



EXMAC

Operating Instructions and Parts Manual Wood BandSaw

Model : BS11EV



EXMAC

www.exmactools.com

VER.1



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

This manual is provided by EXMAC, covering the safe operation and maintenance procedures for a Model AB-BS11EV-U-1 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-BS11EV-U-1
Stock number

Motor and electricals:

Motor type..... totally enclosed fan cooled, induction
Horsepower 1HP (0.75 kW)
Phase 3
Voltage 230 V
Cycle..... 60Hz
Listed FLA (full load amps) 3A
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, 120V only**
Recommended circuit size¹ 15A
Noise emission without load ² 78 dB at 20 inches from motor

Capacities:

Max Width of Cut 10 in. (250 mm)
Max Depth of Cut..... 6.2 in. (160 mm)
Max Width of Cut with Fence 8.66 in. (220 mm)
Table Size..... 13.7 X 13.7 in. (350 X350mm)
Table Tilt..... -5~45 degree
Table Height 16 in. (340 mm)
Dust Extraction Outlet..... 2.48 in. (63 mm)
Base Size 17.9 x 11 in. (455 X280 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.) 132 lbs
Shipping weight (approx.) 160.6 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. AJD. NUT
- B. ON/OFF
- C. SPEED CONTROL KNOB
- E. FENCE
- F. BLADE AJD. NUT
- G. DOOR LOCK
- H. TABLE

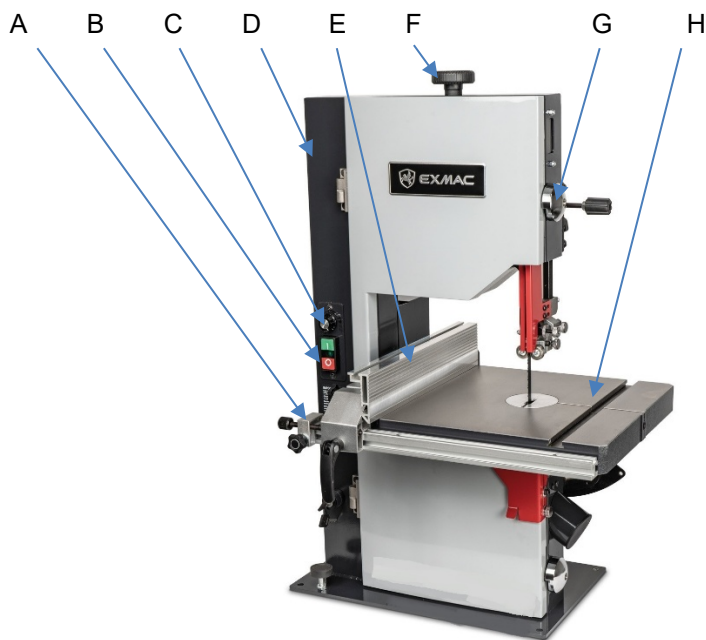


Figure 5-1: DISCRPTION

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 AB-BS11EV-U-1 Bandsaw requires 120-volt single-phase input. It is equipped with a power inverter, located between the power cord and the drive motor. The inverter takes the 120V 1-phase input from the power cord and converts it to the 230V 3-phase output required by the drive motor.

The Bandsaw comes with 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.

