MiTek[®] **Machinery Division**

Service Bulletin

Machinery Affected:	<i>Easy-Set[®]</i> Saw
Document:	SB178
Title:	Replacing Breakers and Auxiliary Contacts
Applies To:	Carriage-End Breakers and Auxiliary Contacts
Distribution:	Customers, Upon Order



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Purpose and Scope

If it is necessary to replace a breaker or the auxiliary contact on the carriage end of any $Easy-Set^{\textcircled{B}}$ saw, both breakers and contacts must be replaced due to vendor product changes. This Service Bulletin provides instructions for safely removing and properly replacing the old breakers and auxiliary contacts with new ones.

Overview

The parts included in this kit are shown in Table 1. Please ensure all parts are present before starting this procedure.

Table 1: Parts in SB178KIT

Qty.	Part Description	Part #
1	Breaker, S202-B6	516364
1	Breaker, S262-B10	516365
2	Contact, auxiliary	408662

Before beginning the procedure, gather the supplies listed in Table 2.

Table 2: Tools and Supplies

Description
Standard screwdriver set
Adjustable wrench

If you have any questions, call MiTek Machinery Division Customer Service at 800-523-3380.



Procedure

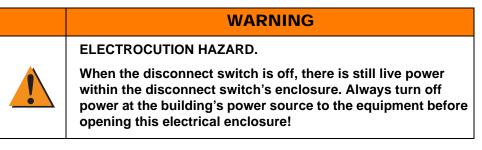


Electrical Lockout/Tagout Procedures

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

Before performing maintenance on any machine with electrical power, lockout/tagout the machine properly. When working on a machine outside of the machine's main electrical enclosure, not including work on the electrical transmission line to the machine, 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. Turn the disconnect switch handle on the machine's main electrical enclosure to the "off" position.



3. Attach a lock and tag that meets OSHA requirements for lockout/tagout. See Figure 1.





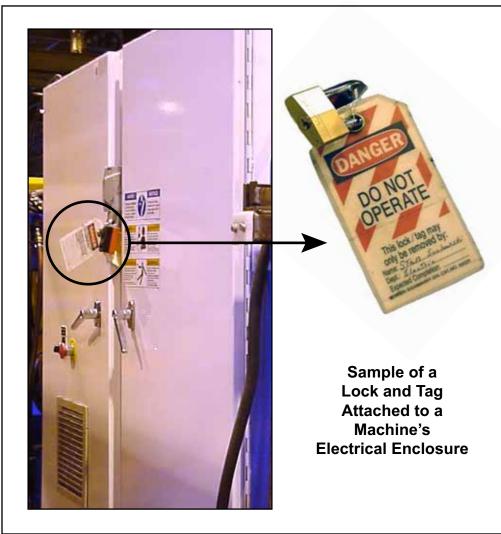


Figure 1: Lockout/Tagout on the Main Electrical Enclosure



Replacing the Breakers and Auxiliary Contacts

Breakers and auxiliary contacts are located on the left side of the carriage-end electrical enclosure. See Figure 2.

Figure 2: Breakers and Contacts



Removing the Breakers and Auxiliary Contacts

- 1. Lockout/tagout the saw at the stationary-end electrical enclosure.
- 2. Remove the two (2) 10-24 slotted screws holding the breakers, auxiliary contacts and DIN rail in place in the electrical enclosure. Save the screws for re-use.
- 3. Remove the breakers, auxiliary contacts, and DIN rail.
- 4. Remove the wires from the breakers and auxiliary contacts, noting how they are wired.
- 5. Remove the breakers and auxiliary contacts from the DIN rail.



Replacing the Breakers and Auxiliary Contacts

- 1. Turn the breaker switch to ON and then OFF to activate the breaker.
- 2. Attach the auxiliary contact to the breaker.
 - a) Remove the plastic piece covering the small hole on the left side of each breaker. See Figure 3.

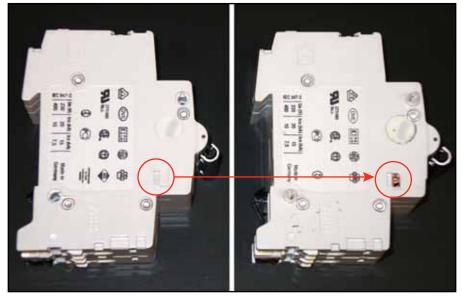


Figure 3: Remove Plastic Covering

b) Line up the edges of the auxiliary contact with the left side of the breaker. See Figure 4.

