TRIADIC PACKAGE

WIRING GUIDE

DOC-194
Rev. 1.1

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INTRODUCTION

The MED Associates, Inc. Triadic System requires minimal assembly. This manual serves as a guide to complete the wiring of the system. Should further assistance be required, please contact us at www.med-associates.com.

INSTALLING INTERFACE CARDS

This section of the manual covers installation of the PCI card and the decoder card, but if the computer was purchased from MED Associates then the PCI card will be factory-installed, and if the Interface Cabinet was purchased with the system, then the decoder card will be factory-installed.

PCI Computer Interface Card

Install the PCI Computer Interface Card, following the manufacturer's instructions provided with the computer. When finished, turn the computer on. The Found New Hardware Wizard should begin automatically, but if it does not select **Start |My Computer | Control Panel | Add New Hardware**.

Instructions for installing MED-PC® IV, Delphi 5, and the hardware drivers, as well as running the hardware configuration utility are all covered in the **MED-PC IV User's Manual**. If a PC was purchased from MED Associates Inc., the software and drivers will already be installed. However, it may still be necessary to go through the hardware configuration to set user-defined options for file format, file naming, data path, and backup.

Decoder Card

Install the Decoder Card by turning off the power to the interface cabinet (SG-6080D). The 28 VDC supply must be turned off. The decoder card (DIG-700F) should be installed in the leftmost slot of the interface cabinet. Connect a two-pin molex cable from the front of the decoder card to a 28 VDC power supply in the rear of the cabinet. Refer to the figure in the SmartCTL Interface and Power Supply section of this manual.

Install the SmartCTL Interface Card(s) in sequence as needed. Make sure the ports and address offsets are set according to the instructions provided with the cards.

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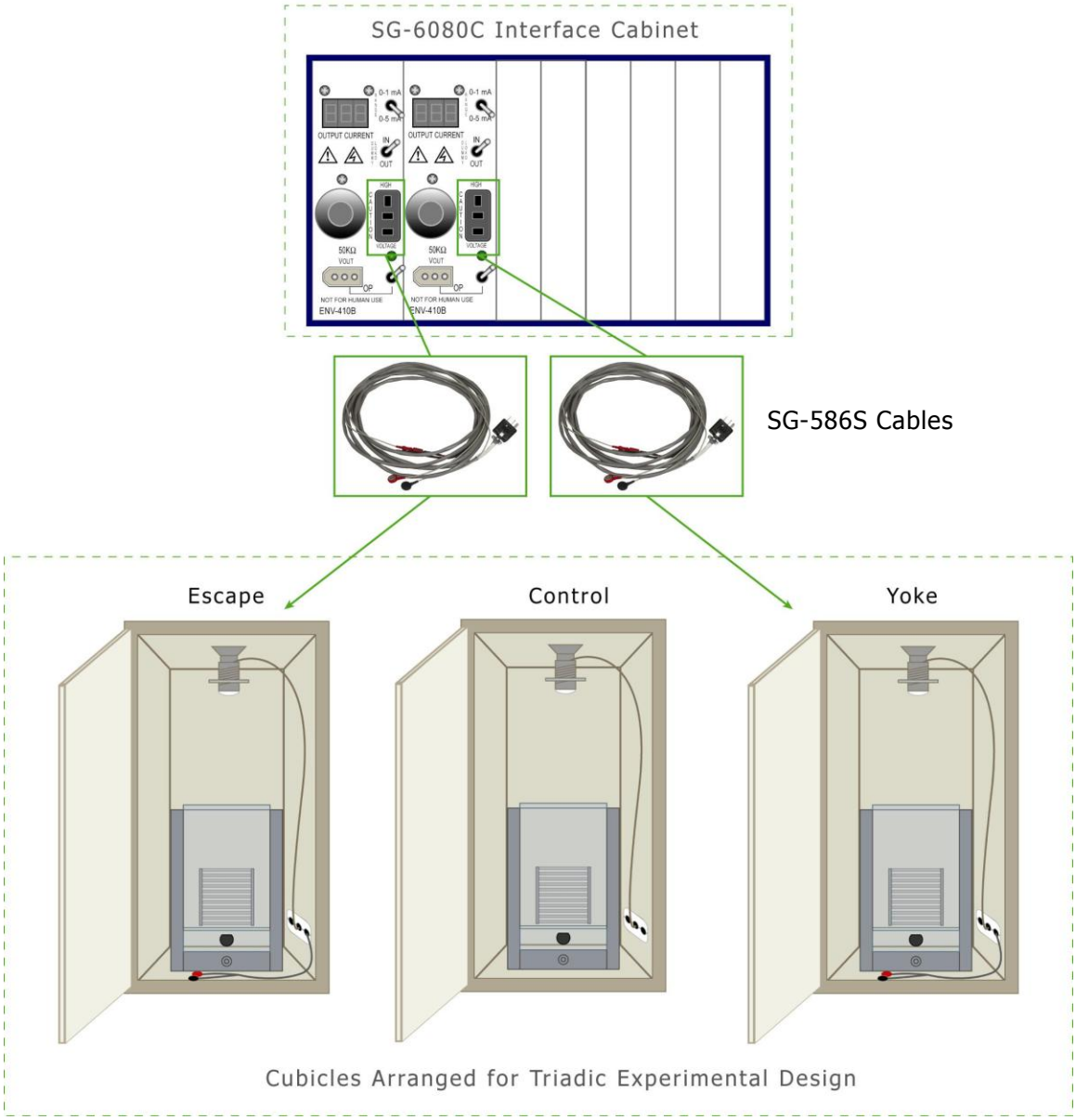
WIRING INSTRUCTIONS

