MiTek®

SERVICE BULLETIN

Document ID:

SB285-A

Title:

Installing a Computer PLC With Adapter Bracket

Affected machinery: Hornet™ saw (gen 1)

Distribution: Customers upon order

Applies to: Installing ONLOGIC PC, HX401 WIN 10IoT ENT2021 LTSC with a DELL 24 IN TOUCH MONITOR P2418HT monitor

Sensitivity: Approved for customer use

CAUTION:
MiTek recommends printing this document in high resolution using color ink. Many of the graphics may be unclear and may create an unsafe condition if this recommendation is not followed.

MiTek Automation
Phone: 800-523-3380
Fax: 636-328-9218
www.mitek-us.com

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Purpose and Scope

This service bulletin instructs how to replace the computer referenced on the title page. The new computer has a different hole pattern, requiring an adapter bracket to be used.

Overview

Parts Included

The parts included in this kit are shown in Table 1. Please make sure all parts and supplies are present before starting the procedure.

Table 1: Parts in SB285KIT-A

Quantity	Description	Part #	Kitted PN
4	Socket-head cap screw M4-12mm	302122	77115-501
4	Socket-head cap screw 8-32x1/4”	326061	
1	Adapter Bracket: CPU monitor mount	77125	
2	USB-C to USB adapter	520211	
1	Computer PLC w/Hornet (gen1) software	92318-503	
1	Service bulletin document	SB285-A	

If you have any questions, call MiTek Automation Support at 1-800-523-3380.

Supplies Needed

- Hex key set
- Tape and pen to mark cables as needed
- Screwdrivers may be needed depending on your existing computer’s screw type

Lockout/Tagout Instructions

Electrical Lockout/Tagout Procedure

The lockout/tagout instructions for the electrical systems will be referenced as necessary in this document. Service Bulletin instructions start on page 4.

	⚠ WARNING
	**ELECTROCUTION HAZARD.** **All electrical work must be performed by a qualified electrician.** **Verify that all power to the machine has been turned off and follow approved lockout/tagout safety procedures before performing any maintenance.** **If it is absolutely necessary to troubleshoot an energized machine, follow NFPA 70E for proper procedures and personal protective equipment.**

Working on a Machine Outside the Machine's Main Electrical Enclosure

	⚠ WARNING
	**ELECTROCUTION HAZARD.** **All electrical work must be performed by a qualified electrician.** **Verify that all power to the machine has been turned off and follow approved lockout/tagout safety procedures before performing any maintenance.** **If it is absolutely necessary to troubleshoot an energized machine, follow NFPA 70E for proper procedures and personal protective equipment.** **When the disconnect switch is off, there is still live power within the disconnect switch's enclosure. Always turn off the power at the building's power source to the equipment before opening this electrical enclosure.**

1. Close the machine software.
2. Shut down the PC using the Power > Shut down method in Windows.
3. Engage an E-stop on the machine.
4. Turn the disconnect switch handle to the Off position.
5. Attach a lock and tag that meet OSHA requirements for lockout/tagout to the electrical service entry panel.
6. Open the door to the enclosure to which you need access. Using a multimeter, verify that the power is off.

