Operations & Parts Manual

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PW120E

OSCILLATING EDGE SANDER

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Cantek America Inc. | 1.888.982.2683 | **Parts:** sales@cantekamerica.com | **Service:** service@cantekamerica.com

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SECTION 1: SAFETY

WARNING

For Your Own Safety Read Instruction Manual Before Operating This Equipment

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.

1. **DANGER** Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

2. **WARNING** Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

3. **CAUTION** Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

4. **NOTICE** This symbol is used to alert the user to useful information about proper operation of the equipment.

ADDITIONAL SAFETY RULES FOR THE OSCILLATING BELT EDGE SANDER

1. **DO NOT** allow anyone to stand near the sander while sanding wood stock; as throw out is a possibility always stands to one side of your machine.

2. **DO NOT** jam the work piece against the sanding belt. Firmly grasp the work piece in both hands and ease it against the sanding belt using light pressure.

3. **DO NOT** wear loose clothing while operating this machine. Roll up or button sleeves at the cuff.

4. **DO NOT** place hands near, or in contact with, sanding belt during operation.

5. **DO NOT** perform sanding operations until the dust collection system is started.

6. **DO NOT** open the guards while the machine is running.

7. **ANY PROBLEM**, with the exception of belt tracking, that is concerned at all with any moving accessories must be investigated and corrected with the power disconnected, and after everything has come to a complete stop.

8. **PERFORM** machine inspections and maintenance service promptly when called for.

9. **NEVER** leave the machine running unattended.

10. **REPLACE** sanding belt when it becomes worn.

11. **NEVER** sand more than one piece of stock at a time.

12. **ALWAYS** inspect board stock for nails, staples, knots, and other imperfections that could be dislodged and thrown from the machine during sanding operations.

CAUTION

- No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other machinery with caution and respect. Failure to follow guidelines could result in serious personal injury, damage to equipment or poor work results.
- Always wear a dust mask when operating the Model. Using this machine produces sawdust which may cause allergic reactions or respiratory problems.

SECTION 2: POWER SUPPLY REQUIREMENTS

Insufficient voltage from factory power source may affect the power output of the motor.
It is important to connect this machine to the correct voltage in the factory power source. Use only an independent power source.

The cord set for this model included does not have a plug, as the style of plug you require will depend upon the type of service you currently have or plan to install. If you operate the Model on any circuit that is already close to its capacity, it might blow a fuse or trip a circuit breaker. However, if an unusual load does not exist, and the circuit breaker still trips, have the circuit inspected by a qualified electrician.

Do not attempt to modify an existing circuit by replacing the circuit breaker with one rated for a higher amperage than the plug, outlet and wiring can handle. If you are unsure, seek the assistance of a qualified electrician.

Grounding

In the event of an electrical short, grounding provides electric current a path of least resistance to reduce the risk of electrical shock. This tool is equipped with an electric cord having an equipment-grounding conductor which must be properly connected to a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
Improper connections of the electrical-grounding conductor can result in the risk of electric shock. The conductor with green or green and yellow striped insulation is the electrical-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.

WARNING This equipment must be grounded. Verify that any existing electrical outlet and circuit you intend to plug into is actually grounded. Under no circumstances should the grounding pin from any three-pronged plug be removed. Serious injury may occur.

Extension Cords

We do not recommend the use of extension cords with 220V equipment. It is much better to arrange the placement of your equipment and the installed wiring to eliminate the need for extension cords. Should it be necessary to use an extension, make sure the cord is rated Hard Service (grade S) or better. Refer to the chart below; it determines the minimum gauge for the extension cord when using either 110V or 220V. The extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords when they become worn or damaged.

	LENGTH		
AMP RATING	**25ft**	**50ft**	**100ft**
0-6	18	16	16
7-10	18	16	14
11-12	16	16	14
13-16	14	12	12
17-20	12	12	10
21-30	10	10	No

CAUTION We have covered some basic electrical requirements for the safe operation of your machine. These requirements are not necessarily comprehensive. You must be sure that your particular electrical configuration complies with local and state codes. Ensure compliance by checking with your local municipality or a licensed electrician.

SECTION 3: INTRODUCTION

UNPACKING

The Oscillating Belt Edge Sander is shipped from the manufacturer in a carefully packed carton. If you discover the machine is damaged after you have signed for delivery, immediately call Customer Service for advice.

This Model has two lifting rings located on the top of the access door as shown in **Figure 1.**

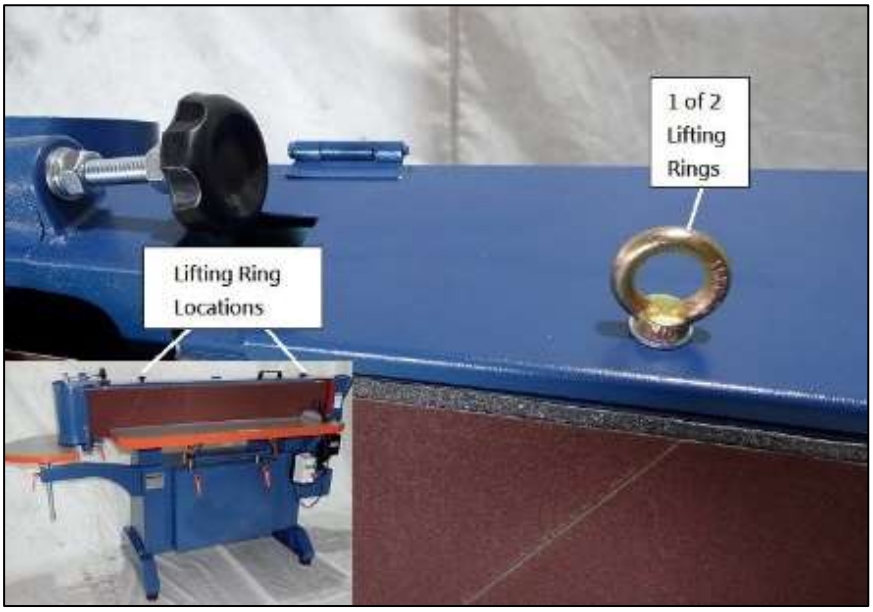

Figure 1. Lifting ring

When using a lifting apparatus to move the machine, always lift from both of these designated rings. Lifting at any other location, or from only one ring at a time, could cause the machine to become unbalanced and tip over. A forklift or a hydraulic hand pallet truck with sufficient loading capacity can also be used. Damage from improper moving methods may void the warranty.

WARNING Failure to lift and move the machine correctly could result in serious personal injury and/or damage to the machine.

When lowering the machine to the floor, it must be done slowly and carefully. Do not let the machine jolt against the floor. When the machine is in its final location, replace the lifting rings with the star knobs as shown in **Figure 2**. Be sure to place the 10mm flat washers and 10mm lock washers on the star knobs threaded post before installing. These washers help the star knobs remain secure and protect the finish of the machine.

Figure 2. Star Knob Installation

Keep the lifting rings in a safe location where they will not become lost. These rings will need to be re-installed if the machine is ever to be lifted and moved in the future.

WARNING The machine is heavy with a 792 lb (360kgs) shipping weight. DO NOT over-exert yourself while unpacking or moving your machine– you will need assistance and power equipment. Serious personal injury may occur if safe moving methods are not followed.
Make sure floor structure is capable of supporting the combined weight of the machine parts and people.

CAUTION Some metal parts may have sharp edges on them after they are formed. Please examine the edges of all metal parts before handling them. Failure to do so could result in injury.

PIECE INVENTORY

After all the parts have been removed from the carton, you should have as shown in **Figure 3**:

- ✓ (2) Base Support
- ✓ (2) Star Knob M10-1.5 x 15
- ✓ (4) Lock Washer 10mm
- ✓ (4) Flat Washer 10mm
- ✓ (4) Hex Bolt M10-1.5 x 30
- ✓ (4) Rubber Pad 1/2"-12 x 1
- ✓ (1) Sanding Belt 9" x 138-1⁄2"
- ✓ (1) Lock handle

Figure 3. Parts layout

In the event that any nonproprietary parts are missing (e.g. a nut or a washer), we would be glad to replace them, or for the sake of expediency, replacements can be obtained at your local hardware store.

SITE CONSIDERATIONS

FLOOR LOAD

Most commercial or home shop floors should be sufficient to carry the weight of the sander. If you question the strength of your floor, you can opt to reinforce it. Ensure that the stand or bench you use; it is capable of supporting the machine.

