



USER MANUAL UMAX070100

**Wire Harness Kit**  
for 25A Motor Controller, AX100100

**USER MANUAL**

P/N: AX070100

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***This product is available for laboratory bench testing purposes only. Axiomatic does not intend to sell this kit, or the individual parts therein, for production purposes. Axiomatic does not guarantee the wire harness performance in a field environment.***

The Wire Harness Kit, AX070100 is comprised of three separate part numbers.

### **AX070101, RS-232 Cable**

The RS-232 cable is provided to allow the user to communicate with the controller via the serial port of a PC. The RS-232 connector available for prototype debugging purposes, and may or may be included in a production intent controller.

### **AX070102, CAN and I/O Cable**

The wiring scheme on the 12-pin connector is as shown in the table below. Each wire is individually labeled.

<b>Pin#</b>	<b>Colour</b>	<b>Function</b>
1	Blue	CAN_L
2	Orange	CAN_H
3	Empty	(CAN Shield)
4	Yellow	AIN2
5	Black	GND2
8	Black	GND1
9	White	AIN1
10	Red	+5Vref
6	Purple	SOL2
7	Gray	SOL1
11	Black	VGND
12	Green	VOUT

### **AX070103, Power and Motor Cable**

The wiring scheme on the 4-pin connector is shown in the table below.

<b>Pin#</b>	<b>Colour</b>	<b>Function</b>
1	Red	Batt+
2	Black	Batt-
3	White/Black	Fwd-/Rev+
4	White Red	Fwd+/Rev-



## OUR PRODUCTS

Battery Chargers  
CAN bus Controls  
Current Converters  
DC-DC Converters  
DC Voltage Signal Converters  
Engine Management Controls  
Fan Drive Controllers  
Hydraulic Valve Controllers  
I/O Controls  
LVDT Simulators  
Motor Controls  
PID Controls  
Position Sensors, Angle Measurement Inclinometers  
PWM Signal Converters  
Resolver Signal Conditioners  
Service Tools  
Signal Conditioners  
Surge Suppressors

## OUR MISSION

Axiomatic is a provider of electronic machine controls, components, and systems to the off-highway, military, power generation, material handling and industrial OEM markets.

We provide efficient, innovative solutions that focus on adding value for our customers.

We emphasize service and partnership with our customers, suppliers, and employees to build long term relationships and mutual trust.

## QUALITY DESIGN AND MANUFACTURING

Axiomatic is an ISO9000:2001 registered facility.

## SERVICE

All products to be returned to Axiomatic require a Return Materials Authorization Number (RMA#).

Please provide the following information when requesting an RMA number:

- Serial number, part number
- Axiomatic invoice number and date
- Hours of operation, description of problem
- Wiring set up diagram, application
- Other comments as needed

When preparing the return shipping paperwork, please note the following. The commercial invoice for customs (and packing slip) should state the harmonized international HS (tariff code), valuation and return goods terminology, as shown in italics below. The value of the units on the commercial invoice should be identical to their purchase price.

*Goods Made In Canada (or Finland)  
Returned Goods for Warranty Evaluation, HS: 9813.00  
Valuation Identical Goods  
Axiomatic RMA#*

## WARRANTY, APPLICATION APPROVALS/LIMITATIONS

Axiomatic Technologies Corporation reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. Users should satisfy themselves that the product is suitable for use in the intended application. All our products carry a limited warranty against defects in material and workmanship. Please refer to our Warranty, Application Approvals/Limitations and Return Materials Process as described on [www.axiomatic.com/service.html](http://www.axiomatic.com/service.html).

## CONTACTS

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