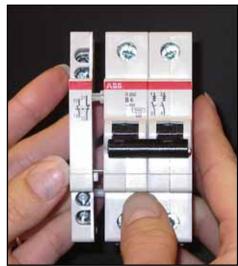


Figure 4: Line Up Contact and Breaker



- c) Press the breaker and auxiliary contact toward each other until they snap together.
- 3. Repeat steps 1 and 2 for the other breaker and auxiliary contact.
- 4. Insert the breakers and auxiliary contacts into the DIN rail.
 - The switch side of the breakers must be facing toward the left side of the enclosure.
 - The B6 breaker, PN 516364, must be closer to the back of the enclosure, with the B10 breaker, PN 516365, in front. See Figure 5.

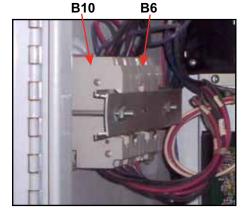
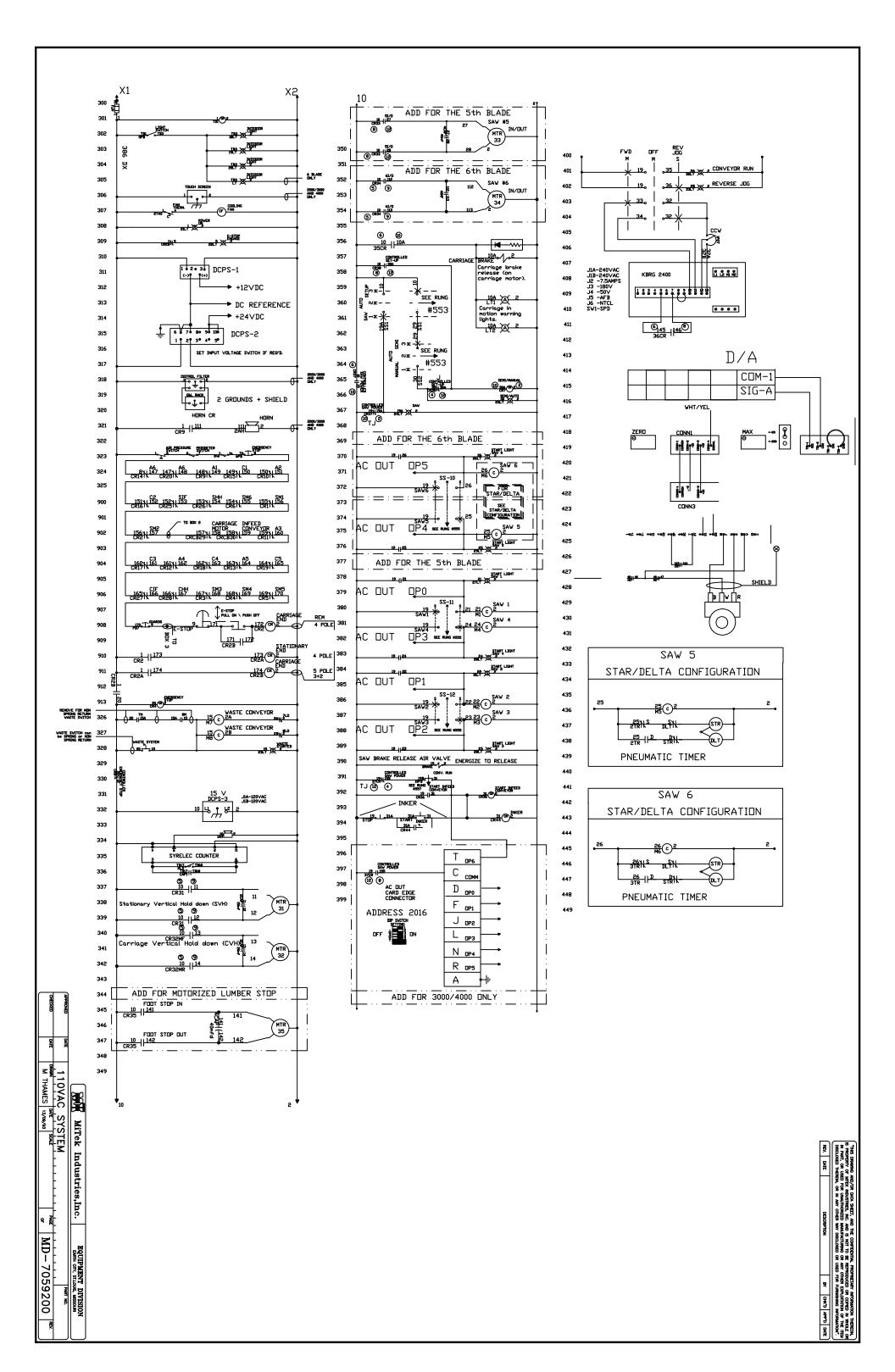
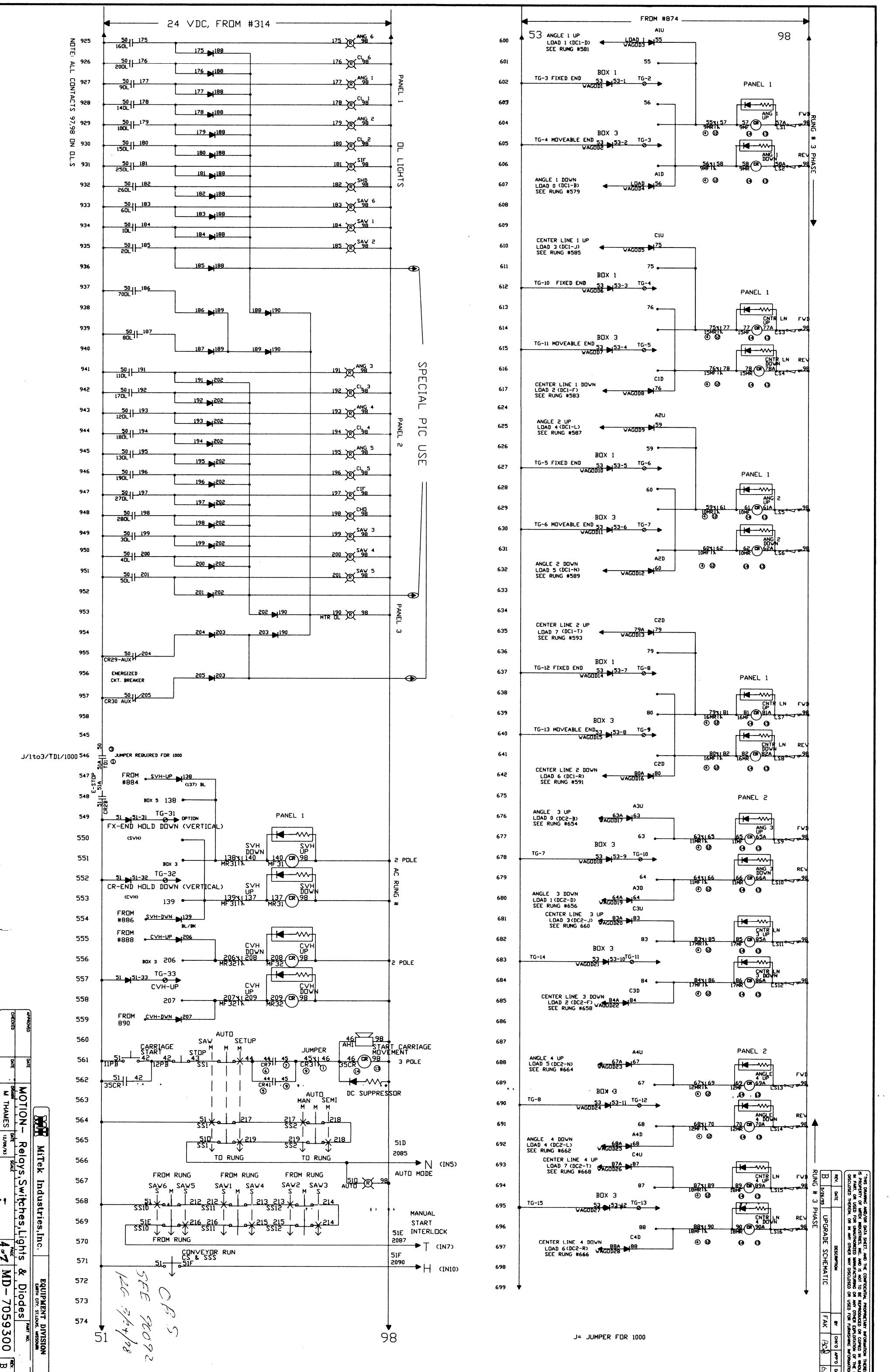


