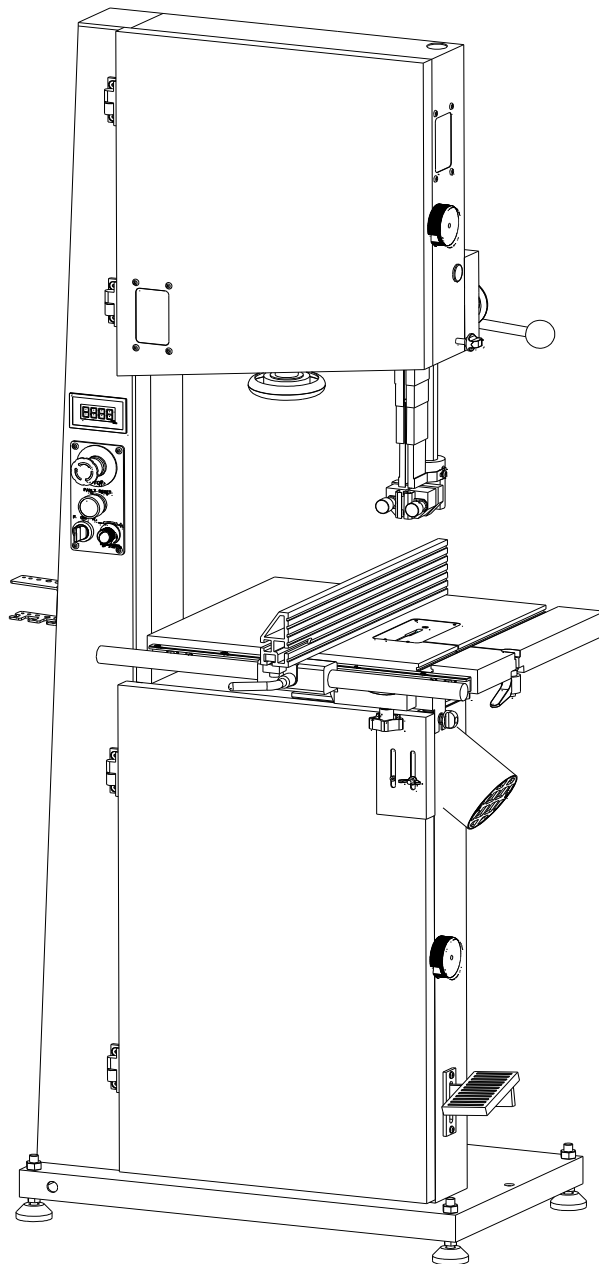


INSTRUCTION MANUAL



Woodworking Band Saw

MODEL: C-18VS

Harvey Industries Co.,Ltd.

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Safety Rules

LARGE ELECTRIC TOOLS SAFETY

1. Know your band saw

Get up manual instruction for machine maintenance manual in all points before starting any maintenance work.

2. Ground connection

This machine with grounding plug ,must ensure that ground .Green or green rolling line of yellow color for the grounding line , can never make a mistake .

3. Use the shield

4. Remove the wrench

Form a good habit: to ensure adjustment tools , such as start-up go forward all the wrench .

5. Keep the working area clean

In a timely manner to clean the ground to ensure that the ground is not wet.

6. To avoid dangerous working environment

Can't use machine in damp environment, also cannot expose machine in the rain.

7. Stay away from the children

All bystanders should keep a safe distance. With the working area.

8. Children shall be prohibited from entering the preparation

9. Use appropriate machine speed

10. Use the right tools

11. Wear suitable work

Can't through greater than loose clothing, gloves, tie or wearing jewelry.

12. Always wear protective glasses

13. Don't get too close to the workspace

14. Careful maintenance machine

Always keep the machine clean, in order to assure the best the best performance, in a timely manner in accordance with the specifications and lubrication and replace the attachment.

15. Deenergization

Before maintenance, should ensure that power off.

16. To avoid accidental activation

Before access to the power supply, do not contact switch.

17. Use the specified in the attachment

18. Never stand on the machine

19. Regularly check damaged parts

20. Never leave the machine before machine did not stop completely

Woodworking band saw machine safety

1. Before removing the desktop batten, always ensure the stop of the saw blade.

2. Always make sure that the hands and fingers away from the blade.

3. Ban try sawing logs directly, because there is no a flat base surface logs, if use the appropriate support device can be.

4. Always firmly grip the wood and then feed close to the saw blade at uniform speed.

5. If, after cutting blade is still in the wood, should first turn off the power.

6. Adjustment on saw card distance by cutting material about 1/8 ".

7. Check the size and model of the saw blade to satisfy the requirements of cutting.
8. To ensure that the saw blade tensioning force and the position has been adjusted in position.
9. The long curve cutting, make sure tension a little loose.

Unpacking and Checking Contents

The machine is shipped complete in one box!

Before discarding any packaging material, separate all “loose parts” and check each item with “table of loose parts” to make sure all items are accounted for.

