



EXMAC

Operating Instructions and Parts Manual Wood BandSaw

Model : AB-BS15-U



EXMAC

www.exmactools.com

VER.1



IMPORTANT SAFETY INSTRUCTIONS

WARNING – To reduce risk of injury:

1. Read and understand the entire owner's manual before attempting assembly or operation.
2. Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
3. Replace warning labels if they become obscured or removed.
4. This wood lathe is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a wood lathe, do not use it until the proper training and knowledge have been obtained.
5. Do not use this lathe for other than its intended use. If used for other purposes, EXMAC disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
6. Always wear ANSI Z87.1 approved safety glasses or face shield while using this wood lathe. (Everyday eyeglasses only have impact resistant lenses; they are *not* safety glasses.)
7. Make certain the machine is properly grounded.
8. Before operating the machine, remove tie, rings, watches, other jewelry, and roll sleeves up past the elbows. Remove all loose clothing and confine long hair. Do **not** wear gloves.
9. Keep the floor around the machine clean and free of scrap material, oil and grease.
10. Keep machine guards in place at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately.
11. Do **not** over reach. Maintain a balanced stance at all times, so that you do not fall or lean against rotating parts.
12. Make all machine adjustments or maintenance with the machine unplugged from the power source.
13. Use the right tool. Do not force a tool or attachment to do a job that it was not designed to do.
14. Make certain the switch is in the **OFF** position before connecting the machine to the power supply.
15. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
16. Keep visitors a safe distance from the work area. Keep children away.
17. Make your workshop child proof with padlocks, master switches or by removing starter keys.
18. Maintain a balanced stance at all times so that you do not fall onto moving parts. Do not overreach or use excessive force to perform any machine operation.
19. Use recommended accessories; improper accessories may be hazardous.
20. Do not operate this lathe while under the influence of drugs, alcohol or any medication.
21. Keep tools sharp and clean for safe and best performance. Dull tools can grab in the workpiece and be jerked from the operator's hands, causing serious injury.
22. Check the condition of the stock to be turned. Make sure it is free of knots, warpage, checked ends, improperly made or cured glue joints and other conditions which can cause it to be thrown out of the lathe.
23. Securely fasten spur and live centers to the material being used.
24. Check centers and tapers in the headstock and tailstock to be sure they are free of dirt or rust, and oil lightly before inserting centers.
25. Test each set-up by revolving the workpiece by hand to ensure it clears the tool rest and bed. Check the setup at the lowest speed before increasing to operating speed.
26. Use the correct cutting tool for the operation to be performed and keep all tools sharp.
27. Use low speeds for roughing and for long or large diameter work. If vibration occurs, stop the machine and correct the cause.
28. When sanding, remove the tool rest from the machine, apply light pressure and use a slow speed to avoid heat buildup.
29. When turning large diameter pieces, such as bowls, always operate the lathe at low speeds. See speed.
30. Do not attempt to engage the spindle lock pin until the spindle has stopped. If leaving the machine area, turn lathe off and wait until the spindle stops rotating before departing.
31. Make no adjustments except speed changes with the spindle rotating, and always disconnect the machine from the power source when performing maintenance to avoid accidental starting or electrical shock.

32. Provide for adequate space surrounding work area and non-glare, overhead lighting.
33. When stopping the lathe, never grab the workpiece or faceplate to slow it down. Let the work coast to a stop.
34. Use only EXMAC authorized replacement parts and accessories; otherwise, the warranty and guarantee are null and void.
35. Use proper extension cord. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The smaller the gage number, the heavier the cord.

Familiarize yourself with the following safety notices used in this manual:

⚠CAUTION This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.

⚠WARNING This means that if precautions are not heeded, it may result in serious, or possibly even fatal, injury.

SAVE THESE INSTRUCTIONS

About this manual

This manual is provided by EXMAC, covering the safe operation and maintenance procedures for a Model AB-BS15-U Wood Bandsaw. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. Your machine has been designed and constructed to provide consistent, long-term operation if used in accordance with the instructions as set forth in this document.

This manual is not intended to be an exhaustive guide to lathe operational methods, use of after-market accessories, choice of stock, and such. Additional knowledge may be obtained from experienced users or trade articles. Whatever accepted methods are used, always make personal safety a priority.

If there are questions or comments, please contact your local supplier or EXMAC. EXMAC can also be reached at our web site: www.exmactools.com

Retain this manual for future reference. If the machine transfers ownership, the manual should accompany it.

⚠WARNING Read and understand the entire contents of this manual before attempting assembly or operation! Failure to comply may cause serious injury!

