

Model A & A-2 Pinsetters Solid State Magnetic Clutch Power Supply

Packaging

- 1 ea. 12-860030-000 Package - Magnetic Clutch Power Supply
- 1 ea. 12-752204-000 Magnetic Clutch Power Supply Assy.
- 1 ea. 12-902074-000 Instruction Sheet

Tools Required

- 3/8" Wrench
- 1/4" Wrench or Nut Driver
- Wire Cutters
- Standard and Small Slotted Screw Drivers
- Small Phillips Screw Driver
- Pliers
- Wire Stripping Tool

Installation Instructions



WARNING! Remove power to the pinsetter by turning off the circuit breaker and unplugging the main power cord to the electrical box.



CAUTION! Inspect and replace any brittle, damaged or below specification wiring.

1. Remove the selenium rectifier and capacitor from the electrical box. Cut the wires soldered to the rectifier as close as possible to the terminals to retain maximum wire length to facilitate an easier installation of the new circuit board.

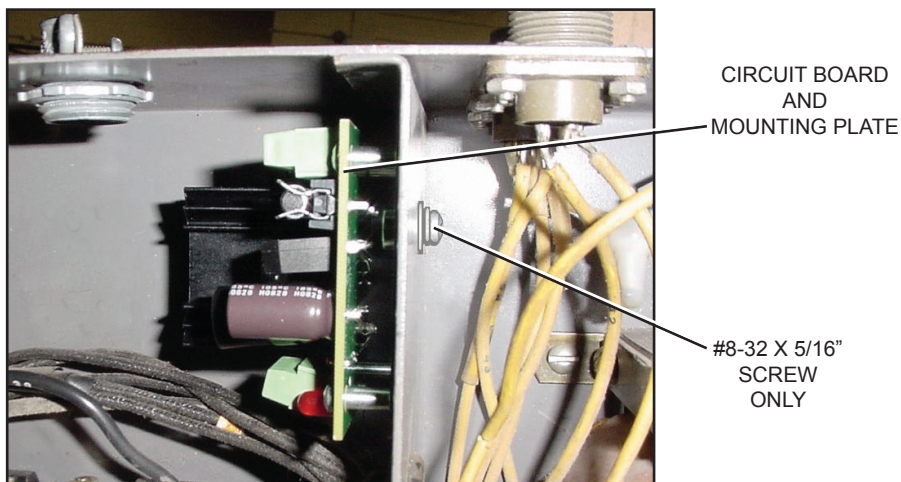
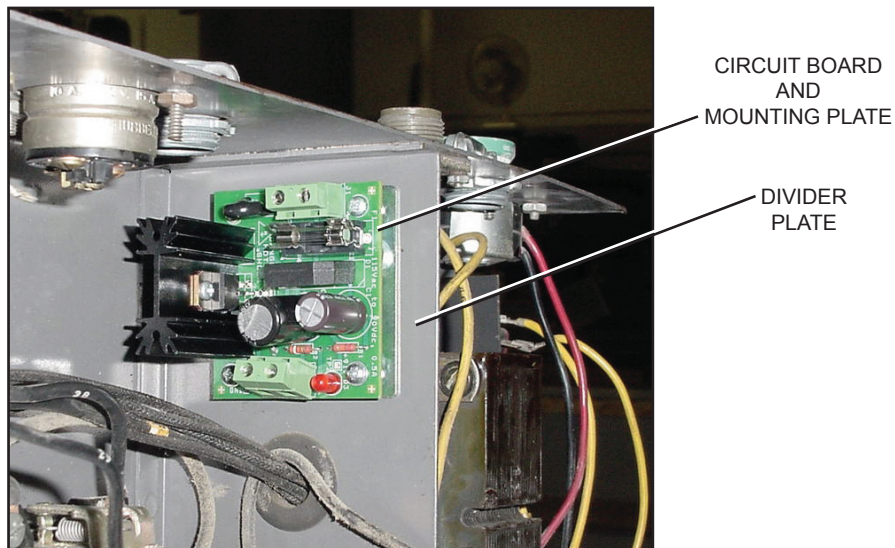


NOTE: Removing these two components results in six loose wires. Two will be used to supply 115VAC power to the new circuit board, two other wires will take 90VDC from the new circuit board and provide DC power to the magnetic clutch and the remaining two wires will be used at the cross conveyor switch.

For the following steps, consult the Pinsetter Wiring Diagram which pertains to your equipment in the Pinsetter Service Manual.

2. Identify wires 40 and 49, which will provide 115VAC to the new circuit board. Using wire stripping tool, remove enough insulation to expose a suitable amount of bare wire to fit into the two conductor clamping terminal block labeled "115VAC" on the new circuit board. Insert one wire into each of the openings on the terminal block. Tighten each clamping screw to secure the wire.

3. Locate the white wire from the cross conveyor switch. Remove enough insulation to expose a suitable amount of bare wire to fit into the two conductor clamping terminal block labeled “90VDC Output” on the new circuit board. Insert the white wire into one of the openings on the terminal block. Tighten the clamping screw to secure the wire.
4. Using the Pinsetter Wiring Diagram, locate black wire 24. Remove insulation from the wire as done in previous steps and insert the wire into the remaining opening on the “90VDC Output” terminal block. Tighten the clamping screw to secure the wire.
5. Identify wire 30 and the black wire from the cross conveyor switch, strip as instructed in previous steps and fasten these two wires together with the wire nut.
6. Fasten the circuit board and mounting plate to the divider plate in the electrical box using the hole where the selenium rectifier was attached. Use **ONLY** the #8-32 X 5/16” machine screw provided. Using a longer screw may short out the board. Correctly mounted boards are shown in the following two photos.



7. The circuit board is now installed. Reconnect power and verify the red LED on the board is lit. If it is, the board is properly installed. If it is not, check wire connections.