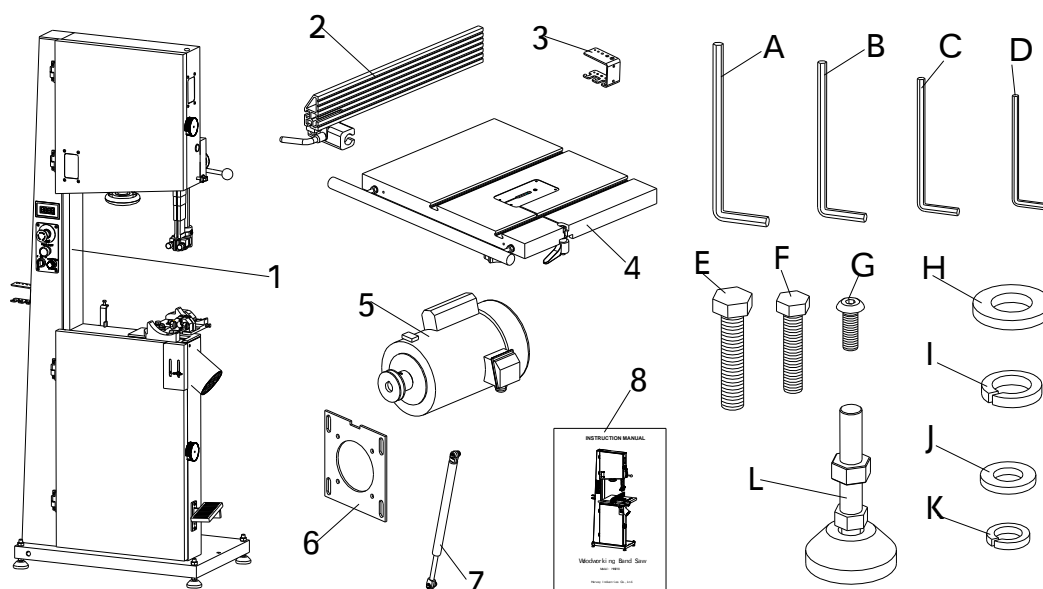


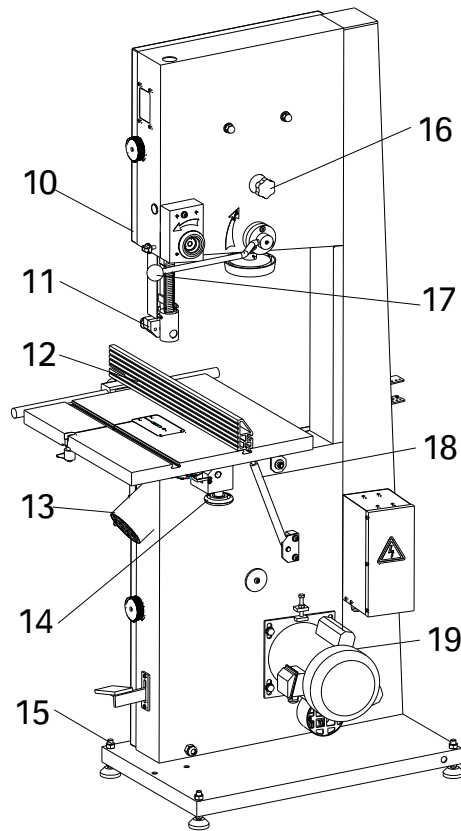
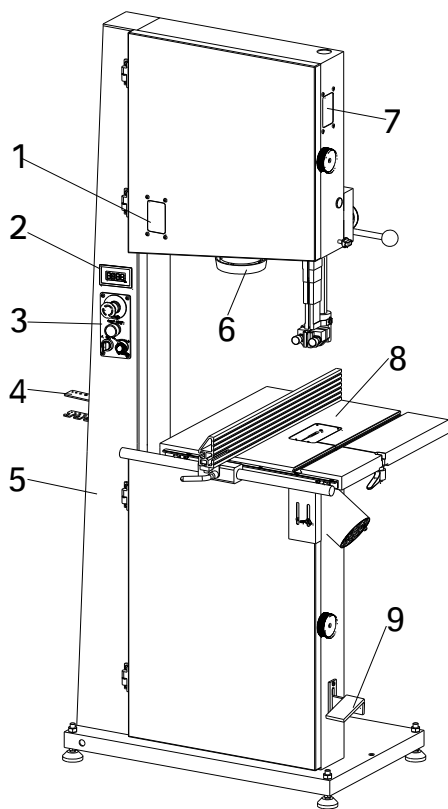
Table of Loose Parts

NO	Name	Qty
1.	Band saw Assembly	1
2.	Rip Fence Assembly	1
3.	Tool Storage Hooks	1
4.	Main Table	1
5.	Motor	1
6.	Motor Flange	1
7.	Spring Assembly	1
8.	Instruction Manual	1

Table of Hardware Parts

NO	Name	Qty
A.	Hex wrench 5 mm	1
B.	Hex wrench 4 mm	1
C.	Hex wrench 3 mm	1
D.	Hex wrench 2 mm	1
E.	Hex bolt m10*25	4
F.	Hex bolt 3/8-16*3/4	4
G.	Button head screw m5*16	2
H.	Flat washer 10	8
I.	Lock washer 10	8
J.	Flat washer 5	2
K.	Lock washer 5	2
L.	Bottom screw 12×60	4

Getting To Know Your Band Saw



1. Tension Indicator Window
2. Display
3. Switch
4. Tool Storage Hooks
5. Frame
6. Blade Tension Lever
7. Blade Tracking Window
8. Iron Table
9. Foot brake
10. Blade Guide Adjustment Hand wheel

11. Blade Guide
12. Rip Fence Assembly
13. Upper Dust Port 4"
14. The workbench saw seam lock handle
15. Bottom screw
16. Blade Tracking Knob
17. Quick Release Blade Tension Lever
18. Supporting Spring Assembly
19. Motor

Specifications

Blade length (inch)	145"
Table tilt	0° to -20°
Max. cutting width (mm)	440
Max. cutting depth (mm)	360
Table size (mm)	510 * 510
Min. blade size	1/8"
Max. blade size	1"
Motor date	230V, 60HZ, 3HP

Electrical Requirements & Switch Operation

WARNING!

All electrical connections must be done by a qualified electrician. failure to comply may result in serious injury! Adjustments or repairs-must be done with the machine disconnected from the power source.failure to comply may result in serious injury!

POWER SUPPLY

Warning! This band saw came pre-wired for 230v operation and must be connected to an appropriately grounded 230v outlet as shown in fig. 1



Fig. 1

GROUNDING

Warning! if outlet is not properly grounded, this band saw can cause electrical shock.pparticularly when used in damp locations. to avoid shock or fire, if the power cord is worn or damaged in any way,have it replaced immediately.not all outlets are properly grounded. if you are not sure if your outlet is properly grounded, have it checked by a qualified electrician.

Warning! To maintain proper grounding of your band saw. do not remove or alter the grounding prong in any manner.



Fig. 2

SAFETY SWITCH OPERATION

The operation box as shown in fig. 3 needs to be installed to side of frame ,see assembly section in this manual for further instructions.

Do not turn the band saw on until all assembly and adjustment instructions have been done.

As shown in figure 3:

Speed display (A) Stop button (B) Position switch(C)
Start button(D) Speed control knob(E)

To start the band saw, press the green start button (D) . and to stop the band saw, press the red stop button (B).

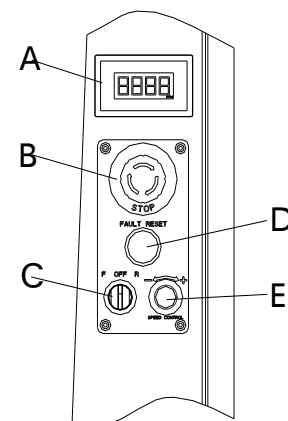


Fig. 3

Assembly

The band saw is supplied partly assembled. Prior to use, the following items have to be assembled!

disassembling floor amounting bolts

To be safe, we mounting the band saw to the pallet for shipment, so firstly, you must remove the pallet and slowly set the band saw into position by hardware, fig 4.

You must mount your machine to rigid, level floor that keep the machine stable.

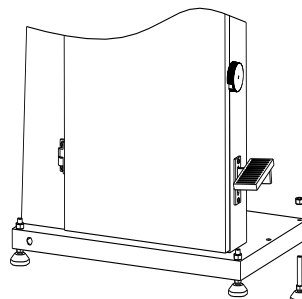


Fig. 4

ASSEMBLING MOTOR

Firstly, you assemble motor (A) to the motor flange (B) by hex bolt (E) 、 lock washer (D) and flat washer (C) .secondly, assemble them to the frame by hex bolt、 lock washer and flat washer. Then tension the v-belt by motor gravity, Finally ,tighten the bolts. In fig. 5.

