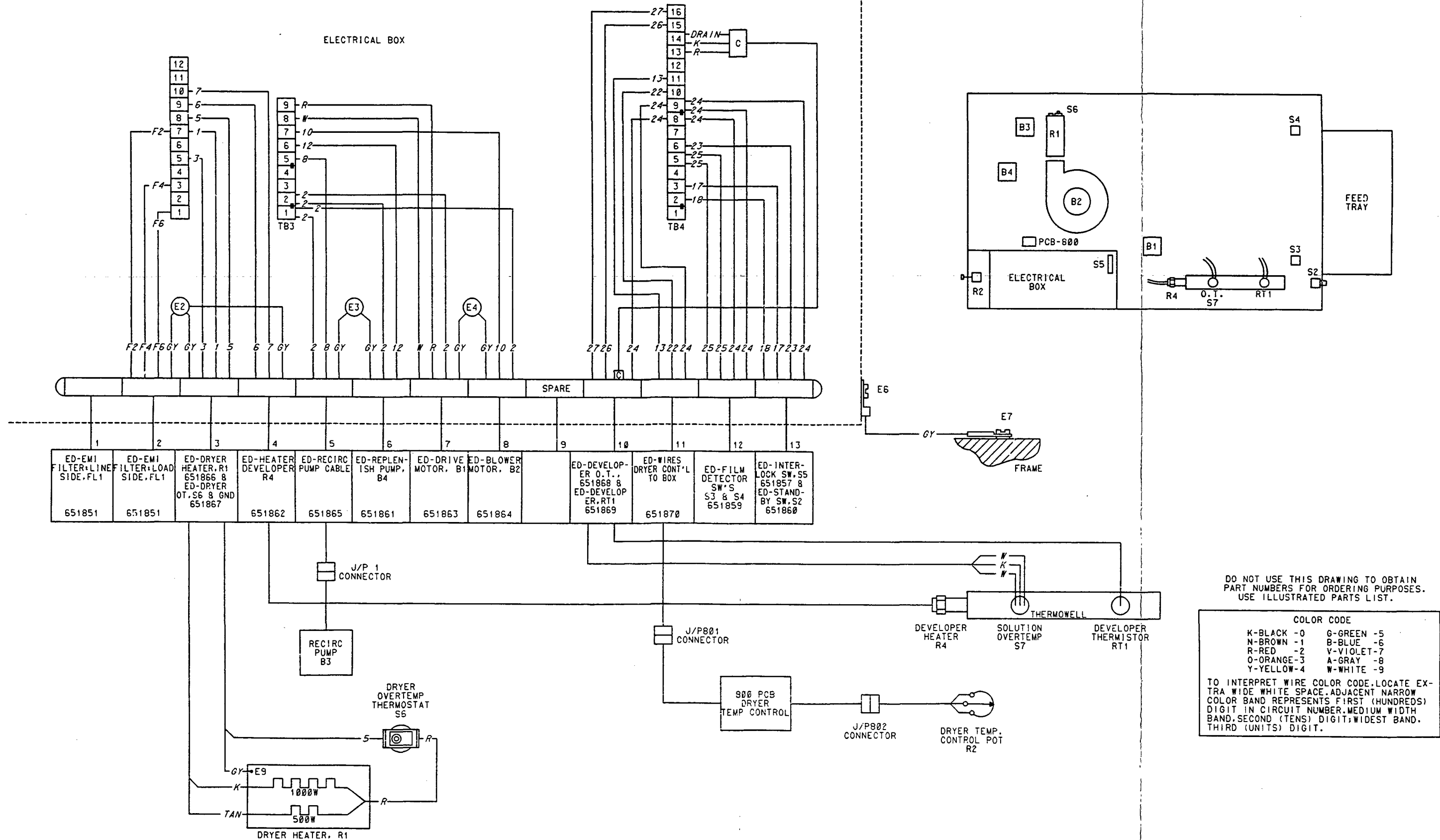
This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

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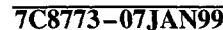
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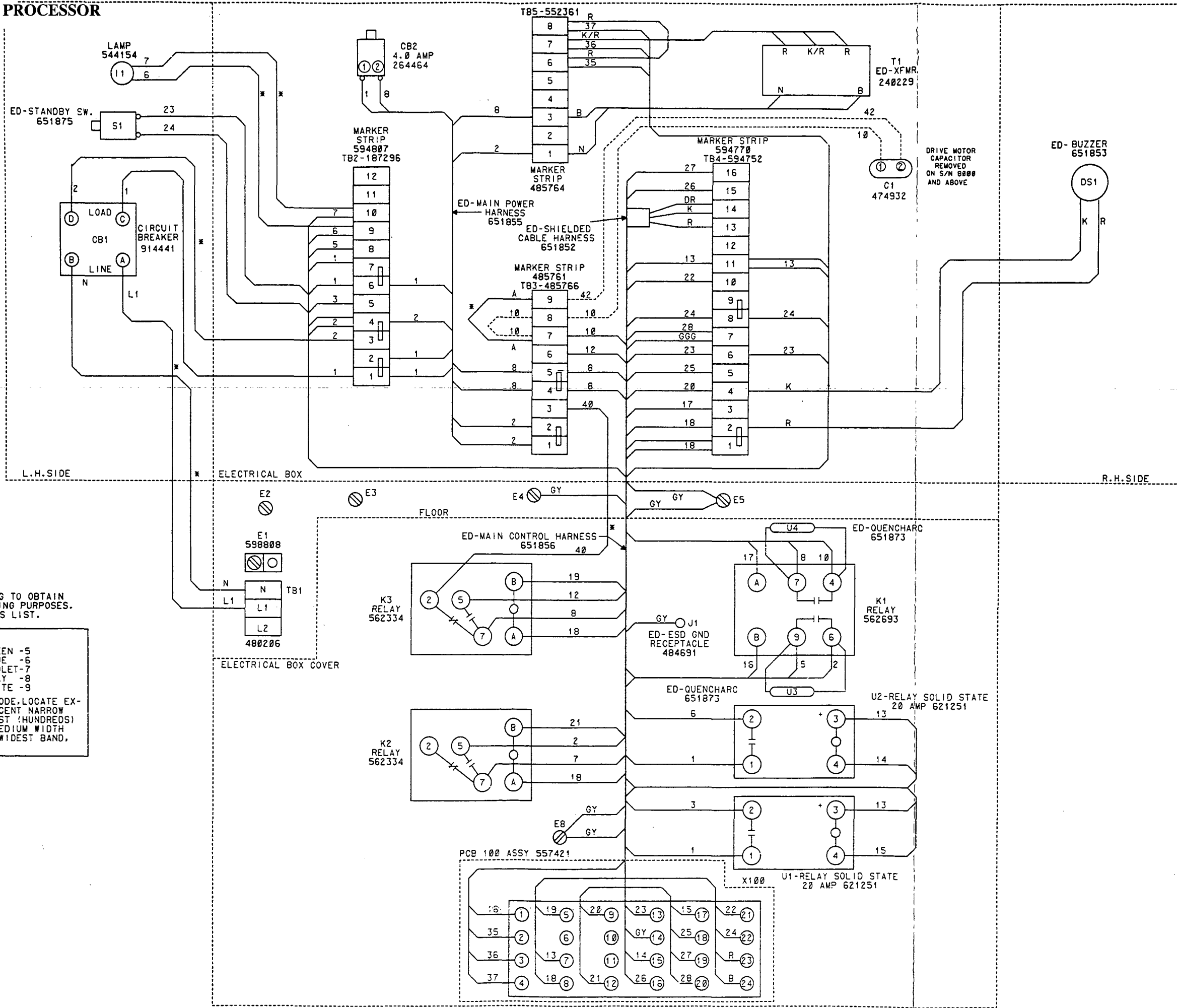
Section 1: Wiring Diagrams



CONTROL BOX in the 2000 PROCESSOR



CONTROL BOX in the 2000A PROCESSOR



DO NOT USE THIS DRAWING TO OBTAIN
PART NUMBERS FOR ORDERING PURPOSES.
USE ILLUSTRATED PARTS LIST.

COLOR CODE

K-BLACK -0	G-GREEN -5
N-BROWN -1	B-BLUE -6
R-RED -2	V-VIOLET-7
O-ORANGE-3	A-GRAY -8
Y-YELLOW-4	W-WHITE -9

TO INTERPRET WIRE COLOR CODE, LOCATE EX-
TRA WIDE WHITE SPACE. ADJACENT NARROW
COLOR BAND REPRESENTS FIRST (HUNDREDS)
DIGIT IN CIRCUIT NUMBER. MEDIUM WIDTH
BAND, SECOND (TENS) DIGIT. WIDEST BAND,
THIRD (UNITS) DIGIT.

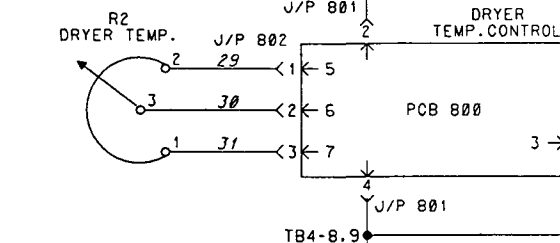
* ED-LOOSE WIRES
246841

Section 2: Circuit Diagrams

2000 PROCESSOR

NOTES:
1. TRANSFORMER T1 INPUT VOLTAGE.
(MOVE WIRE NO. 8A TO INDICATED
TERMINAL ON TB5.)

VOLTAGE	TERMINAL
200 OR 208	TB5-2
220 OR 230	TB5-3
240	TB5-4



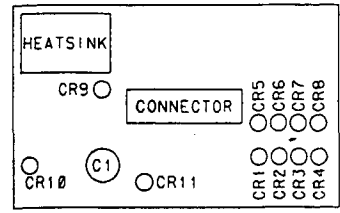
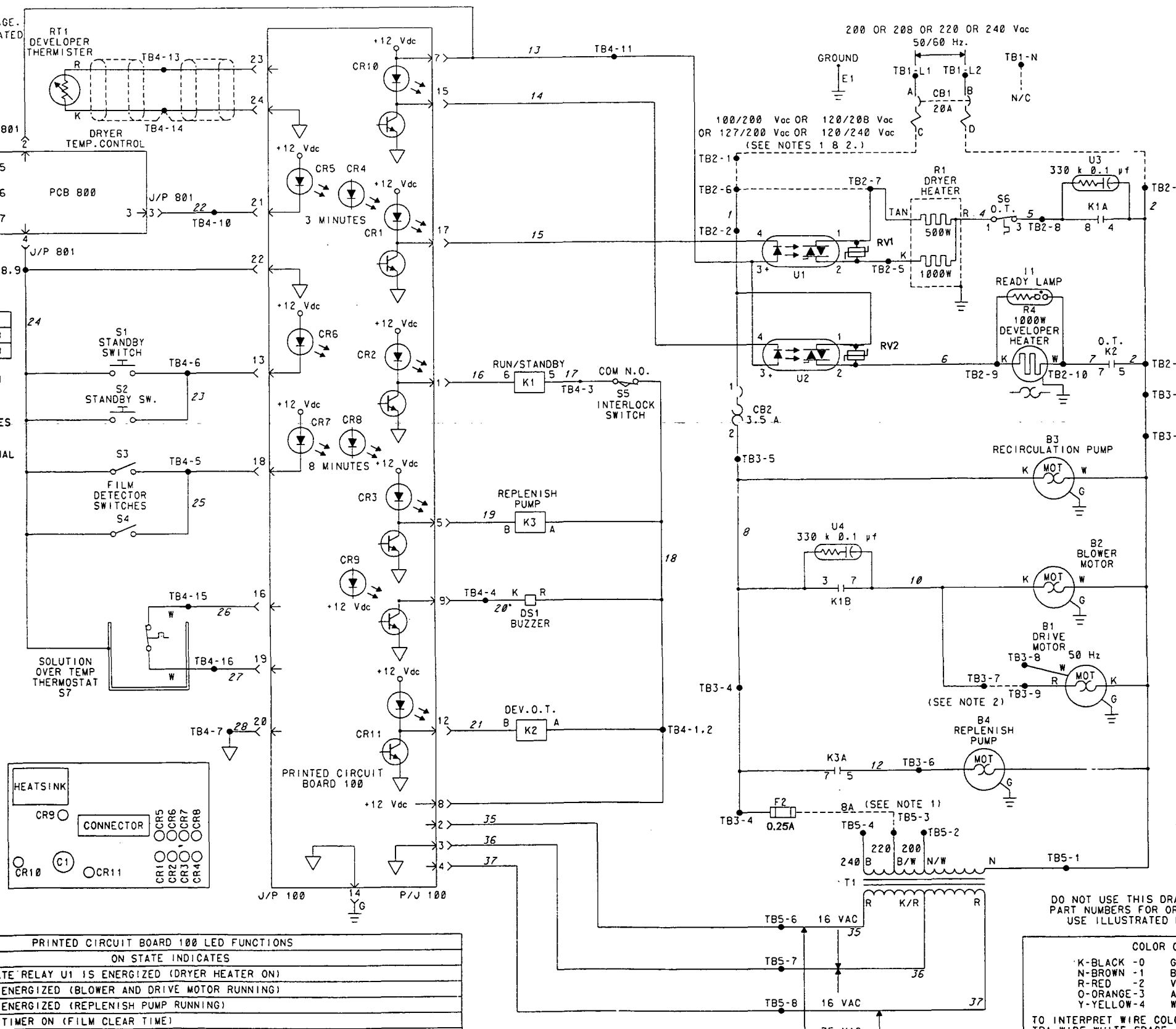
2. DRIVE MOTOR B1 FREQUENCY.
(JUMPER A)

FREQUENCY	JUMPER
50 Hz.	TB3-7 TO TB3-8
60 Hz.	TB3-7 TO TB3-9

3. ----- DENOTES WIRING WHICH
CHANGES IN ACCORDANCE WITH
POWER SERVICE USED.

