Lathe-Mizer

Safety, Operation, Maintenance, & Parts Manual

LATHE **rev. A1.00 - A2.00**
LATHE-50HZ

Safety is our #1 concern! Read and understand all safety information and instructions before operating, setting up or maintaining this machine.

October 2005

Form #1337

California

Proposition 65 Warning

WARNING: Breathing gas/diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Always start and operate the engine in a well-ventilated area.
If in an enclosed area, vent the exhaust to the outside.
Do not modify or tamper with the exhaust system.
Do not idle the engine except as necessary.

For more information go to **www.P65warnings.ca.gov**.

WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection.

For more information go to **www.P65Warnings.ca.gov/wood**.

Wood-Mizer
8180 West 10th Street
Indianapolis, Indiana 46214

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SECTION 1 SAFETY

IMPORTANT! Read the entire Operator's Manual before operating the lathe. Take notice of all safety warnings throughout this manual and those posted on the machine. Keep this manual with this machine at all times, regardless of ownership.

Only persons who have read and understood the entire operator's manual should operate the lathe. The lathe is not intended for use by or around children.

WARNING! Clean sawdust from all guards, vents, control boxes, or any area where sawdust may gather **after every shift**. Failure to do so may result in fire, causing death or serious injury.

DANGER! Make sure all guards and covers are in place and secured before operating this machine. Failure to do so may result in serious injury.

DANGER! Keep all persons out of the path of moving equipment and logs when operating sawmill or loading and turning logs. Failure to do so will result in serious injury.

DANGER! Hazardous voltage at the motor and inside the on/off control box can cause shock, burns, or death. Turn off and unplug the lathe before servicing! Keep all electrical component covers closed and securely fastened during operation.

DANGER! Maintain a clean and clear path for all necessary movement around the machine. Failure to do so will result in serious injury.

WARNING! Provide a safe environment for operating the lathe. The area should be well lit, dry and free of flammable liquids or gases.

WARNING! Always wear eye, ear, respiration, and foot protection when operating this machine. Failure to do so may result in serious injury.

WARNING! Use of this machine can generate and disburse dust and other airborne particles including wood, crystalline silica and asbestos. Use a dust collection system wherever possible. Avoid breathing dust and/or prolonged contact with dust. Wear appropriate respiratory protection during operation and wash exposed skin with soap and water. Exposure to dust may cause serious and permanent respiratory damage including lung disease, cancer and death.

WARNING! Inspect the material to be worked for splits, defects and/or foreign materials. Such materials could fly apart when spinning, possibly causing injury or death.

WARNING! Before using the lathe, spin the clamped log manually to make sure it clears all objects, spins freely and is centered in the lathe.

WARNING! Secure all loose clothing, jewelry and long hair before operating the sawmill and lathe. Failure to do so may result in serious injury or death.

WARNING! Always make sure log is clamped securely before sawing. Failure to do so may result in serious injury or death.

WARNING! Before connecting the lathe to the electrical power supply, make sure the motor switch is in the OFF position. Failure to do so may result in serious injury.

WARNING! Inspect the power cord and any extension cords before plugging the lathe into an electrical outlet. Do not use if the cords are damaged. Be sure extension cords are rated and sized for this application. Use only extension cords equipped with a 3-prong grounded plug. Failure to do so may result in electrical shock, death or machine damage.

WARNING! Plug the machine into a properly grounded 110 - 120 volt receptacle. Failure to do so may result in injury and/or damage to the machine.

WARNING! Only use the lathe as described in this manual. Do not attempt to use any additional tooling with this option. Serious injury may result.

WARNING! Do not loosen the idle end spindle while spinning the material with the electric motor. Doing so may result in serious injury or death.

WARNING! To avoid possible injury from flying debris, keep all persons clear of the area during operation.

SECTION 2 OPERATION

The Lathe-Mizer Option allows you to quickly shape 3, 6 or 8-sided posts with your Wood-Mizer sawmill. The lathe is equipped with an electric motor that spins the log to create round posts (from an oversized 8-sided post). The following instructions will guide you in installation, operation, and maintenance of the Lathe-Mizer.

See Figure 2-1. The major components of the Lathe-Mizer Option are identified below.

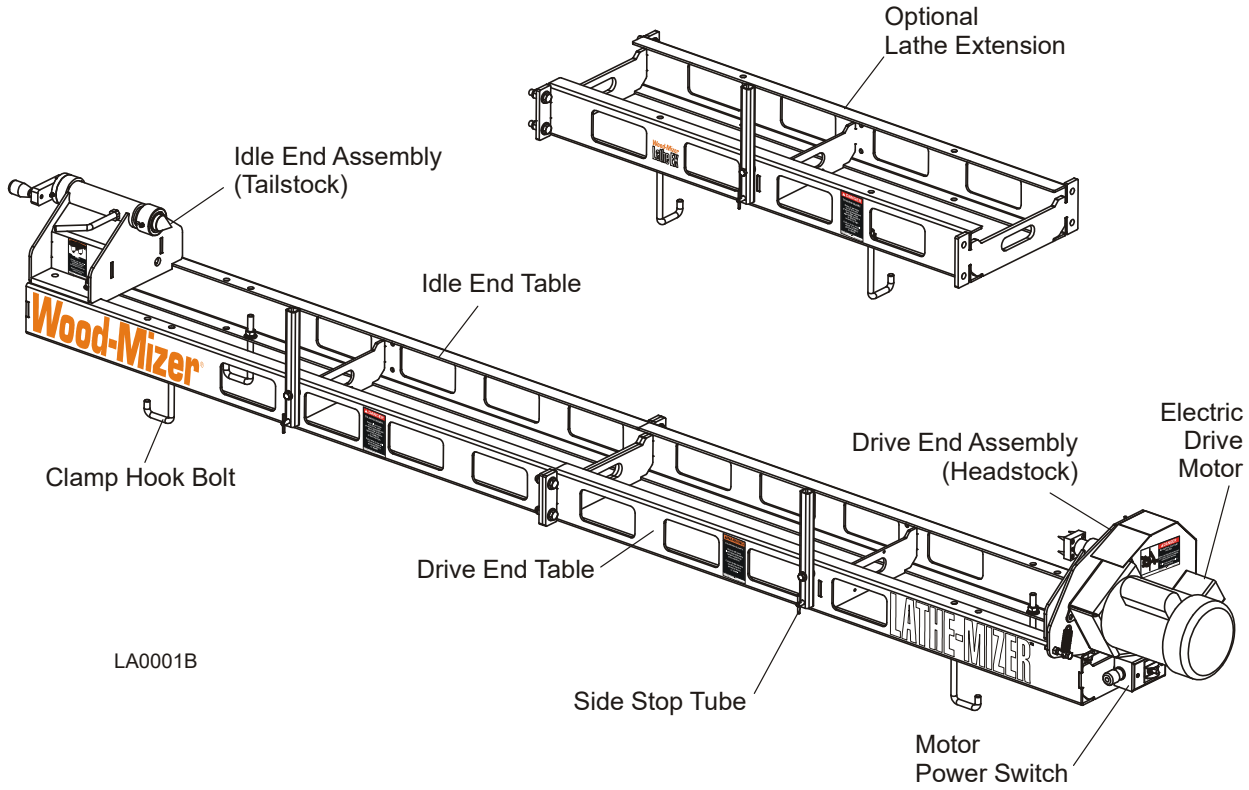


FIG. 2-1

2.1 Installation & Setup

1. Unpack the lathe from the shipping container.

2. Raise all the side supports on the sawmill bed.

3. Assemble both lathe tables to the sawmill bed. If applicable, place the optional extension between the lathe tables. Position the tables so the side stop tubes are on the loading side of the sawmill bed. Make sure the lathe tables are lying flat on the bed rails. Connect the lathe tables together with the provided fasteners. Slide the lathe table assembly against the sawmill side supports.

   See Figure 2-2.

