

UE-120SV

PORTABLE BAND SAW MACHINE




Study Carefully Before Operating



Features: Manual Cutting or Free Cutting

Specifications

Capacity:

| | | | |
|-----|---|---|---|
| |  |  |  |
| 90° | 120mm | 120x120mm | 100x150mm |
| 45° | 90mm | | 90x95mm |

| | |
|-----------------------|---------------------------|
| Motor | 450W |
| Blade Size | 13 x 0.6 x 1550mm |
| Blade Speed | 25 ~ 75MPM Variable speed |
| Packing Size (L xWxH) | 830 x 370 x 455mm |
| Weight (N.W / G.W) | 23.3 kg / 27 kg |

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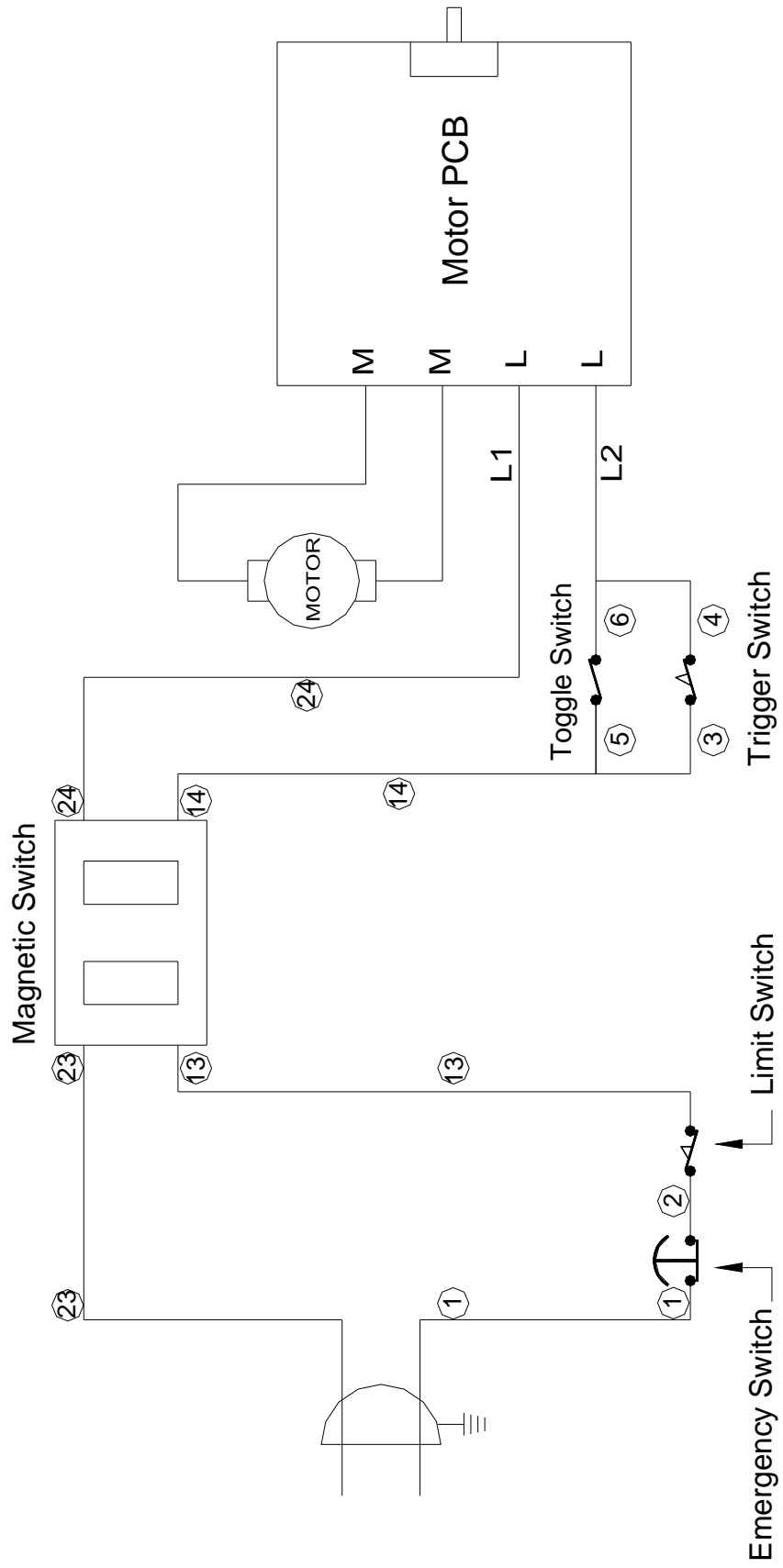
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1. General Safety Rules

