

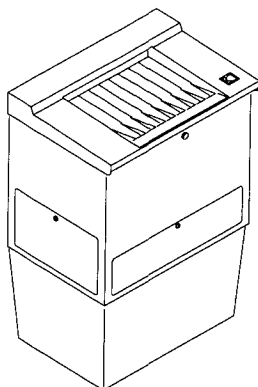
*Installation Instructions*

*Publication Part No. 1C0590*

*9/93*

*Supplement to 1C0935*

*9/93*



KODAK  
RPX-GMANT  
PROCESSOR  
MODEL M17/B-E



HEALTH SCIENCES

#### PLEASE NOTE

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#### WARNING

To avoid hazardous conditions, keep floors and floor coverings around your *Kodak X-Omat* Processor and associated drains clean and dry at all times. Any accumulation of fluids from mixing tanks, drain lines, etc., should be cleaned up immediately. In the event of an accumulation of liquid due to backup, overflow, or other malfunction of the drain associated with your *X-Omat* Processor, call a plumber or other contractor to correct any problem with your drain. Kodak accepts no responsibility or liability whatsoever for the serviceability of any drain connected to or associated with a *Kodak X-Omat* Processor. Such drains are the sole responsibility of the customer.

#### CAUTION

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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## Introduction

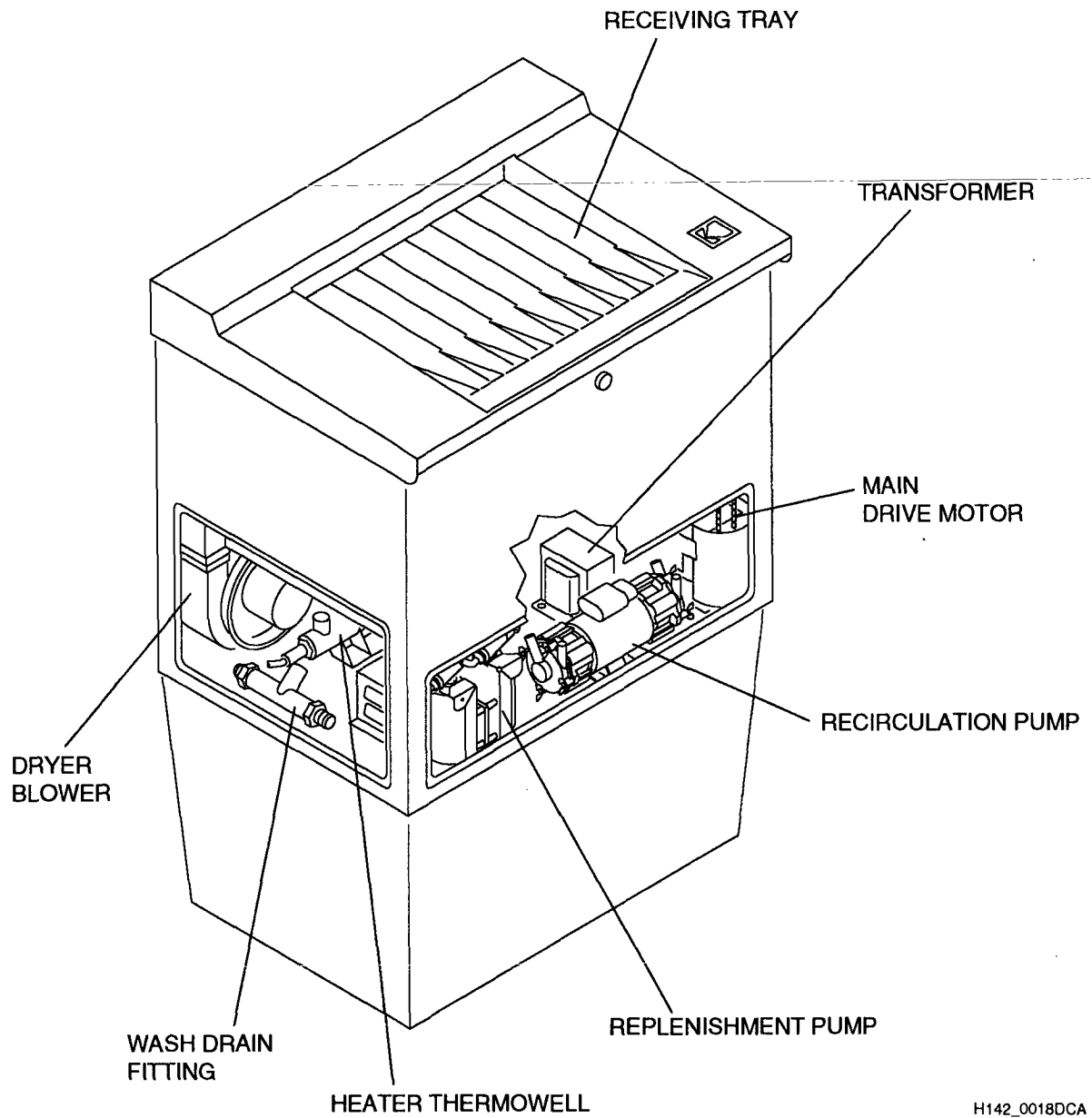
### IMPORTANT

Installation of the *Kodak RP X-Omat* Processor, Model M7B-E is similar to that of the *Kodak RP X-Omat* Processor, Model M7B. The following items describe the differences between the 2 PROCESSORS:

- The built-in TRANSFORMER allows the M7B-E to operate at different voltages, by changing the configuration of the JUMPERS in the ELECTRICAL BOX.
- EMI FILTERS have been added to meet safety agency limits.
- The M7B-E has 3 separate drain lines for processor effluents.
- To accommodate the additional drain line, one of the wall MOUNTING BRACKETS has been eliminated.
- Water input has been changed to provide a 25 mm air gap.
- The recirculation system has a 230 V dual-head RECIRCULATION PUMP.
- Minimum plumbing changes are indicated in the Parts List for the Model M7B-E.
- The M7B-E has a separate "Diagram Package".
- An EXHAUST GUARD has been added to the INNER HOUSING of the EXHAUST ADAPTER.