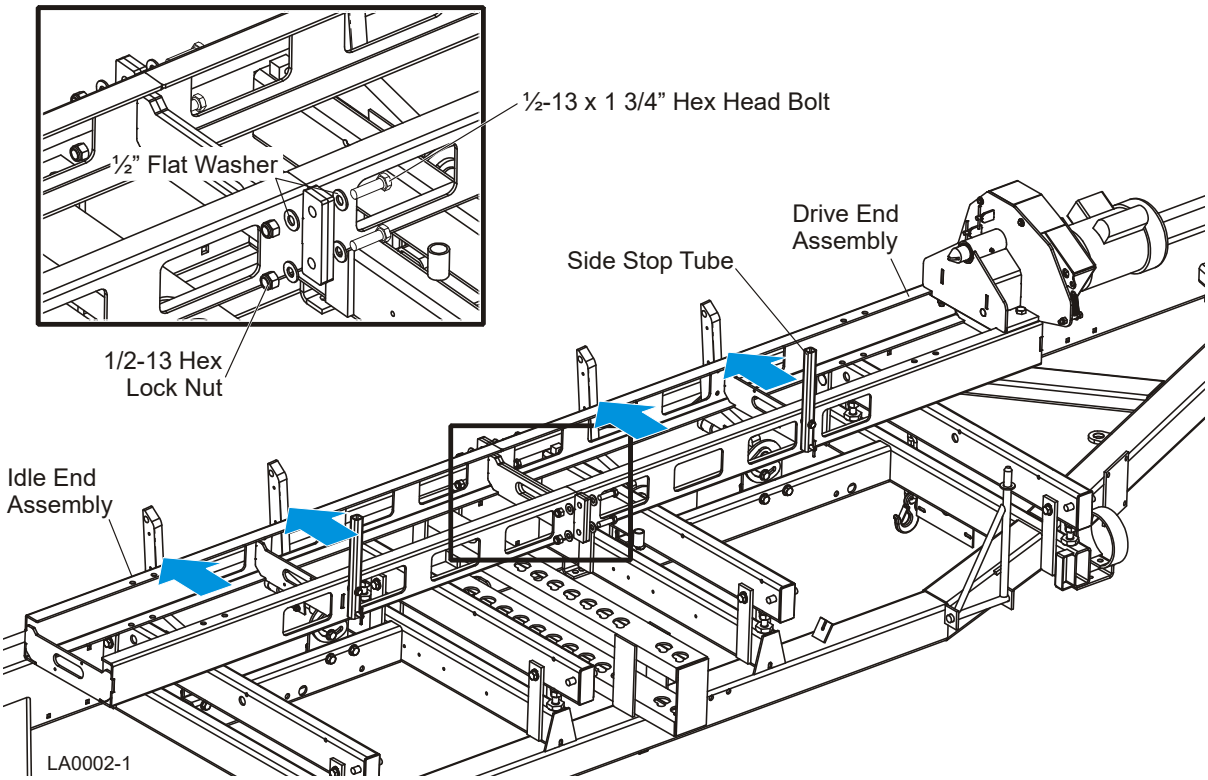


FIG. 2-2

4. **Without LatheEX:** Use the provided hook bolts and hardware to secure the lathe table assembly to the sawmill bed rails.

   See Figure 2-3.

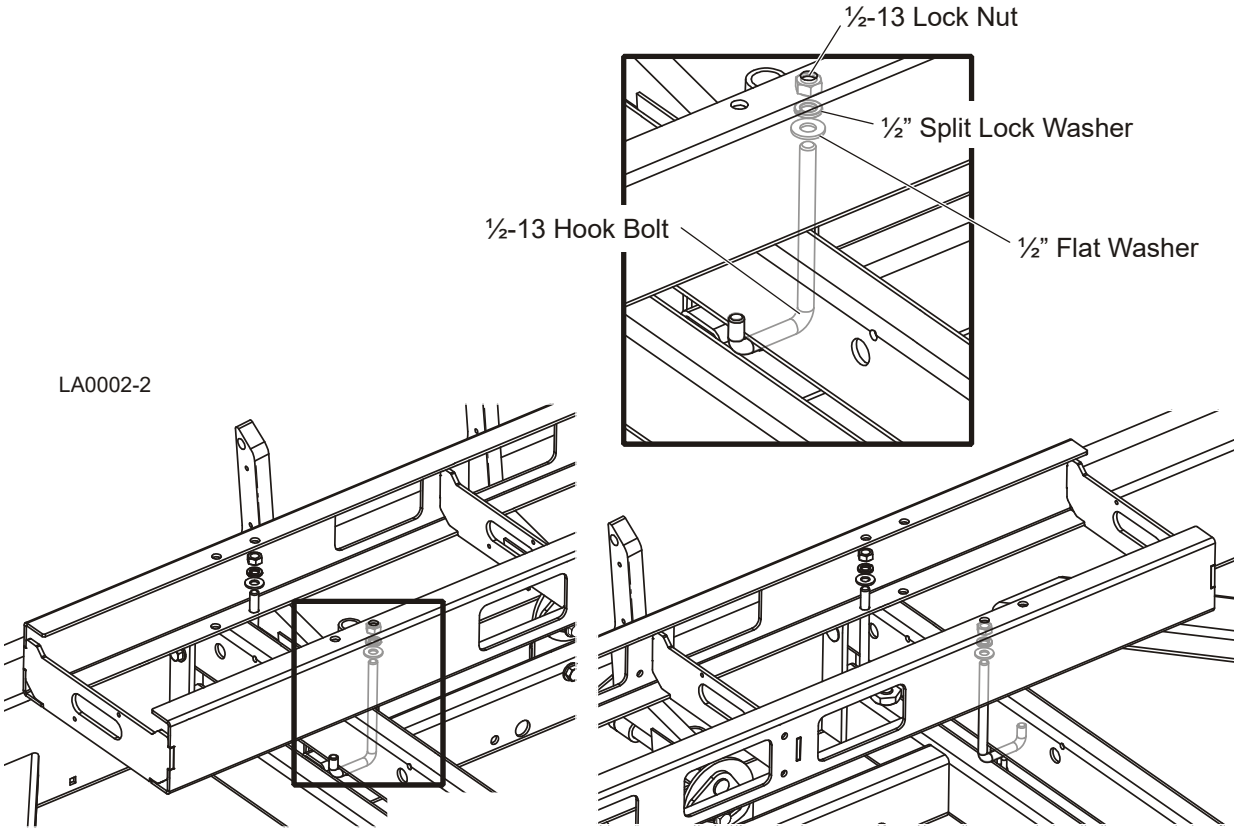


FIG. 2-3

5. **With LatheEX:** Use the hold down plates, extended hook bolts and hardware provided with the LatheEX option to secure the ends of the lathe assembly to the sawmill bed. Use the other two hook bolts and hardware to secure the LatheEx section to the sawmill bed.

   See Figure 2-4.