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WORKING CLEARANCES

Working clearances can be thought of as the distances between machines and obstacles that allow safe operation of every machine without limitation. Consider existing and anticipated machine needs, size of material to be processed through each machine, and space for auxiliary stands and/or work tables. Also, consider the relative position of each machine to one another for efficient material handling. Be sure to allow yourself sufficient room to safely run your machines in any foreseeable operation and keep dust collection hoses off the floor and out of the way.

LIGHTING AND OUTLETS

Lighting should be bright enough to eliminate shadows and prevent eye strain. Electrical circuits should be dedicated or large enough to handle combined motor amp loads. Outlets should be located near each machine so power or extension cords are not obstructing high-traffic areas. Be sure to observe local electrical codes for proper installation of new lighting, outlets, or circuits.

SECTION 4: ASSEMBLY

BEGINNING ASSEMBLY

Most of your machine has been assembled at the factory, but some parts must be assembled or installed after delivery. Install this machine on a solid and level concrete floor. Leave proper space around the machine for handling the materials to be machined.

TOOLS REQUIRED: You will need a small adjustable wrench, a flat and Phillips head screwdriver, and a machinist's square.

After the machine has been located at a proper work site, proper leveling needs to be made. The following steps should be taken:

RUBBER PAD

Four rubber pad are furnished to help absorb machine vibration, to even out imperfections in the floor, and to protect the machine from general stress. To install the rubber pad:

1. Screw the rubber pad into the threaded holes on the underside of the base supports as shown in **Figure 4**.
2. Do not overtighten the pad. Cast iron threads are softer than the steel threads on the pad. Overtightening can cause the cast iron threads to become stripped.

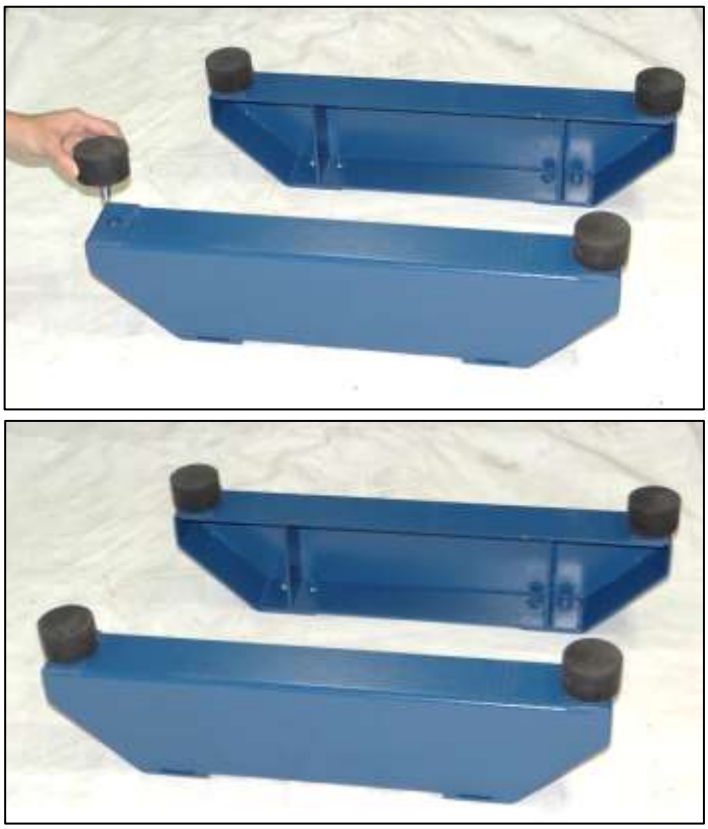


Figure 4. Attaching rubber pad

BASE SUPPORTS

Attaching base supports to the main base:

1. Slide the base supports under the main machine base.
2. Using (4) M10-1.5 x 30 hex bolts, (4) 10mm flat washers, and (4) 10mm lock washers, secure the main machine base to the base supports as shown in **Figure 5.** Be sure the lock washer is between the hex bolt head and the flat washer when installing.

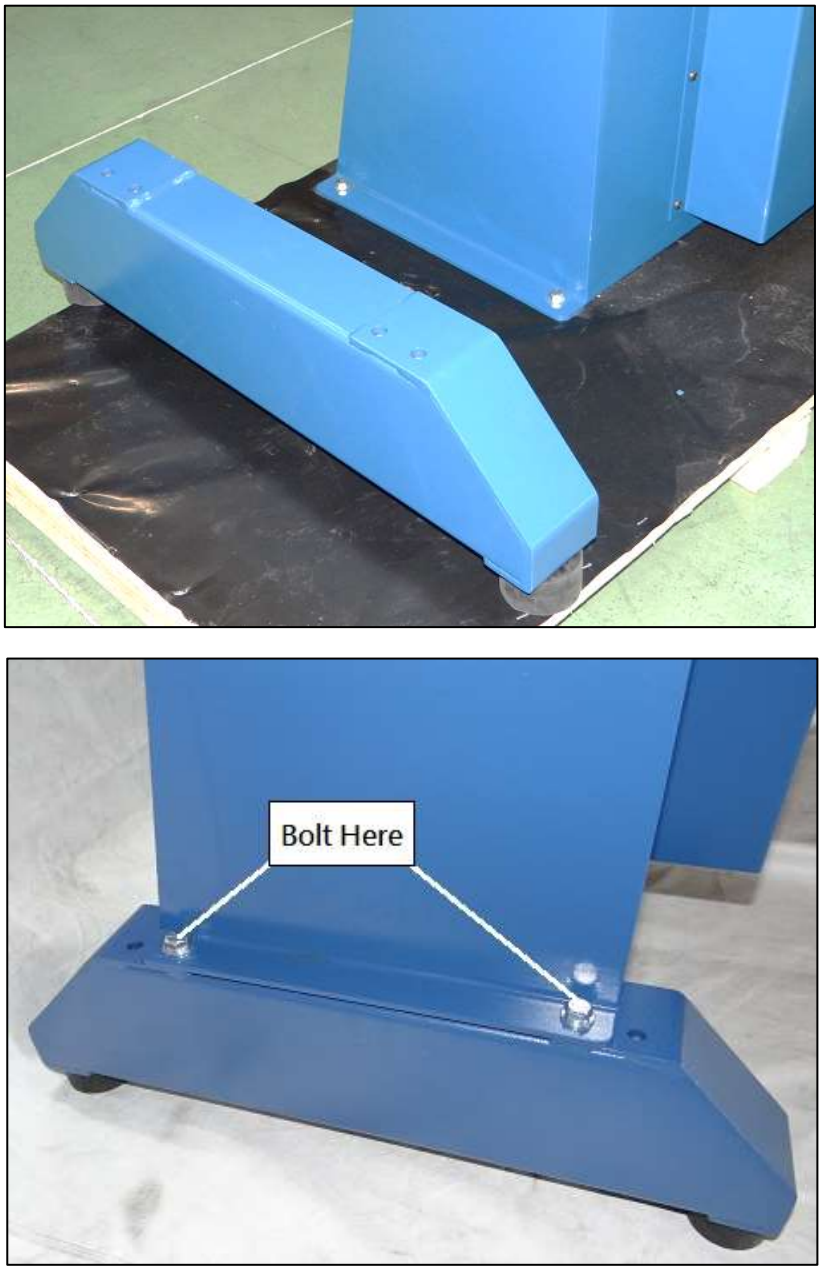


Figure 5. Attaching base supports to main base

SECTION 5: ADJUSTMENTS

POWER SWITCH

The machine must be turned ON to visually check the results of certain adjustments made to the sander; however, actual adjustments should never be performed while the machine is plugged in.

1. Before connecting the power wires make sure the voltage between the machine and your factory power source is the same.
2. Connect the power wires to the breaker.
3. The machine must be properly grounded to prevent possible injury from electrical shock.
4. **Qualified electrical personnel should perform all electrical connections.**

Figure 6. Magnetic power switch

WARNING Grounding should be based on the local regulations.

DUST COLLECTION

The machine has (2) 4" (100mm) dust hoods. One is positioned for use with the corner table. The second dust hood is for use with the main table. The dust hoods provided on the machine for sucking dust from the sanding units. The side table dust hood is adjustable to allow optimum positioning for various sanding operations.

To adjust the corner table dust hood:

1. Loosen the lock handle shown in **Figure 7.**
2. Rotate the dust hood until the desired position is achieved.
3. Tighten the adjustable lock handle in **Step 1**.
4. Hook up a 4" (100mm) dust collection hose to the dust hood and secure with a hose clamp.