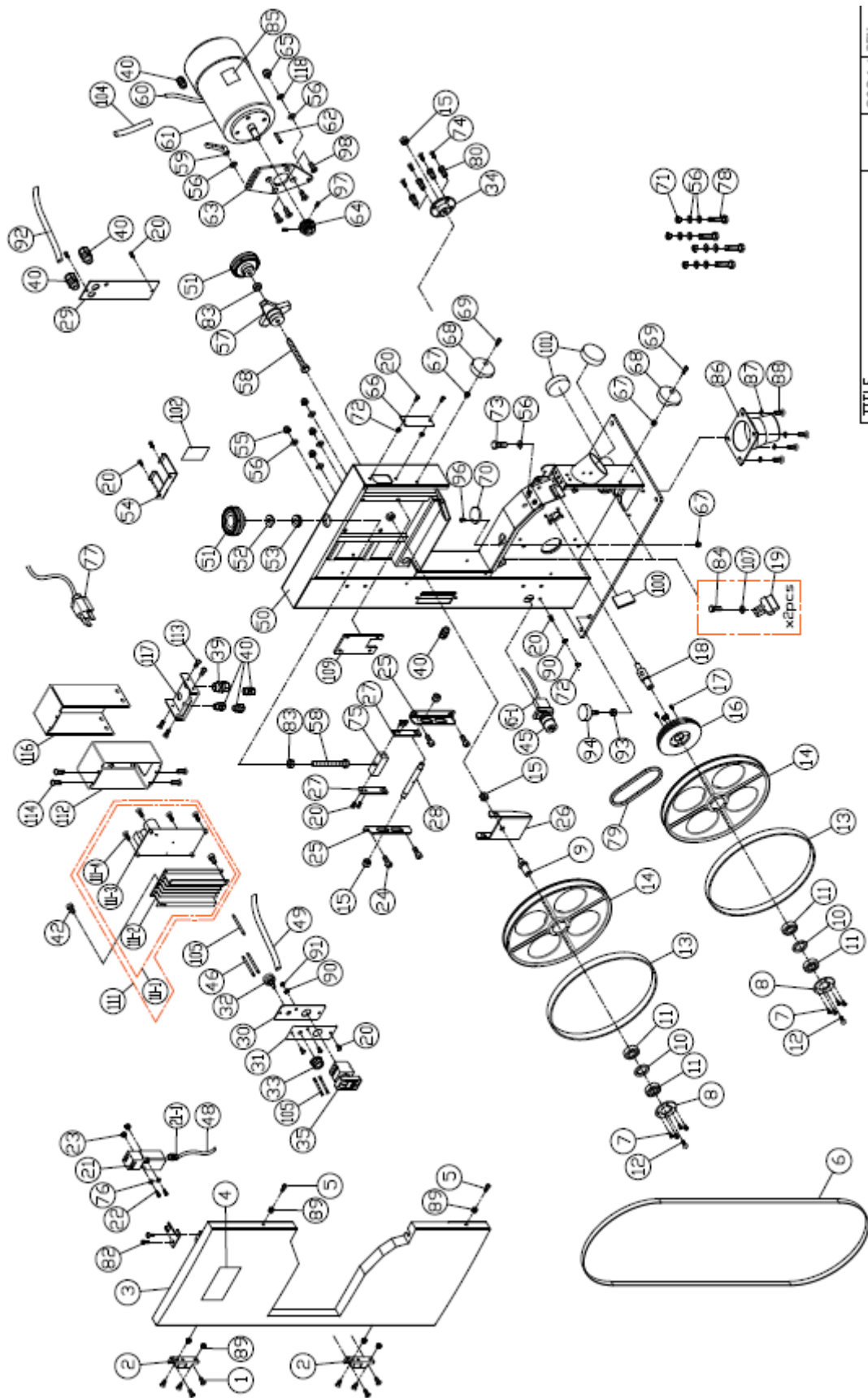
Repair or replace damaged or worn cord immediately.

IMPORTANT: The AB-BS11EV-U-1 Lathe cannot be run on a GFCI circuit.