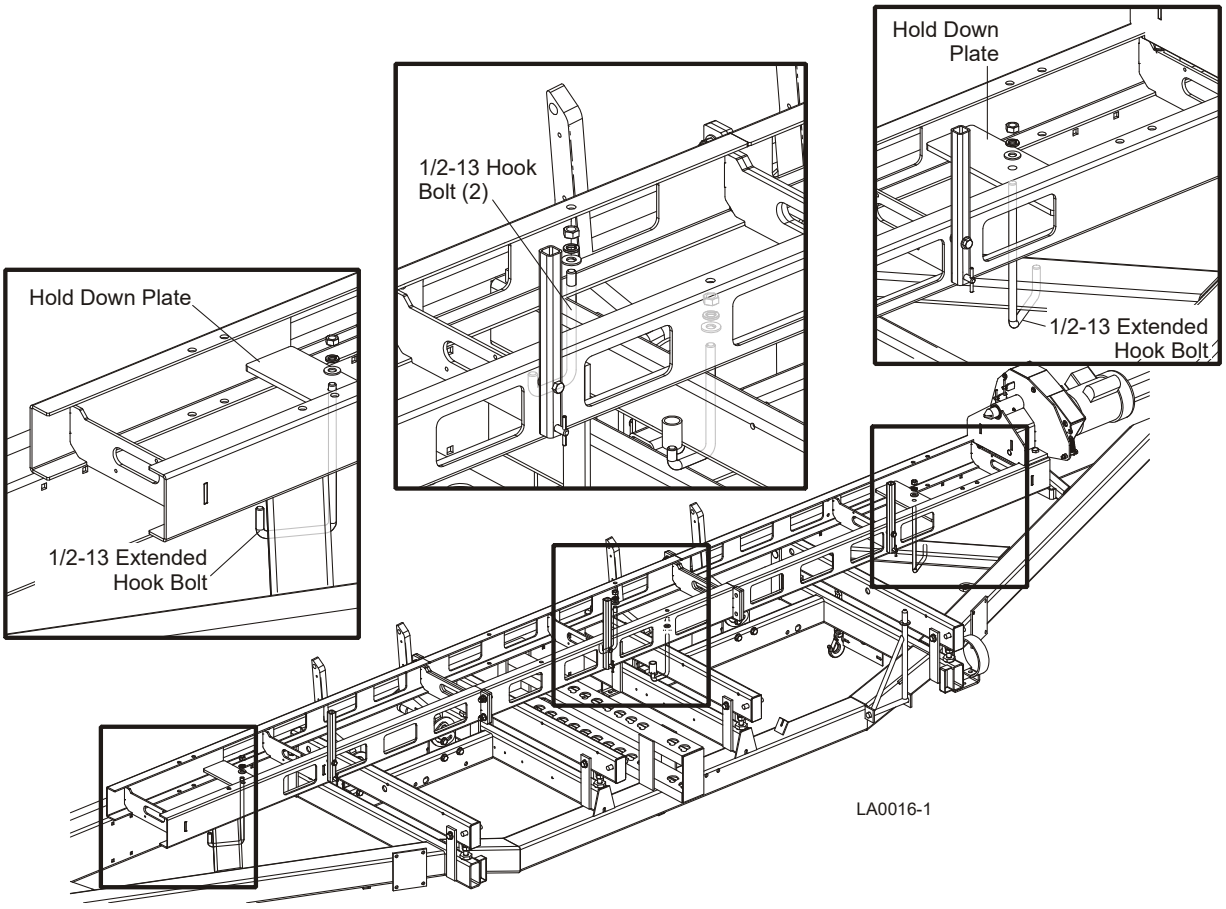


FIG. 2-4

6. Relocate the drive assembly from the shipping position to its operating position at the rear of sawmill. Loosen the drive assembly mounting nuts. Slide the assembly to the end of the drive end table until the guard plate is aligned with the end of the table. Tighten the mounting nuts to secure in place.

   See Figure 2-5.

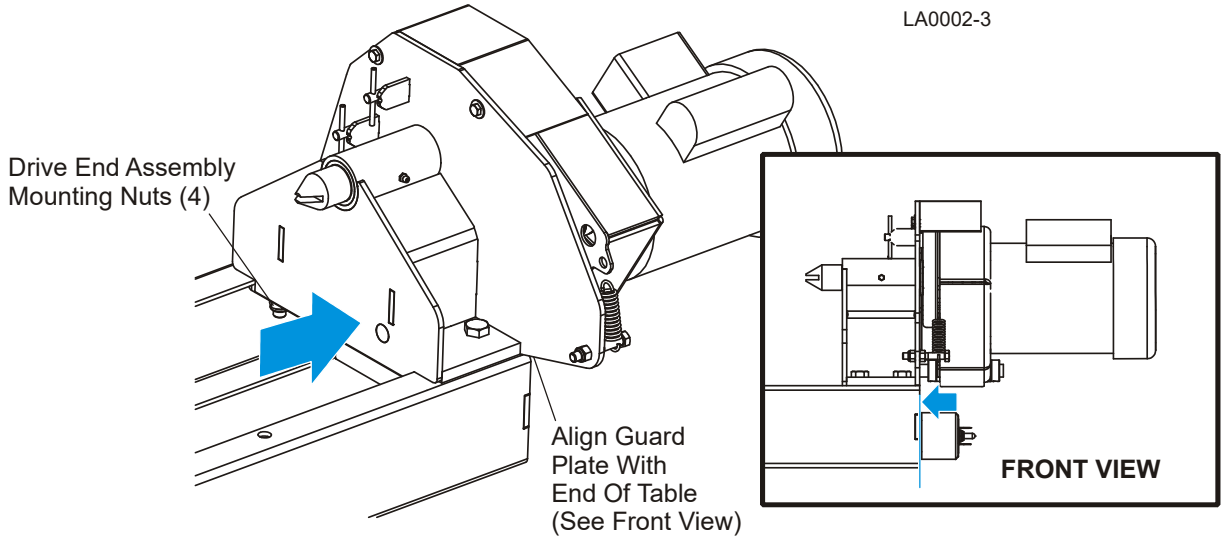


FIG. 2-5

7. Install the idle end assembly to the idle end table at the front of the sawmill. Slide the assembly onto the idle end table. Leave the two mounting nuts loose. The location of the idle end assembly will be adjusted depending on the length of material to be worked. Once the material is loaded into the lathe and the idle end assembly positioned, the mounting nuts will be tightened.

See Figure 2-6.

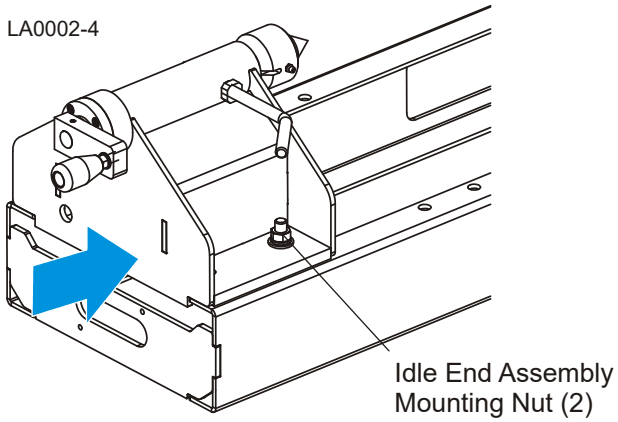


FIG. 2-6

8. A stop clamp is supplied that will prevent the saw head from traveling far enough that the blade contacts the drive end assembly. To determine where to install the stop clamp, move the saw head so the blade is positioned between end of the spindle and the guard plate on the drive end assembly. Install the provided saw head stop clamp to the sawmill top track rail, against the track roller housing. Tighten the bottom bolt on the clamp to secure in place.

   See Figure 2-7.

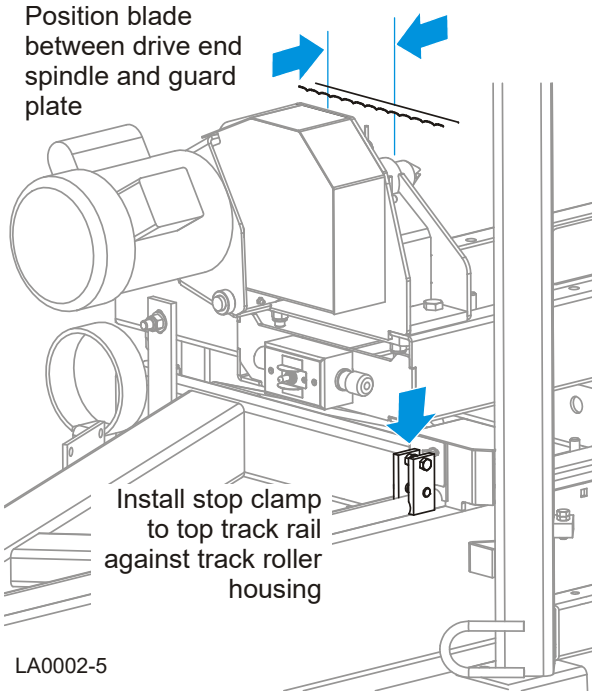


FIG. 2-7

9. **LT15 Sawmill Only:** If you are mounting the Lathe-Mizer Option to a LT15 model sawmill, the installation procedure is the same as described above with one addition. Two additional track scrapers (Part No. 049388) are required to mount to the upper track roller housings. Remove the middle track wiper mounting bolts and lock washers. Install the new scrapers and replace the bolts and lock washers.

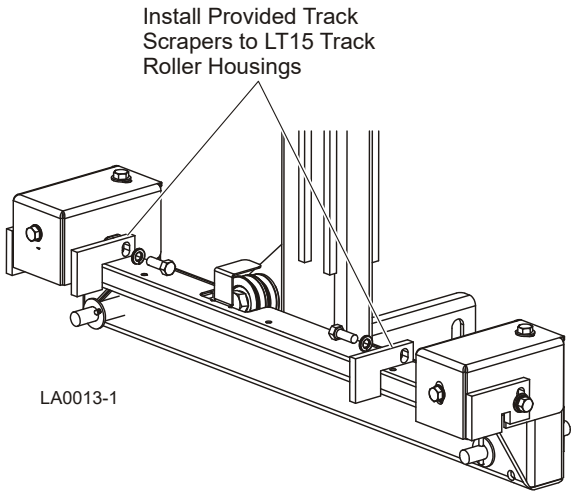


FIG. 2-7

10. Before loading a log into the lathe, determine the location of the spindle centers. Raise the saw head so the blade clears the lathe. Move the saw head so the blade is just past the idle end spindle. Lower the saw head until the blade is aligned with the center of the spindle. Note the blade height as indicated by the blade height scale (should be approximately 11-1/8" on most sawmills). Mark this location on the blade height scale or write it down. This measurement will be used to calculate cuts made on the lathe.

See Figure 2-8.