4. *ITALICIZED* NUMBERS ON WIRES
DENOTES WIRE NUMBERS.

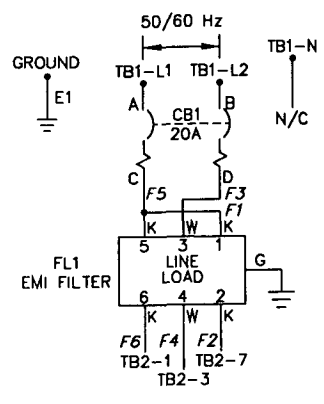
5. ALL SWITCHES SHOWN IN NORMAL
POSITION AND ALL RELAYS
SHOWN DE-ENERGIZED.



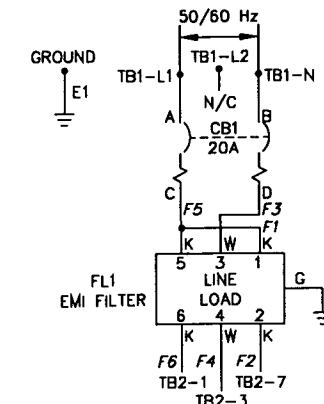
PRINTED CIRCUIT BOARD 100 LED FUNCTIONS	
LED DESIGNATION	ON STATE INDICATES
CR1	SOLID STATE RELAY U1 IS ENERGIZED (DRYER HEATER ON)
CR2	RELAY K1 ENERGIZED (BLOWER AND DRIVE MOTOR RUNNING)
CR3	RELAY K3 ENERGIZED (REPLENISH PUMP RUNNING)
CR4	3 MINUTE TIMER ON (FILM CLEAR TIME)
CR5	(DRYER TEMP CONTROL PCB 800 CALLING FOR HEAT)
CR6	SWITCH S6 IS CLOSED (STANDBY/RUN BUTTON DEPRESSED)
CR7	SWITCHES S3 AND/OR S4 ARE CLOSED (FILM IN ENTRANCE ROLLERS)
CR8	BLINKS (1 SECOND ON, 1 SECOND OFF) WHEN 8 MINUTE TIMER IS ON (STANDBY TIME)
CR9	12 Vdc AVAILABLE ON PRINTED CIRCUIT BOARD (ALWAYS ON UNDER NORMAL OPERATION)
CR10	SOLID STATE RELAY U2 IS ENERGIZED (DEVELOPER HEATER ON)
CR11	RELAY K2 IS ENERGIZED (ALWAYS ON UNDER NORMAL OPERATION)

PROCESSORS WITH 6 TERMINAL EMI FILTERS

SHOWN AS WIRED WHEN
SHIPPED FROM FACTORY FOR
120/200 VAC OR 120/208 VAC
OR 127/200 VAC OR 120/240 VAC
SEE NOTES 1 & 2

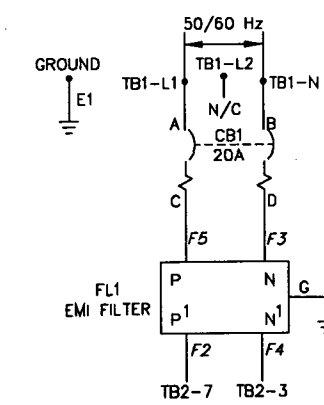
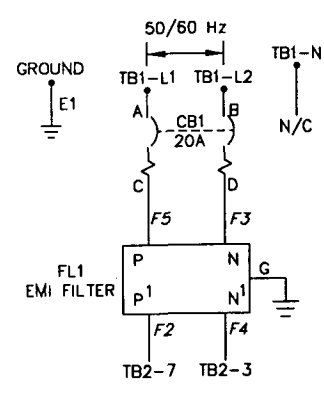


OPTIONAL WIRING FOR
220/380 VAC OR 230/400 VAC
OR 240/415 VAC
SEE NOTES 1 & 2



PROCESSORS WITH 4 TERMINAL EMI FILTERS

SHOWN AS WIRED WHEN
SHIPPED FROM FACTORY FOR
120/200 VAC OR 120/208 VAC
OR 127/200 VAC OR 120/240 VAC
SEE NOTES 1 & 2

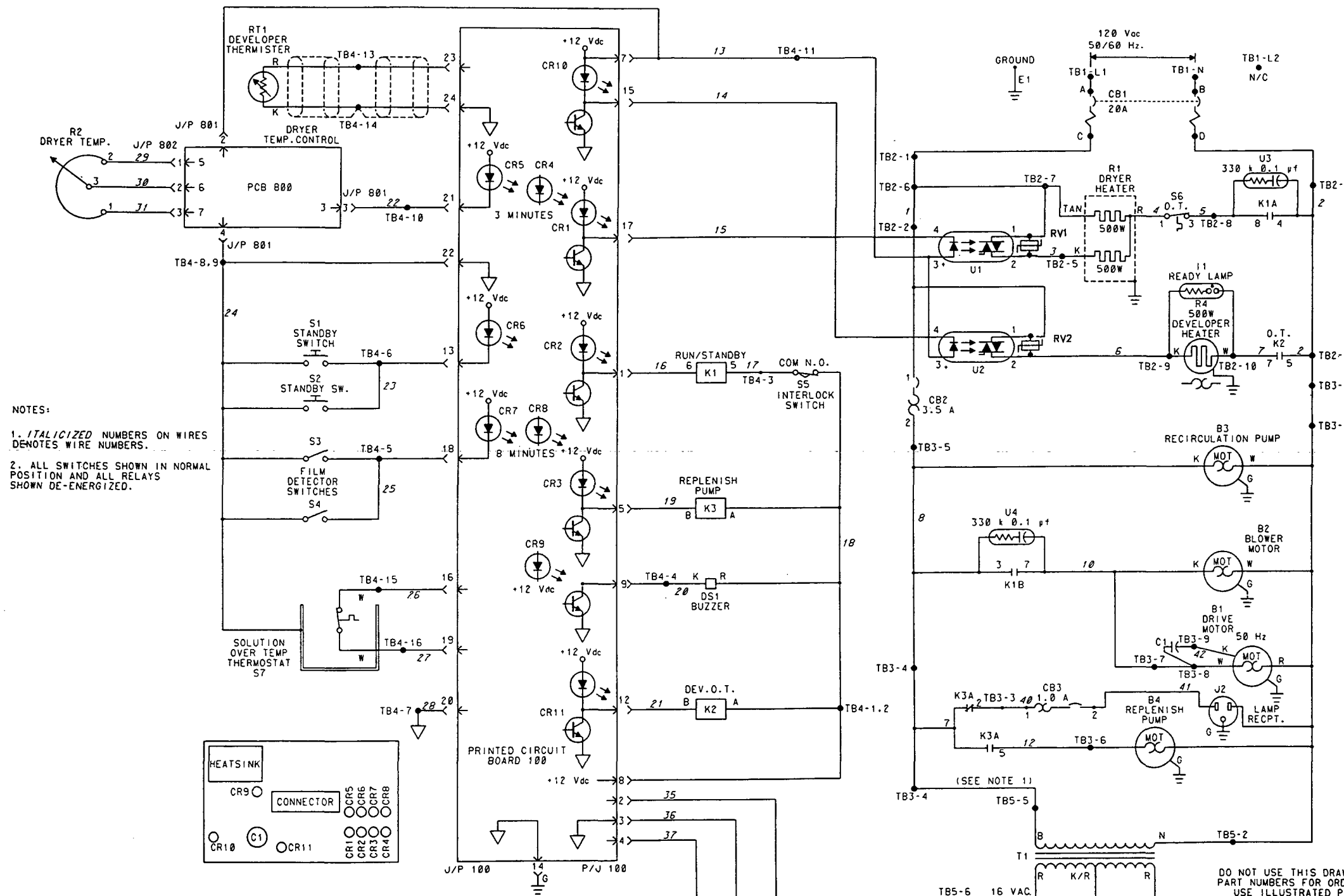


DO NOT USE THIS DRAWING TO OBTAIN
PART NUMBERS FOR ORDERING PURPOSES.
USE ILLUSTRATED PARTS LIST.

COLOR CODE	
K-BLACK -0	G-GREEN -5
N-BROWN -1	B-BLUE -6
R-RED -2	V-VIOLET -7
O-ORANGE -3	A-GRAY -8
Y-YELLOW -4	W-WHITE -9

TO INTERPRET WIRE COLOR CODE, LOCATE EXTRA WIDE WHITE SPACE. ADJACENT NARROW COLOR BAND REPRESENTS FIRST (HUNDREDS) DIGIT IN CIRCUIT NUMBER. MEDIUM WIDTH BAND, SECOND (TENS) DIGIT. WIDEST BAND, THIRD (UNITS) DIGIT.

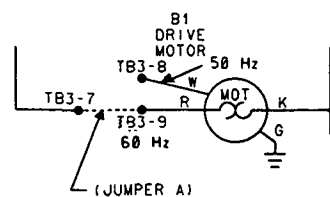
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49	49	22	49											49
86	86	85	86											86



NOTES:
1. ITALICIZED NUMBERS ON WIRES DENOTES WIRE NUMBERS.
2. ALL SWITCHES SHOWN IN NORMAL POSITION AND ALL RELAYS SHOWN DE-ENERGIZED.

PRINTED CIRCUIT BOARD 100 LED FUNCTIONS	
LED DESIGNATION	ON STATE INDICATES
CR1	SOLID STATE RELAY U1 IS ENERGIZED (DRYER HEATER ON)
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CR6	SWITCH S6 IS CLOSED (STANDBY/RUN BUTTON DEPRESSED)
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CR9	12 Vdc AVAILABLE ON PRINTED CIRCUIT BOARD (ALWAYS ON UNDER NORMAL OPERATION)
CR10	SOLID STATE RELAY U2 IS ENERGIZED (DEVELOPER HEATER ON)
CR11	RELAY K2 IS ENERGIZED (ALWAYS ON UNDER NORMAL OPERATION)