⚠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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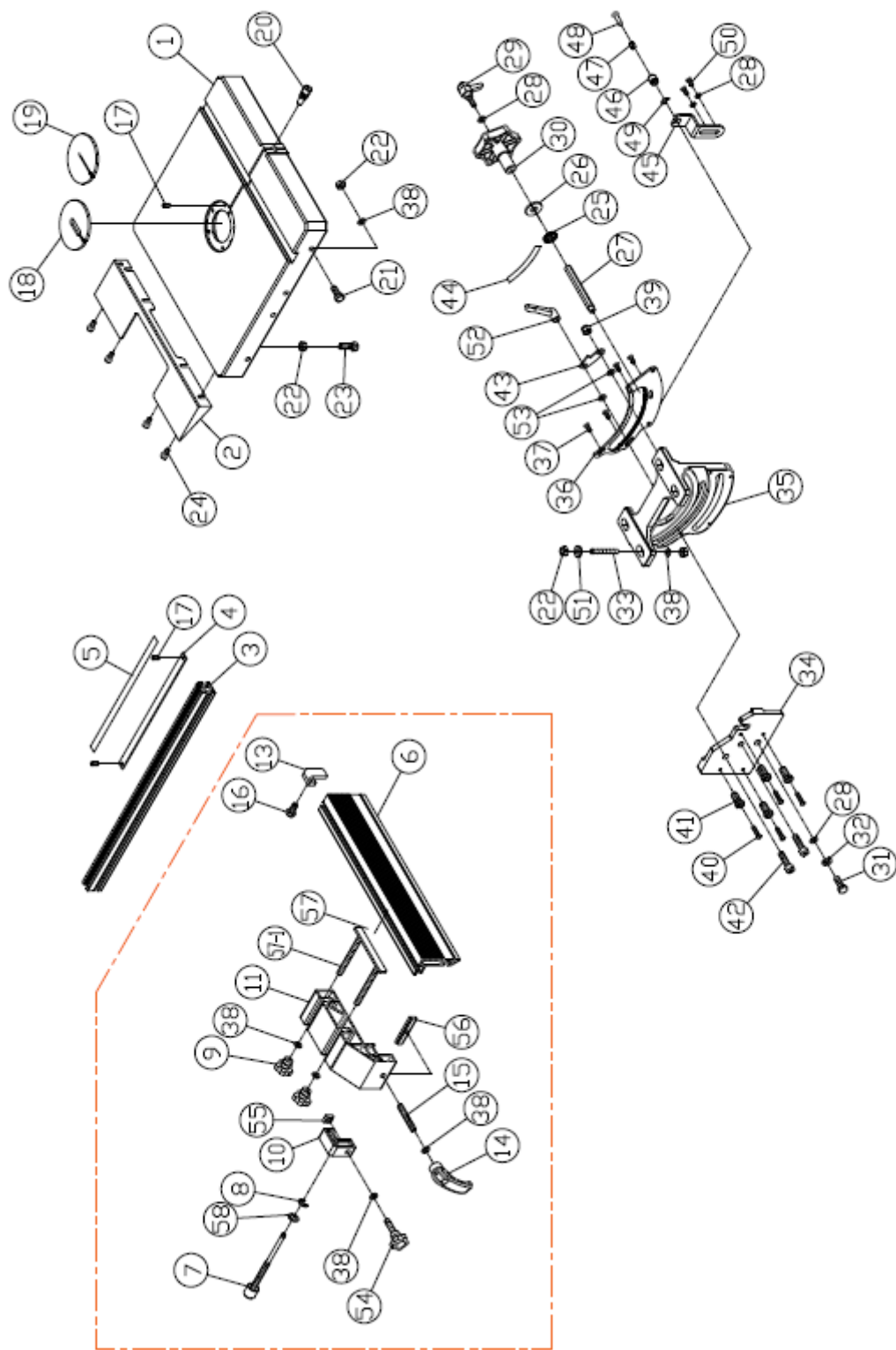
A – Parts List

PART NO.	DESCRIPTION	SPECIFICATION	Q' ty
A01	Flat Head Screw	M6x16	8
A02	Hange		2
A03	Door		1
A04	Name Plate		1
A05	Cap Screw	M6x10	2
A06	Blade	0. 5x12. 5Wx6Tx1858	1
A07	Round Head Screw	M4x10	8
A08	Block Plate		2
A09	Top Wheel Shaft		1
A10	Bush		2
A11	Bearing	6202ZZ	4
A12	Big Round Head Screw	M8x10	2
A13	Rubber Ring		2
A14	Saw Wheel		2
A15	Nylon Nut	M10	4
A16	Wheel Pulley		1
A17	Round Head Cap Screw	M4x27	4
A18	Down shaft		1
A19	Brush		2
A20	Round Head Cap Screw	M5x10	14
A21	Limited Switch		1
A21-1	Wire clamp		1
A22	Cap Screw	M4x27	2
A23	Round Head Nut	M4	2
A24	Cap Screw	M8x16	4
A25	Breaket		2
A26	Adj. Breaket		1
A27	Pull Plate		2
A28	Pull Rod		1
A29	Cover Plate		1
A30	Control Plate		1
A31	Label		1
A32	VR		1
A33	VR Nut		1
A34	Adj. Shaft Breaket		1

A35	ON/OFF Switch		1
A39	Wire clamp	PG-11	1
A40	Wire clamp	PG-9	7
A42	Cap Screw	M5x10	2
A45	Key Switch		1
A45-1	Switch connector		1
A46	VR Wire		2
A48	Signal Wire		1
A49	Control Wire		1
A50	Body		1
A51	Knob		2
A52	Bush		1
A53	Thrust Bearing		1
A54	Breaket		1
A55	Round Head Nut	M8	4
A56	Washer	M8	16
A57	Knob		1
A58	Hex Screw	M10x90	2
A59	Handle	M8	1
A60	Motor Wire		1
A61	Motor	3/4HP*50HZ*110V	1
A62	Key	4x4x25	1
A63	Motor Plate		1
A64	Motor Pully		1
A65	Nylon Nut	M8	1
A66	Acrylic Plate		1
A67	Nylon Nut	M5	3
A68	Handle		2
A69	Cap Screw	M5x25	2
A70	Angle Plate		1
A71	Nut	M8	4
A72	Round Head Nut	M5	3
A73	Hex Screw	M8x16	2
A74	Round Head Cap Screw	M6x35	4
A75	Pull block		1
A76	Washer	M4	2
A77	Power Wire		1
A78	Hex Screw	M8x50	4

