Voltage Regulators

COOPER Power Systems

Service Information

CL6 to CRA-DDR Connector Kit #57A64317100D

S225-50-29

Contents

GENERAL

The purpose of this kit is to allow for retrofitting a CL6 control panel to a CRA that has a DDR Board on the back panel. The CL6 no longer needs a DDR Board for CRA operation. The kit connector bypasses the DDR Board.

TABLE 1
Parts supplied

Item	Part Number	Description	Qty
1	A61311100A	Connecter	1
2	A613098001	CL6 Tool	1
3	TAA136264002	Mounting Base	2
4	0800070862	SCR Mach #6 x 0.38	2
5	TAA136263001	Cable Ties	5

Tools Required

- Standard Screwdriver
- Diagonal Cutters

INSTALLATION INSTRUCTIONS

1. Close the C knife blade switch on the back panel, this will short the regulator current transformer.

> **WARNING:** If the CT is not shorted a possible hazard can be created due to the CT voltage flowing.

2. When using this kit you will be removing the control (CL5 or CL4) series from the CRA cabinet, complete this process first and install the CL6 front panel.

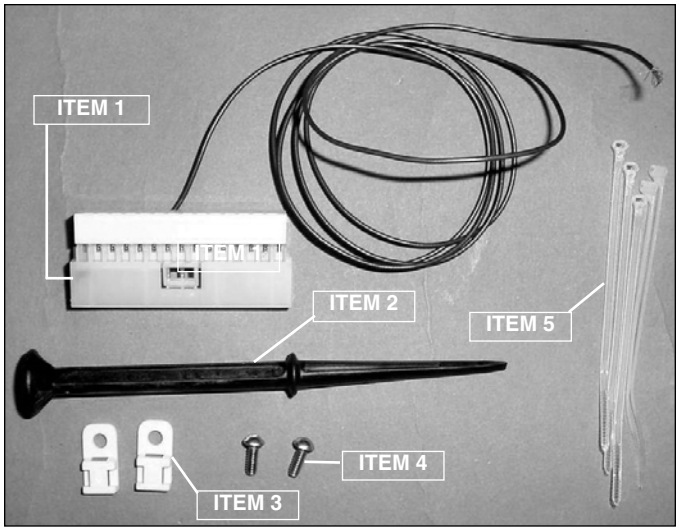

Figure 1.
Kit Parts

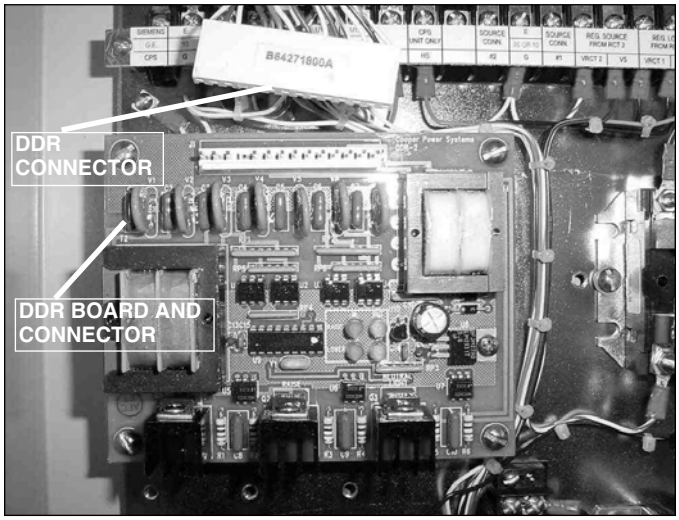

Figure 2.
DDR Circuit Board

These instructions do not claim to cover all details or variations in the equipment, procedure, or process described, nor to provide directions for meeting every contingency during installation, operation, or maintenance. When additional information is desired to satisfy a problem not covered sufficiently for the user's purpose, please contact your Cooper Power Systems sales engineer.

SAFETY FOR LIFE

Cooper Power Systems products meet or exceed all applicable industry standards relating to product safety. We actively promote safe practices in the use and maintenance of our products through our service literature, instructional training programs, and the continuous efforts of all Cooper Power Systems employees involved in product design, manufacture, marketing and service.

We strongly urge that you always follow all locally approved safety procedures and safety instructions when working around high-voltage lines and equipment and support our “Safety For Life” mission.

