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## **Document—**

# **Instructions for Retrofit Kit KUMSSRPS01 Replacement 24 Volt Power Supply for Milnor Single Stage Presses**

## Instructions for Retrofit Kit KUMSSRPS01 Replacement 24 Volt Power Supply for Milnor Single Stage Presses

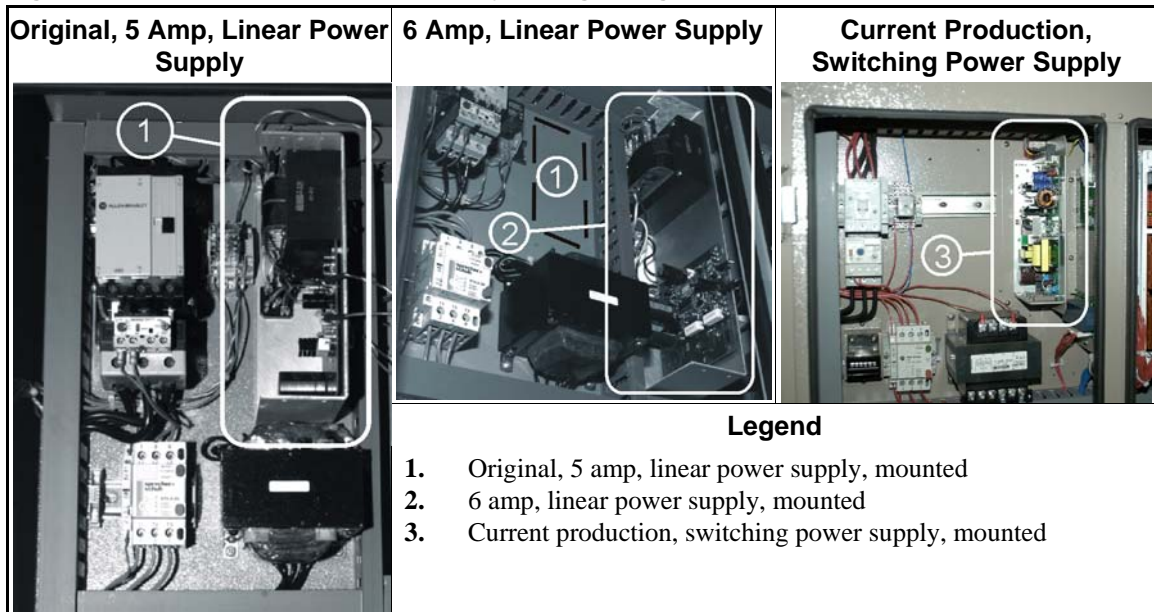
The replacement power supply provided with this kit is a switching type and has been found to provide more reliable service than either of the linear type power supplies previously used on these machines. Each of the three types that have been used on various vintage machines, are shown in [Figure 1](#). Regardless which type you are replacing, you can use this unit by matching the corresponding connection points on the old and new units. Extra wire and butt splices are provided in the kit, but these may not be needed, depending on the specific machine.



**WARNING 1: Electrocution and Electrical Burn Hazards**—Contact with electric power can kill or seriously injure you. Electric power is present inside the cabinetry unless the main machine power disconnect is off.

- Lockout/tagout power at the main machine disconnect switch before performing this work.