Figure 5: Breaker and Contact Locations

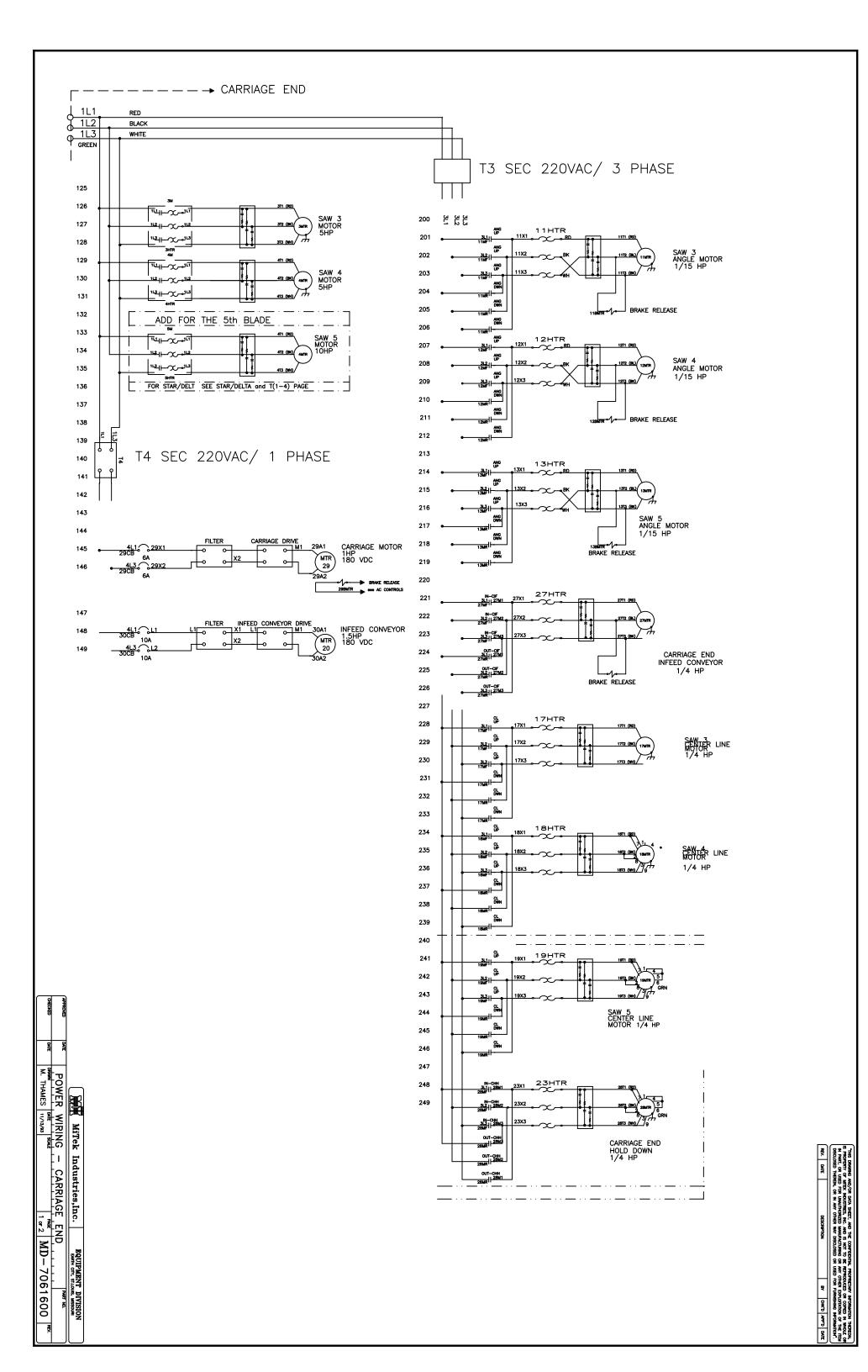
- 5. Reconnect wires to the breakers and auxiliary contacts in the same configuration as before the part replacement. Refer to Drawings 7059200, 7059300, and 7061600 for machines shipped before December 7, 1996, and to Drawing 90092 for machines shipped after December 7, 1996.
- 6. Line up the DIN rail, breakers, and auxiliary contacts with the screw holes in the electrical enclosure.
- 7. Insert and tighten the two (2) 10-24 slotted screws.
- 8. Close the electrical enclosure.
- 9. Remove the lockout/tagout device and turn the electrical disconnet to ON.
- 10. Restart the machine.
- 11. Turn the breakers on. If they are installed correctly, a light will appear on the stationary-end and carriage-end indicator boards.