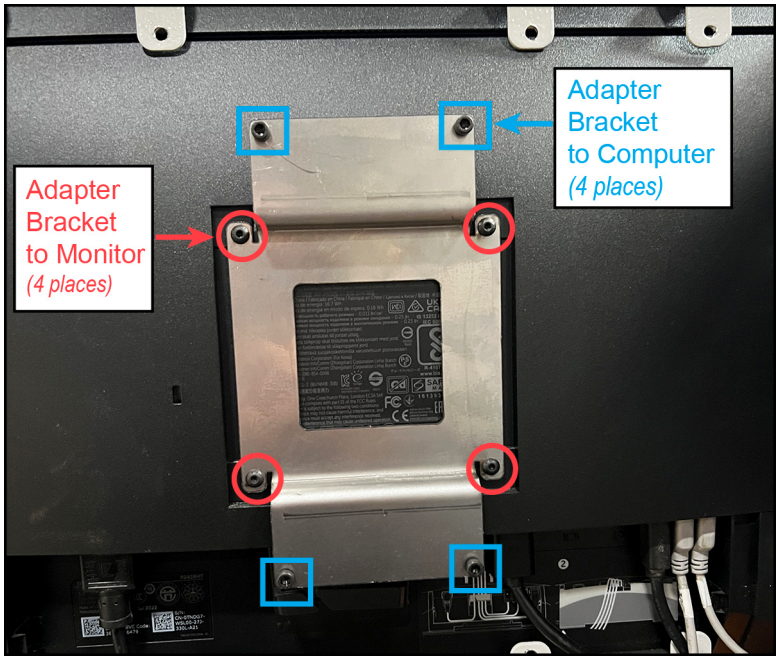
Procedure

NOTICE

Before locking out power, properly shutdown the saw software, then the computer to avoid corrupting configuration files.

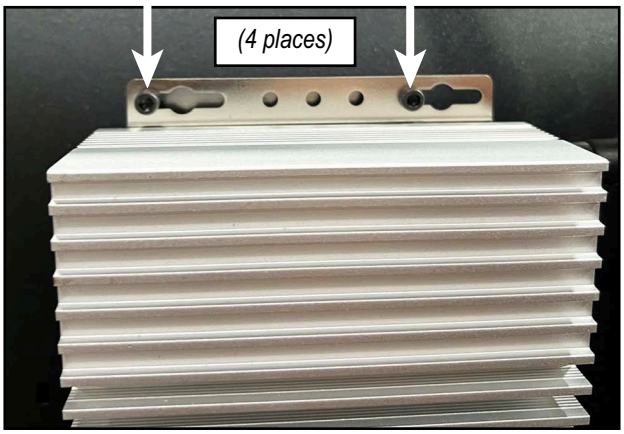
1. Lockout/tagout the electrical and pneumatic systems of the machine using the Lockout/Tagout Instructions on page 3.
2. With power locked out as previously described, open the operator panel electrical enclosure door and locate the computer PLC on the back of the monitor. Your equipment manual can help locate the computer PLC.
3. Remove the computer PLC as follows:
   a) Mark the cables' purposes and, leaving them connected to the monitor, remove the ends connected to the computer PLC.
   b) Remove the old computer PLC from the back of the monitor. Discard or recycle the old computer PLC and any screws it used
4. Install the new adapter bracket onto the monitor by screwing it into the holes on the back of the monitor.
   - Figure 1 shows holes circled in red.
   - Use the supplied screws (PN 302122) and a metric hex key.

Figure 1: Adapter Bracket Installed on Monitor (Computer PLC Not Shown)



5. Install the new computer PLC onto the adapter bracket using these steps:
   a) Partially screw the supplied screws (PN 326061) into the holes in Figure 1 identified with blue squares. Use a standard hex key.
      - Leave them loose enough for the computer PLC's attachment piece to fit behind the screw heads.
   b) Place the computer PLC onto the screw heads and slide it left or right to the end of the slotted holes as shown in Figure 2.
   c) Tighten all 4 screws to hold the computer PLC in place.

Figure 2: Placing the Computer PLC Onto the Adapter Bracket



6. Reconnect the cables from the monitor to the computer PLC.
   - Use the USB-C to USB adapters shown in Figure 3 on any 2 of the USB cables to create the correct port configuration.
   - Use zip ties (not included) to secure the adapters and to keep all cables out of the door hinge area.

Figure 3: Use With Two of the USB Cables

NOTICE

Arrange and secure the cables so they will not be pinched when the door closes. Secure them in place so the vibration of the machine will not affect them.

7. Remove lockout/tagout devices, and turn the disconnect handle On.
8. Open the CutBuilder software and operate the saw as normal.

END OF SERVICE BULLETIN