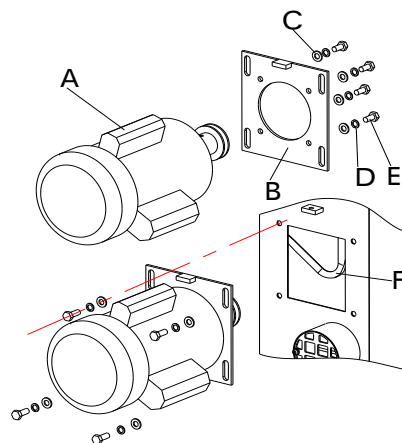


Fig. 5

ASSEMBLING WORKING TABLE

Release the knob (A), then put the working table assembly into the trunnion groove (B), adjust the working table move freely, then pre-tighten the nut (A)! In fig. 6.

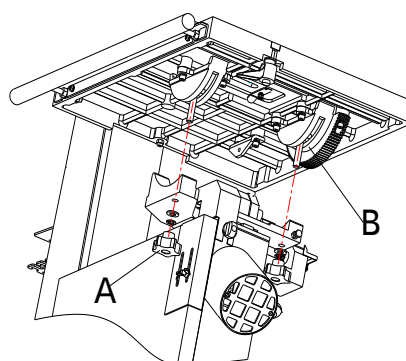


Fig. 6

ASSEMBLING SPRING ASSEMBLY

Rotate the working table 20° with anticlockwise, then install the spring assembly into table bottom and frame by hardware (C,D,E), in fig. 7.

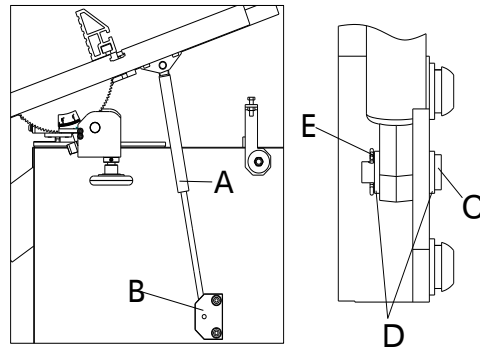


Fig. 7

ASSEMBLING RIP FENCE

Slide the rip fence into the round tube, and adjustment the rip fence parallel with T-slot, and perpendicularity with table, finally tighten the lock lever(B), in fig 8.

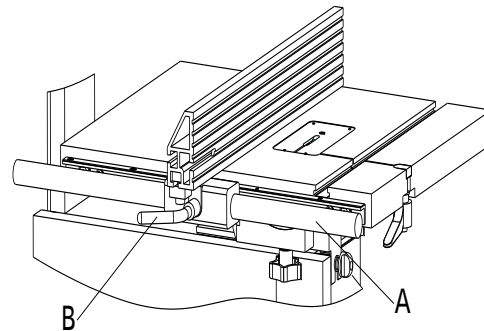


Fig. 8

ASSEMBLING TOOL STORAGE HOOKS

Installing the operation box, keeping the face of operation button is front, in fig 9.

Then installing the tool storage hooks into the frame by button head screw (A) and flat washer (B).

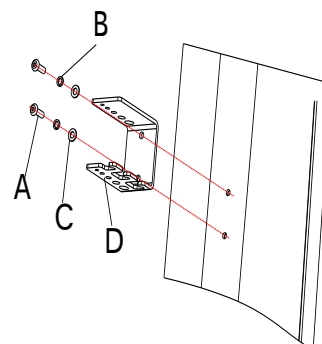


Fig. 9

Saw blade assembly

First, remove the bedplate protection plate(B) and Loosen handle(C), and then saw blade (A) Bedplate crack on the bedplate center and across the flywheel, up and down on the up and down Saw card center, then turn the saw blade Tight grip (D), tensioning saw blade, again Installed protection plate (B), at last Lock knob (C). As shown in figure 10.

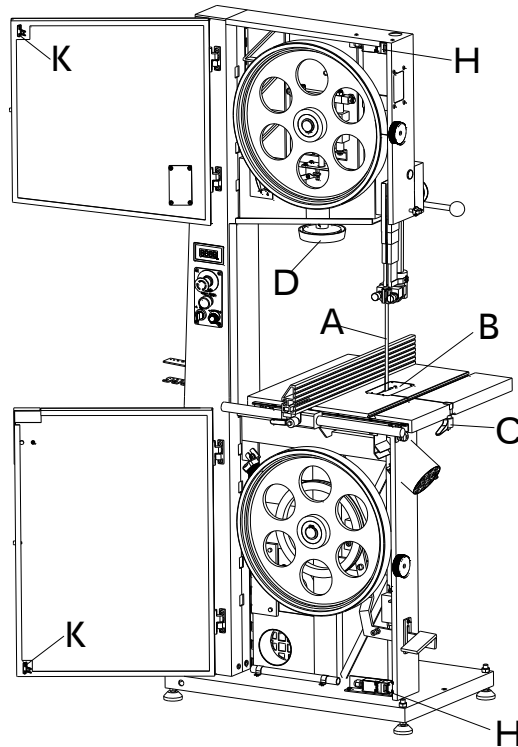


Fig. 10

Switch of the door

Pictured above 10 H for the limit switch; K for the key, when the door is open, start button is failure, must limit switch closing rear can normal boot; On the other hand, when the normal work, open the door, the motor stop working immediately.

Warning: the normal work, directly open the door is not allowed, because the rotation inertia, saw wheel is still turning, when open the door after the full stop. Keep the limit switch keyhole clean, especially the door of the keyhole.

Adjustment

Adjust the tension of saw blade

1. Rotate quickly tension handle(E) to the lock position, and turn the saw blade tension handle (D) to adjust Tension.
2. Slowly release the saw blade tensioning lever until the saw blade a slight oscillation.
3. Slowly increase the tension, until the saw blade stopped swinging, Then fixed tension lock handle.
4. Adjust the trajectory of saw blade, to ensure the saw blade always in the center of the pulley, and the most in the wheel high location. As shown in figure 11.

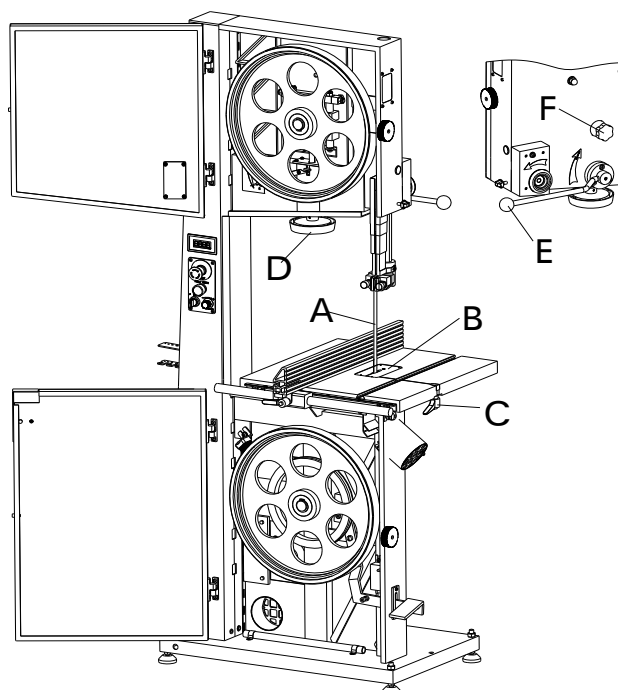


Fig. 11

Adjusting upper and lower blade guide

Blade guide factory before shipment has been adjusted, the saw blade is located in the center of the blade guide and both sides Parallel to the saw blade, if not, then you need to adjust:

1. Adjust the blade guide, as shown in fig. 12 loosen knob(B) and then adjust the blade guide (C) the article about two porcelain(D) and parallel blade guide(C), then lock knob(B), using a wrench to loosen screw (G)adjust the article round porcelain, screw (F) is to adjust the saw before and after the whole movement and swinging, loosen (E)adjust the steering, all must lock all screw after the adjustment..