Tail Aversive Stimulus Cables

Determine which cubicle position will be Escape, which will be Control and which will be Yoke. Connect the Escape position to the ENV-410B card on the left and the Yoke position to the ENV-410B card on the right, as shown below.



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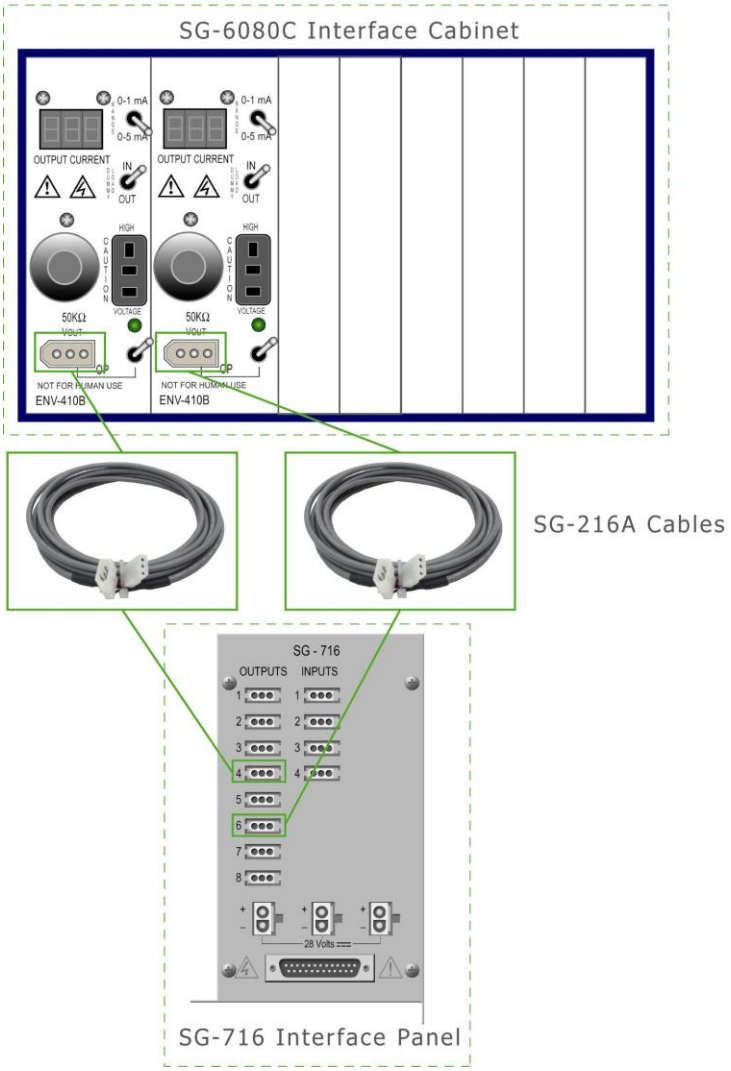
Aversive Stimulus Output Cables