Specifications

Model number..... AB-BS15-U

Motor and electricals:

Motor type totally enclosed fan cooled, induction
Horsepower..... 3HP (2.2 kW)
Phase..... 3
Voltage..... 230 V
Cycle..... 60Hz
Listed FLA (full load amps) 9.5A
Power transfer V-belt
Drive..... electronic variable speed, inverter control
On/off switch..... PUSH BUTTON
Motor speed 1720 RPM
Power cord SJT 3x14AWG (300V)
Power cord length..... 6 ft. (183cm)
Power plug installed..... N/A
Power input requirements **single phase, 230V only**
Recommended circuit size¹..... 15A
Noise emission without load ² 78 dB at 20 inches from motor

Capacities:

Max Width of Cut 15 in. (380 mm)
Max Depth of Cut..... 14 in. (360 mm)
Max Width of Cut with Fence 12 in. (310 mm)
Table Size 15.7 X 21.5 in. (400 X540mm)
Table Tilt -5~45 degree
Table Height..... 37.8 in. (960 mm)
Dust Extraction Outlet..... 2.4 & 4 in. (63 & 100 mm)
Base Size..... 17.7 x 25.2 in. (450 X640 mm)

Materials:

Body..... Steel
Cover Steel
Headstock spindle steel
Wheel..... cast iron
Rail..... Aluminum
Fence..... Aluminum

¹ subject to local/national electrical codes

² The specified values are emission levels and are not necessarily to be seen as safe operating levels. As workplace conditions vary, this information is intended to allow the user to make a better estimation of the hazards and risks involved only.

Weights:

Net weight (approx.) 270 lbs
Shipping weight (approx.) 330 lbs

The specifications in this manual were current at time of publication, but because of our policy of continuous improvement, EXMAC reserves the right to change specifications at any time and without prior notice, without incurring obligation

⚠ WARNING

The Lathe must be disconnected from power during assembly.

Discription

- A. Main saw frame
- B. Blade tension pointer window
- C. Upper blade guide adjusting wheel
- D. Table
- E. Foot Break
- F. BLADE
- G. Upper blade guide adjusting lock knob
- H. Tension ajd. wheel
- I. Upper wheel ajd. knob
- J. quick tension handle
- K. motor
- L. switch
- M. fence system

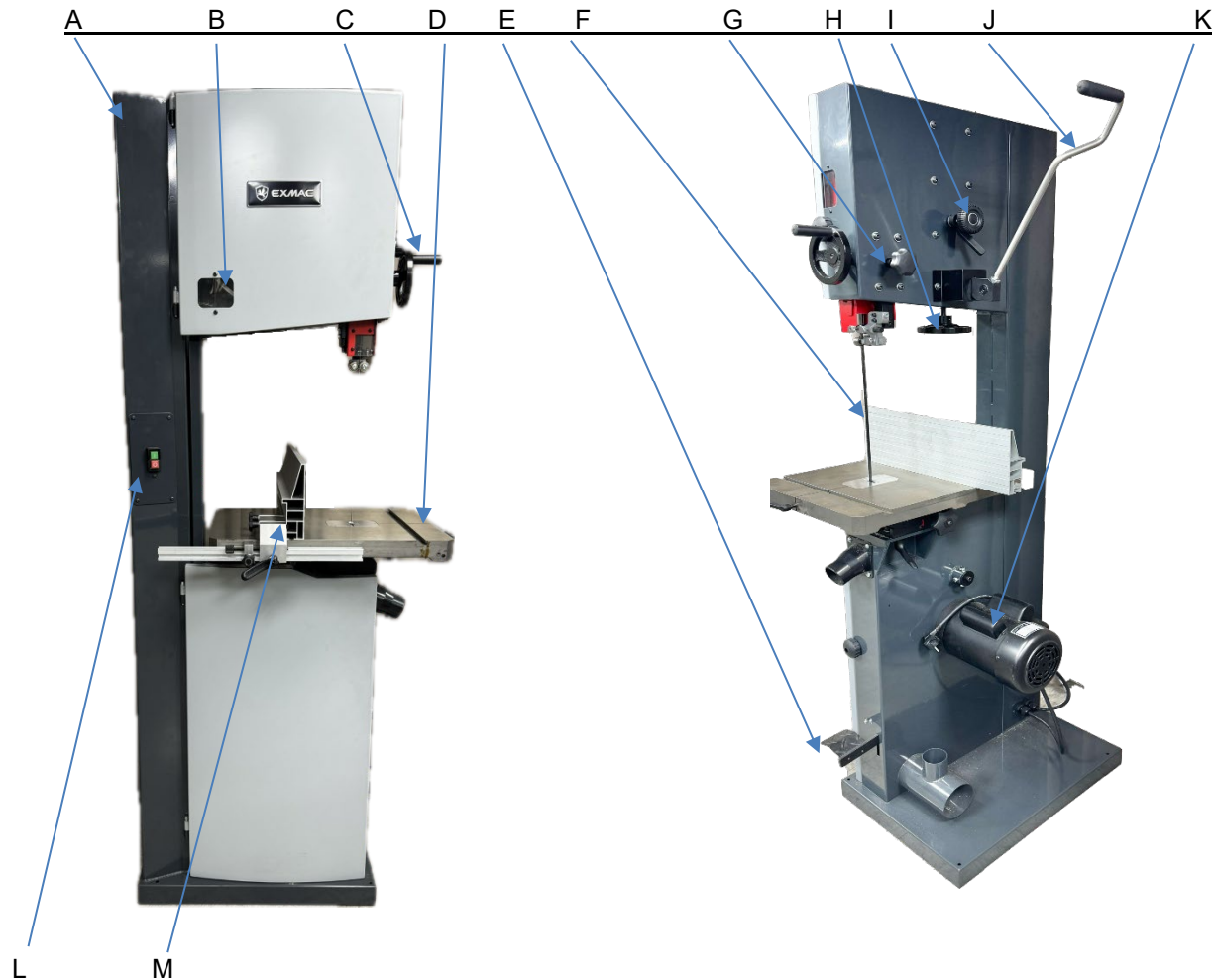


Figure 5-1: DISCRIPTION

Unpacking and cleanup

1. Remove all smaller items from main carton. Do not discard carton or packing material until BANDSAW is assembled and running satisfactorily.
2. Inspect contents for shipping damage; if any is found, report it to your distributor.
3. Compare contents of shipping carton with the contents list in this manual. Report shortages, if any, to your distributor. **Note:** Check Bandsaw first – some parts may have been pre-installed.