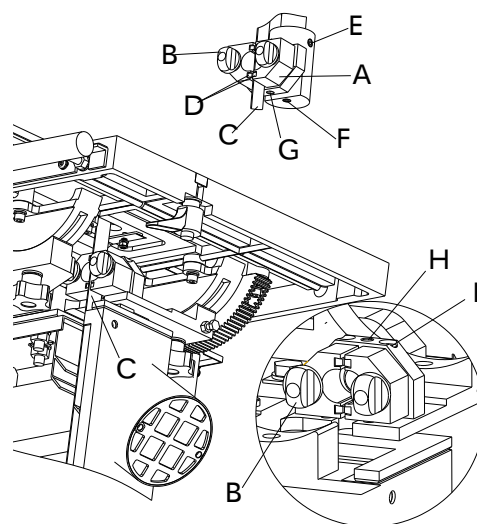


Fig. 12

2. Adjust the blade guide, as shown in figure 13. Loosen knob (B), mobile porcelain article, adjust the blade is located in Article porcelain center with the blade guide (C) two parallel to the side, Then lock knob (B), using a wrench to loosen (H) before, during and after the article can adjust round porcelain (K) is to adjust the screw saw card before and after the whole mobile, all must lock all after the adjustment screws.

ADJUSTING WORKING TABLE

First of all, loosen the handle (D) rotating counter hand again(B), make the pointer to 0° then combination with Angle ruler to measure, ensure straight on side and bedplate Angle is 90° , if inconsistent, you may need to adjust, indeed Pointer display scale is consistent with the combined Angle ruler, then lock screw (C), the most after the lock handle (D).

As shown in figure 13.

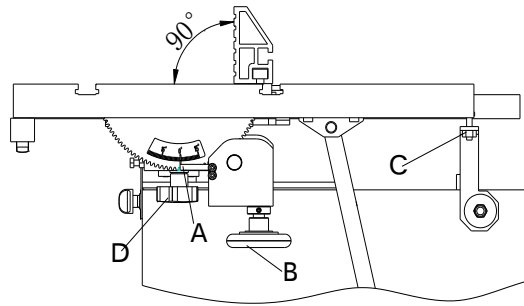


Fig. 13

ADJUSTING RIP FENCE

1. First turn on the Rip fence assembly(A) close to the T slot(B) side;
2. Adjust the Rip fence assembly , make the side parallel to T slot. as shown in figure 14.

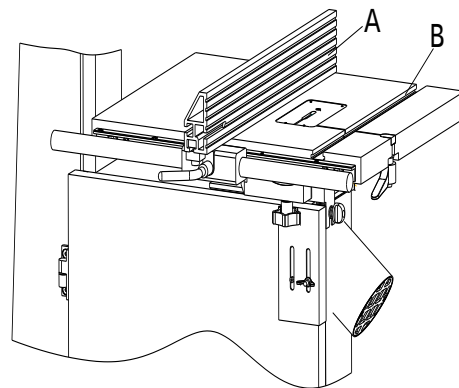


Fig. 14

ADJUSTING THE TABLE 0° --- POSITION STOP -20°

1. Loosen the workbench handle(C), rotate the bedplate(A), make the Angle pointer to 0° then adjust the zero support (B), so that just in 0° to resist bedplate, then lock nut (E) as shown in figure 15.

2. Loosen the workbench handle(C), rotate the bedplate(A), make the Angle pointer to -20° then lock nut (D) as shown in figure 15.

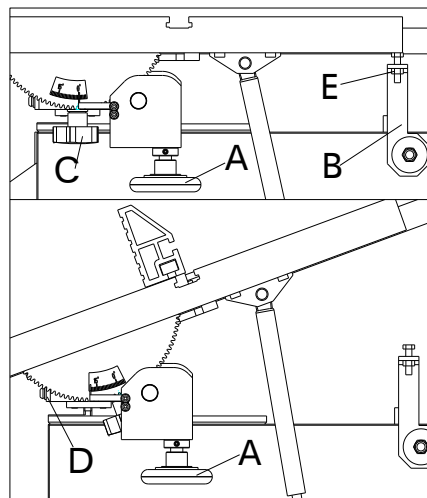


Fig. 15

Operation

SAFETY PRECAUTIONS BEFORE OPERATION!!

The operation of power tools involves a certain amount of hazard for the operator. Before attempting regular work we recommend you get the feel of operations using scrap lumber to check settings. Read entire instructions before you start to cut work piece. Always pay attention to safety precautions to avoid personal injury!

OPERATION

Band saw includes ripping and crosscutting, plus a few other standard operations of a fundamental nature. The following methods feature safety. As with all power tools there is a certain amount of hazard involved with the operation and use of tool. Using the tool with the respect and caution demanded as far as safety precautions are overlooked or completely ignored, personal injury to the operator can develop. It is good practice to make trial cuts using scrap material when setting up your operations.

CROSSCUTTING

Crosscutting is the process of cutting across the grain of wood, for plywood and other processed wood, crosscutting simply means cutting across the width of material.

1. mark the work piece on the edge where you want to begin the cut.
2. adjust the blade guide assembly to the correct height and make sure the miter gauge is set to 90.
3. move the fence out of the way, place the work piece evenly against the miter gauge.
4. hold the work piece against the miter gauge and line up the mark with the blade.
5. After all safety precautions have been met, turn the band saw on, slowly feed the work piece into the blade and continue the cut till the blade is all the way through the work piece ,fig 17 shows a 90 crosscutting operation.



Fig 16

RIPPING

Ripping is the process of cutting with the grain of the wood stock, for plywood and other processed wood, ripping simply means cutting down the length of the work piece.

1. Adjust the fence to match the width of the cut on your work piece and lock the fence in place.
2. Adjust the blade guide assembly to the correct height.
3. After all safety precautions have been met ,turn the band saw on, slowly feed the work piece into the blade is completely through the work piece.Fig18 shows a typical ripping operation.



Fig 17

Note. If you are cutting narrow pieces, use a push stick to protect your fingers!

Operation

RESAWING

Re sawing is the process of cutting a board into two or more thinner boards, the maximum board width that can be re sawn is limited by the maximum cutting height of the band saw. One of the most important considerations when resawing is blade selection, generally, the wider blade, the better. In most applications, a hook or a skip tooth style will be desirable. Choose blades with fewer teeth-per-inch, because they offer large gullet capacities for clearing saw-dust, reducing heat buildup and reducing strain on the motor. In fig 19.