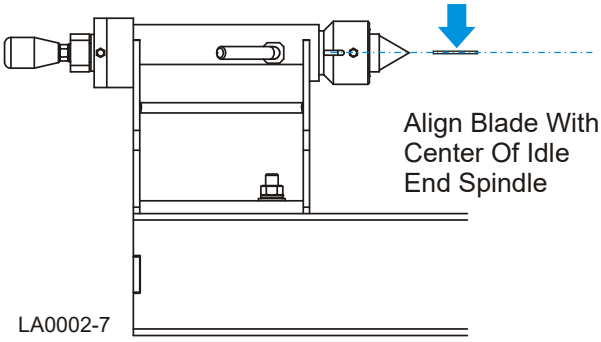


FIG. 2-8

11. Raise the saw head and return it to the front of the sawmill.

2.2 Operation

DANGER! Make sure all guards and covers are in place and secured before operating this machine. Failure to do so may result in serious injury.

DANGER! Keep all persons out of the path of moving equipment and logs when operating sawmill or loading and turning logs. Failure to do so will result in serious injury.

DANGER! Maintain a clean and clear path for all necessary movement around the machine. Failure to do so will result in serious injury.

WARNING! Provide a safe environment for operating the lathe. The area should be well lit, dry and free of flammable liquids or gases.

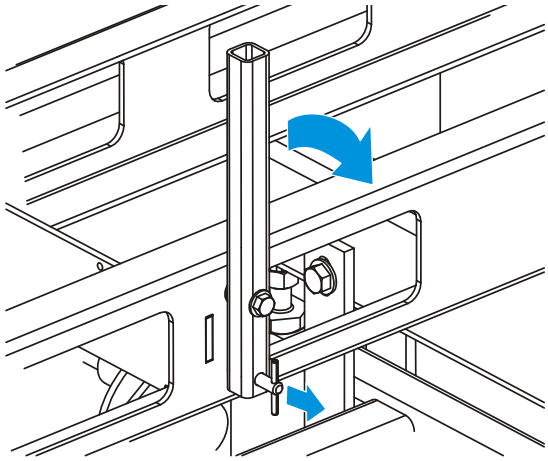
1. Make sure both ends of the log are cut square. Use a chainsaw to square the ends of the logs if necessary.

WARNING! Always wear eye, ear, respiration, and foot protection when operating this machine. Failure to do so may result in serious injury.

WARNING! Use of this machine can generate and disburse dust and other airborne particles including wood, crystalline silica and asbestos. Use a dust collection system wherever possible. Avoid breathing dust and/or prolonged contact with dust. Wear appropriate respiratory protection during operation and wash exposed skin with soap and water. Exposure to dust may cause serious and permanent respiratory damage including lung disease, cancer and death.

2. Pivot the side stop tubes down before loading the log. Pull the locking pin out, pivot the side stop tube down and release the locking pin.

   See Figure 2-9.



LA0002-6

Pull Locking Pin Out and Pivot Side Stop Tube Down

FIG. 2-9

3. Install one of the provided dog brackets to the center of the drive end of the log. Use a rubber mallet to drive the bracket into the end of the log. An extra dog bracket is provided so you may have a second log prepared to load into the lathe.

   See Table 2-1. The maximum diameter log the lathe can accept is 15 1/2” (39.4 cm). The maximum size square cant the lathe can accept is 11” (27.5 cm). The length of log or cant depends on the diameter of the finished piece.

Maximum log or cant length	Min. Dia. of Finished Piece
6’	3”
8’	4”
10’ (w/LatheEx only)	5”
12’ (w/LatheEx only)	6”

TABLE 2-1

4. Load the log onto the lathe with the dog bracket oriented toward the drive end spindle. Position the log so the dog bracket engages the drive end spindle.

WARNING! Inspect the material to be worked for splits, defects and/or foreign materials. Such materials could fly apart when spinning, possibly causing injury or death.

See Figure 2-10.

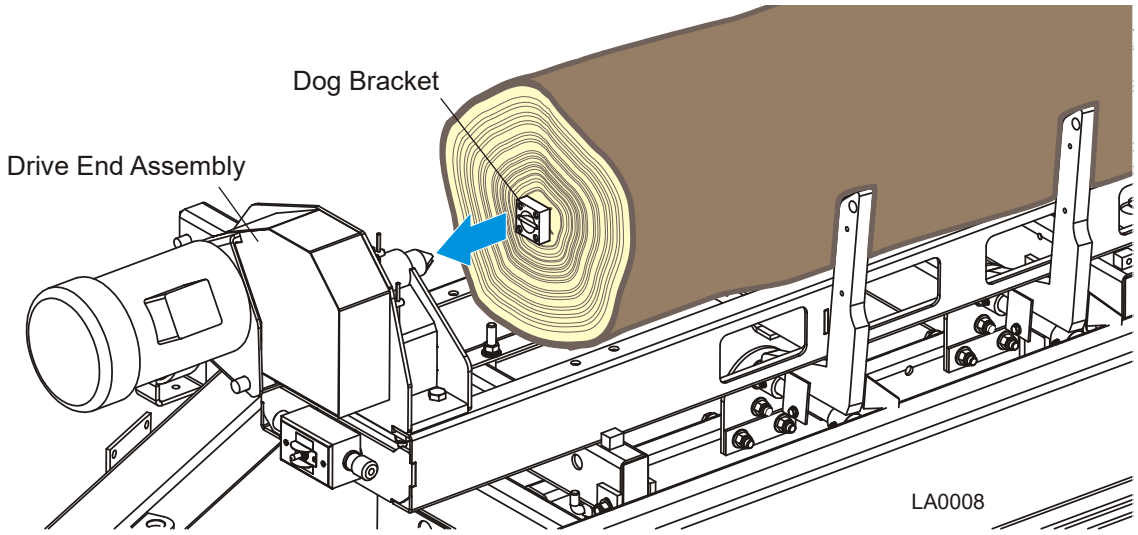


FIG. 2-10

5. Slide the idle end assembly toward the end of the log until the spindle is positioned exactly at the center of the log to keep it balanced during operation. Tighten the idle end assembly mounting nuts. Loosen the lock handle and turn the crank handle to force the spindle into the end of the log. Turn the lock handle to lock the idle end spindle in position. Pivot the side stop tubes to their vertical position and lock in place with the locking pins.

See Figure 2-11.

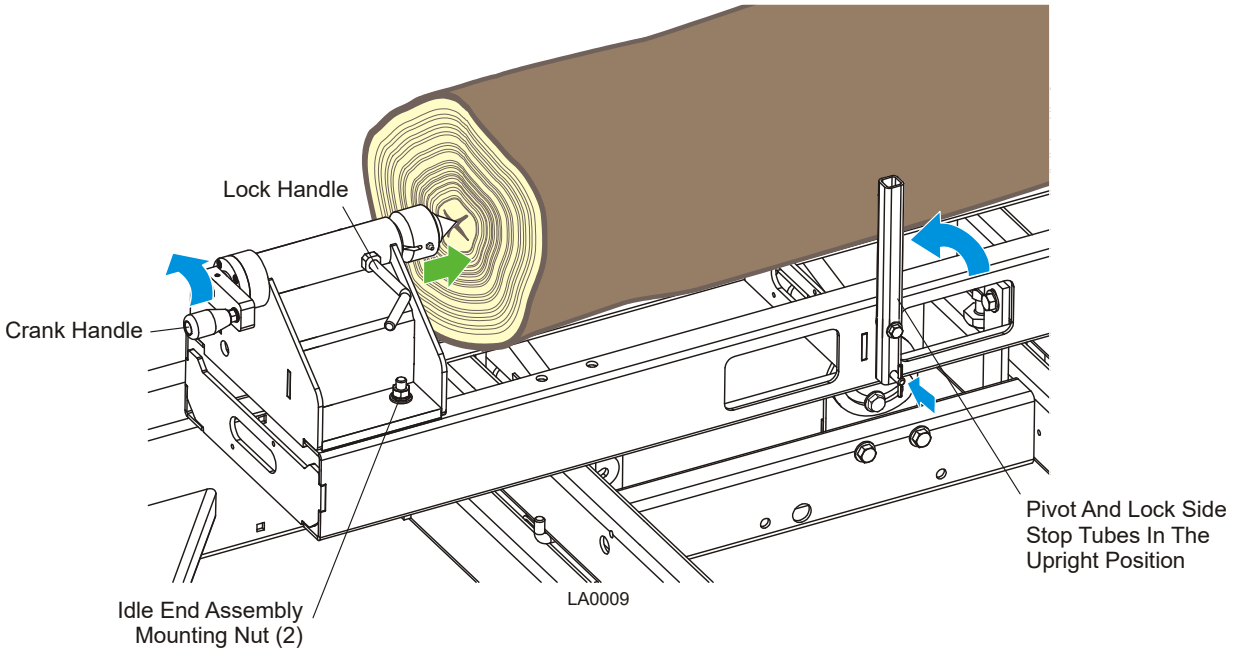


FIG. 2-11

WARNING! Always make sure log is clamped securely before sawing. Failure to do so may result in serious injury or death.