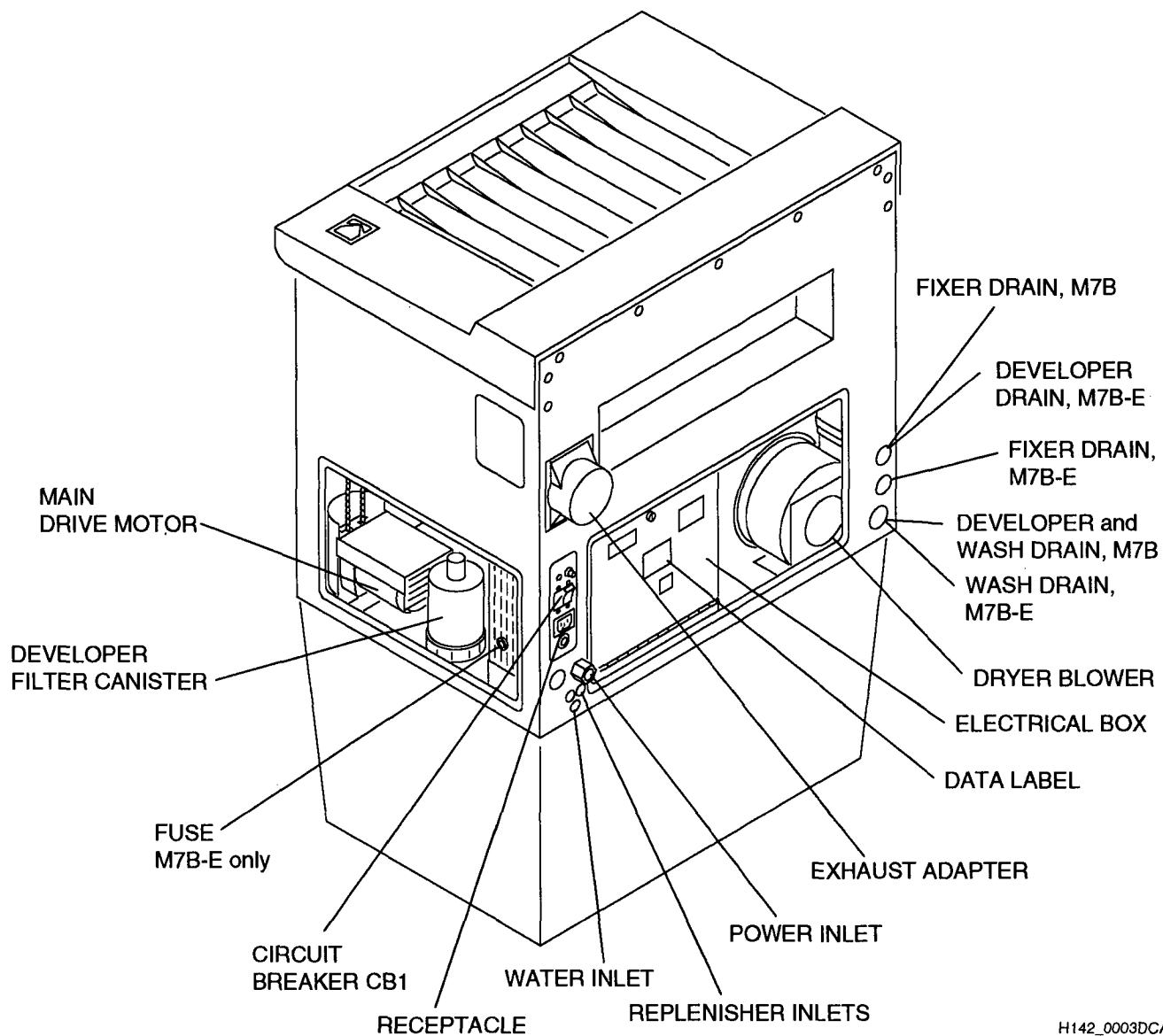
### NOTE

This Installation Instructions provides only the procedures for the M7B-E that are different from the Model M7B. Use this publication with the Installation Instructions for the Model M7B to install the PROCESSOR.



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H142\_0018DA

**Receiving-End View**



H142\_0003DCA  
H142\_0003DA

**Feed-End View**

## Connecting the Processor

### Making the Plumbing Connections

#### Connecting the Drains

The developer, fixer, and water overflow solutions are separated and exit from the PROCESSOR through 3 separate DRAINS. The same DRAINS are used to drain the solutions from the PROCESSOR.

#### **WARNING**

- Drains must be made of chemically resistant, non-corrosive material. Use PVC or equivalent.
- The Drain must have a minimum diameter of 7.6 cm (3 in.) and be free of obstruction.
- Drain service must comply with all local codes.

- [1] On the feed-end of the PROCESSOR, connect the 3 HOSES to the DEVELOPER, FIXER, and WASH DRAINS. Route the HOSES as necessary.

#### **IMPORTANT**

Do not make a solid connection between the WASH DRAIN and the FLOOR DRAIN.

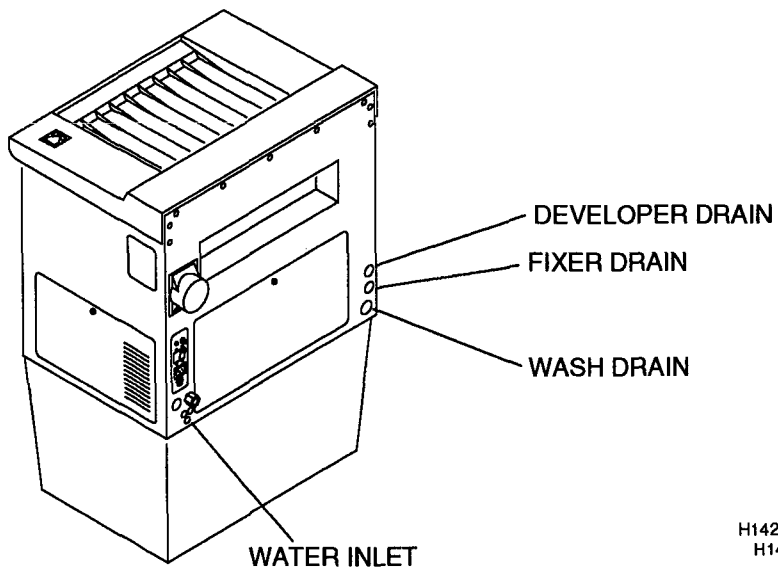
- [2] Route the wash water directly to the FLOOR DRAIN.

#### Connecting the Water

#### **IMPORTANT**

Before connecting the water, see the "Site Specifications" for information about water pressure and materials.