4. Exposed metal areas of the Bandsaw, such as bed Table, have been factory coated with a protectant. This should be removed with a soft cloth and a cleaner-degreaser. Do not use an abrasive pad, and do not allow solvents to contact painted or plastic areas.

Electrical connections

⚠WARNING Electrical connections must be made by a qualified electrician in compliance with all relevant codes. This machine must be properly grounded to help prevent electrical shock and possible fatal injury.

The Bandsaw comes without a plug

Before connecting to power source, be sure switch is in *off* position.

It is recommended that the lathe be connected to a dedicated 15 amp circuit with a circuit breaker or fuse. If connected to a circuit protected by fuses, use time delay fuse marked "D". **Local codes take precedence over recommendations.**

GROUNDING INSTRUCTIONS

This tool must be grounded. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

⚠WARNING Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the tool – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

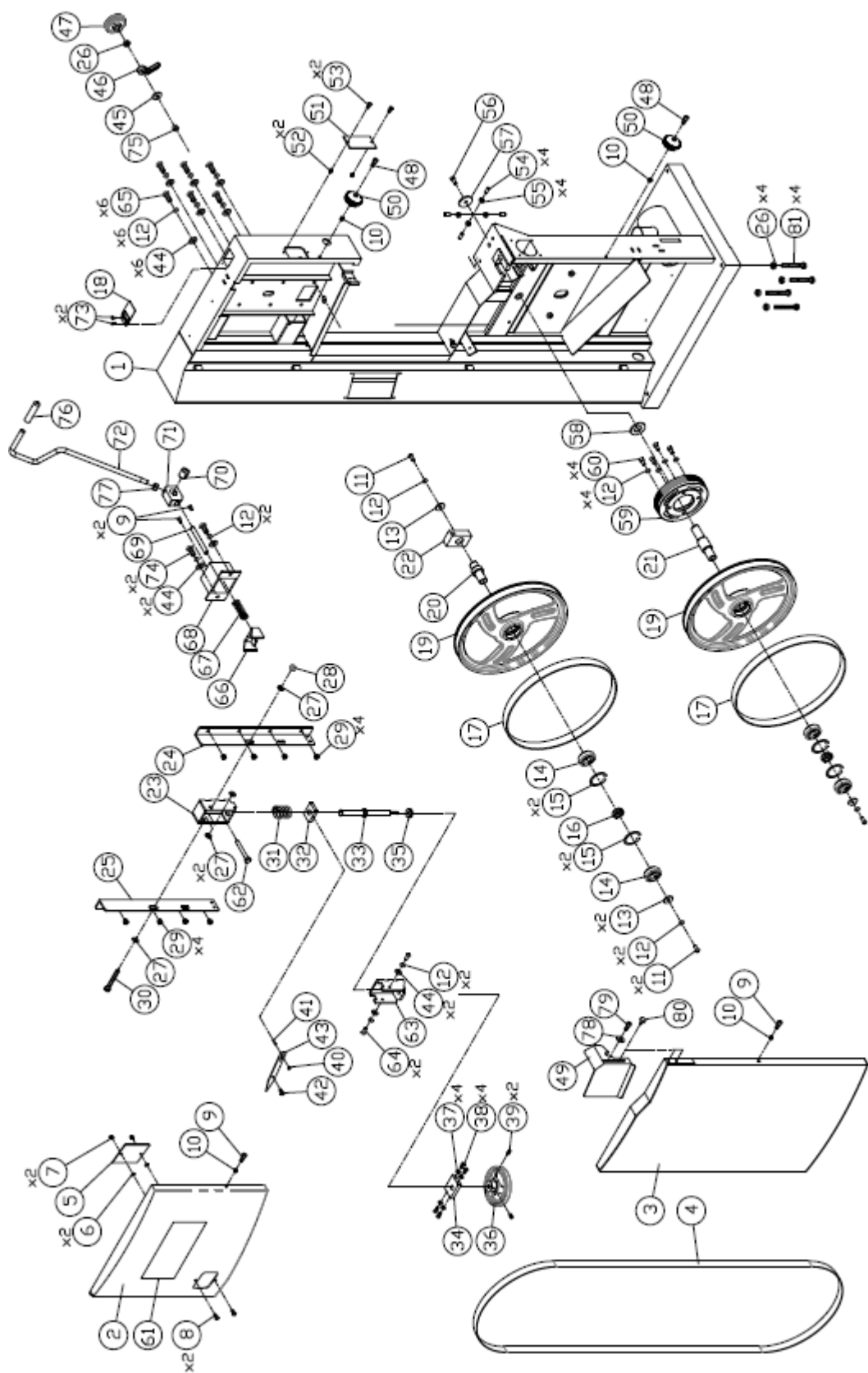
Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.

Repair or replace damaged or worn cord immediately.