6. Spin the log by hand and check that it spins evenly and clears all objects.

WARNING! Before turning the lathe on, spin the clamped log manually to make sure it clears all objects, spins freely and is centered in the lathe.

You are now ready to cut the log or cant into the desired shape. The lathe is equipped with two lock pins for cutting 3/6-sided posts or 8-sided posts. To cut round posts, first shape the log into an 8-sided post that is 1/4” bigger in diameter than the finished round post.

7. Always follow all safety and operating procedures explained in the sawmill operator’s manual when using the Lathe-Mizer.

WARNING! Always wear eye, ear, respiration, and foot protection when operating this machine. Failure to do so may result in serious injury.

WARNING! Use of this machine can generate and disburse dust and other airborne particles including wood, crystalline silica and asbestos. Use a dust collection system wherever possible. Avoid breathing dust and/or prolonged contact with dust. Wear appropriate respiratory protection during operation and wash exposed skin with soap and water. Exposure to dust may cause serious and permanent respiratory damage including lung disease, cancer and death.

WARNING! Secure all loose clothing, jewelry and long hair before operating the sawmill and lathe. Failure to do so may result in serious injury or death.

See Figure 2-12.

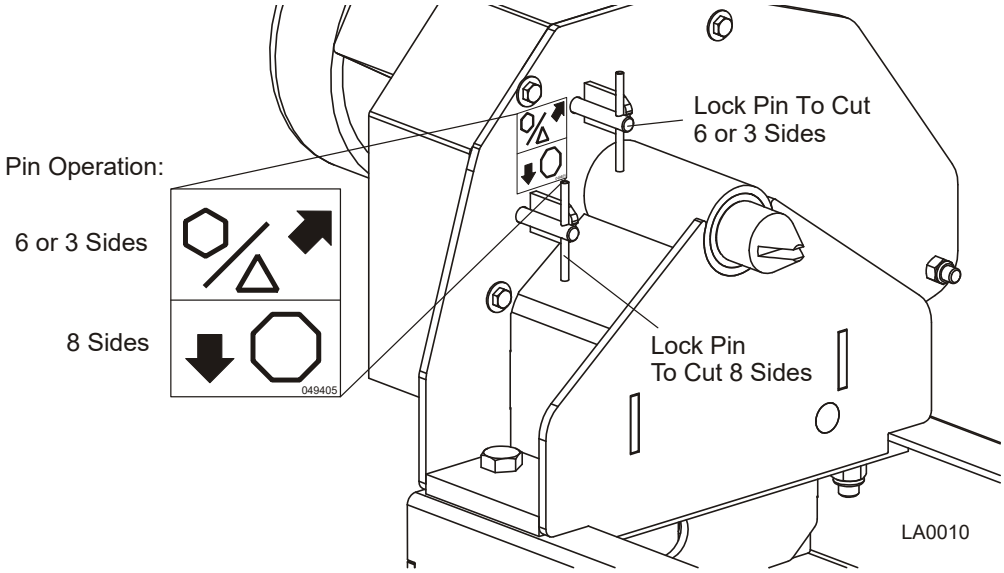


FIG. 2-12

8. Engage one of the two locking pins on the lathe drive end assembly to make the first cut. **IMPORTANT:** Only one pin can be engaged at the same time. The other pin must remain in the disengaged position in the retaining bracket. To engage the desired pin, pull the pin out from the retaining bracket and rotate it 90° and release. Spin the log manually until the pin locks into a hole in the index wheel.

   See Figure 2-13.

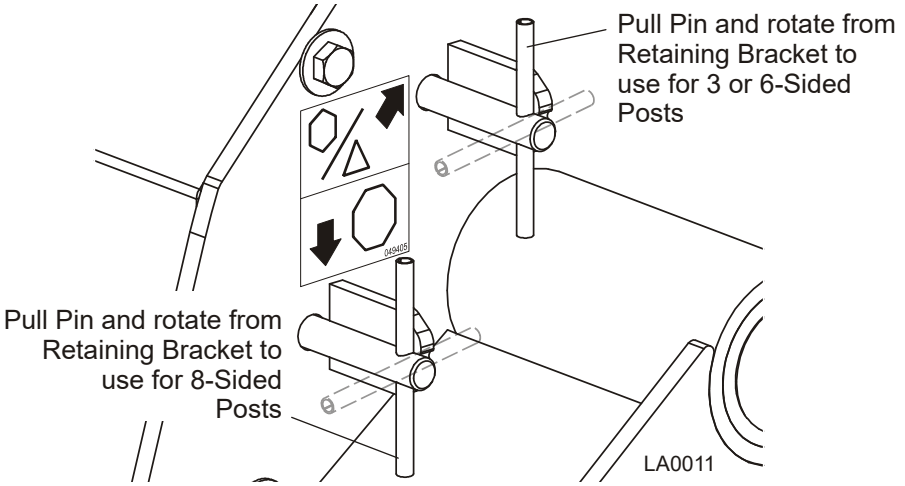


FIG. 2-13

9. Determine the height of the blade for the first cut. Use the blade height measurement to the spindle center measured previously (*See Section 2.1*, *Step 10.*). Add half the finished post diameter to the spindle center measurement to determine the cutting position of the blade.

Example: If you need to shape a post to 8” in diameter and the blade height at the spindle center is 11-1/8”, you need to position the blade at 15-1/8” (4” above the spindle center). If you want to finish with an 8” diameter round post, set the blade 1/8” higher to cut an oversized 8 1/4” octagon. After the octagon is complete, the blade will be lowered 1/8” to finish the round post.

See Figure 2-14.

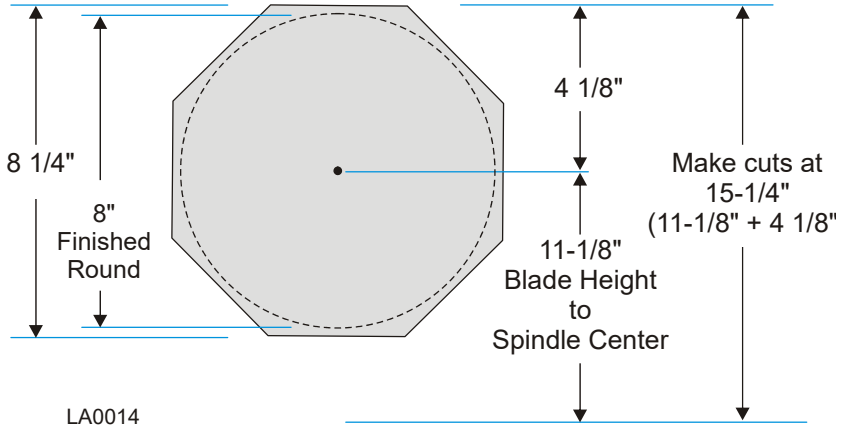


FIG. 2-14

10. Position the saw head so the blade is near the front end of the log/cant. Lower the blade to the desired cutting position and make the first cut.

11. After making the cut return the saw head carriage. Pull the locking pin and turn the log slightly. Release the locking pin and continue turning the log manually until the locking pin engages the next available index hole. If you are cutting 3-sided posts, rotate the log to the second available index hole.

12. Make another cut at the same height as the first cut. Repeat until you have all sides of the post cut.

13. Disengage the locking pin and secure in the retaining bracket when finished. **NOTE:** Both locking pins must be in the disengaged before starting the lathe motor.

CAUTION! To prevent machine damage, make sure both locking pins are disengaged and secured in the retaining brackets before starting the drive motor.

14. To turn a round post, make sure the motor switch is in the OFF position and plug the power cord into an appropriate outlet. **NOTE:** To shape round posts, you should first shape an 8-sided post that is 1/4" larger than the finished round post diameter.

WARNING! Before connecting the lathe to the electrical power supply, make sure the motor switch is in the OFF position. Failure to do so may result in serious injury.

WARNING! Inspect the power cord and any extension cords before plugging the lathe into an electrical outlet. Do not use if the cords are damaged. Be sure extension cords are rated and sized for this application. Use only extension cords equipped with a 3-prong grounded plug. Failure to do so may result in electrical shock, death or machine damage.