Fig 18

CUTTING CURVES

When cutting curves, simultaneously feed and turn the stock carefully so that the blade follows the layout line without twisting, if a curve is so abrupt that it is necessary to repeatedly back up and cut a new kerfs , use either a narrower blade or a blade with more TPI (teeth per inch), or make more relief cuts. Always make short cuts first, then proceed to the longer cuts, relief cuts will also reduce the chance that the blade will be pinched or twisted. Relief cuts are cuts made through the waste portion of the work piece and are stopped at the layout line. As you cut along the layout line, waste wood is released from the work piece, alleviating any pressure on the back of the blade, relief cuts also make backing the work piece out easier, if needed. In fig. 20.



Fig 19

STACKED CUTS

One of the benefits of a band saw is its ability to cut multiple copies of a particular shape by stacking a number of work pieces together. Before making stacked cuts, ensure that both the table and the blade are properly adjusted to 90, otherwise, any error will be compounded. In fig .21.



Fig. 20

Maintenance

This band saw requires very little maintenance other than minor lubrication and cleaning! The following sections detail what will need to be done in order to assure continued operation of your band saw.

8.1 LUBRICATION

Sealed and pre-lubricated ball bearings require no lubrication for the life of the bearings, all bearings are standard sizes, and replacements can be purchased from our parts department or a bearing supply store.

For adjustment controls, and occasional “shot” of light oil is just about all that is necessary, wipe off any sawdust with a clean cloth, towel, or dry paint brush, and spray on the lubricant, do not get oil on the pulleys or v-belt because it could cause belt deterioration and slipping.

8.2 CLEANING

Cleaning your band saw is relatively easy, vacuum excess wood chips and sawdust, and wipe off the remaining dust with a dry cloth, if any resin has built up, use a resin dissolving cleaner to remove it, treat all unpainted cast iron and steel with a non-staining lubricant after cleaning.

8.3 WHEEL BRUSH

The band saw is equipped with a lower wheel brush, the brush should be checked daily and cleaned when it becomes dirty, there is an adjustment bracket that allows the brush to be adjusted for bristle wear.

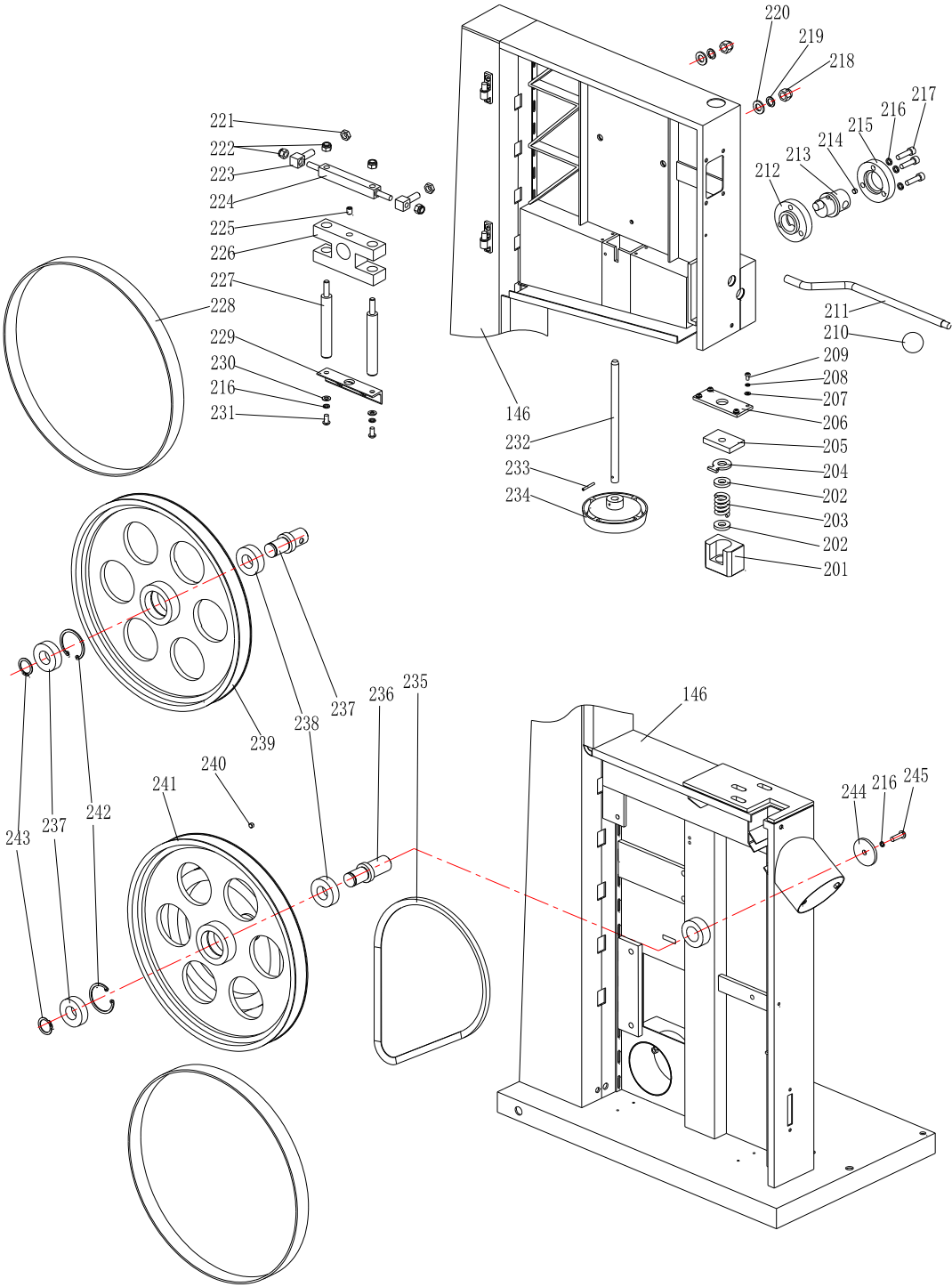
Safety function

The interlocking guards shall be checked at every shift. Open the interlocking guard, the machine cannot be started. This indicates the interlocking function is correct. If the safety function is failed, please ask the qualified personnel immediately.