DRIVE MOTOR CONFIGURATION FOR S/N 8,000 AND ABOVE



DRIVE MOTOR B-1 FREQUENCY

FREQUENCY	JUMPER A
50 Hz	TB3-7 TO TB3-8
60 Hz	TB3-7 TO TB3-9

.....DENOTES WIRING WHICH CHANGES IN ACCORDANCE WITH POWER SERVICE USED

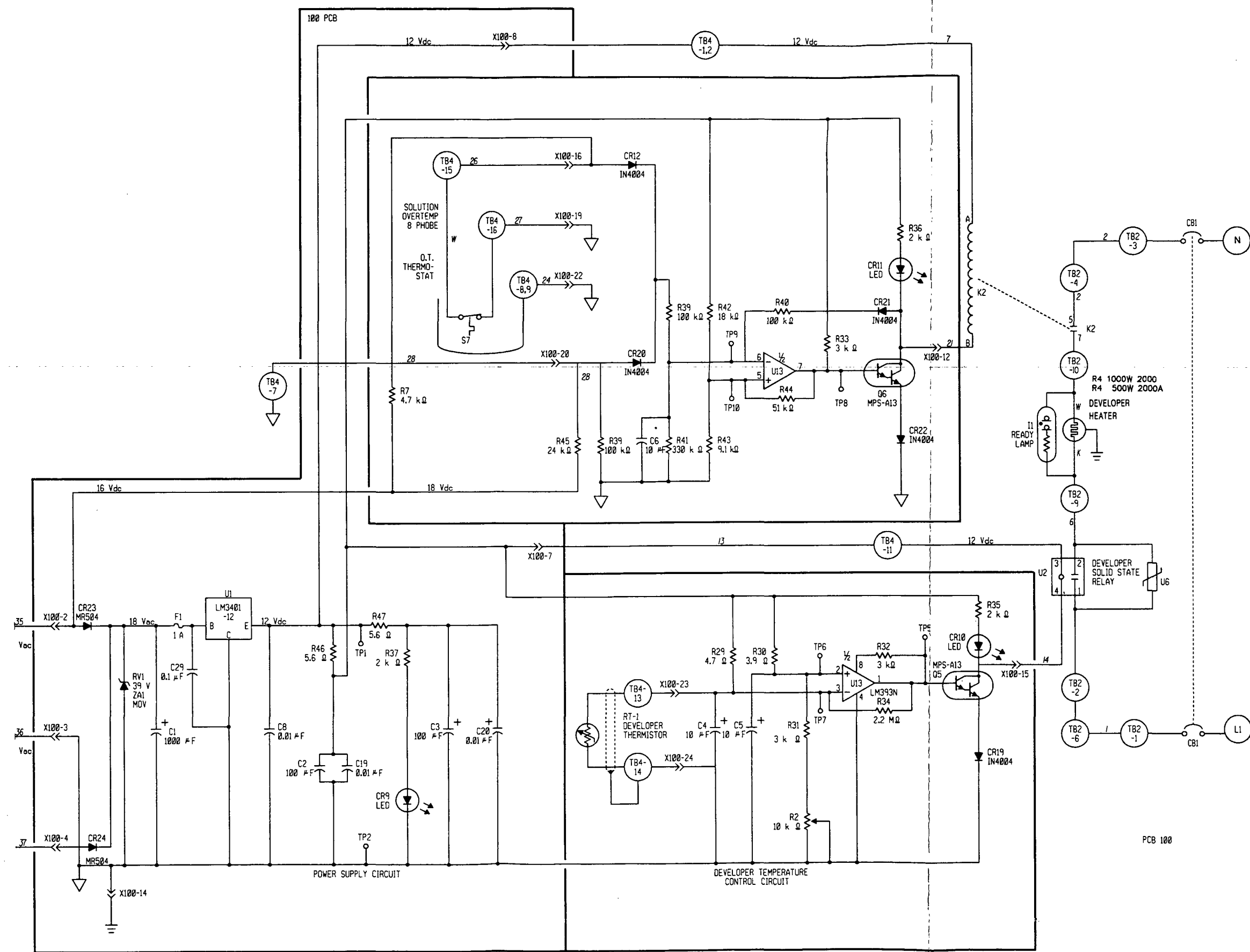
DO NOT USE THIS DRAWING TO OBTAIN PART NUMBERS FOR ORDERING PURPOSES. USE ILLUSTRATED PARTS LIST.

COLOR CODE

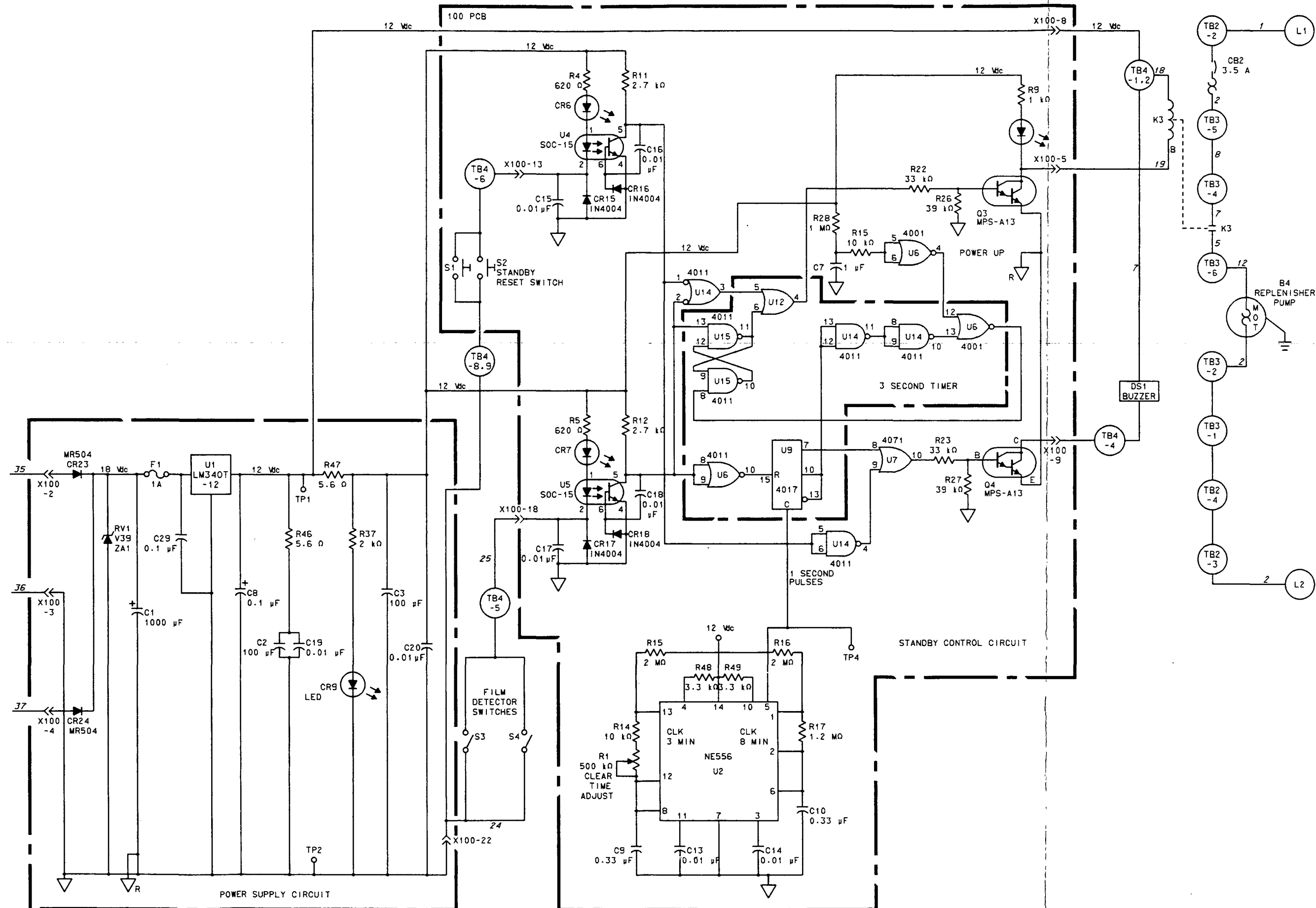
K-BLACK -0	G-GREEN -5
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R-RED -2	V-VIOLET -7
O-ORANGE -3	A-GRAY -8
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TO INTERPRET WIRE COLOR CODE, LOCATE EXTRA WIDE WHITE SPACE. ADJACENT NARROW COLOR BAND REPRESENTS FIRST (HUNDREDS) DIGIT IN CIRCUIT NUMBER. MEDIUM WIDTH BAND, SECOND (TENS) DIGIT. WIDEST BAND, THIRD (UNITS) DIGIT.

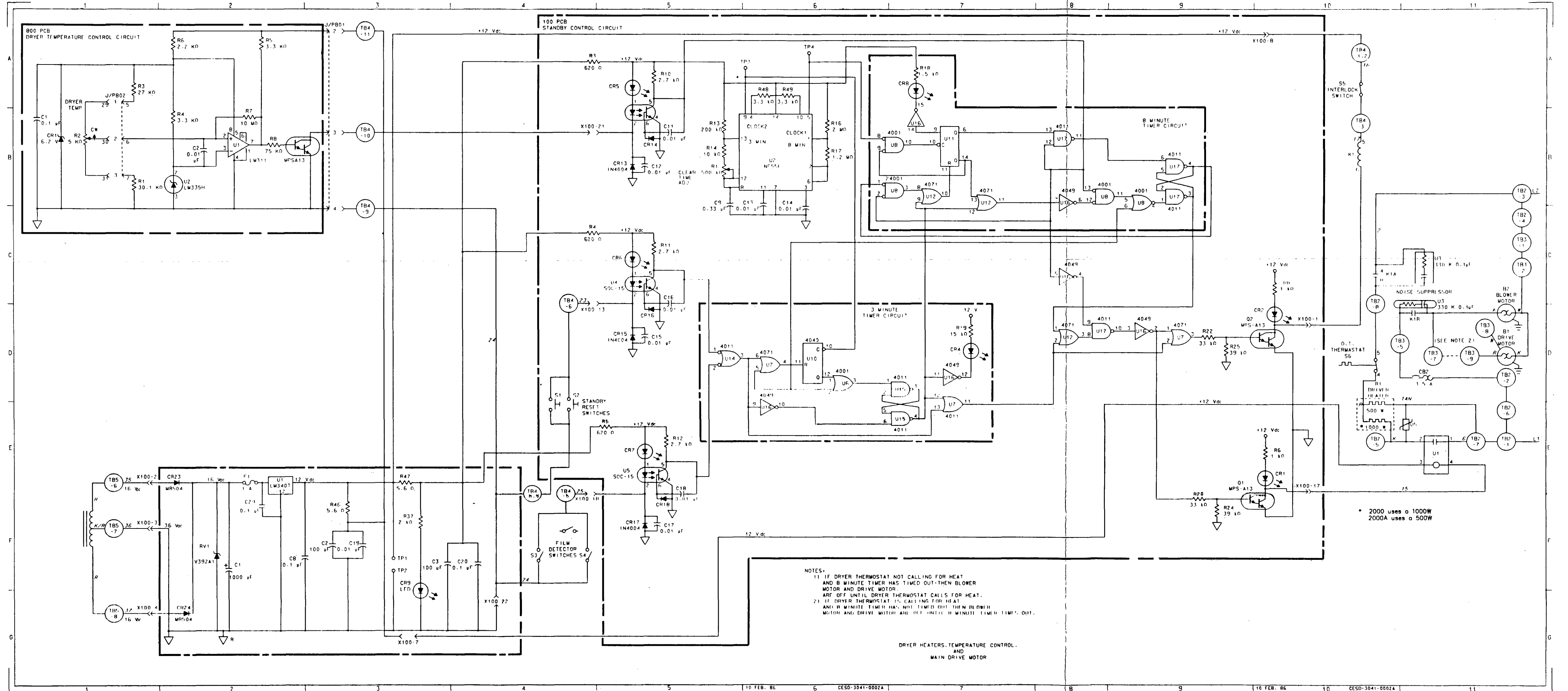
1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	1	2	3	4	5	6	7	8	9	A	B	C	D	E
06	05	06	05											06