⚠CAUTION A lightning strike or power surge may cause inverter failure. When lathe is not in use, disconnect power plug, or have a 3- or 4-pole disconnect installed on the power side.

For most turning operations, except outboard turning, the headstock is positioned at the left end of bed, and the tailstock moved to accommodate the workpiece.

A- Exploded View



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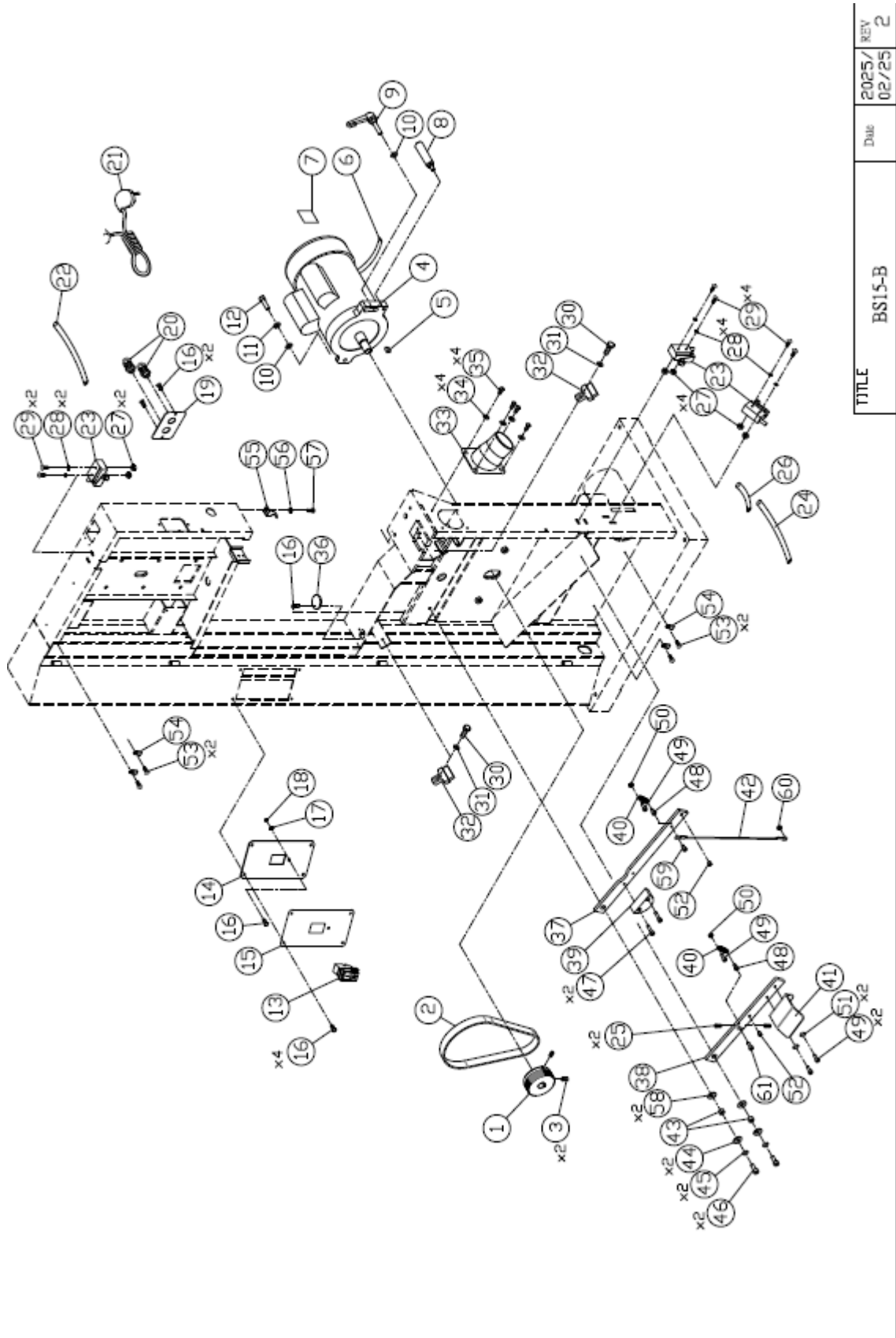
A – Parts List

PART NO.	DESCRIPTION	SPECIFICATION	Q' ty
A01	Machine Main Body		1
A02	Upper Door		1
A03	Lower Door		1
A04	Blade		1
A05	Acrylic Plate		1
A06	Washer	M5	2
A07	Nylon Nut	M5	2
A08	Button Haed Screw	M5x16	2
A09	Cap Screw	M6x10	4
A10	Nylon Nut	M6	4
A11	Button Haed Screw		3
A12	Spring Washer	M8	17
A13	Washer	M8	3
A14	Bearing	6205	4
A15	Retaining Ring	R-52	4
A16	Spacer		2
A17	Rubber Ring		2
A18	Cover		1
A19	Lower Saw Wheel		2
A20	Top Wheel Shaft		1
A21	Down Wheel shaft		1
A22	Bracket		1
A23	Adj. Bracket-UP		1
A24	Fixed seat -Right		1
A25	Fixed seat -Left		1
A26	Nut	M10	5
A27	Washer	M12	4
A28	Nylon Nut	M12	1
A29	Nylon Nut	M8	8
A30	Hex screw	M12x90	1
A31	Spring		1
A32	Adjustment Plate		1
A33	Adjustment Screw Rod		1
A34	Fixed plate		1