- [1] Install the plumbing to the WATER INLET.



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H142\_0007BA

## Making the Electrical Connections

- [1] Determine the customer's electrical service. See the table.

**Table 1 Service Options**

<b>Voltage Volts</b>	<b>Frequency Hz</b>	<b>Service</b>
200	50/60	2-wire, single phase, plus earth ground
100/200	50/60	3-wire, single phase, plus earth ground
200	50/60	3-wire, 3-phase, delta, plus earth ground
220	50/60	2-wire, single phase, plus earth ground
110/220	60	3-wire, single phase, plus earth ground
230	50	2-wire, single phase, plus earth ground
240	50	2-wire, single phase, plus earth ground
127/220	50	3-wire, 3-phase, wye, plus earth ground
220/380	50	3-wire, 3-phase*, wye, plus earth ground
230/400	50	3-wire, 3-phase*, wye, plus earth ground
240/415	50	3-wire, 3-phase*, wye, plus earth ground
127/220	50	4-wire, 3-phase, wye, plus earth ground
220/380	50	4-wire, 3-phase, wye, plus earth ground
230/400	50	4-wire, 3-phase, wye, plus earth ground
240/415	50	4-wire, 3-phase, wye, plus earth ground

### NOTE

\*L1, L2, and NEUTRAL used in this configuration are sometimes referred to as single-phase connections.

