



SEL-651RA Installation Instructions for 4-Pin Cable for Cooper Kyle NOVA LEA Voltage Inputs

Introduction

This 4-pin cable provides a four-pin male receptacle that exits from the bottom of the cabinet. The 4-pin cable is internally wired to Cooper Kyle® NOVA™ Low-Energy Analog (LEA) voltage inputs. The 4-pin receptacle provides a means (by way of an external cable, which is not included) to connect Cooper Kyle NOVA LEA voltage inputs to the control.

Parts

SEL Part Number	Description	Quantity
SEL-C2258	4-pin voltage input receptacle harness	1
SEL-C5241	Ground wire	1
080-0101	5/8 steel wire clamp	2
140-0500	4-40 x 1/2" screw	4
140-0740	4-40 hex nut	4
144-0140	Plastic cap	1
310-0050	Zip ties	12

Installation

- Step 1. Install the 4-pin voltage input receptacle harness in the rightmost hole in the front row of the bottom of the cabinet. Insert the receptacle from the inside of the cabinet and three of the four screws from the outside. Install the nuts on the screws from the inside of the cabinet. See *Figure 1*.
- Step 2. Install smaller ring terminal of the green/yellow ground wire and the drain wire to the last connector screw and secure them with the last nut. See *Figure 1*.
- Step 3. Use the existing nut to connect the larger ring terminal of the green/yellow ground wire to the ground stud. See *Figure 1*.

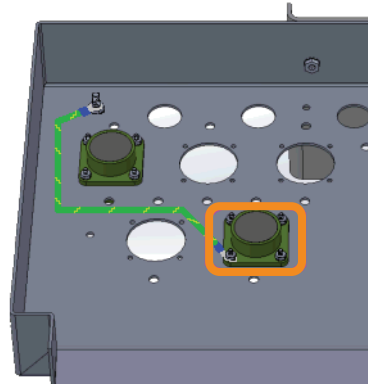


Figure 1 Install Ring Terminal

Step 4. If your unit is equipped with the fuse block for field wiring, go to *Wiring With Fuse Block*. Otherwise, go to *Wiring Without Fuse Block*.

Wiring Without Fuse Block

Step 1. Form a drip loop and route the harness wires to the left toward the 14-pin connector. See *Figure 2*.

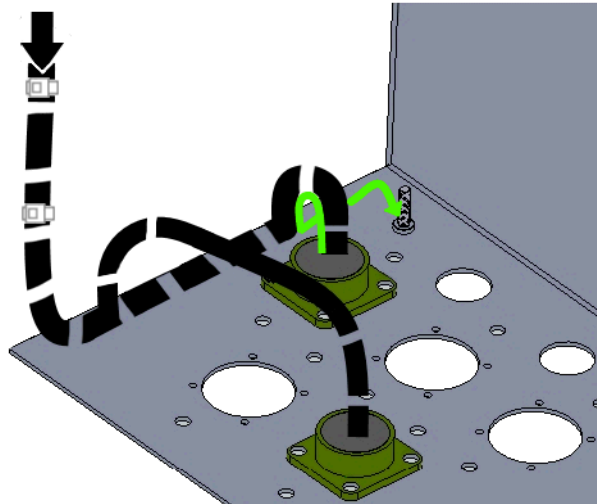


Figure 2 Form Drip Loop and Route Harness Wires

Step 2. Join the 4-pin wires with the main harness and route the wires through the wire loom and up the swing panel hinge through the existing wire clamps.

Step 3. Route the wires across the top of the control module. The accessory wires route separately from the main harness.

Step 4. Use the existing nuts to secure the wires to the top of the control module with the two accessory wire clamps (if they are not already installed). See *Figure 3*.