WARNING

1. Read and understand instructions of this manual entirely before operating the machine.
2. Always wear approved safety glasses /face shields when using the machine.
3. Make certain the machine is properly grounded.
4. Before machine in operation, remove tie, ring, watch, other jewelry, and roll your sleeves up to above elbows. Remove loose clothing and confine long hair.
5. Keep the floor around this machine clean and free of scrap material, oil and grease.
6. Keep machine guards in place at all times when the machine is in use. If it removed for maintenance purpose, pay extra attention and replace these guards at once.
7. Do not over reach. Keep a balanced stance all the time so that your don't fall lean against blade or some other moving parts.
8. Whenever make any adjustments or maintenance with the machine must unplugged the power source.
9. Use the right tool. Don't force a tool or attachment to do a job that it was not designed for.
10. Replace warning labels if they have become obscured or removed.
11. Make certain the motor switch is in "off" position while connecting the machine into the power supply.
12. Pay your work undivided attention. Looking around, and carrying on a conversation, or "Horse-play" are careless acts which might result in serious injury.
13. Keep visitors a safe distance from the work area.
14. Use recommended accessories, and parts. Improved accessories may be hazardous.
15. From the good habit of checking to see keys and wrenches are removed before turning on this machine.
16. Always keep hands & fingers away from the black when this machine is running.
17. Never hold a material with this saw in the horizontal position. Please be sure always use the vise to clamp it securely.
18. Read and understand warnings that posted on the machine.
19. Always provide necessary support for long and heavy material.
20. Use a sharp blade and always keep machine clean for a best and safest performance.
21. Failure to comply with any of these warnings may cause serious injury.

Electrical Schematic





BEFORE CUTTING

Unhook the lock chain (A) in Fig.1 to release this saw. After service, must replace the chain, and hook it properly for your safety and carry. Failure to comply with the warning could result in personal injury and machine damage.

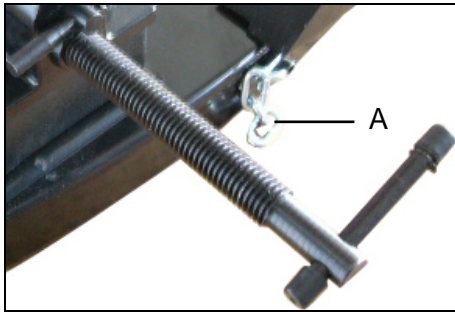


Fig. 1

2. The Quick Vise and Work Set Up

Usage of the Quick Vise

Newly designed and improved "Quick Action" vise is mounted on the machine. The quick vise devices & one handle simply solve all the troubles you have met in the past. Follow the easy steps as below. You'll thank for the design. We made for your convenience.

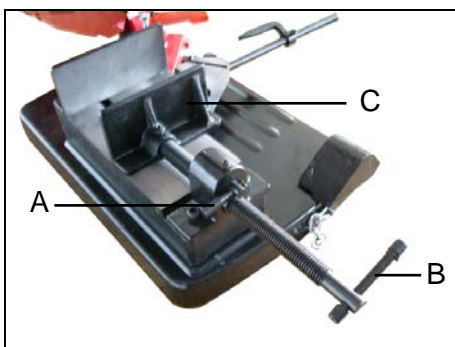


Fig. 2

1. Swivel the handle (A) to the left side in Fig.2 then you can move the vise forward and backward with ease by holding the handle (B) in Fig.2 at the left end of base.
2. Push the vise jaw (C) in Fig.2 toward the work, make it as close as possible against the other vise jaw which is fixed.

