

KODAK RP X-OMAT Processor Model M7B



HEALTH SCIENCES

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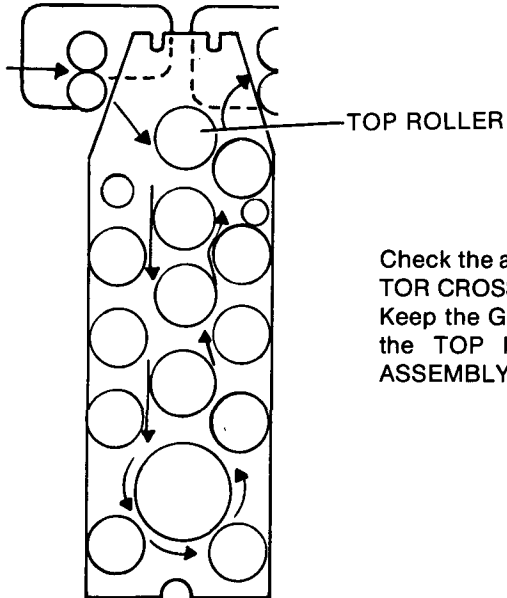
SECTION 1 SPECIFICATIONS

See Section 4 for all specifications.

SECTION 2 SERVICING PROCEDURES

ADJUSTMENTS

DETECTOR CROSSOVER ASSEMBLY GUIDE SHOE



NOTE

Check the adjustment when you install the DETECTOR CROSSOVER ASSEMBLY in the PROCESSOR. Keep the GUIDE SHOE ASSEMBLY from touching the TOP ROLLER in the DEVELOPER RACK ASSEMBLY.

FIGURE 2-1

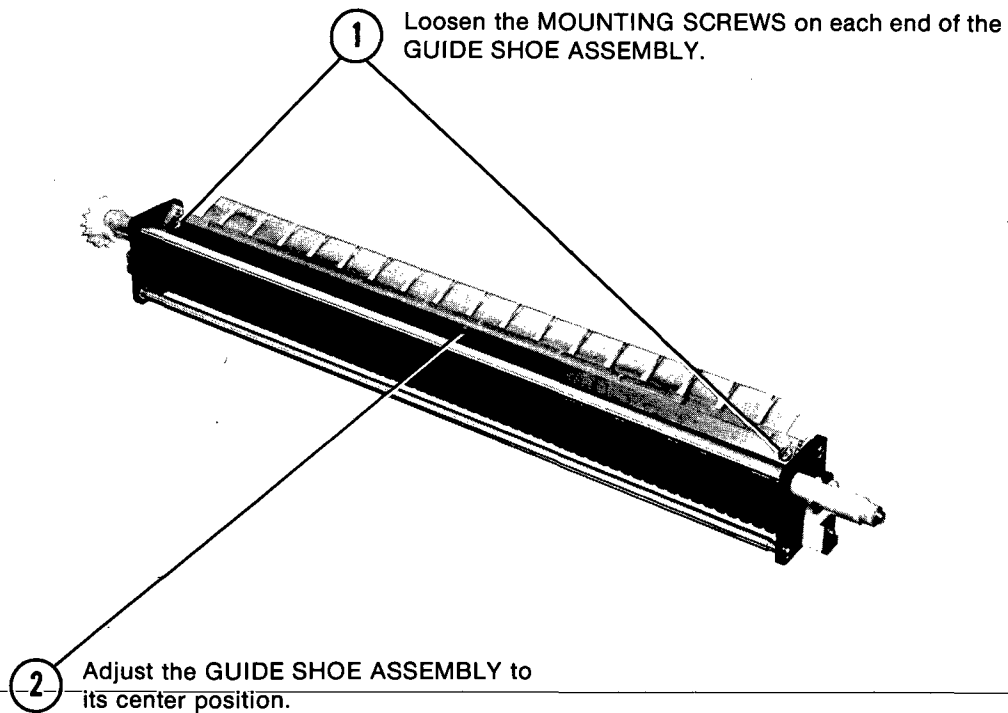


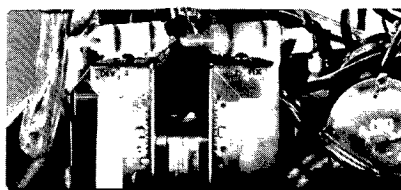
FIGURE 2-2

DETECTOR CROSSOVER ASSEMBLY

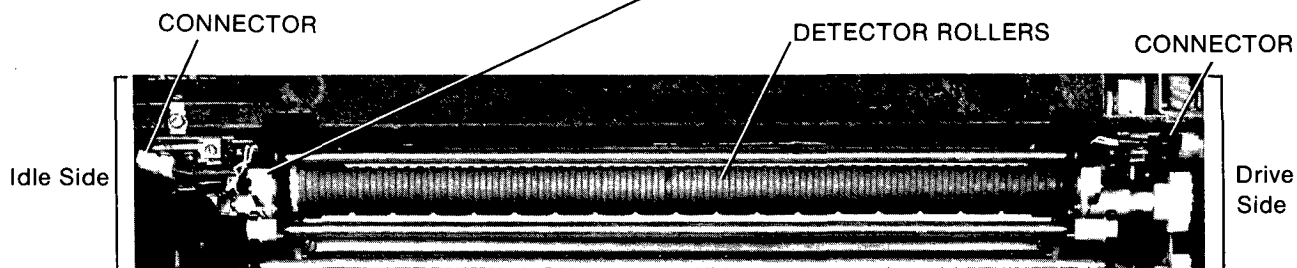
Adjustment of the SWITCHES

Use the following steps to check each DETECTOR SWITCH:

- 1 Connect the main power. The REPLENISH PUMP does not operate.
- 2 Feed a 13 x 18 cm (5 x 7-inch) film on the idle side of the PROCESSOR. The REPLENISH PUMP operates while the film is between the DETECTOR ROLLERS. Do this procedure again for the other side.



REPLENISH PUMP



- 4 Align the MAGNET with the SWITCH. If adjustment is necessary:
 - a. Loosen the SCREWS.
 - b. Move the SWITCH PLATE.
 - c. Tighten the SCREWS.

- 5 Loosen the 2 SCREWS. Move the SWITCH down until the PUMPS operate. Tighten the 2 SCREWS.

- 9 Do Step 2 again.

- 10 Do the procedure again for the other SWITCH if necessary.

NOTE

To adjust the switch on the idle side, disconnect the CONNECTOR from the drive side of the CROSS-OVER ASSEMBLY.

To adjust the SWITCH on the drive side, disconnect the CONNECTOR from the idle side of the CROSS-OVER ASSEMBLY.

- 3 Clearance from the MAGNET to the SWITCH has to be 1.6-3.2 mm (1/16-1/8 inch). If adjustment is necessary, do the following:
 - 3a. Loosen the SCREW.
 - 3b. Move the MAGNET.
 - 3c. Tighten the SCREW.

3a. Loosen the SCREW.

3b. Move the MAGNET.

3c. Tighten the SCREW.

SWITCH PLATE

- 6 Loosen the 2 SCREWS.

ADJUSTING SCREW

- 8 Tighten the SCREWS.

- 7 Move the SWITCH up by rotating the ADJUSTING SCREW clockwise until the REPLENISH PUMP stops. Turn the ADJUSTING SCREW an additional 1/2 rotation.

FIGURE 2-3

TURNAROUND ASSEMBLIES

GUIDE SHOES

- ③ Provide the maximum clearance HERE.

ROLLER

- ① Make the clearance on the downward path 0.114-0.165 cm (.045-.065 inch)

Downward Path

Upward Path

- ② Adjust the bottom GUIDE SHOE ASSEMBLY as in step 1.

FIGURE 2-4

MAIN DRIVE CHAIN

WARNING

Dangerous Voltage

- ① Disconnect the main power.

- ⑤ Lubricate the DRIVE CHAIN.

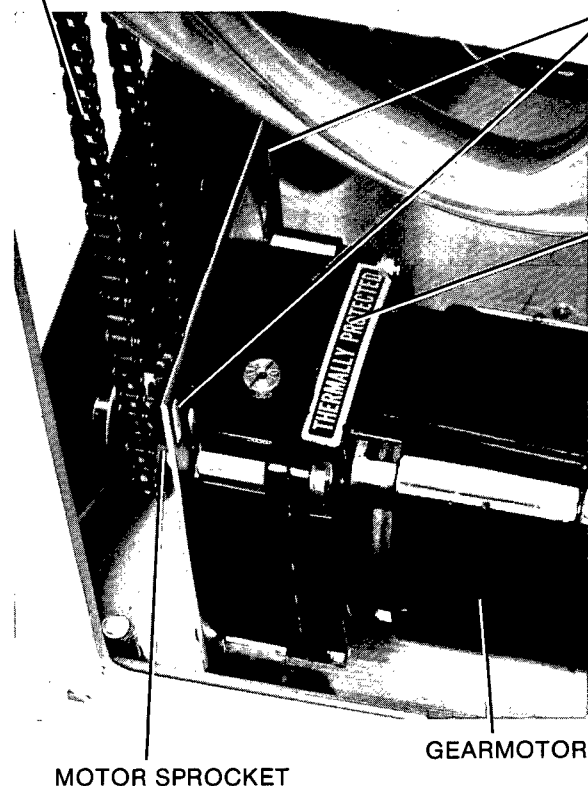
- ② Loosen the 4 MOUNTING SCREWS.

NOTE

Check to see that the CHAIN does not touch other parts when operating.

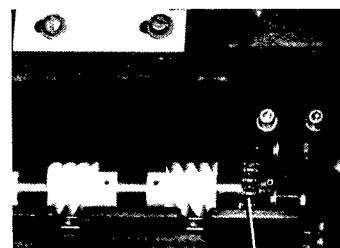
- ③ Move the GEARMOTOR. Stop when the DRIVE CHAIN is tight. Tighten the CHAIN and the four MOUNTING SCREWS.

- ④ Check the alignment of the MOTOR SPROCKET with the MAIN DRIVE SPROCKET on the MAIN DRIVE SHAFT.



MOTOR SPROCKET

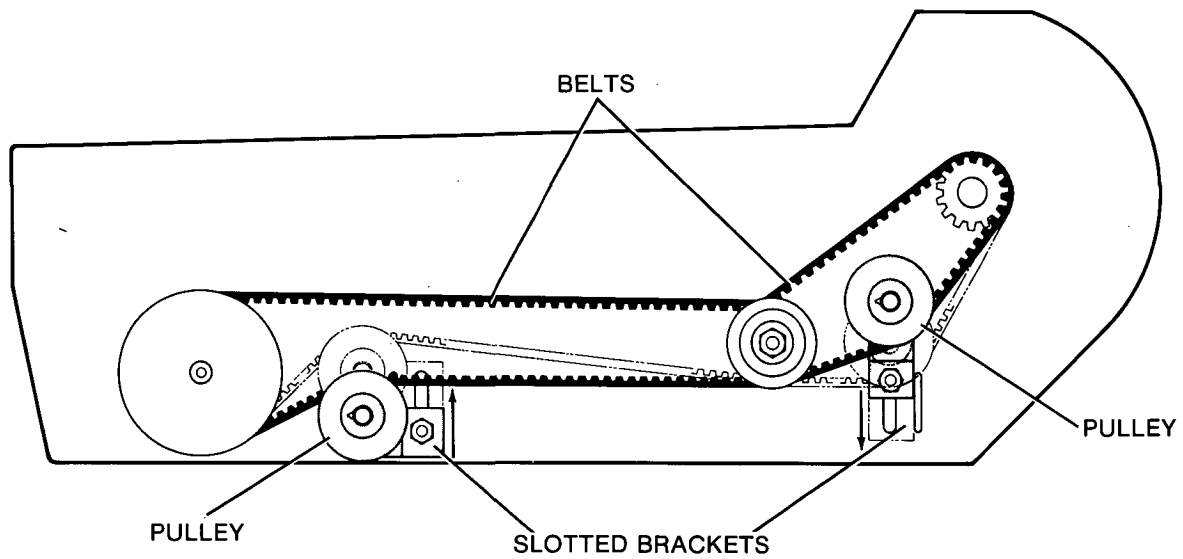
GEARMOTOR



MAIN DRIVE SPROCKET

FIGURE 2-5

DRYER DRIVE BELTS



- 1 Move the PULLEYS up or down in the SLOTTED BRACKETS to loosen or tighten the BELTS.

FIGURE 2-6

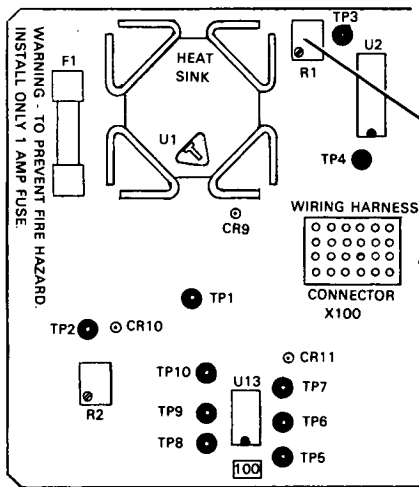
"CLEAR TIME"

WARNING

Dangerous Voltage

CAUTION

To prevent damage to the 100 CIRCUIT BOARD, use an insulated screwdriver.



100 CIRCUIT BOARD

To adjust the clear time from 3 to 4 minutes, adjust POTENTIOMETER R1.

decreases
time



increases
time

FIGURE 2-7

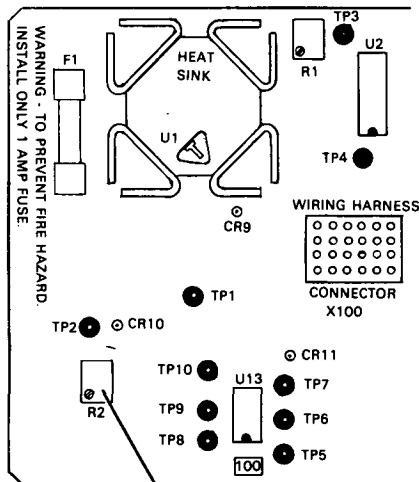
Developer Temperature

WARNING

Dangerous Voltage

CAUTION

To prevent damage to the 100 CIRCUIT BOARD, use an insulated screwdriver.



POTENTIOMETER R2

To adjust the temperature of the developer, adjust POTENTIOMETER R2.

decreases
temperature



increases
temperature

(A) IMPORTANT

The DEVELOPER RECIRCULATION SYSTEM will not operate with water unless it has sufficient electrolytic properties to conduct a small current. Water may or may not be a conductor depending on the mineral content. If necessary, add 1 cup of developer to the water to achieve proper operation.

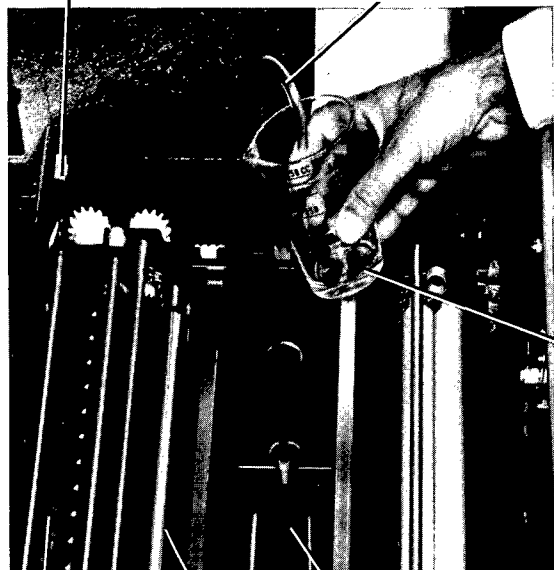
FIGURE 2-8

(R) Checking the Replenishment Rates

- ① Remove the DETECTOR CROSSOVER ASSEMBLY and the DEVELOPER RACK ASSEMBLY.

DETECTOR SWITCH
ASSEMBLY (2)

CHECK TUBE



DETECTOR
CROSSOVER
ASSEMBLY

FIXER TANK

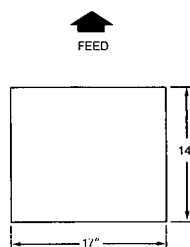
DEVELOPER RACK ASSEMBLY

- ⑧ Clean the CHECK TUBE before you insert it into the FIXER TANK.

- ② Insert the CHECK TUBE into the hole in the TANK. Do the DEVELOPER TANK first.
- ③ Install the DETECTOR CROSSOVER ASSEMBLY.
- ④ Actuate the DETECTOR ASSEMBLY. Allow the solution to flow into the CHECK TUBE, releasing the air.
- ⑤ Release the DETECTOR SWITCH ASSEMBLY.
- ⑥ To measure the replenishment rate,* hold a graduate under the CHECK TUBE; actuate the DETECTOR ASSEMBLY for 20 seconds or feed a 14 x 17-inch film.

NOTE

The solution flows for 4 seconds after the trailing edge of the film leaves the DETECTOR ROLLERS.



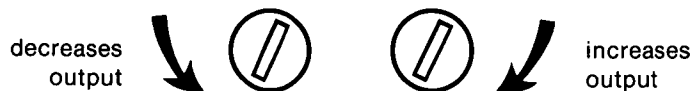
- ⑦ Repeat Step 6 to check the flow rate again before making any necessary adjustments.

*See the manufacturer's recommendations for the correct flow rates.

FIGURE 2-9

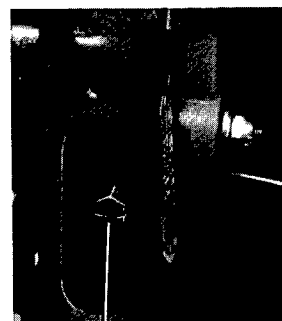
Adjusting the Replenishment Rates

Rotate the ADJUSTING SCREW:



CAUTION

Do not adjust the LOCKNUT on the other end of the ADJUSTING SCREW.



ADJUSTING SCREW

FIGURE 2-10

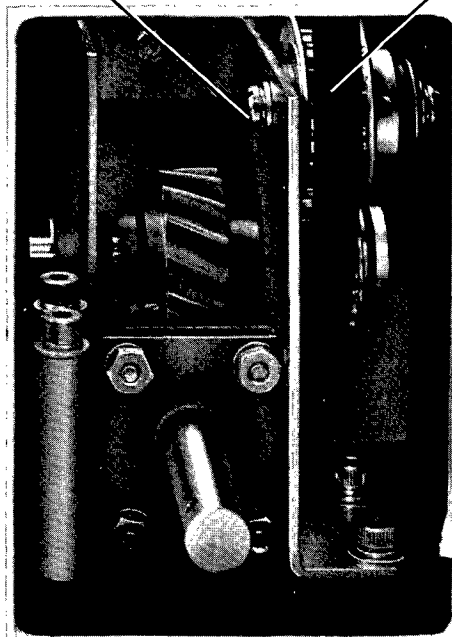
SECTION 2 SERVICING PROCEDURES

REPLACEMENTS

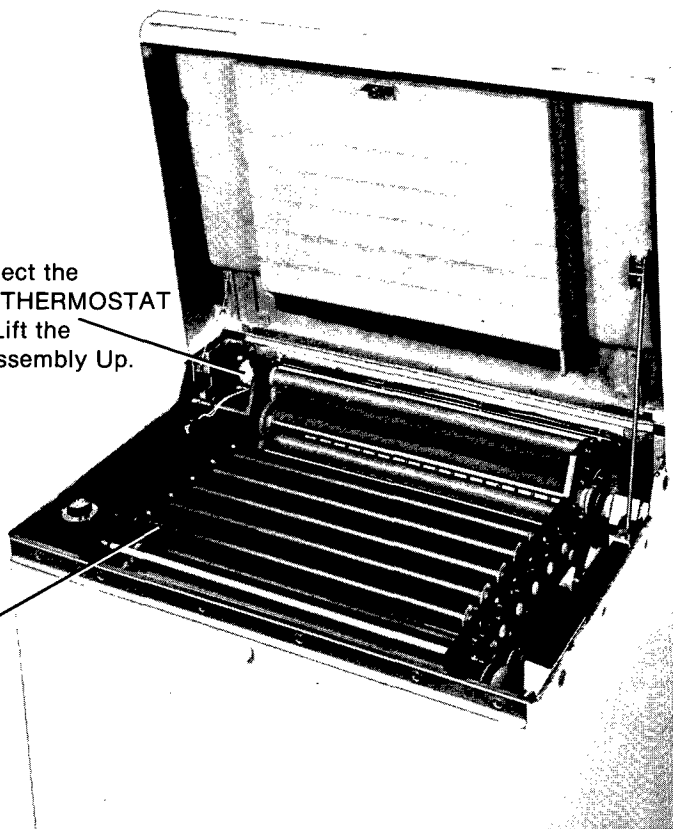
DRYER ASSEMBLY

1 Loosen the SCREW and remove the IDLER PULLEY.

2 Remove the DRYER DRIVE BELT from the bottom PULLEY.



3 Disconnect the DRYER THERMOSTAT PLUG. Lift the Dryer Assembly Up.



6 Remove the DRYER ASSEMBLY from the PROCESSOR.

CAUTION

Manually hold the DRYER ASSEMBLY up before you do Step 4.

4 Remove the NUT.

5 Remove the DRYER COUNTER-BALANCE SPRING. Check the position of the SPRING in the hole.

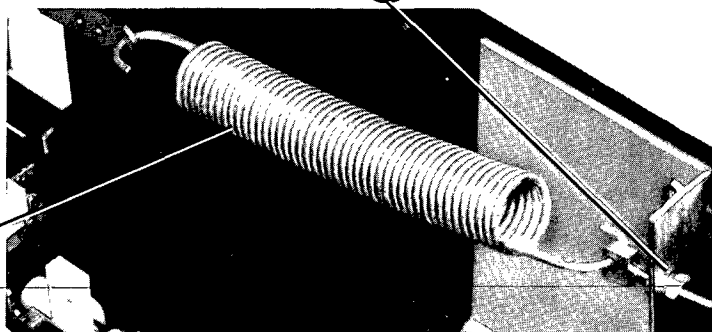
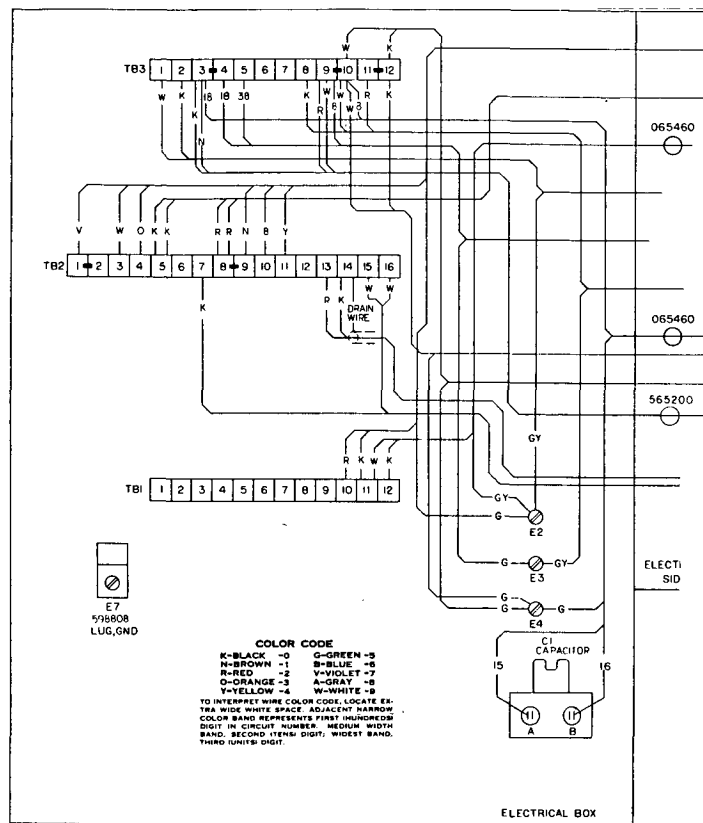


FIGURE 2-11

DRYER BLOWER ASSEMBLY

WARNING

Dangerous Voltage



1 Disconnect the main power.

2 Disconnect the wires to external CAPACITOR C1.

3 Disconnect the wires from the DRYER BLOWER ASSEMBLY at TB3-3 and TB-9 or 10.

6 Remove the DRYER BLOWER ASSEMBLY.

5 Remove the 3 BRACKET MOUNTING SCREWS.

4 Disconnect the STRAIN RELIEF.

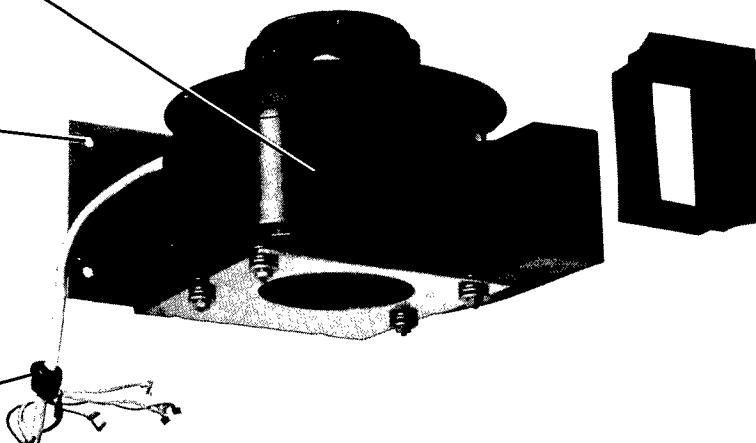
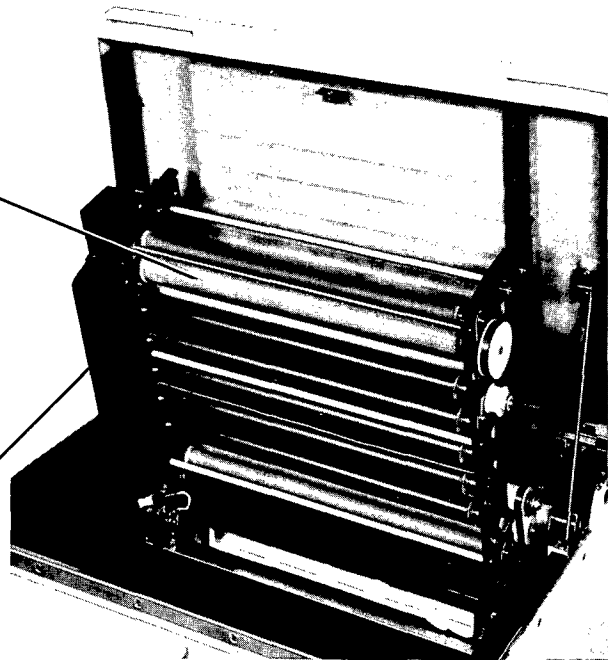


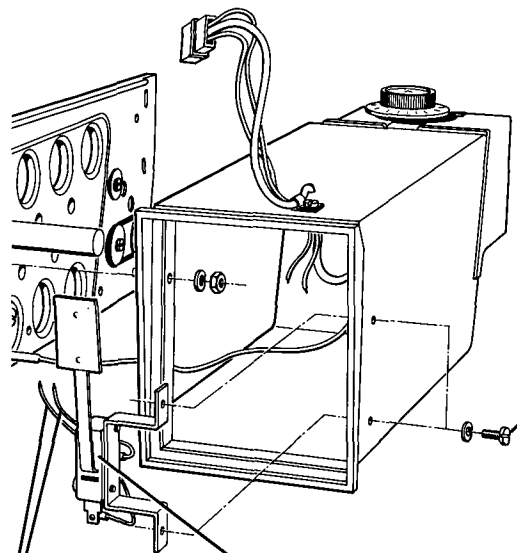
FIGURE 2-12

AIR VANE SWITCH ASSEMBLY

- 1 Lift the DRYER ASSEMBLY up.



