

# **Service Bulletin**

Equipment Affected	Cyber <sup>®</sup> A/T, Cyber, SmartSef <sup>®</sup> Pro, SmartSet, and Easy-Sef <sup>®</sup> Saws		
Title	Lubricating Saw Blade Motors and Modifying the Pointer on the Angle Scale		
Applicability	Baldor™ and Emerson™ Motors		
Date	06/30/2006		



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MiTek Machinery Division 301 Fountain Lakes Industrial Drive St. Charles, MO 63301 Phone: 800-523-3380 www.mii.com

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Effectivity	



## Introduction

This Service Bulletin describes how and when to lubricate the bearings in *Emerson*<sup>TM</sup> or *Baldor*<sup>TM</sup> motors that provide power to saw blades on  $MiTek^{\textcircled{B}}$  component saws. It is important to lubricate according to this schedule. Unlubricated bearings will cause motor failure.

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  $Cyber^{\mathbb{R}} A/T$  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: Polyrex EM



### Procedure

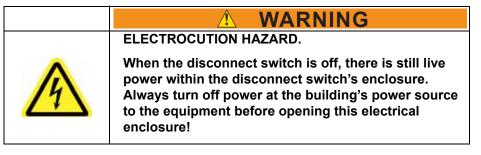


#### **Electrical Lockout/Tagout Procedure**

	🛆 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.





### Pneumatic System Lockout/Tagout Procedure

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

$\land$	HIGH PRESSURE HAZARD. Bleed pneumatic lines before performing any maintenance on the pneumatic system.



### Lubricating the Motor Bearings



- 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.

Motor (hp)	Motor Brand	Saw Quadrant	End of Motor	Bearing Number	Amount of Grease (oz)	Grease
Emerson	1-4	Both	6206	0.20	Dow Corning 44 Med	
5-7	Paldar	1-4	Drive End	6206	0.19	Polyrex EM
Baldor	Daluul	1-4	Non-Drive	6205	0.15	Polyrex EM
10-13	Emerson	5-6	Both	6208	0.40	Dow Corning 44 Med
	Baldor	5-6	Drive End	6307	0.30	Polyrex EM
		5-6	Non-Drive	6206	0.19	Polyrex EM

#### Table 2: Recommended Grease Replenishment Quantities

#### NOTICE

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

- 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	
5-7 HP	Baldor	2750 working hours	
10-13 hp	Emerson	Every 3months	
	Baldor	4750 working hours	

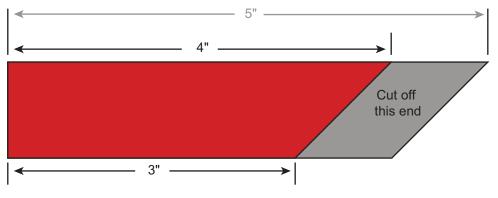


## Modifying the Pointer on the Angle Scale

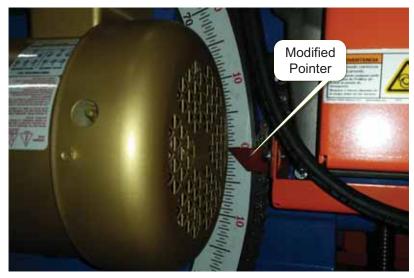
If the new motor is larger than the previous motor, it may overlap the pointer on the angle scale making the scale difficult to read. If this occurs, modify the pointer to the dimensions shown in Figure 1.

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



#### END OF SERVICE BULLETIN