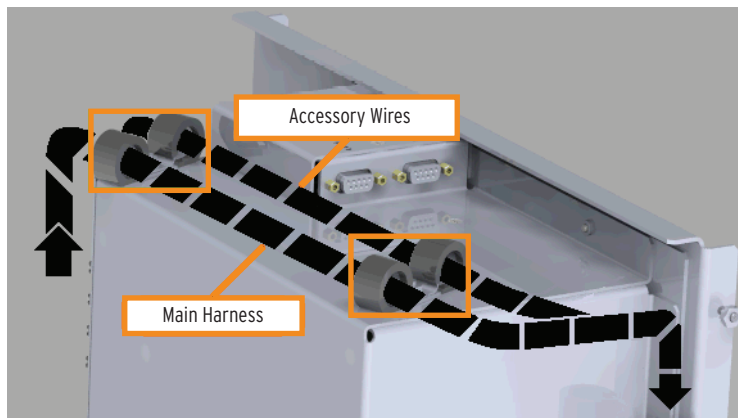
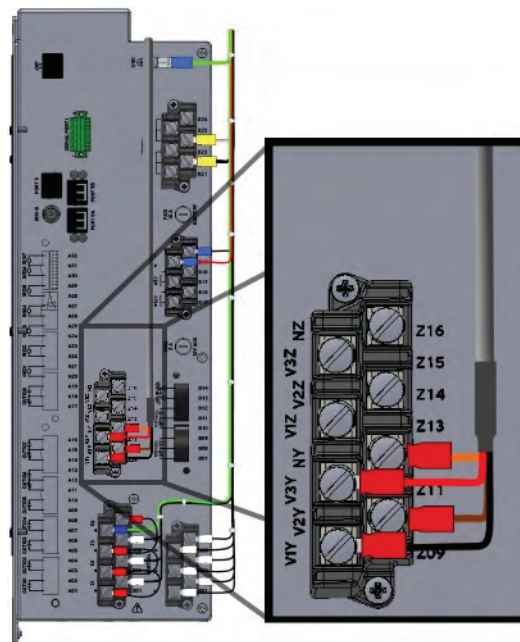


Figure 3 Secure Wires on Top of Control Module

Step 5. Attach the four-pin harness wires according to the table in *Figure 4* as required for your specific secondary input voltage (SIV) option. See *Table 1* for SIV-specific wiring.

Table 1 SIV-Specific Wiring

SIV Option	MOT Character	Wire
Y-side LEA	D	A, B, C, D only
Y-side LEA	E	A, B, C, D only



4-Pin Wires:	To:
A (Black Wire)	Z09
B (Brown Wire)	Z10
C (Red Wire)	Z11
D (Orange Wire)	Z12

Figure 4 Attach Wires to Control Module

Step 6. Zip tie wires as necessary.

Wiring With Fuse Block

Step 1. Form a drip loop and route the harness wires to the bottom of the fuse block for field wiring. See *Figure 5*.

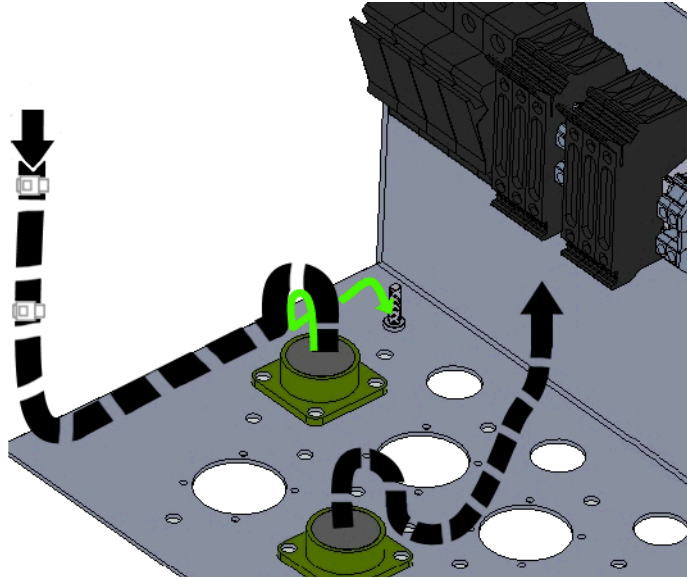
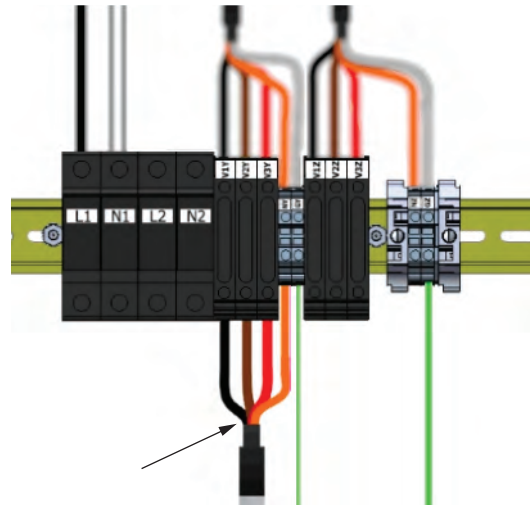


Figure 5 Route Harness Wires to Bottom of Fuse Block

Step 2. Cut the cables to a reasonable length, remove about 2 inches of the jacket, and strip the individual wires about 7/16 of an inch.