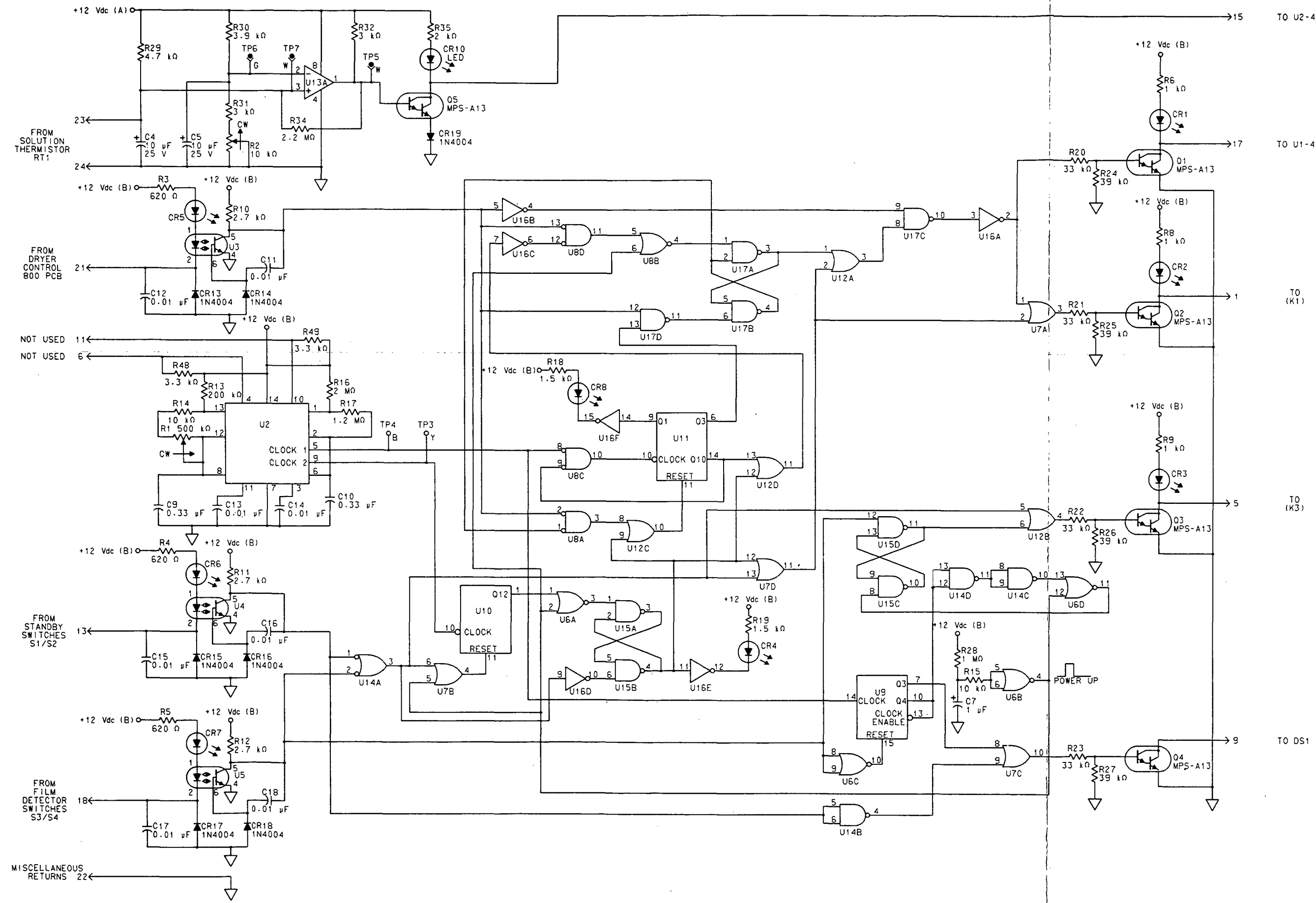


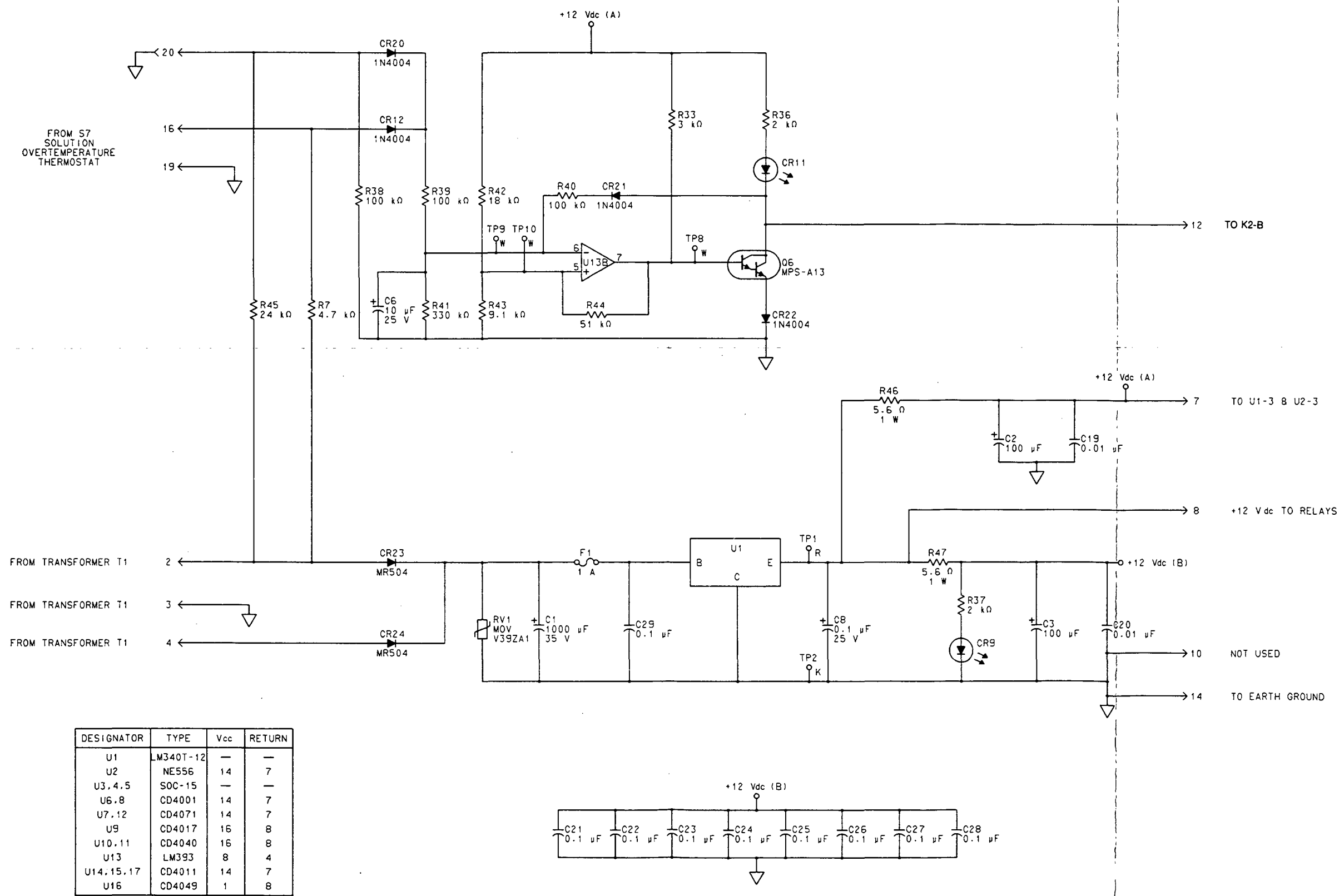
Replenishment Control System for the 2000/2000A PROCESSOR



DRYER HEATER, Temperature Control System and MAIN DRIVE MOTOR for the 2000/2000A PROCESSOR



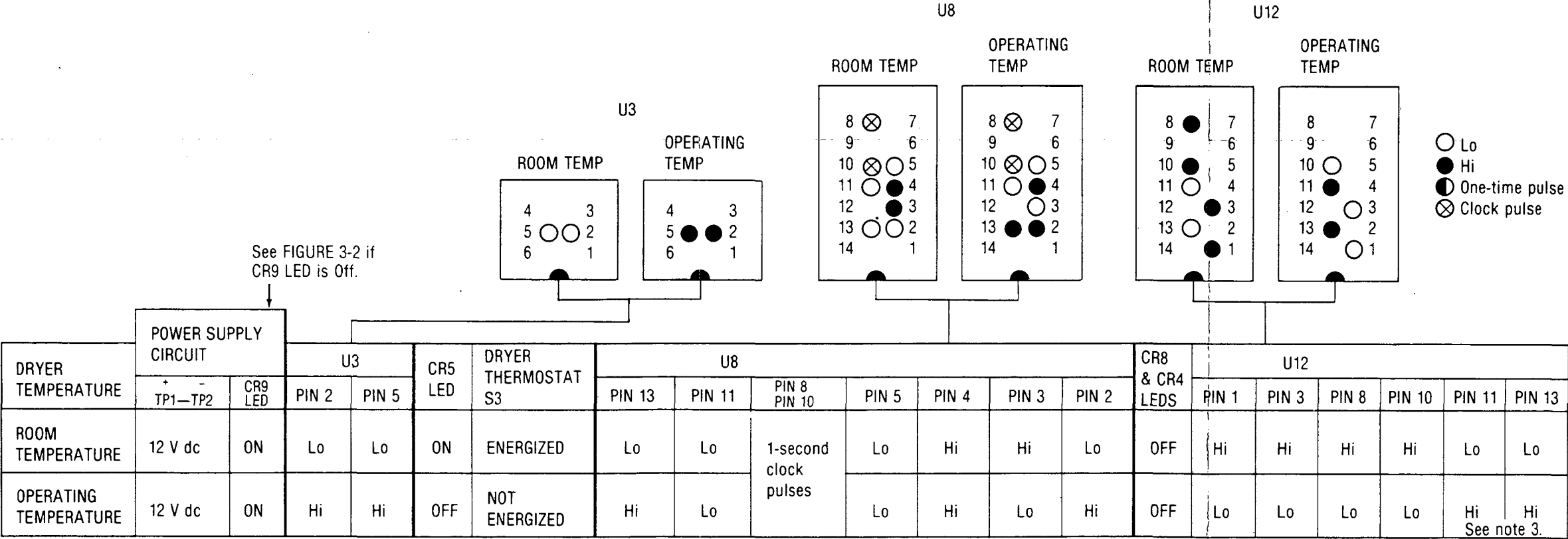




Section 3: Circuit Board Flowcharts

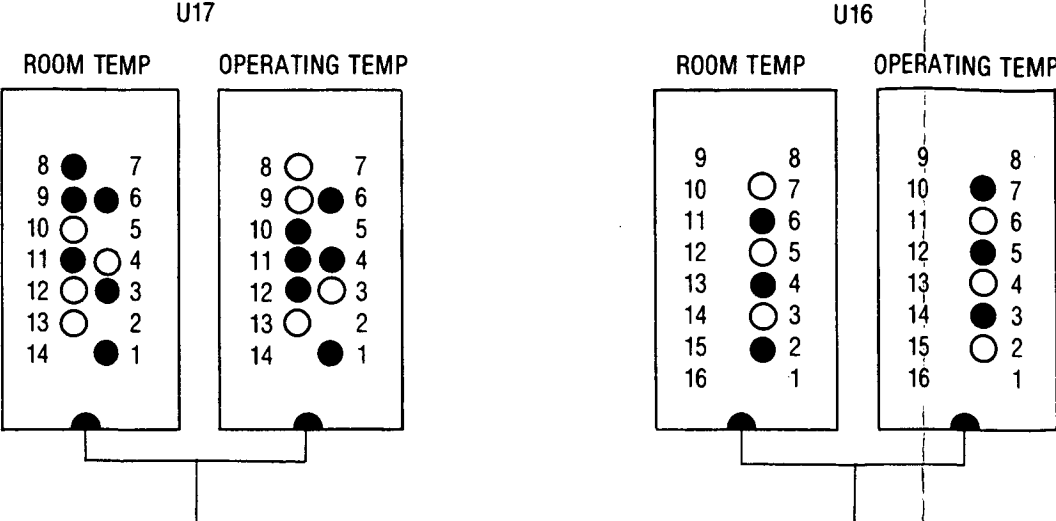
FIRST, CHECK:

1. At "ROOM TEMPERATURE":
- CR2 LED ON
CR4 LED OFF
CR8 LED OFF
2. At "OPERATING TEMPERATURE":
- CR2 LED OFF
CR4 LED OFF
CR8 LED OFF
3. FILM DETECTOR SWITCHES S3 and/or S4
- Actuated Open.
4. INTERLOCK SWITCH S2 Actuated Closed.