AIR VANE SWITCH ASSEMBLY



- 2 Remove the BRACKET SCREWS.

- 3 Lift the SWITCH out.

- 4 Disconnect the WIRES.

FIGURE 2-13

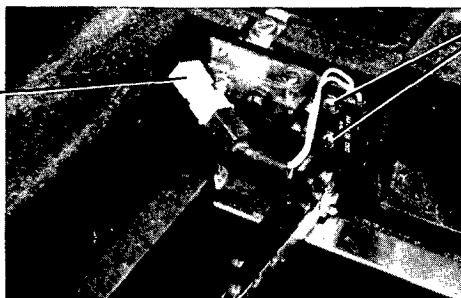
DETECTOR CROSSOVER ASSEMBLY
DETECTOR SWITCH ASSEMBLIES (2)

WARNING

Dangerous Voltage

① Disconnect the main power.

③ Disconnect the CONNECTOR.



② Remove the following parts:
 SCREWS
 LOCK WASHERS and
 WASHERS

FIGURE 2-14

GUIDE SHOE

The longer TIPS have to be in the direction that the film moves.

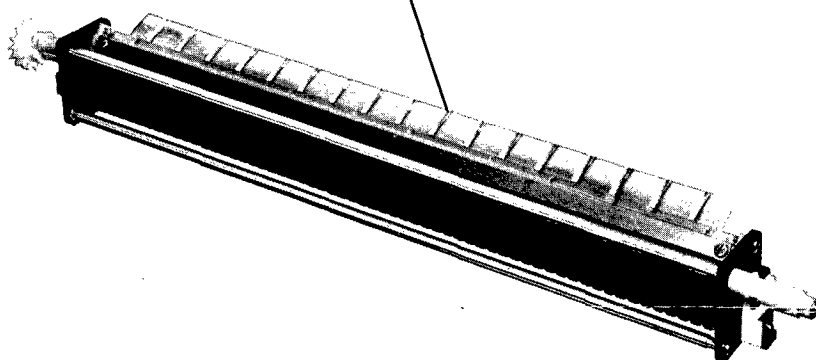


FIGURE 2-15

DETECTOR CROSSOVER

Remove the following parts:

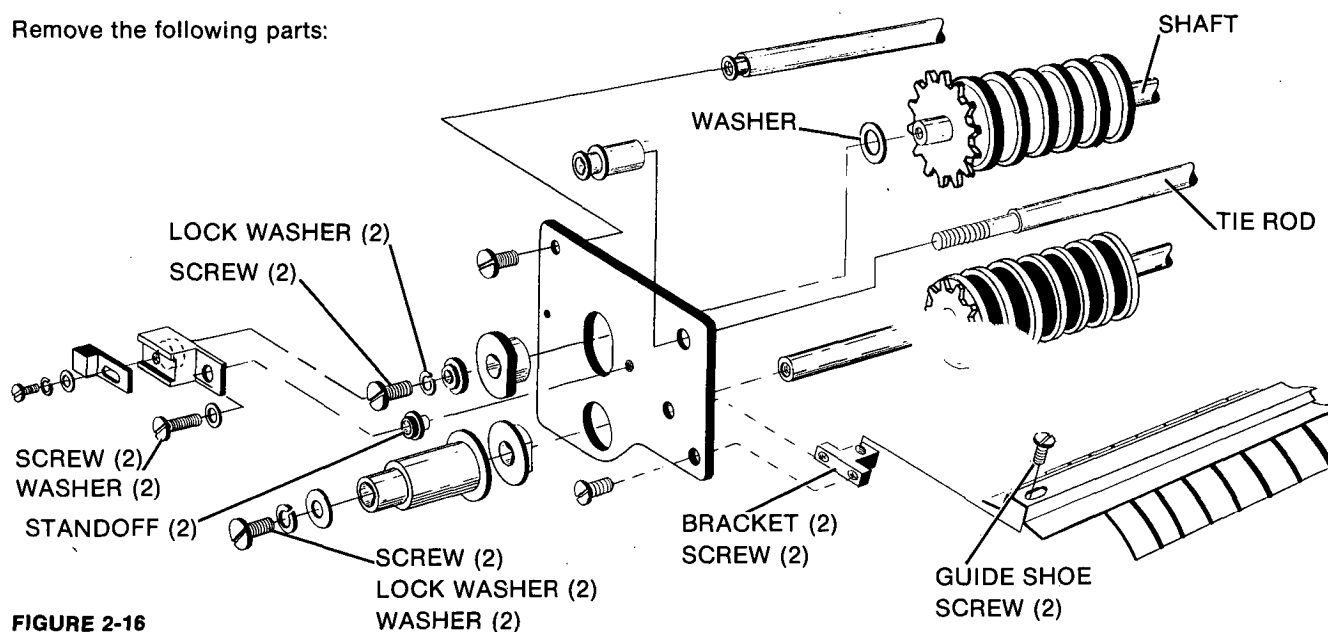
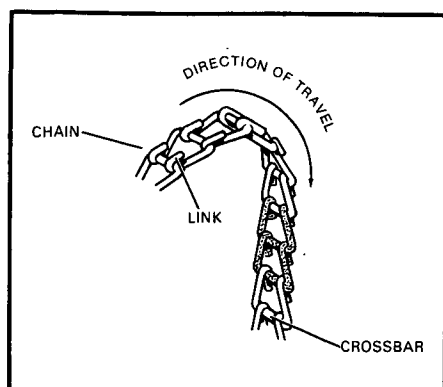


FIGURE 2-16

RACK ASSEMBLIES

RACK CHAINS



The CROSSBAR of each LINK must be in the direction of film travel. The splicing LINK must be the same as the other LINKS.

FIGURE 2-17

- ① Remove the TOP ROLLER and the SHAFT.
- ② Hold the CHAIN by inserting a PIN PUNCH between the 2 LINKS.
- ③ Open the LINKS with a SMALL-BLADE SCREW-DRIVER or PLIERS.
- ④ Connect the end of the new CHAIN to the old CHAIN, and pull it through the RACK ASSEMBLY.

CAUTION

Check that the new CHAIN is the same length as the existing CHAIN.

- ⑤ Close the CHAIN LINK.

RESILIENT ROLLER

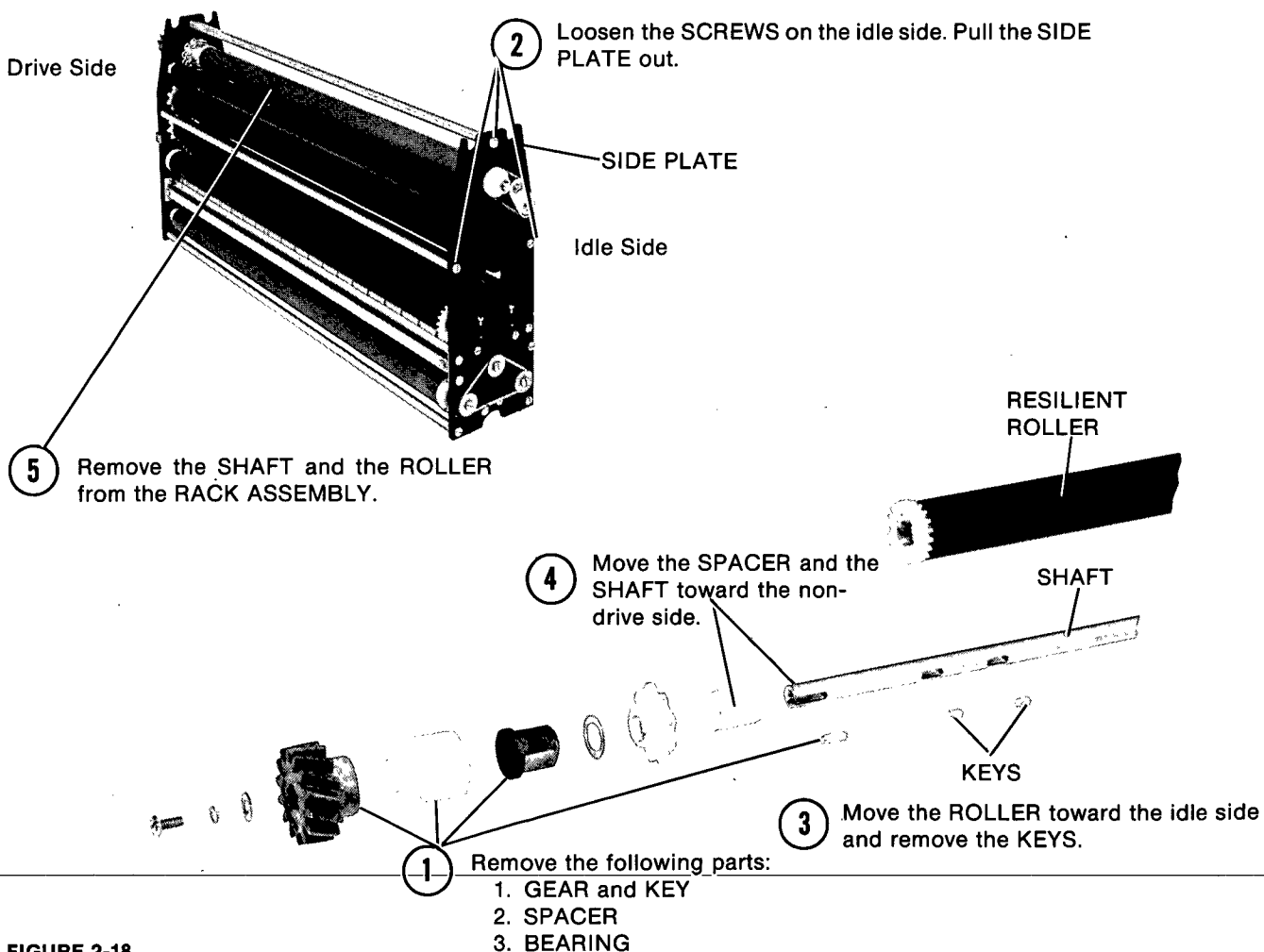


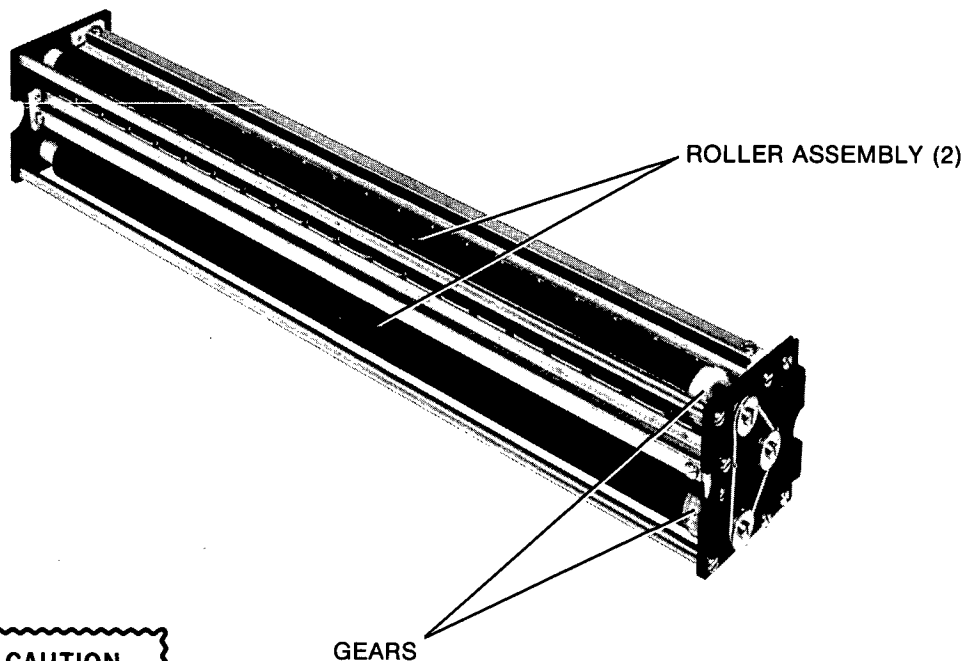
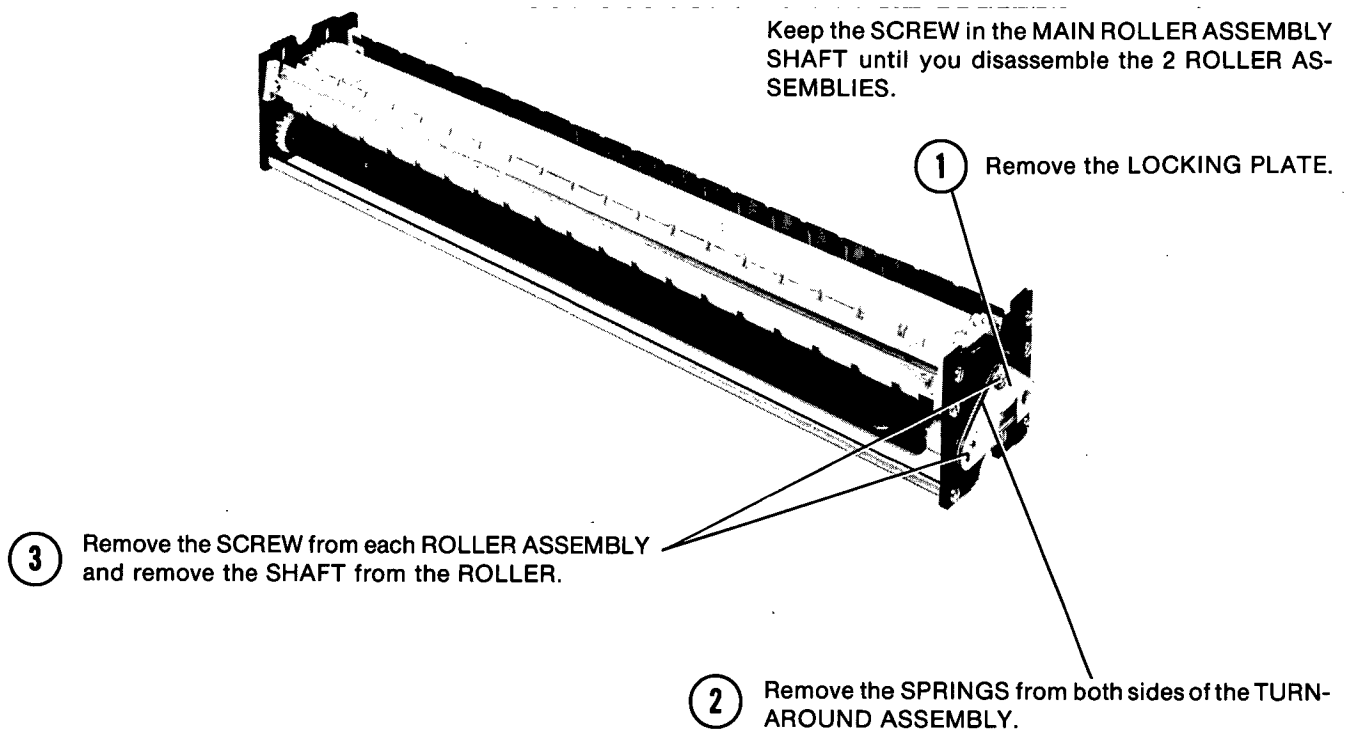
FIGURE 2-18

TURNAROUND ASSEMBLIES

ROLLER ASSEMBLY (2)

NOTE

Keep the SCREW in the MAIN ROLLER ASSEMBLY SHAFT until you disassemble the 2 ROLLER ASSEMBLIES.

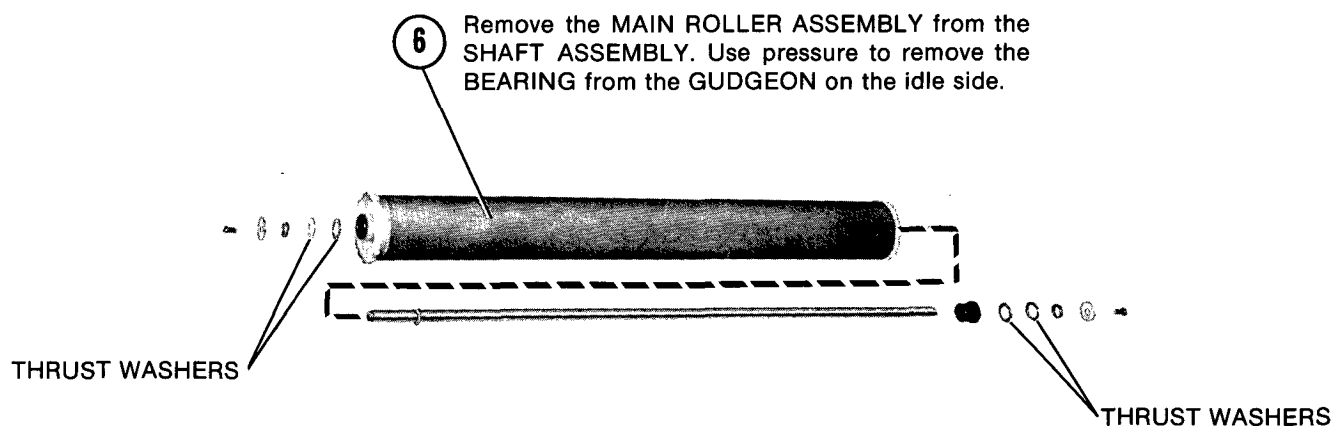
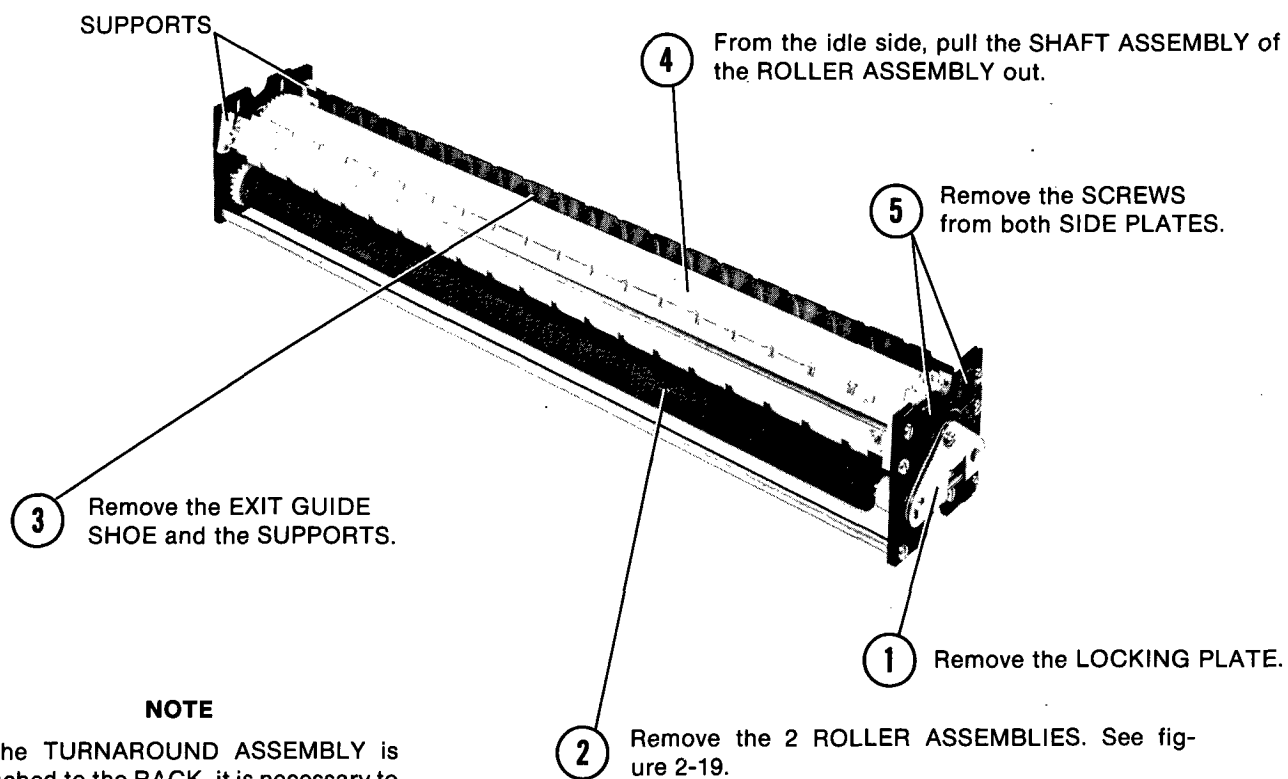


CAUTION

When installing the 2 ROLLER ASSEMBLIES check that all GEARS engage in the TURNAROUND ASSEMBLIES.

FIGURE 2-19

MAIN ROLLER ASSEMBLY



NOTE

Before you install the MAIN ROLLER ASSEMBLY, check that the THRUST WASHERS are on the SHAFT ASSEMBLY. Tighten or loosen the CHAIN if necessary.

FIGURE 2-20

MAIN DRIVE AND DRYER DRIVE GEARMOTOR

NOTE

The GEARMOTOR has an AUTOMATIC RESET
THERMAL PROTECTOR.

WARNING

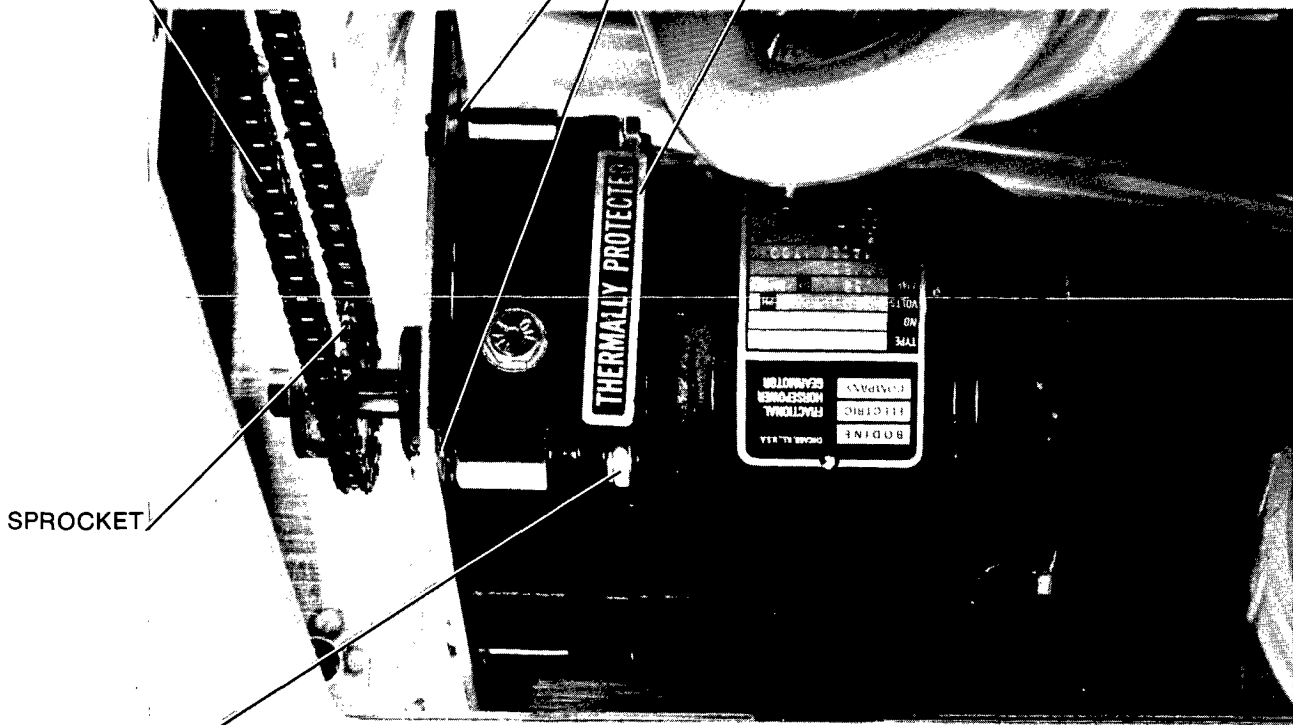
Dangerous Voltage

① Disconnect the main power.

② Engage the DRIVE CHAIN
and the SPROCKET.

Tighten the 4 SCREWS to fasten the GEARMOTOR
into position.

AUTOMATIC RESET THERMAL PROTECTOR



SPROCKET

③ Install the 4 MOUNTING SCREWS and adjust the
DRIVE CHAIN and the SPROCKET.

④ See the Wiring Diagram in Section 7 for electrical connections.

