INSTRUCTION MANUAL



KEPCO An ISO 9001 Company.

KIT 219-0638

SERIES CONNECTION KIT FOR TWO BOP 100V LINEAR POWER SUPPLIES

1 DESCRIPTION.

This KIT allows local or remote control of two identical 100V BOP (BOP 100-1, BOP 100-2 or BOP 100-4) units connected in a series master/slave configuration. The kit contains one output power cable (P/N 118-1430) for connecting the Master OUT terminal to the slave COM terminal, one sense link cable (P/N 118-1431) to connect master OUT S and slave COM S sense terminals and a control cable (P/N 118-1429) that facilitates proper configuration of the master and slave PC 15 rear programming connections to allow local analog control of the master/slave pair, and configures the circuit breakers of the units so that if the circuit breaker of one BOP trips, the other unit in series trips as well (see Circuit Breaker Control Circuit paragraph in the BOP Operator's Manual for details).

NOTE: The BOP Operator's manual can be downloaded from the Kepco web site at: www.kepcopower.com/support/opmanls.htm#bop

This control cable has two rear programming connectors marked MASTER and SLAVE to indicate which one is connected to the master and which one to the slave. The PC 15 connectors have been modified as follows:

- The connection between pin 26 and pin 36 is interrupted on the PC 15 for both the MASTER and SLAVE.
- The interconnections of cable 118-1429 are shown in the schematic diagram, Figure 3.

2 INSTALLATION

- 1. Connect two BOP's units in series as shown in Figure 1 for remote sensing or Figure 2 for local sensing.
 - The wire connections between BOP OUT and COM to the load should be rated for the nominal output current
 of the unit.
 - For load wiring recommendations (power and sense) refer to the Load Connection paragraph in the BOP Operator's manual.
 - For AC and DC grounding recommendations, refer to A-C Grounding and D-C Grounding paragraphs in the BOP Operator's manual.
 - All the output wires' insulation should be rated for 300V.
 - Both units should be supplied from a common AC source.

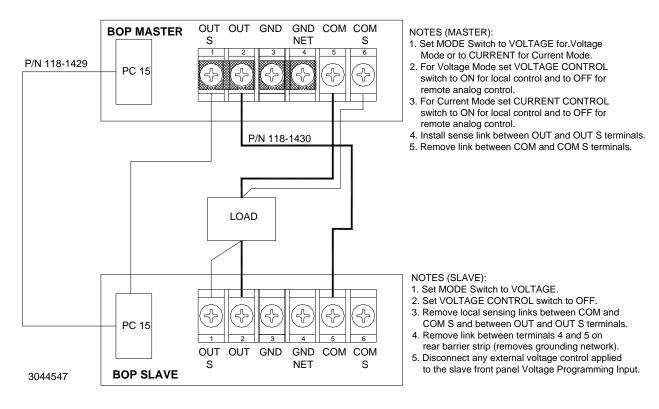


FIGURE 1. BOP 100V, SERIES CONNECTIONS USING KIT 219-0638, REMOTE SENSING

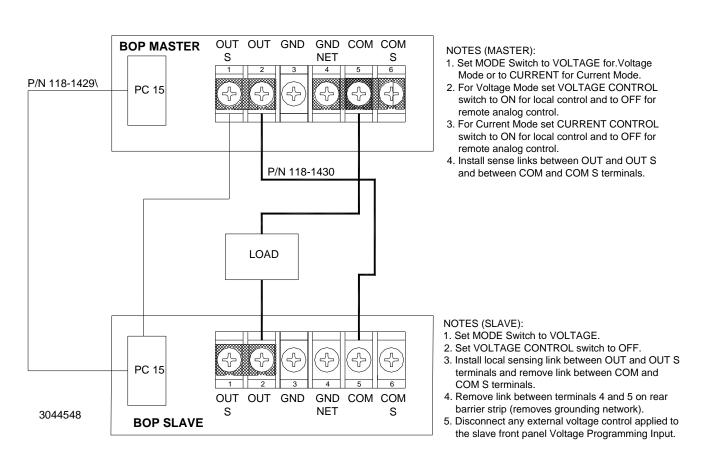


FIGURE 2. BOP 100V, SERIES CONNECTIONS USING KIT 219-0638, LOCAL SENSING

KEPCO, INC. ● 131-38 SANFORD AVENUE ● FLUSHING, NY. 11355 U.S.A. ● TEL (718) 461-7000 ● FAX (718) 767-1102

- 2. Set the master BOP as specified in the notes of Figure 1 (remote sensing) or Figure 2 (local sensing).
- 3. Set the slave BOP as specified in the notes of Figure 1 (remote sensing) or Figure 2 (local sensing).

NOTE: If a BIT card is installed in the slave, it must be disabled to allow analog control from the master unit.. See application note titled "How to Disable BIT Card in a) BOP models with BIT 802E or 4886 Cards Installed or b) BOP 2X-DE Models," The application note also explains how to configure digital control of a master/slave combination. The application note can be downloaded from the Kepco web site at:

www.kepcopower.com/support/bop-app-note.htm

 Connect the wire with terminal lug from the PC 15 labeled SLAVE to Master OUT S terminal at the master rear terminal block.

3 OPERATION

The Master unit can be controlled either locally and/or by remote analog signals, or through digital commands using a BIT card. When using a BIT card, the analog control (local or remote) is disabled.

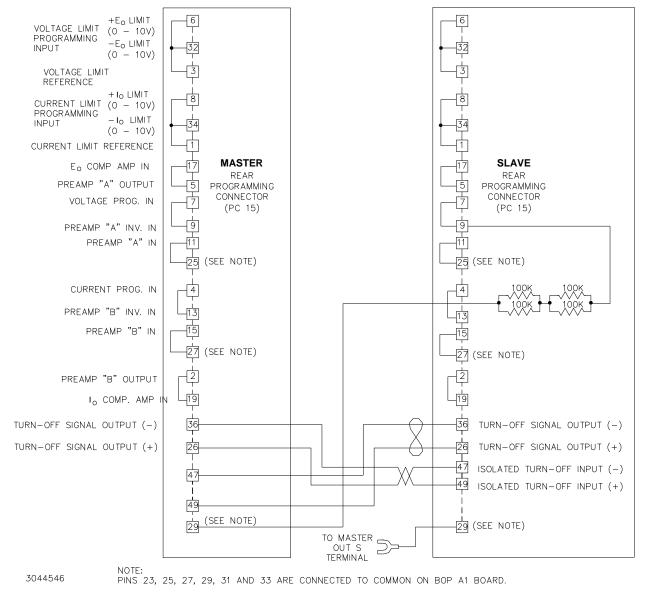


FIGURE 3. CONTROL CABLE (P/N 118-1429) FOR LOCAL CONTROL OF BOP 100V SERIES-CONNECTED MASTER/SLAVE PAIR, SCHEMATIC DIAGRAM