

MiTek Machinery

# Service Bulletin

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Product(s) Affected      **Cyber<sup>®</sup> A/T, Cyber, SmartSet<sup>®</sup>,  
and SmartSet Pro Saws**

Description                **Modifying the E-Stop  
Actuator Assembly**

Date                            **8/20/2004**



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## Overview

The E-stop actuator assemblies for the *Cyber<sup>®</sup> A/T, Cyber, SmartSet<sup>®</sup>, and SmartSet Pro* saws are being modified to allow simple reset of the E-stop actuator assemblies after they have been activated.

This Service Bulletin provides step-by-step procedures for modifying the E-stop actuator assemblies on the *Cyber A/T, Cyber, Smart Set, and SmartSet Pro* saw.

The items needed to complete this procedure are listed in Table 1 and included in the kit provided.

Table 2 lists the tools required to complete this Service Bulletin.

In Table 3, you will find the item nomenclature used throughout this Service Bulletin with the corresponding callout number. This will assist you in identifying the parts and their locations.

**Table 1: Parts Included in SB153KIT**

Quantity	Part Number	Description
1	79795	E-Stop Actuator
1	SB153	Service Bulletin

**Table 2: Tools Required**

Description
Grinder
Welder
C-clamp
Hex head wrench
Open end wrench

**Table 3: Item Nomenclature**

Callout Number	Nomenclature
1	200-Amp Breaker
2	E-stop Actuator Assembly
3	Hex Head Capscrew
4	Spring
5	Washers
6	Hex Nut
7	Mounting Bracket
8	Socket Head Capscrew
9	E-stop Actuator Swing Bracket
10	Weld To Cut
11	E-stop Actuator
12	E-stop Switch
13	E-stop Mounting Bracket

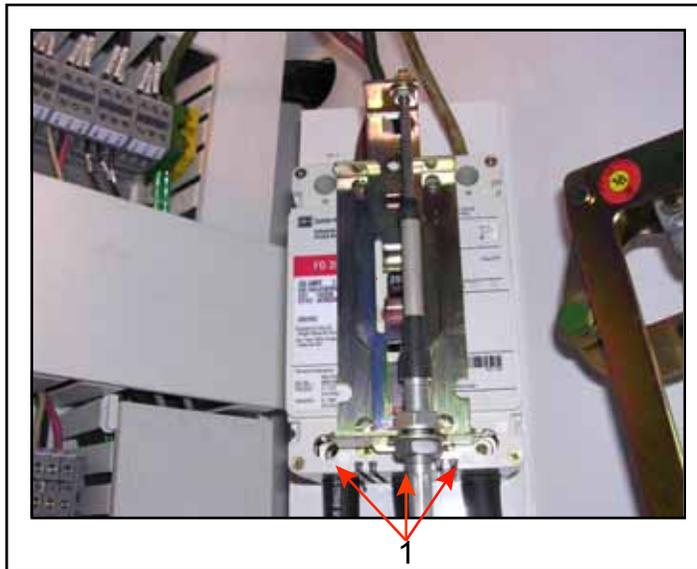
If there are any questions, please call *MiTek* Customer Service at 800-523-3380.

## Procedure

### Removing the E-Stop Actuator Assembly

1. Turn off, lockout and tagout all power to the saw. Refer to Figure 1.

**Figure 1: Verify Power Source is Off**



2. Using a multimeter, verify power is off below the 200-amp breaker (1).

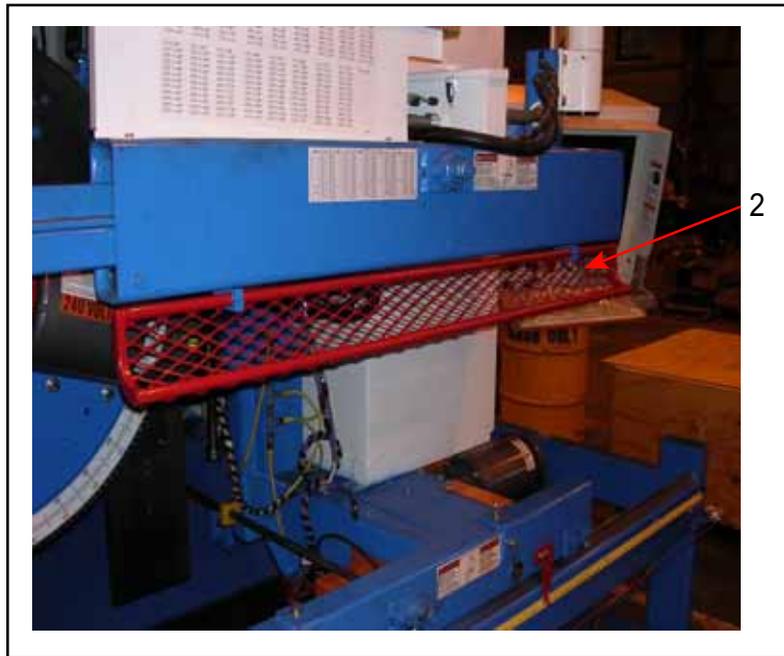
<b>WARNING</b>	
	<p><b>During removal of the E-stop actuator assembly, ensure the assembly is supported during removal of the mounting hardware. Failure to comply may result in injury to personnel and or damage to equipment.</b></p>

