

Service Bulletin

Equipment Affected *Cyber® A/T, Cyber, SmartSet® Pro, SmartSet, and Easy-Set® Saws*

Title **Lubricating Saw Blade Motors and Modifying the Pointer on the Angle Scale**

Applicability *Baldor™ and Emerson™ Motors*

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Effectivity	

Introduction

This Service Bulletin describes how and when to lubricate the bearings in *Emerson*[™] or *Baldor*[™] motors that provide power to saw blades on *MiTek*[®] component saws. It is important to lubricate according to this schedule. Unlubricated bearings will cause motor failure.



Baldor motors do not require any lubrication because they are sealed bearings. Some Baldor motors have a grease fitting, but it should not be used. No lubrication is necessary for Baldor motors discussed in this document.

This document also contains instructions for modifying the pointer on the angle scale because some new motors are larger than the original design and inhibit the visibility of the angle pointer. Follow this procedure to modify the pointer if needed.

Please add this Service Bulletin to the lubrication section of your Operation and Maintenance Manual. For the *Cyber*[®] A/T saw, the lubrication procedure already exists in manuals marked Revision D and higher.

If you have any questions about this Service Bulletin, contact MiTek Machinery Division Customer Service at 800-523-3380.

Parts and Supplies

The tools and supplies that are required to complete this procedure are listed in Table 1. Ensure that you have all these supplies before beginning the procedure.



Table 1: Customer-Supplied Items Required

Grease Gun
Grease for Emerson: Dow Corning 44 Medium Consistency Grease OR
Grease for Baldor: NONE

Procedure





Electrical Lockout/Tagout Procedure

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



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.

	 WARNING
	<p>ELECTROCUTION HAZARD.</p> <p>When the disconnect switch is off, there is still live power within the disconnect switch’s enclosure. Always turn off power at the building’s power source to the equipment before opening this electrical enclosure!</p>

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

Pneumatic System Lockout/Tagout Procedure

	 WARNING
	<p>MOVING PARTS CAN CRUSH AND CUT.</p> <p>Always verify that power to the machine has been turned off and follow approved lockout/tagout procedures.</p> <p>Turn off the air switch before performing any maintenance on the equipment.</p>

	 WARNING
	<p>HIGH PRESSURE HAZARD.</p> <p>Bleed pneumatic lines before performing any maintenance on the pneumatic system.</p>

Lubricating the Motor Bearings for Emerson Motors



1. Locate each grease fitting on the saw blade motor. Each motor has 2 fittings.
2. Attach your grease gun to the fitting.
3. Add the recommended amount of grease to the motor. See Table 2 for grease specifications.

Table 2: Recommended Grease Replenishment Quantities

Motor (hp)	Motor Brand	Saw Quadrant	End of Motor	Bearing Number	Amount of Grease (oz)	Grease
5-7	Emerson	1-4	Both	6206	0.20	Dow Corning 44 Med
	Baldor	1-4	Drive End	6206	Sealed bearings: DO NOT GREASE	
		1-4	Non-Drive	6205		
10-13	Emerson	5-6	Both	6208	0.40	Dow Corning 44 Med
	Baldor	5-6	Drive End	6307	Sealed bearings: DO NOT GREASE	
		5-6	Non-Drive	6206		

NOTICE

Failure to use the specified type of grease, too much grease, or too little grease can cause your motor to fail.

Even if a grease fitting is present, do not grease the Baldor motors!

4. Repeat for each motor.
5. Prepare each motor for use:
 - a) Ensure that all personnel are clear and restore power to the saw.
 - b) Run each motor for 15-30 minutes to allow purging of any excess grease.
 - c) Return motors to normal service.
6. Repeat the lubrication process at the frequencies shown in Table 3.

Table 3: Frequency of Lubrication

Motor	Motor Brand	Frequency of Lubrication
5-7 hp	Emerson	Every 3 months
	Baldor	NEVER
10-13 hp	Emerson	Every 3 months
	Baldor	NEVER

Modifying the Pointer on the Angle Scale

If the new motor is larger than the previous motor, it may overlap the pointer on the angle scale making the scale difficult to read. If this occurs, modify the pointer to the dimensions shown in Figure 1.

If you have any questions or concerns, please contact the MiTek Machinery Division Customer Support group at 800-523-3380.

Figure 1: How to Modify the Pointer

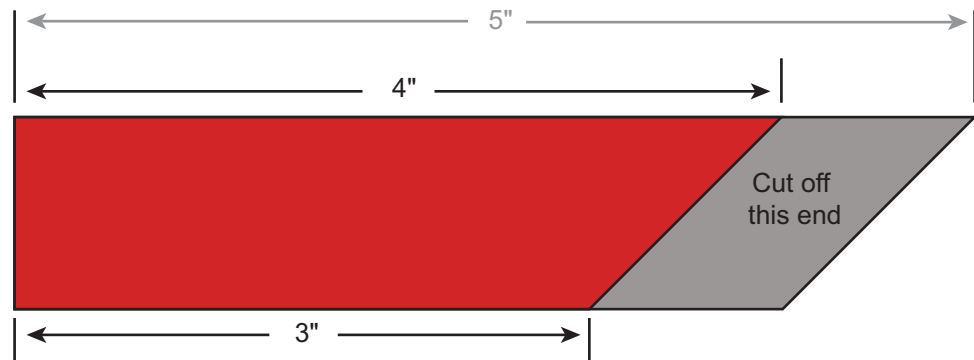
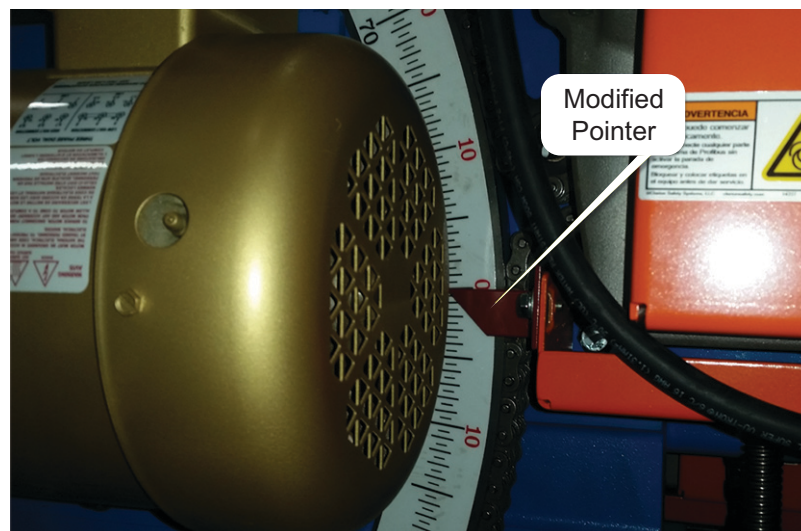


Figure 2: Modified Pointer on Angle Scale



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