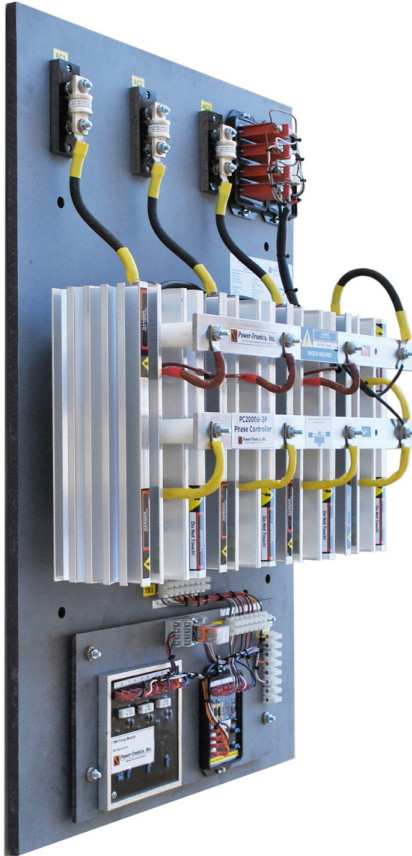




PC2000B-3P

Modified for Synchronous Motor Control



The PC2000B-3P can be used as a phase controller, static exciter or variable dc power source or in a special configuration, a triac device. The mainframe of the PC2000B-3P consists of 4 oversized heat sinks that do not require fans for cooling, and the rectification is controlled via an SCR bridge. The PC2000B-3P can be configured for different applications by simply selecting one of our control panels that will fit your application. These panels simply bolt onto the main frame of the PC2000B-3P.

Power Section Specifications:

Input Voltage:	200-240vac, 3 phase
Output Current:	0-250vdc @ 200adc
Protection:	Input Fusing, 200aac
Cooling:	Free Air Heat Sinks, no fan required
Housing:	OEM, will require customer housing
Physical Size:	24 x 36 x 12in
Weight:	140lbs

Control Specifications:

Input Power	24vdc
Control Voltage:	0-10vdc analog or digital
Control Current:	0-1.9ma
Protection:	Internal Fusing

Warning!

- **Only a professional switchboard and generator technician should attempt to install this product!**
- **Follow all standard safety precautions during installation.**
- **Wear protective eyewear and clothing while installing and during adjustments.**

Installation Instructions

1. Remove the PC2000B-3P main rectifier assembly from its packing crate and inspect for shipment damage.
2. Mount the main rectifier assembly in a protected cabinet or safety enclosure.
3. Connect the external control wiring to TB3 (fig.1) as shown.
4. Connect up the incoming 3phase 240vac to the fuses on the main rectifier assembly as shown in (Fig.1).
5. Connect up the F+ and F- exciter or rotor leads to the main rectifier assembly as shown in (Fig.1).

You are now ready to power up the motor and adjust the exciter

1. Check and make sure that all connections are properly made on the installation.
2. Input 24vdc into terminals TB3-C and TB3-D and start up the motor.
3. This unit is preset to output approximately 150vdc on startup. To change the initial output voltage, turn the range adjustment (P4) CW or CCW until the required base voltage is obtained.
4. Adjust your external 0-10vdc signal to control the output current from this point on.

Special Note:

Do not make any adjustments on the firing modules (Fig. 2) without contacting Power-Tronics, Inc., first! You will need an oscilloscope to make any adjustments on these modules!

For technical assistance please call: 830.895.4700 or email to: pti@power-tronics.com

