MiTek®
SERVICE BULLETIN

Affected machinery:

Cyber® A/T saw • *MatchPoint® BLADE* wood processing system

Document:

SB238 rev. B

Title:

Replacing a Touch-Screen Computer

Applicable frame numbers:

Cyber A/T frames Nos. 610, 620 – 653 • *BLADE* frames Nos. 1 – 266

Distribution:

Customers upon order

MiTek Machinery Division
301 Fountain Lakes Industrial Drive
St. Charles, MO 63301
Phone: 800-523-3380
Fax: 636-328-9218
www.mitek-us.com

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Applicability	Saws with Dell computers

Overview

This document describes the process of replacing any touch screen computer with a *Teguar®* computer on a *Cyber A/T®* saw or *MatchPoint® BLADE* wood processing system

	NOTICE
ⓘ	The touch screen computer must be installed and connected according to the procedure in this document.
	Incorrect installation of the touch screen computer destroys the touch screen computer and voids its warranty.

The parts included in this kit are shown below. Please make sure all parts are present before starting this procedure.

Table 1: Parts in SB238KIT-A for *Cyber A/T* Saw

Quantity	Description	Part #
1	*Cyber A/T* programmed touch screen computer	92290-502
1	Service bulletin document	SB238

Table 2: Parts in SB238KIT-B for BLADE Saw (Re-Using *Kepware®* License)

Quantity	Description	Part #
1	*BLADE* programmed touch screen computer	92279-502
1	Service bulletin document	SB238

Table 3: Parts in SB238KIT-C for BLADE saw w/ NEW *Kepware* License

Quantity	Description	Part #
1	*BLADE* programmed touch screen computer, w/license	92279-501
1	Service bulletin document	SB238

Before Beginning the Procedure

Gather the supplies listed here:

- Metric hex key set

- Phillips screwdriver

Notes for BLADE Saw Owners (Licensing Requirements for BLADE only)
Contact Automation Support at 800-523-3380 to: • Remove the Kepware™ License and Blade Config File from the old computer.   • Install the Kepware license and BLADE® config file to the new computer.

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

Electrical Lockout/Tagout Procedure

	⚠ **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 person protective equipment.**

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

Before performing maintenance on any machine with electrical power, lockout/tagout the machine properly. Follow your company's approved lockout/tagout procedures, which should include, but are not limited to, the steps here.

1. Engage an E-stop on the machine.

2. Locate the disconnect switch on the main electrical enclosure. Turn the disconnect switch's handle to the Off position.

	⚠ **WARNING**
⚠	**ELECTROCUTION HAZARD.** **Even when the disconnect switch is off, there is still live power supplied to the disconnect switch's enclosure.** **Always turn off power to the equipment before opening this enclosure.**

3. Attach a lock and tag that meet OSHA requirements for lockout/tagout.

Removing the Computer

1. If you have a *BLADE* saw, contact MiTek Automation Support to remove the *Kepware*™ license and Blade config file from the old computer.

2. Open the door of the touch screen enclosure, and disconnect all cables from the computer.

3. If removing a Dell computer, discard components based on your model of saw. The components are highlighted in yellow in Figure 1.

Figure 1: Discarding Components

If Removing a **Dell** Computer		If Removing a **Teguar**
From this machine...	From this machine...	
Cyber A/T	*BLADE*	No parts to discard

Discard these parts...   Discard these parts...
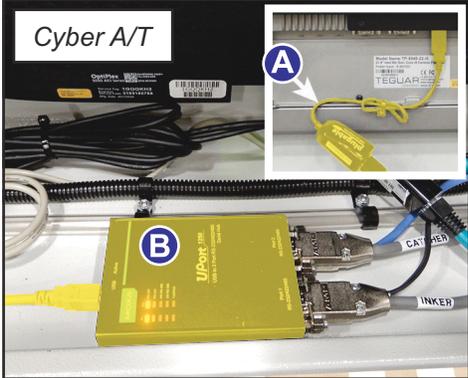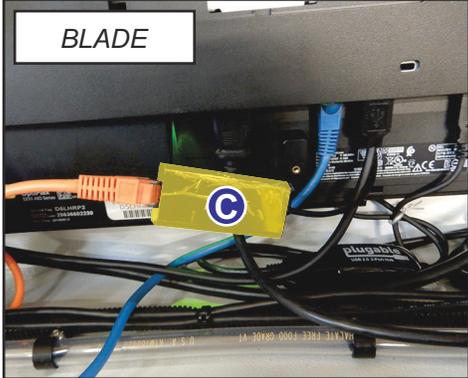
Ⓐ 2-to-1 USB adapter   Ⓒ Ethernet-to-USB adapter

Ⓑ Serial-to-USB adapter & USB cable

4. Remove the computer and bracket from the bracket mounts. Save the hardware for reuse. The bracket is highlighted in yellow in Figure 2.