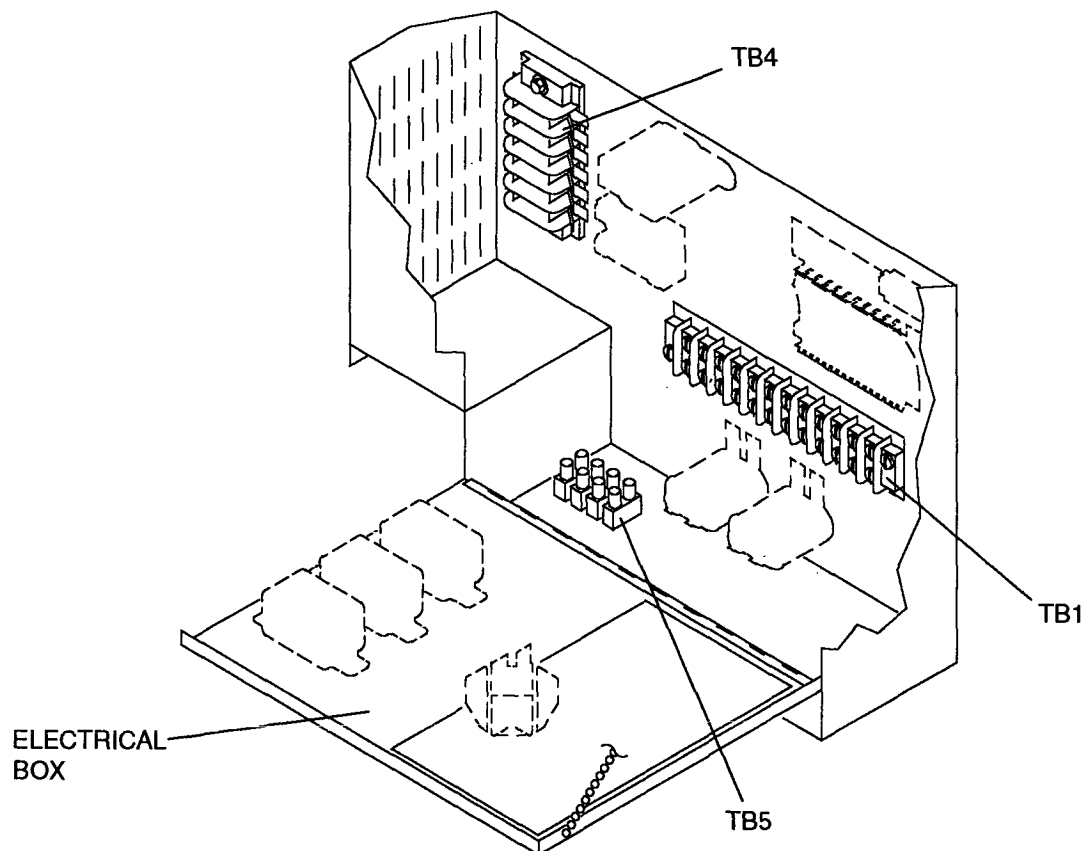


## Connecting the Jumpers

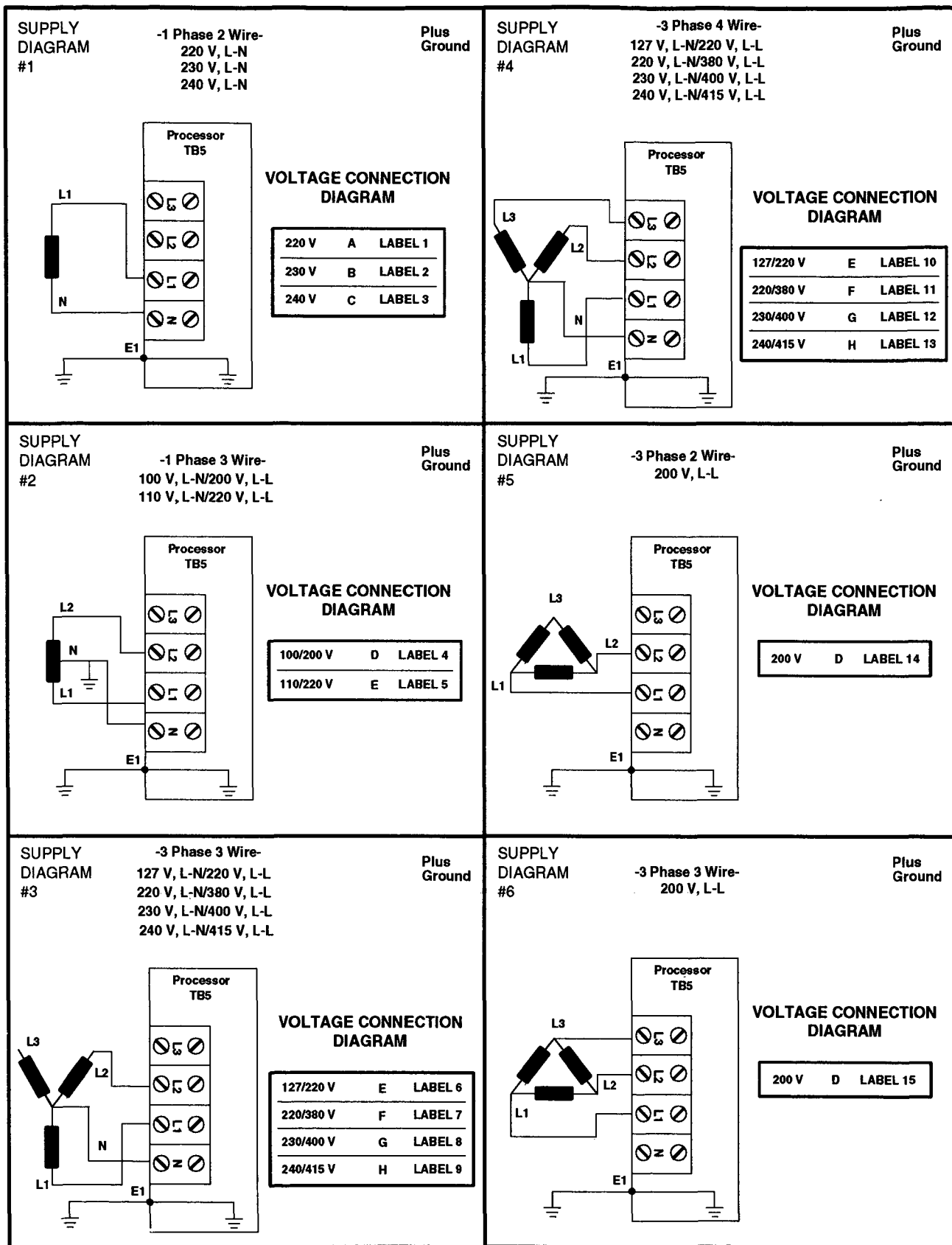
- [1] Open the ELECTRICAL BOX.
- [2] Determine the supply voltage to be applied to the PROCESSOR.
- [3] Connect the JUMPERS to TB1 and TB4. See the "Voltage Connection Diagrams" and the "Jumper Configurations for Power Connections" on pages 11 - 14.
- [4] Apply the correct POWER LABEL to the DATA PLATE.

### NOTE

The POWER LABELS are identified in the Connection Tables.

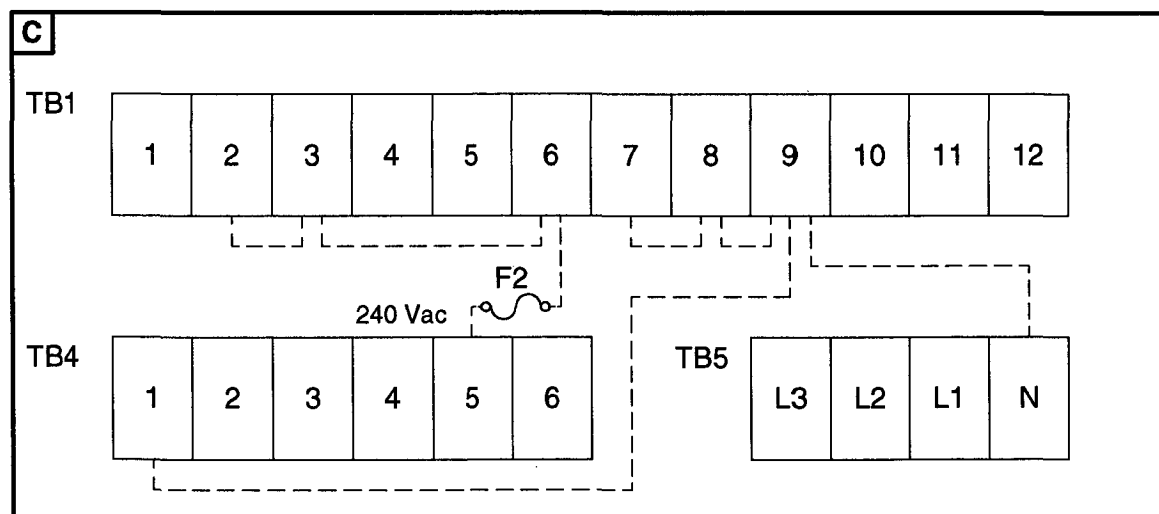
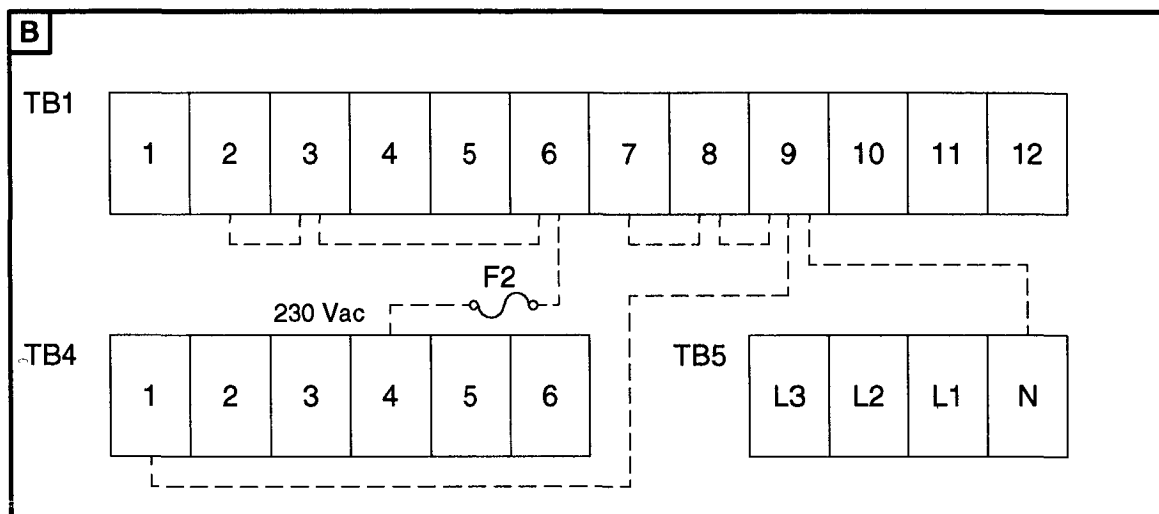
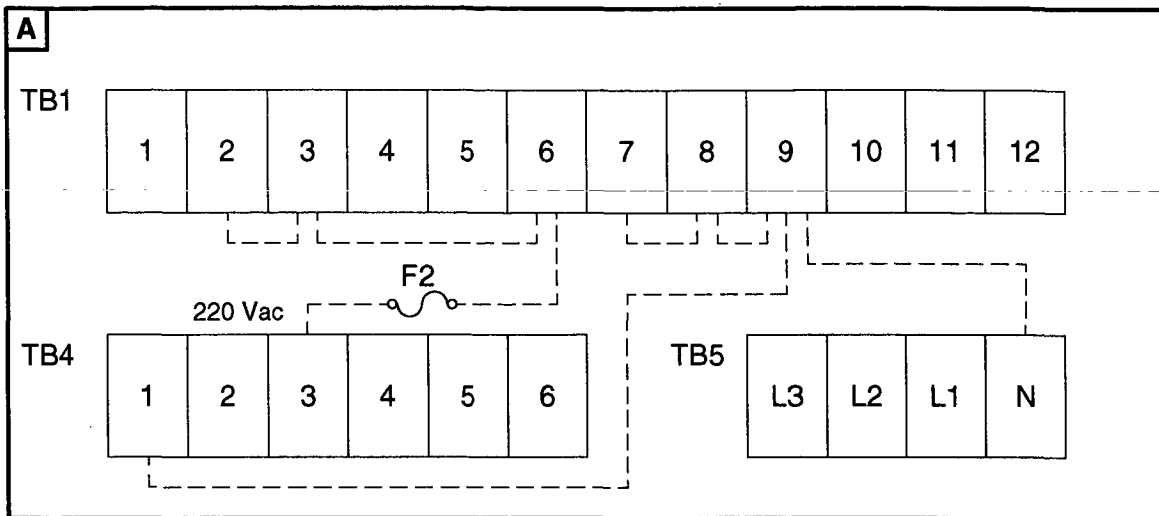