Figure 1: Evolution of 24 Volt Power Supply in Single Stage Presses



### 1. Matching Connections

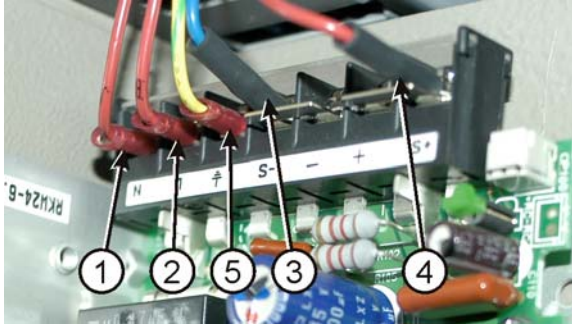
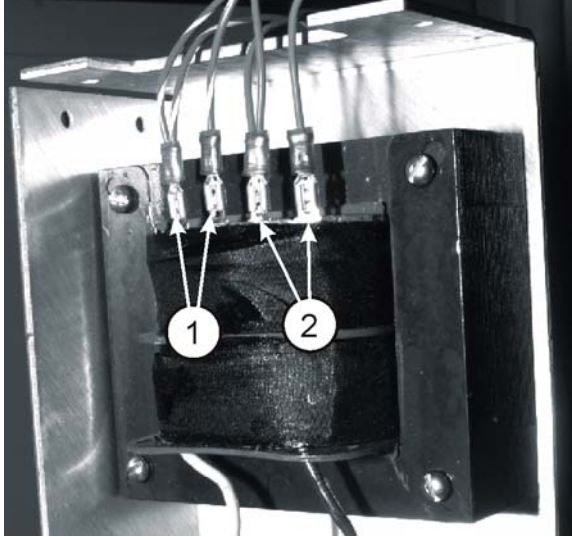
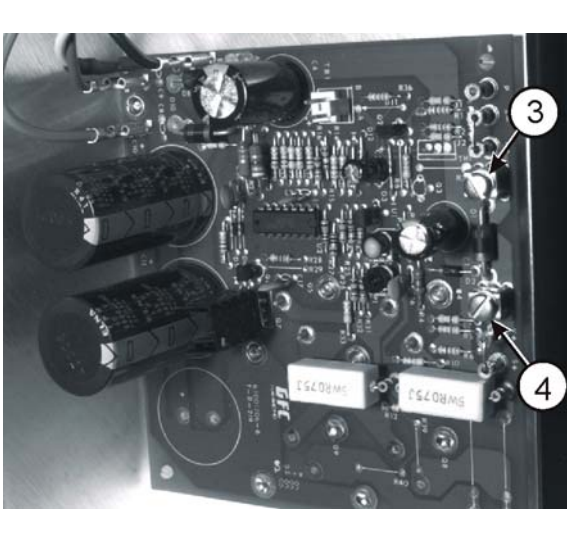
Regardless of type, each 24 volt power supply has the following connections:

- 120 VAC in, neutral
- 120 VAC in, line
- 24 VDC out, negative
- 24 VDC out, positive

**Note 1:** The replacement power supply also requires a ground connection. The older types relied on direct chassis grounding through the mounting screws.

The replacement power supply has a single terminal strip where all connections are made. Both of the previous types have connection points on the transformer as well as on the printed circuit board. Refer to [Figure 2](#) for how to match up the connection points on any of the possible types of power supplies you may be working with.

**Figure 2: Corresponding Connection Points for All Possible Power Supply Types**

Terminal Strip on Replacement Power Supply Provided with Kit	Legend
	<ol style="list-style-type: none"> <li>1. 120 VAC in, neutral. Two locations on older power supplies.</li> <li>2. 120 VAC in, line. Two locations on older power supplies.</li> <li>3. 24 VDC out, negative.</li> <li>4. 24 VDC out, positive.</li> <li>5. Chassis ground. On the replacement power supply, connect the other end to any convenient chassis ground in the electric box.</li> </ol>
Voltage In Connection Points on Transformer—Both Older Types	Voltage Out Connection Points on Printed Circuit Board—Both Older Types
	

## 2. Installing the Replacement Power Supply

1. Label, then remove the wires from the old power supply. Label the wires as to function (e.g., "120 VAC in, neutral").
2. Remove the old power supply.
3. Determine whether the replacement power supply will require new mounting holes by holding it approximately in the position shown in [Figure 1](#) (right hand photo).
4. Mark and drill mounting holes as required.
5. Mount the new power supply.
6. Connect the wires removed from the old power supply to the corresponding pins on the new unit, per [Figure 2](#). Use wires and connectors provided with the kit as required.
7. Restore power and test.

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