    Have a second person support the computer while detaching the bracket.

Figure 2: Bracket Inside Touch Screen Enclosure
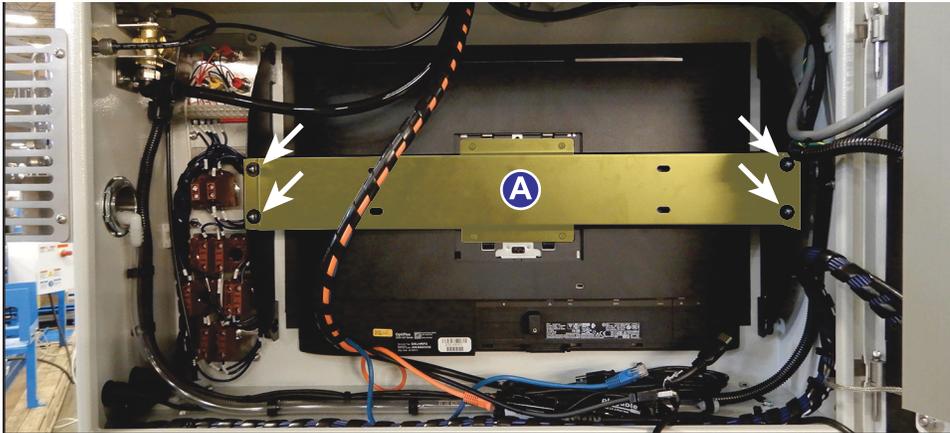
Ⓐ Bracket

5. Place the computer on a non-marring surface and remove the bracket from the back of it. Save the bracket and hardware for reuse. See Figure 3.

Figure 3: Removing the Bracket from the Computer

Installing the Teguar Computer (all saws)

Notes for BLADE Saw Owners (Licensing Requirements for BLADE only)

Contact Automation Support at 800-523-3380 to:
 	
   •   Remove the Kepware™ License and Blade Config File from the old computer.
 	
   •   Install the Kepware license and BLADE® config file to the new computer.

1. Connect the green terminal block to the rear of the new computer. Tighten the screws on the terminal block. See Figure 4.

   Figure 4: Placing Terminal Block on the Computer

2. Attach the bracket to the rear of the new computer.

3. Place the computer into the touch screen enclosure.

4. Attach the bracket to the bracket mounts. See Figure 5.
   Have a second person support the computer while attaching the bracket to the bracket mounts.

   Figure 5: Installing the *Teguar* Computer
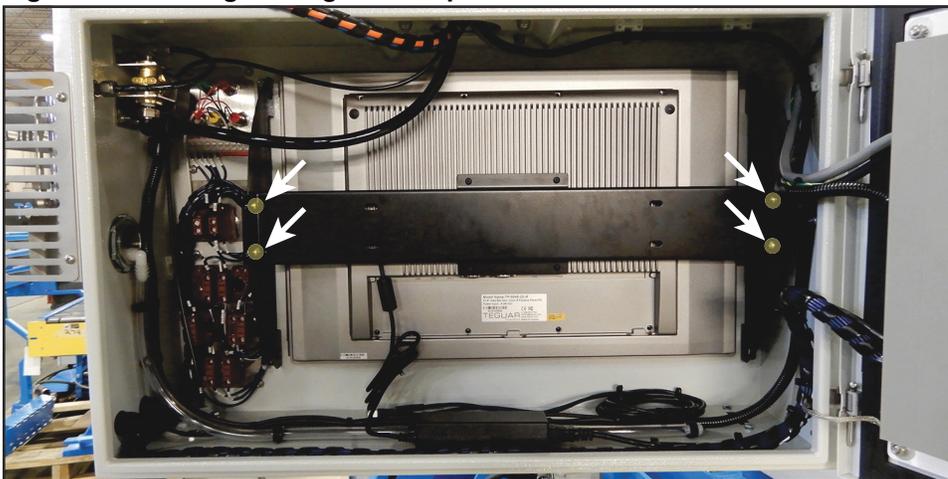
Connecting Cables