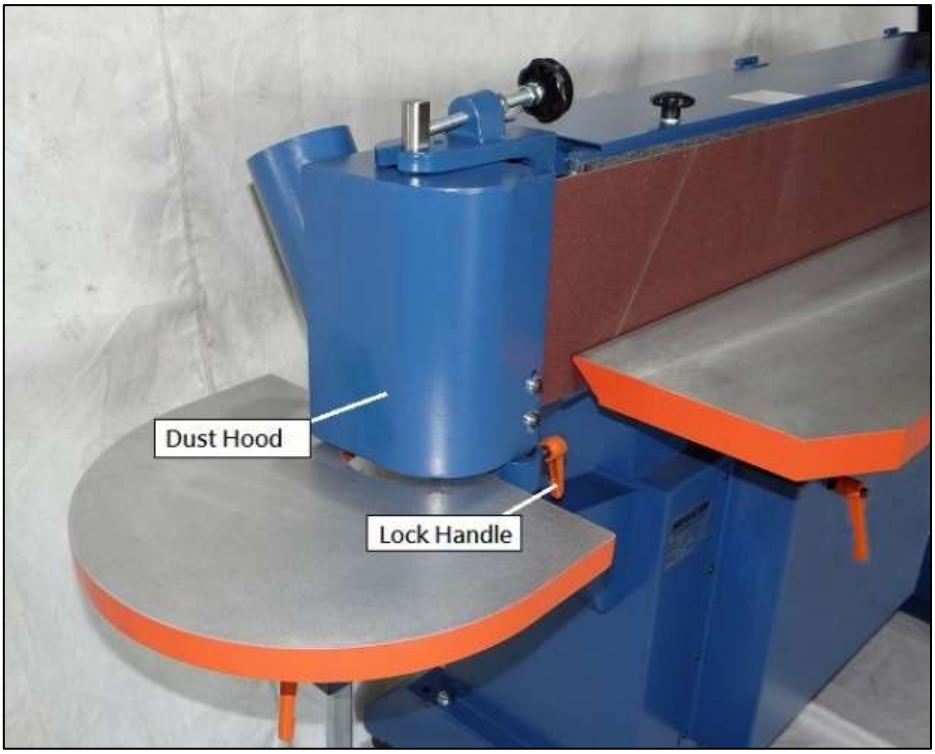


Figure 7. Dust hood lock handle

CAUTION Always wear a dust mask when using the machine. Using this machine produces sawdust which may cause allergic reactions or respiratory problems.

SANDING BELT ROTATE DIRECTION

After the power wires have been connected, it is necessary to check the sanding belt rotation before performing any sanding operations. The sanding belt should rotate in the same direction as the sticker located on the top of the machine. To check the sanding belt rotation:

1. Press the drive motor start switch; press the ON switch and then the OFF switch immediately after. The sander belt should run just long enough to observe the direction of sanding belt.
2. The sanding belt should rotate according to the indicant direction as the arrow sticker in **Figure 8.**
3. If the sanding belt does not rotate in the correct direction, please contact our technical service immediately.

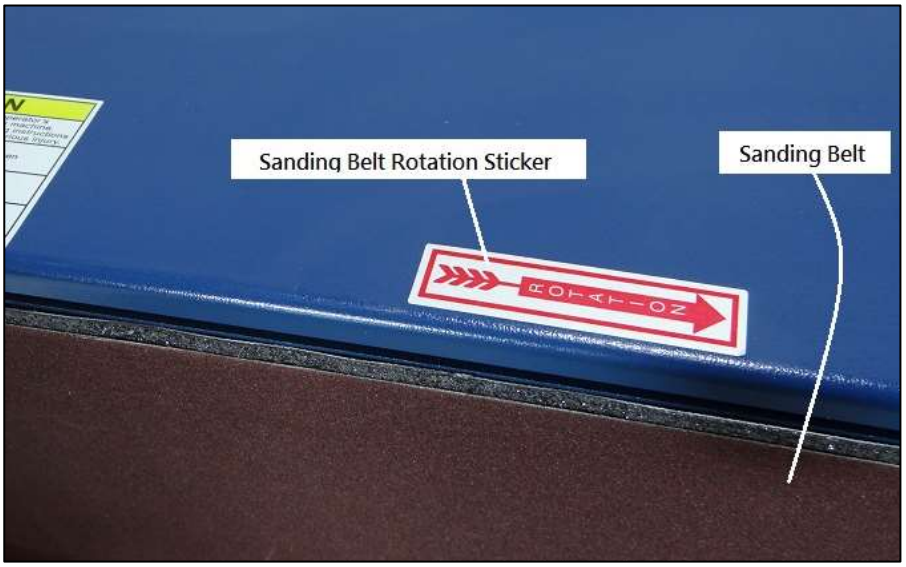


Figure 8. Sanding belt rotation arrow

WARNING Do not attempt to perform any adjustments to the sanding belt while the machine is connected to a power source. Failure to unplug before adjusting the sanding belt could result in serious personal injury.

SANDING BELT REPLACEMENT

To replace the sanding belt:

1. **Disconnect the machine from the power source.**
2. Open the guard on the sanding unit.
3. Lift the access door to allow easy access to the sanding belt and the tensioning lever.
4. Shift the sanding belt tension lever to the left to loosen the sanding belt as shown in **Figure 9.**

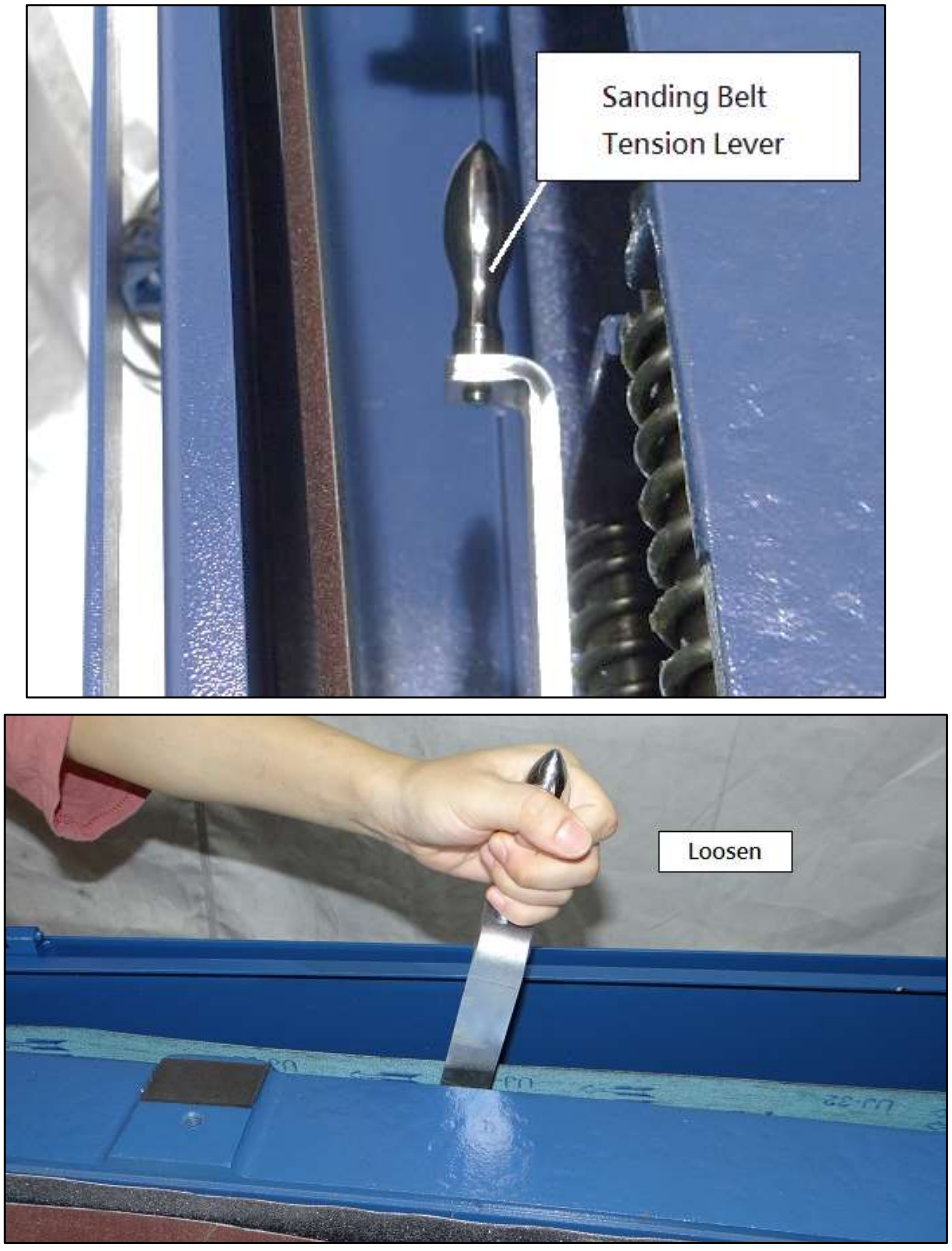


Figure 9. Sanding belt tension lever

5. Take out the old sanding belt and replace it with a new one.
6. Make sure the directional arrow on the inside of the sanding belt is pointing in the same direction as the directional arrow on the machine; as shown in **Figure 10**.
7. Shift the sanding belt tension lever to the right to tighten the sanding belt.
8. Make the sanding belt adjustment. (see next section)
9. Close the guard.