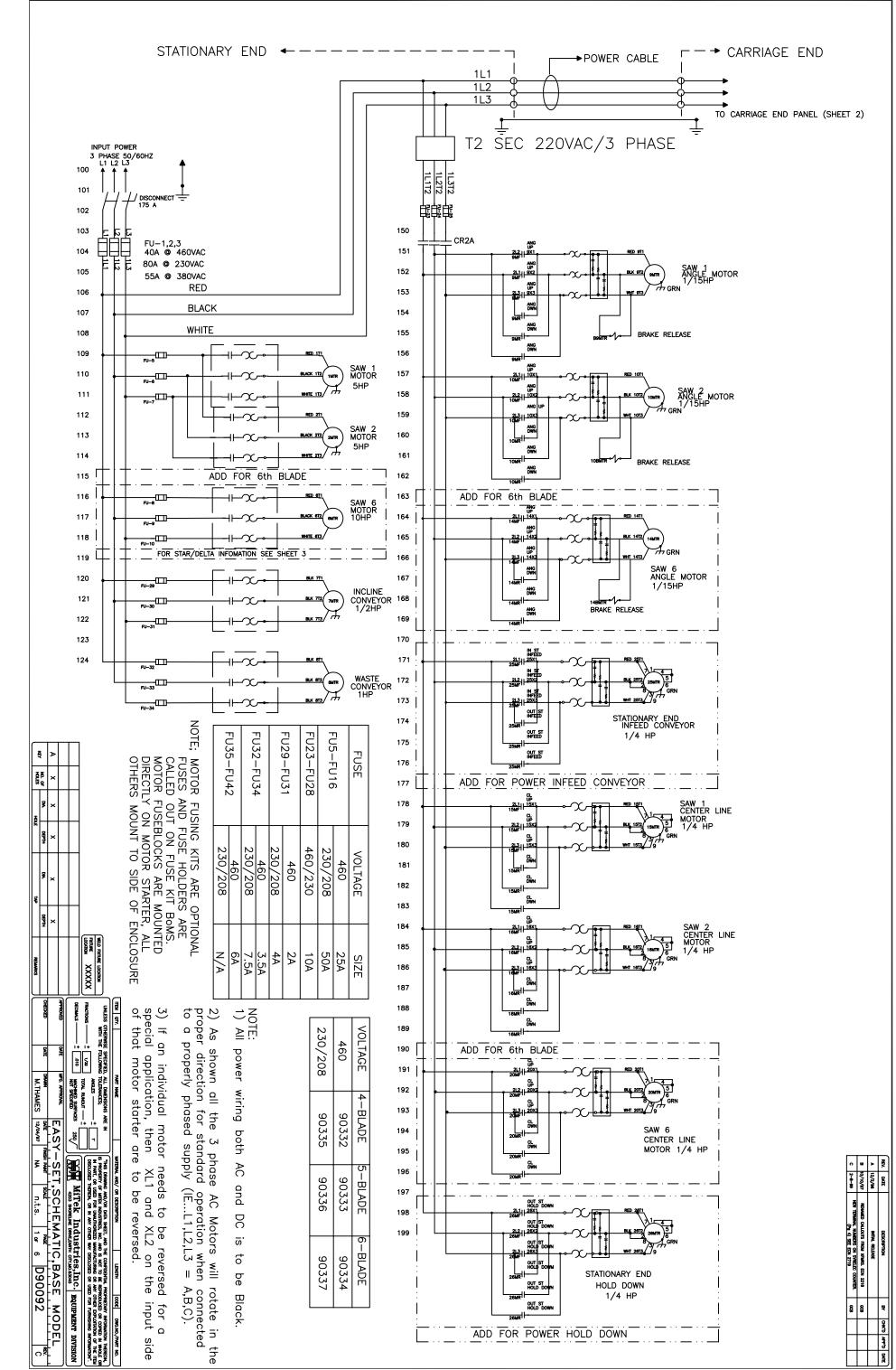
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