Fig. 1

Interconnection Diagram for the PC2000B-3P Phase Controller

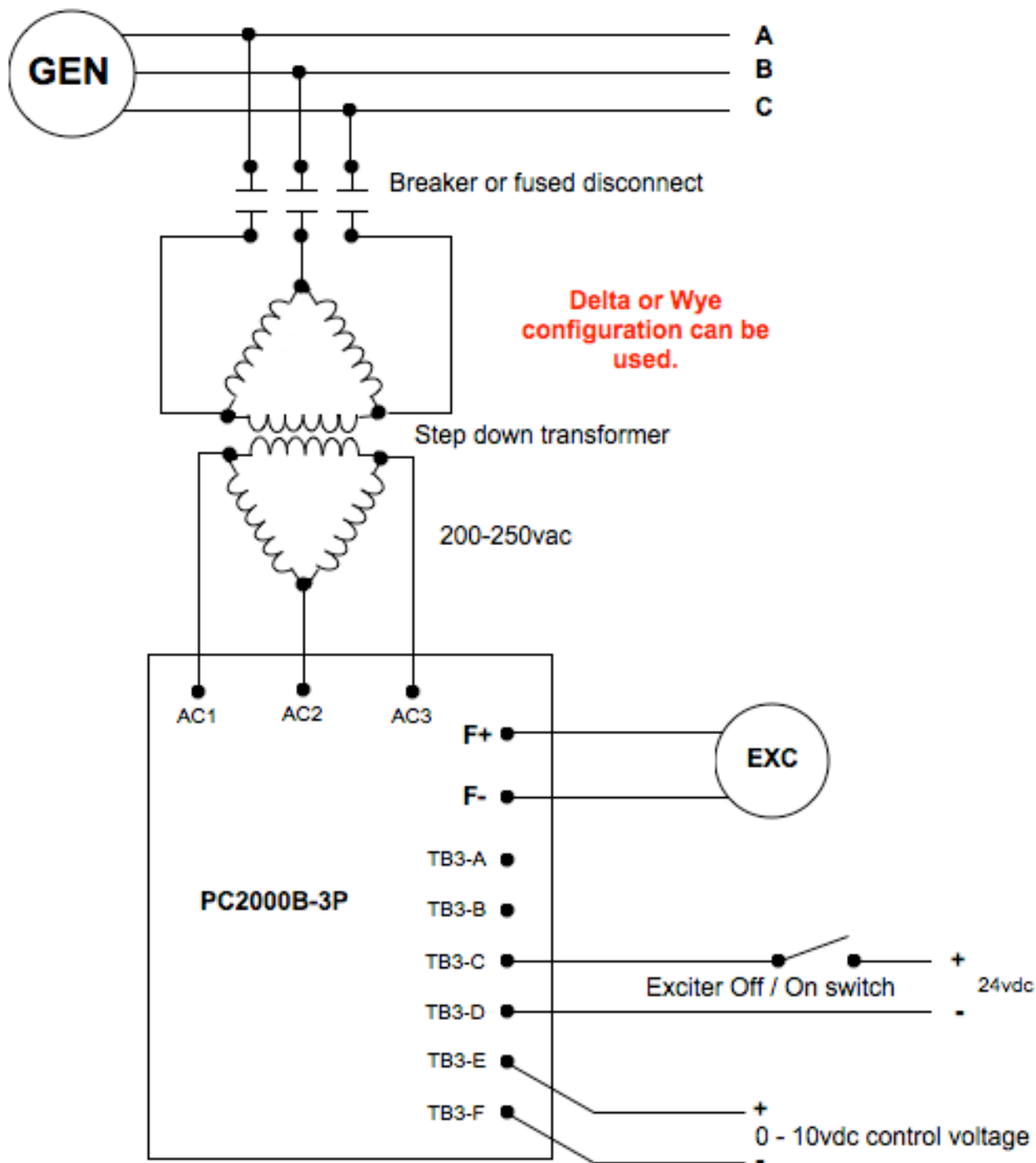
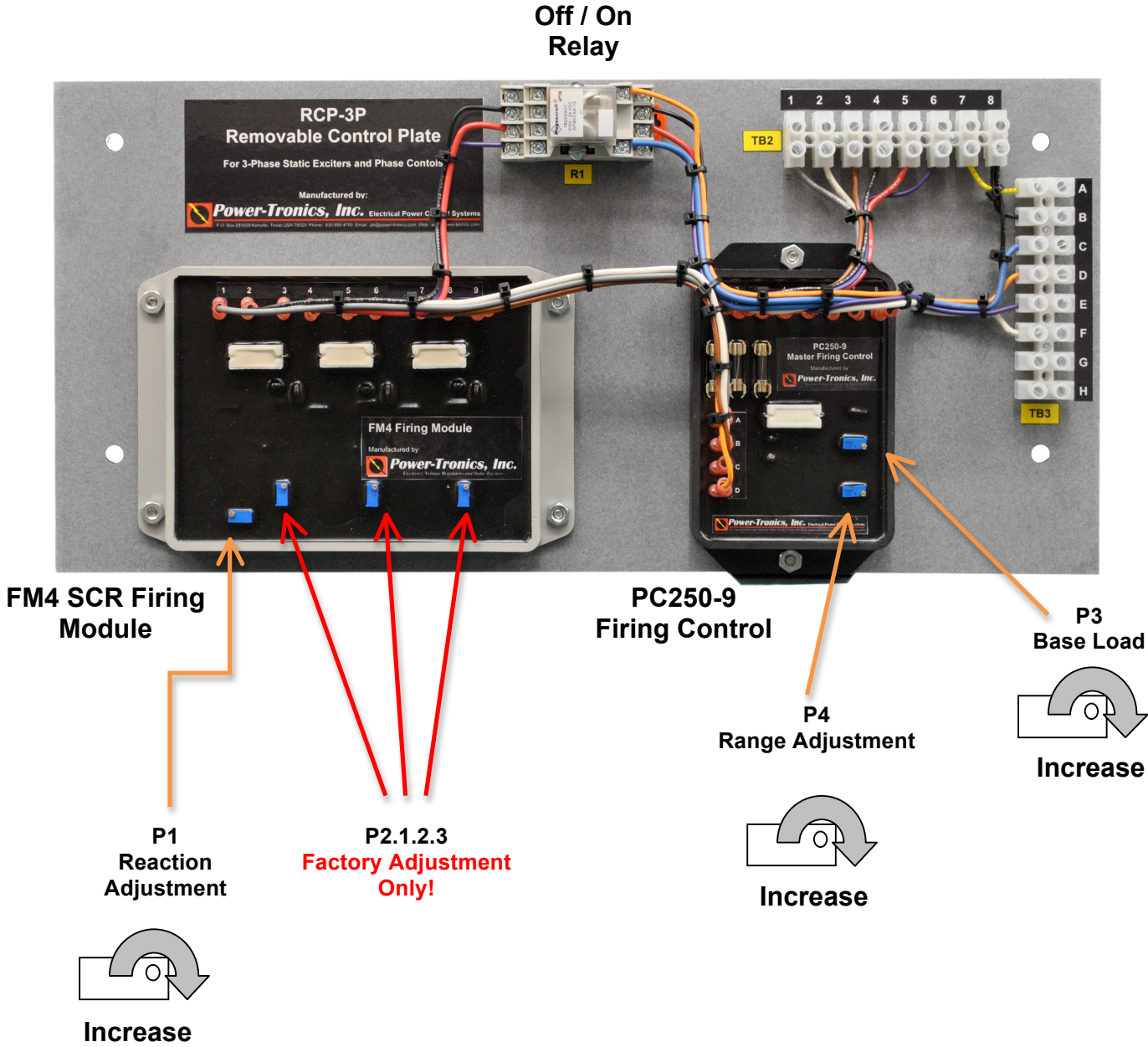