SAFETY INFORMATION

The instructions in this manual are not intended as a substitute for proper training or adequate experience in the safe operation of the equipment described. Only competent technicians, who are familiar with this equipment should install, operate and service it.
A competent technician has these qualifications:

- *Is thoroughly familiar with these instructions.*
- *Is trained in industry-accepted high- and low-voltage safe operating practices and procedures.*
- *Is trained and authorized to energize, de-energize, clear, and ground power distribution equipment.*
- *Is trained in the care and use of protective equipment such as flash clothing, safety glasses, face shield, hard hat, rubber gloves, hotstick, etc.*

Following is important safety information. For safe installation and operation of this equipment, be sure to read and understand all cautions and warnings.

Hazard Statement Definitions

This manual may contain four types of hazard statements:

DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING: Indicates a potentially hazardous situation which, if not avoided, could result In death or serious injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in equipment damage only.

Safety Instructions

Following are general caution and warning statements that apply to this equipment. Additional statements, related to specific tasks and procedures, are located throughout the manual.

DANGER: Hazardous voltage. Contact with high voltage will cause death or severe personal injury. Follow all locally approved safety procedures when working around high- and low-voltage lines and equipment.

WARNING: Before installing, operating, maintaining, or testing this equipment, carefully read and understand the contents of this manual. Improper operation, handling or maintenance can result in death, severe personal injury, and equipment damage.

WARNING: This equipment is not intended to protect human life. Follow all locally approved procedures and safety practices when installing or operating this equipment. Failure to comply may result in death, severe personal injury and equipment damage.

WARNING: Power distribution equipment must be selected for the intended application. It must be installed and serviced by competent personnel who have been trained and understand proper safety procedures. These instructions are written for such personnel and are not a substitute for adequate training and experience in safety procedures. Failure to properly select, install or maintain this equipment can result in death, severe personal injury, and equipment damage.

3. Disconnect the white connector from the top of the DDR Board (See Figure. 2).
4. Connect the Kit wire harness connector Item 1 to the existing DDR connector and harness (See Figure 3). Be sure pin alignment are correct, the kit adopter connector will have the connector key on the right hand end, once the two connectors are mated (See Figure 3).

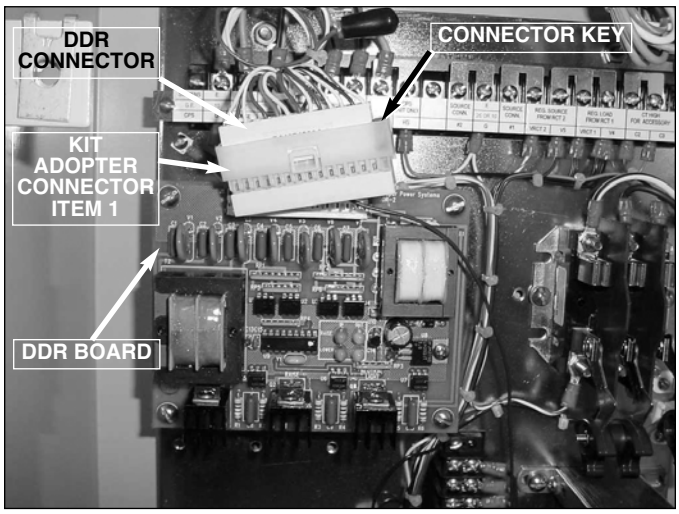

Figure 3.
DDR Board and Kit Adopter connector Item 1.

5. Fasten two Item 3 to the lower back of the CL6 control panel using two Item 4, #6 x .38 Mach screws (See Figure 4). The CL6 control panel has two #6 tapped holes provided.

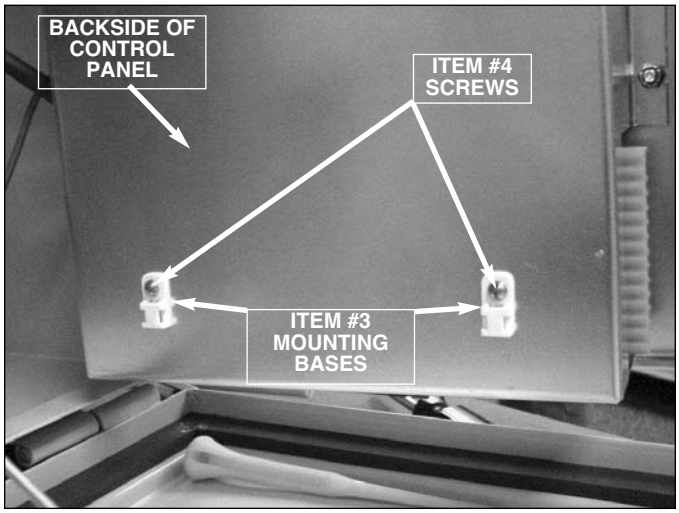

Figure 4.
Back of Control Panel with Mounting Bases.

6. Place two cable ties through the cable tie guides on the mounting bases on the back of the CL6 front panel. Thread the brown through the cable ties (See Figure 5).

