

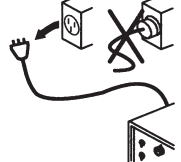


MAX100[®] Potentiometer Replacement

Field Service Bulletin

805680 – Revision 0 – June, 2007

Hypertherm[®]

		<p>DANGER ELECTRIC SHOCK CAN KILL</p>
	<p>Disconnect electrical power before performing any maintenance. See <i>Section 1</i> of the Operator Manual for more safety precautions.</p>	

Introduction

Purpose

Tools and materials needed

- #2 Phillips screwdriver
- Allen wrench, 1/16 in
- Soldering iron and solder

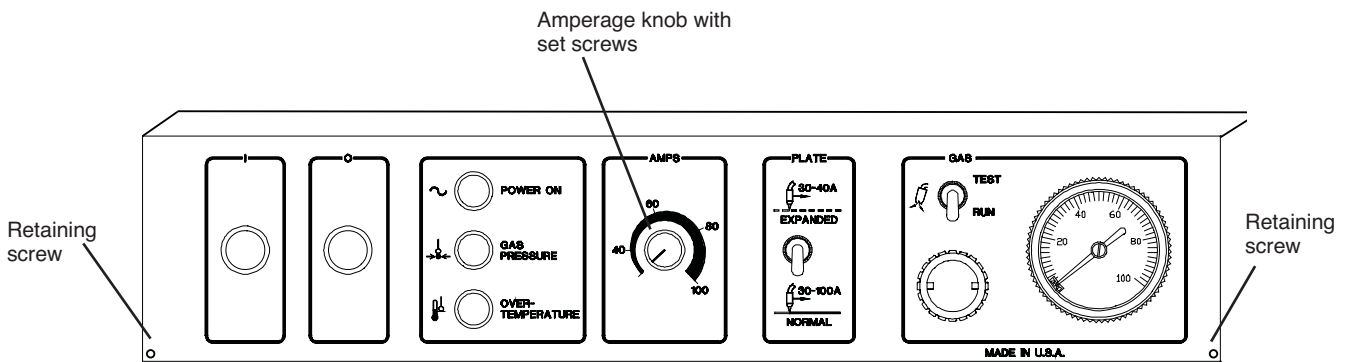
Kit contents

Kit 228213

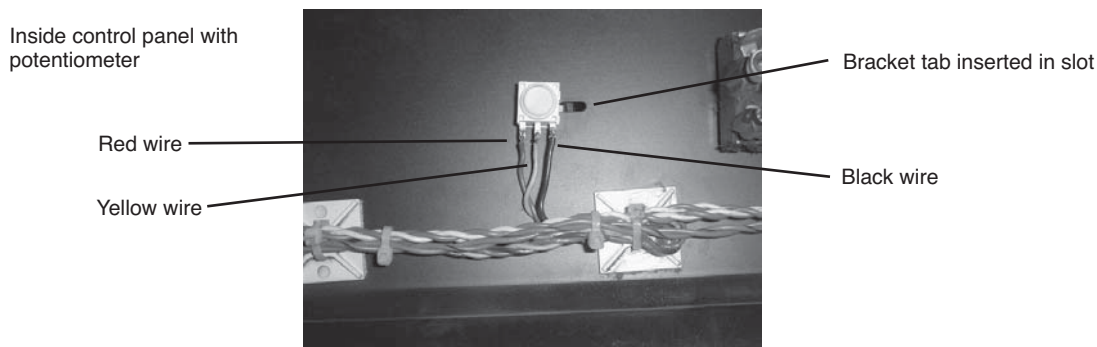
Part number	Description	Qty
009483	POT:1K-OHM 1W	1

Replace the potentiometer

1. With the electrical power and gas supply disconnected, remove the 4 screws from the top of the MAX100 and lift off the top panel.
2. Use an allen wrench to loosen the 2 set screws on the amperage knob on the front panel and remove the knob.
3. Remove the nut and washer from the amperage knob post
4. Remove the 2 retaining screws from the control panel.
5. Flip up the control panel up so that you have access to the connections on the inside. To avoid damaging the connections, do not attempt to pull it away from the power supply. From the inside, pull the old potentiometer out of the control panel.



5. Cut the red, yellow, and black wires as close to the potentiometer as possible.
6. There are two possible potentiometer replacements for the MAX100.
 - A. If the top of the potentiometer is blue, insert the post through the hole in the front panel, make sure that the pins are pointing towards the wires as shown below, and then tighten the nut and washer onto the post.
 - B. If the top is white, slide the metal bracket over the post of the potentiometer, then insert the post through the hole in the front panel. Make sure the tab on the bracket rests in the slot in the front panel and that the pins are pointing towards the wires as shown below. Tighten the nut and washer onto the post.



7. Attach the red, yellow, and black wires to the potentiometer pins in that order from left to right. Feed the red wire through the hole in the pin on the left side of the potentiometer. Loop the end of the wire back and solder it in place. If there is not enough wire exposed, strip off some of the plastic coating. Repeat this process with the yellow and black wires.
8. On the outside of the control panel, turn the potentiometer post all the way to the right. Push the amperage knob onto the potentiometer post. Make sure that the white line points to 100 amps.
9. When the alignment is correct, tighten the set screws.
10. Reposition the control panel and use the 2 screws to fasten it into place.
11. Replace the top panel.
12. Reconnect the gas supply and the electrical power.

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