Step 3. Attach the four-pin harness wires according to the table in *Figure 6* as required for your specific secondary input voltage option. See *Table 1* for SIV-specific wiring.



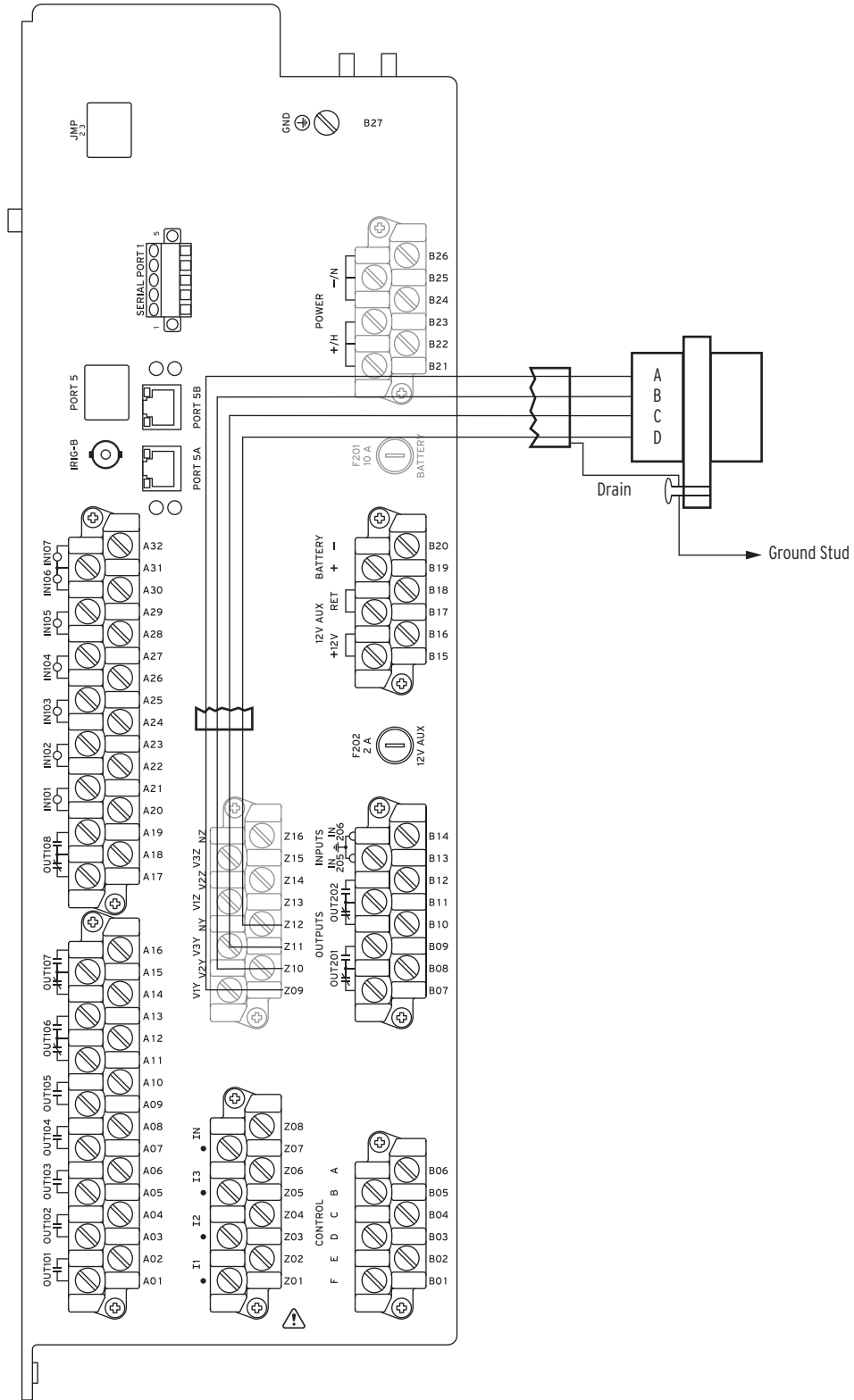
4-Pin Wires:	To: Fuse Block
Black Wire (A)	V1Y - Bottom
Brown Wire (B)	V2Y - Bottom
Red Wire (C)	V3Y - Bottom
Orange Wire (D)	NY - Bottom