WARNING! Plug the machine into a properly grounded 110 - 120 volt receptacle. Failure to do so may result in injury and/or damage to the machine.

WARNING! Do not loosen the idle end spindle while spinning the material with the electric motor. Doing so may result in serious injury or death.

WARNING! To avoid possible injury from flying debris, keep all persons clear of the area during operation.

WARNING! Only use the lathe as described in this manual. Do not attempt to use any additional tooling with this option. Serious injury may result.

15. Position the blade near the front of the post and lower to the desired blade height.

16. Lower the cutting head from the previous cutting position by 1/8” to start shaping a round post.

Example: If the height of the blade was 15-1/4” to make the 8-sided post, lower the blade 1/8” to 15-1/8” on the blade height scale. This should give you a round post of 8” in diameter.

17. Turn the lathe motor switch to the ON position.

18. Engage the blade and make the first shaping cut at a moderate feed rate. Watch the revolving material to make sure the feed rate is not too high. If the feed rate is too high, the blade will not remove material from the log evenly. More than one pass with the blade at the same height may be required to make the post as round as possible.

Sand the post with sand paper to achieve a smooth, round surface if needed.

19. When the lathe operation is complete, return the saw head to the front of the sawmill, turn the sawmill off and remove the key. Turn the lathe motor switch to the OFF position and unplug the lathe.

20. Loosen the lock handle on the idle end assembly and crank the idle end handle to unclamp the shaped material.

21. Remove the shaped post from the lathe and remove the dog bracket from the post.

22. Repeat Steps 1 - 21 for other logs to be cut.

2.3 Maintenance

DANGER! Hazardous voltage at the motor and inside the on/off control box can cause shock, burns, or death. Turn off and unplug the lathe before servicing! Keep all electrical component covers closed and securely fastened during operation.

Little maintenance is required to keep the Lathe-Mizer working properly.

1. Lubricate the drive and idle end spindles with a NLGI #2 grade lithium grease every 40 hours of operation.

2. Periodically check the motor drive belt for tension and wear. Replace as necessary.

3. When not using the lathe for periods of time, apply a rust inhibitive such as Sherwin-Williams PDRP #710 to the idle end spindle.

2.4 Specifications

See Table 2-2. Machine weight, height, width and length dimensions are listed below.

Weight	**Bed Section (two bed sections per lathe)**	52 lbs. (23.6 kg)
	Drive End Assembly	85 lbs. (38.5 kg)
	Idle End Assembly	39 lbs. (17.7 kg)
	Total Weight	228 lbs. (103.4 kg)
Height		15-3/4" (40.0 cm)
Width		19-1/4" (48.9 cm)
Length		140-1/4" (3.56 m)

TABLE 2-2

See Table 2-3. The log size capacities are listed below.

Max. Log Length [1]	**Standard**	8’ 4" (2.54 m)
	w/LatheEX	12’ (3.66 m)
Max. Material Width	**Log**	15 1/2" (39.4 cm) Dia.
	Cant	11" (27.5 cm) Sq.

TABLE 2-3

[1] The log length is also limited by the diameter of the finished material (*See table 2-1*).

See Table 2-4. The drive belt size is listed below.

Belt Description	Belt Type	WM Part No.
Drive Motor Belt	4L290	036206

TABLE 2-4

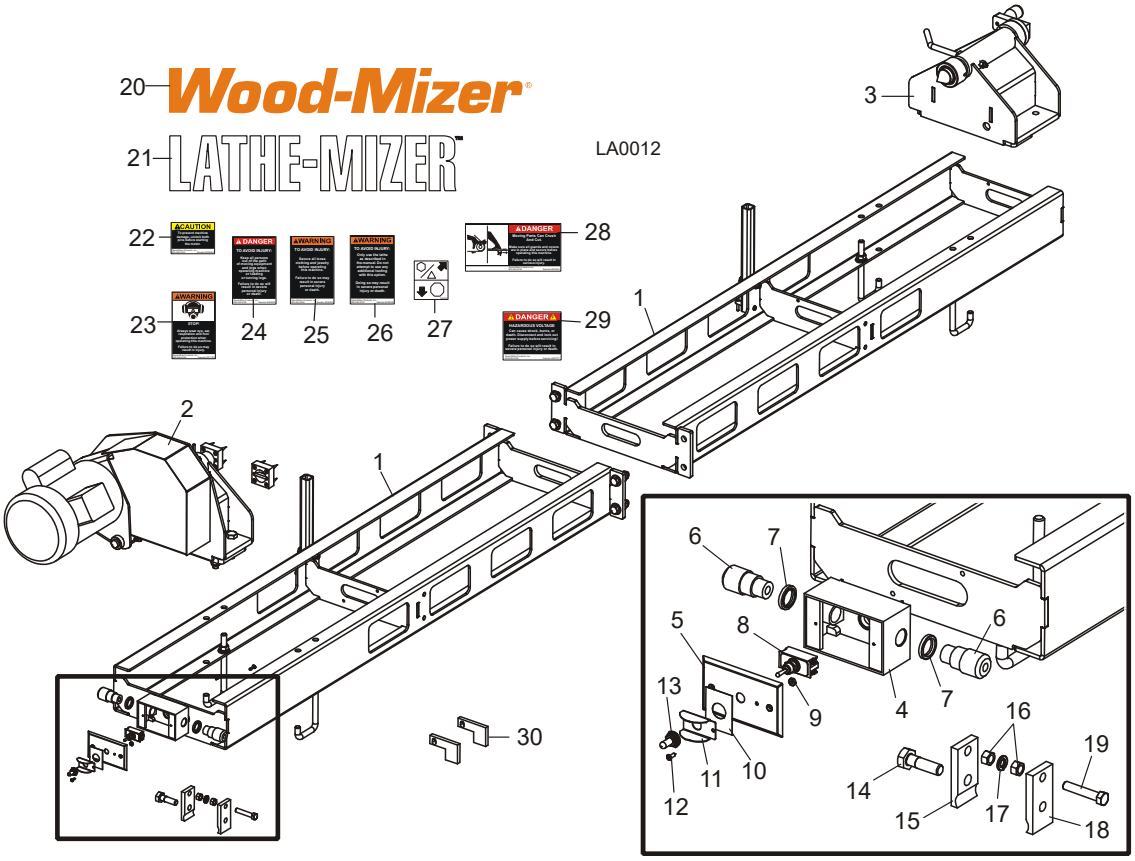
See Table 2-5. This table lists the specifications for the 60Hz and 50Hz electric motor.

Electric Motor Specifications	60Hz	50Hz
Horsepower	1	1
RPM	1725	1425
Volts	115/208-230	110/220
Full-Load Amps	12.8/6.4	12.8/6.4
SF	1.15	1.0
NOM EFF	75	73
Frame	56C	56C
Design	N	---
AMB	40° C	40° C
INS	F4	F4
PH	1	1
ENCL	TEFC	TEFC
Code	IP54	IP54
Duty	Continuous	Continuous