A79	belt	170-J4	1
A80	Adj. Screw		4
A82	Cap Screw	M4x10	2
A83	Nut	M10	2
A84	Hex Screw	M5x16	2
A85	Motor Label		1
A86	Dust Collect		1
A87	Washer	M5	4
A88	Big Round Head Screw	M5x8	4
A89	Nylon Nut	M6	6
A90	Tooth Washer	M5	2
A91	Nut	M5	1
A92	Power Cord 2		1
A93	Nut	3/8"	1
A94	Stop Rod	3/8"	1
A96	Button Head Screw	M5x16	1
A97	Set Screw	1/4" x1/4"	2
A98	Flat Head Screw	1/4" x5/8"	4
A100	ABS plate		1
A101	Pipe Cover		2
A102	ID Lable		1
A104	Wire		1
A105	Switch Wire		3
A107	Washer	M5	2
A109	Fixed block		1
A111	IC Board set (BS11-EV)		1set
A111-1	IC Board set		
A111-2	Heat Sink		
A111-3	PC Board		
A111-4	Round Head Screw		
A112	Control Box		1
A113	Round Head Screw	M5x6	4
A114	Round Head Screw	M3x10	4
A116	Control Box -UP		1
A117	Control Box -Under		1
A118	Spring Washer	M8	1

B – Exploded View



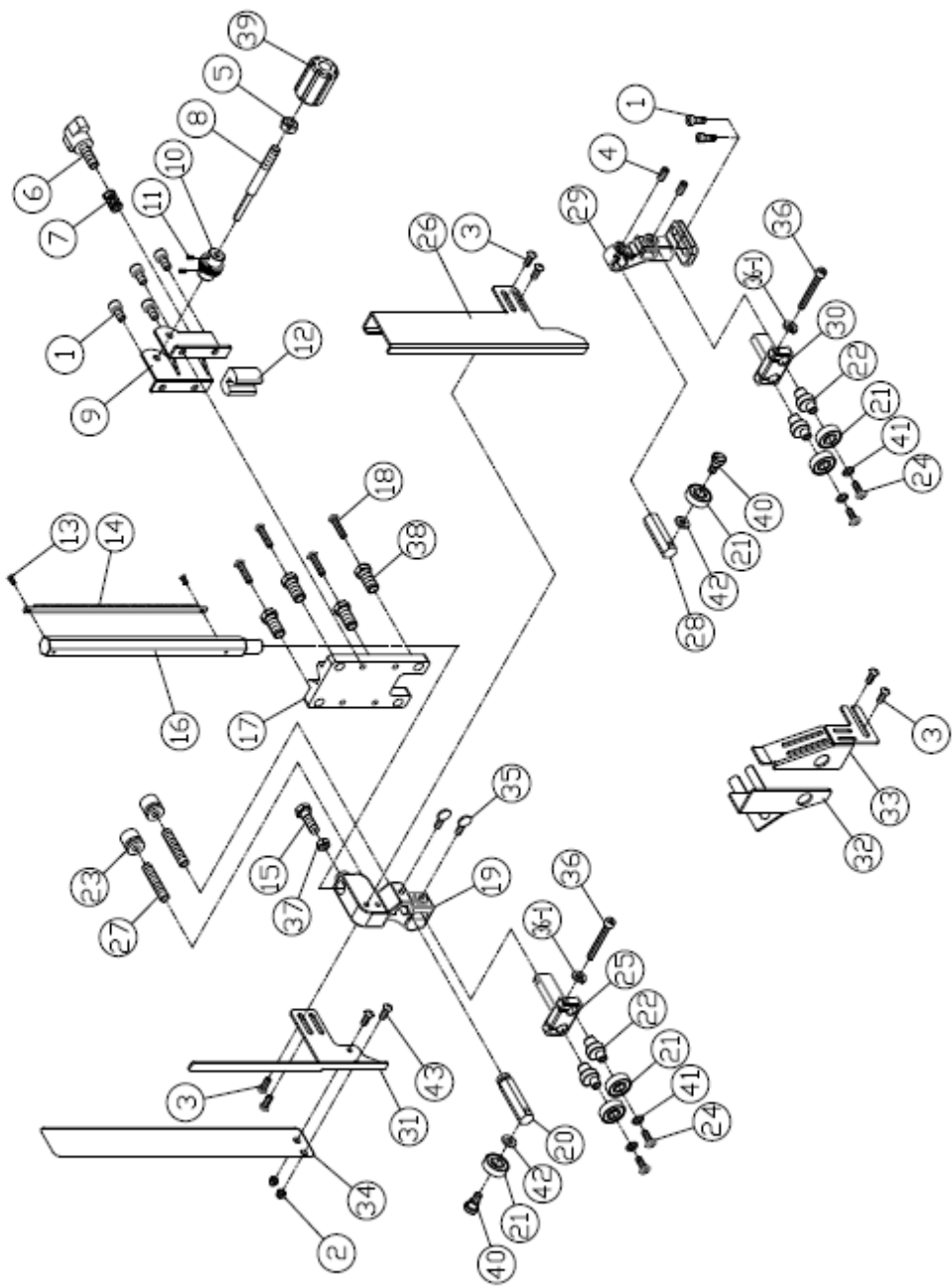
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B – Parts List