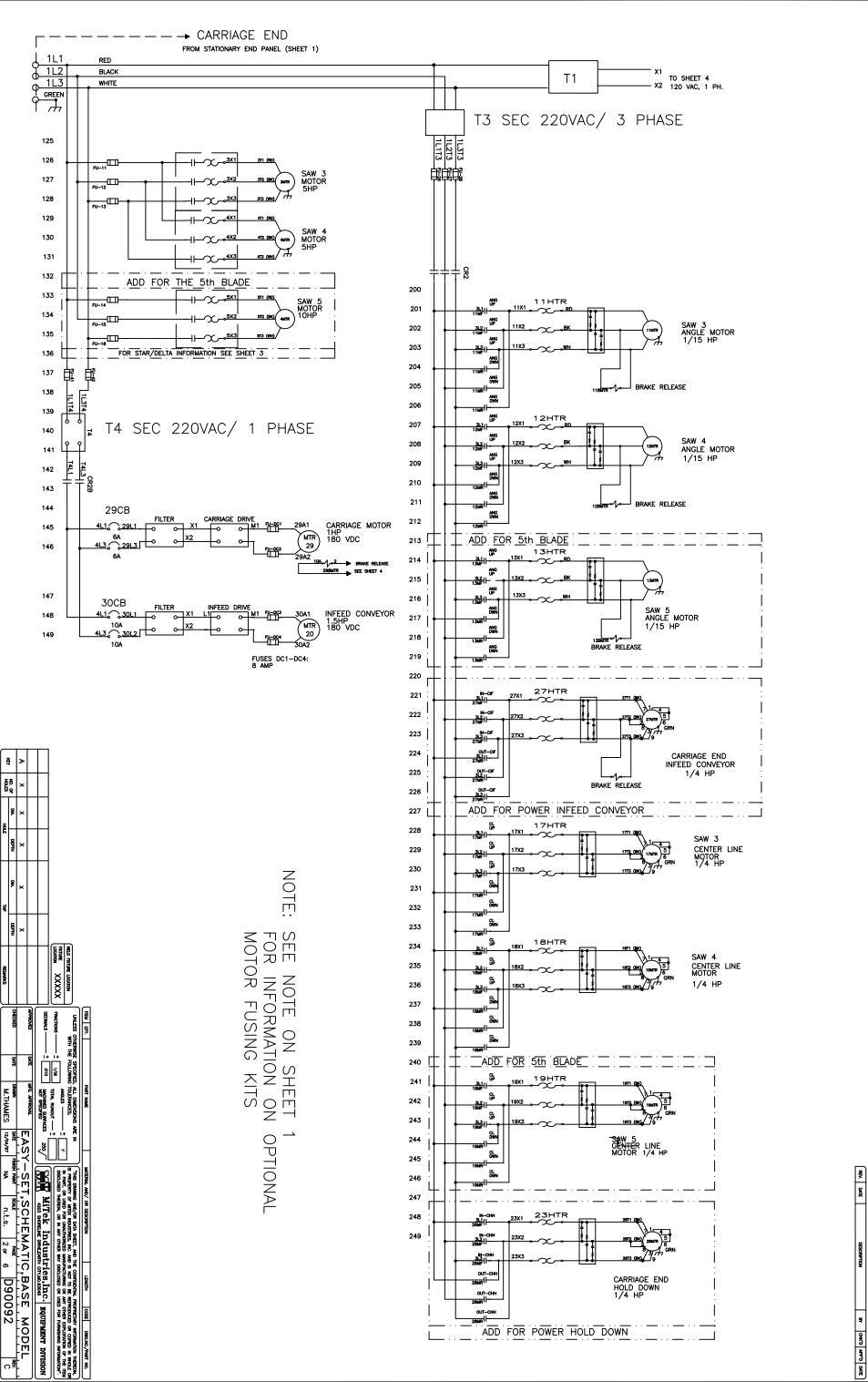