Figure 10. Sanding belt direction

SANDING BELT ADJUSTMENT

After the sanding belt has been removed or replaced, it is necessary to adjust the sanding belt tracking. To adjust the sanding belt tracking:

1. Press the ON switch and then the OFF switch immediately after. The sander should run just long enough to observe the track the sanding belt makes across the rollers.
2. If the sanding belt does not track on a centered path across the rollers, adjustment is necessary.
3. **Disconnect the machine from the power source!**
4. Loosen the check nut (A) shown in **Figure 11**.
5. Turn the adjustable knob (B) counter-clockwise then the sanding belt should move upward. Turn the adjustment knob clockwise then the sanding belt should move downward. (shown in **Figure 11**.)
6. Once the sanding belt is consistently tracking across the center of the rollers, tighten down the check nut that was loosened in Step 4.

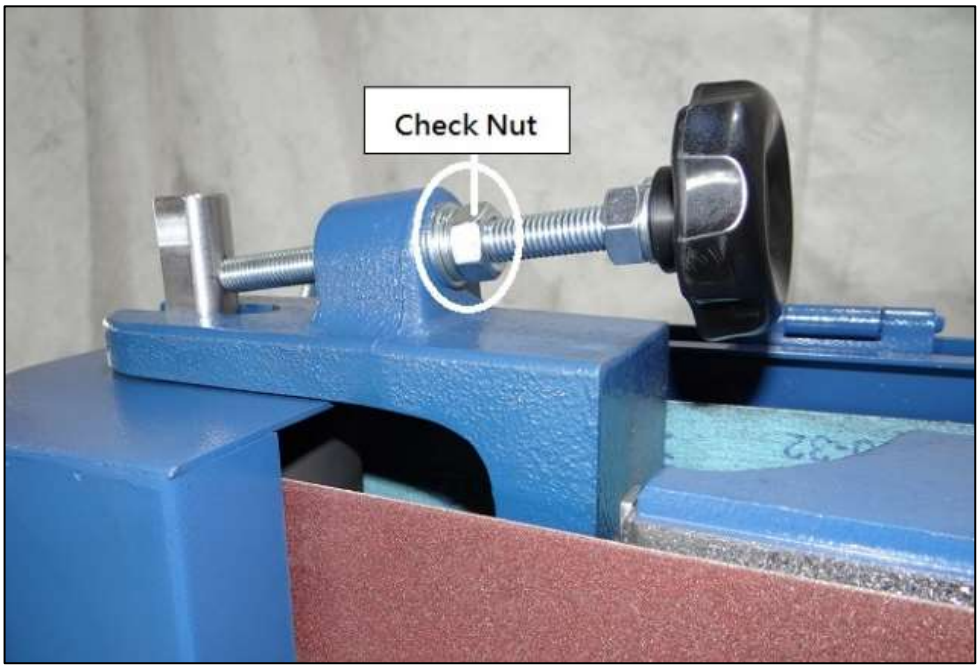


Figure 11. Belt tracking knob

WARNING Do not attempt to perform any adjustments to the sanding belt while the machine is connected to a power source. Failure to unplug before adjusting the sanding belt could result in serious personal injury.

MAIN TABLE HEIGHT/ POSITION ADJUSTMENT

The main table adjustable to accommodate a wide range of work pieces and sanding operations; it can be adjusted according to different work piece thickness and sanding belt sharp conditions. Because the main table is designed with a special balance mount, it is easily adjusted up and down. Adjusted as follows:

1. Adjusting main table height with the hand wheel as shown in **Figure 12**.

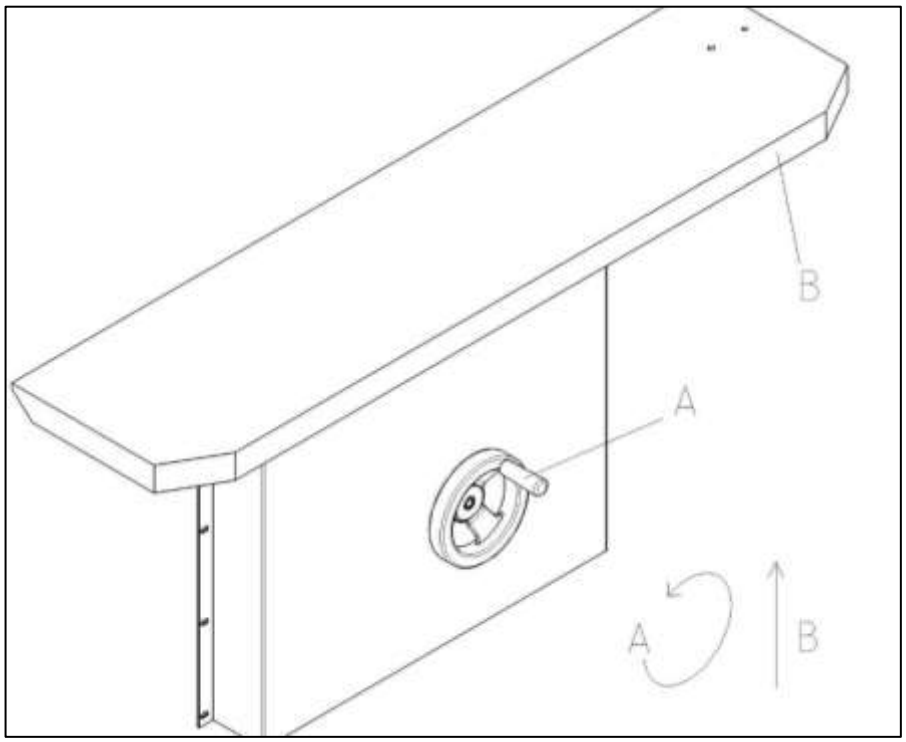


Figure 12. Adjusting main table height

MAIN TABLE ANGLE

The main table position can be adjusted from 0°-45°. To adjust the angle position of the main table:

1. Loosen the lock handles underneath each end of the main table as shown in **Figure 13**.
2. Tilt the table into the desired position by reading the scale on the side of the bracket; it helps you find specific angles.
3. While holding the table in the desired position, tighten each of the locking handles loosened in **Step 1**.
4. Changing the table angle may reduce the clearance, to adjust clearance between the inside edge of the table and the sanding belt surface as follows:
   - If there is less than 1/16" clearance, loosen the fixing bolts located on the underside of the table mounting bracket as shown in **Figure 13**.
   - Pull the table and mounting bracket away from sanding belt so there is at least 1/16" clearance between the inside edge of the table and the sanding belt surface.
5. After adjustment, re-tighten the fixing bolts loosened in **Step 4**.
6. Recheck; Repeat **Step 4** and **5** if necessary.
7. We recommend using a square to adjust and/or verify the main table angle scale accuracy as shown in **Figure 14**.

