



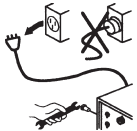
MicroEdge PCBS-89 Motherboard Replacement

Field Service Bulletin

807140 – Revision 0 – July 2010

Hypertherm®

MICROEDGE PCBS-89 MOTHERBOARD REPLACEMENT

		WARNING ELECTRIC SHOCK CAN KILL
	Engage the emergency Stop button on the CNC and disconnect electrical power before performing any maintenance.	

Introduction

Purpose

This FSB describes the steps for replacing the PCBS-89 motherboard with the PCBS-0124 motherboard in the MicroEdge CNC.

Materials and tools

No. 2 Phillips screwdriver

Kit 228419 contents

Part number	Description	Qty
PCBS-0124	PCB: Motherboard	1
CABL-0277	Cable: 20C/24C Motherboard power 10"	1
CABL-0281	Cable: PS_ON, 10.5", MicroEdge	1
807140	FSB: MicroEdge PCBS-89 Motherboard Replacement	1

Remove the motherboard

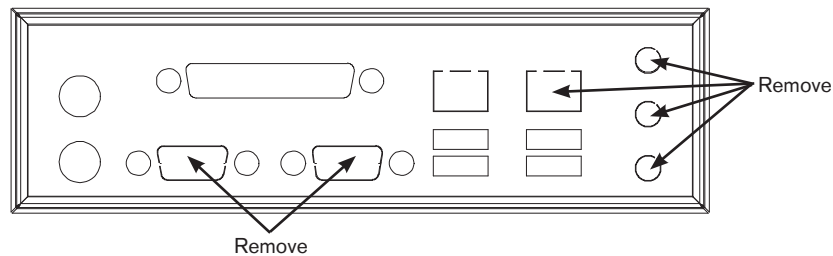
Before you begin to remove the motherboard, take careful notes about the position and orientation of all cables as you disconnect them.

1. To open the front panel, remove the screws that secure the cover and remove it.
2. Unplug the cables on the motherboard.
3. Carefully remove the 512 MB DRAM module and set it aside so it can be reinstalled on the new motherboard.
4. Remove all the hardware that secures the PCBs to the motherboard.
5. Unplug cables to the PCBs.
6. Slide the PCBs from their connectors on the motherboard.
7. Remove the screws that secure the motherboard to the subchassis.
8. Lift the motherboard out of the enclosure.

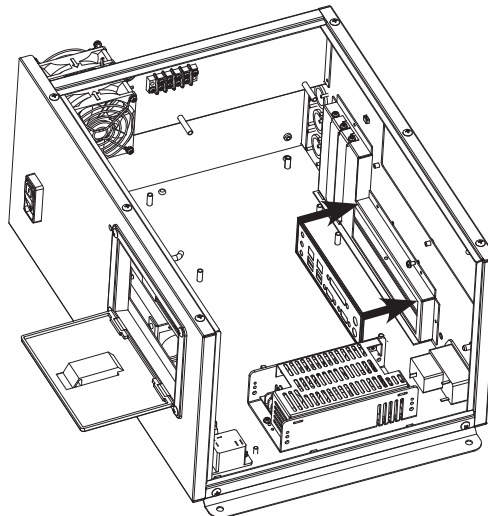
Replace the motherboard I/O panel

This motherboard replacement kit includes a new I/O panel for the motherboard. To replace the I/O panel:

1. Remove the motherboard I/O panel from the CNC enclosure.
2. Remove the knockouts from the I/O panel as shown in the following illustration.

