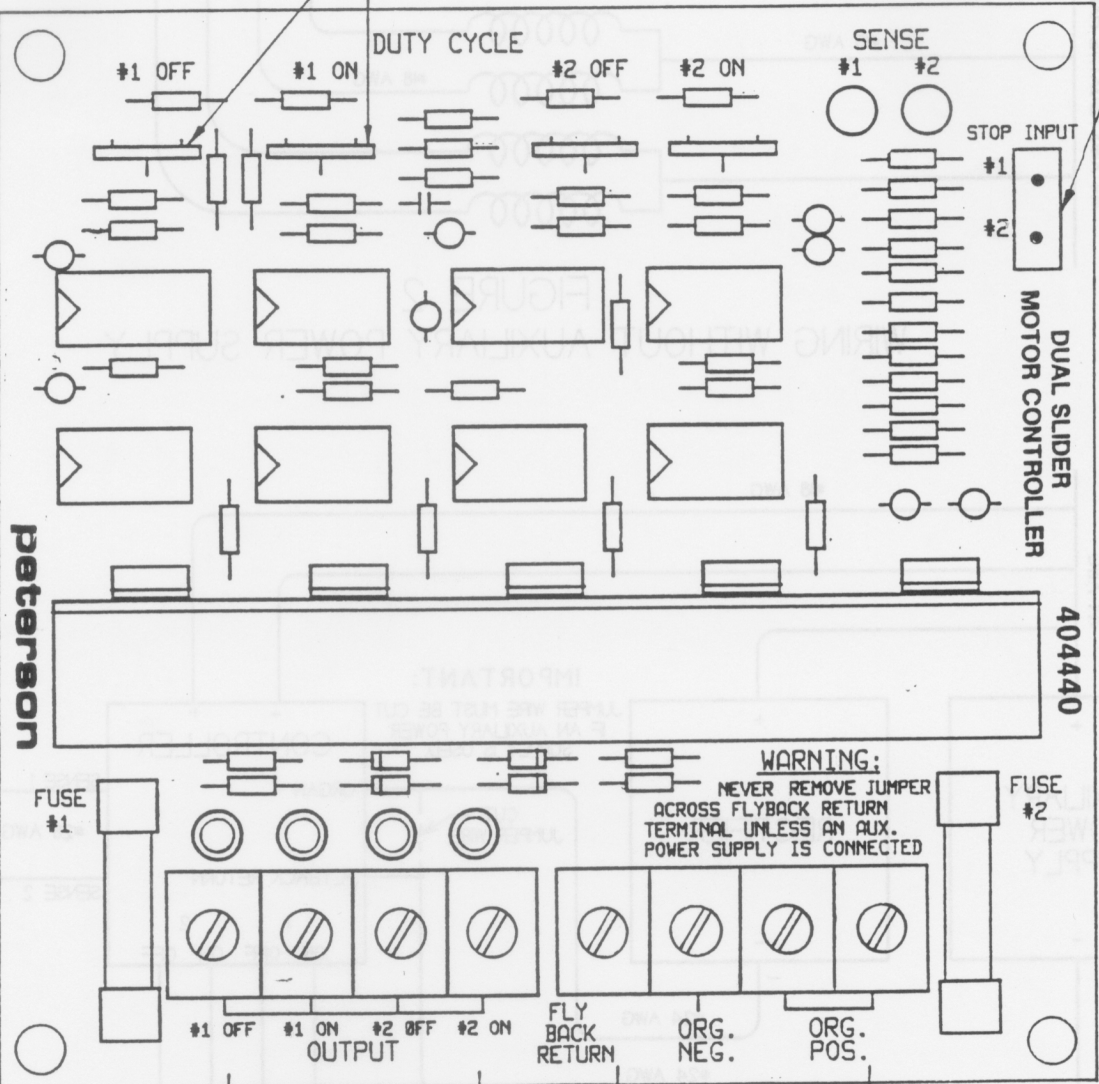


POWER ADJUSTMENT CONTROLS

INPUTS FROM DRAWKNOBS



OUTPUTS TO SLIDER MOTOR COILS

CONNECTIONS TO POWER SUPPLY

FIG. 1

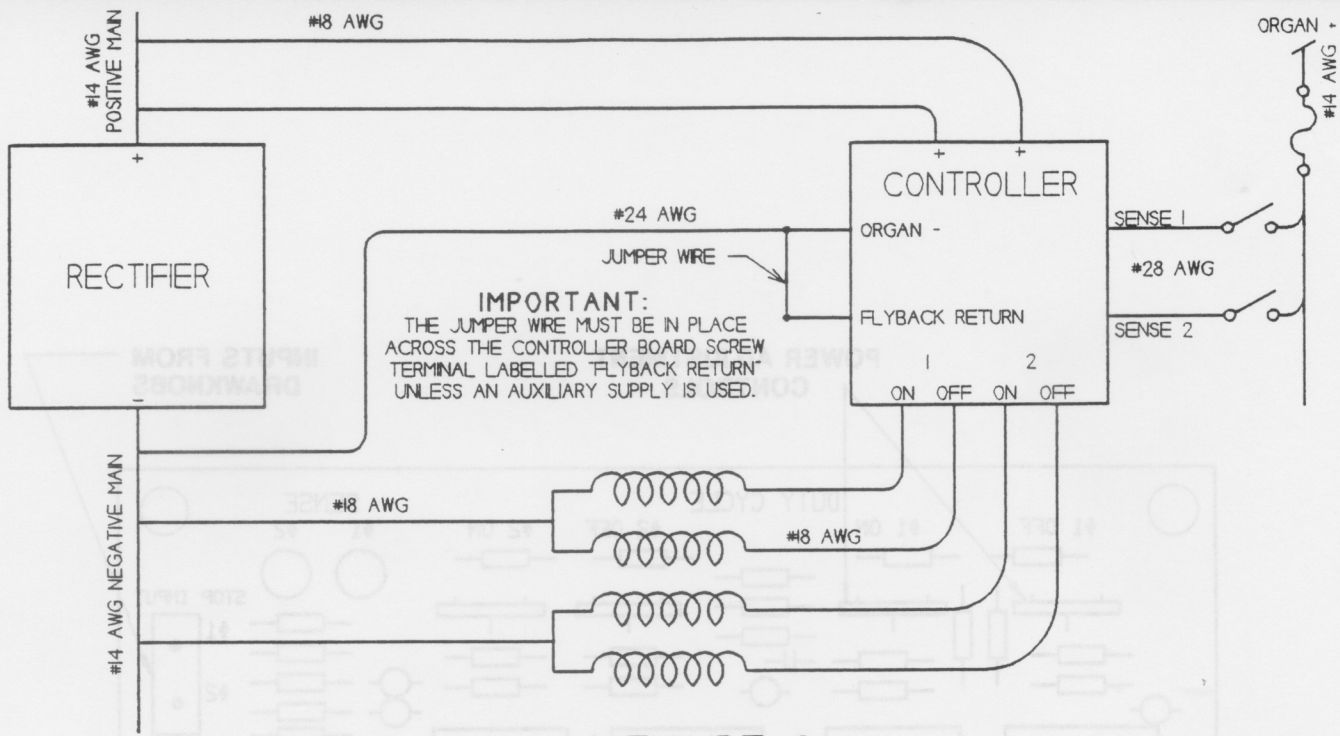


FIGURE 2
WIRING WITHOUT AUXILIARY POWER SUPPLY

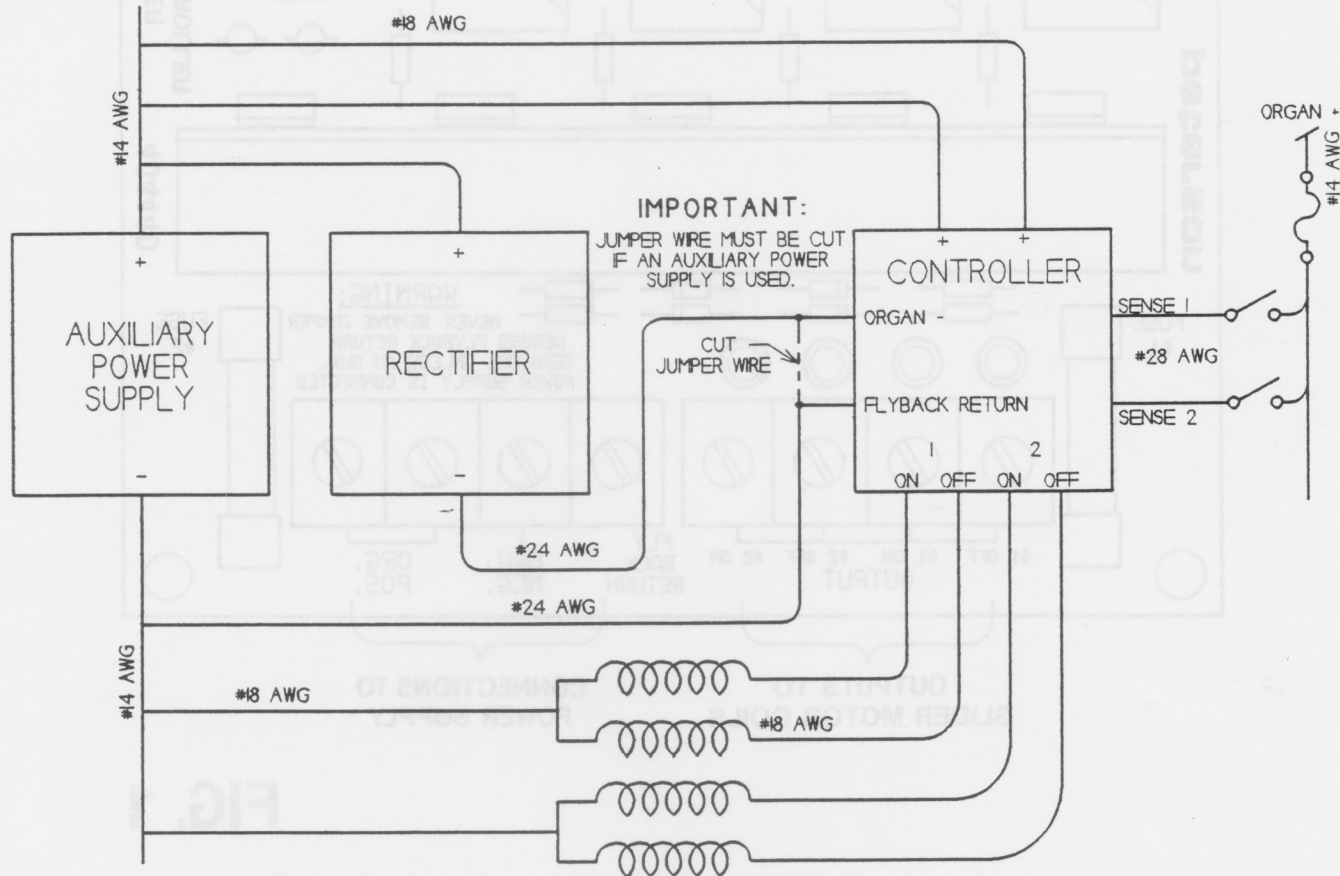


FIGURE 3
WIRING WITH AN AUXILIARY POWER SUPPLY

THE PETERSON SLIDER MOTOR CONTROLLER INSTALLATION INSTRUCTIONS

The Peterson slider motor controller may be mounted in any convenient location. You may wish to mount it directly on the chest, near the slider motors. Selecting a location where the heavy wires between the controller and the coils of the slider motors will be short will minimize voltage losses. Runs of over 25 feet may require larger wire than is specified for "short runs". In general it is useful to remember that an increase in wire size by three numbers, such as from #15 to #12AWG, doubles the current that the wire can carry with a particular voltage drop. With these factors in mind, fasten the slider motor controller in place with four screws.

IMPORTANT-ALWAYS MAKE ELECTRICAL CONNECTIONS WITH THE POWER OFF!

If polarities other than Positive Stop Common and Negative Slider Motor Coil Common are necessary, please contact the factory for assistance.