A35	Thrust Bearing	51101	1
A36	Handwheel		1
A37	Spring Washer	M6	4
A38	Button Haed Screw	M6x10	4
A39	Set screw	1/4" -20UNCx3/8"	2
A40	Nut	M4	1
A41	Set screw	M6*15	1
A42	Shoulder screw	M4x5	1
A43	Tension Pointer		1
A44	Washer	M8-D16x2T	10
A45	Washer	M10-D30x3T	1
A46	Lock handle	M10	1
A47	Knob	M10	1
A48	Cap Screw	M6x25	2
A49	Lower Blade Guard		1
A50	Handle		2
A51	Acrylic Plate		1
A52	Nylon Nut	M4	2
A53	Button Haed Screw	M4x12	2
A54	Set screw	M8x20	4
A55	Nut	M8	4
A56	Cap Screw	M8x20	1
A57	Washer		1
A58	Spacer		1
A59	Wheel Pulley		1
A60	Cap Screw	M8x16	4
A61	Logo Label		1
A62	Hex screw	M10x60	1
A63	Adj. Breaket-DOWN		1
A64	Button Haed Screw	M8x15	2
A65	Button Haed Screw	M8x25	6
A66	Inclined seat		1
A67	Spring		1
A68	Adjustment seat		1
A69	Shaft		1
A70	Adjustment shaft		1
A71	Pressed block		1
A72	Handle bar		1
A73	Button Haed Screw	M3x5	2

A74	Button Haed Screw	M8x30	2
A75	Spacer		1
A76	Glove		1
A77	Nut	M12	1
A78	Washer	M6	1
A79	Cap Screw	M6x16	1
A80	Embossed screws	M6x12	1
A81	Hex screw	M10x60	4