FIGURE 2-21

BEARINGS of the MAIN DRIVE SHAFT

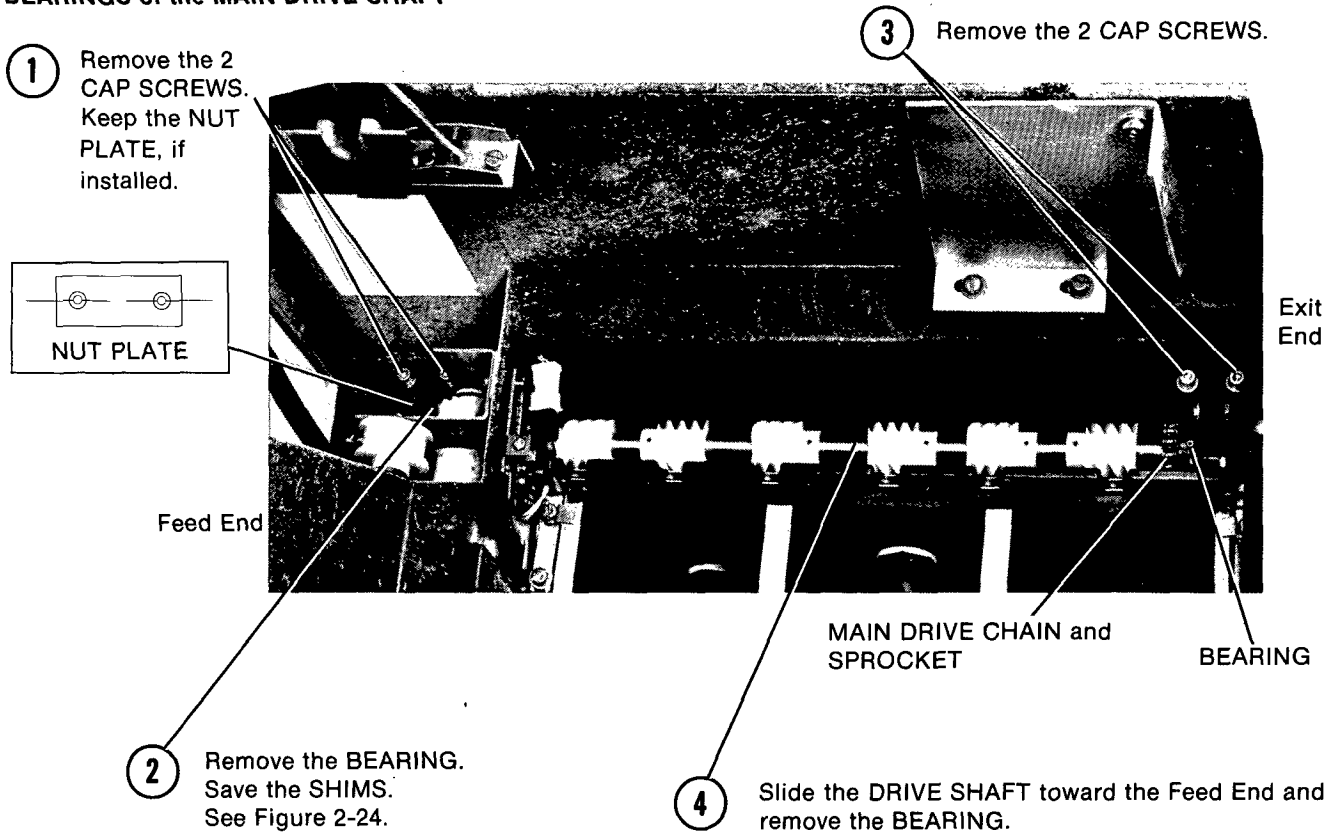


FIGURE 2-22

MAIN DRIVE SHAFT and WORM GEARS

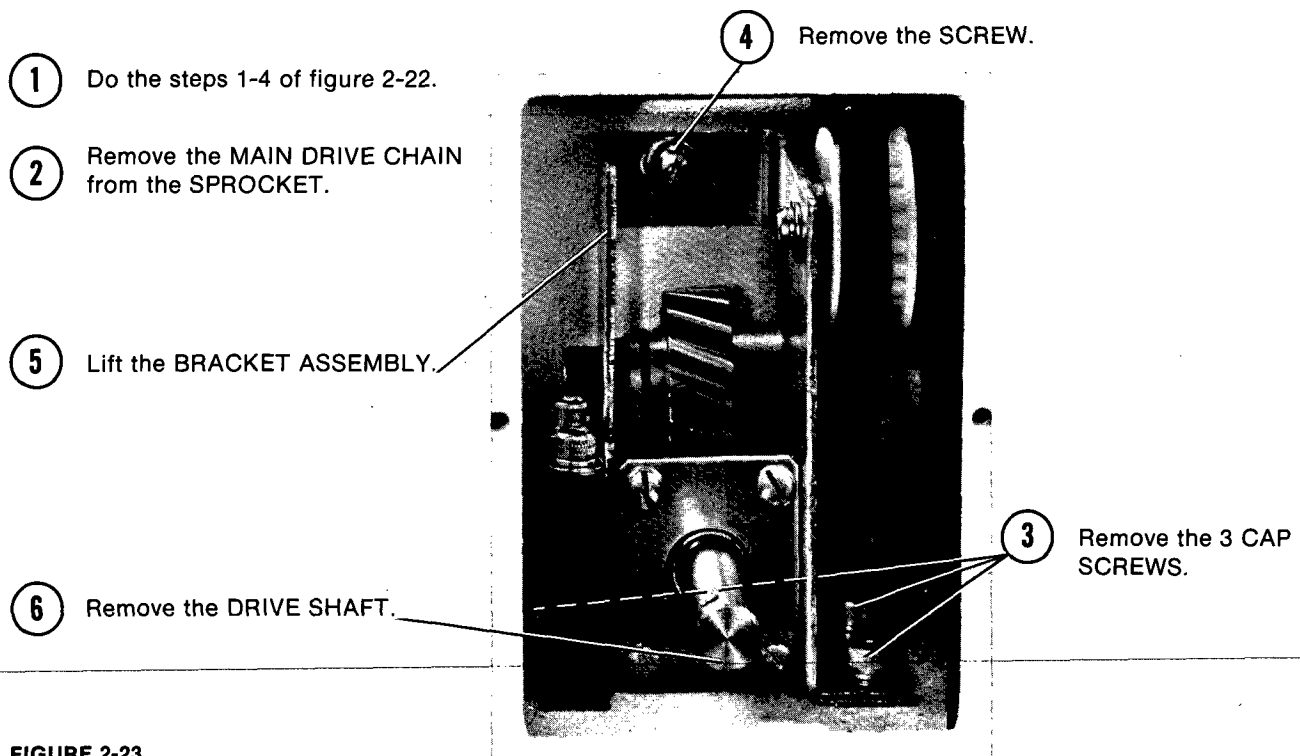


FIGURE 2-23

DRYER DRIVE GEAR or BEARING

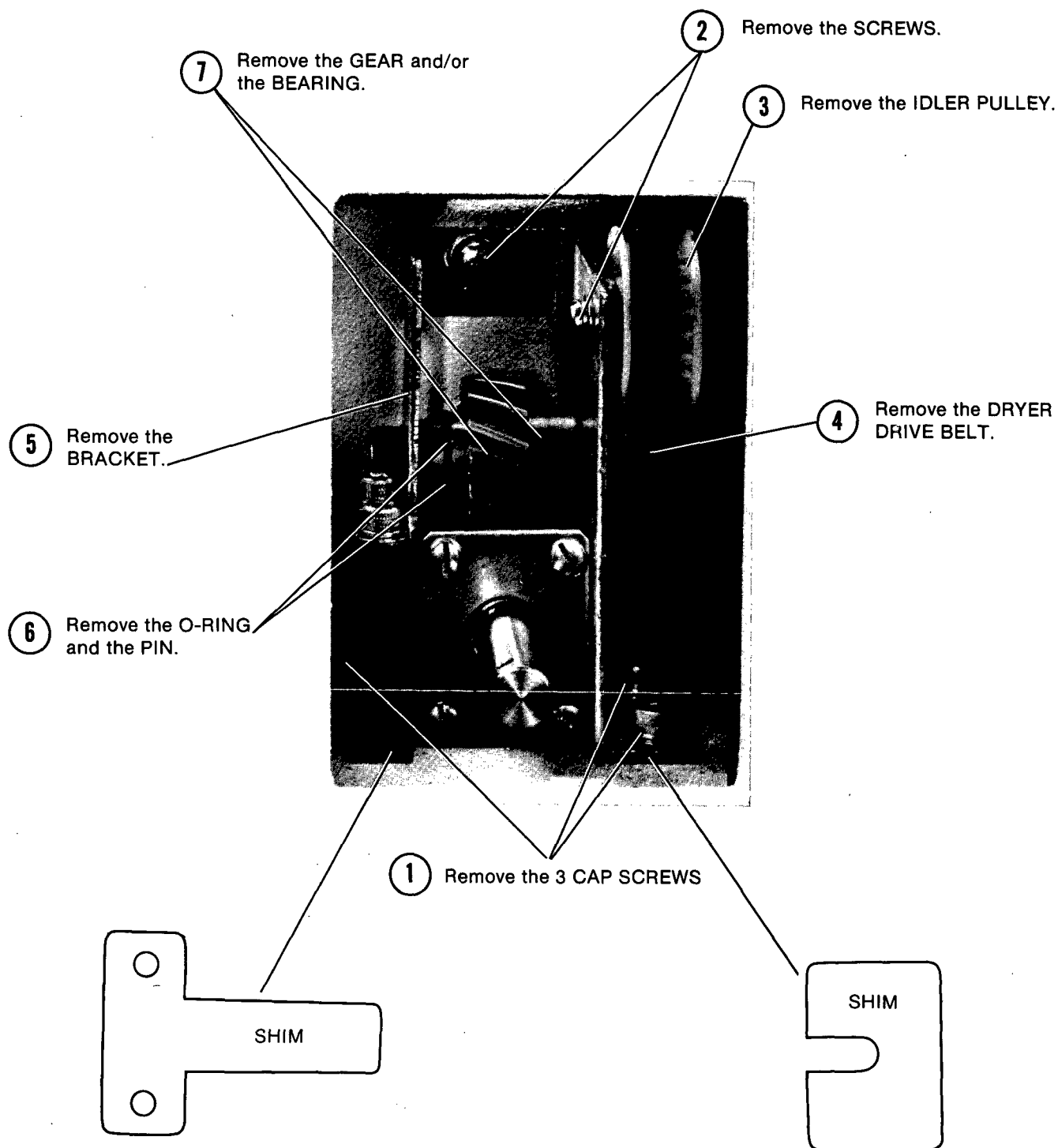


FIGURE 2-24

DEVELOPER AND FIXER RECIRCULATION

DEVELOPER and FIXER TANKS - HEAT EXCHANGERS

WARNING

Dangerous Voltage

- ① Disconnect the main power.
- ② Disconnect the water supply.

RACK SUPPORT BAR



- ③ Drain the 3 TANKS.

- ④ Remove the SCREWS and the RACK SUPPORT BARS. Keep the HOLD-DOWN CLIPS. Remove the gasket material and TANK CLIPS.

NOTE

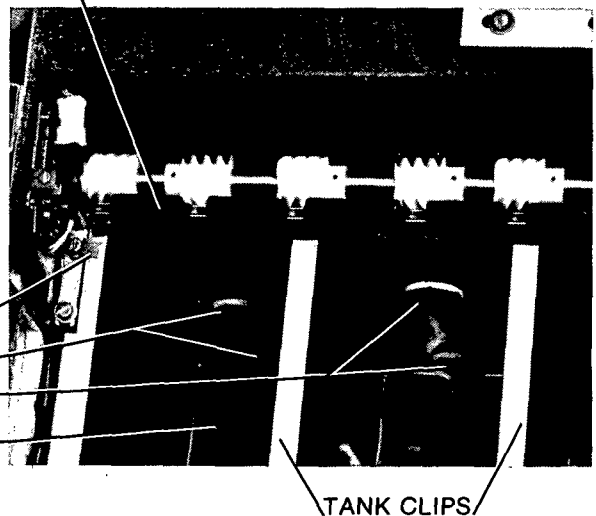
Check that all HOLD-DOWN CLIPS are installed in their original positions.

- ⑤ Remove all external tubing from the TANKS.

HOLD-DOWN CLIPS

- ⑥ Remove the 4 SIDE FITTINGS.

- ⑥ Lift out the TANK by tilting the idle side first.



TANK CLIPS

- ⑧ Install the RACK SUPPORT BARS with the RACK ASSEMBLIES in position. Check that the MAIN DRIVE GEAR from each RACK ASSEMBLY is in position in the center of the WORMS. Move the RACK SUPPORT BAR on the drive side against the SPACER of the TOP ROLLER. Move the RACK SUPPORT BAR on the non-drive side so that there is a 2.4 mm (3/32-inch) clearance between the RACK SUPPORT BAR and the SPACER.

- ⑦ Remove the HEAT EXCHANGER by removing fittings on the underside of the tanks.

CAUTION

When you install a DEVELOPER TANK, install the largest FITTING in the bottom recirculation hole.

FIGURE 2-25

RECIRCULATION PUMPS

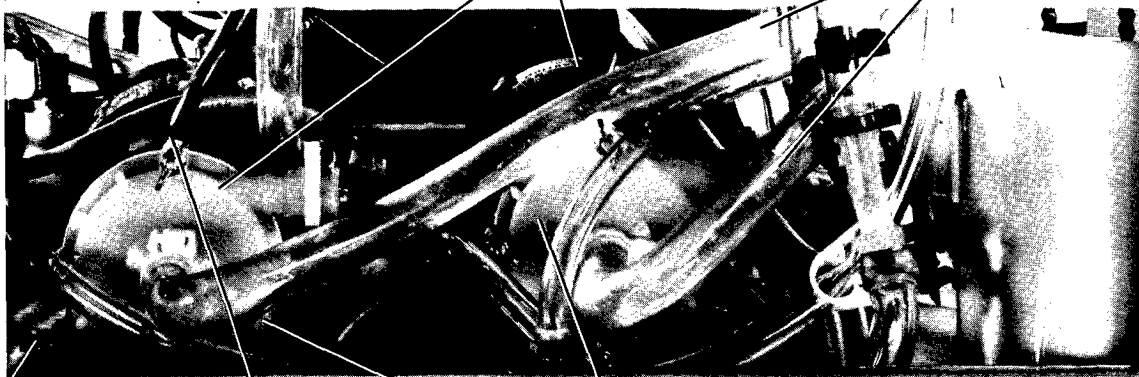
WARNING

Dangerous Voltage

- 1 Disconnect the main power.

RECIRCULATION
PUMP (2)

- 2 Disconnect the
TUBING.



- 4 Loosen the 2 MOUNTING
SCREWS on each PUMP.

- 5 Remove the PUMPS from
the PROCESSOR.

- 3 Remove the STRAIN RELIEF
and LEADS.

FIGURE 2-26

REPLENISHER PUMP ASSEMBLY

WARNING

Dangerous Voltage

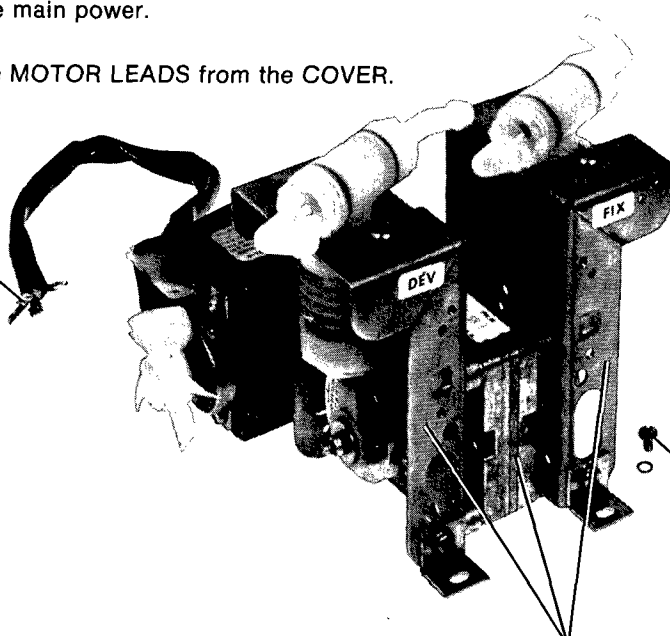
- 1 Disconnect the main power.
 - 2 Disconnect the MOTOR LEADS from the COVER.
- 
- The diagram shows a mechanical assembly with a motor and various components. A hand is shown disconnecting the motor leads from a cover. The assembly is mounted on a base with screws. A label 'DEV' is visible on the side of the assembly, and a label 'FIX' is visible on the base.
- 3 Remove the SCREWS.
 - 4 Remove the PUMP ASSEMBLY from the exit end of the PROCESSOR.

FIGURE 2-27

FLOW CONTROL VALVE

WARNING

Dangerous Voltage

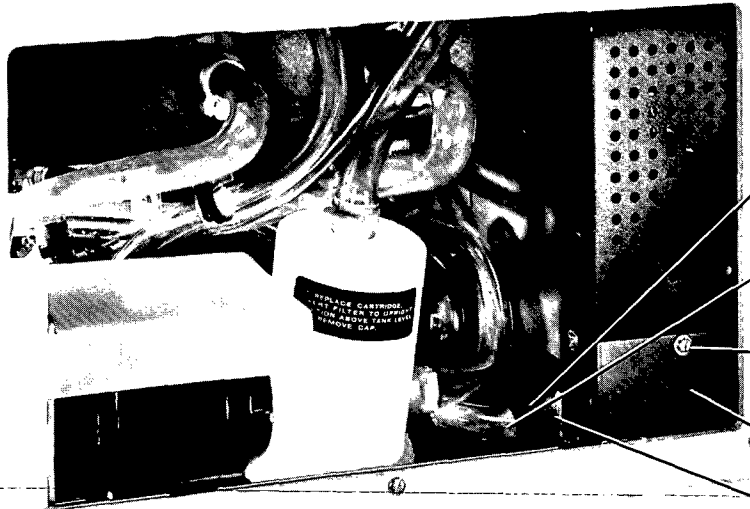
- 1 Disconnect the main power.
 - 2 Disconnect the water supply.
- 
- The diagram shows a flow control valve assembly with various components. A hand is shown draining the wash tank. The assembly is mounted on a base with screws. A label 'COVER' is visible on the side of the assembly.
- 3 Drain the WASH TANK.
 - 4 Remove the CLAMP.
 - 5 Remove the TUBE.
 - 6 Remove the existing SCREWS and COVER.
 - 7 Remove the VALVE and the BRACKET ASSEMBLY.

FIGURE 2-28

DEVELOPER FILTER ASSEMBLY

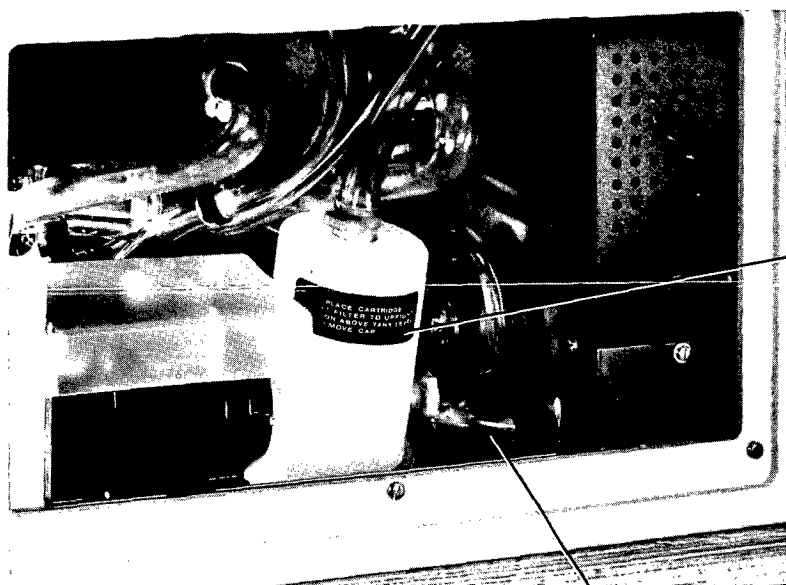
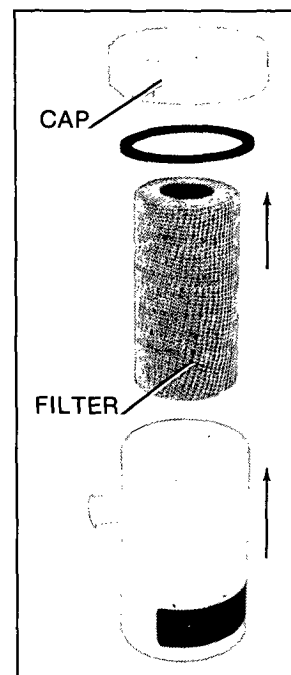
WARNING

Dangerous Voltage

- 1 Disconnect the main power.

NOTE

Soak the FILTER in 49°C (120°F) water for ½ minute before installing it.



TUBING

- 2 Lift the FILTER ASSEMBLY out of the PROCESSOR with the CAP up.

CAUTION

The FILTER ASSEMBLY has to be above the solution level in the TANKS. Keep the TUBING free from kinks.

FIGURE 2-29

SECTION 3 DIAGNOSTIC PROCEDURES

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SECTION 3 DIAGNOSTIC PROCEDURES

NOTE

Always check the MECHANICAL CHECKLIST first. If it is necessary to have additional diagnostic procedures, go to the ELECTRICAL CHECKLIST or the A, B, or C diagrams.

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<i>No Blower Motor, No Drive Motor, No Dryer Heater, No Water Saver Solenoids condition</i>	•Diagnostic Flowchart 3-2	3-10
<i>No Dryer Heat condition</i>	•Diagnostic Flowchart 3-3	3-11
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MECHANICAL CHECKLIST

CONDITION

- 1 - Transport Failure
- 2 - Surface Artifacts
- 3 - Abnormal Film Densities
- 4 - Wet Films
- 5 - Low Solution Levels
- 6 - Overlapping of Films

1	2	3	4	5	6	
●					●	Film Feeding Error
						NOTE: Feed only single thicknesses of film. Feed next film only after film feed signal. If there is no film feed signal, refer situation to qualified personnel.
		●	●			Feed only compatible films.
●					●	Check that the processor circuit breaker is "ON." Check that all racks and crossovers are seated correctly.
●						Adjust the tension of the dryer drive belt, if necessary.
	●					Check the surface of each roller for cleanliness and smoothness, especially in the developer turnaround.
●			●			Check that the dryer air tubes are in the correct position.
	●					Remove any dirt from the slits in the dryer air tubes. Use a bottle brush and rinse with water.
●	●	●	●	●		Check that the processor circuit breaker is "ON." Check the replenishment system for: tubing kinks and operation of the replenisher pump and detector switches.
	●		●			The dryer thermostat setting necessary for good drying changes with ambient conditions and number and types of film fed. Increase the thermostat setting to the LOWEST possible temperature consistent with good drying.
●			●			Wash the air filter with warm soapy water monthly or as necessary.
●	●		●			Check that the top cover is closed or depress the lever of the interlock switch.
	●					Remove deposits of chemicals from the feed tray and detector rollers.
●	●				●	Clean any bacterial growth in the wash tank with a mild solution of chlorine bleach. Use 60 mL (2 fluidounces) of bleach per 3.8 litres (1 gallon) of water. NOTE: Always drain the wash tank when the processor is shut down.
●	●	●	●		●	Remove any improperly mixed, exhausted, or contaminated chemicals. Install a new developer filter if necessary. Check that replenishment rates are correct. Fill the replenisher tanks if necessary. NOTE: Mix the developer replenisher in quantity not to exceed a 2-week supply. Always use a splash guard and rack drip tray when lifting the fixer rack to prevent contaminating the developer. Read the instructions provided with the chemicals. Use the correct amount of developer starting solution.

MECHANICAL CHECKLIST

CONDITION

						1 - Transport Failure
						2 - Surface Artifacts
						3 - Abnormal Film Densities
						4 - Wet Films
						5 - Low Solution Levels
						6 - Overlapping of Films
1	2	3	4	5	6	
•	•					Adjust the guide shoes correctly. NOTE: Most often in the developer turnaround. Adjust the tips of the guide shoes in the exit turnaround as close as possible to the rack roller above them.
•	•					Check that all rollers are in the correct positions and rotating correctly.
•	•					Check that all roller gears, sprockets, and idlers engage correctly.
•	•					Install new rollers if they have broken or worn gudgeons, especially the turnaround rollers.
•	•					Ream or install new bearings if necessary to keep the turnaround rollers rotating correctly.
•	•					Adjust the rack chain so that rollers rotate smoothly and the chain is not too tight. NOTE: Lower the turnaround assembly squarely.
		•				With the processor on, check for movement of the solutions at the surface. Movement indicates proper recirculation. If no movement is observed, check the recirculation system for: tubing kinks, pump operation, developer filter, etc.
				•		Check for solution in the replenisher tanks. Fill if necessary. NOTE: Mix developer replenisher in quantities not to exceed a 2-week supply.
•	•					If wash water is dirty, scrub down the rack and tank thoroughly when the water clears. NOTE: If this condition occurs frequently, consider the use of filters on the incoming water line.
				•		Any dirt behind the check valve poppet seats or distorted poppets prevent proper replenishment. Have qualified personnel clean or install new poppets.
			•			Check that the dryer air exhaust is free from any obstructions and is installed correctly. See the specifications in the Installation Instructions.
•						Check that the processor circuit breaker is "ON." Check the turnaround assembly for correct adjustment. The turnarounds have to be square with the rack.
		•				With a thermometer of known accuracy, check the temperature of the developer. Have qualified personnel make adjustments if necessary. NOTE: The "READY" light must be flickering before feeding film. Check that the incoming supply does not exceed 26.5° C (80° F).
•						Check for missing or improper size orifice in the fixer recirculation line. Install new if necessary.
		•				Check that the correct bulb is in the safelight.
		•				Check the following: The cover is tight on the processor. The gasket is lighttight.

ELECTRICAL CHECKLIST

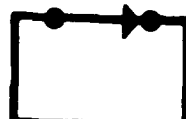
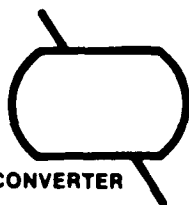
NOTE

Always check the MECHANICAL CHECKLIST first. If additional diagnostic procedures are necessary, see the ELECTRICAL CHECKLIST below.