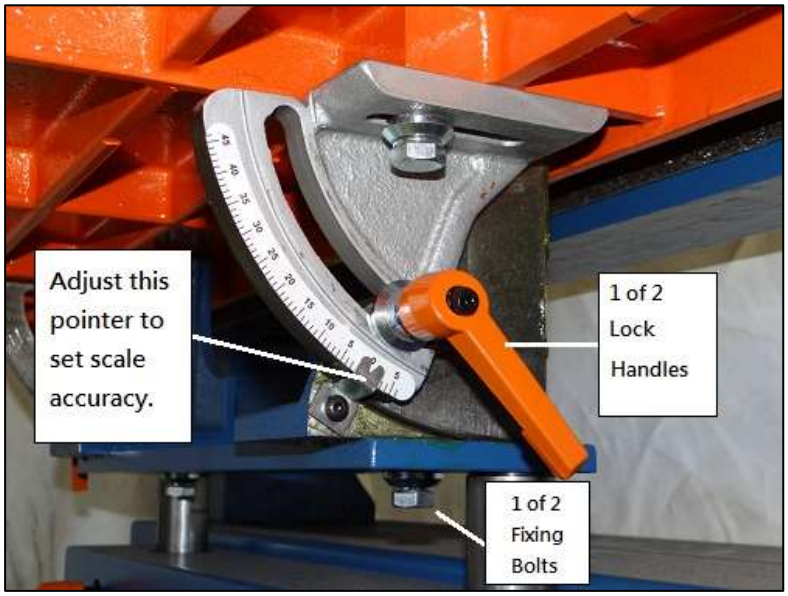


Figure 13. Main table angle adjustment lever

Figure 14. Setting main table to 90°

MITER GAUGE

The main table has a stationary miter gauge that is used to hold the workpiece at various angles against the sanding belt. The miter gauge is precisely set on the working table with easy-to-read graduation for the convenience of sanding. Adjusted as follows:

1. Loosen the lock handle shown in **Figure 15**.
2. Rotate the miter gauge to desired position by reading the indicator scale.
3. Tighten the lock handle loosened in **Step 1** after the miter gauge position is desired.
4. We recommend using a square to adjust and/or verify the miter gauge scale as shown in **Figure 16**.

Figure 15. Main table miter gauge

Figure 16. Setting miter gauge to 90°

CORNER TABLE

The corner table can be adjusted to accommodate a wide range of workpieces. To adjust the side table:

1. Loosen the lock handle shown in **Figure 17**.
2. Move the corner table to the desired height.
3. Tighten the lock handle loosened in **Step 1** after the table position is at the desired height.

CORNER TABLE ANGLE

The corner table angle can be adjusted tilting angle according to different workpiece angle adjust as follows:

1. Loosen the lock handle underneath the side table shown in **Figure 18**.
2. Swivel the table to the desired position.
3. While holding the side table in the desired position, tighten the lock handle loosened in **Step 1**.

Figure 17. Lock handle for side table height

Figure 18. Lock handle for side table angle

SECTION 6: OPERATIONS

TEST RUN

Once assembly is complete and adjustments are done to your satisfaction, you are ready to test run the machine.

Turn on the power supply at the main panel. Press the START button. Make sure that your finger is poised on the switch, just in case there is a problem. The machine should run smoothly, with little or no vibration or rubbing noises. Strange or unnatural noises should be investigated and corrected before operating the machine further. If you cannot easily locate the source of an unusual noise or vibration, contact our Service Department for help.

SANDING BELTS

There are many types of sanding belts to choose from. We recommend Aluminum Oxide for general workshop environments. Below is a chart that groups abrasives into different classes, and shows which grits fall into each class.

Grit	Type
24-36	Very Coarse
40-60	Coarse
80-100	Medium
120-180	Fine
220-360	Very Fine

The general rule of thumb is to sand a workpiece with progressively higher grit numbers, with no one grit increase of more than 100.

WARNING Disconnect power to the machine when performing any maintenance, assembly or adjustments. Keep loose clothing rolled up and keep hair pulled back. Wear safety glasses during the entire operation process. Always wear a dust mask when operating the machine. Failure to comply may result in serious personal injury and cause allergic reaction or respiratory problems.

SECTION 7: MAINTENANCE

GENERAL

This oscillating belt edge sander is designed and manufactured for easy operation and maintenance. Regular periodic maintenance of your machine will ensure its optimum performance. Make a habit of inspecting your machine each time you use it. Check for the following conditions and repair or replace when necessary:

1. Loose mounting bolts.
2. Worn switch
3. Worn or damaged cords and plugs
4. Damaged or worn sanding belt
5. Any other condition that could hamper the safe operation of this machine

PERIODIC MAINTENANCE

1. The machine requires thorough cleaning once a day
2. Check of the auxiliary wheel and drive wheel
3. Check of screws and bolts

(After the machine has been operated for long period of time the auxiliary wheel and drive wheel may be wear. If this happens the wheels need to be replaced.)

LUBRICATION

There are 2 grease fittings shown in **Figure 19**. Grease these points after approximately 50 hours of use. All other bearings are sealed and permanently lubricated, simply leave them alone until they need to be replaced. Do not lubricate them.

WARNING Disconnect power to the machine when performing any maintenance, assembly or adjustments. Keep loose clothing rolled up and keep hair pulled back. Wear safety glasses during the entire operation process. Failure to comply may result in serious personal injury.

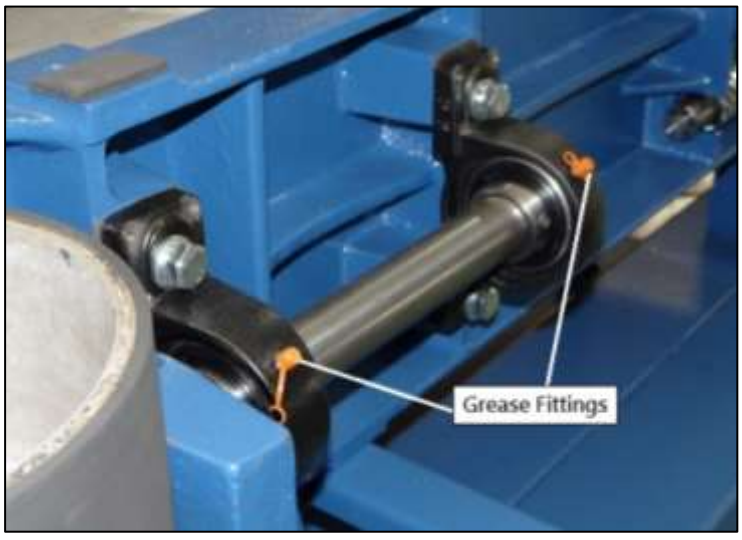


Figure 19. Oscillation grease fittings

MACHINE DATA SHEET

SPECIFICATIONS OF OSCILLATING EDGE SANDER

Design Type.....Floor Model

Overall Dimensions and Specifications:

Table Size.....47¾" x 11¾"
Overall Height (With Handle Up) .....45½"
Table Height (from bottom of base) .....33" to 41"
Length .....82"
Width .....24"
Side Sanding Table Dimensions .....18" x 13"
Sanding Table Travel .....7"
Platen Size .....Graphite Coated - 9½" x 47½"
Belt Size .....9" x 138½"
Belt Speed.....4120 F.P.M.
Table Tilt .....0˚ to 45˚
Shipping Weight.....792 lbs.
Net Weight.....682 lbs.
Crate Size.....86⅝" L x 28¼" W x 45¼" H
Footprint .....42" x 24½"

Construction:

Base.....Sheet Steel
Table.....Aluminum
Idler Roller .....Rubber, 4 "
Drive Roller .....Rubber, 9"

Motor:

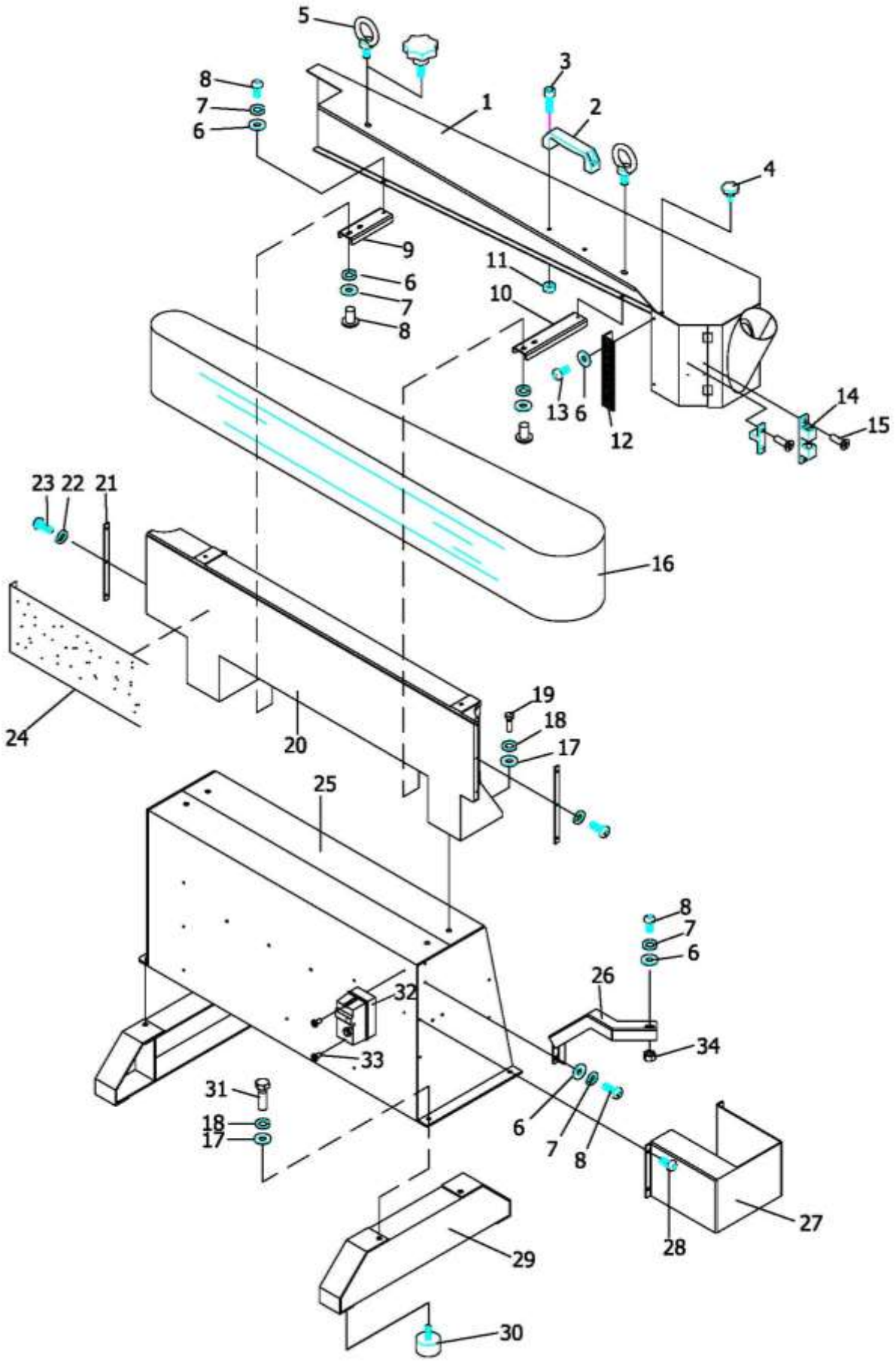
Horsepower.....3HP
Switch.....Magnetic w/ Thermal Protection
Power Transfer .....Direct Drive
Bearings .....Shielded & Lubricated Ball Bearings

Features:

.....Sanding Belt Oscillates 1/4”
.....4" Dust Port
.....Miter Work Stop
.....Quick Belt Release Lever
.....Belt Tracking and Tension Adjustment
.....8" of Table Height Adjustment
.....Graphite Coated Platten

Specifications, while deemed accurate, are not guaranteed.

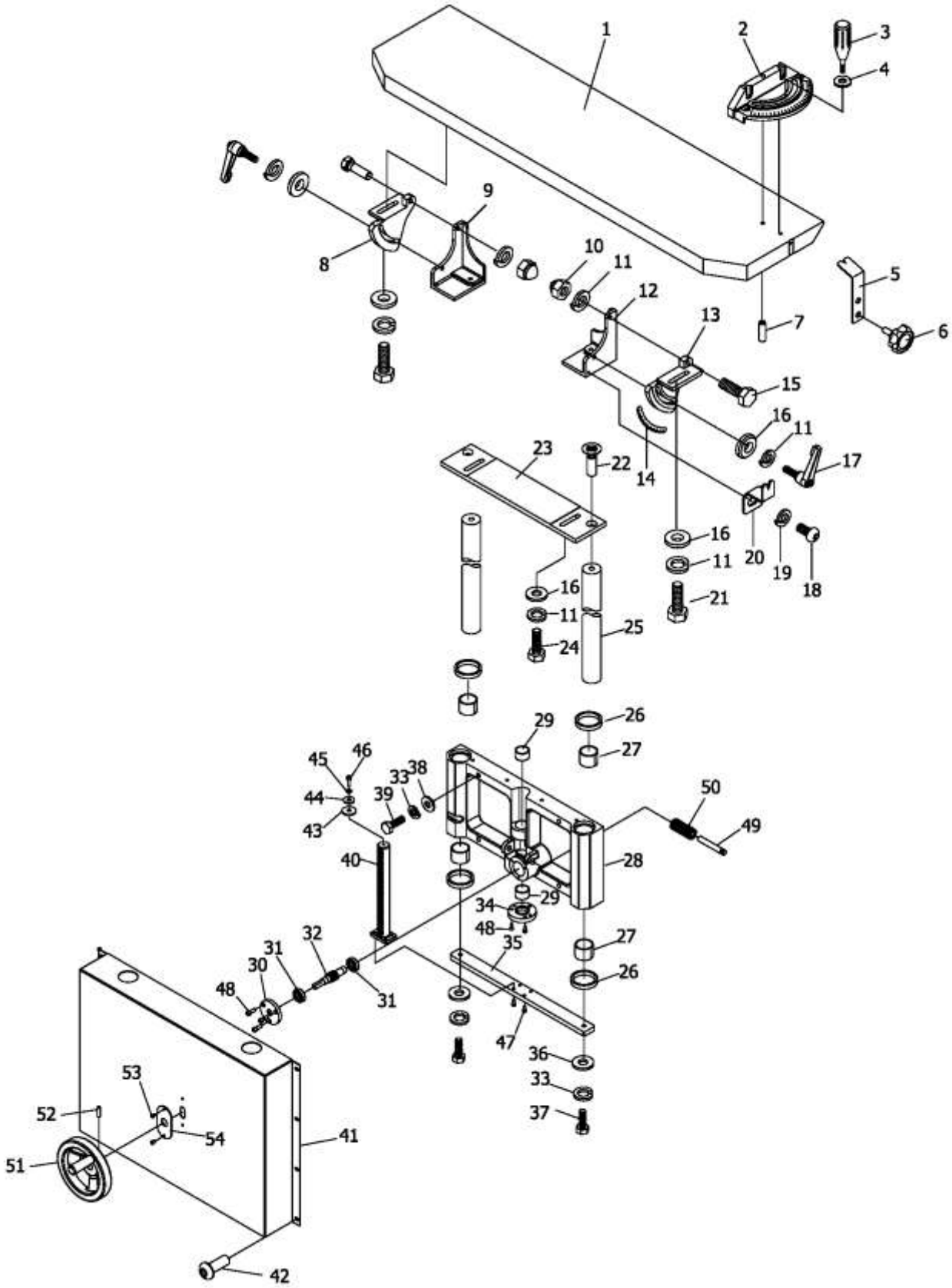
EXPLODED DIAGRAM FOR BASE AND BELT



PARTS LIST FOR BASE AND BELT

NO.	Description	Specification	Q'TY
1	Guard Plate		1
2	"U" Handle		1
3	Cap Screw	M8x16	2
4	Plum Screw	1/4"x3/4	1
5	Eye Bolt	M10	2
6	Washer	1/4"x16x1.5	11
7	Spring Washer	1/4"	9
8	Button Head Screw	M6x16	9
9	Bracket (Short)		1
10	Bracket (Long)		1
11	Nut	M8	2
12	Guard Plate		1
13	Button Head Screw	M6x8	2
14	Clipper		1
15	Countersunk Phillips Head Screw	M3x6	4
16	Sanding Belt	230x3520	1
17	Washer	3/8x23x2	8
18	Spring Washer	3/8"	8
19	Hex. Head Screw	M10x40	4
20	Support Base		1
21	Plate		2
22	Spring Washer	M5	6
23	Button Head Screw	M5x16	6
24	Platten	250x1250	1
25	Machine Base		1
26	Bracket		1
27	Cover		1
28	Button Head Screw	M6x12	4
29	Base Support		1
30	Rubber Pad	M12x50	4
31	Hex. Head Screw	M10x25	4
32	Magnetic Switch		1
33	Phillips Head Screw	3/16"x1/2"	4
34	Nut	M6	1