Figure 6 Attach Wires to Fuse Block

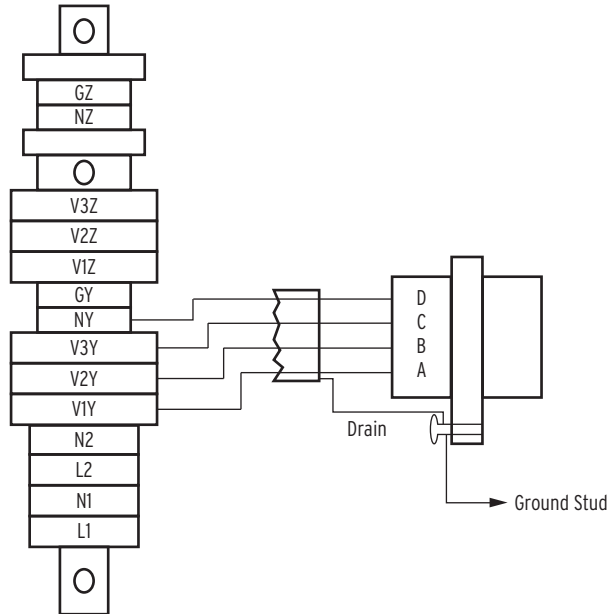
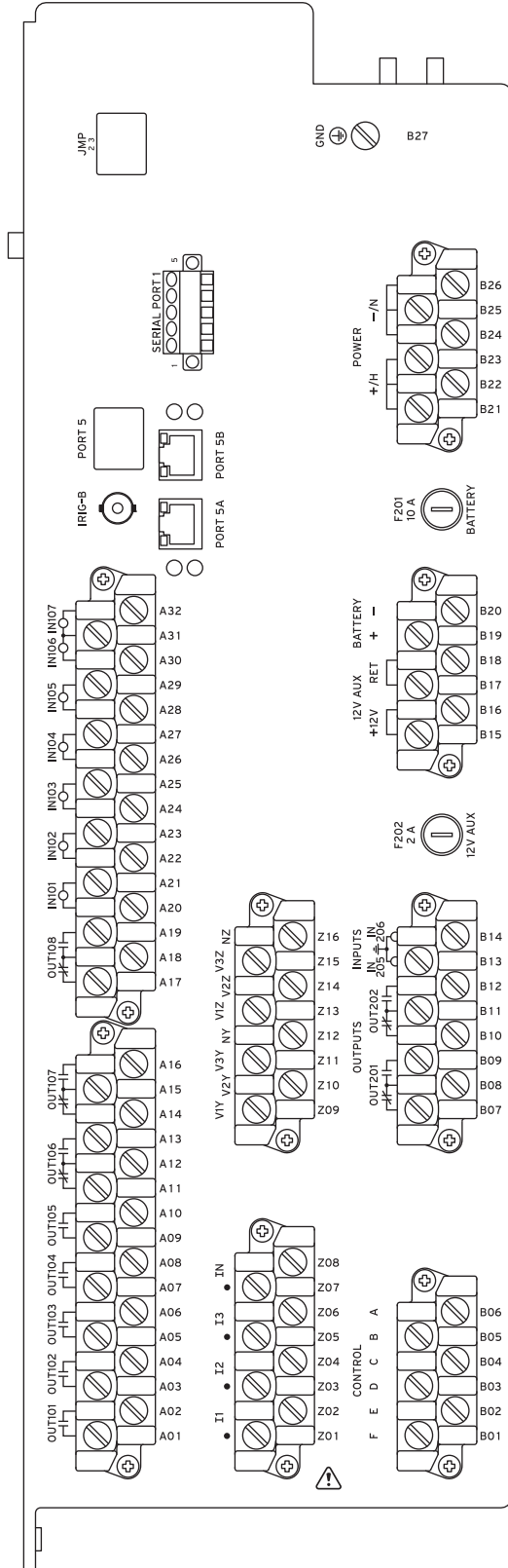
Step 4. Zip tie wires as necessary.

Wiring Diagrams

Without Fuse Block



With Fuse Block



Wiring between fuse block and control module not shown.

Factory Assistance

We appreciate your interest in SEL products and services. If you have questions or comments, please contact us at:

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