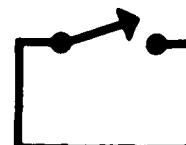
SYSTEM	CONDITION	FIGURE	DESCRIPTION	PAGE
A. Dryer Temperature Control, Main Drive and Water Saver and Water Saver Solenoids	-----	3-1	Sequence of Operation	
		3-5	Circuit Board Flowchart	
		3-6	Schematic Diagram	
	No BLOWER MOTOR No DRIVE MOTOR No WATER SAVER SOLENOIDS	3-2	Diagnostic Flowchart	
B. Replenishment Control System				
	No DRYER HEAT	3-3	Diagnostic Flowchart	
	No BLOWER MOTOR	3-4	Diagnostic Flowchart	
C. Developer Temperature Control System	-----	3-7	Sequence of Operation	
		3-10	Circuit Board Flowchart	
		3-11	Schematic Diagram	
	REPLENISHER PUMP Not Operating	3-8	Diagnostic Flowchart	
D. Processor Complete				
	SAFELIGHT On No REPLENISHMENT	3-9	Diagnostic Flowchart	
	-----	3-12	Sequence of Operation	
		3-16	Circuit Board Flowchart	
		3-17	Schematic Diagram	
	No DEVELOPER HEAT AND READY LAMP I3 Off	3-13	Diagnostic Flowchart	
	No DEVELOPER HEAT AND READY LAMP I3 On	3-14	Diagnostic Flowchart	
	DEVELOPER HEATER On ALL THE TIME AND READY LAMP I3 On	3-15	Diagnostic Flowchart	
D. Processor Complete	-----	3-18	Sequence of Operation	



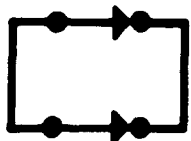
ELECTRICAL TO MECHANICAL CONVERTER



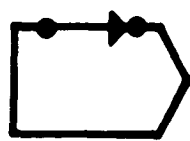
SWITCH CLOSED



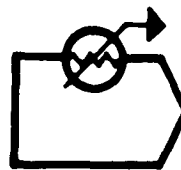
SWITCH OPEN



DOUBLE-ACTING
SWITCH CLOSED



SWITCH CLOSED-WITH
ASSOCIATED ELECTRONICS



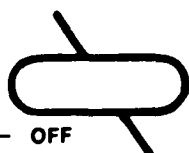
THERMISTOR WITH
ASSOCIATED ELECTRONICS



FILTER, THERMOWELL



ON -INDICATOR LAMPS- OFF



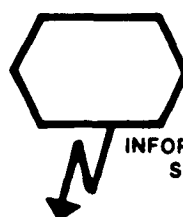
ELECTRICAL



NON-ELECTRICAL



ELECTRONIC
CIRCUIT



INFORMATIONAL
SYMBOL



All inputs
are necessary
for correct
operation



Only one input
is necessary
for correct
operation

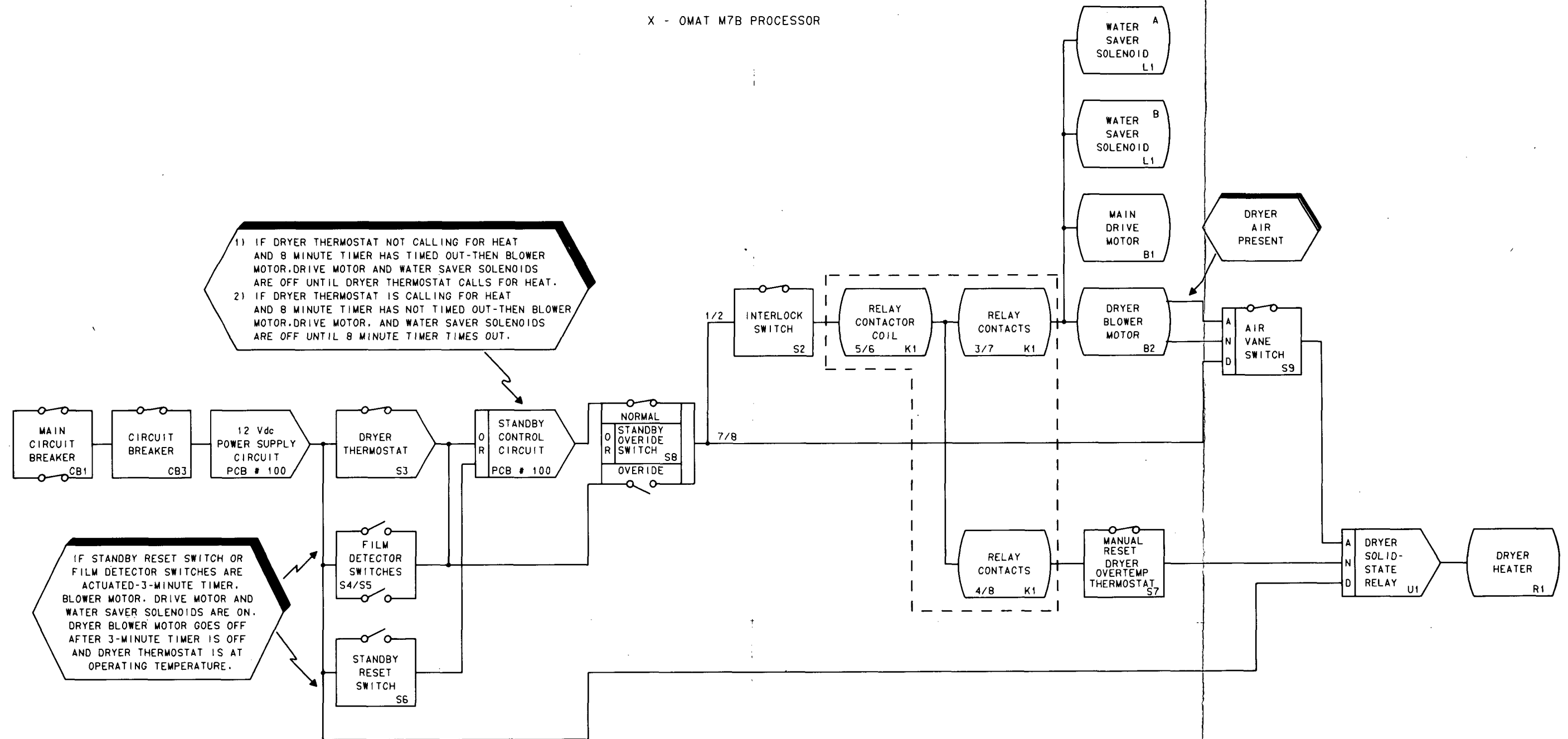
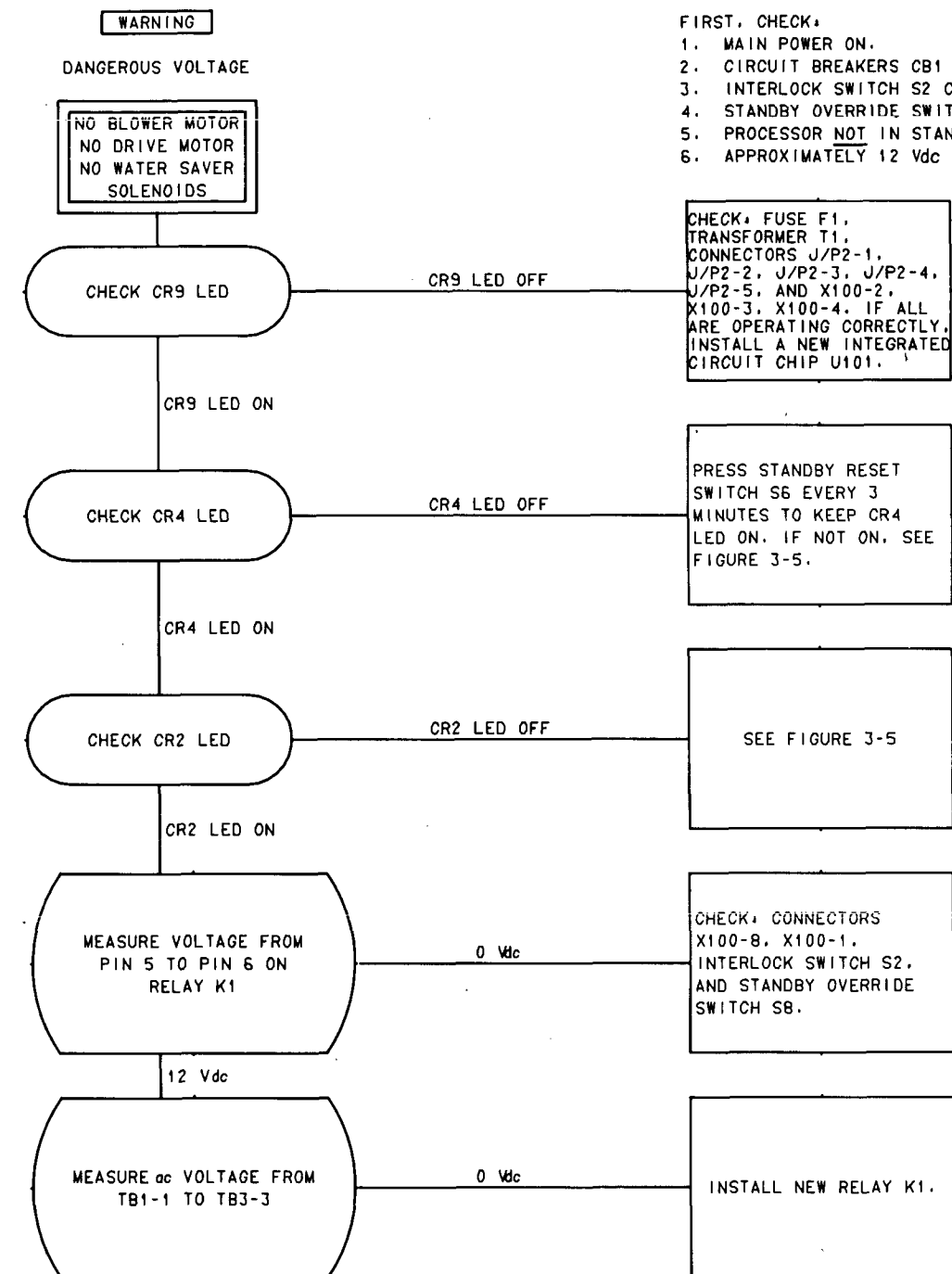
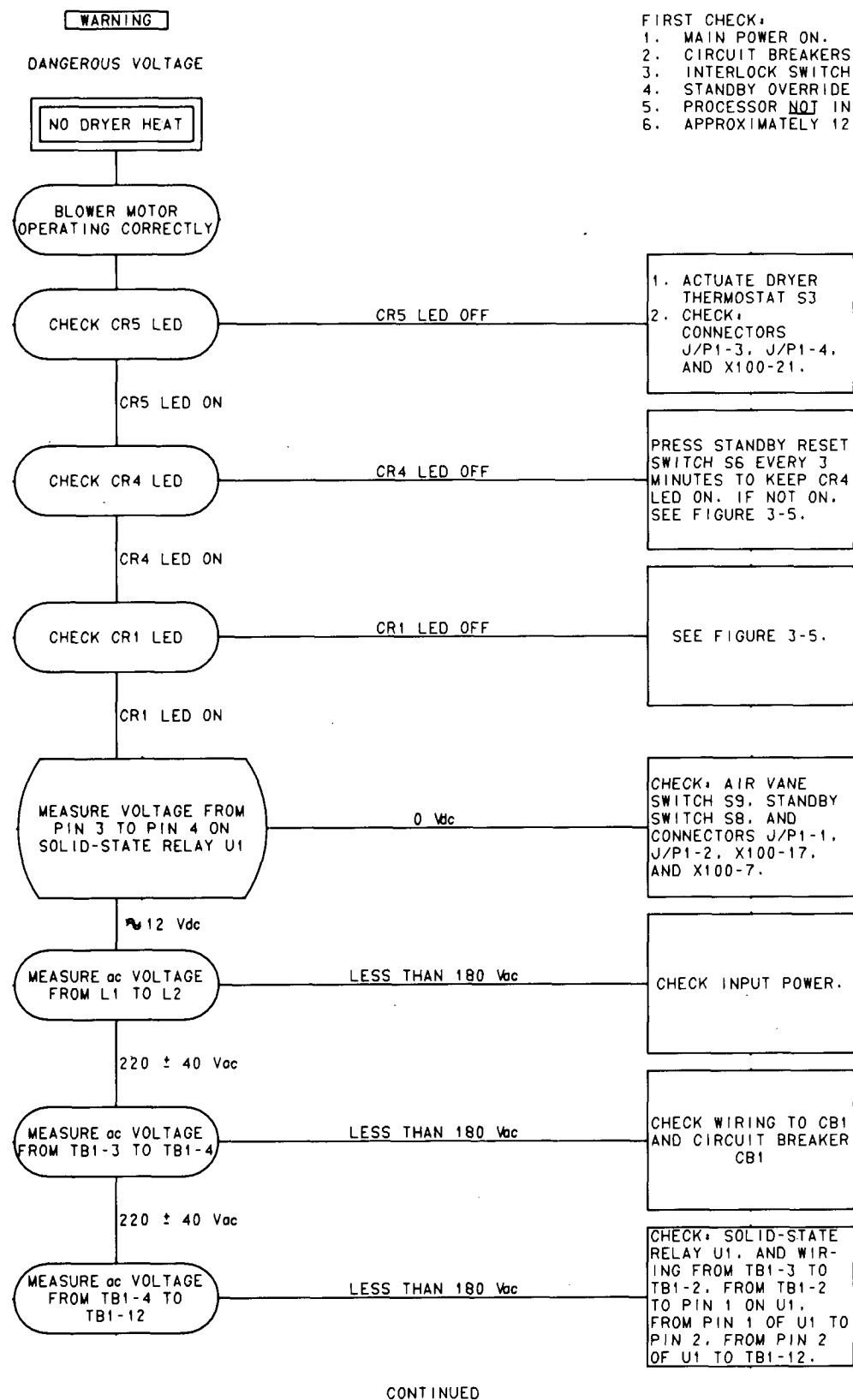


FIGURE 3-1 Sequence of Operation Flowchart for the Dryer Temperature Control, Main Drive, and Water Saver Solenoids on the KODAK RP X-OMAT PROCESSOR, MODEL M7B.



NOTE: ALL VOLTAGES ARE APPROXIMATE ONLY.

FIGURE 3-2 Diagnostic Flowchart for the Dryer Temperature Control, Main Drive, and Water Saver Solenoids on the KODAK RP X-OMAT PROCESSOR, MODEL M7B.



CONTINUED

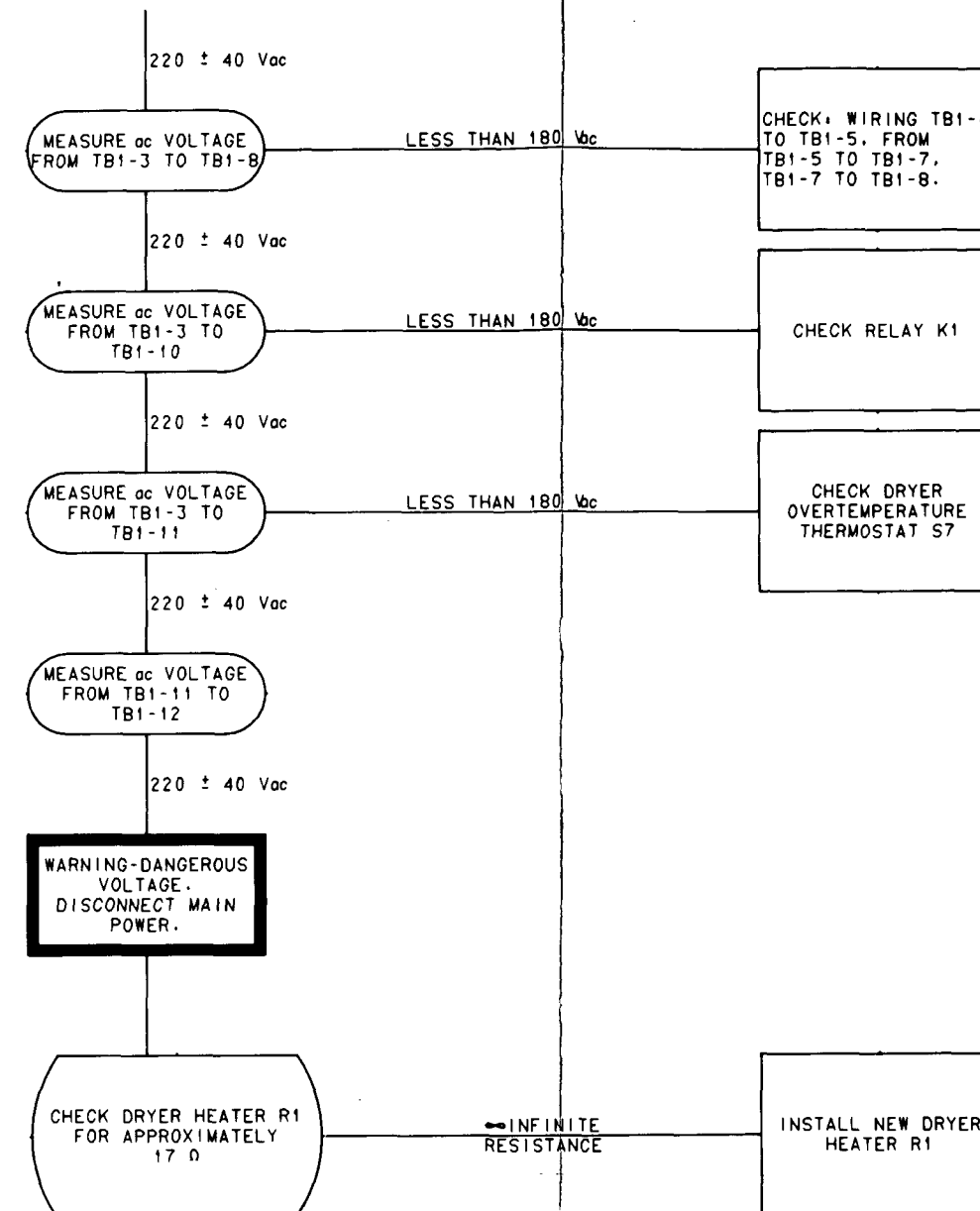


FIGURE 3-3 Diagnostic Flowchart for the Dryer Temperature Control, Main Drive, and Water Saver Solenoids on the KODAK RP X-OMAT PROCESSOR, MODEL M7B.

WARNING
DANGEROUS VOLTAGE

NO BLOWER MOTOR

DRIVE MOTOR AND WATER
SAVER SOLENOIDS
OPERATING CORRECTLY

MEASURE ac VOLTAGE FROM
TB1-1 TO TB1-3

120 Vac

CHECK: THERMAL PROTECT-
OR OF BLOWER MOTOR IS
OPEN - ALLOW MOTOR TO
COOL. TEST AGAIN. IF
NOT OPERATING, INSTALL
NEW CAPACITOR ON THE
MOTOR.

0 Vac

BLOWER MOTOR OPERATING
- NO DRYER HEAT.

SEE FIGURE 3-3

- FIRST, CHECK:
1. MAIN POWER ON.
 2. CIRCUIT BREAKERS CB1 AND CB3 ON.
 3. INTERLOCK SWITCH S2 CLOSED.
 4. STANDBY OVERRIDE SWITCH S8 IN NORMAL MODE.
 5. PROCESSOR NOT IN STANDBY MODE (CR4 LED ON).
 6. APPROXIMATELY 12 Vdc FROM TP1-TP2 (CR9 LED ON).

NOTE: ALL VOLTAGES ARE APPROXIMATE ONLY.

FIGURE 3-4 Diagnostic Flowchart for the Dryer Temperature Control,
Main Drive, and Water Saver Solenoids on the
KODAK RP X-OMAT PROCESSOR, MODEL M7B.

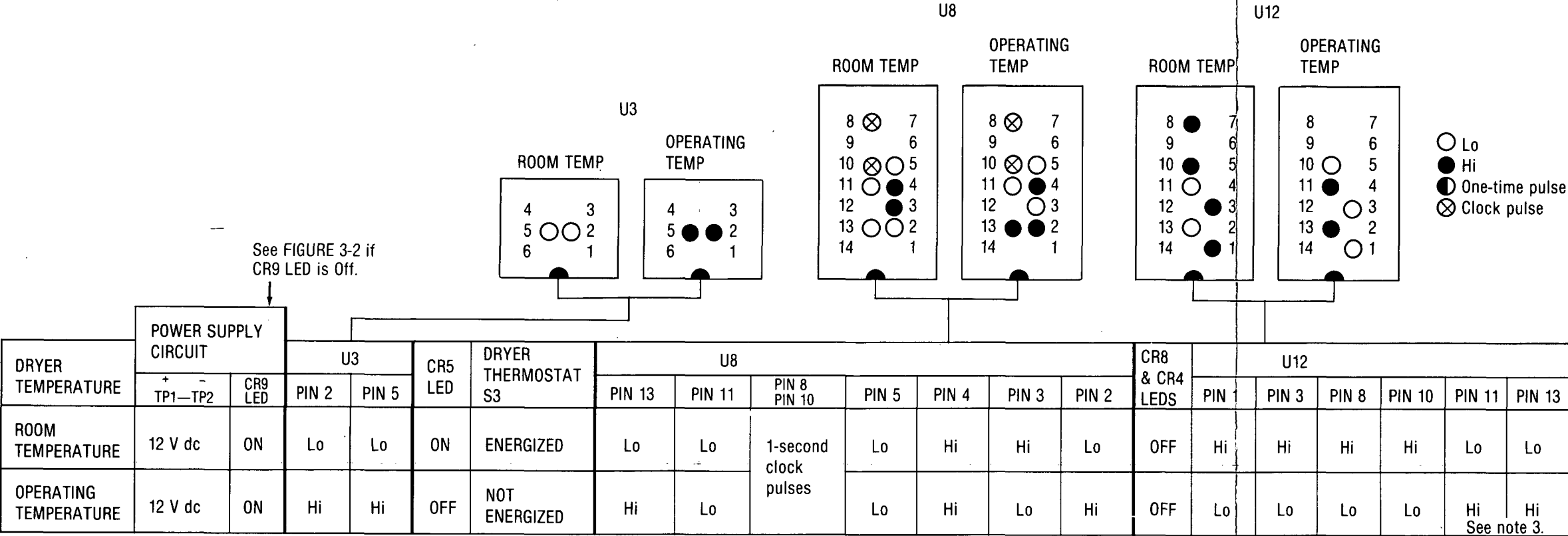
FIRST, CHECK:

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 S4 and/or S5

Actuated Open.
4. INTERLOCK SWITCH S2 Actuated Closed.
5. STANDBY OVERRIDE SWITCH S8 In "Normal Mode".



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

FIGURE 3-5 Circuit Board Flowchart for the Dryer Temperature Control, Main Drive, and Water Saver Solenoids on the KODAK RP X-OMAT PROCESSOR, MODEL M7B.

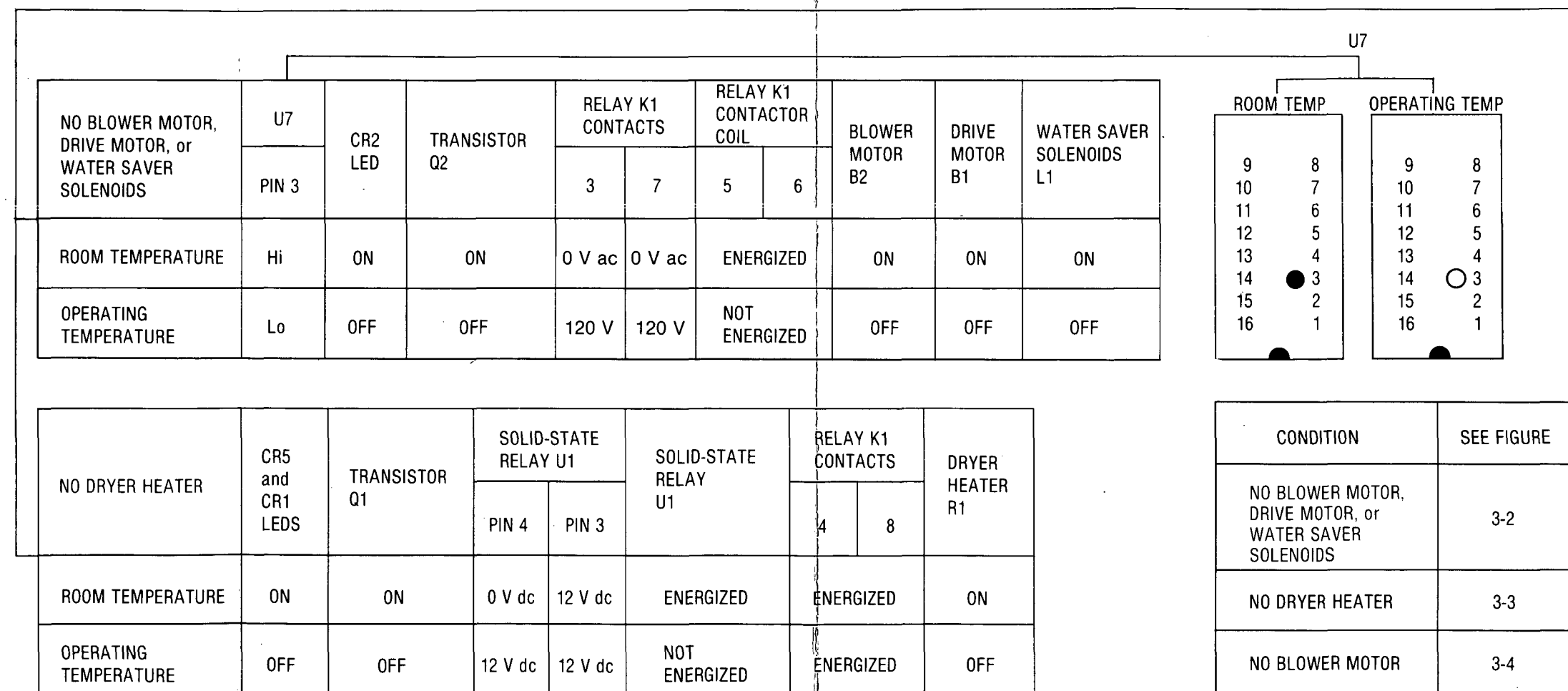
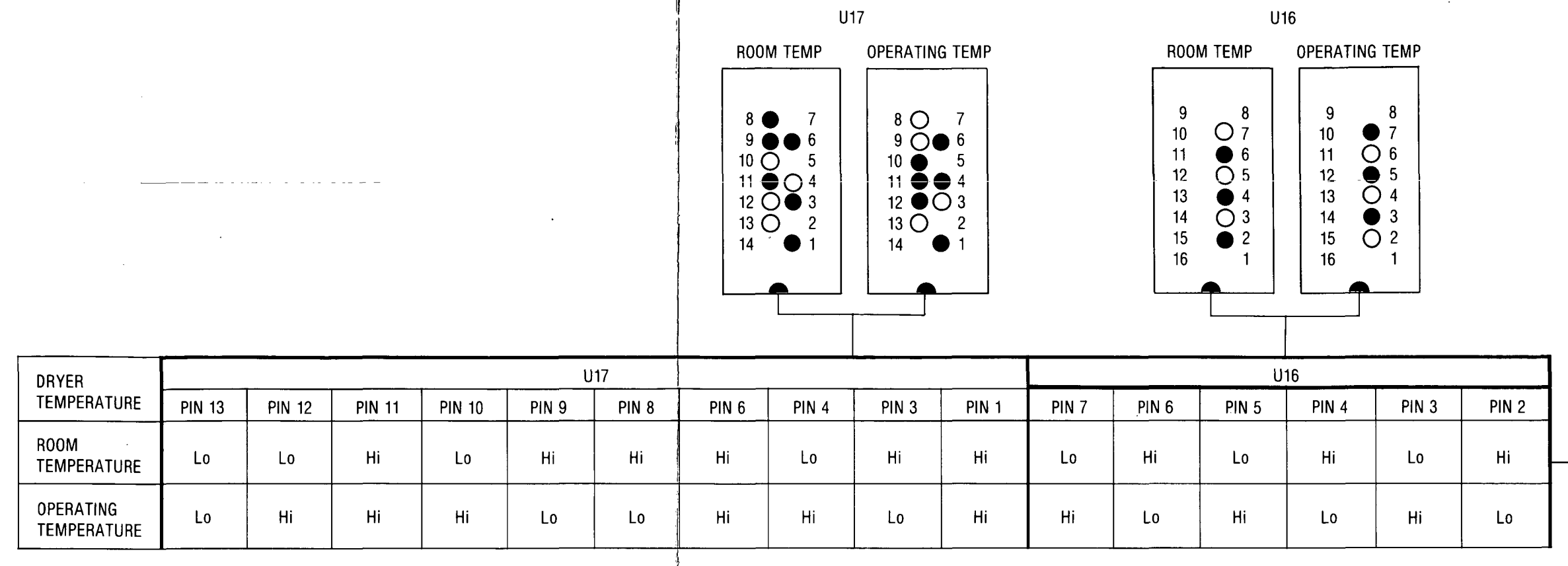
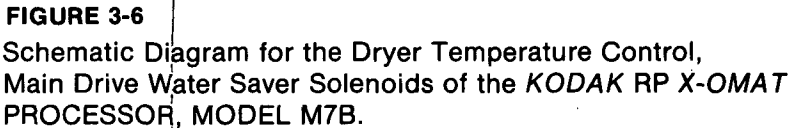


FIGURE 3-5 **Circuit Board Flowchart for the Dryer Temperature Control,**
(continued) **Main Drive, and Water Saver Solenoids on the**
KODAK RP X-OMAT PROCESSOR, MODEL M7B.