B- Exploded View

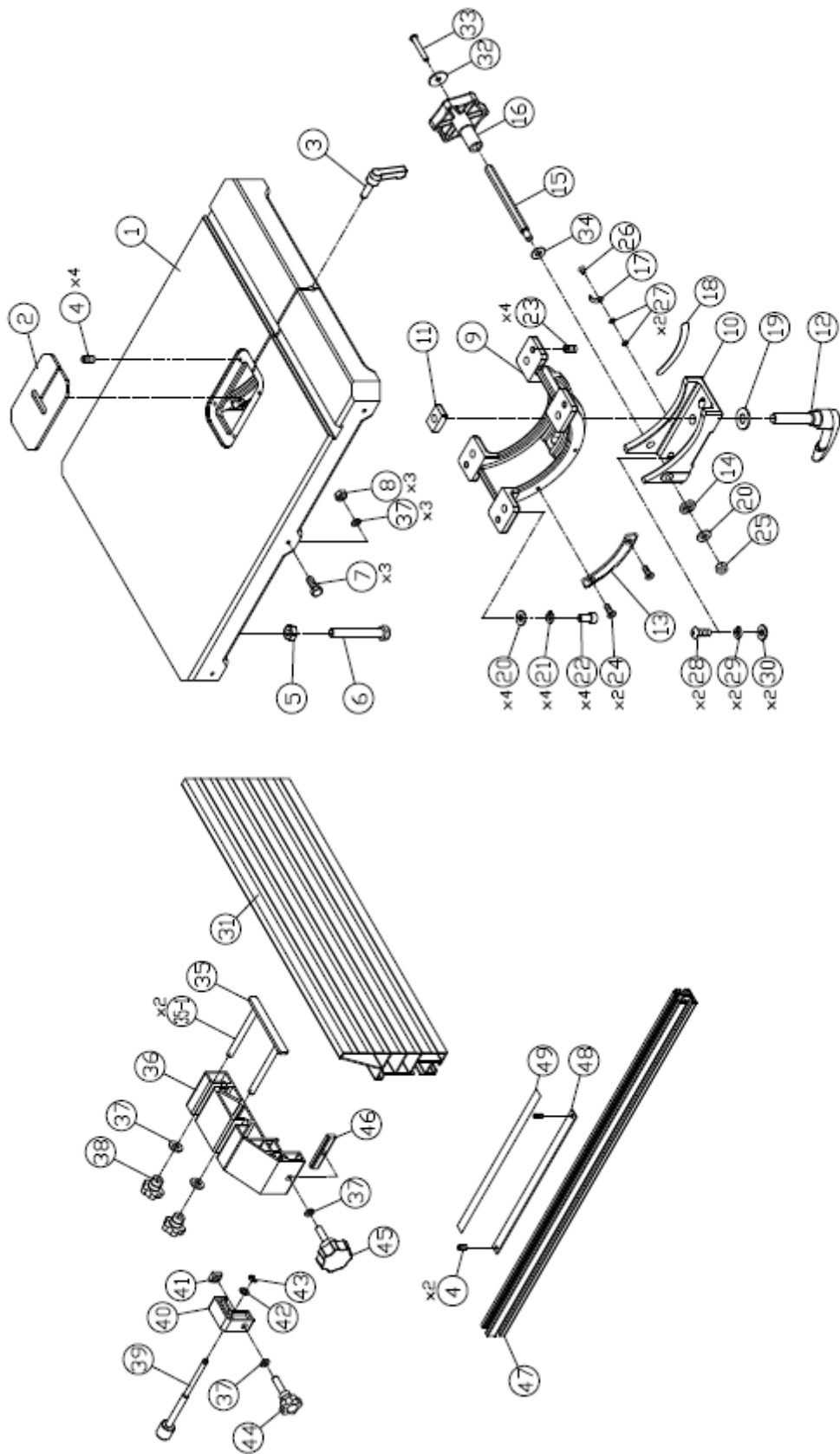


B– Parts List

PART NO.	DESCRIPTION	SPECIFICATION	Q' ty
B01	Motor Pulley		1
B02	belt		1
B03	Set screw	M6*10	2
B04	Motor		1
B05	Key	6x6x30	1
B06	Motor Wire		1
B07	Motor Label		1
B08	Handle	3/8"	1
B09	Lock Handle	3/8" x40	1
B10	Washer	3/8" -D18x2T	2
B11	Spring Washer	3/8"	1
B12	Cap Screw	3/8" -16UNCx1-1/4"	1
B13	ON/OFF Switch		1
B14	Control Plate		1
B15	Control Label		1
B16	Button Haed Screw	M5x10	8
B17	External Tooth Washer	M5	1
B18	Nut	M5	1
B19	Strain Relief Fixed Plate		1
B20	Wire clamp		2
B21	Power Wire		1
B22	Limit Switch Cord		1
B23	Limit Switch		3
B24	Limit Switch Cord- Lower Door		1
B25	Set screw	M5x20	2
B26	Limit Switch Cord		1
B27	Nylon Nut	M4	6
B28	Washer	M4-D10x1T	6
B29	Pan screw	M4x30	6
B30	Washer	M5-D10x1T	2
B31	Hex screw	M5x16	2
B32	Brush		2
B33	Dust Collect		1
B34	Washer		4
B35	Big Pan screw	M5x8	4
B36	Angle Plate		1
B37	Brake Lever		1

B38	Foot Brake Lever		1
B39	Brake		1
B40	Spring		2
B41	Foot Brake Pedal		1
B42	Wire Rope		1
B43	Spacer		2
B44	Washer	M8-D23x2T	2
B45	Spring Washer	M8	2
B46	Cap Screw	M8x20	2
B47	Cap Screw	M6x25	2
B48	Cap Screw	M6x10	2
B49	Cap Screw	M6x16	4
B50	Nut	M6	2
B51	Spring Washer	M6	2
B52	Nylon Set Screw	M8*10	2
B53	Big Pan screw	M4x6	4
B54	Wire Fixed Clamp		4
B55	Pointer		1
B56	Spring Washer	M5	1
B57	Button Haed Screw	M5x6	1
B58	Washer	M8	2
B59	Cap Screw	M5x10	1
B60	Nut	M5	1
B61	Cap Screw	M5x20	1

C- Exploded View



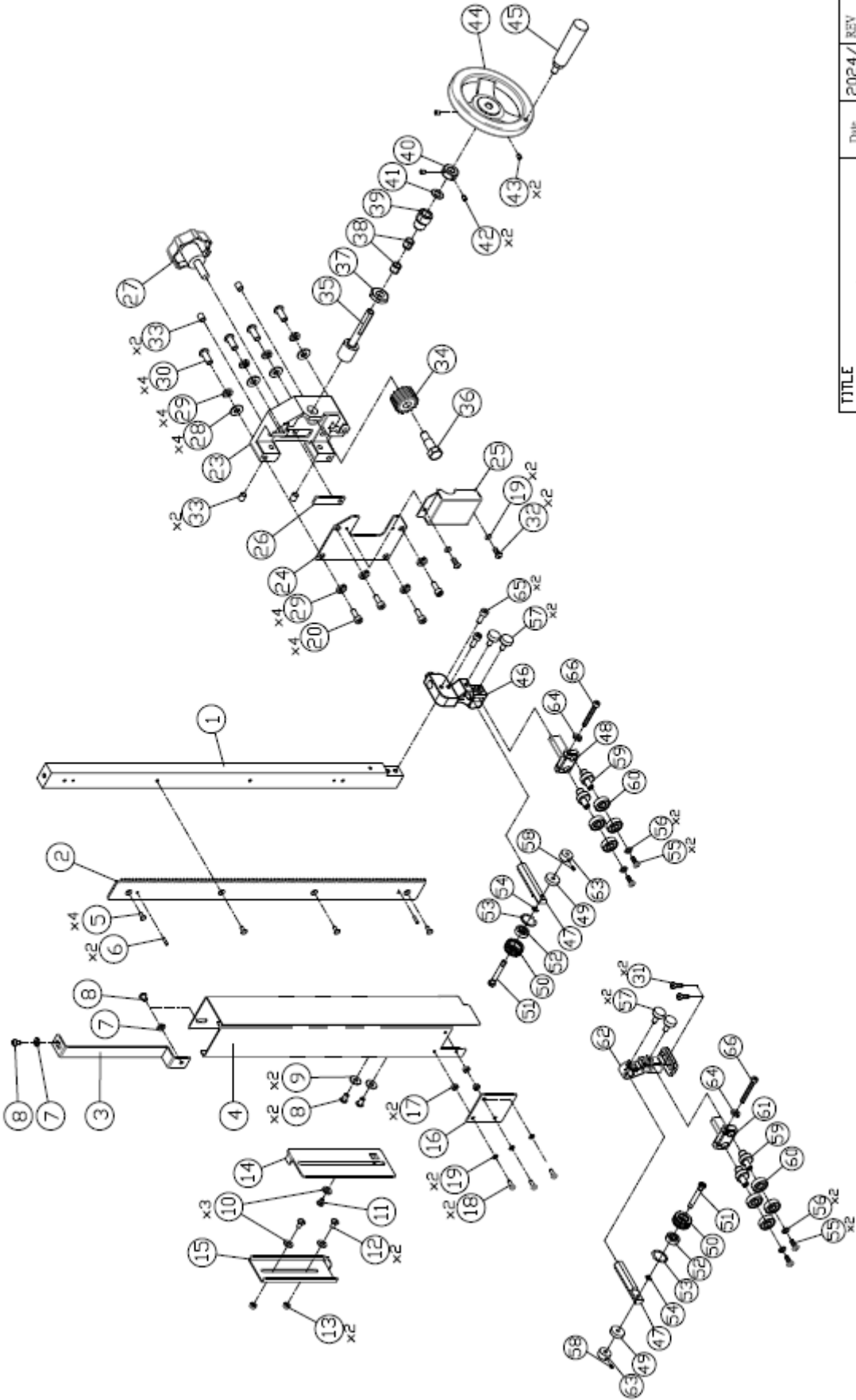
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C– Part List

