

MAXPRO200[®] Hypernet Upgrade

Field Service Bulletin

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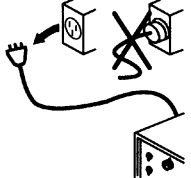
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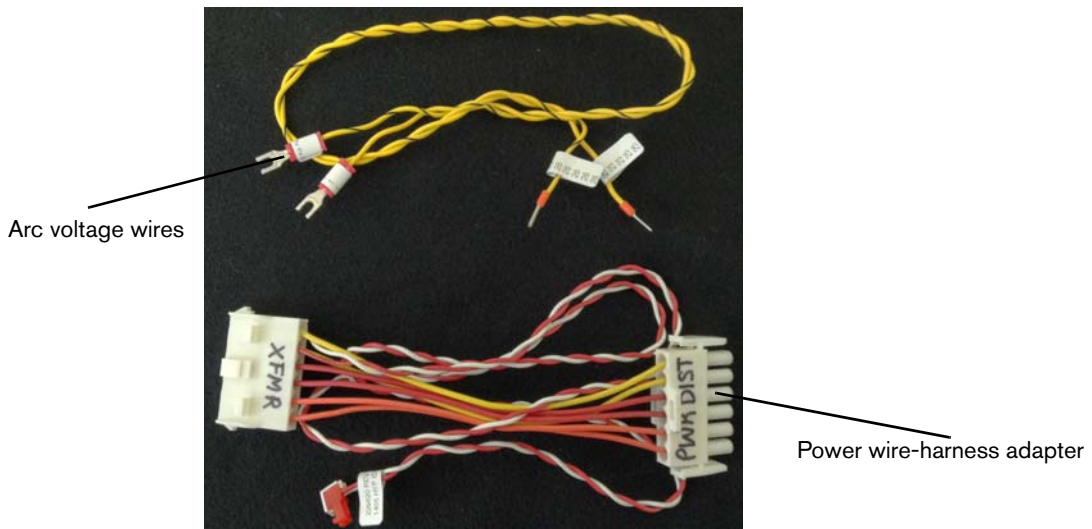
		<p>WARNING! ELECTRIC SHOCK CAN KILL</p>
		<p>Disconnect electrical power before performing any maintenance.</p> <p>All work requiring removal of the power supply cover must be performed by a qualified technician.</p> <p>See the <i>Safety</i> section of the system's manual for more safety precautions.</p>

Introduction

This Field Service Bulletin explains how to install the Hypernet PCB in the MAXPRO200 power supply to allow the use of an ArcGlide torch height controller.

428276 – kit contents



Part number	Description	Quantity
141162	Hypernet PCB	1
229620	Power wire-harness adapter	1
229621	RS422 and discrete communication cable	1



Required tools and materials

- Number 2 Phillips screwdriver
- Small blade screwdriver
- 3/8 inch wrench

Install the PCB in the power supply

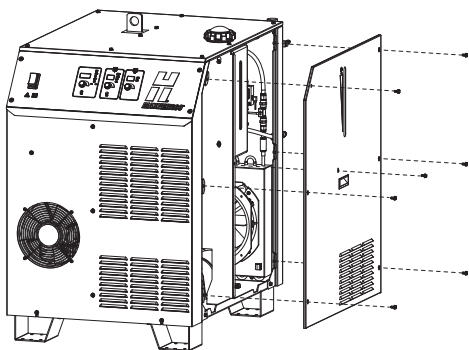
	CAUTION!
	<p>Static electricity can damage circuit boards. Use proper precautions when handling printed circuit boards.</p> <ul style="list-style-type: none">- Store PC boards in anti-static containers.- Wear a grounded wrist strap when handling PC boards.