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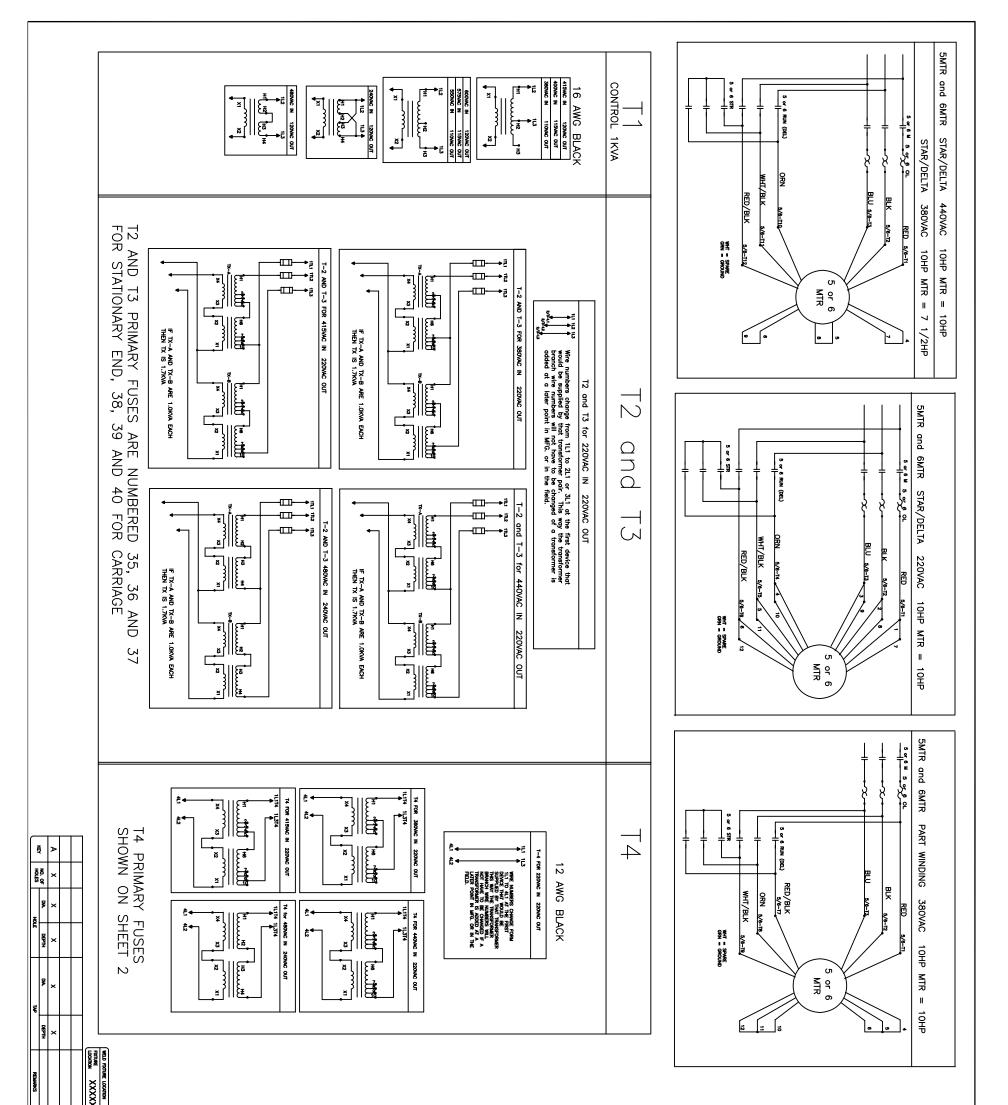




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NOTE: SEE NOTE ON SHEET 1 FOR INFORMATION ON OPTIONAL FUSE KITS

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