3. Remove the E-stop actuator assembly (2) from the saw. The actuator is shown in Figure 2.



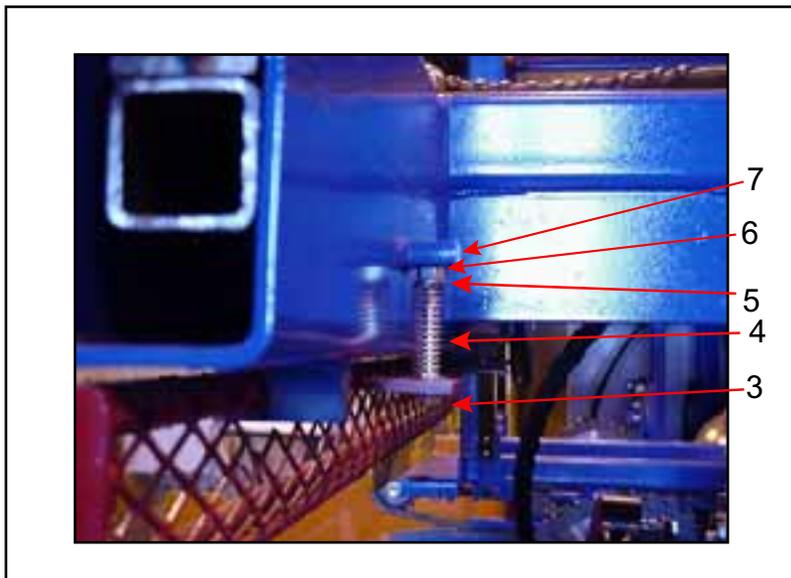
*During this procedure, the springs that are removed during disassembly will not be used during assembly. Dispose of according to local procedures.*

**Figure 2: E-Stop Actuator**



- a) Using a wrench, loosen and remove the hex head capscrews (3), springs (4), washers (5) and hex nuts (6) from the mounting brackets (7). Figure 3 shows the location of the mounting brackets (7).

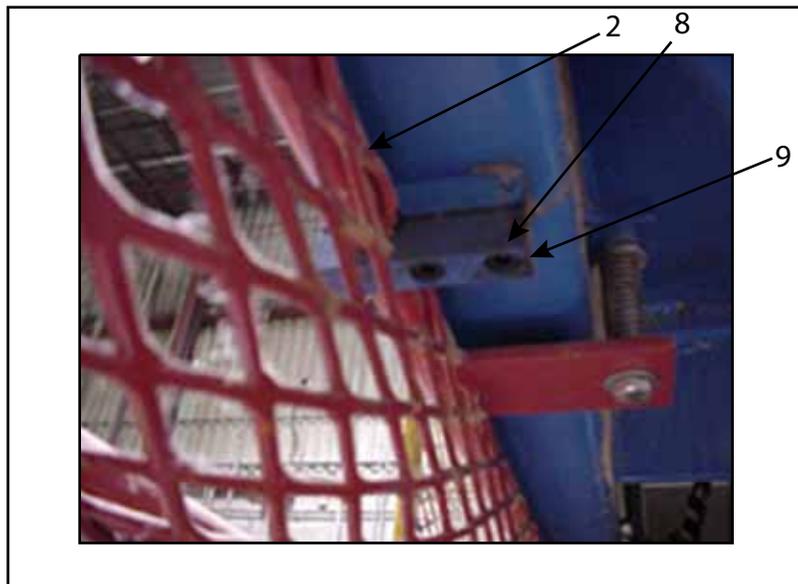
**Figure 3: Removing the Socket Head Capscrew**



<b>WARNING</b>	
	<b>During removal of the E-stop guard, ensure the guard is supported prior to removal of the hex head capscrews. Failure to comply may result in injury to personnel and/or damage to equipment.</b>

