

MiTek Machinery

# Service Bulletin

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Product(s)  
Affected           **Cyber® A/T Saw**  
Description       **Placement of Warning Labels for  
Profibus Communication Loss**  
Date               **07/09/2004**



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SB 146	
Revision	—
Created by	tgl,rr
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Verified by	tbh

**Product(s) Affected**      **Cyber® A/T Saw**  
**Description**            **Placement of Warning Labels for Profibus Communication Loss**  
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This Service Bulletin describes the correct location for the warning labels included in the SB146KIT. These labels should be applied to all *Cyber® A/T* saws to warn personnel of possible movement when the Profibus communication network is disconnected without first activating an E-stop. Table 1 lists the parts included in the SB146KIT.

**Table 1: List of Parts for SB146KIT**

Quantity	Part Number	Description
17	691529	Warning label: Equipment may start automatically
1	SB146	Service Bulletin 146

The best practice is to always ensure an E-stop is activated anytime the saw is not in an operating mode. Always use proper lockout and tagout procedures when performing maintenance or modifying the electrical Profibus network. For the rare times when the saw is not properly locked out, the enclosed labels are imperative. If the Profibus network is disconnected at any point and an E-stop pushbutton is not activated, movement of saw components may occur.

The Profibus network consists of the cable, connectors, encoder interfaces, and the Profibus network card on the PLC (slot 2). A communication error will occur when the Profibus network is disconnected at any point, such as removing the terminating resistor, breaking a quick disconnect connection, or cutting the communication cable. Any disconnection of the Profibus network could cause an instance of motion from the hold-downs, infeeds, and possibly the carriage. While this motion is slight, personnel should be cautioned to use proper shutdown procedures. Using proper lockout and tagout procedures before any maintenance will prevent unexpected motion of any kind.

If there are any questions, please have your electrician call *Mitek®* Customer Service at 800-523-3380.

## Installation Instructions

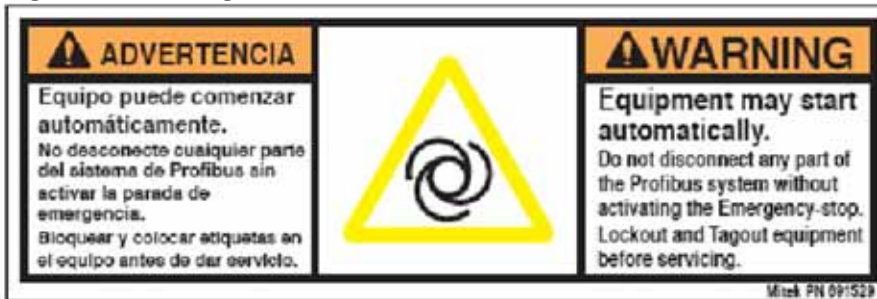
1. Ensure the *Cyber A/T* saw is locked out and tagged out properly.
2. Identify the location where the label is to be applied as described in Table 2.



*To ensure good adhesion of the label, thoroughly clean the surface of the machine prior to applying the label.*

3. Remove the protective backing from the label. A sample label is shown in Figure 1.

**Figure 1: Warning Label**



4. Apply the label to the equipment locations as described in Table 2. The encoder locations are shown in Figure 2 and Figure 3.