NOTES:

1. Voltages measured with respect to TP2 unless otherwise noted.
2. Voltages measured by a multimeter with an input impedance of 20,000 ohms per volt dc or more.
3. Goes Hi after 8-minute timer times out (CR8 LED is off).
4. Lo = Less than 1V dc
Hi = Greater than 10V dc



DRYER TEMPERATURE	U17										U16					
	PIN 13	PIN 12	PIN 11	PIN 10	PIN 9	PIN 8	PIN 6	PIN 4	PIN 3	PIN 1	PIN 7	PIN 6	PIN 5	PIN 4	PIN 3	PIN 2
ROOM TEMPERATURE	Lo	Lo	Hi	Lo	Hi	Hi	Hi	Lo	Hi	Hi	Lo	Hi	Lo	Hi	Lo	Hi
OPERATING TEMPERATURE	Lo	Hi	Hi	Hi	Lo	Lo	Hi	Hi	Lo	Hi	Hi	Lo	Hi	Lo	Hi	Lo

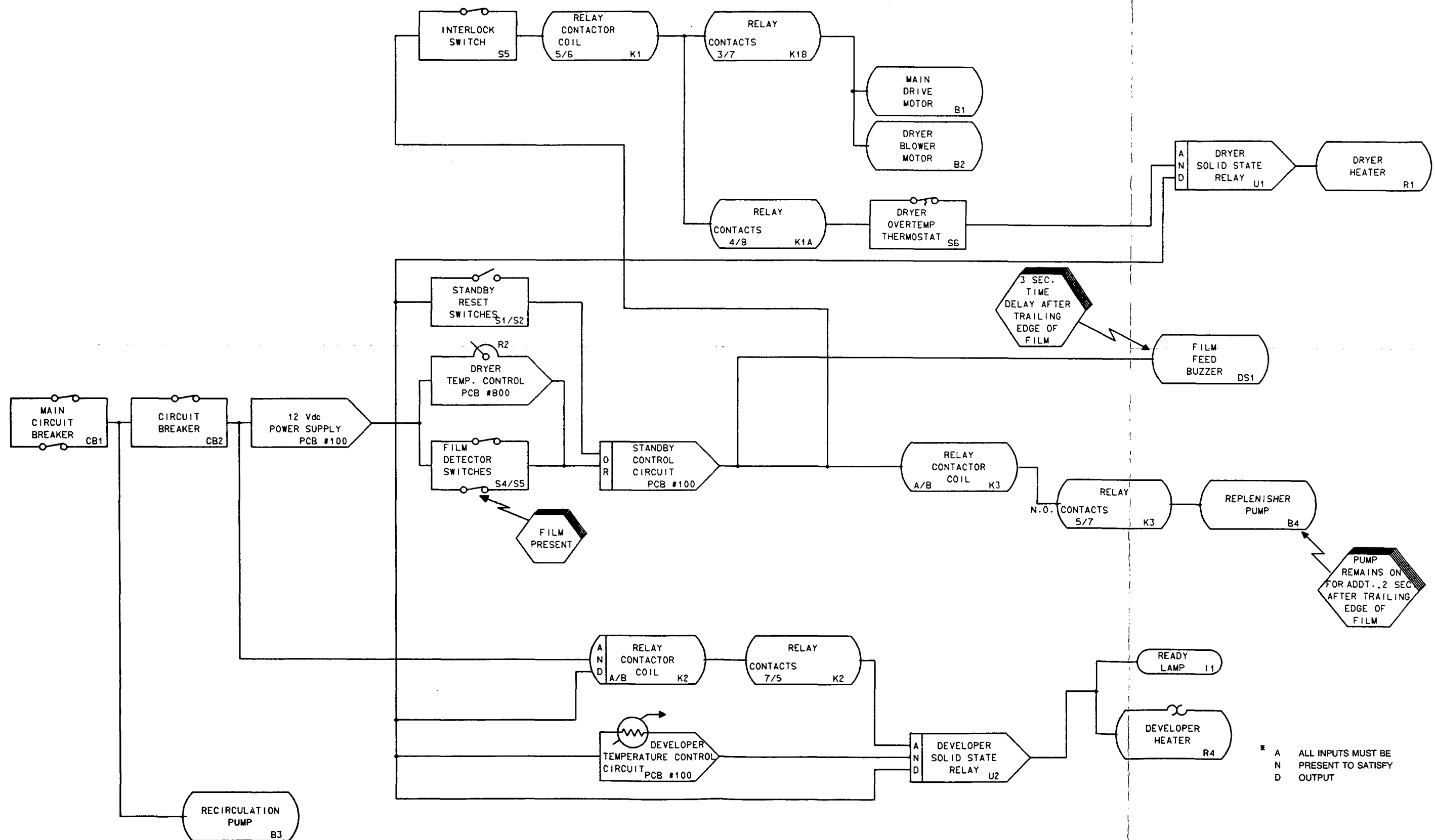
NO BLOWER MOTOR, NO DRIVE MOTOR	U7	CR2 LED	TRANSISTOR Q2	RELAY K1 CONTACTS		RELAY K1 CONTACTOR COIL		BLOWER MOTOR B2	DRIVE MOTOR B1
	PIN 3			3	7	5	6		
ROOM TEMPERATURE	Hi	ON	ON	0 V ac	0 V ac	ENERGIZED		ON	ON
OPERATING TEMPERATURE	Lo	OFF	OFF	120 V	120 V	NOT ENERGIZED		OFF	OFF

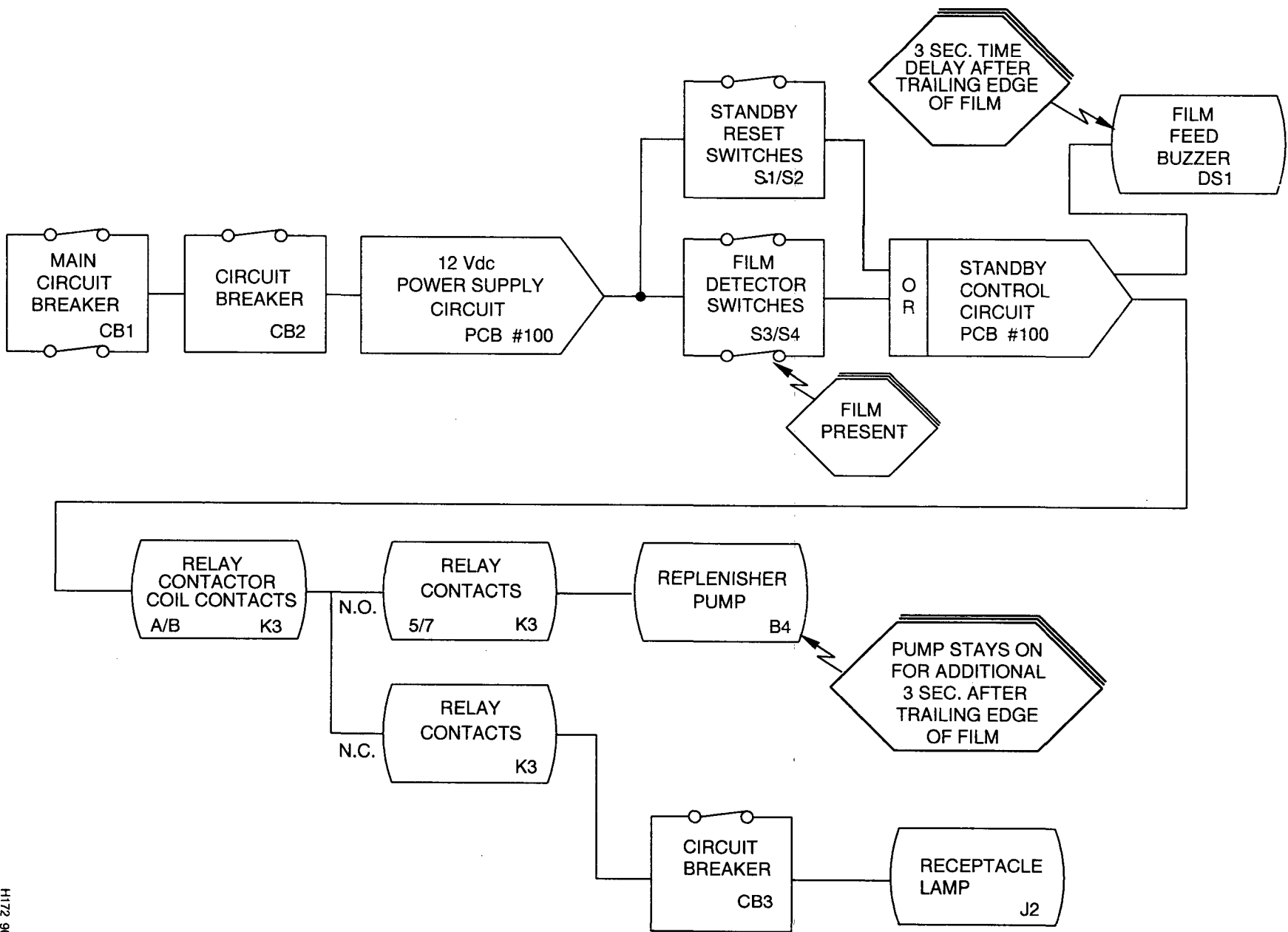
NO DRYER HEATER	CR5 and CR1 LEDS	TRANSISTOR Q1	SOLID-STATE RELAY U1		SOLID-STATE RELAY U1	RELAY K1 CONTACTS		DRYER HEATER R1
			PIN 4	PIN 3		4	8	
ROOM TEMPERATURE	ON	ON	0 V dc	12 V dc	ENERGIZED	ENERGIZED		ON
OPERATING TEMPERATURE	OFF	OFF	12 V dc	12 V dc	NOT ENERGIZED	ENERGIZED		OFF

U7

ROOM TEMP OPERATING TEMP

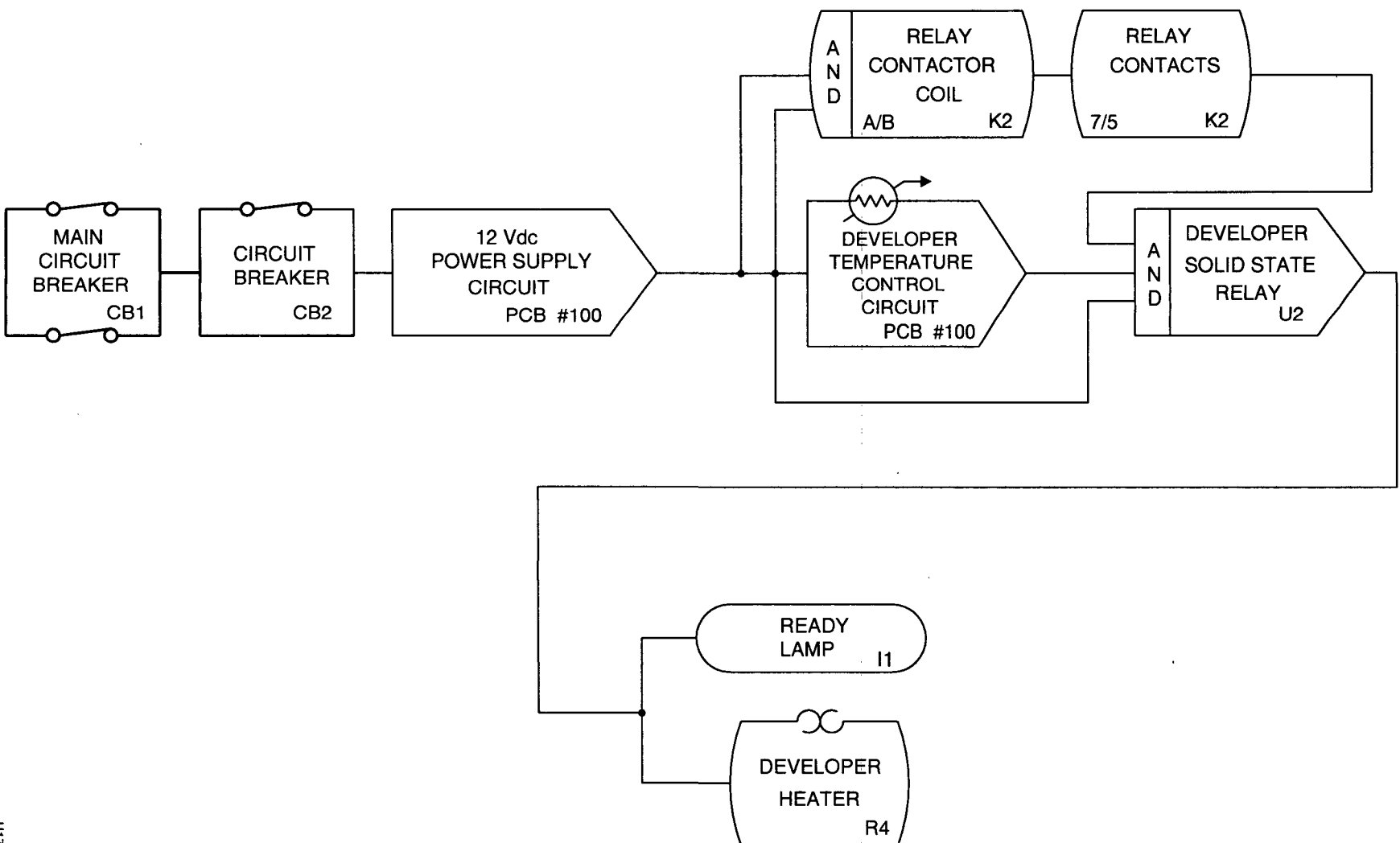
Section 4: Sequence of Operations Charts