Fig. 2



WARNING!

Do not make any adjustments without first contacting Power-Tronics, Inc.!

PRODUCT WARRANTY

Power-Tronics, Inc., assumes no liability for damages due to incorrect voltage or other voltage related damages resulting from either output of the generator or input to the exciter system. These problems should be protected with external devices provided by the customer such as **fuses, surge suppressors, over/under voltage and frequency controls, manual disconnects or any other protective device.**

Power-Tronics, Inc., warranties **only parts and workmanship** of this product for a **period of 2 years from the original date of purchase from Power-Tronics, Inc.** Under warranty, Power-Tronics, Inc. will replace, exchange or repair the defective product **without labor or parts cost to the customer.** Remaining warranty of the original product will be transferred to the replaced or repaired product. To obtain warranty, a copy of the original purchase receipt must be sent in with the defective product, which clearly shows the purchase date and serial number of the defective part. A repair request form must be sent in with the product before repairs will begin. You can obtain this form through contacting Power-Tronics, Inc. Send repairs to: Power-Tronics, Inc., 2802 Cobbler Ln., Kerrville Texas USA 78028. Send in repairs only by UPS or FedEx.

Any one of the following conditions will void the warranty:

- ❖ Overheating of the power supply components.
- ❖ Overheating of the SCR's or freewheeling diodes.
- ❖ Physical damage to the printed circuit cards, housing or components.
- ❖ Unauthorized repair or alteration of this product.
- ❖ Conductive or corrosive contamination.
- ❖ Removal of our company identification from the product.
- ❖ Removal of any conformal coating of the printed circuit cards or other components.
- ❖ Damage due to overheating or alteration.
- ❖ Inappropriate or infeasible application.
- ❖ **Installation by anyone other than a fully qualified and experienced professional electrical generator service and repair technician or engineer.**
- ❖ Misuse.
- ❖ Damage to this product resulting from external sources such as field windings, brush and slip ring arcing and other driven devices.
- ❖ Use with any external device not manufactured by Power-Tronics, Inc.

No other warranty is expressed or implied.