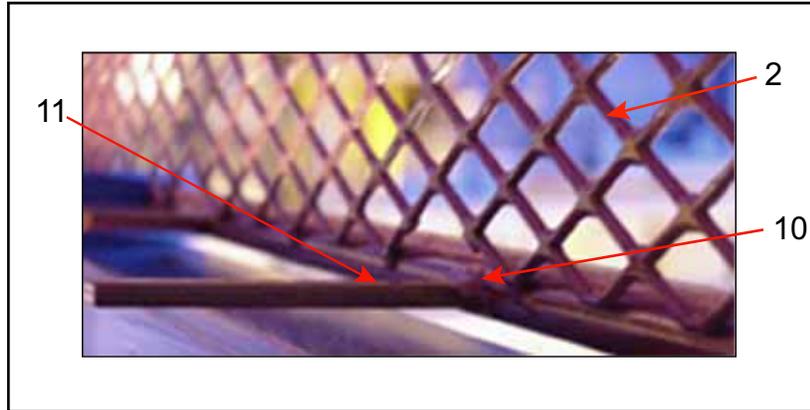
4. While supporting the E-stop actuator assembly (2), remove the socket head capscrews (8) from the E-stop actuator swing bracket (9).
5. Remove the E-stop actuator swing bracket (9) and the E-stop actuator assembly (2) from the saw.

**Figure 4: Removing the E-Stop Actuator Assembly**



- a) Referring to Figure 5 and using a grinder, cut welds (10) holding the E-stop actuator (11) on the E-stop actuator assembly (2).

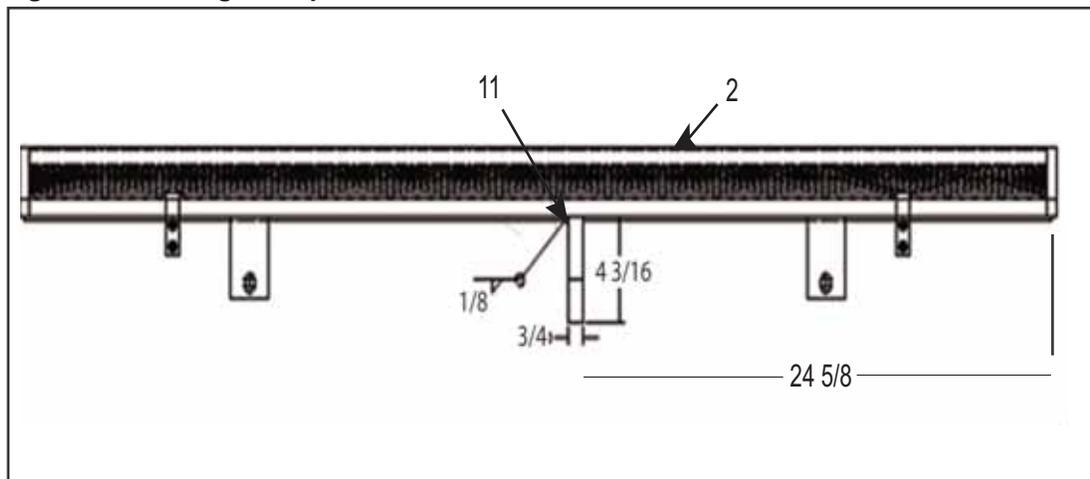
**Figure 5: Cutting Old Actuator off of E-Stop Assembly**



### *Installing the E-Stop Actuator Assembly*

1. Position the E-stop actuator (11), provided with your kit, on the E-Stop actuator assembly (2) and hold in place with a C-clamp, as shown in Figure 6.

**Figure 6: Locating E-Stop Actuator**



2. Weld the E-stop actuator (11) onto the E-stop actuator assembly (2) as shown in Figure 6.

**Figure 7: Actuator on E-Stop Actuator Assembly**



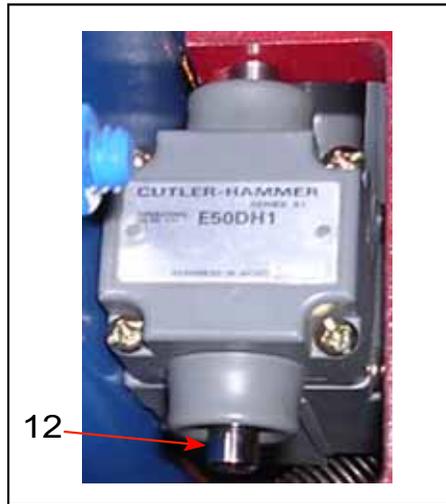
*Figure 7 depicts the E-stop actuator assembly after the new actuator has been installed.*

3. Position the E-stop actuator assembly (2) in the E-stop actuator assembly swing brackets (9).

<b>WARNING</b>	
	<p><b>During installation of the E-stop actuator assembly, ensure the guard is supported during installation of the mounting hardware. Failure to comply may result in injury to personnel and or damage to equipment.</b></p>