1. Turn OFF the power to the power supply.



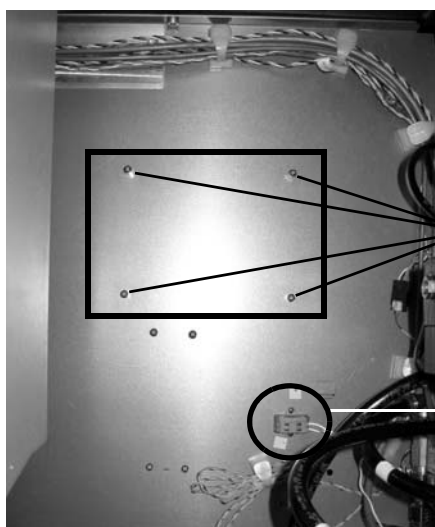
The Hypernet PCB does not support the remote on/off feature when connected to the MAXPRO200

2. Use a 3/8 inch wrench to remove the right-side panel from the power supply. Repeat for removing the left-side panel.



3. Mount the Hypernet PCB to the center panel.

- a. Remove the screws from the four standoffs near the top of the center panel.



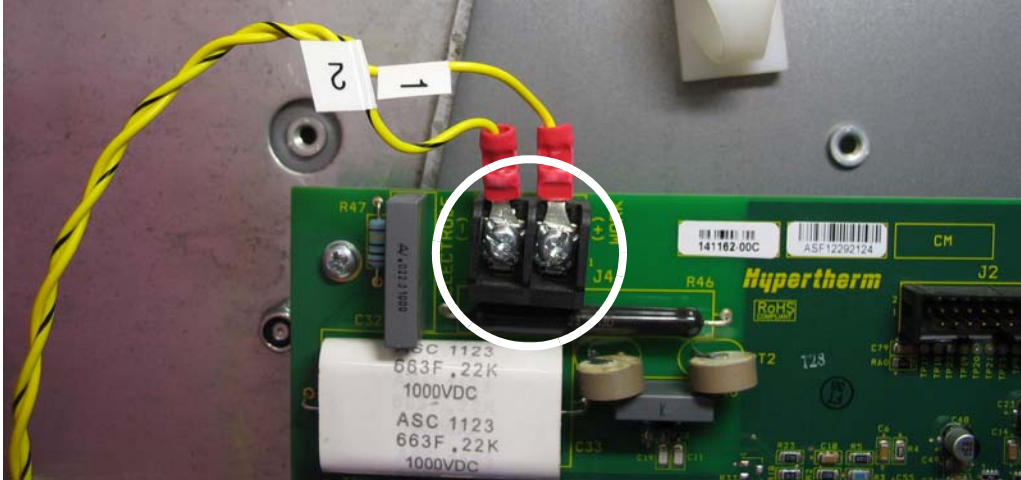
Standoffs for mounting the Hypernet PCB to the center panel

Terminal strip

- b. Line up the holes in the corners of the PCB with the four standoffs, then secure the PCB to the standoffs using the screws you removed in the previous step.

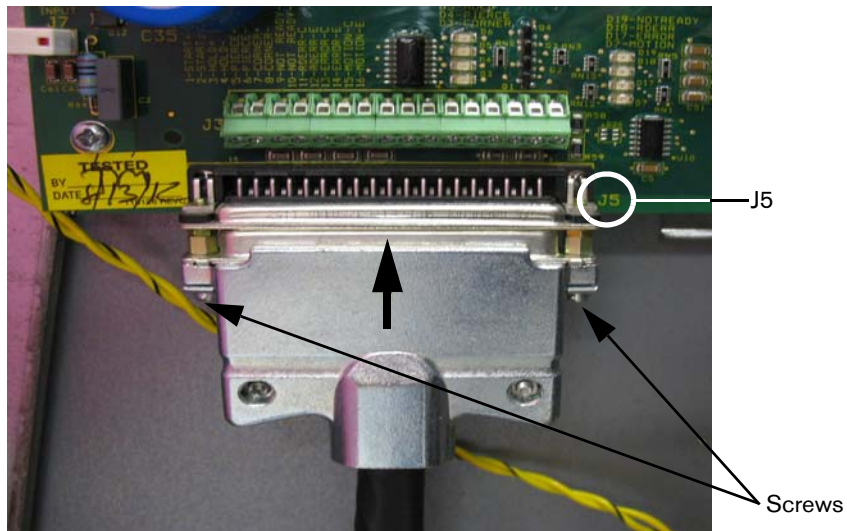


Be sure to install the PCB so that the arc voltage terminal strip is at the top of the PCB as shown below.