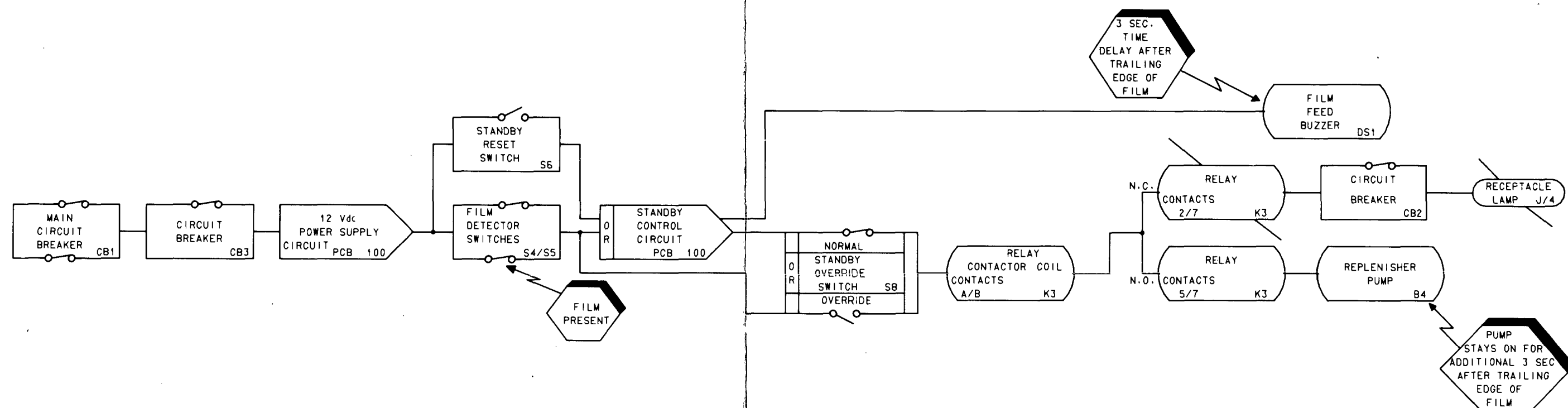


FIGURE 3-7 Sequence of Operation for the Replenishment Control System on the KODAK RP X-OMAT PROCESSOR, MODEL M7B.

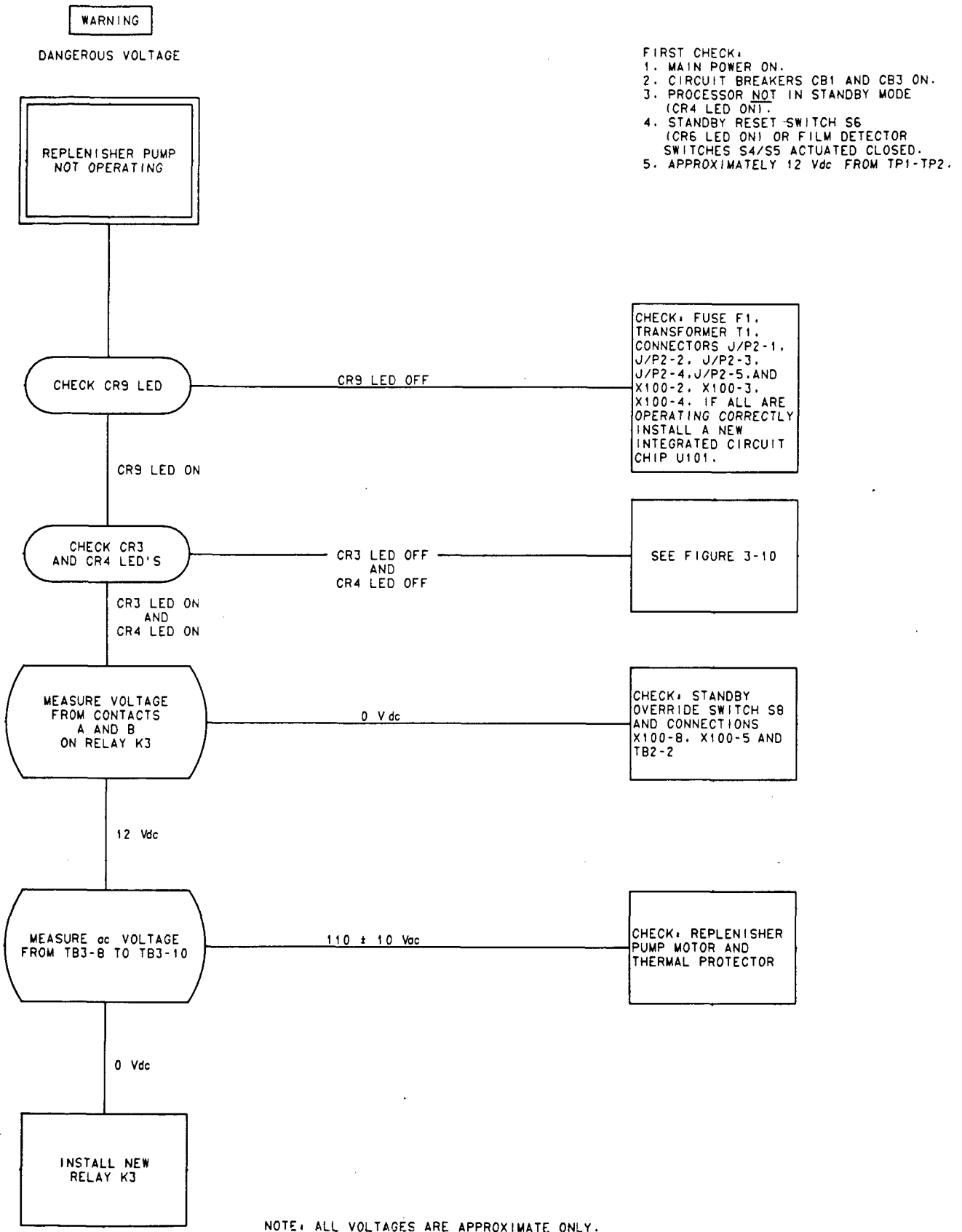


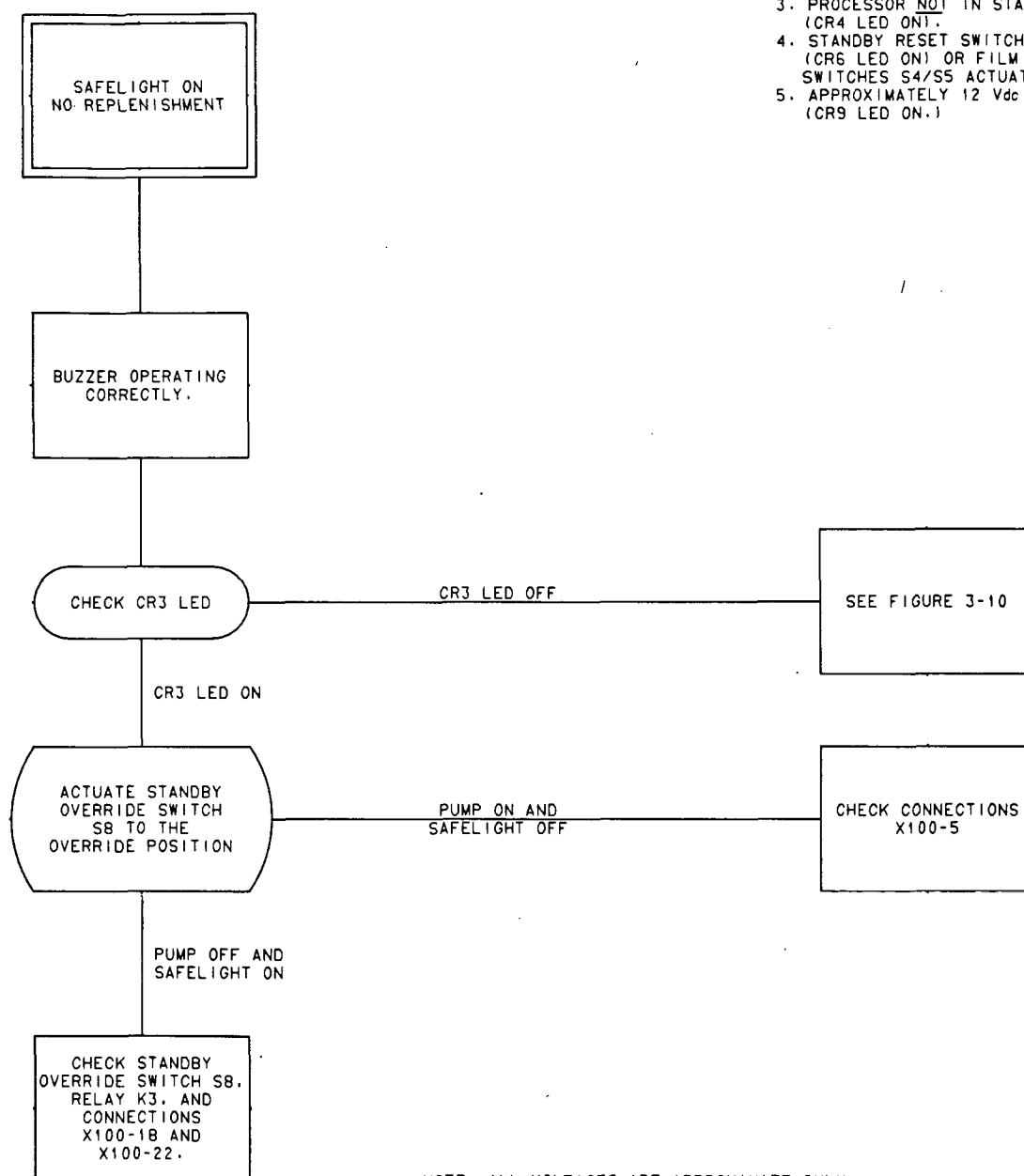
FIGURE 3-8 Diagnostic Flowchart for the Replenishment Control System on the KODAK RP X-OMAT PROCESSOR, MODEL M7B.

WARNING

DANGEROUS VOLTAGE

FIRST CHECK:

1. MAIN POWER ON.
2. CIRCUIT BREAKERS CB1 AND CB3 ON.
3. PROCESSOR NOT IN STANDBY MODE
(CR4 LED ON).
4. STANDBY RESET SWITCH S6
(CR6 LED ON) OR FILM DETECTOR
SWITCHES S4/S5 ACTUATED CLOSED.
5. APPROXIMATELY 12 Vdc FROM TP1-TP2.
(CR9 LED ON.)



NOTE: ALL VOLTAGES ARE APPROXIMATE ONLY.

FIGURE 3-9 Diagnostic Flowchart for the Replenishment Control System on the KODAK RP X-OMAT PROCESSOR, MODEL M7B.

1. PROCESSOR NOT IN STANDBY MODE.
2. STANDBY OVERRIDE SWITCH S8 IN NORMAL MODE.

CONDITION	SEE FIGURE
REPLENISHER PUMP NOT OPERATING	3-8
SAFELIGHT ON NO REPLENISHMENT	3-9

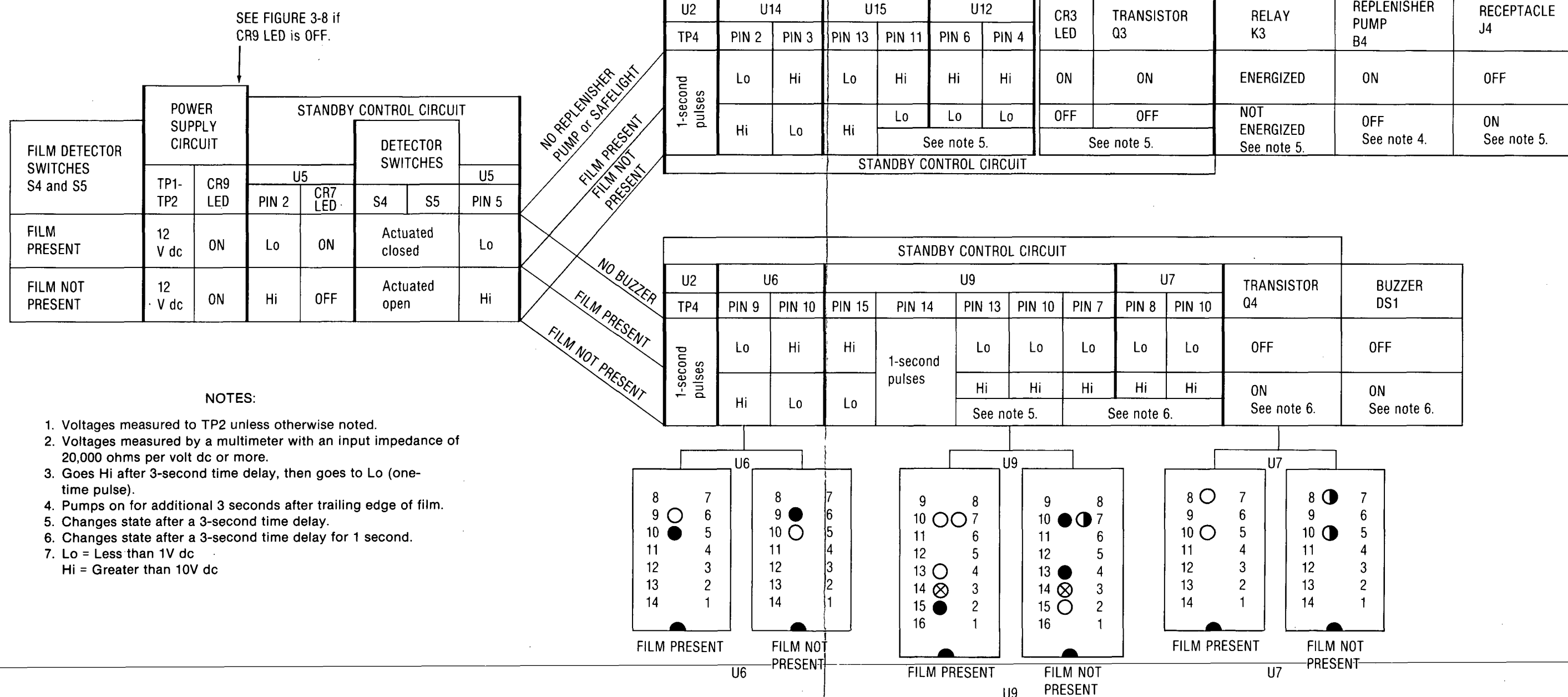


FIGURE 3-10 Circuit Board Flowchart for the Replenishment Control System on the KODAK RP X-OMAT PROCESSOR, MODEL M7B.



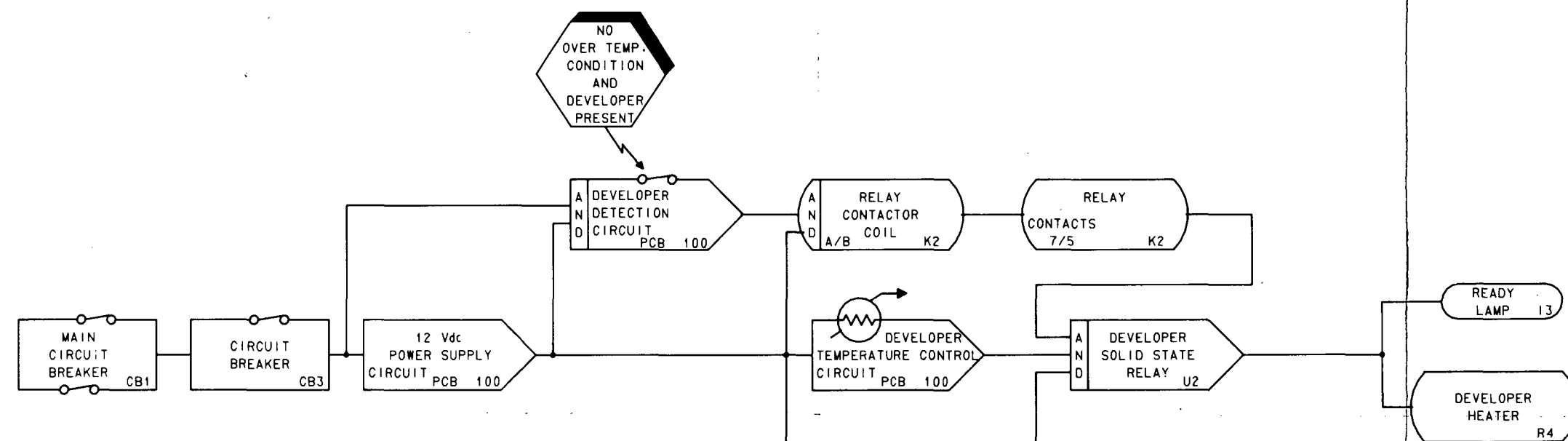
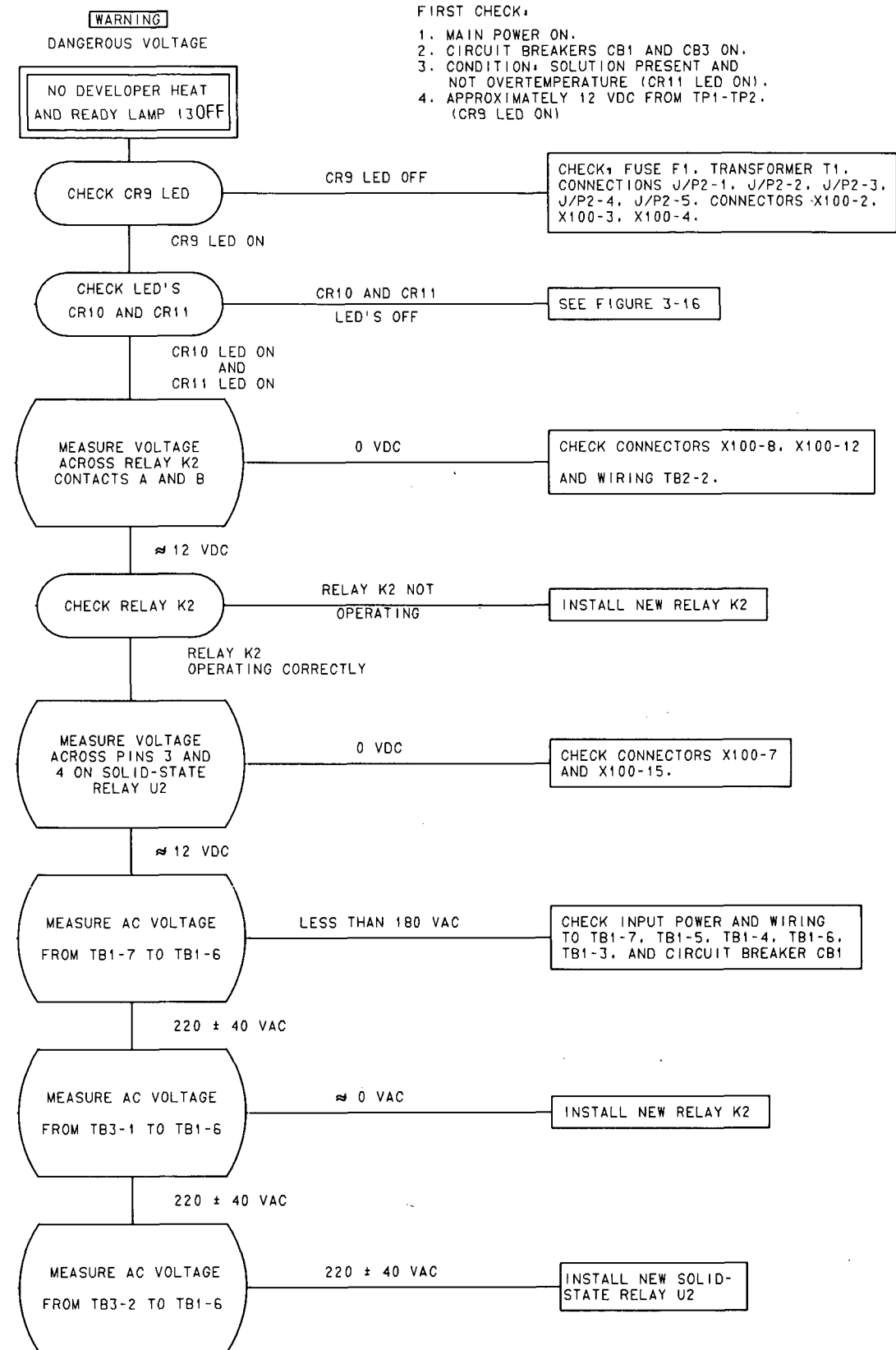


FIGURE 3-12 Sequence of Operation for the Developer Temperature Control System on the KODAK RP X-OMAT PROCESSOR, MODEL M7B.



NOTE: ALL VOLTAGES ARE APPROXIMATE ONLY.

FIGURE 3-13. DIAGNOSTIC FLOWCHART FOR
THE DEVELOPER TEMPERATURE CONTROL.

FIGURE 3-13 Diagnostic Flowchart for the Developer Temperature Control System on the
KODAK RP X-OMAT PROCESSOR, MODEL M7B.

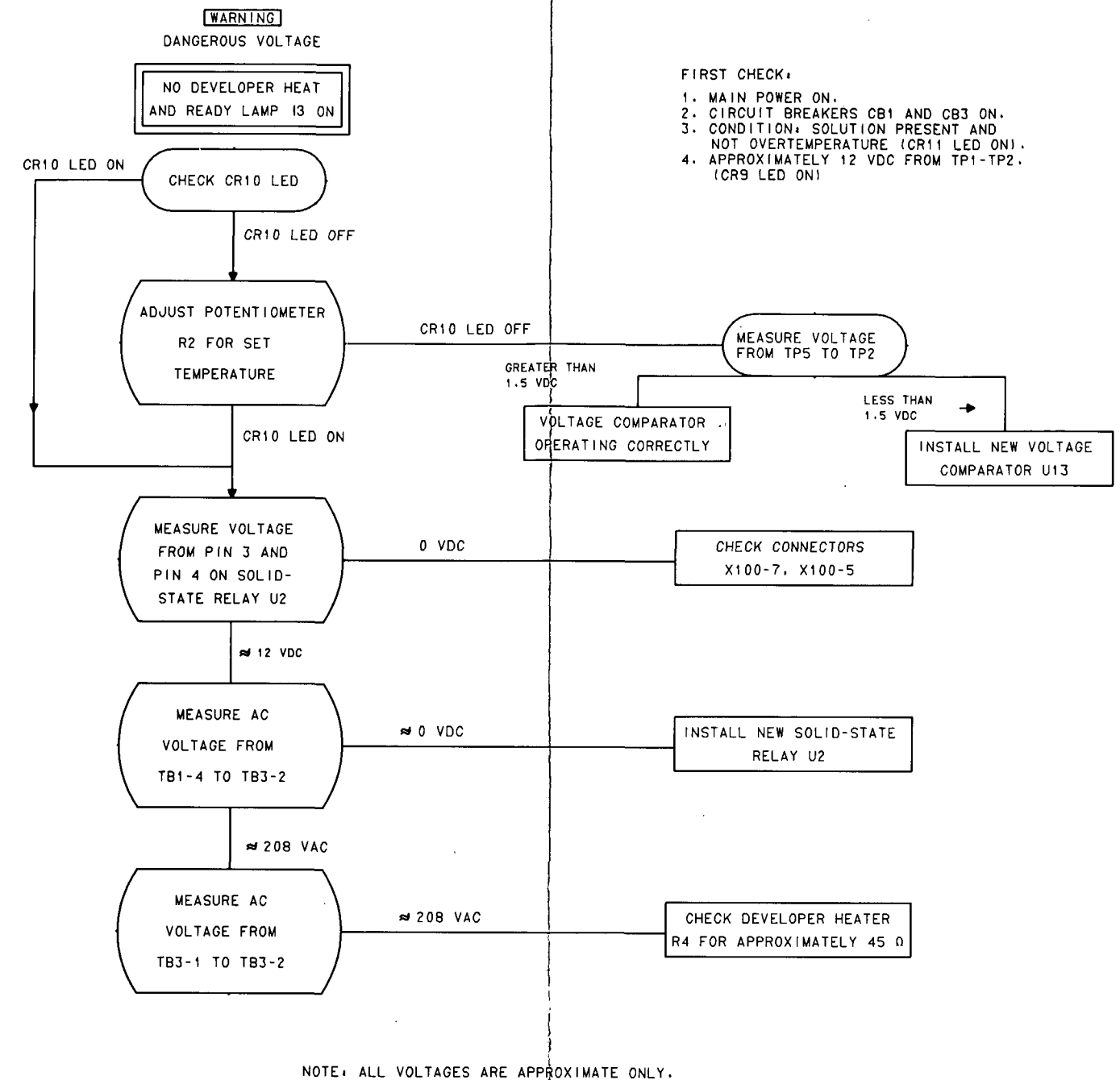


FIGURE 3-14 Diagnostic Flowchart for the Developer Temperature Control System on the KODAK RP X-OMAT PROCESSOR, MODEL M7B.

