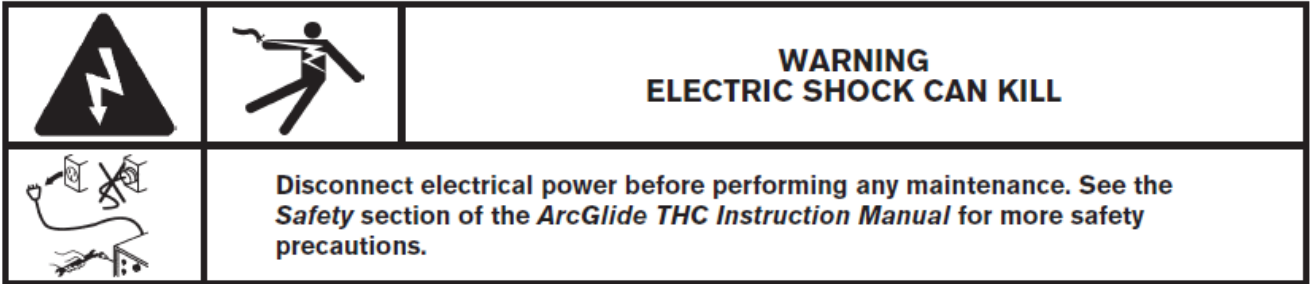


ArcGlide Snubber Upgrade Kit

Field Service Bulletin

807200 – Revision 0 – October, 2010

Hypertherm®



Introduction: This Field Service Bulletin (FSB) describes the installation of a snubber circuit (Kit number 228781) into a HPR power supply. The snubber circuit is required to prolong the life of the Remote On relay used in the ArcGlide motor control (Part number 090054).

Background: The ArcGlide motor control can remotely turn ON and OFF the HPR power supplies using the Remote On relay output inside the ArcGlide control module. The relay is a general purpose relay designed for use with AC or DC circuits. When the Remote On output is used with the HPR plasma supply and its AC Power On circuit, a protective snubber circuit must be added prevent electrical arcs between the relay contacts when the relay opens or closes. When this snubber circuit is placed across the relay contacts, it absorbs the current spikes and prevents the relay contacts from welding together and shortening the life of the relay.

Requirements: The snubber circuit is only required with a Hypertherm ArcGlide voltage divider card (Part number 090052) that was manufactured before October 18th, 2010.

HPR plasma supplies that use the HPRXD Hypernet interface board (Part number 141162) do not need this snubber circuit.

Kit 228781 contents:

Part Number	Description	Quantity
229422	Snubber Assembly, ArcGlide RC	1
807200	FSB: ArcGlide Snubber Upgrade Kit	1

Instructions:

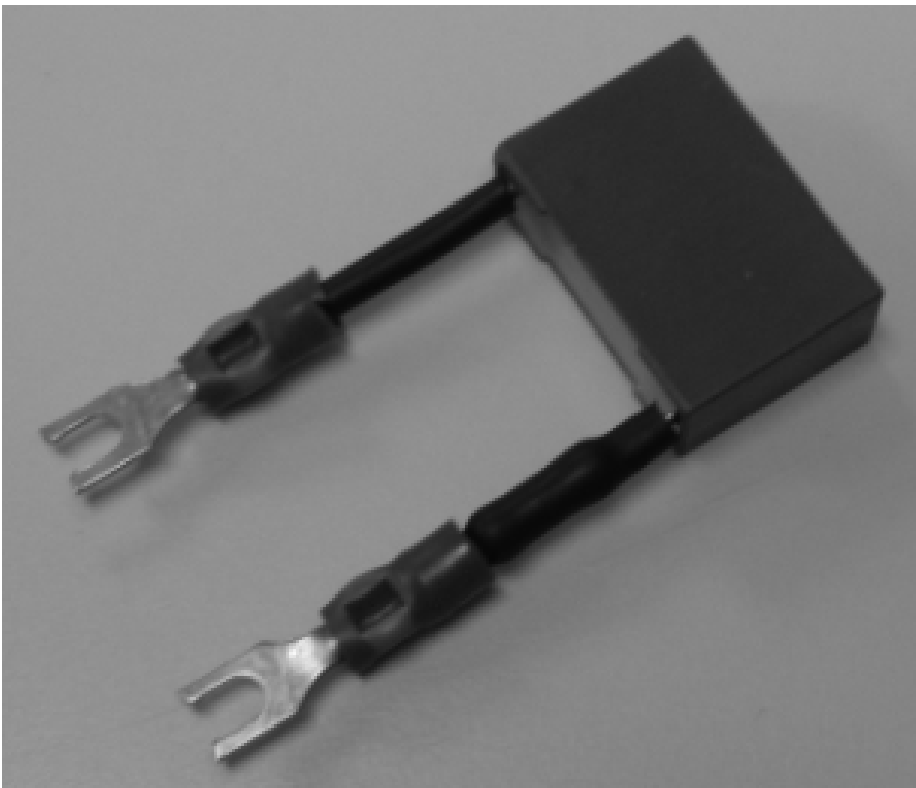
1. Shut off main power to the HPR plasma system and to the ArcGlide THC.
2. Remove the left side panel of the HPR130, HPR260 or HPR400 power supply.
3. Locate Terminal Block 2 in the power supply.
4. Confirm the wiring of the remote On/Off circuit to TB2 inside the HPR (refer to the wire diagram within the HPR Installation Manual).

HPR internal wiring from TB2 terminal strip to the Power Distribution board (PCB2):

- Red wire from TB2-1 to PCB2
- White wire from TB2-3 to PCBS2

Remote On wiring from J3 on Voltage Divider board to TB2:

- Remote On A to TB2-1
 - Remote On B to TB2-3
5. Remove the Snubber Circuit from its packaging



6. Install the Snubber Circuit across Terminals 1 and 3 of TB2, as shown in the following illustration.