PART NO.	DESCRIPTION	SPECIFICATION	Q' ty
C01	Table		1
C02	Plate		1
C03	Table pin		1
C04	Set screw	M6*6	6
C05	Nut	M10	1
C06	Hex screw		1
C07	Hex Screw	M8x25	3
C08	Nut	M8	3
C09	Rotating stand		1
C10	Swivel base		1
C11	Square Nut		1
C12	Handle	M12*60	1
C13	Gear Rack		1
C14	Gear Washer		1
C15	Adjustment Knob Bolt		1
C16	Knob		1
C17	Angle Pointer		1
C18	Angle Label		1
C19	Washer	M12-D28x2T	1
C20	Washer	M8-D18x2T	5
C21	Spring Washer	M8	4
C22	Cap Screw	M8x20	4
C23	Set screw	M8*10	4
C24	Flat head cap screw	M4x10	2
C25	Nylon Nut	M8	1
C26	Pan screw	M4x6	1
C27	Washer	M4xD8x1T	2
C28	Button Haed Screw	M10x25	2
C29	Spring Washer	M10	2
C30	Washer	M10	2
C31	Fence		1
C32	Washer	M6	1
C33	Button Haed Screw	M6x40	1
C34	Washer	M12	1
C35	Clamp plate		1
C35-1	Set Screw	M8x90	2

C36	Fence block		1
C37	Washer	M8	7
C38	Handle		2
C39	Adj. Rod		1
C40	Adj. Block		1
C41	Nut	M8	1
C42	Washer	M6	1
C43	E-Ring	ETW-5	1
C44	Handle		1
C45	Handle	M8	1
C46	T type Nut		1
C47	Aluminum bar		1
C48	Scale Plate		1
C49	Scale Lable		1

D- Exploded View



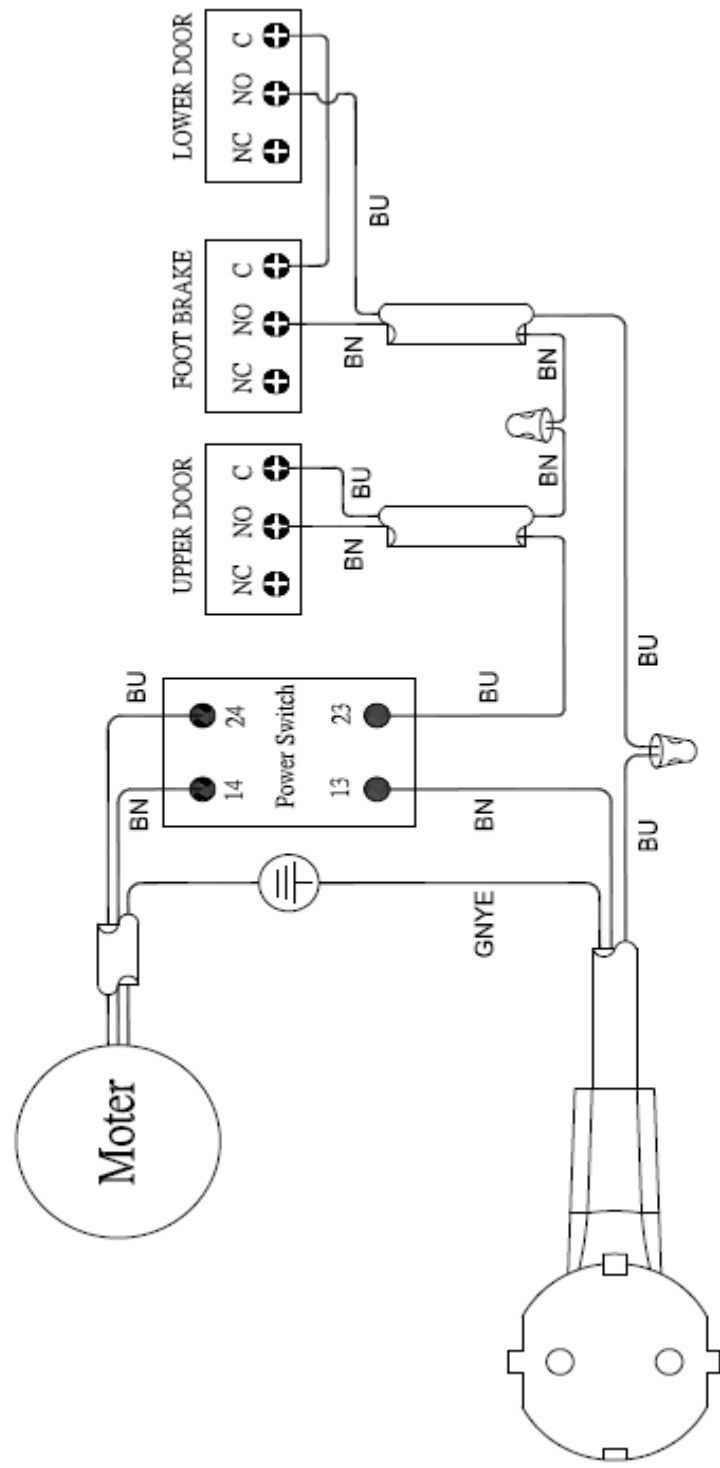
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D– Part List