PART NO.	DESCRIPTION	SPECIFICATION	Q' ty
B01	Table		1
B02	Leader Plate		1
B03	Aluminum bar		1
B04	Scale Plate		1
B05	Scale Lable		1
B06	Fence		1
B07	Adj. Rod		1
B08	E-Ring	ETW-5	1
B09	Handle		2
B10	Adj. Block		1
B11	Fence block		1
B13	Stop Plate		1
B14	Pull Handle	M8	1
B15	SET Screw	M8x55	1
B16	Hex Screw	M8x16	1
B17	Set Screw	M6x6	8
B18	Plate		1
B19	Plate 2		1
B20	Table pin		1
B21	Hex Screw	M8x20	4
B22	Nut	M8	13
B23	Hex Screw	M8x25	1
B24	Cap Screw	M6x10	4
B25	Tooth Washer		1
B26	Washer		1
B27	Hexagonal Rod		1
B28	Washer	1/4"	4
B29	Handle	1/4" x20	1
B30	Handle		1
B31	Hex Screw	1/4" -20UNCx3/8"	1
B32	Spring Washer	M6	1
B33	Set Screw	M8x40	4
B34	Slide Plate		1
B35	Table Bracket		1
B36	Tooth plate		1

B37	Round Head Cap Screw	M5x10	4
B38	Washer	M8	12
B39	Nylon Nut	M8	1
B40	Round Head Cap Screw	M6x30	4
B41	Adj. Screw		4
B42	Cap Screw	M8x45	2
B43	Pointer		1
B44	Angle Label		1
B45	Base		1
B46	Bush		1
B47	Spring		1
B48	Rod		1
B49	E-Ring	ETW-3	1
B50	Button Head Screw	M6x20	2
B51	Washer	M8xD25	4
B52	Handle	M8	1
B53	Washer	M8	2
B54	Handle		1
B55	Nut		1
B56	T type Nut		1
B57	Clamp plate		1
B57-1	Set Screw	M8x90	2
B58	Washer	M6	1