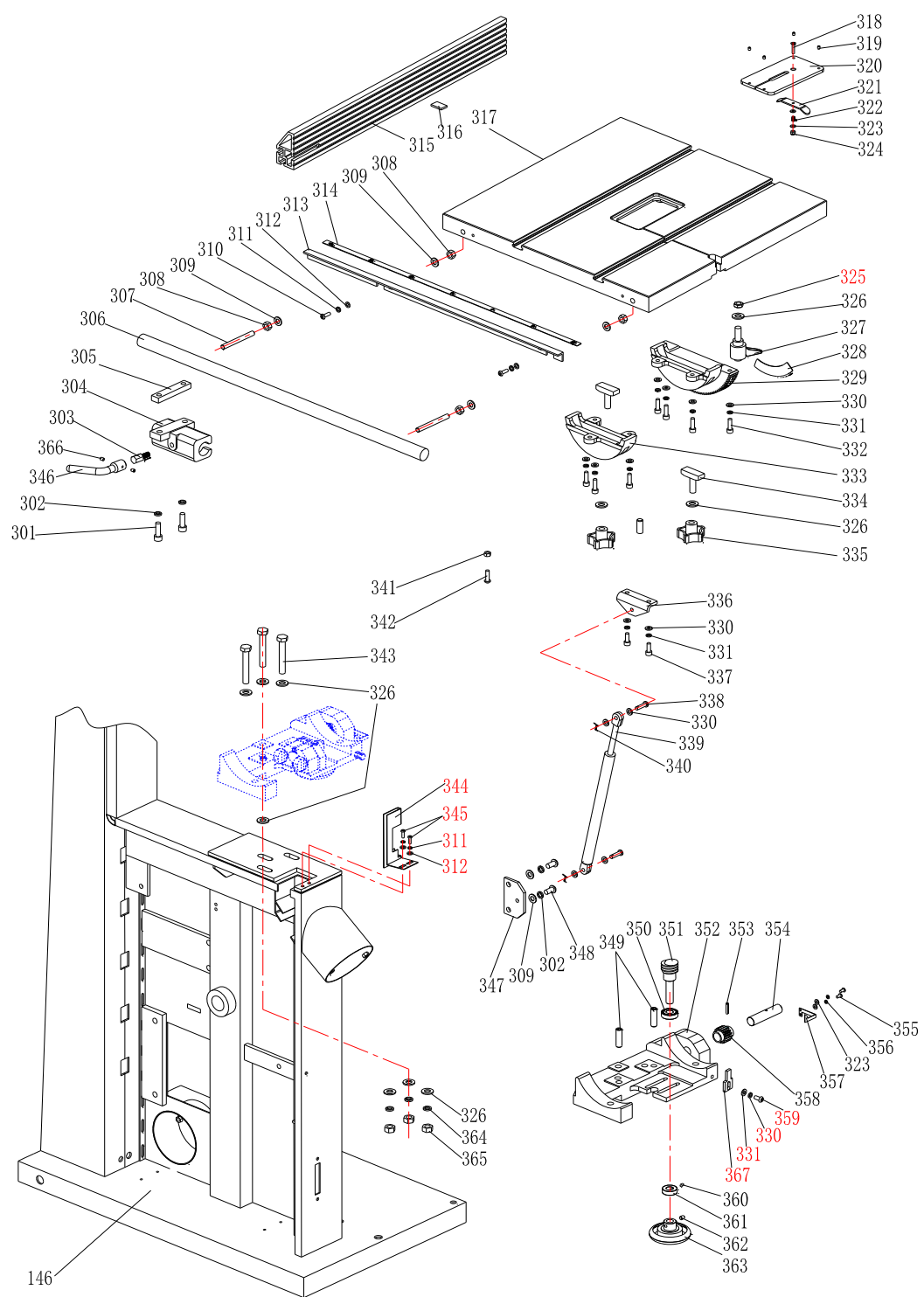
This exploded view diagram illustrates the assembly of a medical device, likely a portable X-ray unit. The main components are shown in an exploded state to reveal their internal structure and assembly sequence. The diagram includes the following numbered parts:

- 101-106:** Front panel assembly, including the main panel (101), mounting brackets (102, 103), and a central display or control area (104, 105, 106).
- 107-114:** Internal components of the front panel, including a control panel (107), a circular component (108), and various mounting hardware (109, 110, 111, 112, 113, 114).
- 115-121:** A complex internal assembly, possibly a motor or actuator, with various mounting brackets (115, 116, 117, 118, 119, 120, 121).
- 122-125:** A circular component, likely a fan or filter, with mounting hardware (122, 123, 124, 125).
- 126-127:** A circular component, possibly a lens or sensor, with mounting hardware (126, 127).
- 128-132:** A control panel or display unit with mounting hardware (128, 129, 130, 131, 132).
- 133-138:** A control panel or display unit with mounting hardware (133, 134, 135, 136, 137, 138).
- 139-142:** A control panel or display unit with mounting hardware (139, 140, 141, 142).
- 143-145:** A control panel or display unit with mounting hardware (143, 144, 145).
- 146:** The main base or chassis of the device.