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H142\_0005HC



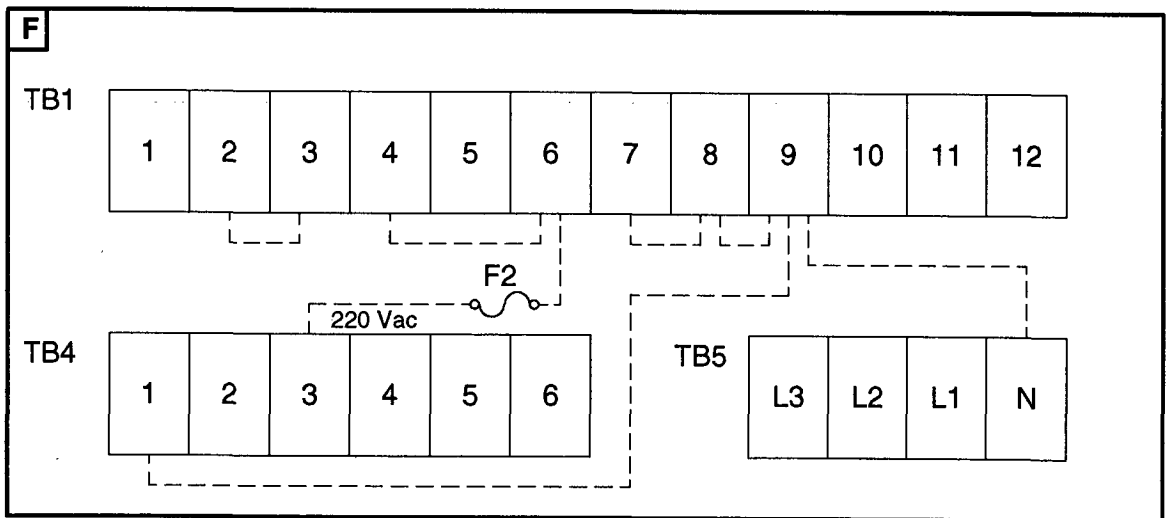
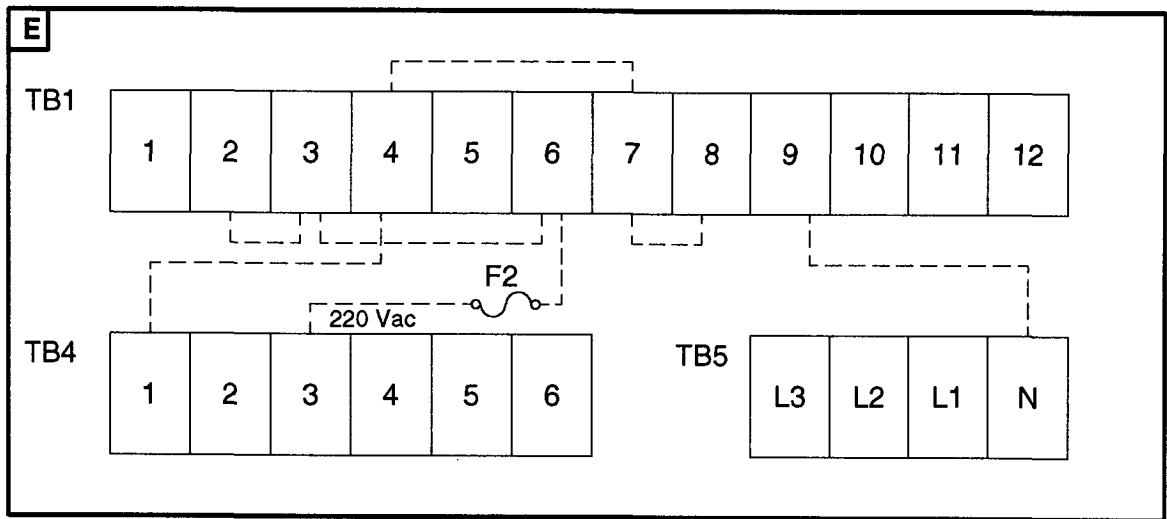
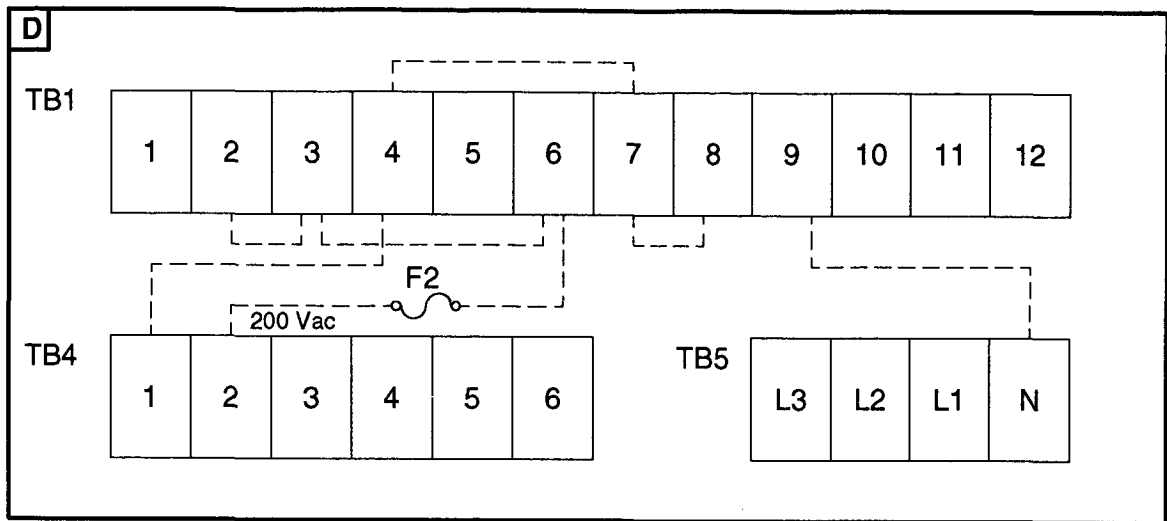
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## Voltage Connection Diagrams