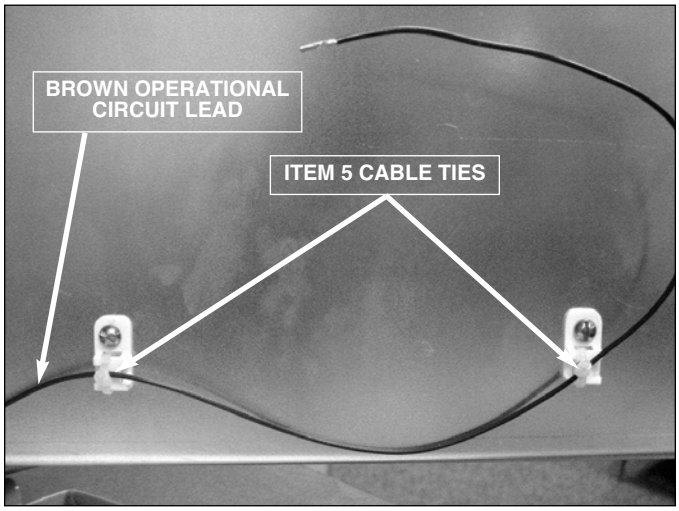

Figure 5.
Cable ties and Brown Operation Circuit lead.

7. Use the CL6 Tool, Item # 2 and insert into the square hole second from the bottom on the programmable I/O connector.

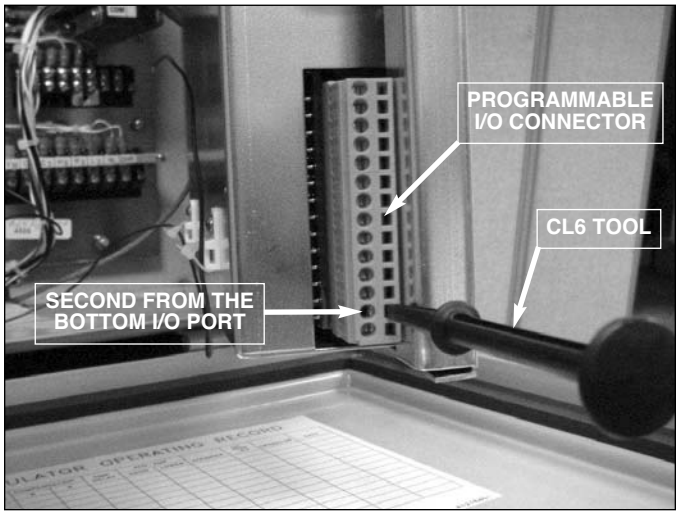

Figure 6.
Programmable I/O Port and CL6 Tool, Item 2.

8. Insert the bare wire of the brown lead into the round connection hole, second from the bottom on the programmable I/O connector (See Figure 6). While holding the wire in place remove the CL6 Tool from the programmable I/O connector.

Figure 7.
Brown Operational Circuit lead installation.

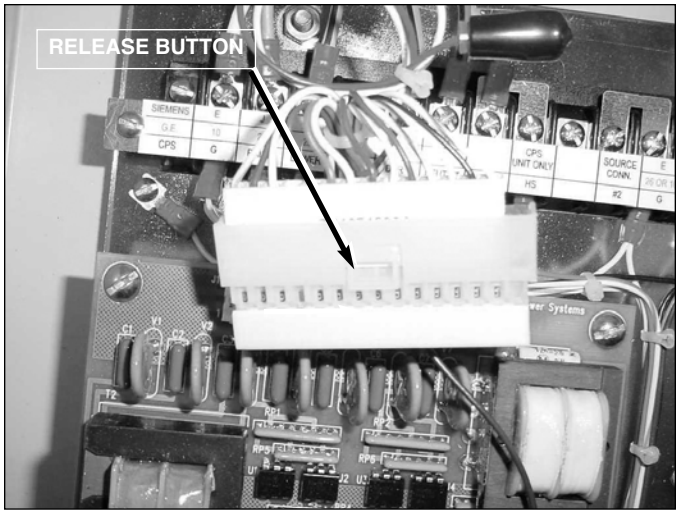

Figure 8.
Removing Adopter Connector.

9. Open the C knife blade switch on the back panel and program the control functions.
10. If the kit adopter needs to be removed from the harness connector so that the DDR can be use with controls starting with the CL5 series and earlier, press and hold down the release button on the kit adopter connector and pull the two connectors apart (See Figure 8). The white DDR connecter can be reconnected to the DDR board. This is only to be done if the CL6 is removed and an earlier version control is to be used on the CRA.

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