Connect the "On Coil" and "Off Coil" wires from the controller to the respective lugs on the slider motors. Be careful not to reverse On and Off wires or to cross circuits for the two slider motors driven by one controller. Number 18 AWG wire should be used for these connections.

The sense wires from the drawknobs or tablets should be connected to the E-Z wire connectors as labelled on the controller. Wire as small as #28 AWG may be used here.

Connect a #24 or larger wire from the Organ Negative terminal on the controller to the negative rectifier terminal or main Organ Negative buss

If the main organ rectifier is used to power the slider motors, connect the coil common terminals of the slider motors to Organ Negative. Use #18 AWG wire for short runs. Connect a #18 AWG wire between each Positive terminal on the controller and the Positive main line from the rectifier. **IMPORTANT:** Be sure that the jumper is intact across the screw terminal labelled "flyback return". See Figure 2.

If an auxiliary power supply is used to power only the slider motors, connect the coil common terminals of the slider motors to the negative terminal of the Auxiliary Power Supply, using #18 or larger wire for each. Connect a #18 wire from the Positive terminal of the Auxiliary Power Supply to each of the terminals labelled Positive on the controller. Run a #24 wire between the Auxiliary Power Supply Positive terminal and the Rectifier Positive terminal or Positive main line. **IMPORTANT!** If an Auxiliary supply is used, clip the wire across the screw terminal labelled "flyback return" on the controller and connect a #24 wire from this terminal to the Negative side of the Auxiliary Power Supply.

Turn on the organ power (and Auxiliary Power Supply if used) and test each slider motor controller circuit. A red LED should be on whenever the corresponding stop control contacts are closed. Whenever the position of a drawknob or tab changes, a slider motor coil should be energized that will move the slider in the proper direction and the corresponding LED should come on for about 1/2 second. If the slider motor is sluggish, or overpowered and thus noisy, adjust the appropriate control to increase or decrease the power supplied to the unit.

If you have any questions or problems, please call us toll free at 1-800-341-3311.