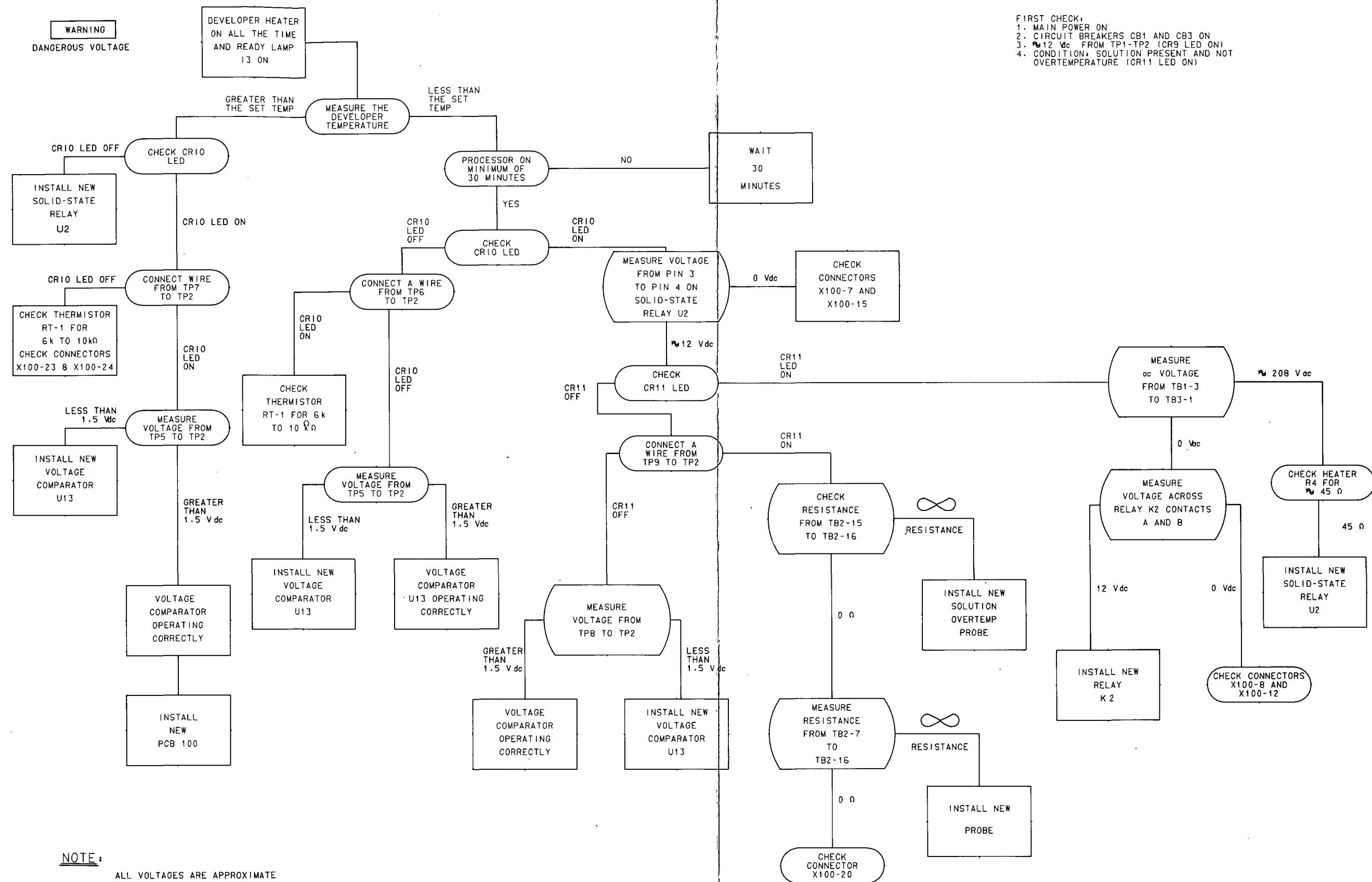


FIGURE 3-15 Diagnostic Flowchart for the Developer Temperature Control System on the KODAK RP X-OMAT PROCESSOR, MODEL M7B.

	POWER SUPPLY CIRCUIT		DEVELOPER TEMPERATURE CONTROL CIRCUIT				SOLID-STATE RELAY U2						
			VOLTAGE COMPARATOR U13				Contacts						
DEVELOPER TEMPERATURE	+ TP1 to TP2	CR10 LED	TP7	TP6	TP5	CR10 LED	4	3	RELAY U2	READY LAMP I3	DEVELOPER HEATER R4	RELAY K2 See note 3.	CR11 LED
			See note 4.										
ROOM TEMPERATURE	12 ± 1/2 V dc	ON	greater than TP6	7 ± 1½ V dc	2 ± 1/2 V dc	ON	Lo	Hi	ENERGIZED	ON	ON	ENERGIZED See note 3.	ON
OPERATING TEMPERATURE	12 ± 1/2 V dc	ON	less than TP6	7 ± 1½ V dc	Less than 0.5 v dc	OFF	Hi	Hi	NOT ENERGIZED	OFF	OFF	NOT ENERGIZED See note 3.	ON

	POWER SUPPLY CIRCUIT		SOLUTION PRESENCE/ OVERTEMPERATURE CIRCUIT				RELAY K2		
			VOLTAGE COMPARATOR U13						
SOLUTION PRESENT	+ TP1 to TP2	CR9 LED	TP10	TP9	TP8	CR11 LED	Contacts		RELAY K2
							B	A	
SOLUTION PRESENT and NOT OVER TEMPERATURE	12 ± 1/2 V dc	ON	4 ± 0.7 V dc	less than TP10	2 ± ½ V dc	ON	Lo	Hi	ENERGIZED
NO SOLUTION PRESENT and OVER TEMPERATURE	12 ± 1/2 V dc	ON	4 ± 0.7 V dc	more than TP10	Less than 0.5 V dc	OFF	Hi	Hi	NOT ENERGIZED

CONDITION	SEE FIGURE
NO DEVELOPER HEAT READY LAMP I3 OFF	3-13
NO DEVELOPER HEAT READY LAMP I3 ON	3-14
DEVELOPER HEATER ON ALL THE TIME AND READY LAMP I3 ON	3-15

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. If Relay K2 is not energized (CR11 LED OFF), check the NO SOLUTION PRESENT and OVERTEMPERATURE section above.
4. Using a multimeter on U13 will result in a false indication, if the voltages at TP6 and TP7 are approximately the same.

FIGURE 3-16 Circuit Board Flowchart for the Developer Temperature Control System on the KODAK RP X-OMAT PROCESSOR, MODEL M7B.

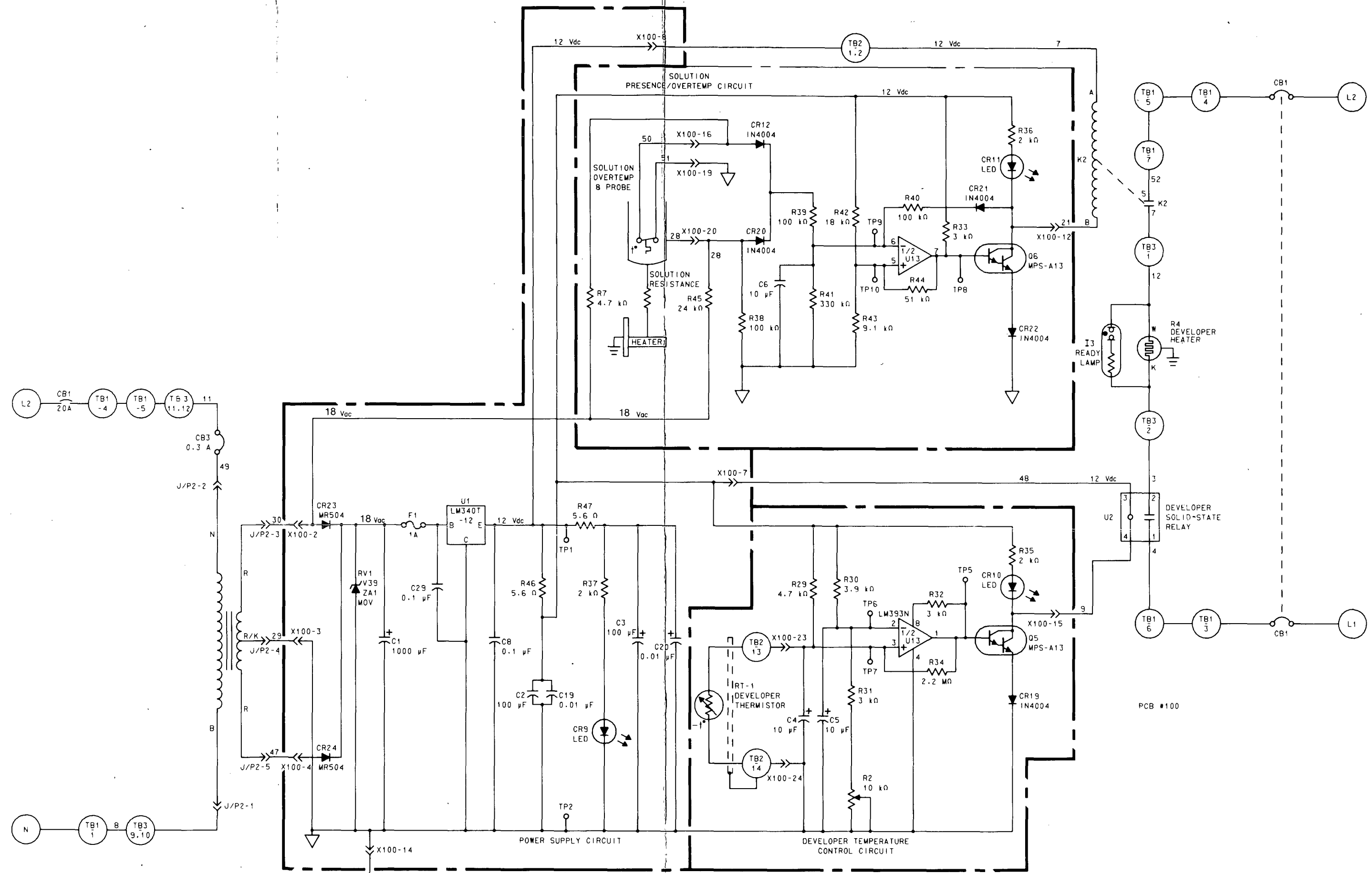


FIGURE 3-17 Schematic Diagram for the Developer Temperature Control System on the KODAK RP X-OMAT PROCESSOR, MODEL M7B.

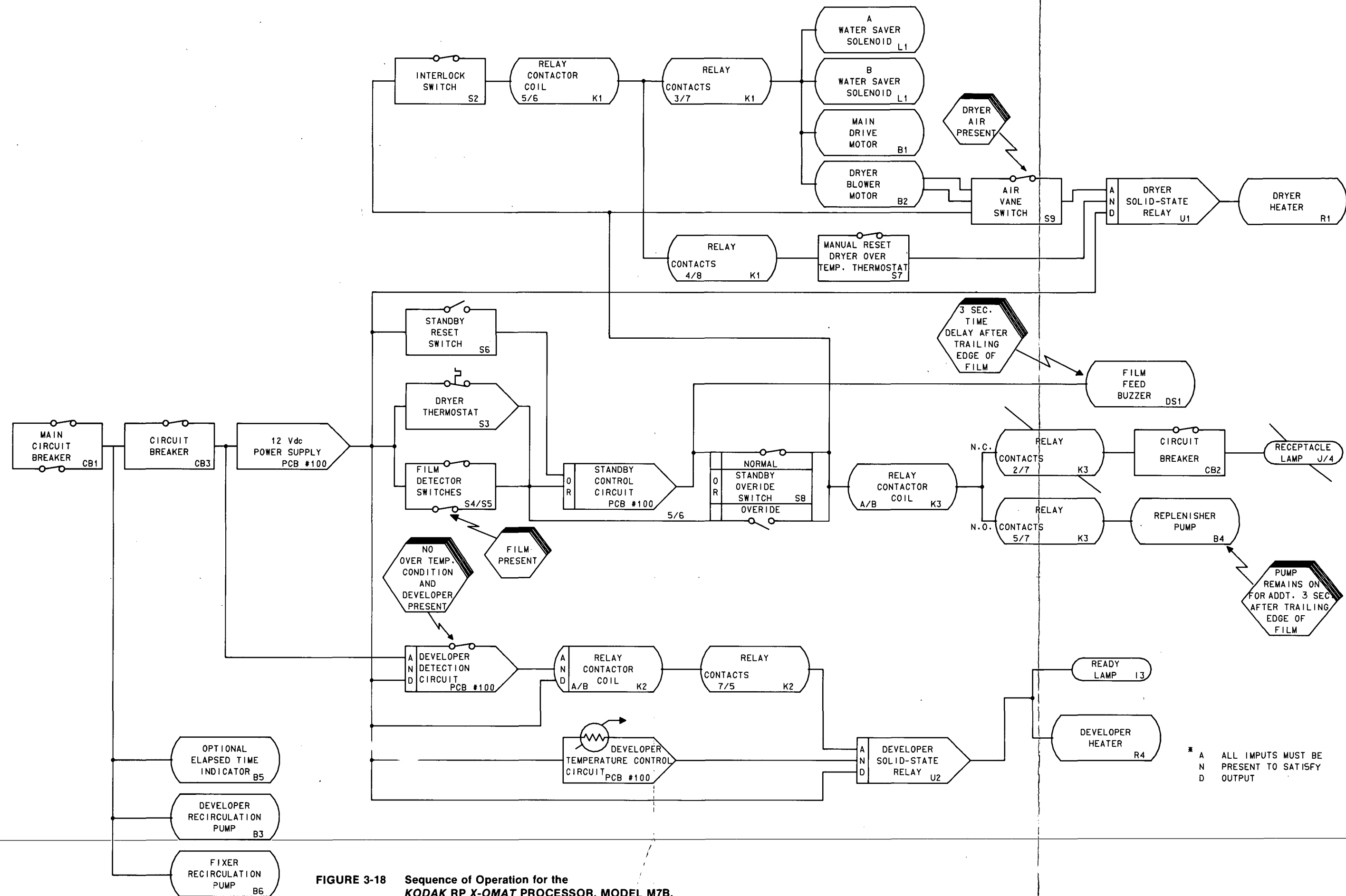


FIGURE 3-18 Sequence of Operation for the KODAK RP X-OMAT PROCESSOR, MODEL M7B.

SECTION 4 SERVICE ENGINEERING BULLETINS

Insert all bulletins in this section.

SECTION 5

PERIODIC MAINTENANCE (PM)*

SECTION 5 PERIODIC MAINTENANCE (PM)*

To provide for maximum operation of the PROCESSOR, do the following periodic maintenance when necessary:

1. Provide the lubrication for parts.
2. Clean the parts.
3. Check the condition of parts.
4. Adjust the parts.

Process a number of 35 x 43 cm (14 x 17-inch) films to check film transport through the PROCESSOR.

*This section includes procedures in addition to those in the Operator Checklist.

LUBRICATION CHART

WARNING

Dangerous Voltage

Disconnect the main power before you lubricate the parts.

CAUTION

Do not allow any OIL or GREASE to touch the CROSSOVERS, and RACK ASSEMBLIES or drip into the solution TANKS.

PART	LUBRICANT	FREQUENCY	PROCEDURE
MAIN DRIVE CHAIN	NLGI - No. 2 Lithium Ball and Roller Bearing Grease.*	As necessary Check monthly	Apply to surface of chain.
RECIRCULATION PUMPS	Light oil, such as SAE No. 20 Motor Oil+	Every 6 months.	A number of drops in the oil holes.
MAIN DRIVE MOTOR	No lubrication necessary.		
MAIN DRIVE MOTOR GEAR HOUSING	No lubrication necessary.		
REPLENISHER PUMP MOTOR AND GEAR HEAD	No lubrication necessary.		
DRYER BLOWER MOTOR BEARINGS	No lubrication necessary.		

* Twelve-ounce tubes, Part No. 760614, can be ordered from Eastman Kodak Company, Parts Services, 800 Lee Road, Rochester, New York 14650.

+ One-ounce tube of SAE No. 20 Motor Oil, Part No. 763001, can be ordered from Eastman Kodak Company, Parts Services, 800 Lee Road, Rochester, New York 14650.

DETECTOR CROSSOVER ASSEMBLY

CAUTION

Check that the ASSEMBLY is square and seated correctly when installed.

Adjustment of the ROCKER ARM

- ☐ If the ROCKER ARM has corrosion, install a new one.
- ☐ Check that the ARM moves freely. If it does not, remove the ARM and BUSHING. Clean with warm water and install again.

Cleanliness of the DETECTOR ROLLERS

- ☐ Clean with a damp, lint-free cloth or natural sponge.

DETECTOR CROSSOVER ASSEMBLY

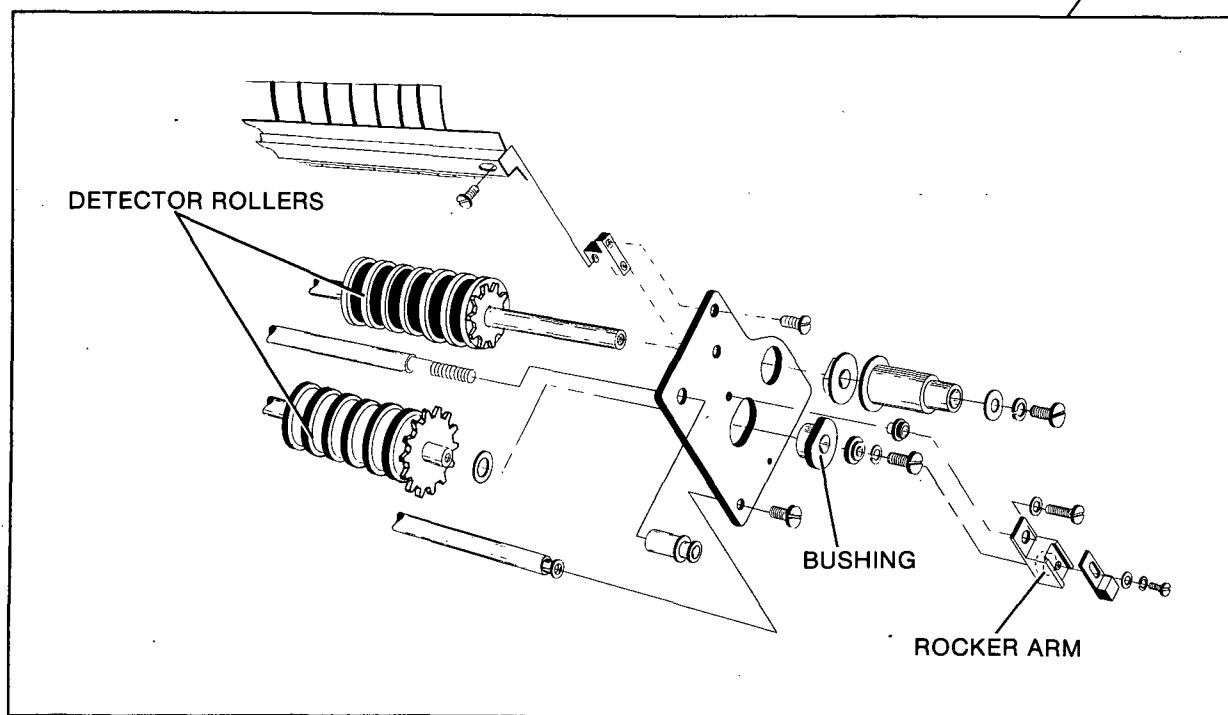


FIGURE 5-1

DETECTOR SWITCH ASSEMBLY (2)

Check that the DETECTOR SWITCHES operate the REPLENISHER PUMP.

DETECTOR SWITCH ASSEMBLY (2)

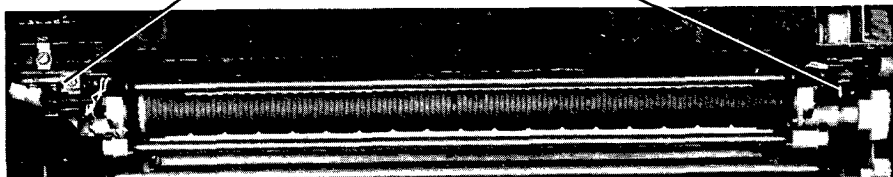


FIGURE 5-2

REPLENISHER PUMP

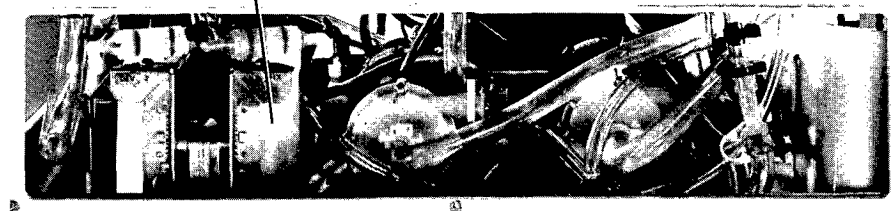


FIGURE 5-3

CROSSOVER ASSEMBLIES

CAUTION

When you remove the ASSEMBLIES from the PROCES-
SOR, rotate them over on a flat surface so that the GUIDE
SHOE ASSEMBLY is up.

Cleanliness

<input type="checkbox"/> Rinse under running water	<input type="checkbox"/> If deposits accumulate, use warm water and a soft brush or use:
DEVELOPER-FIXER CROSSOVER ASSEMBLY	KODAK DEVELOPER SYS- TEM CLEANER or equivalent.
FIXER-WASH CROSSOVER ASSEMBLY	KODAK FIXER/WASH SYSTEM CLEANER

Worn Teeth

- ☐ Check ROLLERS for broken teeth. Install new roller if
necessary.

Squareness

- ☐ Check the ASSEMBLY for squareness by rotating it
over on a flat surface.

RESILIENT ROLLER

- ☐ Check for smoothness and install new ROLLER if
necessary.

GUIDE SHOES

- ☐ When you install, check that the longer TIPS are in the
direction of travel. The EXIT GUIDE SHOE is not to
touch the INNER TOP ROLLER in the RACK AS-
SEMBLY.

BEARING, BRACKETS, and NUTS

- ☐ Check for wear or broken parts and install new ones if
necessary.

DRIVE GEAR

- ☐ Check for wear or burrs, and install new GEAR if neces-
sary.

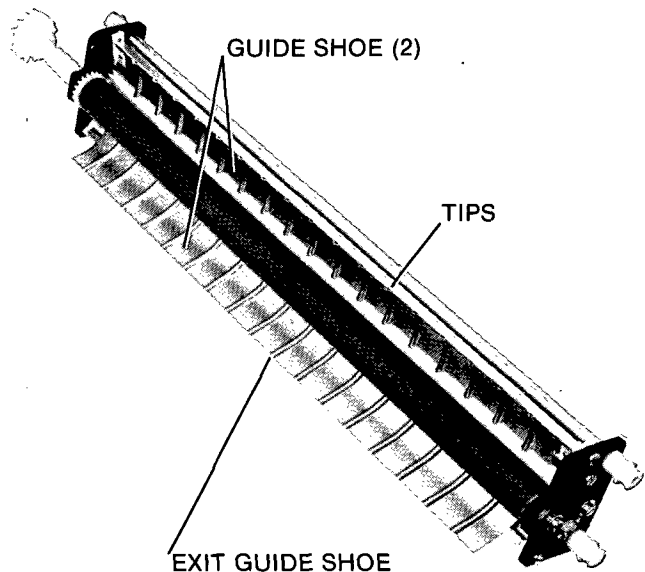
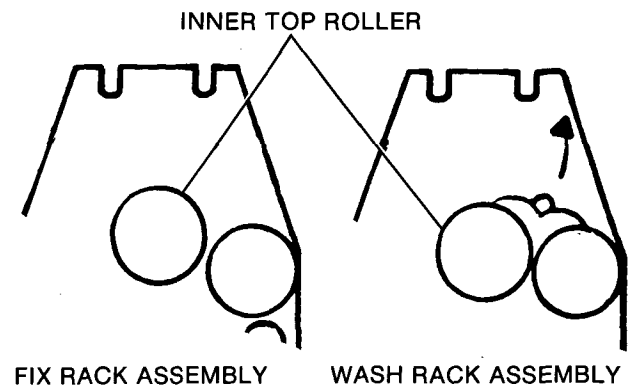


FIGURE 5-4

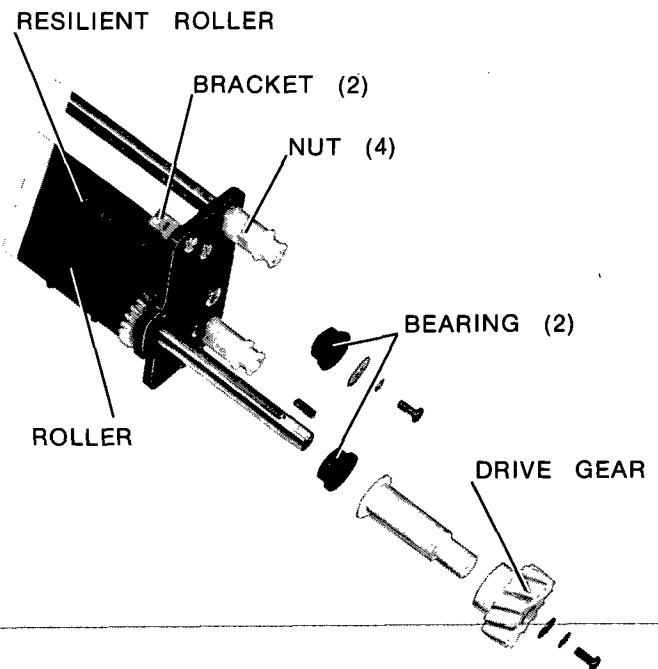


FIGURE 5-5

DRYER ASSEMBLY

ROLLERS

- ☐ Check that all rotate freely with the DRYER DRIVE BELTS removed.
- ☐ Check for broken teeth and install new GEARS if necessary.

DRYER DRIVE BELTS

- ☐ Check for wear and install new BELTS if necessary.
- ☐ Check the tension; adjust the PULLEYS if necessary.