Connecting a Teguar Computer on a *Cyber A/T* Saw

Use Table 4 and Figure 6 to connect the cables to the *Teguar* computer. When you are finished, continue with the steps on page 9

Table 4: Cable Connections for a *Cyber A/T* Saw

Label	Cable Type	Function
A	USB type A	Connects to USB port on outside of enclosure
B	USB type A	Connects to USB port on outside of enclosure
C	Blue ethernet	Connects to external network
D	Blue ethernet	Connects to internal PLC network
E	Serial	Connects to Catcher Display (if equipped)
F	Serial	Connects to Inker (if equipped)
If an additional display is used, connect the HDMI cable to the HDMI port.		

Figure 6: Connecting Cables for a *Cyber A/T* Saw
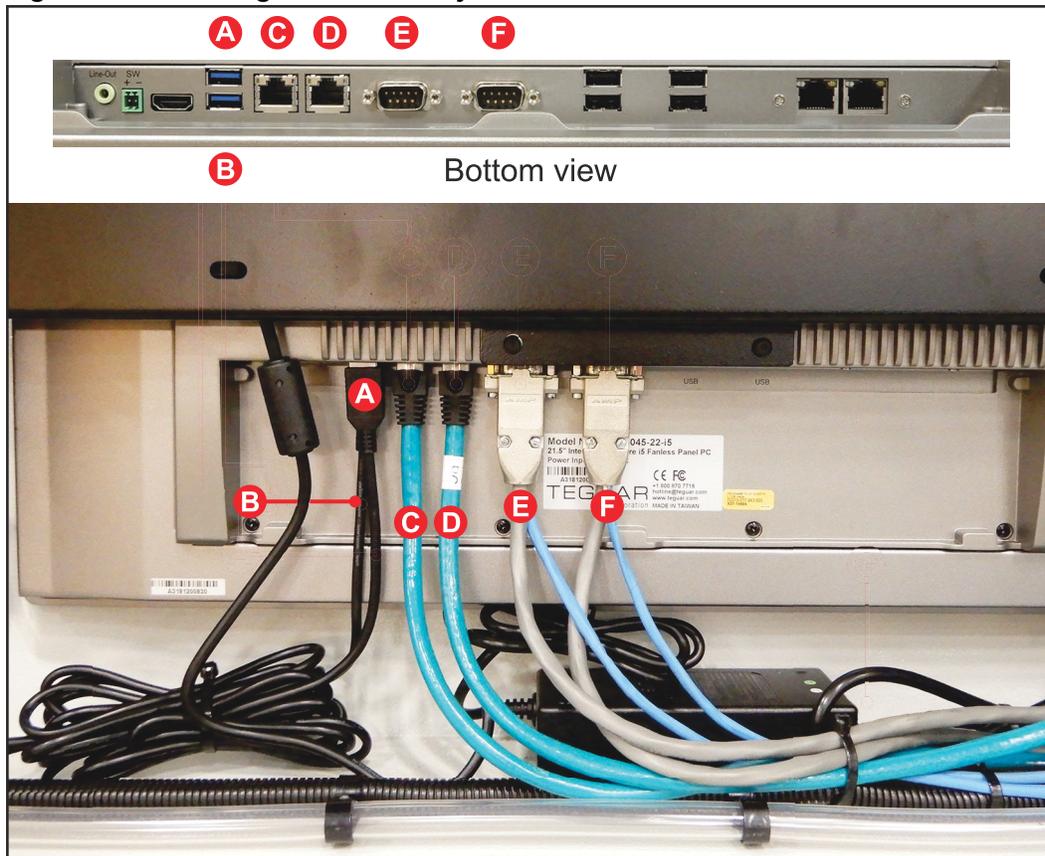
Connecting a *Teguar* Computer on a *BLADE* Saw

1. Use Table 5 and Figure 7 to connect the cables to the *Teguar* computer. When you are finished, continue with the steps on page 9

Table 5: Cable Connections for a *BLADE* Saw

Label	Cable Type	Function
A	Orange ethernet	Connects to external network
B	Blue ethernet	Connects to internal PLC network
C	USB type A	Connects to printer
D	USB type A	Connects to USB port on outside of enclosure
E	USB type A	Connects to USB port on outside of enclosure
If an additional display is used, connect the HDMI cable to the HDMI port.		