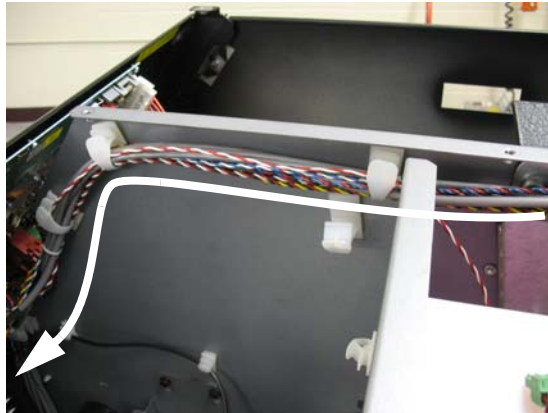
4. Connect the communication cable (229621) from the Hypernet PCB to the control PCB:

- a. Insert the DB37 connector into the J5 receptacle on the Hypernet PCB and secure it using the 2 screws on the connector.

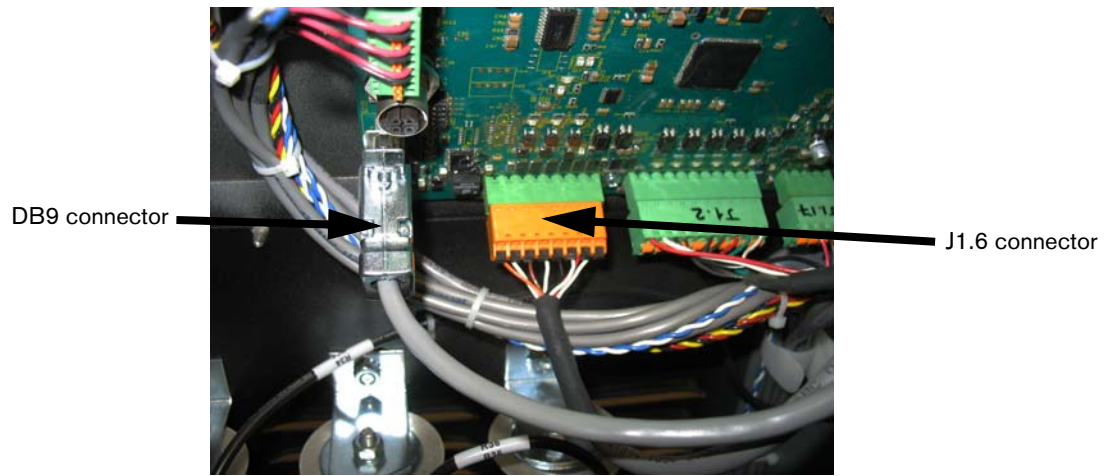


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- b.** Route the communication cable along the center panel to the control PCB with the other wires and cables.



- c.** Connect the DB9 connector to the DB9 receptacle and the orange J1.6 connector to the receptacle on the control PCB as shown below.



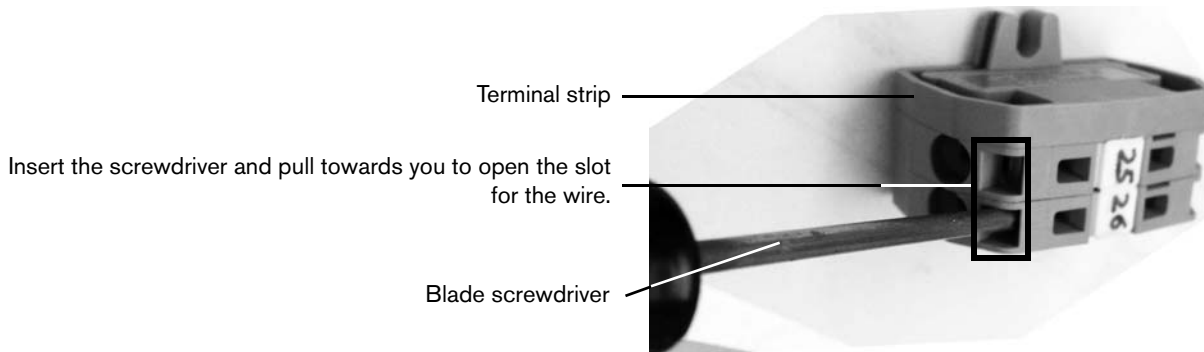
5. Connect the yellow and yellow/black arc voltage wires from the left side of the gray terminal strip (mounted on the center panel) to the Hypernet PCB.