The ENV-410B Card on the left corresponds to the Escape position and the ENV-410B card on the right corresponds to the Yoke position. Connect each ENV-410B card to the Output on the SG-716 indicated in the table below.

For example, in the illustration above the Left position was selected as Escape, so the left ENV-410B card should be connected to Output 4, and the Right position was selected as Yoke, so the right ENV-410B card should be connected to Output 6, as shown below.

Cubicle Position	SG-716 Output
Left	4
Center	5
Right	6



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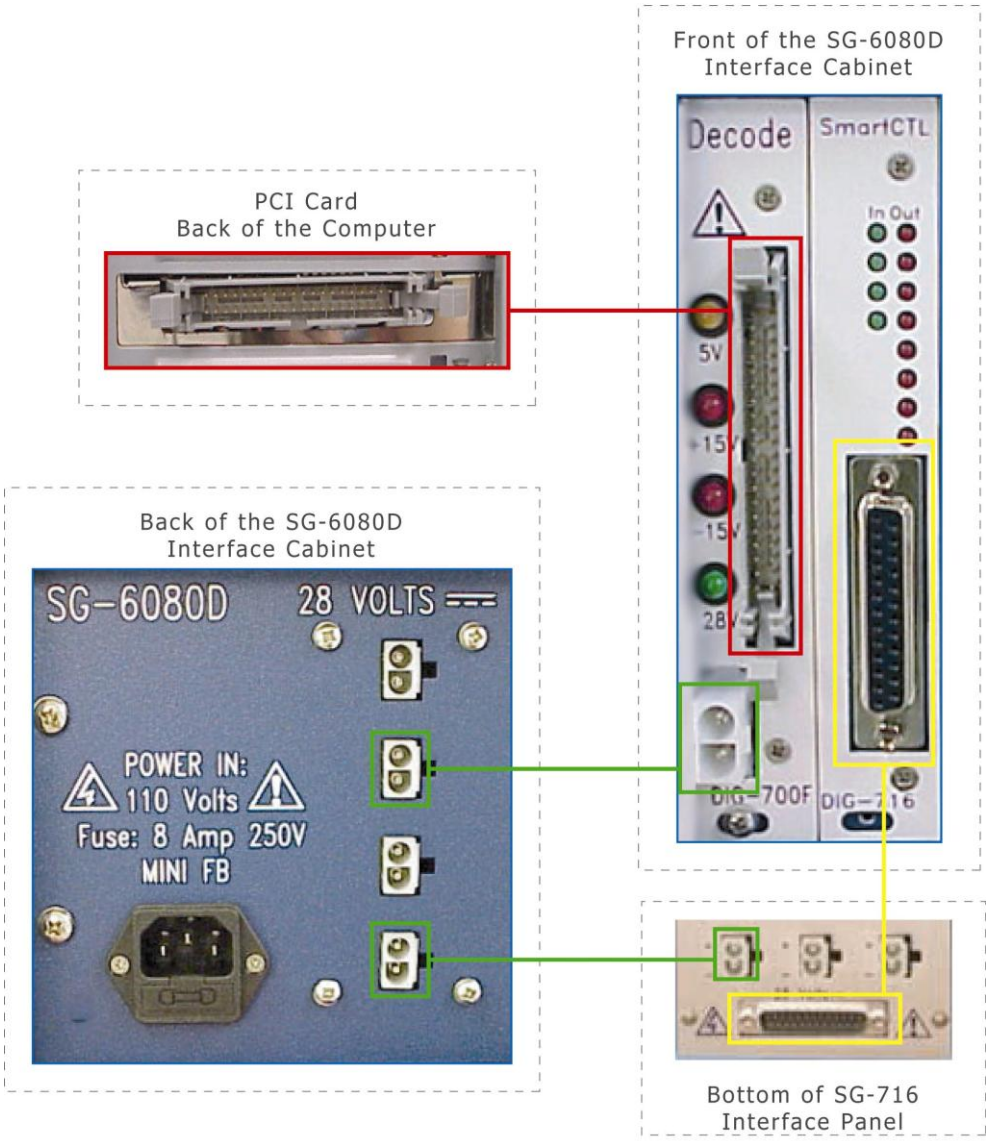
SmartCTL Interface and Power Supply