TABLE 2-5

SECTION 3 REPLACEMENT PARTS

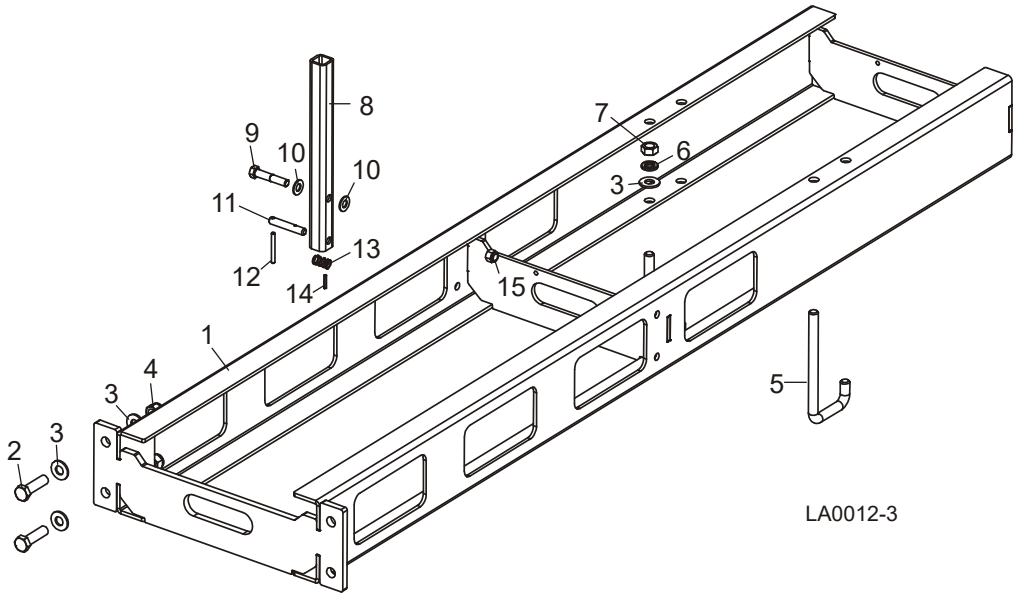
3.1 Lathe-Mizer Assembly



REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	LATHE OPTION, WOOD-MIZER	LATHE	1	
	LATHE OPTION, WOOD-MIZER 50HZ	LATHE-50HZ	1	
1	Table Parts (*See Section 3.2*)			
2	Drive End Parts (*See Section 3.3*)			
3	Idle End Parts (*See Section 3.4*)			
	Control Assembly, Lathe-Mizer On/Off	052443	1	
4	Box, Electrical Switch	049407	1	
5	Lid, Switch Box Drilled	049408	1	
6	Connector, 1/2 .125-.375 Portable Cord	E23492	2	
7	Ring, 1/2” Sealing	E20460	2	
8	Switch, DPST Toggle 1HP Screw Terminals	052440	1	
9	Nut, #6-32 Hex	F05010-44	1	

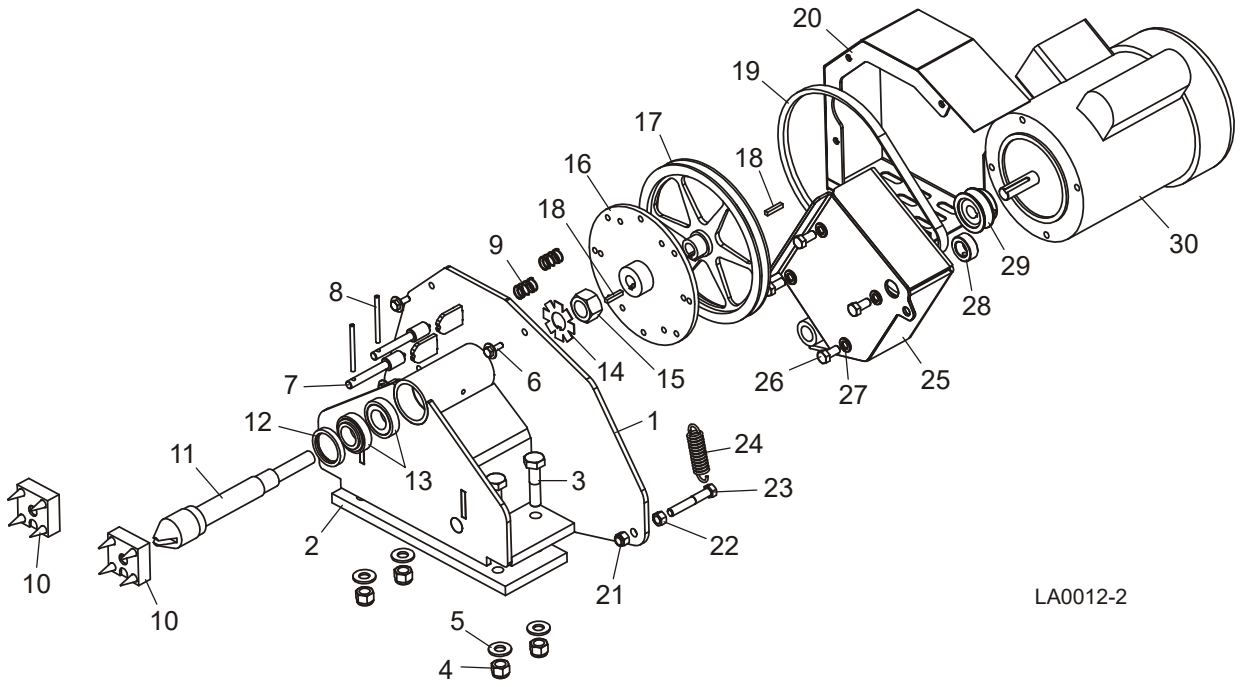
10	Decal, Lathe-Mizer Control	052442	1	
11	Guard, Blade Switch	019612	1	
12	Bolt, #6-32 x 3/8 Socket Head	F05004-65	1	
13	Boot, Switch Sealing	024589	1	
	Clamp Assembly, Way Rod	A08865	1	
14	Bolt, 1/2-20 x 1 3/4” Hex Head Grade 5	F05008-49	1	
15	Clamp, Way Rod Right	S08867	1	
16	Nut, 3/8-16 Hex	F05010-1	2	
17	Washer, 3/8” Split Lock	F05011-4	1	
18	Clamp, Way Rod Left	S08866	1	
19	Bolt, 3/8-16 x 2” Hex Head Full Thread	F05007-16	1	
20	Decal, Wood-Mizer Orange Logo	049401	2	
21	Decal, Lathe-Mizer White Logo	049400	2	
22	Decal, Unlock Pins Caution	049404	1	
23	Decal, Eye/Ear Protection Warning	S11753	4	
24	Decal, Keep Away Danger	049402	2	
25	Decal, Secure Clothing Warning	049403	2	
26	Decal, Use Of Lathe Warning	038502	2	
27	Decal, Lathe Pin Operation	049405	1	
28	Decal, Moving\Parts Danger	033254	1	
29	Decal, Hazardous Voltage Danger	047727	1	
30	**SCRAPER, INNER LT15 TRACK** (2 required to install LATHE to LT15 sawmill)	049388	2	

3.2 Table Assemblies



REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	TABLE ASSEMBLY, IDLE END	049058	1	
	TABLE ASSEMBLY, DRIVE END	049059	1	
1	Bed Weldment, Lathe	049057	1	
2	Bolt, 1/2-13 x 1 3/4" Hex Head Grade 5	F05008-88	2	
3	Washer, 1/2" SAE Flat	F05011-2	6	
4	Nut, 1/2-13 Nylon Hex Lock	F05010-8	2	
5	Bolt, 1/2-13 Hook	049354	2	
6	Washer, 1/2" Split Lock	F05011-9	2	
7	Nut, 1/2-13 Free Hex	F05010-35	2	
8	Tube, Lathe Stop	049351	1	
9	Bolt, 3/8-16 x 2" Hex Head Grade 5	F05007-124	1	
10	Washer, 3/8" Flat SAE	F05011-3	2	
11	Pin, Post Lock	049352	1	
12	Pin, 3/16" x 1 3/4" Roll	F05012-103	1	
13	Spring, .48 OD x .88 Long x .045 Wire, Comp.	049365	1	
14	Pin, 1/8" x 3/4" Roll	F05012-6	1	
15	Nut, 3/8-16 Hex Nyl Lock	F05010-10	1	

3.3 Drive End Assembly



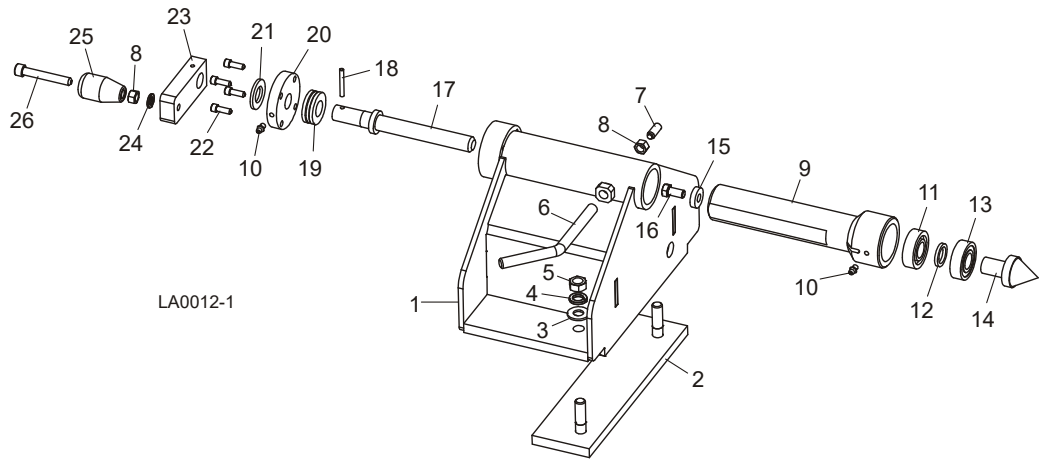
REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	END ASSEMBLY, DRIVE (60HZ)	049062	1	
	END ASSEMBLY, DRIVE (50HZ)	038600	1	
1	Head Weldment, Lathe Drive	049060	1	
2	Plate, Drive Head Clamp	049094	1	
3	Bolt, 1/2-13 x 2 1/4” Hex Head Grade 5	F05008-10	4	
4	Nut, 1/2-13 Nylon Hex Lock	F05010-8	4	
5	Washer, 1/2” SAE Flat	F05011-2	4	
6	Bolt, 1/4-20 x 3/4” W/Conical Washer	F05005-134	3	
7	Pin, Spindle Lock	056803 [1]	2	
8	Pin, 3/16” x 2 1/2” Roll	F05012-27	2	
9	Spring, .60 OD x 1 Long x .045 Wire, Comp.	055928 [2]	2	
10	Bracket Weldment, Lathe Drive Dog	049075	2	
11	Shaft, Lathe Drive	049072	1	
12	Seal, Grease, 1.417 x 1.850 x .276	049071	1	
13	Bearing, Taper Roller, .984 x 1.850 x .591	049070	2	
14	Washer, Tab Lock	049096	1	
15	Nut, 7/8-14 Free	F05010-139	1	
16	Plate Weldment, Spindle Lock	061743 [1]	1	
17	Sheave, 8A x 5/8	P04343	1	

