

DARRAH ELECTRIC COMPANY

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Power Conversion Solutions - Distribution - D.C. Power Supplies



Inst # 1116B

Darrah Part # E12078

Direct Drive Regulator Bypass for Secondary SCR Controlled Rectifiers

For Use on Darrah Part No.: E19005C, E19061, Enerpro SCR Gate Drives

This assembly will bypass the Darrah regulator circuit board (E19001A, E19042, E19043) and factory supplied voltage and current control potentiometers.

As the potentiometer is turned on the E12078 assembly, the power supply DC output will raise or lower.

Operation:

1. Shut AC power off to the rectifier.
2. Remove the factory wired 12 pin "J-3" plug from the Enerpro SCR gate drive and insert the plug into the female #12 pin socket of part #E12078 (Note: the plug is keyed and can only be inserted one way). Darrah #E19005A / Enerpro # FC0G6100 circuit board.
3. Insert the male plug of part #E12078 into the "J-3" socket. (Note: the plug is keyed and can only be inserted one way.)
4. Turn the control potentiometer down (counter clockwise) and re-start the rectifier.
5. Turn the control potentiometer slowly clockwise and monitor the output meters. You should have complete non-regulated control of the rectifier's output at this time.

CAUTION: Do not exceed the nameplate DC voltage rating or DC current ratings of the rectifier while using this control. All output limits are no longer active when the regulator is bypassed.

CAUTION! **CAUTION!** **CAUTION!**

**DEADLY HIGH VOLTAGE POTENTIALS ARE PRESENT! ONLY SKILLED
ELECTRICAL SERVICE TECHNICIANS SHOULD DO THIS TESTING.**