Be sure that the computer and the SG-6080D Interface Cabinet are turned off when completing these connections.



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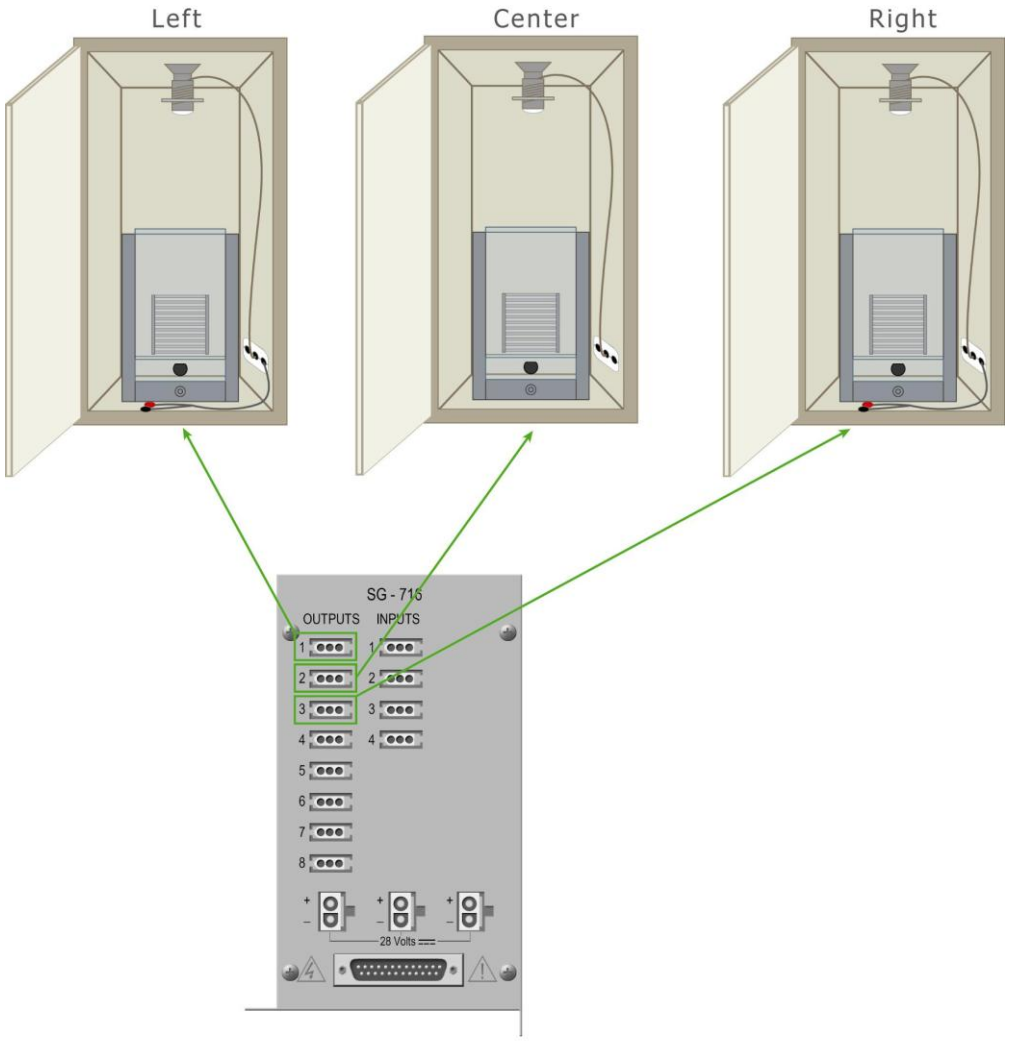
Stimulus Lights