PART NO.	DESCRIPTION	SPECIFICATION	Q' ty
D01	Guide Bar		1
D02	Guide Bar Rack		1
D03	Support Plate		1
D04	Blade Guard Cover		1
D05	Flat head cap screw	M4x10	4
D06	Spring pin	ψ3*6	2
D07	Spring Washer	M6	2
D08	Button Haed Screw	M6x12	4
D09	Washer	M6	2
D10	Nylon Washers	M6	3
D11	Shoulder screw	M4x5	1
D12	Big Pan screw	M5x10	2
D13	Nylon Nut	M5	2
D14	Sliding Plate		1
D15	Protect Cover		1
D16	Acrylic Plate		1
D17	Nylon Nut	M4	2
D18	Button Haed Screw	M4x12	2
D19	Spring Washer	M4	4
D20	Cap Screw	M8x16	4
D23	Guide Bracket		1
D24	Cover		1
D25	Upper Cover		1
D26	Fixed Plate		1
D27	Lock Knob	M10x30	1
D28	Washer	M8-D18x2T	4
D29	Spring Washer	M8	8
D30	Button Haed Screw	8x20	4
D31	Cap Screw	M6x16	2
D32	Button Haed Screw	M4x6	2
D33	Nylon Set screw	M8*10	4
D34	Worm Shaft		1
D35	Gear		1
D36	Fixed Pin		1
D37	Nut	M16xP2	1
D38	Self-Lubricating	DU10x12	2

D39	Bushing		1
D40	Collar		1
D41	Washer	M10	1
D42	Set screw	M5*6	2
D43	Set screw	1/4" -20UNCx3/8"	2
D44	Handwheel		1
D45	Handle		1
D46	Blade base up		1
D47	Hexabonal rod		2
D48	Bracket		1
D49	Knurled nut	M6	2
D50	Bearing sleeve		2
D51	Adjust Screw		2
D52	Bearing	626ZZ	2
D53	Retaining Rings	C-19	2
D54	E-Type Circlip	ETW-5	2
D55	Big Round Head Screw	M6x8	4
D56	Washer	M6	4
D57	Embossed screws	M6x12	4
D58	Set Screw	3x5	2
D59	Eccentric Shaft		4
D60	Bearing	608zz	8
D61	Bracket-Short		1
D62	Blade Base Down		1
D63	Knurled nut-Small	M6	2
D64	Spring Washer	M5	2
D65	Cap Screw	M6x25	2
D66	Cap Screw	M5x40	2

Electrical Connections



MODEL NAME 機型	BS15	Date 日期	2025/02/24	REVISION 2
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Warranty and Service

EXMAC warrants every product it sells against manufacturers' defects. If one of our tools needs service or repair, please contact EXMAC

Warranty Period

The general warranty lasts for the time period specified in the literature included with your product or on the official EXMAC branded website.

- EXMAC products carry a limited warranty which varies in duration based upon the product. (See chart below)
- Accessories carry a limited warranty of one year from the date of receipt.
- Consumable items are defined as expendable parts or accessories expected to become inoperable within a reasonable amount of use and are covered by a 90 day limited warranty against manufacturer's defects.

Who is Covered

This warranty covers only the initial purchaser of the product from the date of delivery.

What is Covered

This warranty covers any defects in workmanship or materials subject to the limitations stated below. This warranty does not cover failures due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair, alterations or lack of maintenance. EXMAC woodworking machinery is designed to be used with Wood. Use of these machines in the processing of metal, plastics, or other materials may void the warranty. The exceptions are acrylics and other natural items that are made specifically for wood turning.

Warranty Limitations

Woodworking products with a Five Year Warranty that are used for commercial or industrial purposes default to a Two Year Warranty.

How State Law Applies

This warranty gives you specific legal rights, subject to applicable state law.

Limitations on This Warranty

EXMAC LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. EXMAC SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.