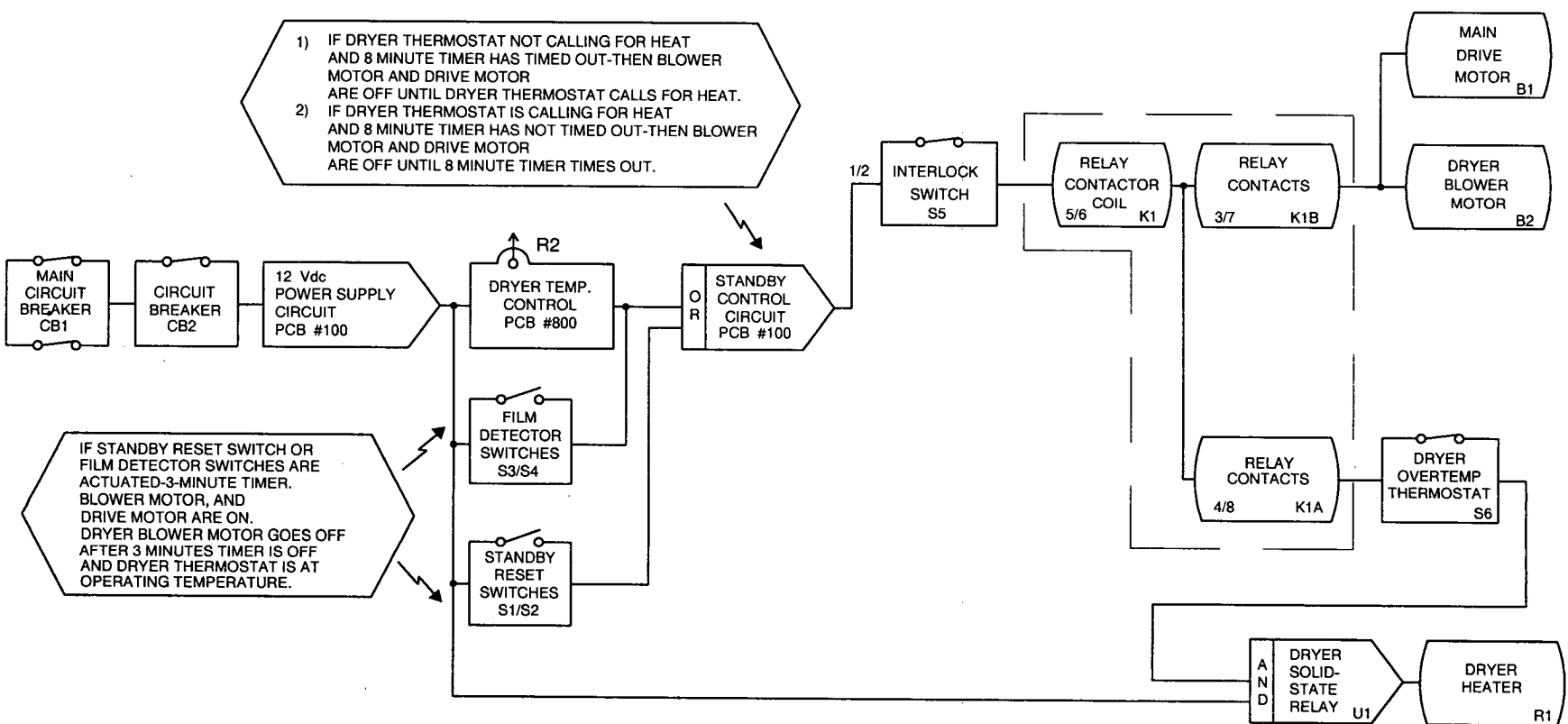
H172_9001EC

Developer Temperature Control System for the 2000/2000A PROCESSOR



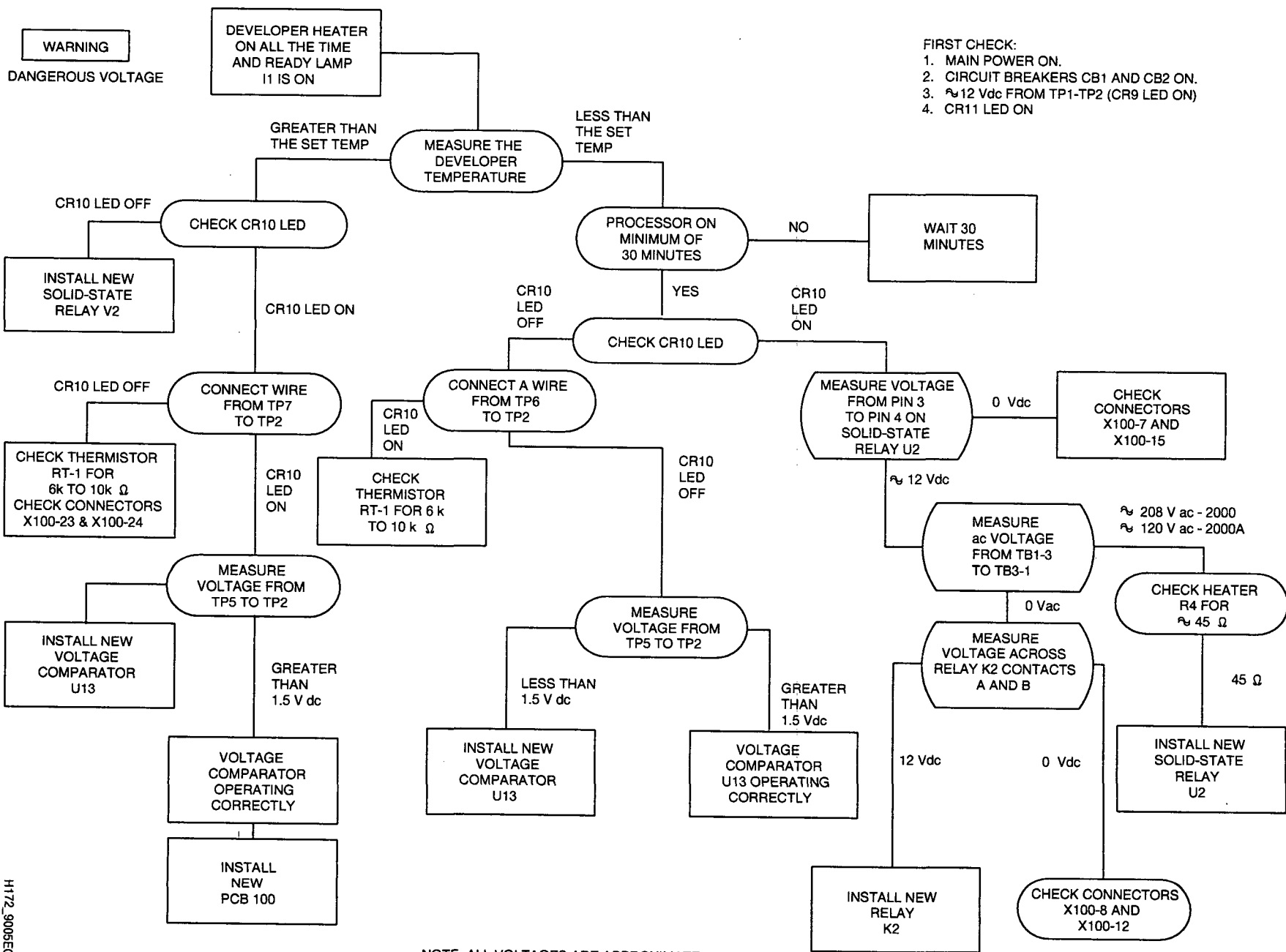
H172_0005EC

DRYER Temperature Control System and MAIN DRIVE MOTOR for the 2000/200A PROCESSOR