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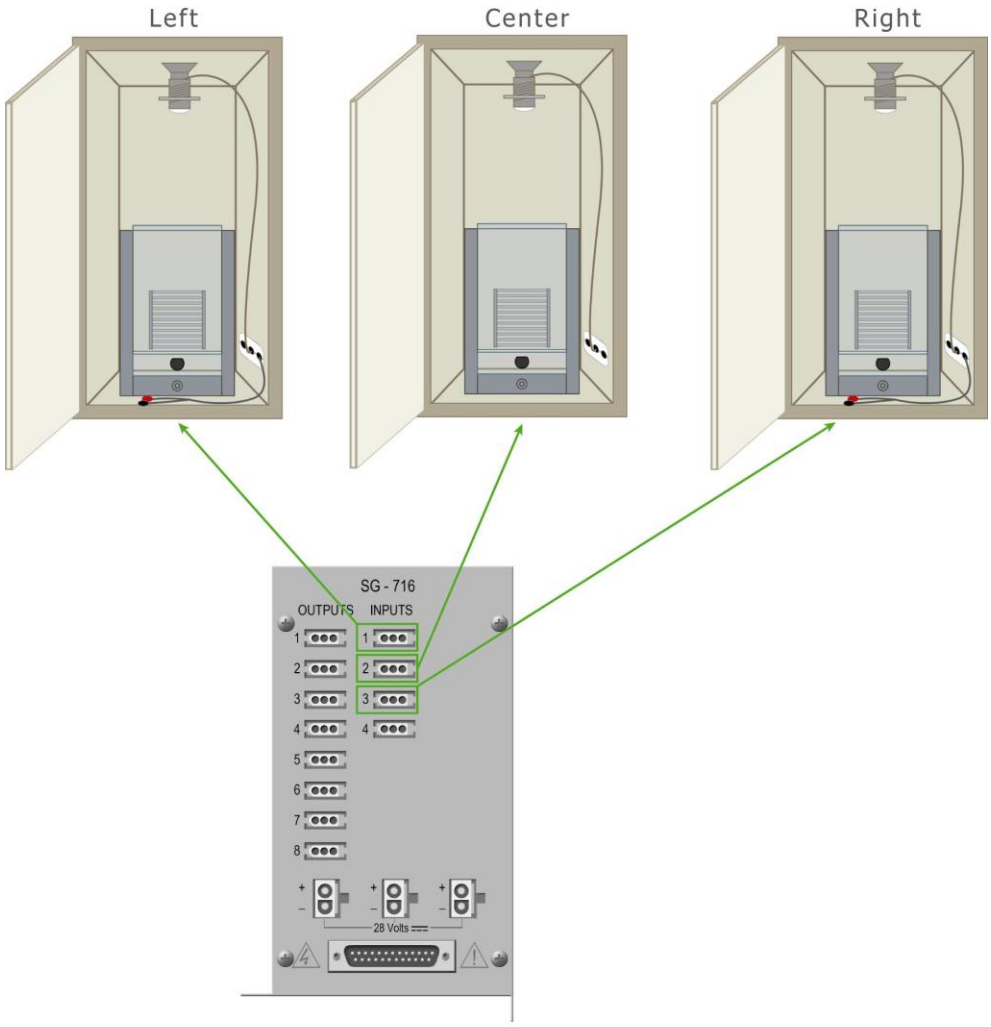
Wheel Response Cables

Each Wheel Turn Box (located inside the cubicle) has a 3-pin Molex cable. These cables should be connected as shown below.