Figure 7: Connecting Cables to a *BLADE* Saw (computer models may vary)
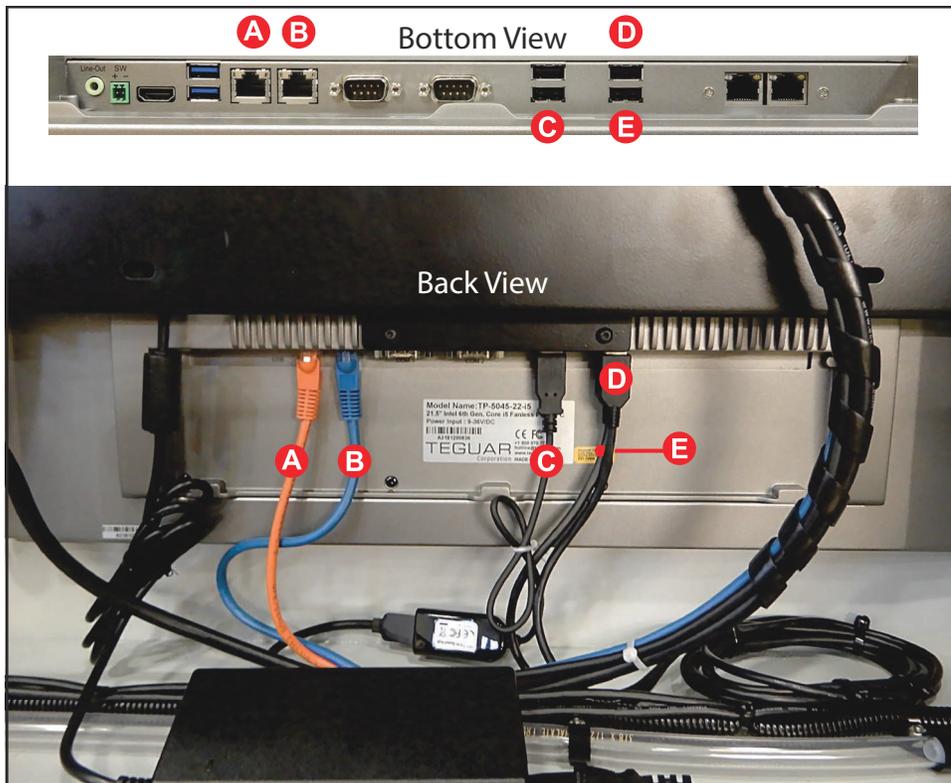
Completing the Installation of a *Teguar* Computer

1. Plug the power cable into the power adapter. The power cable and power adapter are highlighted in yellow in Figure 8.

Figure 8: Plugging Power Cable into Adapter
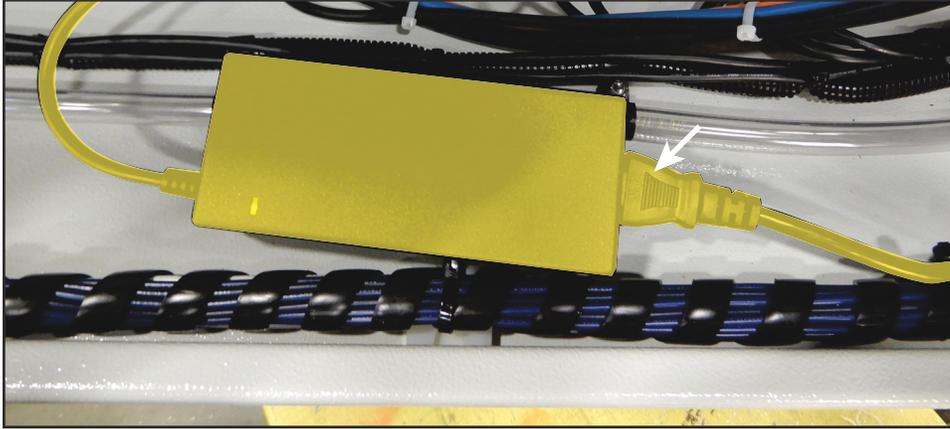
2. Close the door of the touch screen enclosure.

3. Remove the lock and tag from the main electrical enclosure, and restore power to the saw.

   The Teguar computer starts automatically as soon as the saw has power.

4. If you have a BLADE saw, contact MiTek Component Automation Support to re-install the *Kepware* license and BLADE config file on the new computer.

5. Resume operation.

END OF SERVICE BULLETIN