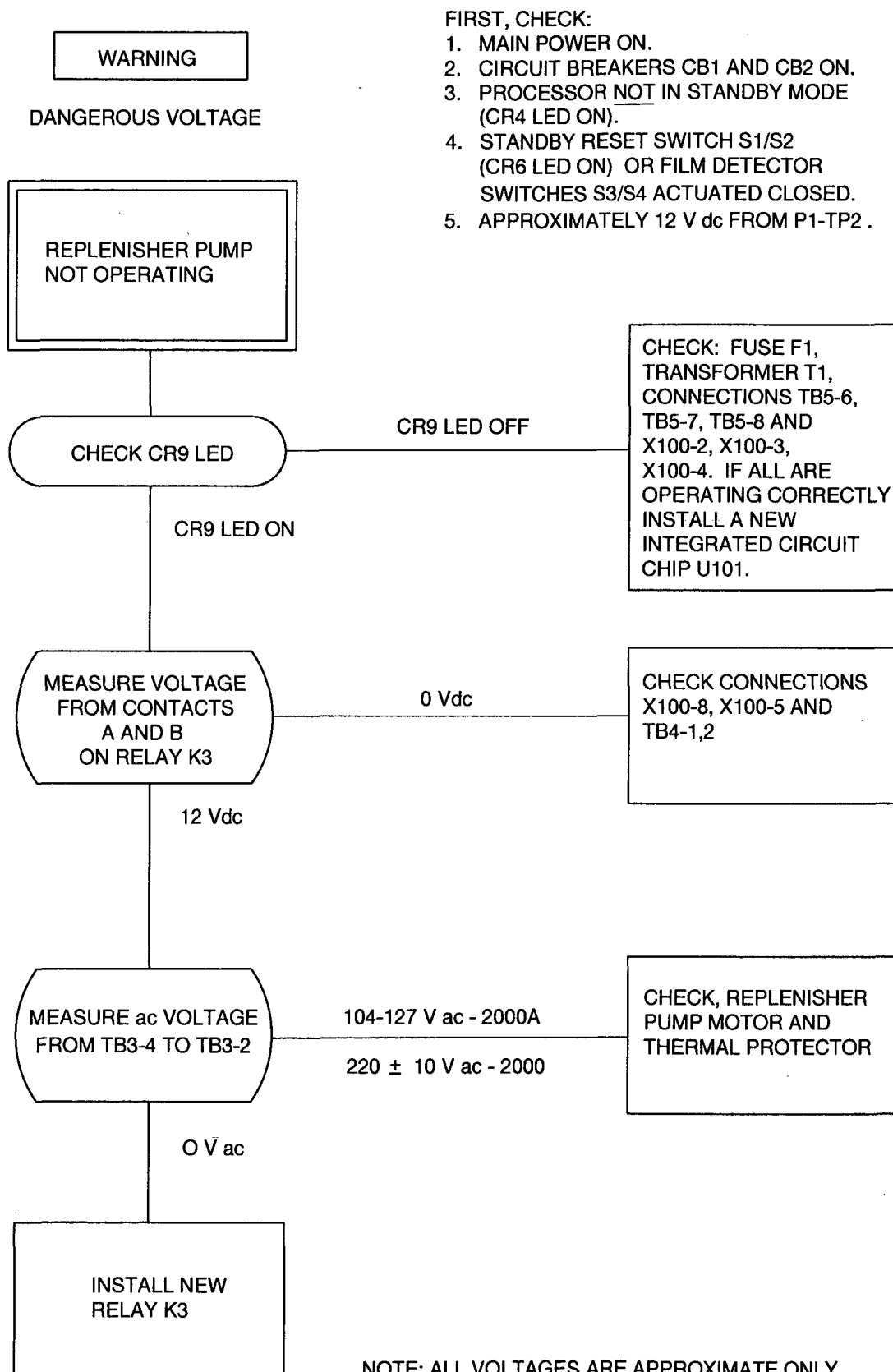
H172_0004EC_

Section 5: Diagnostic Flowcharts



H172_9005EC

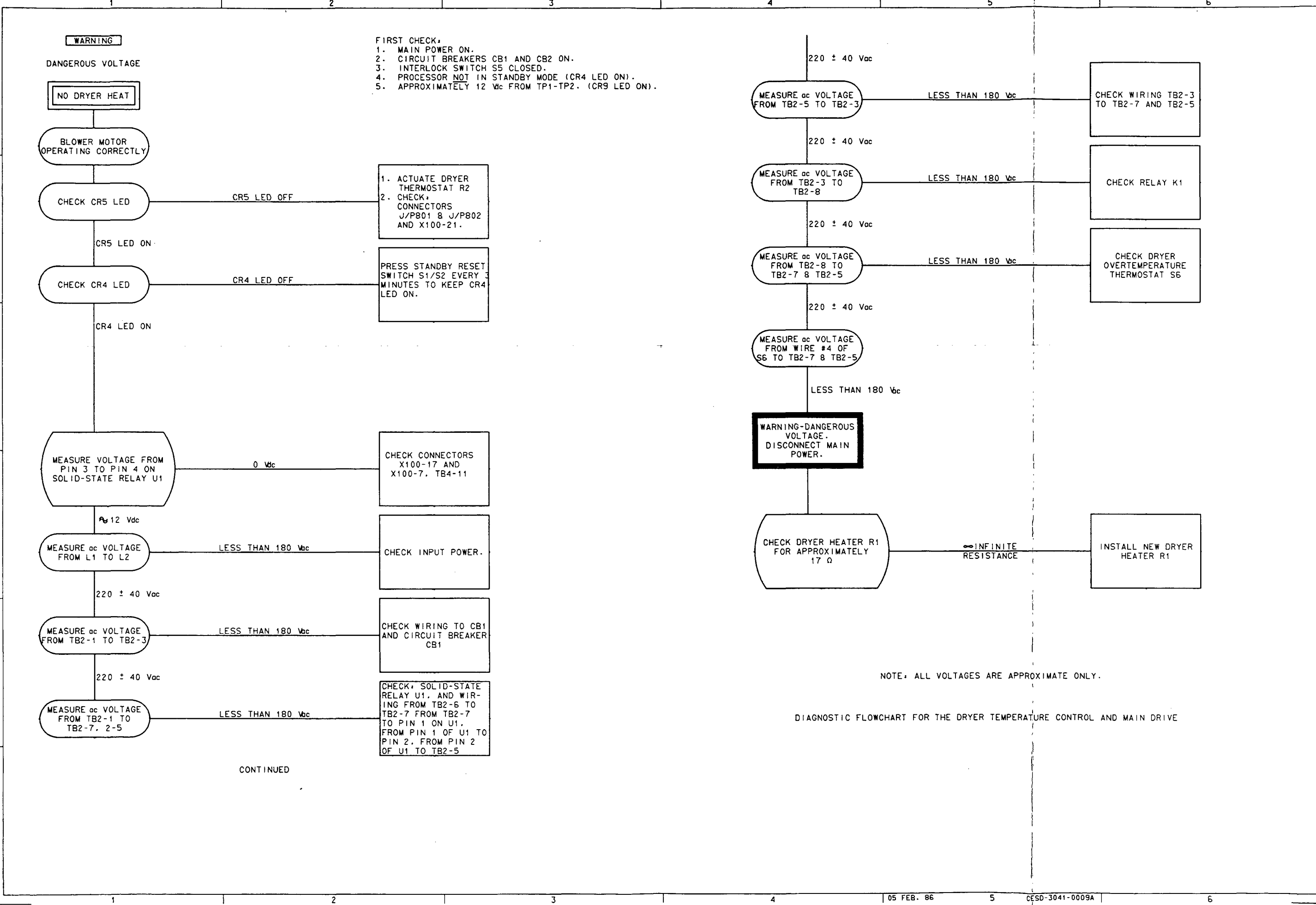
Replenishment Control System for the 2000/2000A PROCESSOR



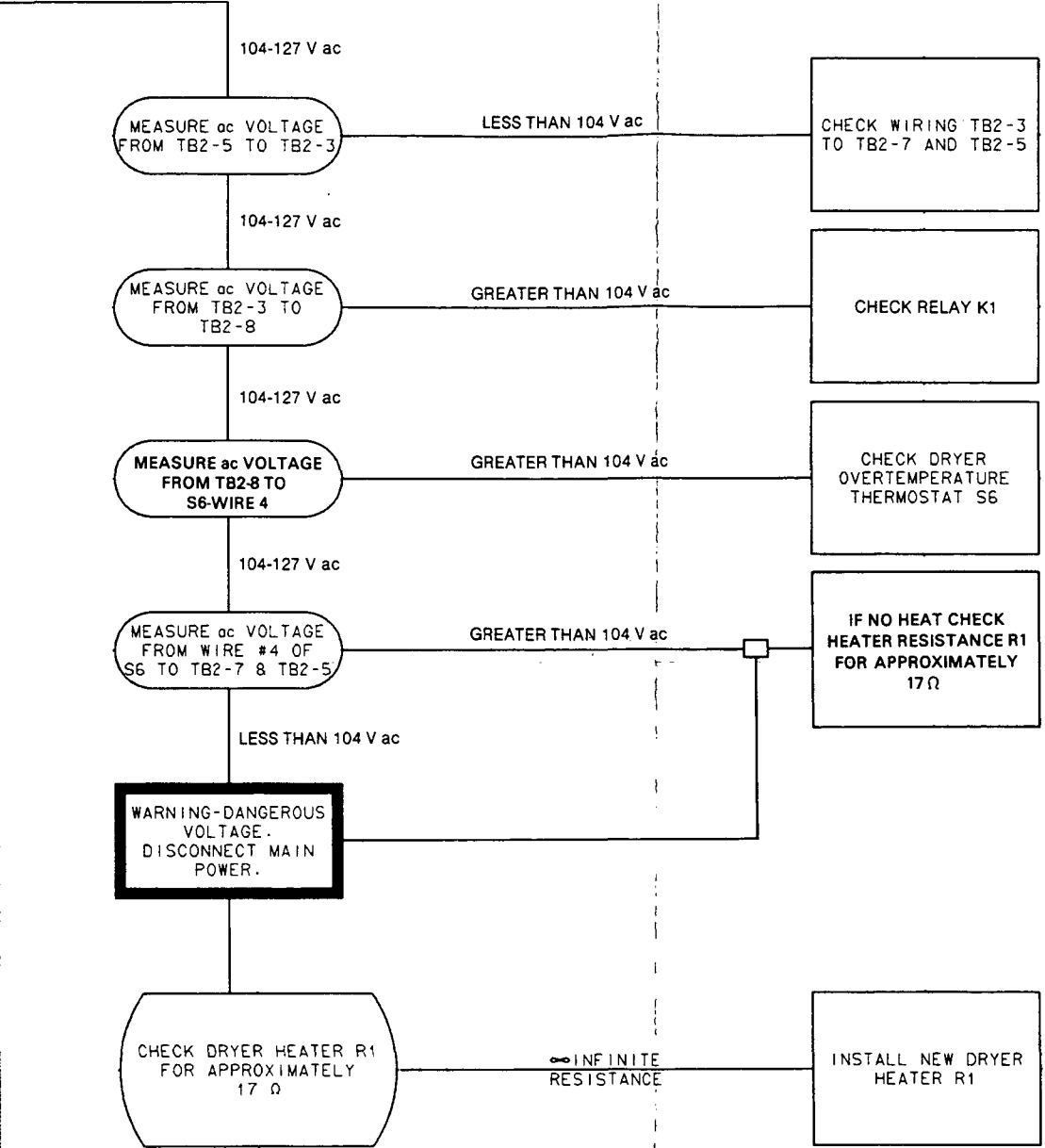
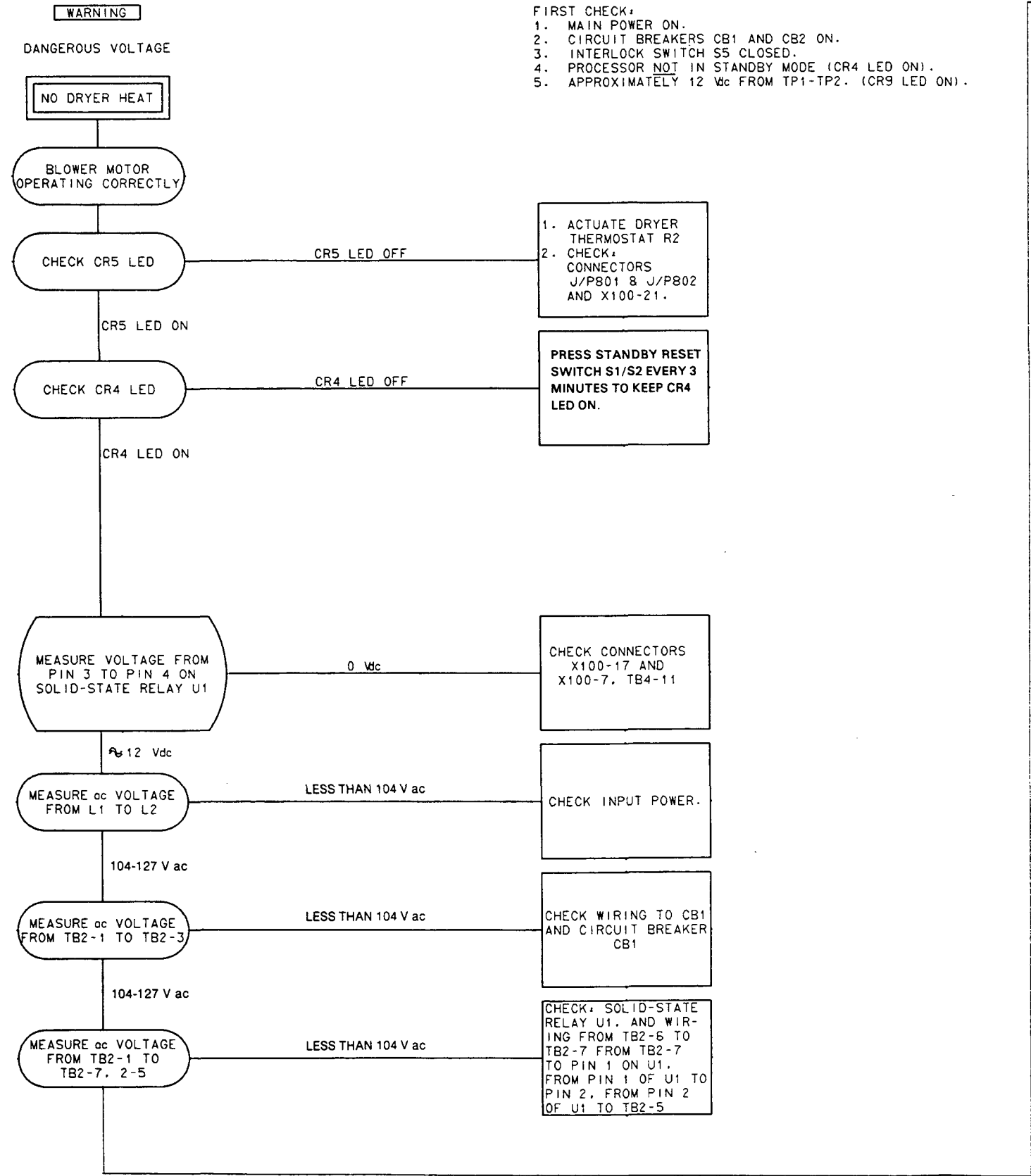
NOTE: ALL VOLTAGES ARE APPROXIMATE ONLY.

H172_9002EC

No Heat in the DRYER of a 2000 PROCESSOR



No Heat in the DRYER of a 2000A PROCESSOR



NOTE: ALL VOLTAGES ARE APPROXIMATE ONLY.

DIAGNOSTIC FLOWCHART FOR THE DRYER TEMPERATURE CONTROL AND MAIN DRIVE

Malfunction of the BLOWER MOTOR or DRIVE MOTOR in a 2000 or 2000A PROCESSOR

WARNING

DANGEROUS VOLTAGE

FIRST, CHECK:

1. MAIN POWER ON.
2. CIRCUIT BREAKERS CB1 AND CB2 ON.
3. INTERLOCK SWITCH S5 CLOSED.
4. PROCESSOR NOT IN STANDBY MODE (CR4 LED ON).
6. APPROXIMATELY 12 Vdc FROM TP1-TP2 (CR5 LED ON).

NO BLOWER MOTOR
NO DRIVE MOTOR

CHECK CR9 LED

CR9 LED OFF

CHECK: FUSE F1,
TRANSFORMER T1,
CONNECTORS X100-2
X100-3, X100-4. IF ALL
ARE OPERATING CORRECTLY,
INSTALL A NEW INTEGRATED
CIRCUIT CHIP U101.

CR9 LED ON

CHECK CR4 LED

CR4 LED OFF

PRESS STANDBY RESET
SWITCH S1/S2 EVERY 3
MINUTES TO KEEP CR4
LED ON. IF NOT ON, SEE
FIGURE 5-6.

CR4 LED ON

MEASURE VOLTAGE FROM
PIN 5 TO PIN 6 ON
RELAY K1

0 Vdc

CHECK: CONNECTORS
X100-8, X100-1,
INTERLOCK SWITCH S5

12 Vdc

MEASURE ac VOLTAGE
FROM TB3-5 TO
TB3-7

GREATER
THAN 2 V ac

INSTALL NEW RELAY K1.