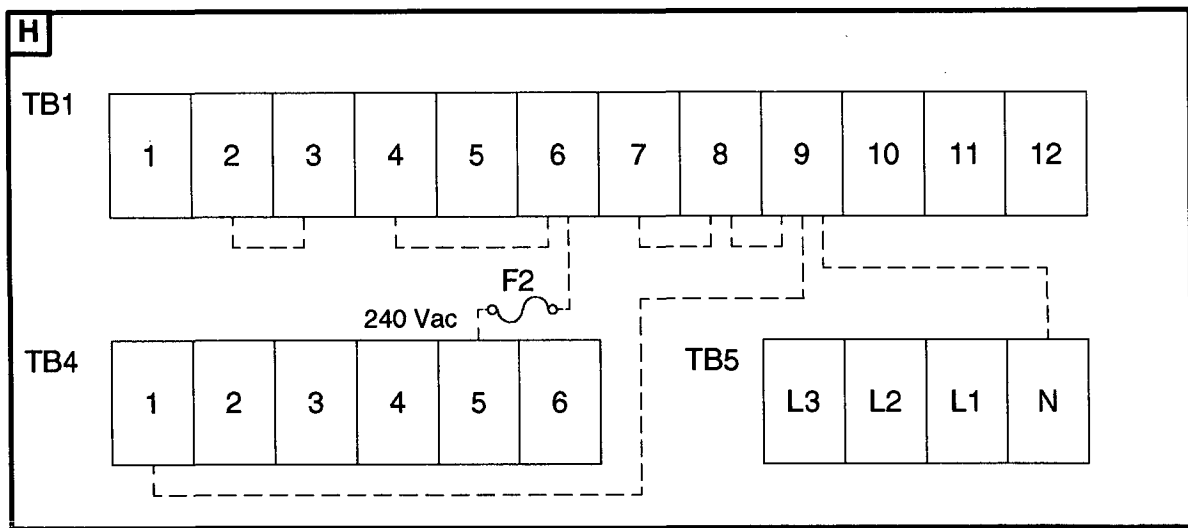
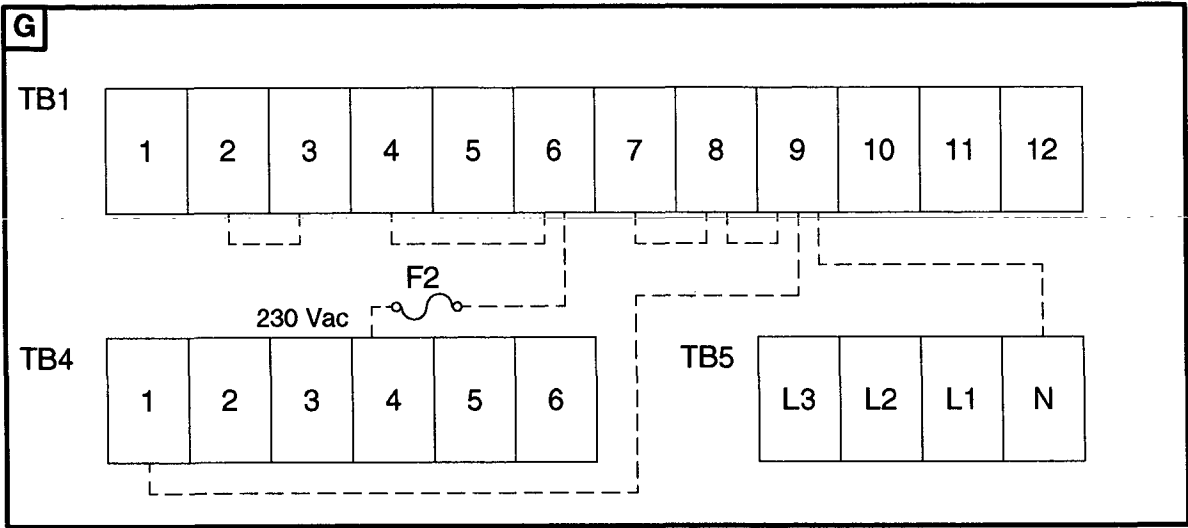
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### Jumper Configurations for Power Connections



H142\_9003EC

### Jumper Configurations for Power Connections



H142\_9004DC

### Jumper Configurations for Power Connections

## Connecting the Main Power

### **WARNING**

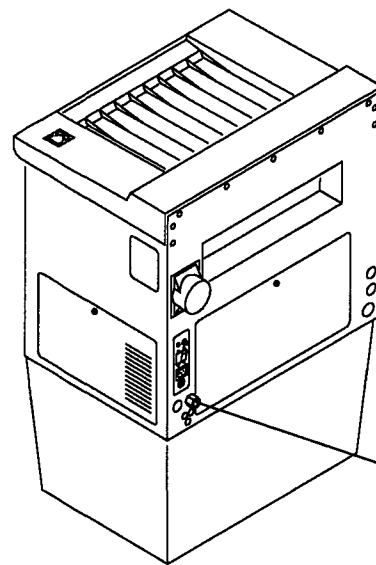
#### Dangerous Voltage

- [1] Check that the wall POWER SWITCH is in the "OFF" position.