EXPLODED DIAGRAM FOR TABLE AND COVER

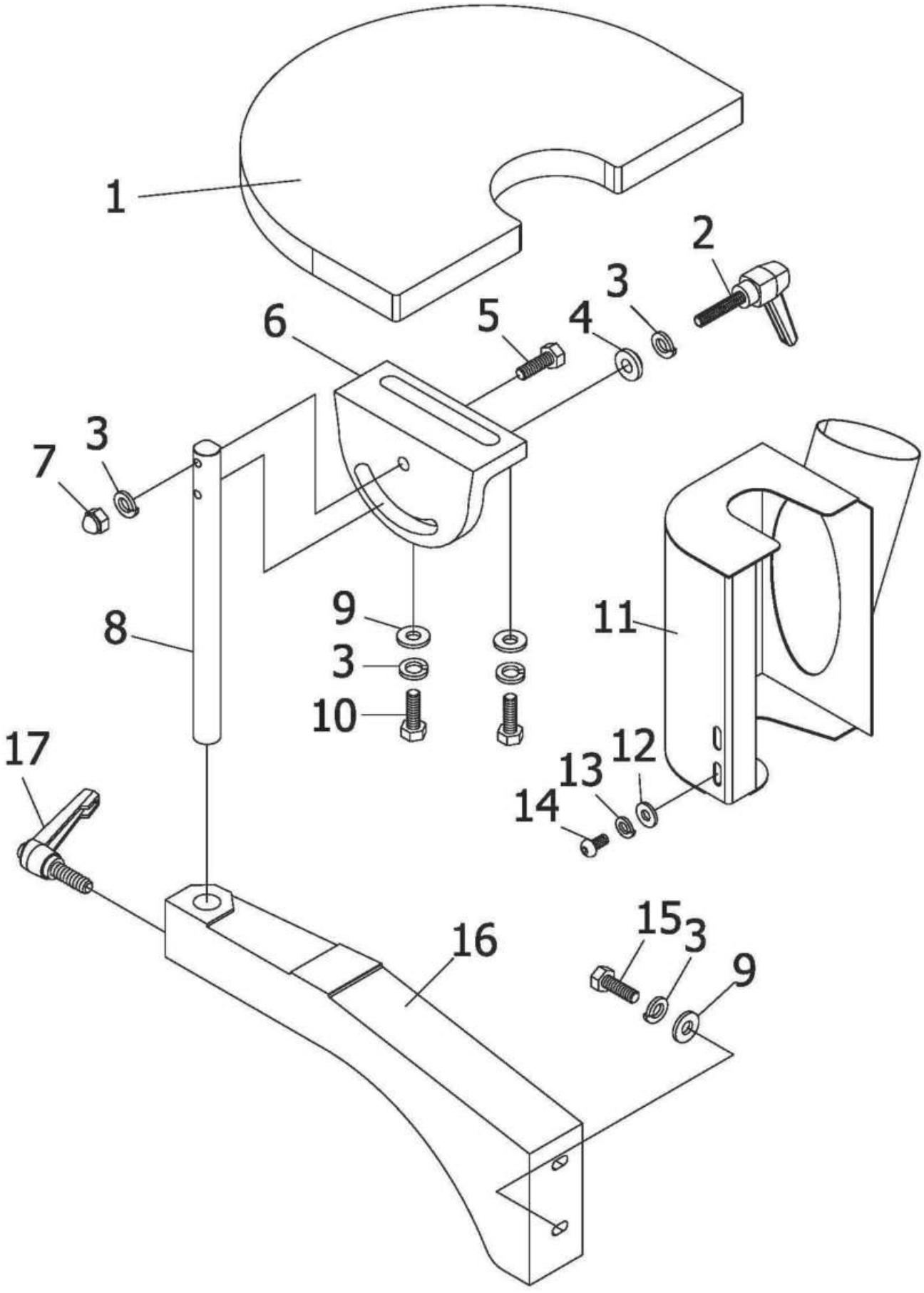


PARTS LIST FOR TABLE AND COVER

NO.	Description	Specification	Q'TY
1	Outside Table		1
2	Miter Gauge		1
3	Lock Handle		1
4	Washer		1
5	Pointer		1
6	Plum Screw	M5x10	1
7	Pin	M8x20	1
8	Adjustment Base (Left)		1
9	Bracket (Left)		1
10	Nut	M10	2
11	Spring Washer	3/8"	8
12	Bracket (Right)		1
13	Adjustment Base (Right)		1
14	Indicator Scale		1
15	Button Head Screw	M10x35	2
16	Washer	10.2x25x6	6
17	Lock Handle	M10x35	2
18	Button Head Screw	M5x10	1
19	Spring Washer	M5	1
20	Pointer		1
21	Hex. Head Screw	M10x35	2
22	Countersunk Phillips Head Screw	M10x15	2
23	Adjustment Plate		1
24	Hex. Head Screw	M10x30	2
25	Shaft	35x425	2
26	Seal	35x50x8	4
27	Bearing	ϕ 35x30(TAC-3530)	4
28	Elevation Block		1
29	Bearing	ϕ28 x ϕ32 x 20	2
30	Front Bearing Cap		1
31	Ball Bearing	6002ZZ	2
32	Worm		1
33	Spring Washer	5/16"	6
34	Lower Bearing Cap		1
35	Adjustment Plate		1

36	Washer	5/16x23x2	2
37	Hex. Head Screw	M8x30	2
38	Washer	5/16x18	4
39	Hex. Head Screw	M8x60	4
40	Square Thread		1
41	Cover		1
42	Button Head Screw	M6x8	8
43	Washer	1/2”xΦ34x3	1
44	Washer	1/4”x19x1.2	1
45	Spring Washer	1/4”	1
46	Cap Screw	M6x12	1
47	Cap Screw	M5x15	4
48	Cap Screw	M5x10	6
49	Worm Gear Spindle		1
50	Worm Gear	T15xP1.5	1
51	Hand Wheel		1
52	Set Screw	M8x12	1
53	Button Head Screw	M5x6	2
54	Anti-dust Plate		1