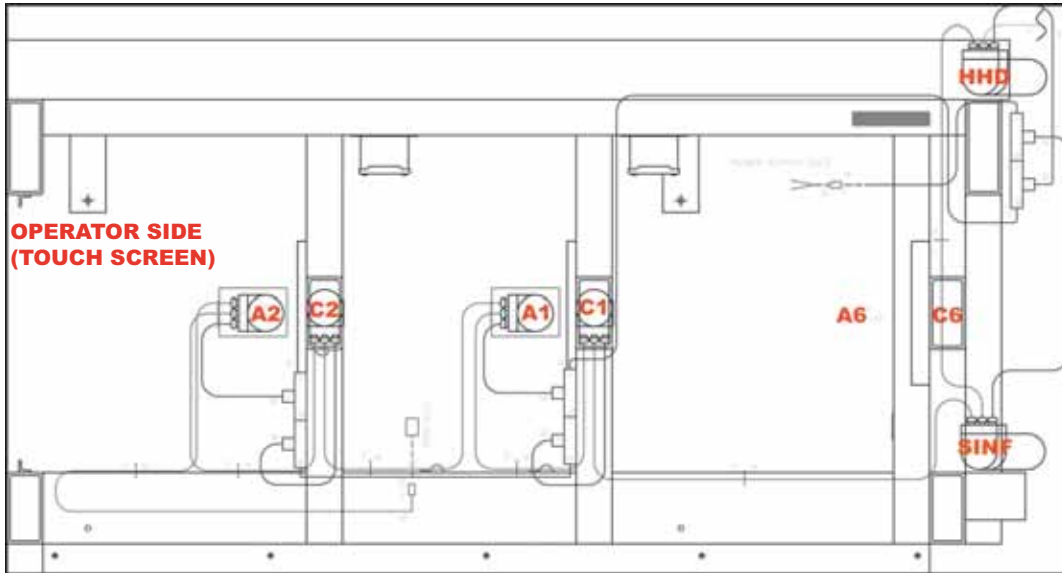
**Table 2: Warning Label Locator**

<b>End of Saw</b>	<b>Encoder Description</b>	<b>Encoder Location</b>	<b>Figure</b>	<b>Label Location</b>
Stationary End	Angulation encoder for Quadrant #1	Figure 2 A1	Figure 4	On the side of the guard
	Centerline encoder for Quadrant #1	Figure 2 C1	Figure 5	On the side of the 4"x8" square tubing
	Angulation encoder for Quadrant #2	Figure 2 A2	Figure 4	On the guard
	Centerline encoder for Quadrant #2	Figure 2 C2	Figure 5	On the side of the 4"x8" square tubing
	Angulation encoder for Quadrant #6	Figure 2 A6	Figure 4	On the guard
	Centerline encoder for Quadrant #6	Figure 2 C6	Figure 2	On the side of the 4"x8" square tubing
	Hold-down encoder (SHHD)	Figure 2 HHD	Figure 7	On the tube below the white cover
	Infeed encoder (SINF)	Figure 2 INF	Figure 9	On the tube beside the encoder
Carriage End	Angulation encoder for Quadrant #3	Figure 3 A3	Figure 4	On the guard
	Centerline encoder for Quadrant #3	Figure 3 C3	Figure 3	On the side of the 4"x8" square tubing
	Angulation encoder for Quadrant #4	Figure 3 A4	Figure 4	On the guard
	Centerline encoder for Quadrant #4	Figure 3 C4	Figure 5	On the side of the 4"x8" square tubing
	Angulation encoder for Quadrant #5	Figure 3 A5	Figure 4	On the guard
	Centerline encoder for Quadrant #5	Figure 3 C5	Figure 5	On the side of the 4"x8" square tubing
	Hold-down encoder (CHHD)	Figure 3 HHD	Figure 8	On the tube below the white cover
	Infeed encoder (CINF)	Figure 3 INF	Figure 10	On the tube beside the encoder.
	Carriage encoder (CAR)	Figure 3 CARR	Figure 6	On the tube beside the encoder.

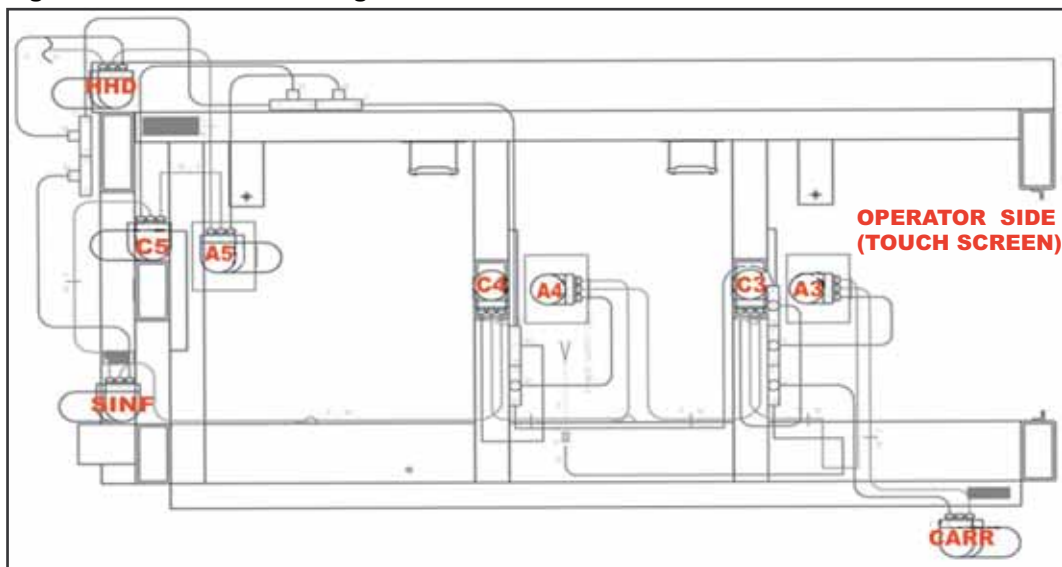


To view locations, stand in center of saw looking toward applicable end.