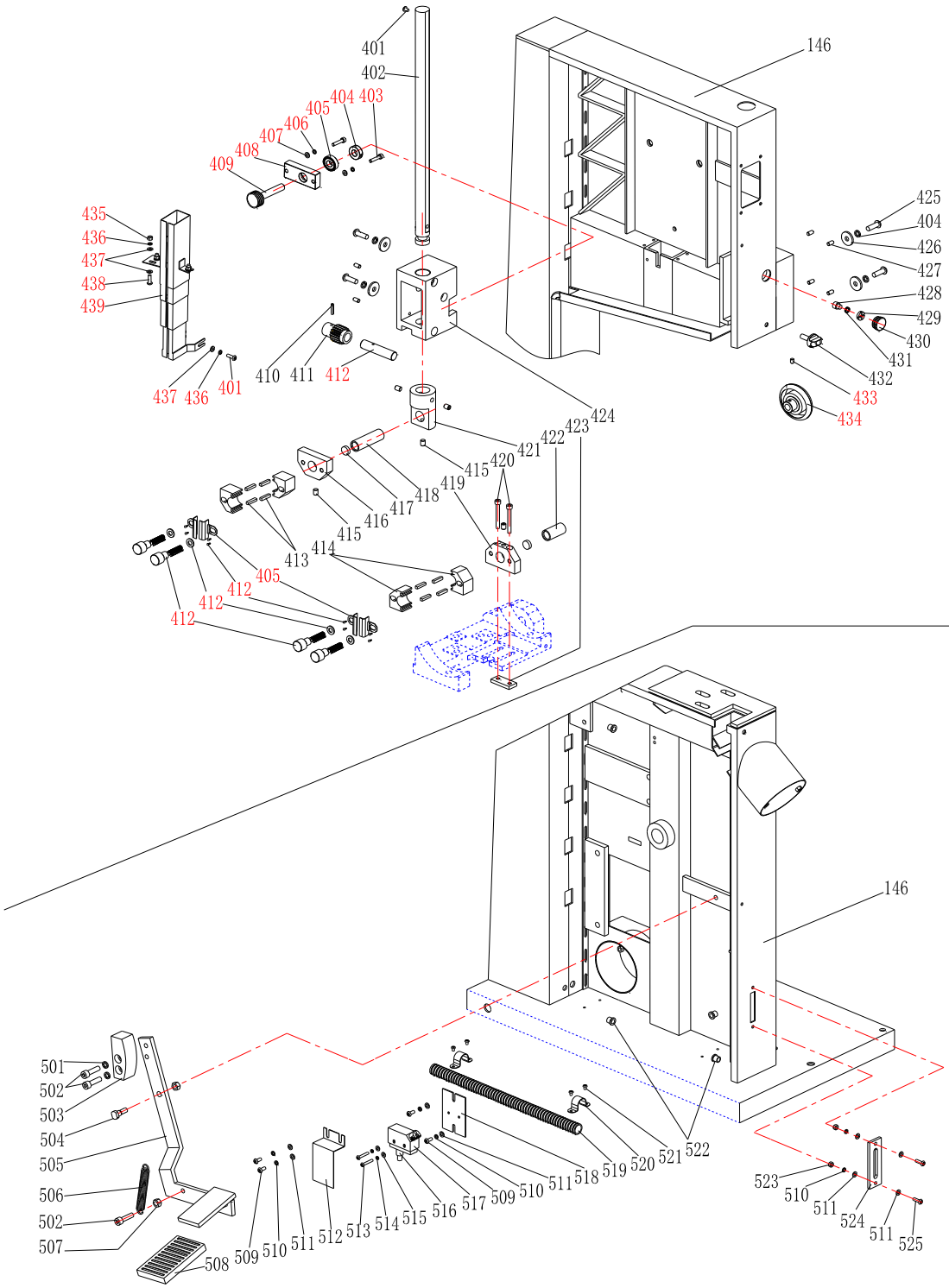
ASSEMBLY DRAWING



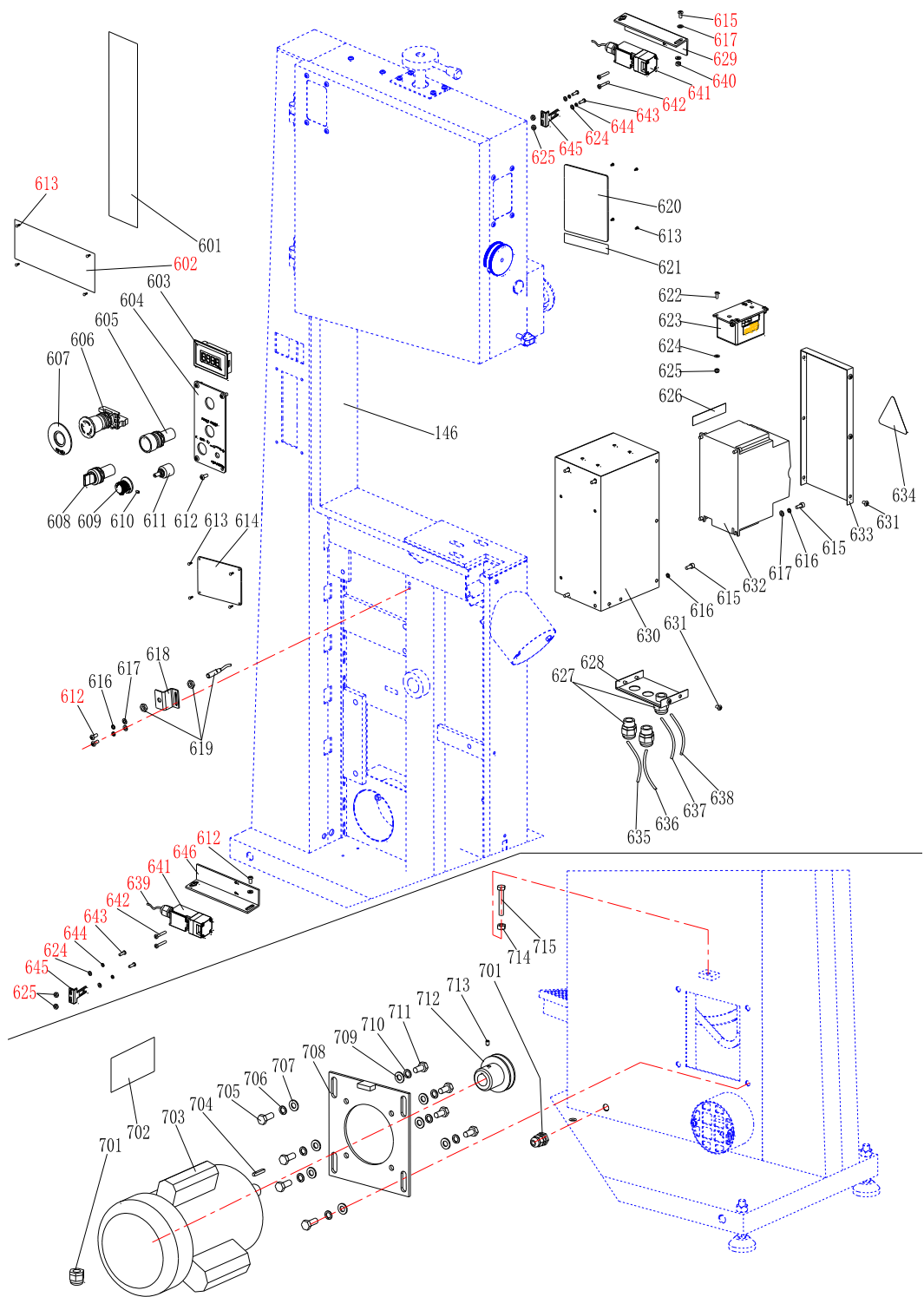
ASSEMBLY DRAWING



ASSEMBLY DRAWING



ASSEMBLY DRAWING



Parts List

NO.	Description	QTY	NO.	Description	QTY
101	Cap Screw M5×12	98	136	Flat washer 8	2
102	Hex Socket Cap Screw M6×12	24	137	Spring washer 8	2
103	Hinge	4	138	Cap Screw M8×16	2
104	Upper Door	1	139	Brush	2
105	Shockproof soft article	1	140	Lock Nut M4	1
106	Sight glass	2	141	Flat washer 4	1
107	Flat washer 5	14	142	Shockproof soft article	1
108	Lock Nut M5	10	143	Lock Nut M6	1
109	Blade Quick Release Label	1	144	Cap Screw M4×10	1
110	Adjusting Nut	1	145	Cover	1
111	Knob M8×35	1	146	Saw Frame	1
112	Lock Button	2	201	Spring Bracket	1
113	Cap Screw 6.5×12	2	202	Tensioning washer	2
114	Blade Guide Label	1	203	Tighten spring	1
115	Cap Screw M5×10	1	204	Tensioning washer	1
116	Position Indicator	1	205	Spring Bracket	1
117	Hex Cap Bolt M6×25	1	206	Top plate	1
118	Lock Nut M6	3	207	Flat washer 5	4
119	Support Plate	1	208	Spring washer 5	4
120	Lock Nut M8	1	209	Cap Screw M5×10	4
121	washer 8	2	210	Knob	1
122	Dust Guard	2	211	Handle	1
123	Flat washer 6	4	212	Gasket	1
124	Spring washer 6	4	213	Cam Shaft	1
125	Cap Screw M6×16	4	214	Set Screw M8×10	1
126	Lock Nut M12	4	215	Support Gasket	1
127	Anchor bolt M12×60	4	216	Spring washer 8	5
128	Cap Screw M5×16	2	217	Cap Screw M8×30	3
129	Spring washer 5	2	218	Lock Nut M12	2
130	Tool Bracket	1	219	Spring washer 12	2
131	Cap Screw M6×12	2	220	Flat washer 12	2
132	Tighten Indicator	1	221	Lock Nut M12	2
133	Brush Plate	2	222	Lock Nut M10	4
134	Flat washer 3	4	223	Square Screw	2
135	Screw 2.9×13	4	224	Square Shaft	1