The arc voltage wires must be inserted into the correct slots in the terminal strip to ensure matching polarity. The yellow “25” wire has positive (+) polarity; the yellow/black “26” wire has negative (-) polarity.

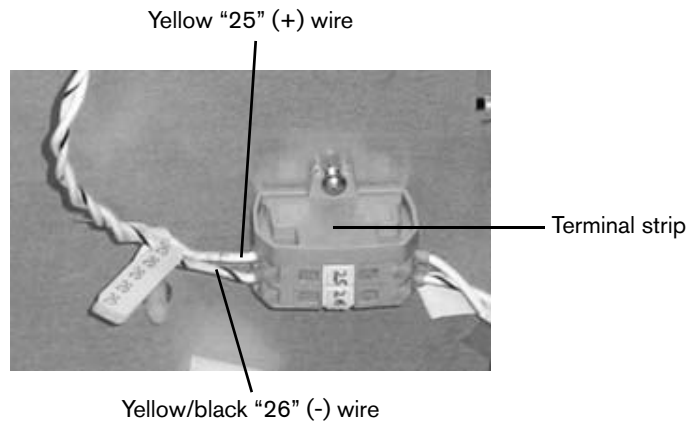
- a. To secure the wires in the terminal strip, first insert a small blade screwdriver in the square opening on the side of the terminal strip, as shown below. Pull the screwdriver towards you to open the contact in the circular slot below it.

Opening the contacts in the terminal strip



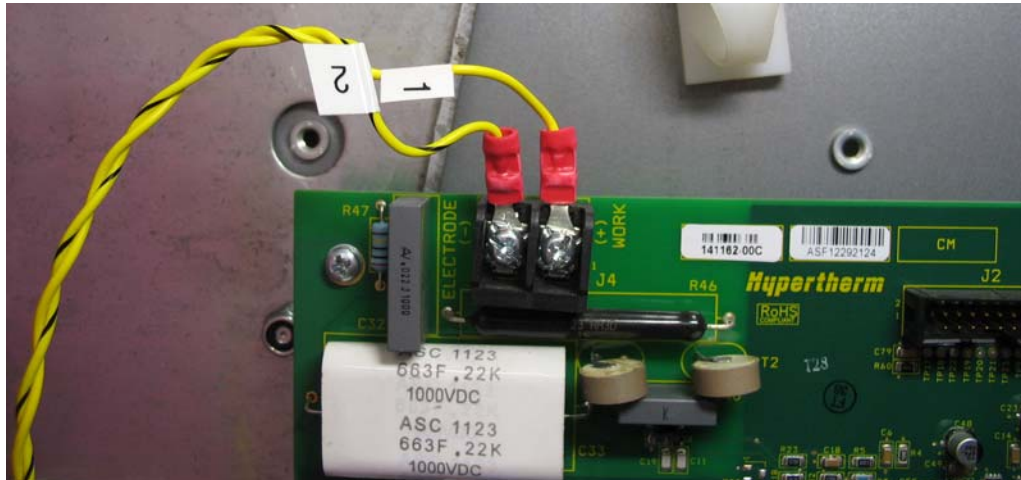
- b. Run the wires down the left side of the Hypernet PCB and insert the arc voltage wire into the circular slot as follows (see figure below):
- Insert the yellow wire (labeled “25”) into the circular “25” slot on the side of the terminal strip.
 - Insert the yellow/black wire (labeled “26”) into the circular “26” slot on the side of the terminal strip.
- c. Remove the screwdriver to release the contact, and verify that the wire is now held securely in place.