**Figure 2: Location of Stationary-End Encoders**



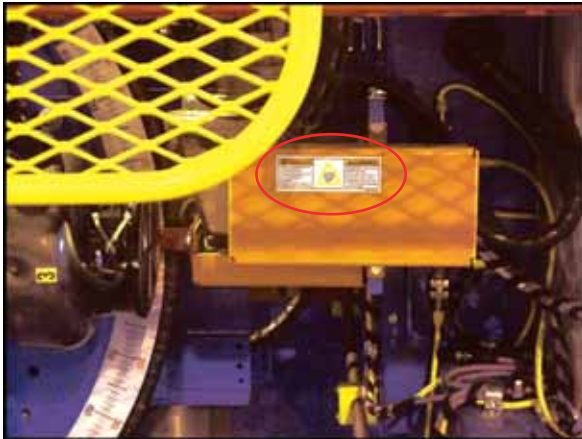
**Figure 3: Location of Carriage-End Encoders**



### Angulation Encoders

All of the saw blades use encoders to determine their angulation. Each angulation encoder has a guard on it. Place a warning label on each angulation encoder guard as shown in Figure 4.

**Figure 4: Angulation Encoder (Typical)**



**Table 3: Angulation Encoders**

No.	Identifier in Figure 2 and Figure 3
1	A1
2	A2
3	A3
4	A4
5	A5
6	A6

### Centerline Encoders

All of the saw blades have encoders used to determine centerline position (up and down). Each centerline encoder is mounted inside the 4x8-in. rectangular tube that the blade motor is mounted on. Place the warning label on the outside of the tubing near the encoder as shown in Figure 5.

**Figure 5: Centerline Encoders (Typical)**



**Table 4: Centerline Encoders**

No.	Identifier in Figure 2 and Figure 3
1	C1
2	C2
3	C3
4	C4
5	C5
6	C6

### Carriage Encoder

The carriage encoder is closest to the operator on the carriage end. Place the warning label on the square tube near the carriage that is labeled CARR in Figure 3. Refer to Figure 6.

**Figure 6: Carriage Encoder**



### *Horizontal Hold-Down Encoders*

Both horizontal hold-down encoders sit up high in the corners of their respective ends. They are labeled HHD on Figure 2 and Figure 3. Place labels near the encoders as shown in Figure 7 and Figure 8.

**Figure 7: Hold-Down Label, Stationary End**



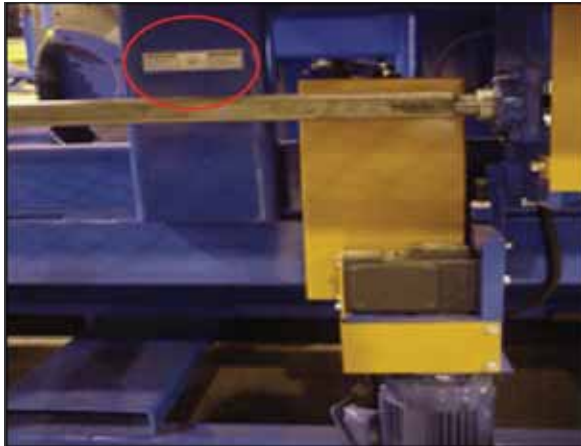
**Figure 8: Hold-Down Label, Carriage End**



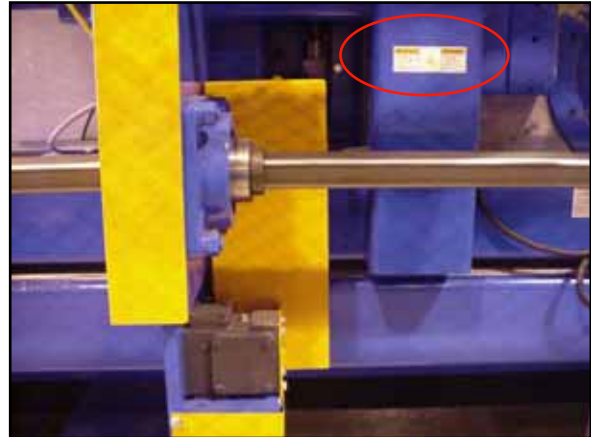
### *Infeed Encoders*

The stationary infeed encoder is located above the stationary infeed drive motor. The carriage infeed encoder is located above the carriage infeed drive motor. Place the warning labels on the tubing beside the encoders so they are close to the encoders but also near the cable. Refer to Figure 9 and Figure 10.

**Figure 9: Infeed Encoder Label, Stationary End**



**Figure 10: Infeed Encoder Label, Carriage End**



**END OF SERVICE BULLETIN**