### **IMPORTANT**

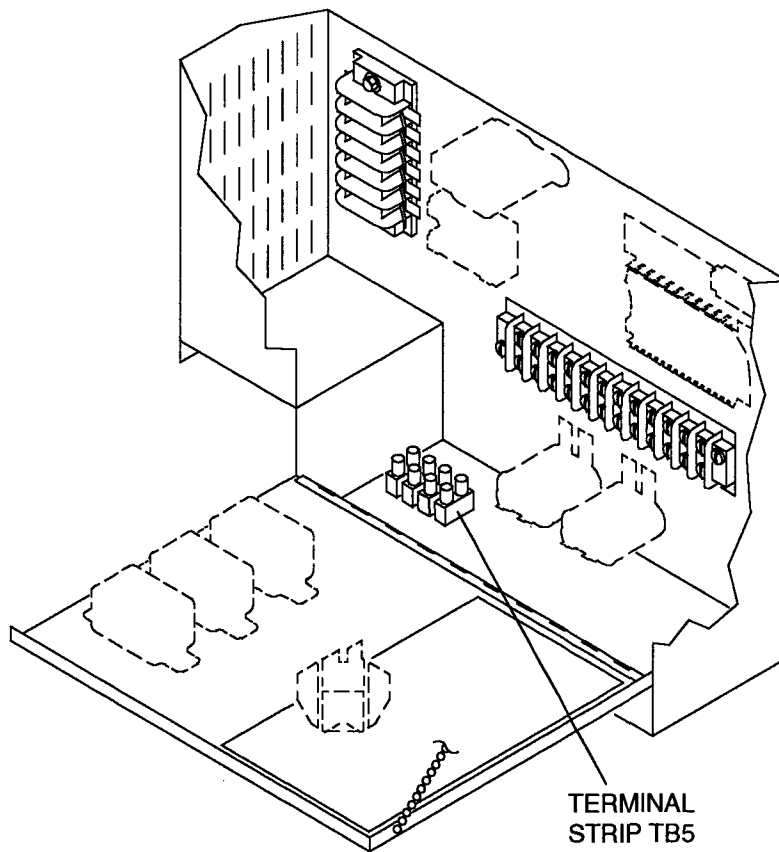
Wiring must meet all local codes.

- [2] Connect the main input wires, through the POWER INLET, to TERMINAL STRIP TB5 and to ground. See the "Voltage Connection Diagrams" on page 11.



POWER  
INLET

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H142\_0007AA



TERMINAL  
STRIP TB5

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H142\_0005HC

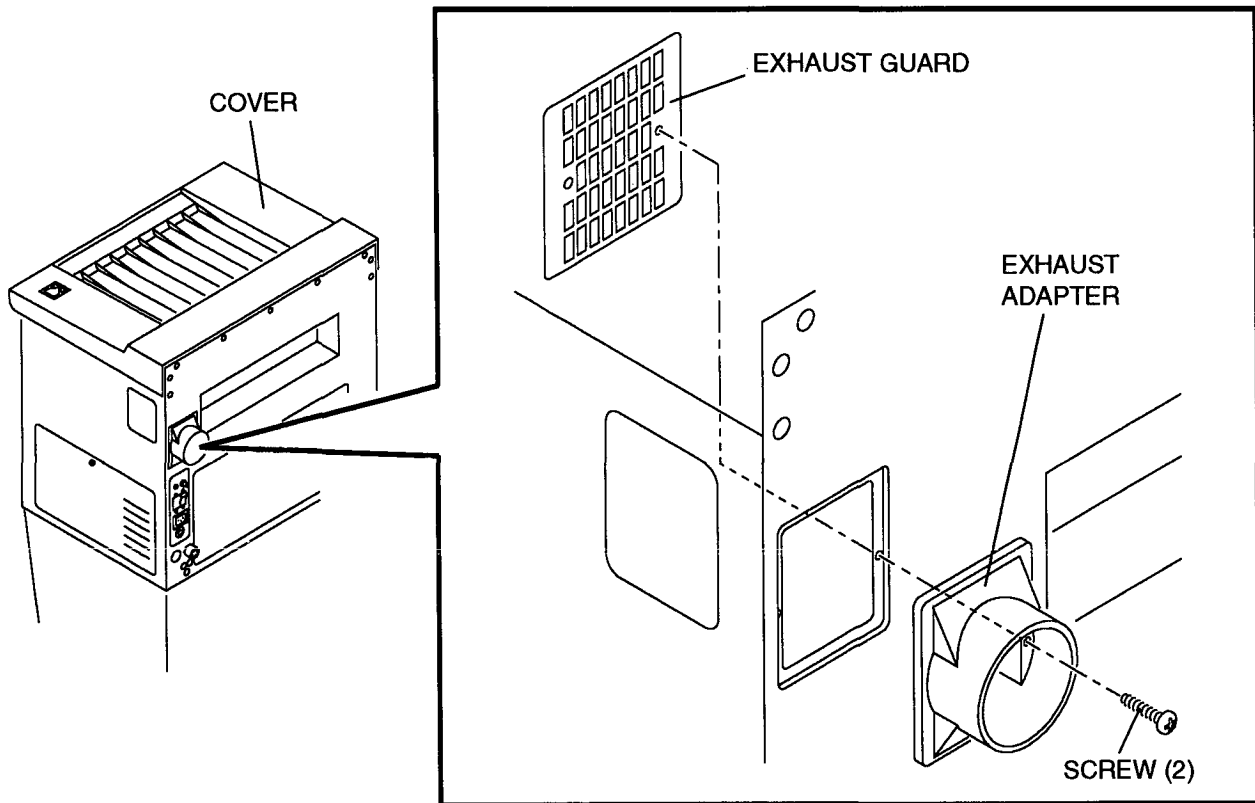
## Installing the Exhaust Adapter

- [1] Deenergize the PROCESSOR.
- [2] Lift the COVER and the DRYER ASSEMBLY.
- [3] Install the EXHAUST ADAPTER and the EXHAUST GUARD. Use the 2 SCREWS provided.

### NOTE

Use either position to install the EXHAUST ADAPTER.