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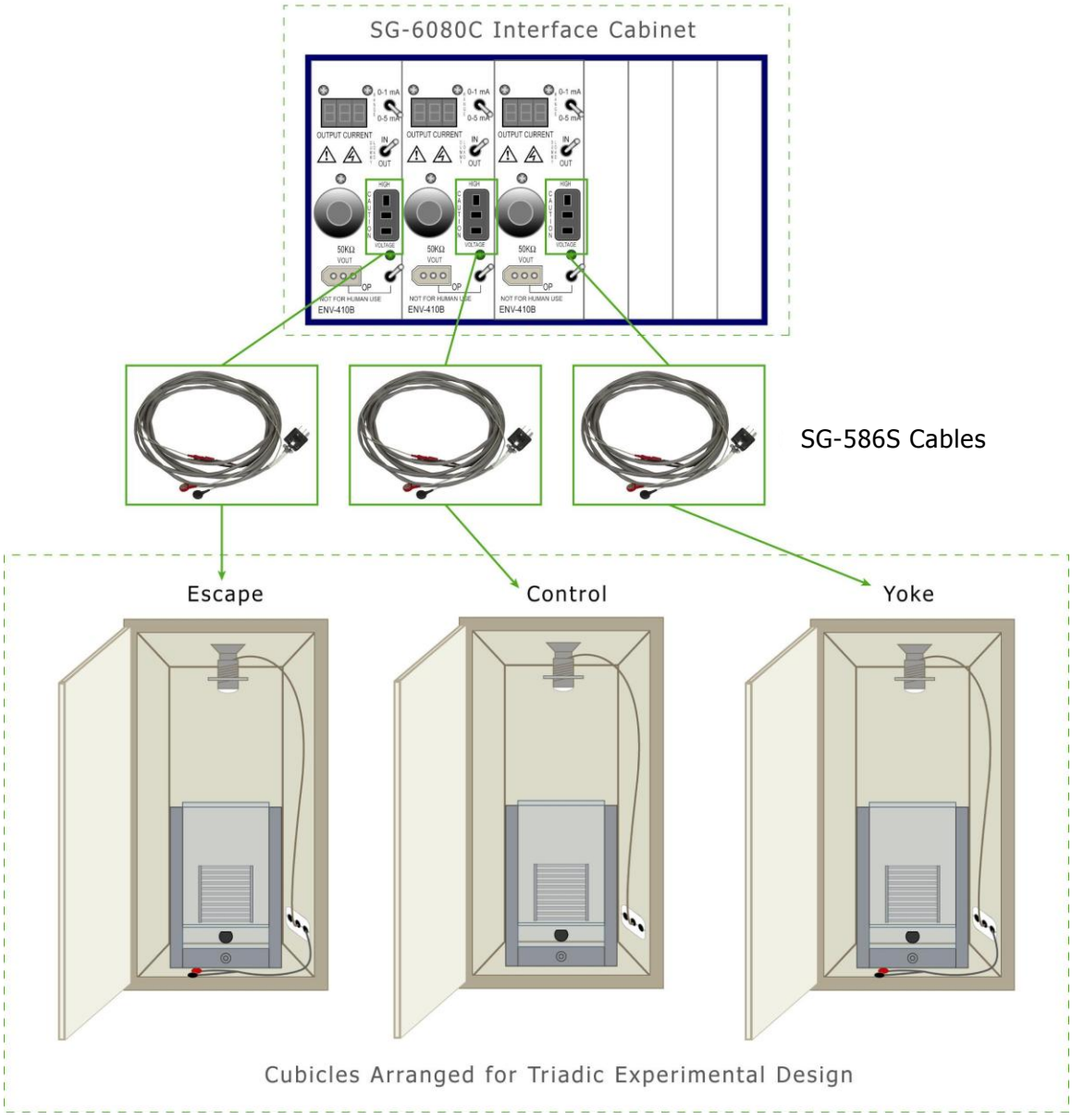
OPTIONAL ADDITIONAL TAIL AVERSIVE STIMULUS

A third ENV-410B Aversive Stimulus Unit may be added to allow delivery of tail aversive stimulus to all three subjects simultaneously. The Tail Aversive Stimulus Cable instructions and the Aversive Stimulus Output Cable instructions are different than those above, but the SmartCTL Interface and Power Supply, Stimulus Lights and Wheel Response Cable instructions remain the same.