C – Exploded View



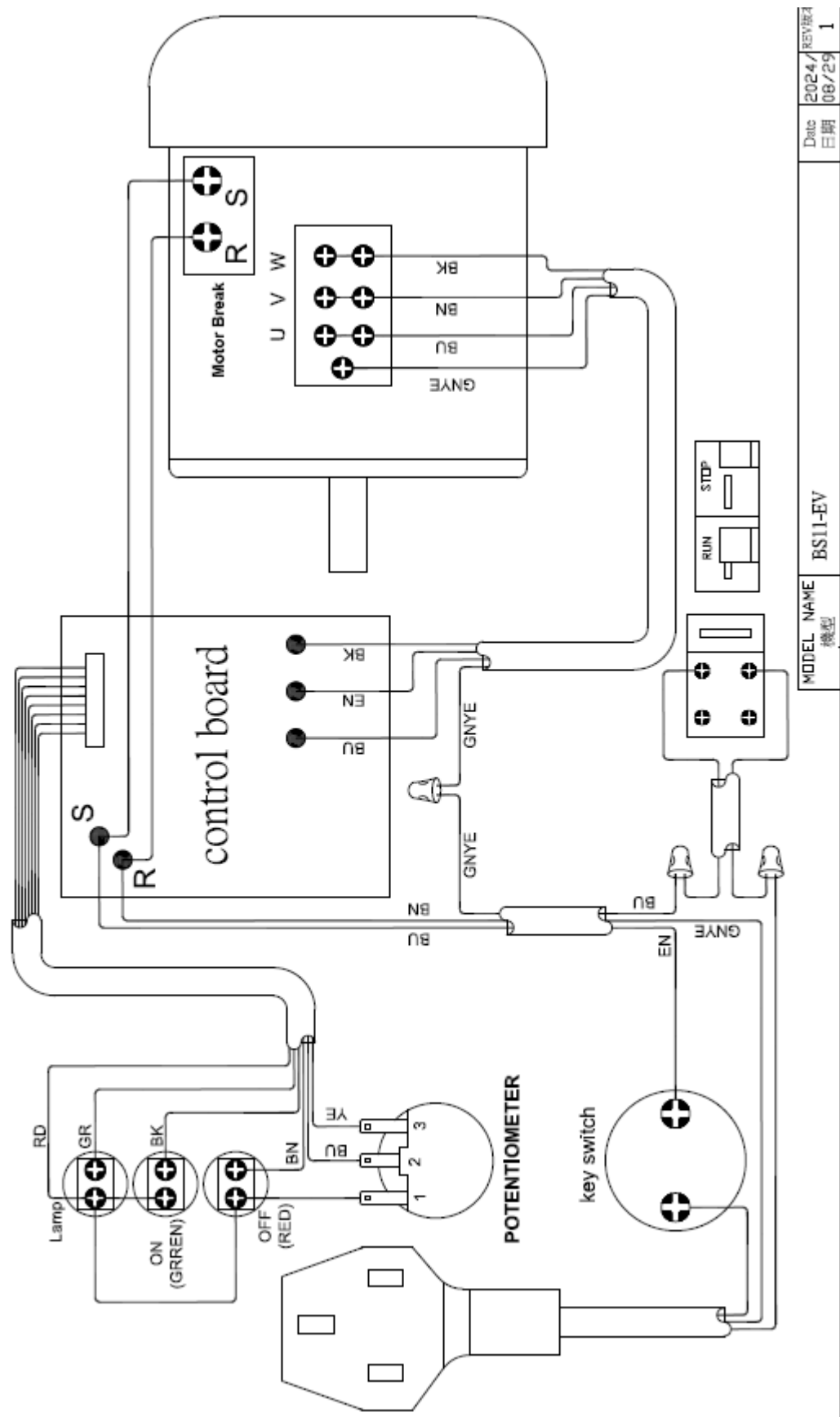
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C – Parts List

PART NO.	DESCRIPTION	SPECIFICATION	Q' ty
C01	Cap Screw	M6x10	6
C02	Round Head Nut	M5	2
C03	Round Head Cap Screw	M5x10	6
C04	Set Screw	M6x6	2
C05	Nut	M8	1
C06	Knob		1
C07	Spring		1
C08	Knob Rod		1
C09	Breaket		1
C10	Tooth Wheel		1
C11	Set Screw	M4x5	2
C12	Push Block		1
C13	Round Head Screw	M3x10	2
C14	Rack		1
C15	Hex Screw	M6x16	1
C16	Hexabonal rod		1
C17	Hexabonal Base		1
C18	Round Head Cap Screw	M6X35	4
C19	Blade base up		1
C20	Hexabonal rod		1
C21	Bearing	608zz	6
C22	Off Center rod		4
C23	Adj. Nut		2
C24	Big Round Head Screw	M6x8	4
C25	Bracket		1
C26	Cover Plate		1
C27	Set Screw	M8x40	2
C28	Hexagonal Rod-Short		1
C29	Blade Base Down		1
C30	Breaket-Short		1
C31	Cover-2		1
C32	Cover-3		1
C33	Cover-4		1
C34	Soft Plate		1
C35	Screw	M6x12	2
C36	Cap Screw	M5x40	2

C36-1	Spring Washer	M5	2
C37	Nut	M6	1
C38	Adj. Screw		4
C39	Handle		1
C40	Screw		2
C41	Washer	M6	4
C42	Washer	M6xD13x1.5t	2
C43	Round Head Cap Screw	M5x6	2

Electrical Connections



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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.

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.