Connecting the arc voltage wires to the terminal strip



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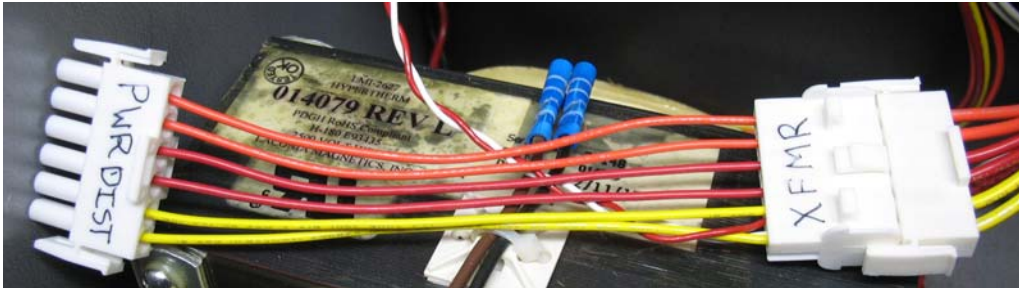
- d. Connect the yellow and yellow/black arc voltage wire group (229620) to the J4 terminal strip on the Hypernet PCB as shown in the following picture.
- Connect the fork terminal for the yellow arc voltage wire (labeled “1”) to the connector labeled “(+)
WORK” on the PCB.
 - Connect the fork terminal for the yellow/black arc voltage wire (labeled “2”) to the connector labeled “ELECTRODE (-)” on the PCB



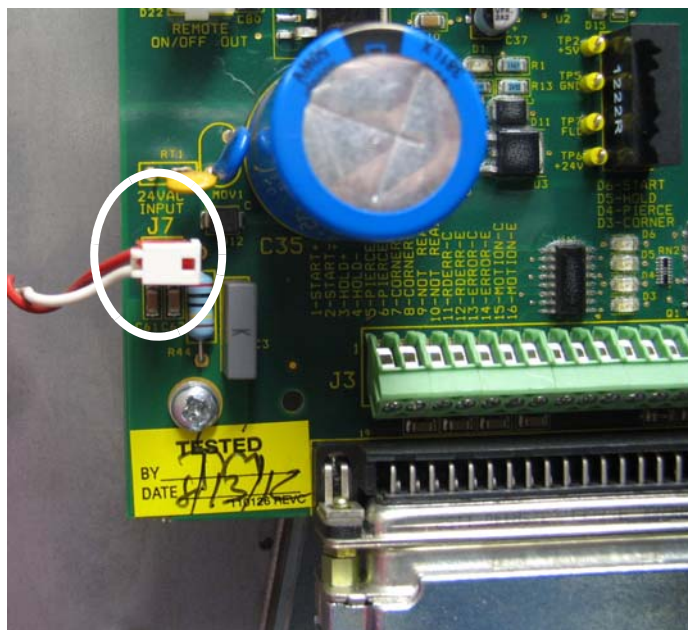
6. Connect the power wire-harness adapter from the control PCB to the Hypernet PCB.
- a. Remove the connector from the J9 receptacle on the control PCB.



- b. Insert the end of the power wire harness adapter marked "XFMR" into the connector you removed from the J9 receptacle.
- c. Insert the end of the power wire harness adapter marked "PWRDIST" into the J9 receptacle.



- d. Feed the Red and white wires through the gap between the center panel and the back of the control panel. Route the wires along the center panel to the Hypernet PCB with the other wires and cables (see the picture under step 4b for reference).
- e. Insert the connector into the J7 receptacle on the Hypernet PCB as shown below.



- 7. Verify that all wire groups are properly connected in the power supply. Also check to make sure that all of the wire connections are secure.
- 8. Use the screws you removed in Step 2 to secure the right-side and left-side panels back in place.
- 9. Installation is complete.