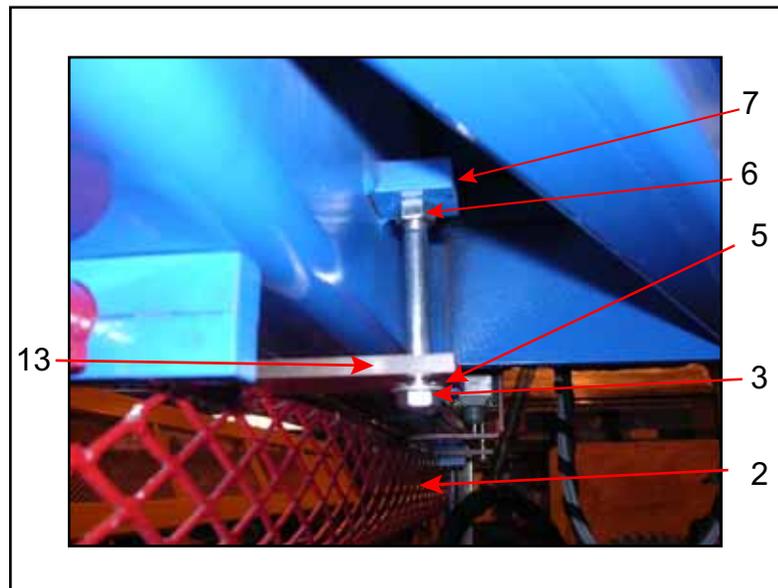
4. Prior to performing the following step, ensure the E-stop switch (12) is in the down position, as shown in Figure 8.

**Figure 8: E-Stop Switch in the Down Position**



5. Install E-stop actuator mounting hardware.
  - a) Install the socket head capscrews (8) in the E-stop actuator assembly swing brackets (9) and tighten.
  - b) Referring to Figure 9, install a washer (5) on the hex head capscrew (3).

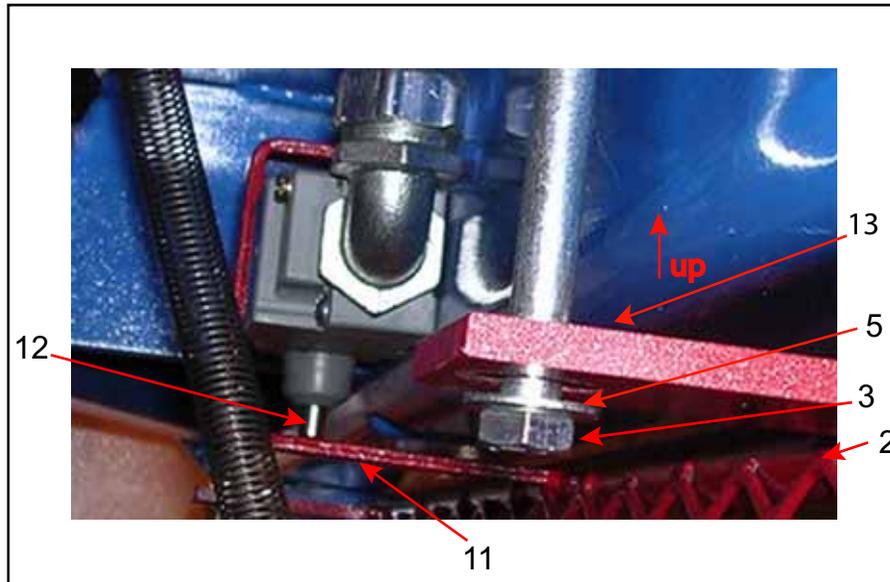
**Figure 9: Capscrew Installation**



- c) Install the hex head capscrew (3) with washer (5) through the E-stop actuator assembly mounting bracket (13) as shown in Figure 9.
- d) Install a hex nut (6) on the hex head capscrew (3).

6. Push the E-stop actuator assembly (2) up until contact is made between the E-stop switch (12) and the E-stop actuator (11).

**Figure 10: E-Stop Switch and E-Stop Actuator Contact**



7. Thread the hex head capscrew (3) into the mounting bracket (13), as shown in Figure 9.



*Figure 10 depicts the correct position for the E-stop actuator at the completion of this Service Bulletin.*

8. Tighten the hex head capscrew (3) until the washer (5) makes contact with the E-stop mounting bracket (13) and the actuator (11) remains in contact with the actuator E-stop switch (12).

### ***Return Power to Saw***

1. Remove the lockout and tagout devices.
2. Turn power ON to the saw.

**END OF SERVICE BULLETIN**