Parts List

NO.	Description	QTY	NO.	Description	QTY
225	Set Screw M10×12	1	315	Fence	1
226	Shaft Bracket	1	316	Cushion	1
227	Guide Bar	2	317	Work Table	1
228	Rubber Belt	2	318	Hex Socket Cap Screw M4×20	1
229	Bracket	1	319	Set Screw M4×5	4
230	Flat washer 8	2	320	Insert	1
231	Cap Screw M8×16	2	321	Spring sheet	1
232	Shaft	1	322	Spring	2
233	Set Screw M6×8	1	323	Flat washer 4	4
234	Hand wheel	1	324	Lock Nut M4	1
235	Triangle Belt	1	325	Lock Nut M10	1
236	driving shaft	1	326	Flat washer 10	10
237	driven shaft	1	327	Handle M10×25	1
238	Bearing	4	328	Degree Indicator	1
239	Upper fly-wheel	1	329	Cam Trunion	1
240	Magnets	1	330	Flat washer 6	14
241	Lower fly-wheel	1	331	Spring washer 6	10
242	Circlip for hole 62	2	332	Cap Screw M6×20	7
243	Circlip for shaft 30	2	333	Trunion Body	1
244	plain thick washer	1	334	Locking Screw	2
245	Cap Screw M8×30	1	335	Handle M10×20	2
301	Cap Screw M8×25	2	336	Gas spring bracket 1	1
302	Spring washer 8	5	337	Cap Screw M6×16	2
303	Hexagonal rod bolt	1	338	Pin 6×22	2
304	Sliding Block	1	339	Gas spring	1
305	Lock Block	1	340	R Pin 1.5×6.5×23	2
306	Rail Bar	1	341	Lock Nut M6	2
307	Bolt	2	342	Cap Screw M6×25	1
308	Lock Nut M8	7	343	Hex Cap Bolt M10×60	3
309	Flat washer 8	6	344	Shield	1
310	Cap Screw M5×16	2	345	Cap Screw	2
311	Spring washer 5	4	346	Handle	1
312	Flat washer 5	4	347	Gas spring bracket 2	1
313	Ruler Body	1	348	Cap Screw M8×16	2
314	Ruler	1	349	Set Screw M10×30	2

Parts List

NO.	Description	QTY	NO.	Description	QTY
350	Bearing	1	418	Bar	1
351	Worm	1	419	Guide Block	1
352	Support Frame	1	420	Cap Screw M6×50	2
353	Pin 4×20	1	421	Bracket	1
354	Gear Shaft	1	422	Bar	1
355	Cap Screw M4×8	2	423	Clamping Plate	1
356	Spring washer 4	2	424	Support Block	1
357	Indicator	1	425	Cap Screw M8×25	4
358	Gear	1	426	Flat washer 8	4
359	Cap Screw M6×16	1	427	Set Screw M6×12	6
360	Set Screw M5×8	1	428	Block	1
361	Limit sleeve	1	429	Adjusting Screw	1
362	Set Screw M6×8	1	430	Cap	1
363	Hand wheel	1	431	Spring	1
364	Spring washer 10	3	432	Screw	1
365	Lock Nut M10	3	433	Set Screw M6×8	1
366	Set Screw M5×4	2	434	Hand wheel 12×100	1
367	20° Limited block	1	435	Lock Nut M5	3
401	Cap Screw M5×10	1	436	Spring washer 5	8
402	Rack	1	437	Flat washer 5	5
403	Cap Screw M5×25	2	438	Cap Screw M8×25	3
404	Limit sleeve	1	439	Shield	1
405	Bearing	1	440	Screw	4
406	Spring washer 6	2	441	Flat washer 8	4
407	Flat washer 7	2	442	Rivet	8
408	Fixed plate	1	443	Switch Cover	4
409	Worm	1	501	Flat washer 8	2
410	Pin 4×24	1	502	Cap Screw M8×30	2
411	Gear	1	503	Brake rubber block	1
412	Shaft	1	504	Screw	1
413	Ceramic Bar	8	505	Brake rod	1
414	Position Block	4	506	Spring	1
415	Set Screw M8×10	5	507	Lock Nut M8	2
416	Guide Plate	1	508	The brake holster	1
417	Ceramic Block	2	509	Cap Screw M5×12	4

Parts List

NO.	Description	QTY	NO.	Description	QTY
510	Spring washer 5	6	624	Flat washer 4	4
511	Flat washer 5	8	625	Lock Nut M4	4
512	Travel switch cover	1	626	Frequency converter label	1
513	Cap Screw M4×25	2	627	Cable Connector	3
514	Spring washer 4	2	628	Electric box-3	1
515	Flat washer 4	2	629	Switch Bracket	1
516	Travel switch	1	630	Electric box-1	1
517	Travel switch cover	1	631	Cap Screw M5×16	10
518	Travel switch base	1	632	Frequency converter	1
519	Pipe	1	633	Electric box-2	1
520	Clamping Kit	2	634	High-voltage Label	1
521	Cap Screw M4×8	4	635	Input Cable	1
522	Cable sheath	4	636	Output Cable	1
523	Lock Nut M5	2	637	Control line	1
524	Guard plate	1	638	Displayer line	1
525	Cap Screw M5×16	2	639	Switch Control line	2
601	LOGO	1	640	Lock Nut M5	2
602	HAIWEI LOGO	1	641	Limit switch	2
603	Speed Display	1	642	Cap Screw M4×25	4
604	Button panel	1	643	Cap Screw M4×12	4
605	Reset switch	1	644	Spring washer 4	4
606	Scram button	1	645	Key switch	2
607	Warning label	1	646	Switch Bracket	1
608	Switch	1	701	Cable Connector	2
609	The locator knob	1	702	Motor Labe	1
610	Set Screw M4×6	1	703	Motor	1
611	Locator	1	704	Key	1
612	Cap Screw M5×12	8	705	Hex Cap Bolt M10×25	4
613	Rivet	12	706	Spring washer 10	4
614	Parameter label	1	707	Flat washer 10	4
615	Cap Screw M5×16	2	708	Flange	1
616	Spring washer 5	10	709	Flat washer 8	4
617	Flat washer 5	12	710	Spring washer 8	4
618	Switch Bracket	1	711	Hex Cap Bolt 3/8-16---3/4	4
619	Switch	1	712	Pulley	1
620	Parameter label	1	713	Set Screw M6×8	1
621	Saw blade Parameter label	1	714	Lock Nut M8	1
622	Cap Screw M4×10	4	715	Hex Cap Bolt M8×50	1
623	Speedometer power	1			

ELECTRICAL PRINCIPLE CHART