- [4] Make the exhaust connections. See the procedure beginning on page 17.

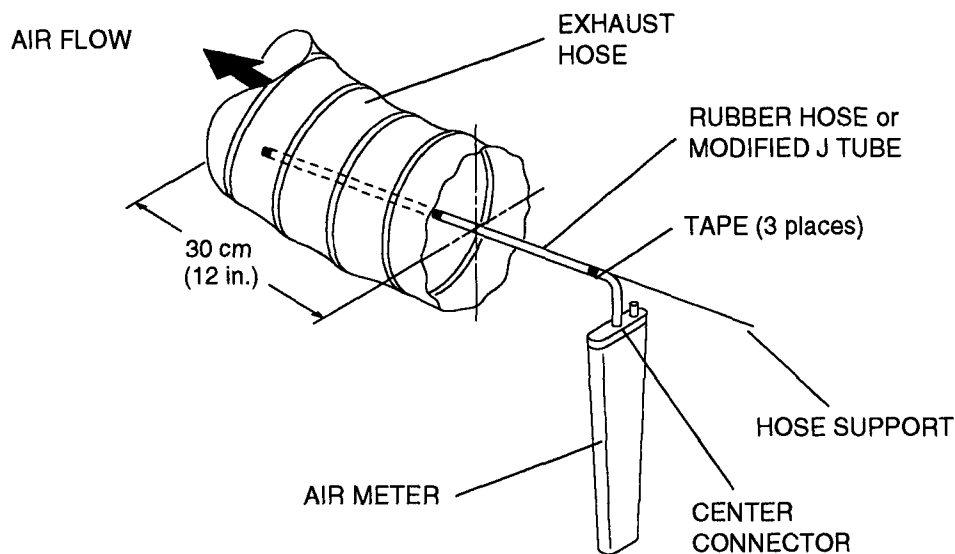


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H142\_0020HA

## Making the Exhaust Connections

Do the following procedure, using an AIR METER, Kodak Part No. TL-2431, to check that the venting is correct.

- [1] If the PROCESSOR is installed, deenergize the PROCESSOR.
- [2] Disconnect the EXHAUST HOSE from the EXHAUST ADAPTER.
- [3] Place the RUBBER HOSE on the CENTER CONNECTOR of the AIR METER.



P048\_0118BCA  
H048\_0118BA

- [4] If a replenishment J TUBE, Part No. 592380, is available, do the following. If not, advance to step 5.
  - (a) Cut and discard the curved end of the replenishment J TUBE.
  - (b) Install the tapered end of the replenishment J TUBE into the RUBBER HOSE.
  - (c) Advance to step 7.
- [5] If a replenishment J TUBE is not available, align a HOSE SUPPORT, such as a straightened coat hanger, next to the RUBBER HOSE. The ends of the HOSE SUPPORT and the RUBBER HOSE must be together.
- [6] Place TAPE around the HOSE SUPPORT and the RUBBER HOSE at 3 points. See the graphic.

### IMPORTANT

- The TAPE should not inhibit the air flow through the RUBBER HOSE.
  - The RUBBER HOSE or J TUBE must be in the center of the EXHAUST DUCT.
- [7] Insert the replenishment J TUBE or the RUBBER HOSE into the EXHAUST HOSE until the end is 30 cm (12 in.) from the end of the EXHAUST HOSE.
  - [8] Hold the AIR METER vertically, and record the average of several readings.



- [9] If a solid metal or rigid plastic DUCT is attached to the PROCESSOR preventing easy removal, do the following:
- Make a small hole, in the DUCT, approximately 30.5 cm (12 in.) from the venting connection of the PROCESSOR.
  - Insert the L TUBE, provided with the AIR METER, through the hole.

#### NOTE

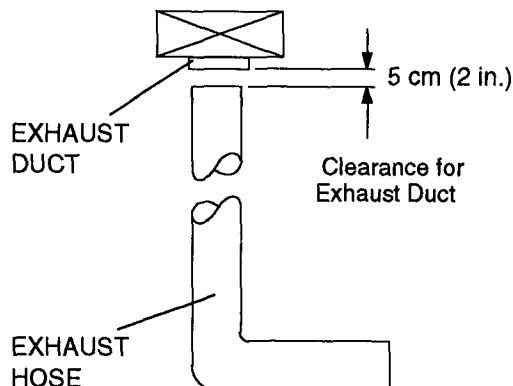
When measuring negative air, the opening of the TUBE should point in the direction of the air flow away from the PROCESSOR.

- [10] Compare the average reading with the table:

**Table 2 Measuring the Static Pressure**

Duct Diameter	Negative Static Pressure, Water Head	
	MIN	MAX
7.6 cm (3 in.)	0.76 mm (0.03 in.)	1.02 mm (0.04 in.)
10.2 cm (4 in.)	0.25 mm (0.01 in.)	0.51 mm (0.02 in.)

- [11] Adjust one of the following to obtain the required reading:
- the damper (or fan) in the building ventilation system or
  - the clearance between the EXHAUST DUCT and the EXHAUST HOSE to 5 cm (2 in.). See the graphic.



- [12] If the air flow reading is still not correct, the customer may consider the installation of the Kodak Auxiliary Ventilation Fan Kit, Part No. 264503.
- [13] When the air flow reading is the same as the measurements in the table, connect all the HOSES.
- [14] If the PROCESSOR has been installed, install the COVERS and PANELS on the PROCESSOR.

H104\_0005ACA  
P104\_0005AA

#### IMPORTANT

- To obtain optimum results from the venting, instruct the customer that all COVERS and PANELS must be installed while the PROCESSOR is energized.
- If the PROCESSOR is installed through the darkroom wall, it is most important that the air pressure in the darkroom is greater than the air pressure of the area surrounding the darkroom.
- Air in a 27 m<sup>3</sup> (1000 ft<sup>3</sup>) room should change 10 times each hour, including 2 exchanges of outside air.

[15] Do the following to check the air flow at the FEED SHELF:

- (a) If the PROCESSOR is installed, deenergize the PROCESSOR.
- (b) Hold a piece of tissue paper in front of the FEED SHELF.

**NOTE**

The air flow should be **toward** the PROCESSOR.

- (c) If the tissue paper moves away from the PROCESSOR:  
Call Kodak, Health Sciences Division, Imaging Service Center  
Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern time  
(716) 724-1789. Select option "1".

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