Tail Aversive Stimulus Cables



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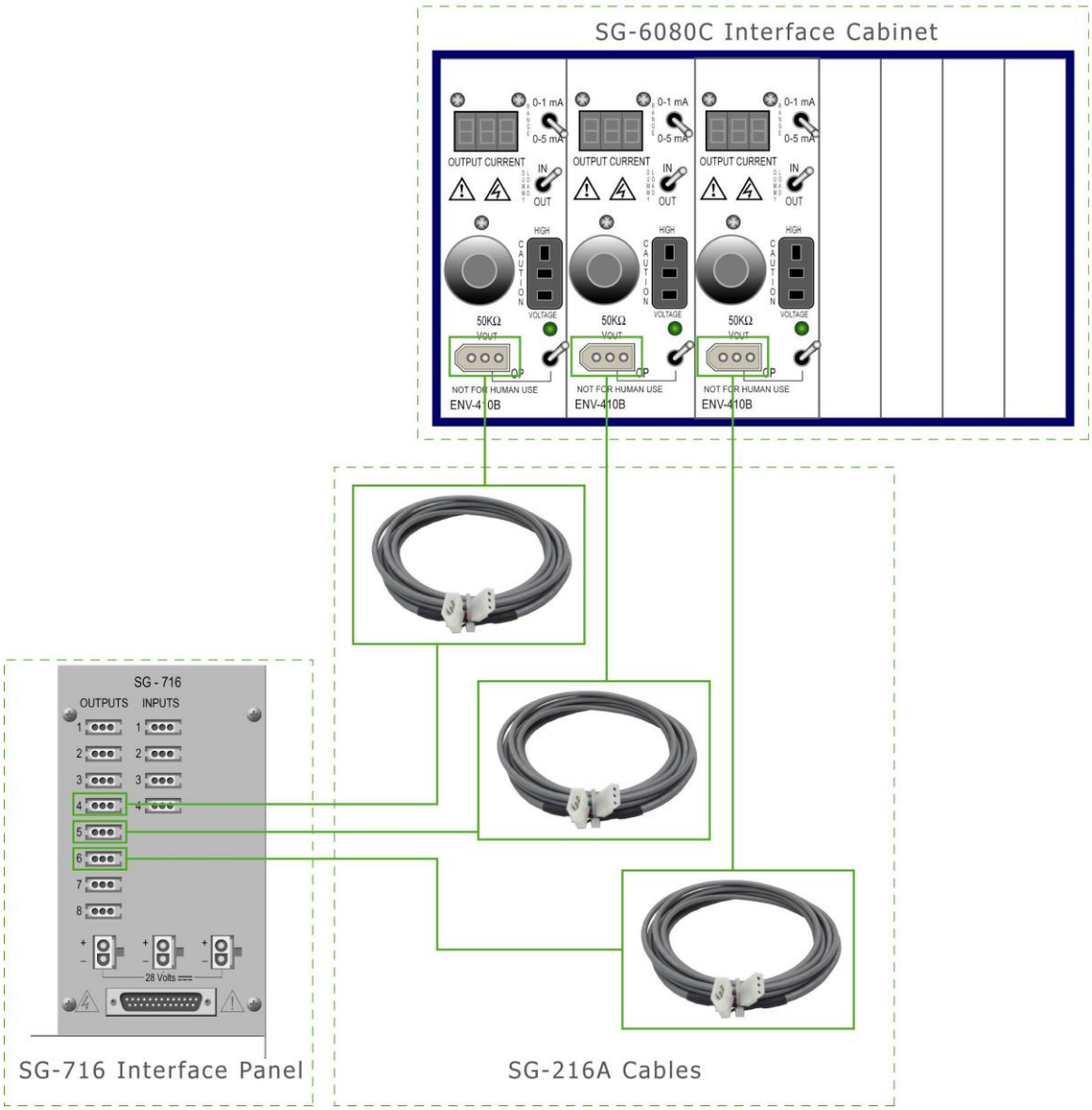
Aversive Stimulus Output Cables



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