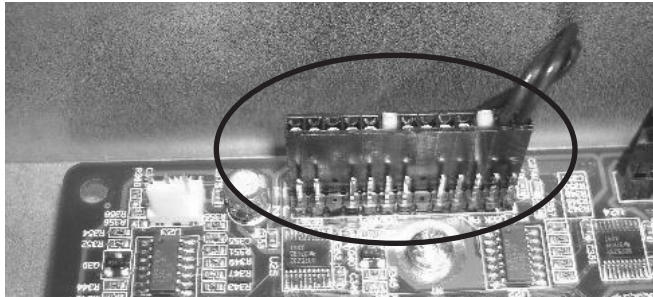


3. Install the new I/O panel by snapping it in place from inside the enclosure, as shown in the following illustration.



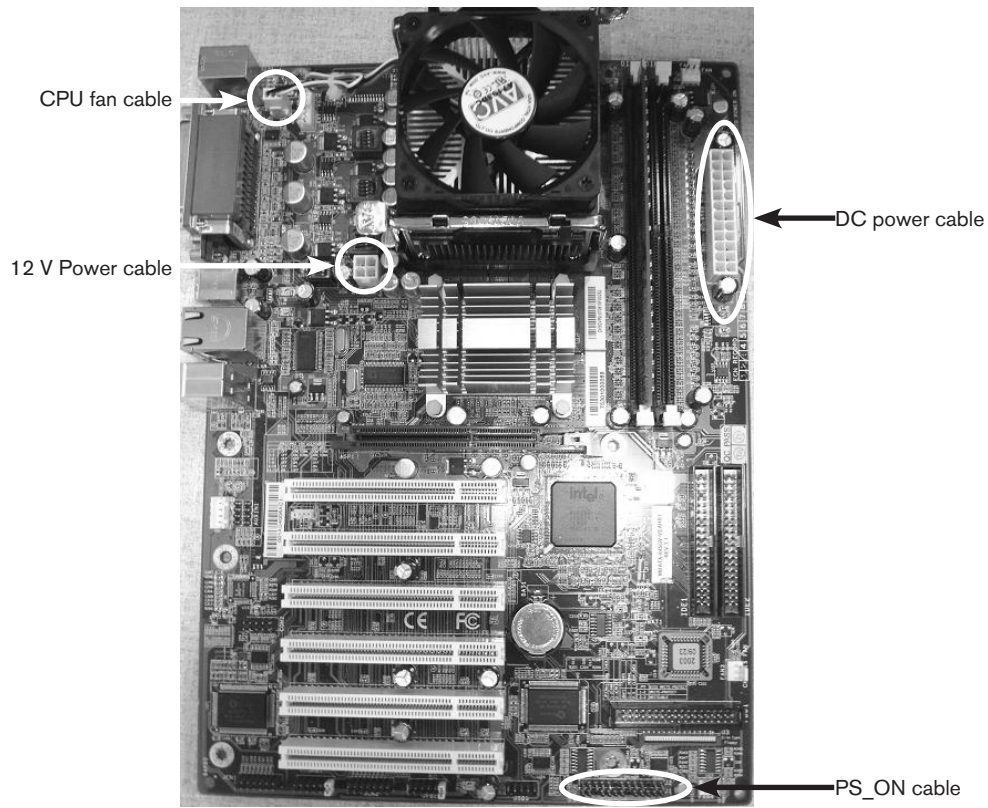
Install the new motherboard

1. Remove the new motherboard from the packaging.
2. Align the mounting holes in the motherboard with the standoffs on the subchassis.
3. Refasten the screws to the standoffs.

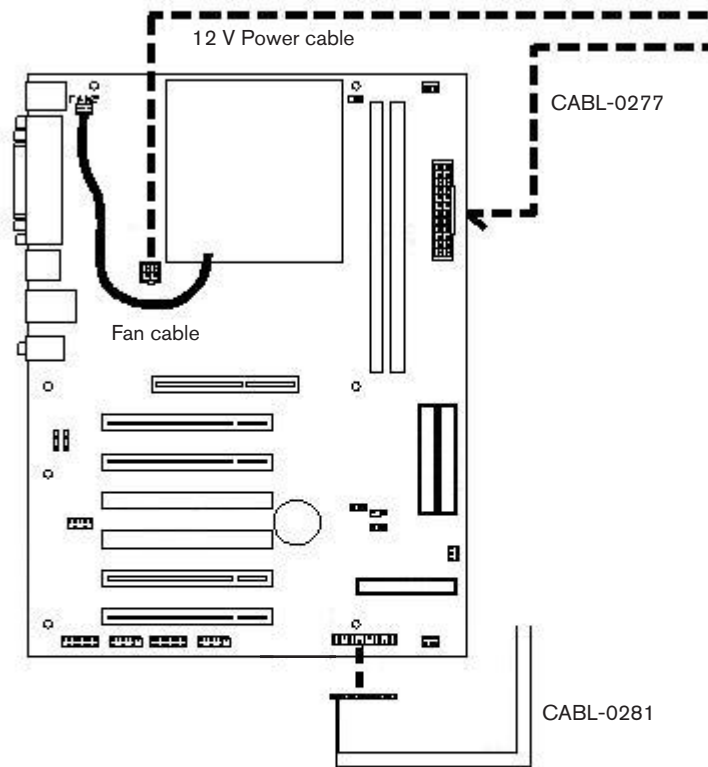


Location and orientation of the PS_ON cable connector in a MicroEdge installation

4. Insert the PCBs into the appropriate slots on the motherboard.
5. Reconnect the PCB fasteners and cables you removed earlier.



PCBS-0124 Motherboard with connectors



MicroEdge motherboard wiring

Replace cables

1. Connect the DC power cable (CABL-0277) from this kit to the DC power connector on the motherboard.
2. Connect the PS_ON cable (CABL-0281) from this kit to pins 12 and 13, next to the edge of the motherboard on the PS_ON connector.
3. Connect the 12 V power cable that you removed from the old motherboard to the appropriate connector on the new motherboard.
4. Install the 512 MB DRAM module that you removed from the old motherboard.

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