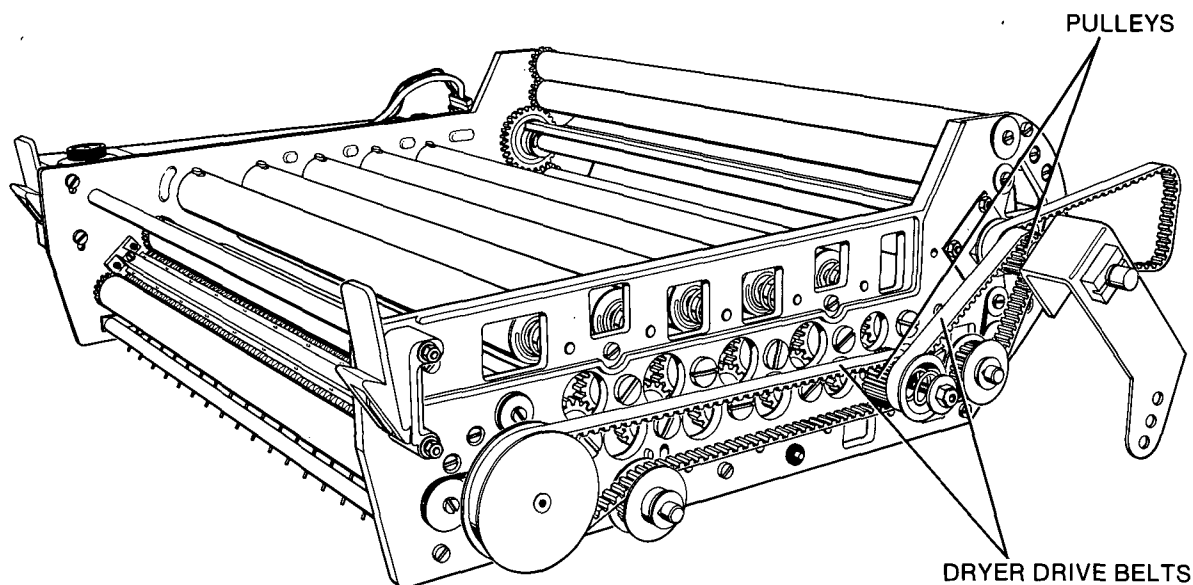


FIGURE 5-6

PULLEY ASSEMBLIES

- ☐ Check the PULLEY BEARINGS for wear.

AIR TUBES

- ☐ Remove any dirt or dust.

AIR TUBE SPRINGS

- ☐ Check for wear and install new SPRINGS if necessary.

GUIDE PINS

- ☐ Check the alignment.
- ☐ Remove any burrs from the TIPS.

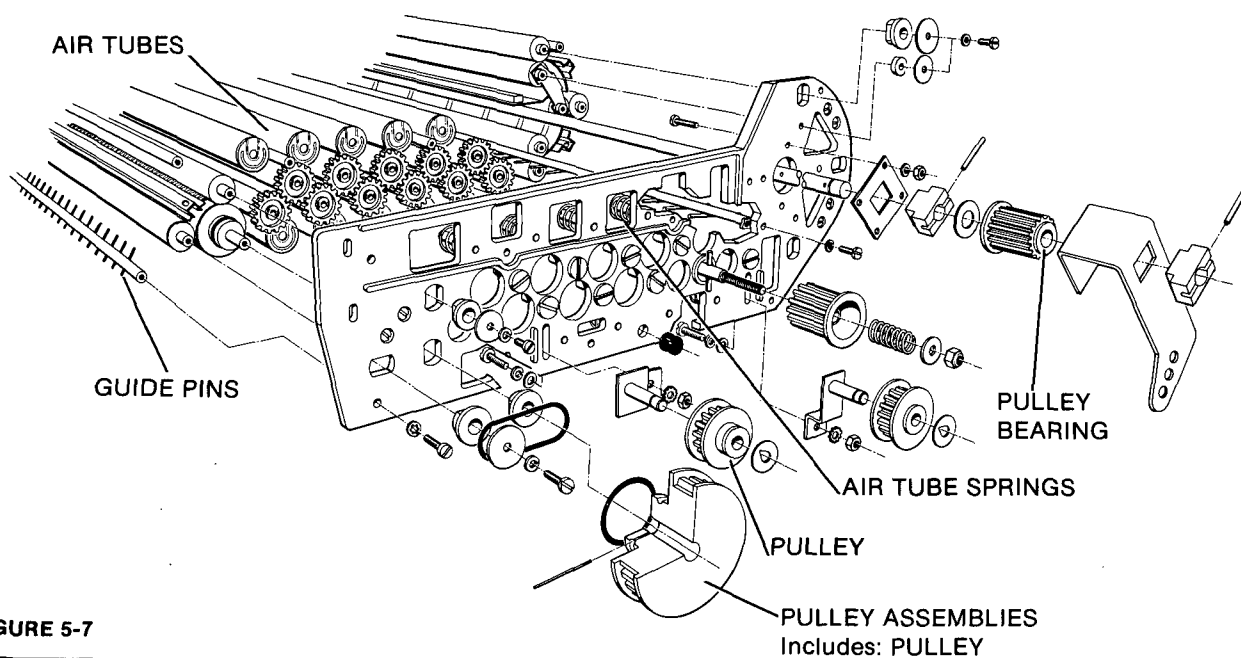


FIGURE 5-7

DRYER ASSEMBLY (Continued)

GUIDE SHOES

- ☐ Check that the TIPS do not hit ROLLERS or film.

GUIDE SHOE BRACKETS

- ☐ Check for broken parts and install new ones if necessary.
- ☐ Check for stripped SCREW holes.

GEARS

- ☐ Check for wear or burrs. Install new GEARS if necessary.

PLATE SPRINGS

- ☐ Check for wear and install new ones if necessary.
- ☐ Check that the PLATE SPRINGS are not too tight.

AIR VANE SWITCH S9

- ☐ Check that the flow of air in the DRYER actuates the SWITCH.
- ☐ Remove the SWITCH and check for mechanical binds. Install a new SWITCH if necessary.

DRYER THERMOSTAT

- ☐ Check the setting. The temperature range is dependent upon ambient conditions.

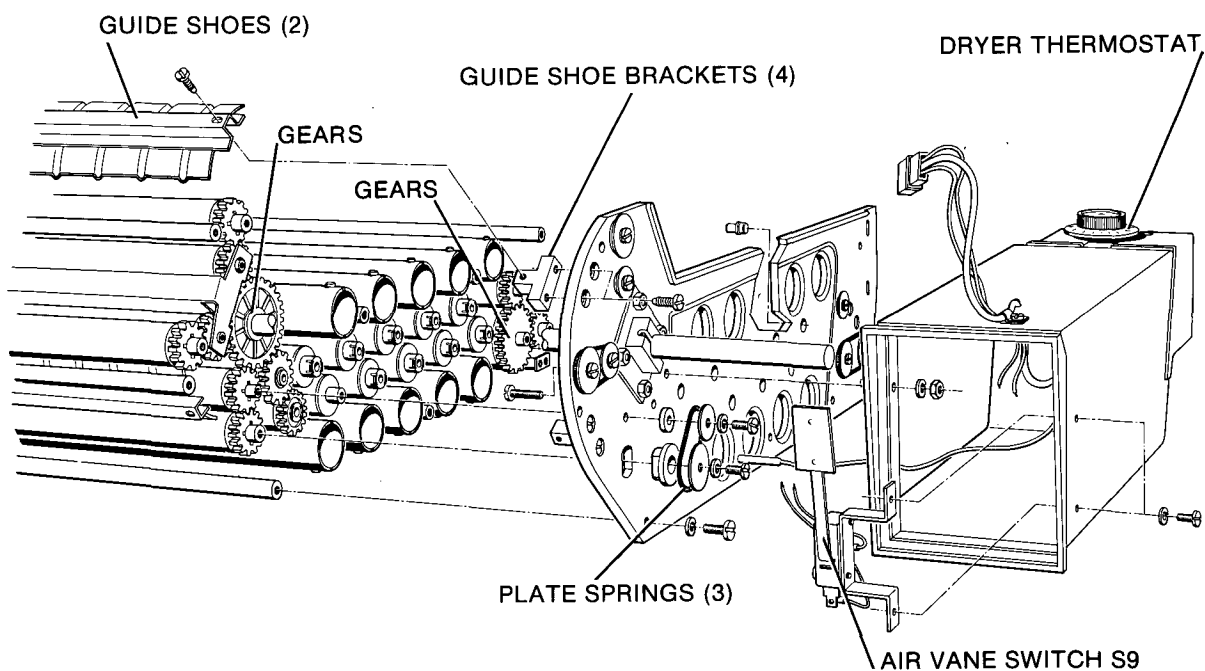


FIGURE 5-8

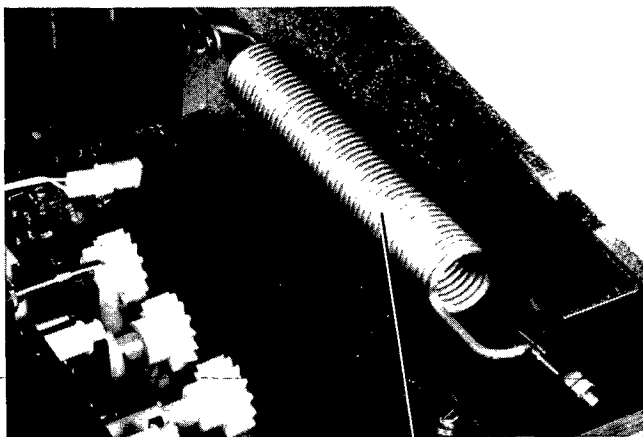


FIGURE 5-9

COUNTERBALANCE SPRING

CAUTION

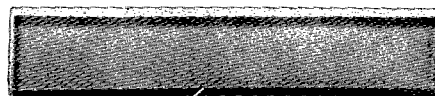
Do not overtighten the SPRING.

- ☐ Adjust the tension so that the SPRING holds the DRYER up when the PROCESSOR is open.

RACK ASSEMBLIES

CAUTION

When you remove the FIXER RACK ASSEMBLY, install a SPLASH GUARD between the DEVELOPER and FIXER TANKS to prevent fixer from contaminating the developer. Use a DRIP TRAY when removing the RACK ASSEMBLIES.



SPLASH GUARD

Cleanliness

<input type="checkbox"/> Rinse with warm water - approximately 43.5°C (110°F).	<input type="checkbox"/> Discoloration of the rollers is normal. Remove any deposits with warm water and a brush or use:
DEVELOPER RACK ASSEMBLY	KODAK DEVELOPER SYSTEM CLEANER, or equivalent.
FIXER BACK ASSEMBLY	KODAK FIXER/WASH SYSTEM CLEANER or equivalent.
WASH RACK ASSEMBLY	If the ROLLERS are slimy: KODAK FIXER/WASH SYSTEM CLEANER, or equivalent.

- ☐ To clean the INNER ROLLERS, remove all OUTER ROLLERS on the entrance side except the bottom one. Remove the STUDS and NUTS from the drive side.
- ☐ Check all SPROCKETS and GEARS for wear.
- ☐ Check all ROLLERS visually for unusual warping and bow.
- ☐ Check that the RACK is square and the ROLLERS are in their correct configuration.

For example only:

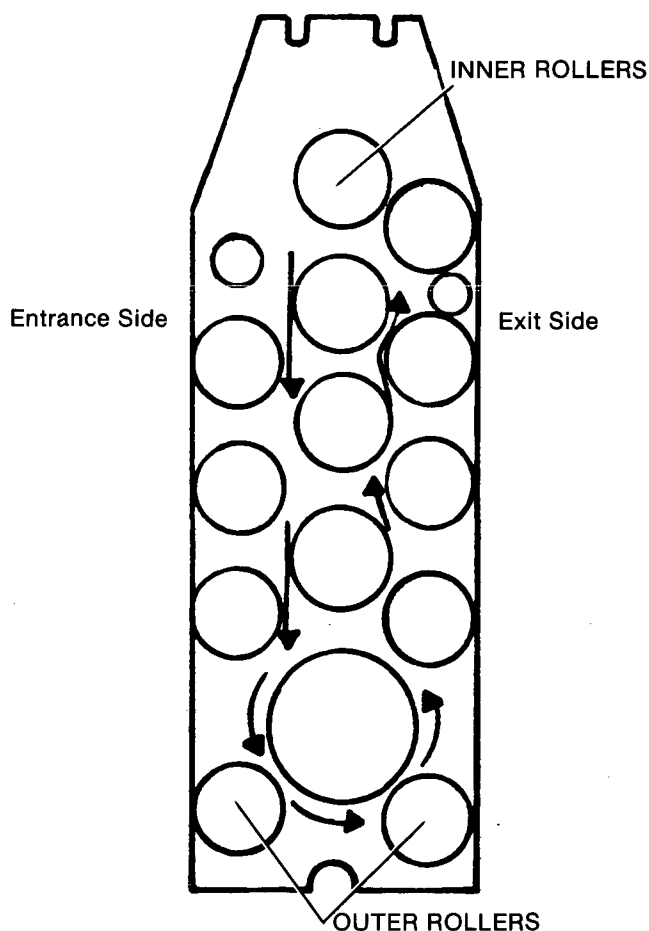


FIGURE 5-10 DEVELOPER RACK ASSEMBLY

CHAIN

- ☐ Check the CHAIN LINKS. Manually rotate the DRIVE GEAR so that the entire length of the CHAIN passes over the DRIVE SPROCKET.
- ☐ Check the CHAIN tension:
 - Too tight a CHAIN - ROLLERS bind; wear on the BEARING.
 - Too loose a CHAIN - prevents ROLLERS from moving smoothly.
- ☐ Adjust the CHAIN by moving the TURNAROUND up or down.

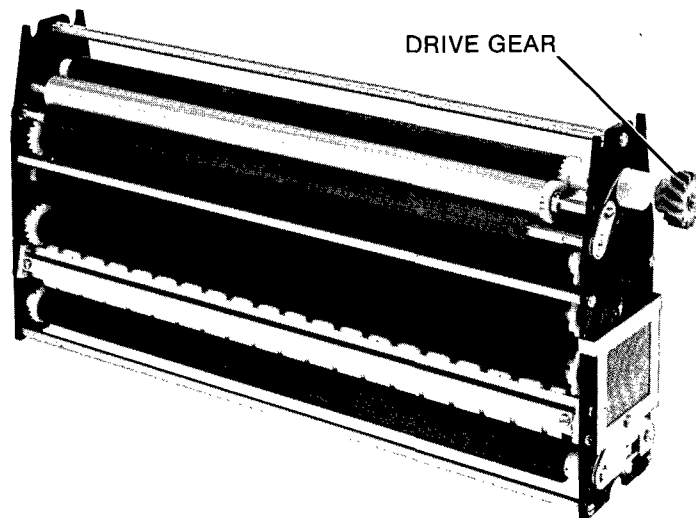
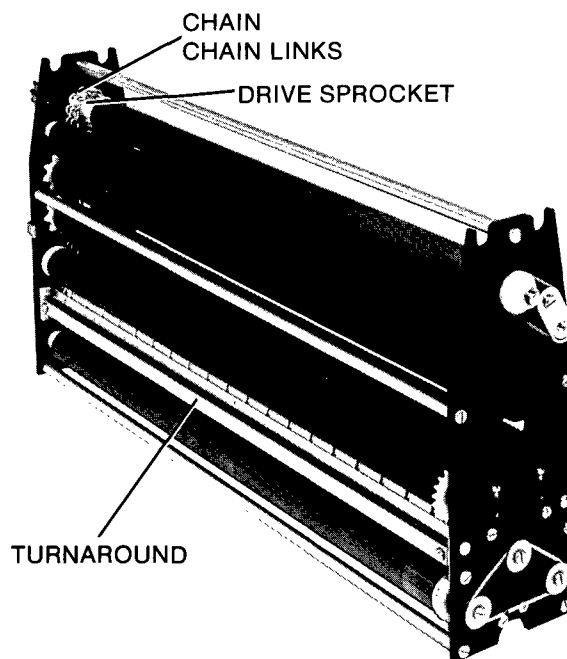


FIGURE 5-11 DEVELOPER RACK ASSEMBLY

SPRINGS

- ☐ Check for wear. Install new SPRINGS if necessary.

REWET ROLLER

- ☐ Check for wear.
- ☐ ROLLER is to touch the ROLLERS above and below it.

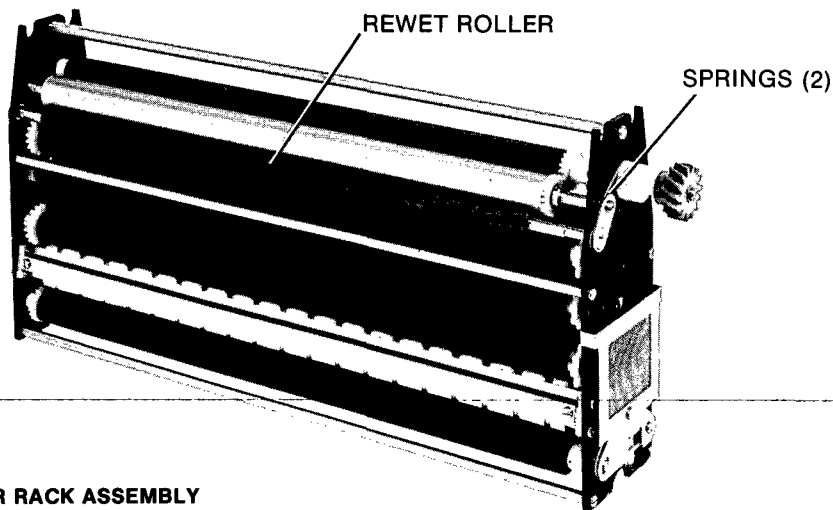


FIGURE 5-12 DEVELOPER RACK ASSEMBLY

TURNAROUND ASSEMBLIES

□ To remove deposits from the DEVELOPER TURN-AROUND ASSEMBLY, use: *KODAK DEVELOPER SYSTEM CLEANER*, or equivalent.

□ To remove deposits from the FIXER and WASH TURN-AROUND ASSEMBLY, use: *KODAK FIXER/WASH SYSTEM CLEANER*, or equivalent.

SPRINGS

□ Check the tension.

ROLLERS

□ Check that the ROLLER ASSEMBLY moves freely in the slots of the locating PLATE.

□ Check the BEARINGS. ROLLERS should rotate freely on the SHAFT.

□ Check that the ROLLERS are not too loose. Check that the surface of the ROLLERS is smooth.

Cleanliness

□ Wipe all the ROLLERS with a damp cloth or sponge.

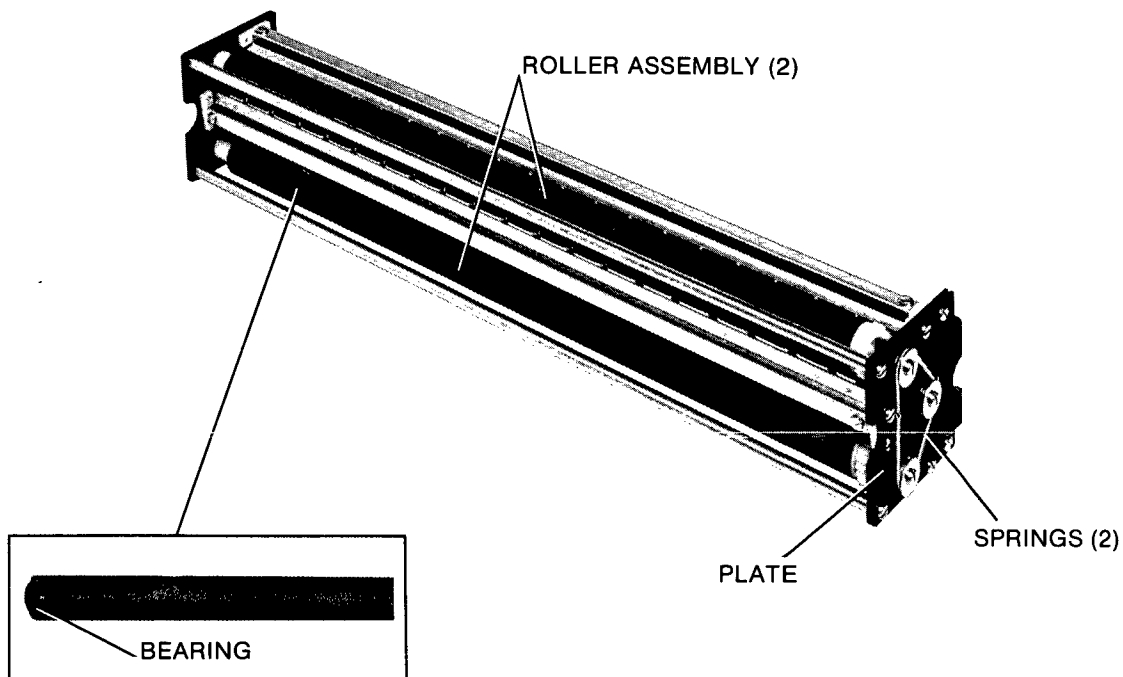


FIGURE 5-13 TURNAROUND ASSEMBLY

MAIN DRIVE AND DRYER DRIVE BELTS

CHAIN

- ☐ Check for wear.
- ☐ Check the tension. If adjustment is necessary, align the MOTOR SPROCKET with the MAIN DRIVE SPROCKET.
- ☐ Lubricate if necessary.

BEARINGS, SPROCKETS, AND WORM GEARS

- ☐ Check for wear, and install new ones if necessary.

- ☐ Install new SPROCKETS if the teeth have sharp edges.
- ☐ Check the WORM GEARS for burrs.
- ☐ Rinse the WORM GEARS with a small amount of warm water.
- ☐ Lubricate only the BEARINGS and SPROCKETS if necessary.....do NOT lubricate the WORM GEARS.

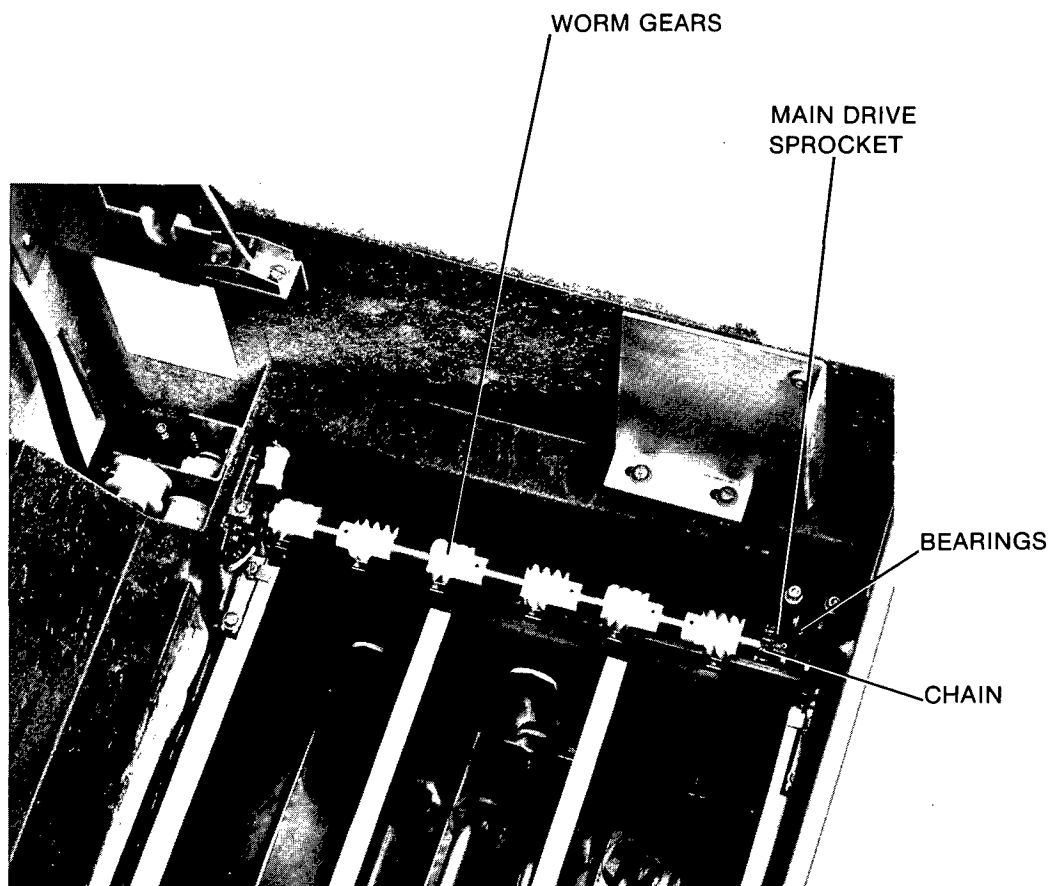


FIGURE 5-14

(R) PLUMBING CONNECTIONS

- ☐ Visually check all PUMP, VALVE, TUBING, and TANK connections for leakage.

Water

- ☐ Check the incoming water temperature: 4.5-26.5° C (40-80° F)
- ☐ To check the wash water rate:
 1. Drain the TANK.

2. With the WASH RACK installed, insert the WEIR and open the WATER VALVE to the maximum position.

For Serial No. 16000 processors and lower without Modification No. 3:

The TANK will fill to overflow in 85 seconds.

Flow rate: 5.7 litres/min
1½ gal/min

For Serial No. 16001 and above processors or 16000 and lower with Modification No. 3:

The TANK will fill to overflow in 2.5 minutes.

Flow rate: 3.8 litres/min
1 gal/min

- ☐ Check the incoming water supply and/or WATER SOLENOID AND FLOW CONTROL VALVE.

WATER SOLENOID
AND FLOW CONTROL VALVE

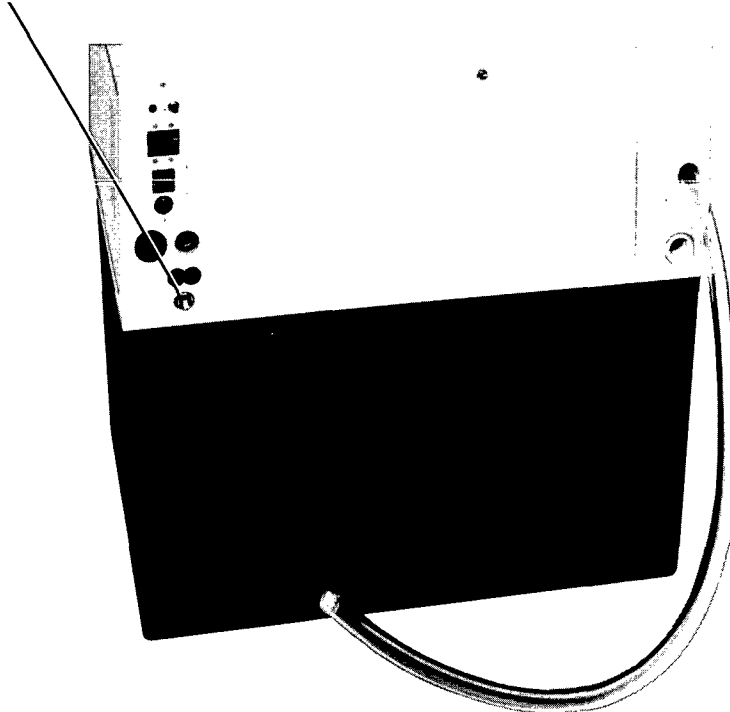


FIGURE 5-15

RECIRCULATION

RECIRCULATION PUMPS (see Figure 5-17)

- ☐ Actuate the PUMPS and check the agitation on the surface of the solutions.