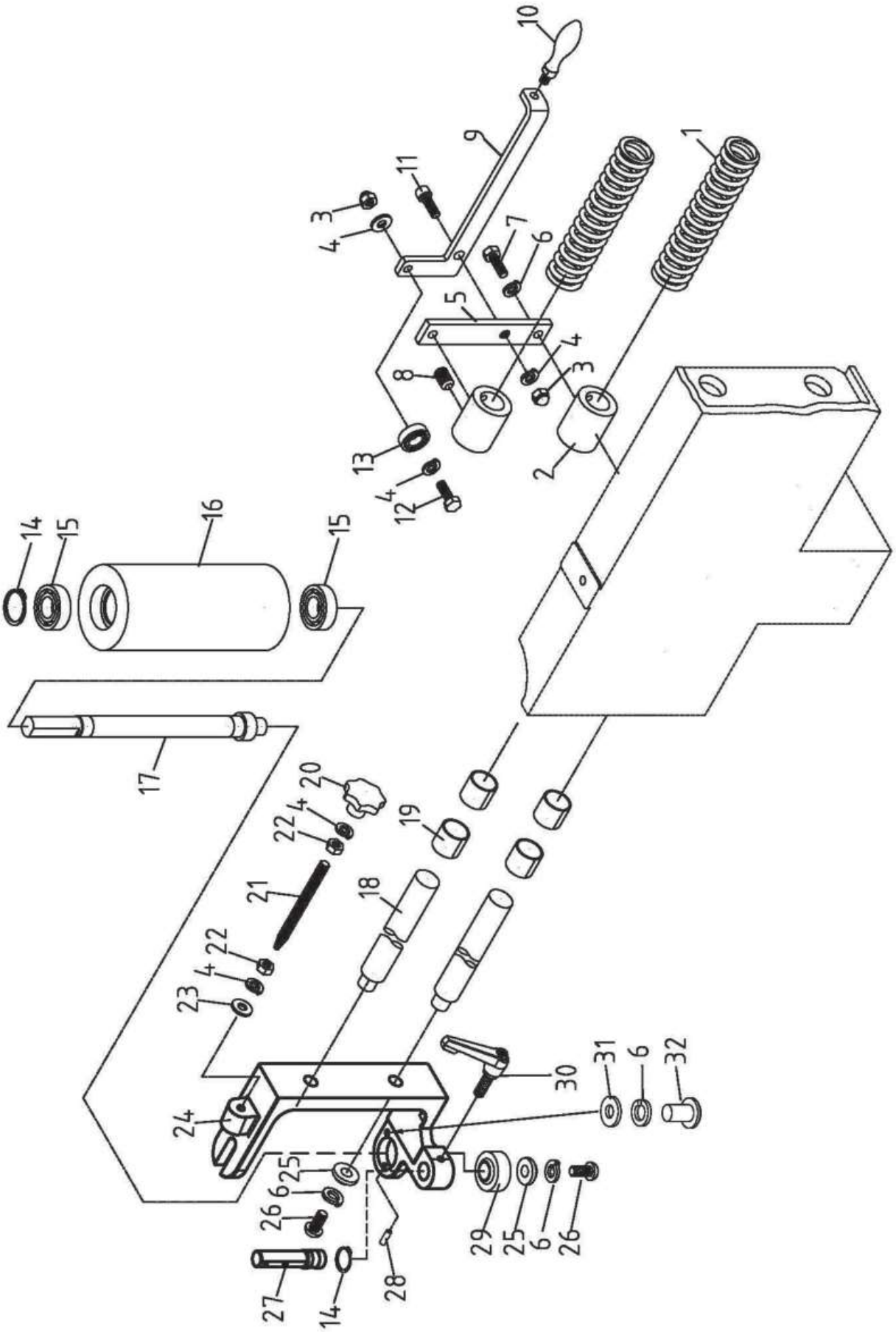
EXPLODED DIAGRAM FOR CORNER TABLE



PARTS LIST FOR CORNER TABLE

NO.	Description	Specification	Q'TY
1	Corner Table		1
2	Lock Handle	M10x35	1
3	Spring Washer	M10	6
4	Washer	10.2x25x6	1
5	Hex. Head Screw	M10x50	1
6	Adjustment Base		1
7	Nut	M10	1
8	Shaft		1
9	Washer	3/8x23x2	2
10	Hex. Head Screw	M10x25	2
11	Dust Hood		1
12	Washer	5/16x18	2
13	Spring Washer	5/16"	2
14	Button Head Screw	M8x16	2
15	Hex. Head Screw	M10x40	2
16	Corner Table Support		1
17	Lock Handle	M10x20	1

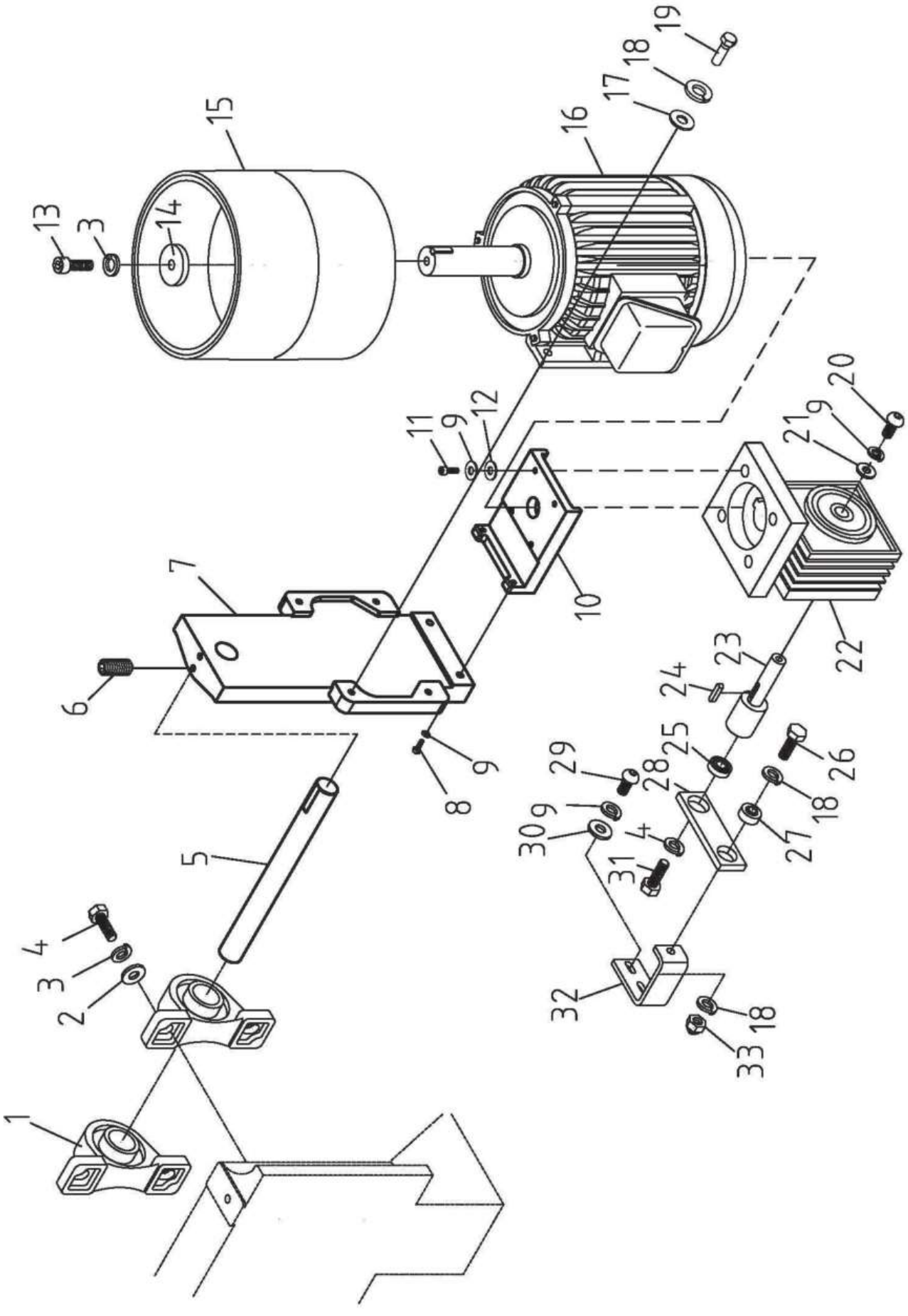
EXPLODED DIAGRAM FOR IDLER DRIVE



PARTS LIST FOR IDLER DRIVE

NO.	Description	Specification	Q'TY
1	Spring	5.5x43x236x14.5	2
2	Stopper Block	φ49x60L	2
3	Nut	M12	2
4	Spring Washer	M12	5
5	Plate	175x31.8x9.5	1
6	Spring Washer	3/8"	5
7	Cap Screw	M10x20	2
8	Set Screw	M10x10	4
9	Lever		1
10	Handle	M10	1
11	Cap Screw	M12x30	1
12	Hex. Head Screw	M12x30	1
13	Bearing	6201	1
14	Retaining Ring	S-25	2
15	Bearing	6205	2
16	Roller		1
17	Shaft	Φ 25x334	1
18	Shaft	φ30x550	2
19	Brush	3025	4
20	Star Knob	M12x63	1
21	Threaded Rod	M12x155	1
22	Nut	M12	2
23	Washer	1/2x24x2.5	1
24	Bracket		1
25	Washer	10.2x25x6	3
26	Button Head Screw	M10x25	3
27	Shaft	ϕ25x112	1
28	Set Screw	M6x12	1
29	Spherical Bearing	PB-20	1
30	Lock Handle	M10x20	1
31	Washer	3/8x23x2	1
32	Button Head Screw	M10x16	1

EXPLODED DIAGRAM FOR DRIVE UNIT



PARTS LIST FOR DRIVE UNIT

NO.	Description	Specification	Q'TY
1	Pillow Block Bearing	UCP-207	2
2	Washer	1/2"x24x2.5	4
3	Spring Washer	M12	6
4	Hex. Head Screw	M12x40	4
5	Shaft	φ35x355	1
6	Set Screw	M10x10	2
7	Motor Base		1
8	Cap Screw	M8x35	2
9	Spring Washer	M8	9
10	Bracket		1
11	Button Head Screw	M8x20	4
12	Washer	5/16"x18	4
13	Hex. Head Screw	M12x35	1
14	Packing		1
15	Drive Wheel		1
16	Motor	3HP	1
17	Washer	3/8x23x2	4
18	Spring Washer	M10	6
19	Hex. Head Screw	M10x35	4
20	Button Head Screw	M8x25	1
21	Washer	5/16x23x5	1
22	Reducer Casing		1
23	Cam	Φ35*120	1
24	Key	6x6x30	1
25	Bearing	#6001	1
26	Hex. Head Screw	M10x30	1
27	Spherical Bearing	#PB-10	1
28	Bearing Housing		1
29	Button Head Screw	M8x20	2
30	Washer	5/16x23x2	2
31	Hex. Head Screw	M12x30	1
32	Bracket		1
33	Nut	M10	1