18	Key, 3/16” Square x 1”	S31027	1	
19	Belt, 4L290	036206	1	
20	Cover Weldment, Lathe Drive	049117	1	
21	Nut, 3/8-16 Hex Nyl Lock	F05010-10	1	
22	Nut, 3/8-16 Hex	F05010-1	1	
23	Bolt, 3/8-16 x 2-1/2” Hex Head Grade 5	F05007-125	1	
24	Spring, .734 x 2.25 x .105 Extension	026425	1	
25	Mount Weldment, Lathe Motor	049115	1	
26	Bolt, 3/8-16 x 3/4 Hex Head Grade 5	F05007-118	4	
27	Washer, 3/8” Split Lock	F05011-4	4	
28	Collar, 3/4 ID x 1 1/4 OD x 1/2 Long	P04146	1	
29	Sheave, AK20 x 5/8” Bore (60Hz)	036179	1	
	Sheave, AK25 x 5/8” Bore (50Hz)	038601	1	
30	Motor, 1HP 1-Phase 1725RPM C-Face Leeson (60Hz)	049095	1	
	Motor, 1HP 1-Phase 1725RPM C-Fase Leeson (50Hz)	054613	1	

[1] Lock Pin 049345 replaced with 056803 and Lock Plate 049362 replaced with 061743 to ensure proper locking of log during operation (Rev. A2.00).

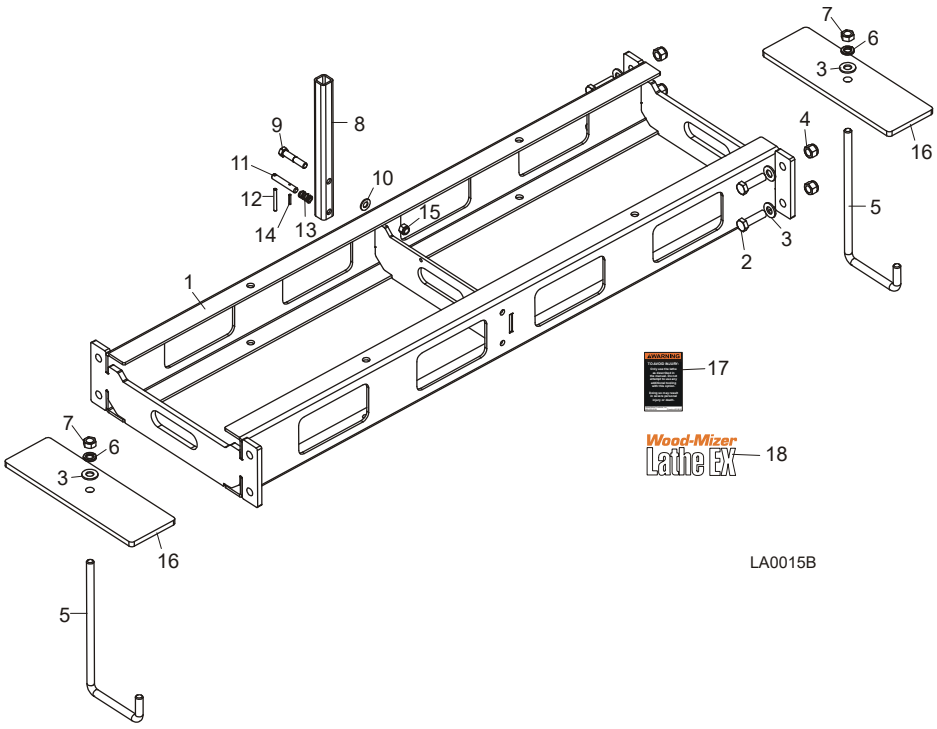
[2] Replaces 049364 originally supplied prior to 12/06. Spec of 049364 was changed for LT28 application and no longer allows pins to pull out far enough to disengage.

3.4 Idle End Assembly



REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	END ASSEMBLY, IDLE	049063	1	
1	Head Weldment, Center	049061	1	
2	Clamp Weldment, Lower Tail	049355	1	
3	Washer, 1/2" SAE Flat	F05011-2	2	
4	Washer, 1/2" Split Lock	F05011-9	2	
5	Nut, 1/2-13 Free Hex	F05010-35	2	
6	Bolt, Lock Handle	049361	1	
7	Screw, 3/8-16 x 1" Socket Head Set	F05007-88	1	
8	Nut, 3/8-16 Hex	F05010-1	2	
9	Shaft, Center Guide	049087	1	
10	Fitting, 1/4-28 Grease	P05060	2	
11	Bearing, Angular Contact Ball, .79 x 1.85 x .55	049088	1	
12	Washer, .81ID x 1.12 OD x .15	049090	1	
13	Bearing, Deep Groove Ball, .79 x 1.85 x .55	049089	1	
14	Center, Tail Stock	049091	1	
15	Washer, .39 ID x 1 OD x 1/4	049356	1	
16	Bolt, 3/8-16 x 3/4" Hex Head Grade 5	F05007-118	1	
17	Shaft, Center Tension	049085	1	
18	Pin, 3/16" x 1 1/2" Roll	F05012-17	1	
19	Bearing, Thrust Ball, .787 x 1.575 x .551	049083	1	
20	Cap, Thrust Bearing Lock	049084	1	
21	Washer, 3/4" SAE Flat	F05011-62	1	
22	Screw, 1/4-20 x 3/4" Socket Head Cap	F05005-26	4	
23	Block, Center Crank	049086	1	
24	Washer, 3/8" Split Lock	F05011-4	1	
25	Handle, Power/Feed & Up/Down	S08291-W	1	
26	Screw, 3/8-16 x 2 1/2" Socket Head Cap	F05007-24	1	

3.5 Lathe Extension (Optional)



REF	DESCRIPTION (◆ Indicates Parts Available In Assemblies Only)	PART #	QTY.	
	EXTENSION ASSEMBLY, LATHE	LATHEEX	1	
1	Bed Weldment, Lathe Extension	054647	1	
2	Bolt, 1/2-13 x 1 3/4" Hex Head Grade 5	F05008-88	4	
3	Washer, 1/2" SAE Flat	F05011-2	6	
4	Nut, 1/2-13 Nylon Hex Lock	F05010-8	4	
5	Bolt, 1/2-13 Hook	054669 [1]	2	
6	Washer, 1/2" Split Lock	F05011-9	2	
7	Nut, 1/2-13 Free Hex	F05010-35	2	
8	Tube, Lathe Stop	049351	1	
9	Bolt, 3/8-16 x 2" Hex Head Grade 5	F05007-124	1	
10	Washer, 3/8" Flat SAE	F05011-3	1	
11	Pin, Post Lock	049352	1	
12	Pin, 3/16" x 1 3/4" Roll	F05012-103	1	
13	Spring, .48 OD x .88 Long x .045 Wire, Comp.	049365	1	
14	Pin, 1/8" x 3/4" Roll	F05012-6	1	
15	Nut, 3/8-16 Hex Nyl Lock	F05010-10	1	
16	Plate, Lathe Hold Down	054806 [1]	2	
17	Decal, Use Of Lathe Warning	038502	2	
18	Decal, LatheEX Logo	054659	2	

[1] Hook Bolt 054669 and Hold Down Plate 054806 replace Hook Bolt 049354 to improve stability of extension (3/06).

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