NOTE

Always use the DRIP TRAY and the SPLASH GUARD when removing RACK ASSEMBLIES.

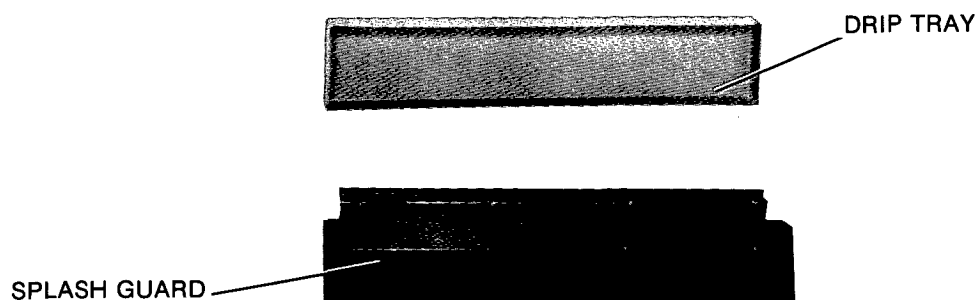


FIGURE 5-16

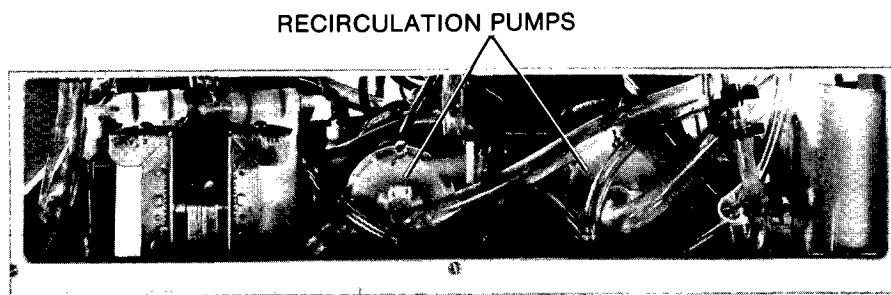


FIGURE 5-17

- ☐ Check the IMPELLER and SHAFT for cleanliness or wear. If there is no recirculation, check that the PUMP is operating. If the PUMP is not operating, see the Wiring Diagram.

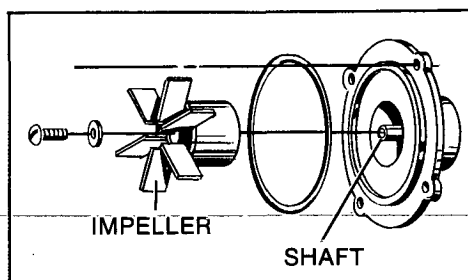


FIGURE 5-18

Developer

- Remove the DEVELOPER-FIXER CROSSOVER, actuate the PUMPS, and check agitation on the surface of the solutions.

Fixer

- Remove the FIXER-WASH CROSSOVER, actuate the PUMPS, and check the agitation on the surface of the solutions.

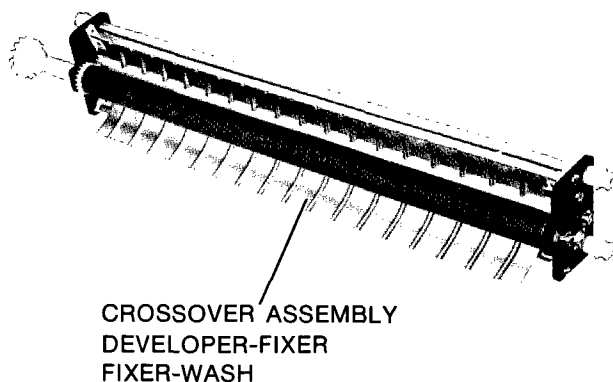


FIGURE 5-19

- Install a new FILTER at least once a month or after feeding approximately 5,000 films.

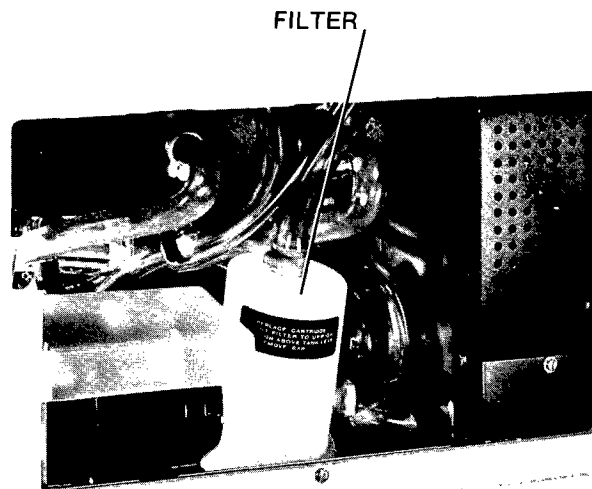


FIGURE 5-20

- With a THERMOMETER of known accuracy, check the developer solution in the processing tanks. Adjust POTENTIOMETER R2 if necessary.

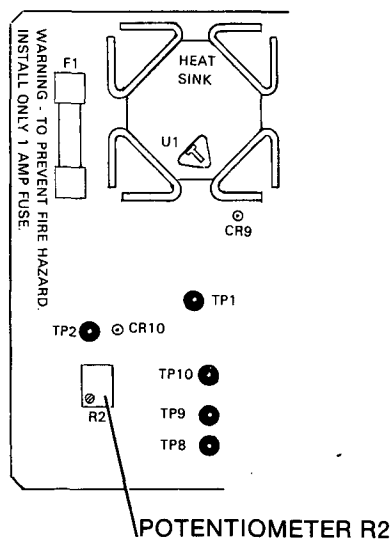


FIGURE 5-21

(R) CHEMICAL REPLENISHMENT

- ☐ Check the mixing of replenishment solution. Use the instructions included with the chemicals.
- ☐ To check the replenishment rates, see the Service Data, Section 2, Figure 2-9.

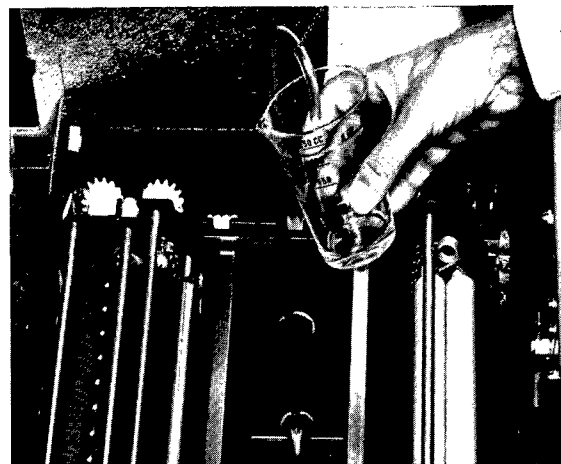


FIGURE 5-22

☐ "READY" LIGHT

On = developer below the correct operating temperature.

Flickering = within $\pm 0.2^{\circ}\text{C}$ ($\pm 0.3^{\circ}\text{F}$) of the correct temperature.

Off = developer above the correct operating temperature.

Fixer

- ☐ When new solutions are added, clean the system with warm water.

READY
LIGHT

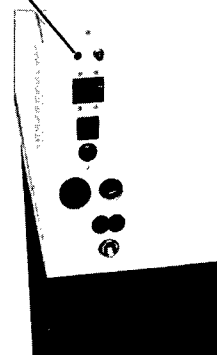


FIGURE 5-23

(R) ELECTRICAL

Automatic Standby Control

- Check that the processor goes into the standby cycle after reaching the operating temperature. The DRIVE MOTOR, DRYER BLOWER, and DRYER HEATER will cycle on and off.
- Feed a sheet of film. Check the clear mode. Approximately 3 minutes after the film leaves the DETECTOR CROSSOVER ASSEMBLY (and the DRYER is at operating temperature), the processor will go in the standby mode.

NOTE

The PUMP operates for an additional 4 seconds after the DETECTOR SWITCHES de-energize.

WARNING

Dangerous Voltage

Before you do any adjustment, installation, and/or removal of any electrical parts, DISCONNECT THE MAIN POWER. Electrical adjustments are to be made by qualified personnel only.

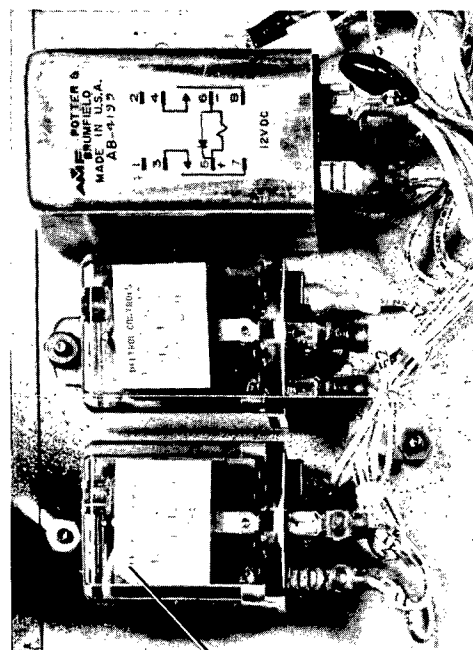
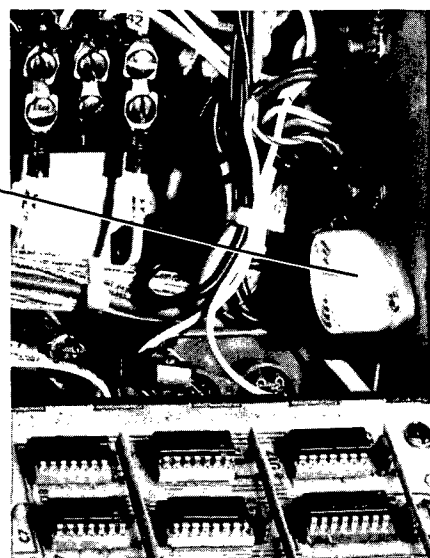
Time-Delay Circuit

- Check the operation. Momentarily actuate either of the DETECTOR SWITCHES. Film-feed signal buzzer will sound approximately 4 seconds after the DETECTOR SWITCH de-energizes. If the BUZZER DS1 does not sound, check the Diagnostic Procedures in Section 3.

Safelight

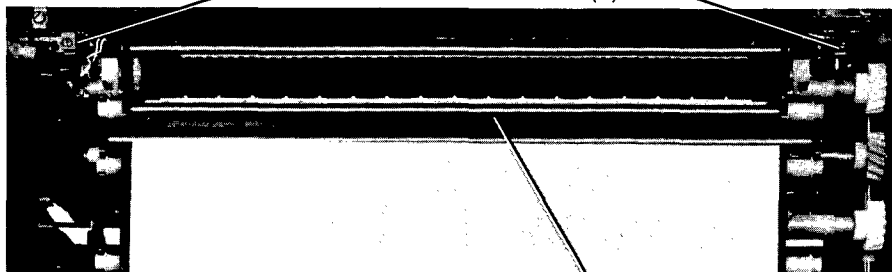
- Check the operation of the SAFELIGHT. If the SAFELIGHT is not operating correctly, check the RELAY K3.

BUZZER DS1



RELAY K3

DETECTOR SWITCH ASSEMBLY (2)
DETECTOR SWITCHES (2)



DETECTOR CROSSOVER ASSEMBLY

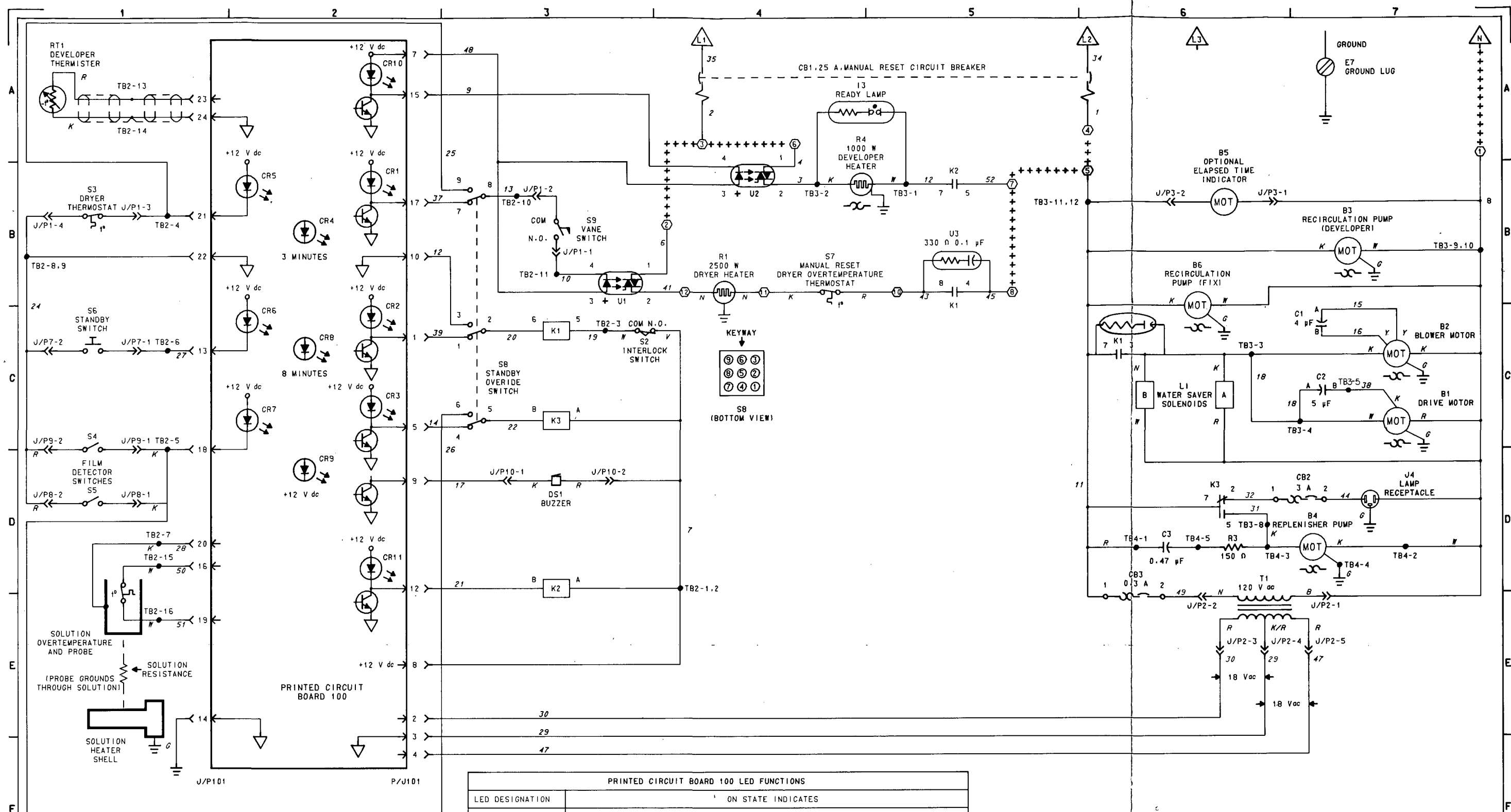
FIGURE 5-24

SECTION 6 MODIFICATIONS

Insert all MODIFICATION INSTRUCTIONS in this section.

SECTION 7 DIAGRAMS

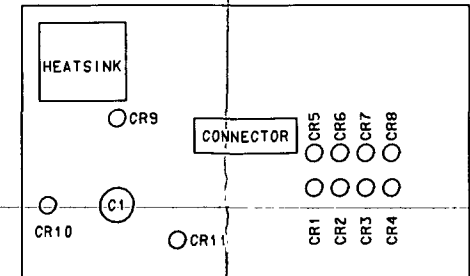
Figure	Title	Page
7-1	Wiring Diagram for the <i>KODAK RP X-OMAT</i> PROCESSOR, MODEL M7B	7-2
7-2	Circuit Diagram for the <i>KODAK RP X-OMAT</i> PROCESSOR, MODEL M7B	7-3
7-3	Circuit Diagram for the 100 PCB of the <i>KODAK RP X-OMAT</i> PROCESSOR, MODEL M7B, Sheet 1 of 2	7-5
7-4	Circuit Diagram for the 100 PCB of the <i>KODAK RP X-OMAT</i> PROCESSOR, MODEL M7B, Sheet 2 of 2	7-7



NOTES:

- 1 DENOTES TERMINALS ON TB5
- 2 DENOTES TERMINALS ON TB1
- 3 +++ DENOTES CONNECTIONS TO TB1 TERMINALS AS SHIPPED FROM FACTORY. FOR OTHER ELECTRICAL POWER SERVICES SEE TRANSFORMER ACCESSORY KIT.
- 4 *SLANTED TEXT* 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, WATER SOLENOID ON)
CR3	RELAY K3 ENERGIZED (REPLENISH PUMP RUNNING, ACCESSORY OUTLET OFF)
CR4	3 MINUTE TIMER ON (FILM CLEAR TIME)
CR5	SWITCH S3 IS CLOSED (DRYER THERMOSTAT CALLING FOR HEAT)
CR6	SWITCH S6 IS CLOSED (STANDBY BUTTON DEPRESSED)
CR7	SWITCHES S4 AND/OR S5 ARE CLOSED (FILM IN ENTRANCE ROLLERS)
CR8	BLINKS (1 SECOND ON, 1 SECOND OFF) WHEN 8 MINUTE TIMER IS ON (STANDBY TIME) 12 Vdc AVAILABLE ON PRINTED CIRCUIT BOARD (ALWAYS ON UNDER NORMAL OPERATION)
CR9	
CR10	SOLID STATE RELAY U2 IS ENERGIZED (DEVELOPER HEATER ON)
CR11	RELAY K2 IS ENERGIZED (ALWAYS ON UNDER NORMAL OPERATION)



APPROXIMATE LOCATIONS OF LED'S ON PRINTED CIRCUIT BOARD 100

FIGURE 7-2 Circuit Diagram for the KODAK RP X-OMAT PROCESSOR, MODEL M7B.

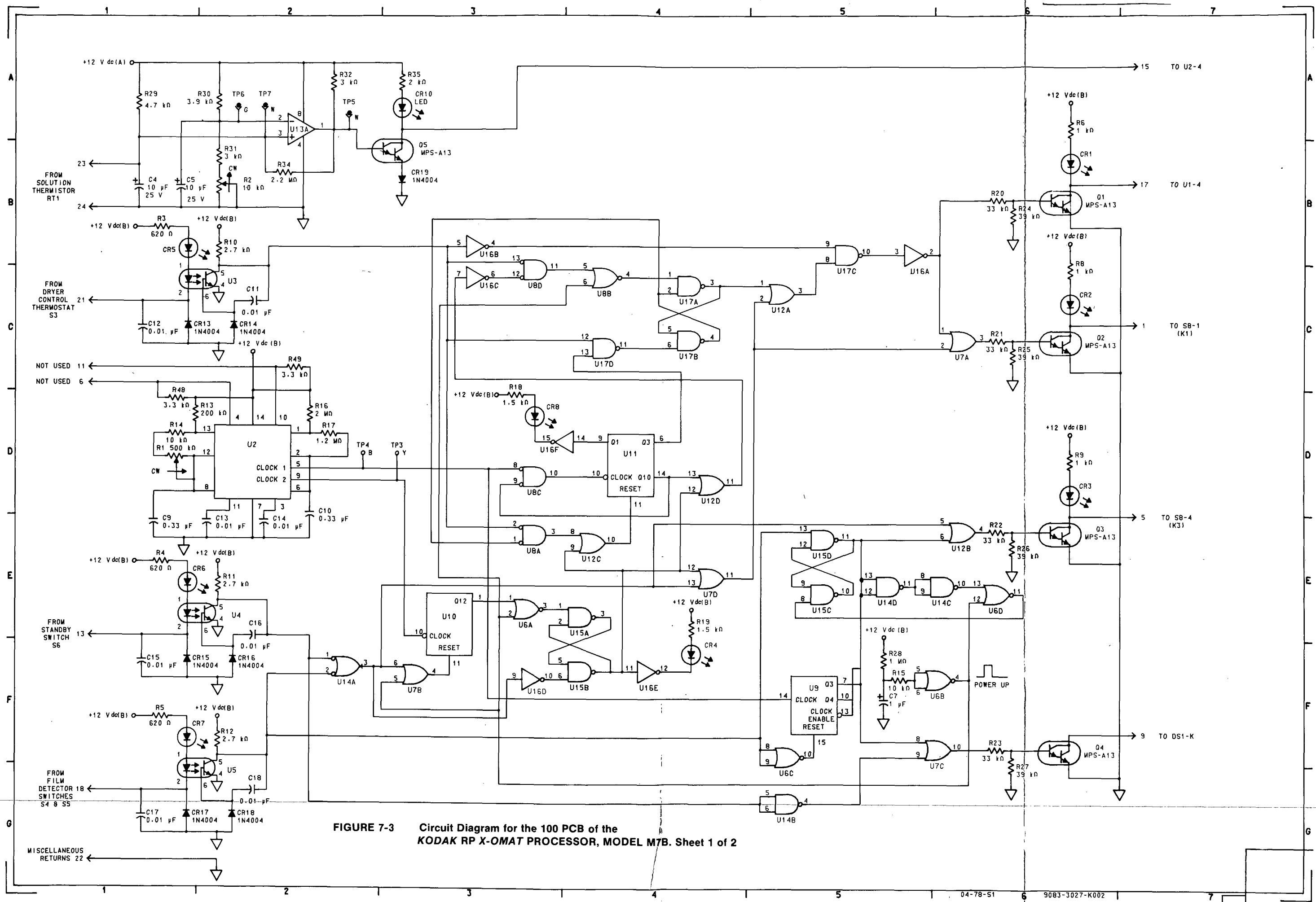


FIGURE 7-3 Circuit Diagram for the 100 PCB of the KODAK RP X-OMAT PROCESSOR, MODEL M7B. Sheet 1 of 2

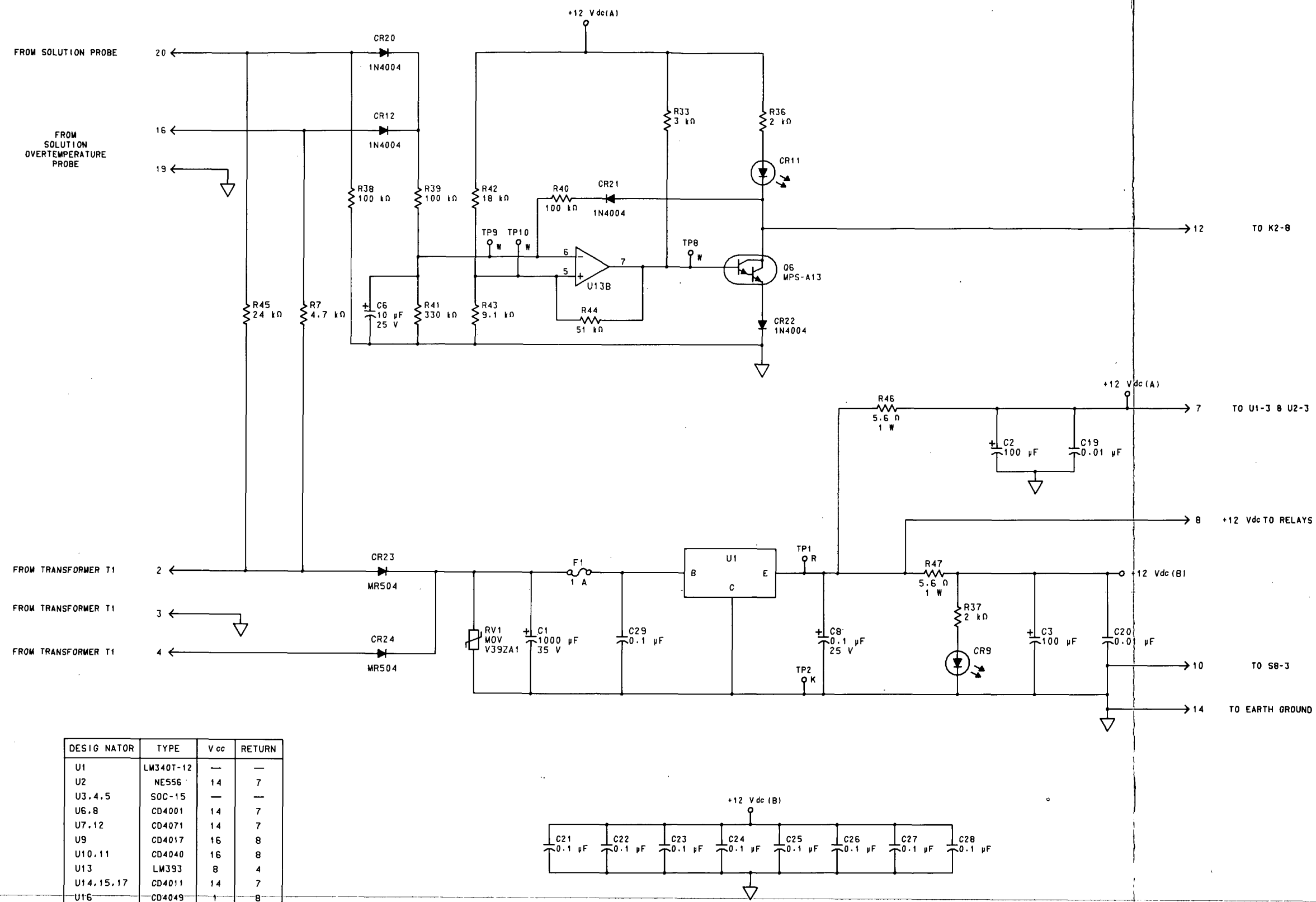


FIGURE 7-4 Circuit Diagram for the 100 PCB of the KODAK RP X-OMAT PROCESSOR, MODEL M7B. Sheet 2 of 2

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