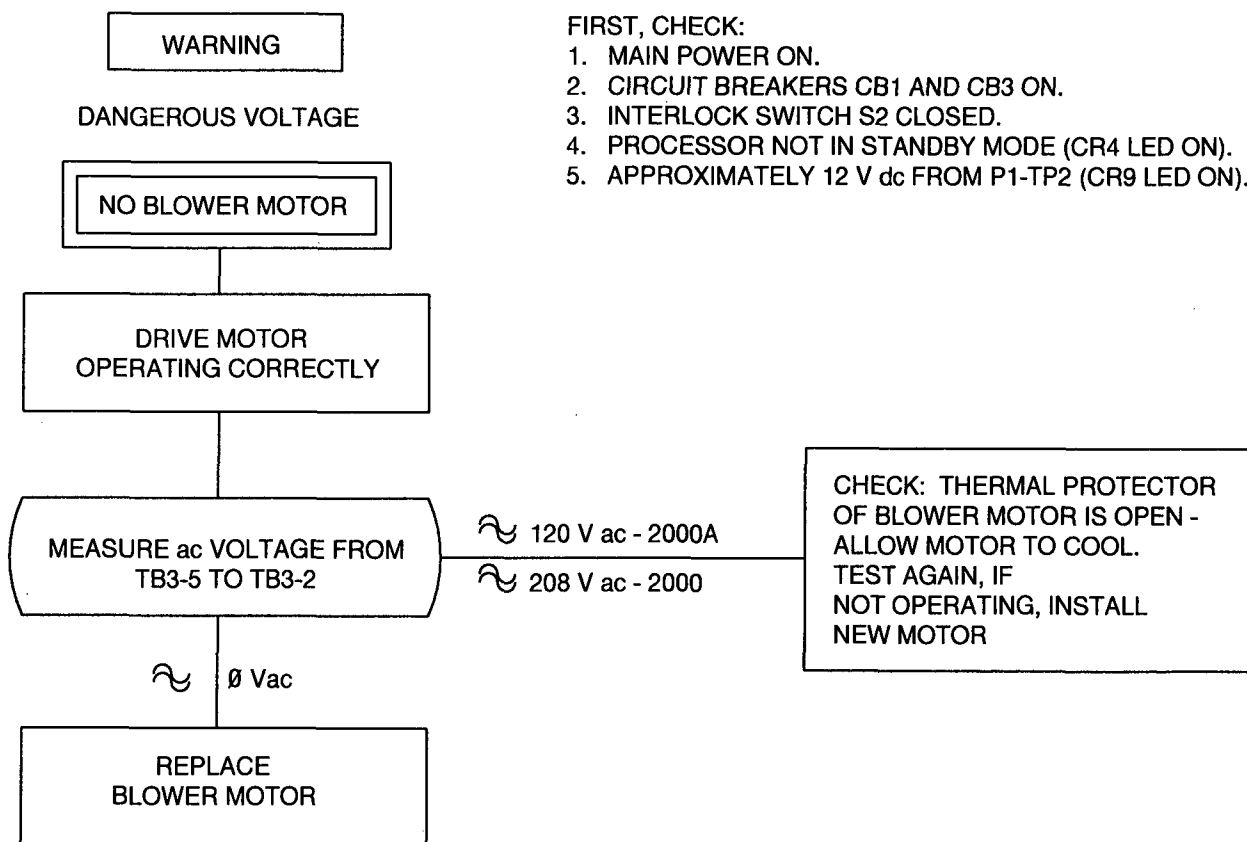
NOTE:

ALL VOLTAGES ARE APPROXIMATE ONLY

DIAGNOSTIC FLOWCHART FOR THE DRYER TEMPERATURE CONTROL, AND MAIN DRIVE.

H172_0003EC_

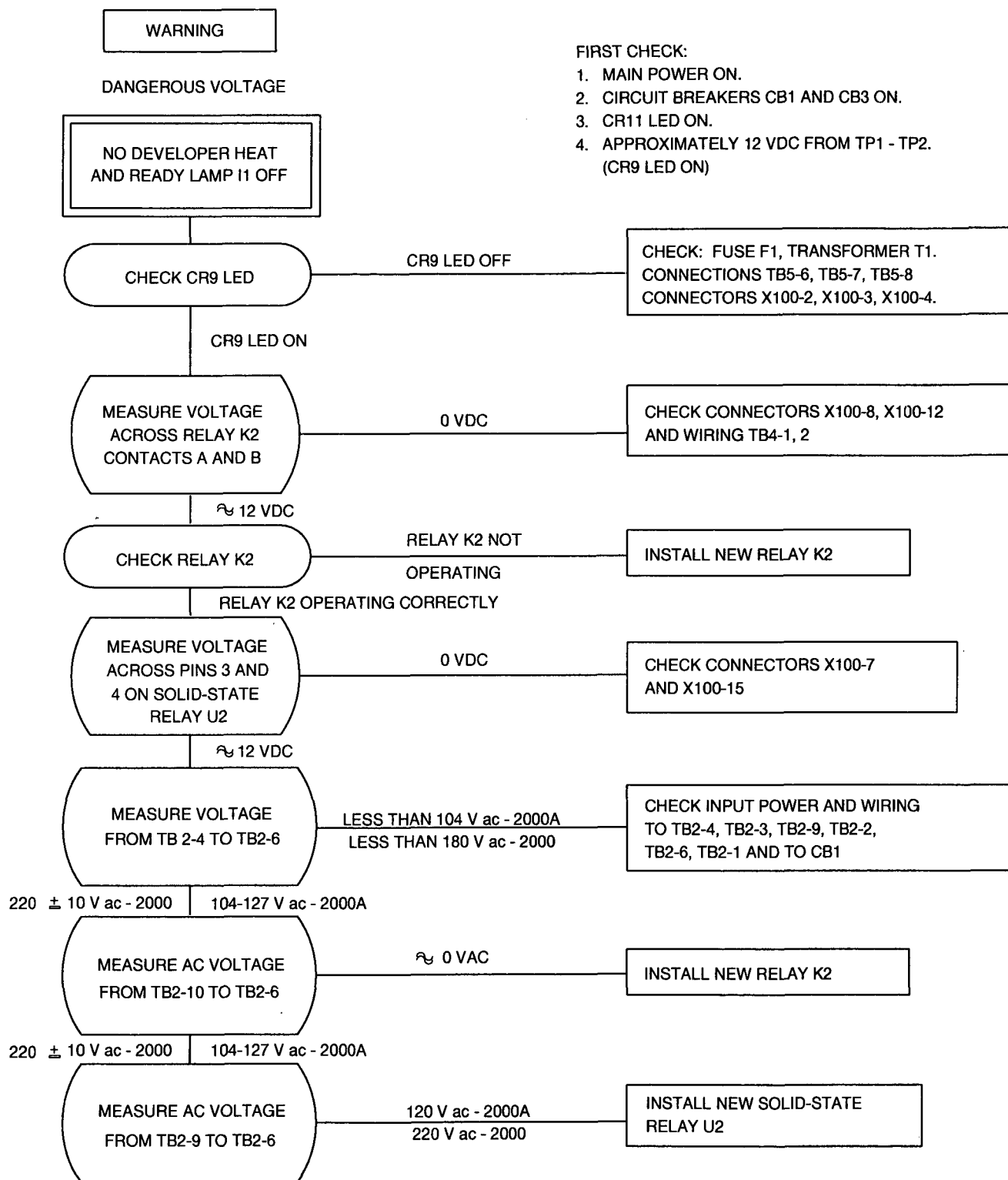
Malfunction of the BLOWER MOTOR in a 2000 or 2000A PROCESSOR



NOTE:
ALL VOLTAGES ARE APPROXIMATE ONLY.
DIAGNOSTIC FLOWCHART FOR THE DRYER
TEMPERATURE CONTROL, AND MAIN DRIVE

H172_9000DC

Malfunction of the Developer Temperature Control System and the TEMPERATURE READY LIGHT in a 2000 or 2000A PROCESSOR, 1 of 2



NOTE: ALL VOLTAGES ARE APPROXIMATE ONLY.
DIAGNOSTIC FLOWCHART FOR THE DEVELOPER
TEMPERATURE CONTROL.

H172_9004EC

Malfunction of the Developer Temperature Control System and the TEMPERATURE READY LIGHT in a 2000 or 2000A PROCESSOR, 2 of 2

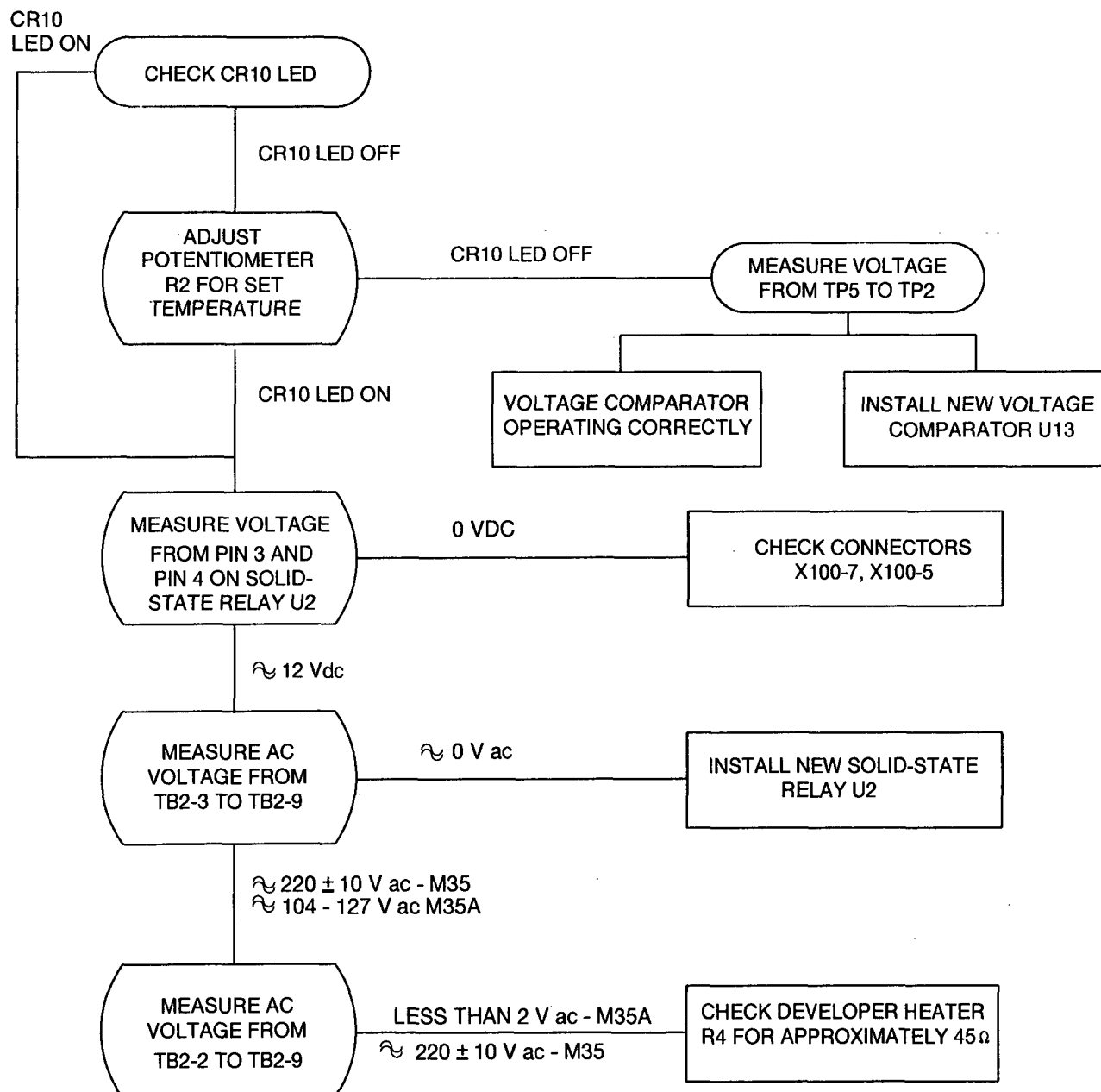
WARNING

DANGEROUS VOLTAGE

NO DEVELOPER HEAT
AND READY LAMP I1 ON

FIRST, CHECK:

1. MAIN POWER ON.
2. CIRCUIT BREAKERS CB1 AND CB2 ON.
3. CR11 LED ON.
4. APPROXIMATELY 12 VDC FROM TP1-TP2.
(CR9 LED ON)



NOTE: ALL VOLTAGES ARE APPROXIMATE ONLY.

H172_9003EC

Publication History

Print Date	Pub No.	ECO No.	Affected Pages	Filename	Notes
Jan. 99	7C8773	N/A	All	di3554_1_07jan99.fm	First Printing

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EASTMAN KODAK COMPANY • ROCHESTER, N.Y. 14650

Health Imaging

