

MAXPRO200 Control Board Replacement

Field Service Bulletin

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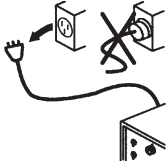
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		DANGER! ELECTRIC SHOCK CAN KILL
 Before working on the plasma torch or system, safely disconnect gasses, coolant, and power.		

Introduction

Purpose

This Field Service Bulletin (FSB) describes the procedure for replacing the MAXPRO200 control board.

Tools and materials needed

- TORX T20 screwdriver
- Phillips #1 screwdriver

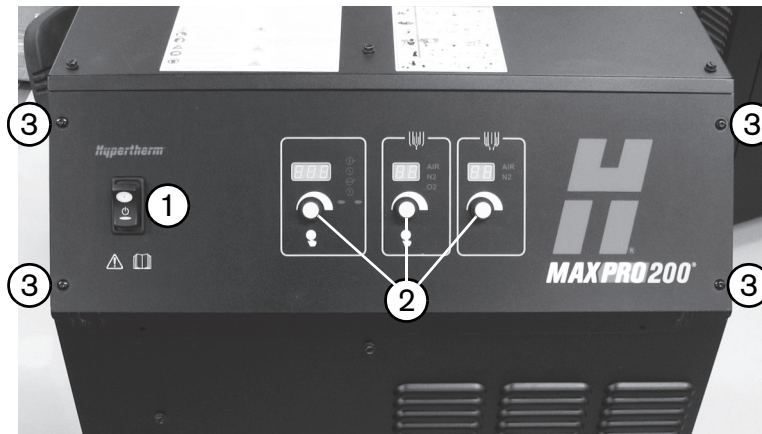
Kit 428167 contents (MAXPRO200)

Part number	Description	Quantity
141171	MAXPRO200 control board	1

Removing the old control board

1. Turn OFF the power switch (1) on the MAXPRO200 front panel.
2. Turn OFF the main disconnect switch that provides power to the MAXPRO200.
3. Remove the three control-panel knobs (2) from the front panel.

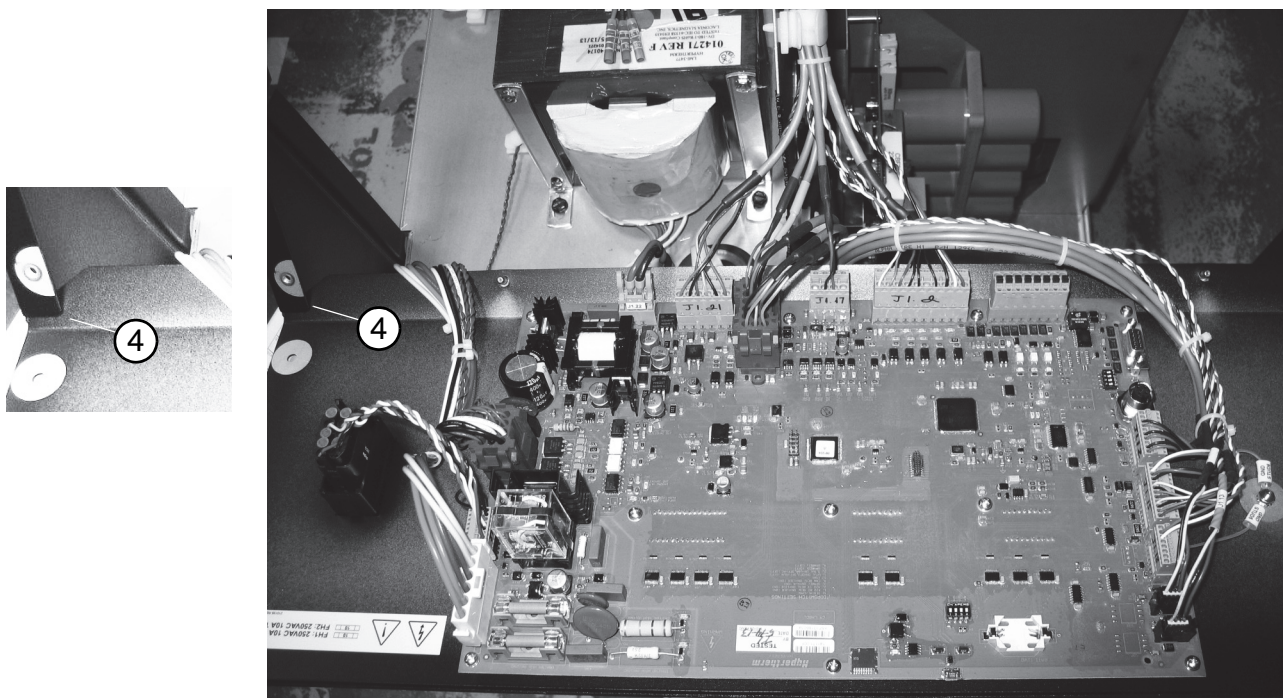
Figure 1 Front panel



4. Remove the four screws (3) from the front panel.
5. Being careful not to damage the control board wires and connectors, pull the front panel a small distance away from the chassis.
6. Tip the top of the front panel away from the chassis.

7. Insert the angled metal tab at the bottom of the front panel into the corner slots in the chassis just below the control panel opening. Figure 2 shows the angled metal tab (4) in the left-hand slot. The right-hand slot is similar.

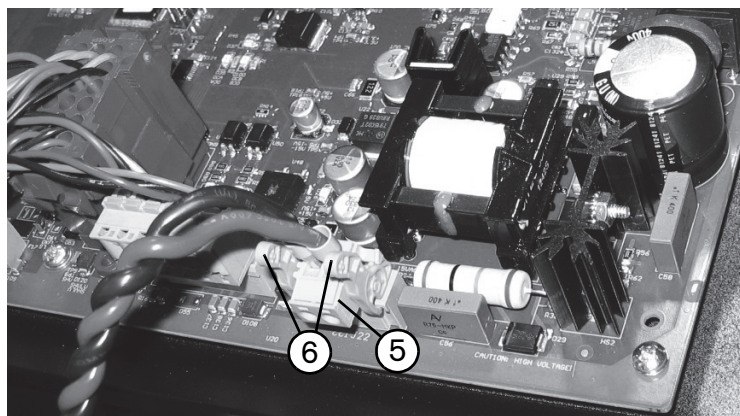
Figure 2 Control board accessible for disconnecting wires



8. While securely holding the front panel, carefully disconnect the wire connectors from the control board.

Note: To unlock connector J22 (5), rotate both orange levers (6) toward the top edge of the control board. Then, remove the connector from the control board.

Figure 3 Connector J22 with orange levers



9. Remove the 11 mounting screws to release the control board.
10. Remove the old control board and set aside.

Installing the new control board

1. Position the new control board on the rear of the front panel.
2. Secure the new control board to the control panel using the 11 mounting screws. Tighten the screws to 1.2 N-m (10 inch-pounds).
3. While securely holding the front panel, carefully reattach the wire connectors to the control board.
 - ❑ Push connector J22 into the receptacle on the control board. Verify that the orange levers lock connector J22 into place. If necessary, rotate both levers toward the bottom of the control board.
 - ❑ In the upper-left corner of the control board, reconnect J13 and J11 to their corresponding receptacles.

Note: The remaining connectors only fit the corresponding receptacles on the control board.

4. Remove the front panel from the chassis slot. Position the front panel over the opening in the chassis.
5. Insert the top edge of the front panel under the edge of the power supply cover.
6. Secure the front panel to the chassis using the four screws. Tighten the screws to 3.3 N-m (29 inch-pounds).
7. Replace the three knobs on the front panel.