3. Swivel the handle (A) to the right side.
4. Turn the handle (B) in Fig.2 clock-wise to make sure the work is well located. During operation, you shall find it more convenient & more powerful to fulfill the clamp job than any of traditional ones could offer.

CAUTION !

NEVER OPERATE SAW WITHOUT BLADE GUARDS IN PLACE.

Work Set Up

1. Raise saw head to 45 degree and position it by pushing pin D in Fig.3.
2. Open vise to accept the piece to be cut by pulling the hand lever at the end of the base.
3. Place work piece on saw bed if the piece is long, support the end.

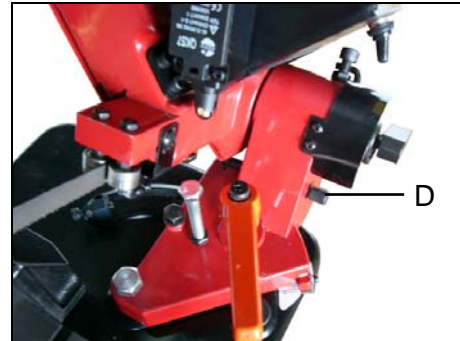


Fig. 3

3. Special Safety Rules for Metal Saw



WARNING: For your own safety, do not operate your metal saw until it is completely assembled and installed according to the instructions...and until you have read and understood the following.

Before Using the Saw

1. Assembly and alignment.
2. Learn the function and proper use of:
 - A. The on-off start switch, trigger switch, blade speed knob and emergency button.
 - B. The lower blade guards.
 - C. The arbors lock and handle latch.
 - D. The bevel clamp, fence clamps, and metal lock handle.
3. Read and understand all safety instructions and operating procedures throughout the manual.
4. Read the warning labels on the metal saw.


Before Each Use

1. Inspect your saw. If any part of this metal saw is missing, or bent, or has failed in any way, or any electrical parts do not work properly, turn the saw off and unplug the saw. Replace damaged, missing, or failed parts before using the saw again.
 2. Plan your work to protect your eyes, hands, face and ears.
 - A. Wear safety goggles (not glasses) that comply with DIN 58214 (show on package). Using any power tool can result in foreign objects being thrown into the eyes, which can result in permanent eye damage. Goggles are available at stores. Use of glasses or use of goggles not in compliance with DIN 58214 could result in severe injury from breakage of the eye protection.
 - B. For dusty operations, wear a face shield along with safety goggles.
 - C. To avoid injury from jams, slips or thrown piece:
 - It is important to choose the right blade for the material and the type of cutting you plan to do. This saw can be used to cut steel, iron, brass, aluminum, wood, plastic and so on.
 - Make sure the direction of rotation arrow on the blade matches the direction arrow on the saw. The blade teeth should always point downward at the front of the saw.
- Make sure the blade is sharp, undamaged and properly aligned. With the saw unplugged, push the power-head all the way down. Head spin the blade and check for clearance. Tilt the power-head to 45-degree level and repeat the check. If the blade hits anything, make the adjustments shown in the Maintaining Maximum Cutting Capacity section.
 - Make sure the blade and arbor collars are clean.
 - Make sure all clamps and locks are tight and there is no excessive play in any parts.
 - Never cut freehand:
 - a. Brace your work piece solidly against the fence and table top so it will not rock or twist during the cut. Make sure no debris is caught beneath the work piece.
 - b. Make sure no gaps between the work piece, fence and table will let the work piece shift after it is cut in two.
 - c. Use jigs, fixture or a different tool for unstable work pieces.
 - Never cut more than one work piece at a time.
 - Make sure the cut-off piece can move sideways after it is cut off. Otherwise, it could get wedged against the blade and thrown violently.
 - Make sure bystanders are clear of the tool and work piece. Keep them clear of the area behind the saw where debris will be thrown.
 - Never turn your metal saw "ON" before clearing everything except the work piece and related support devices off the table.
 - D. To avoid risk of hearing damage, wear ear plugs or muffs during extended period of operation.
 - E. To avoid being suddenly pulled into the blade:
 - Do not wear gloves.
 - Remove all jewelry and loose clothing.


- Tie back long hair.
 - Roll long sleeves above the elbow.
- F. To avoid injury from accidental starting, always unplug saw before disconnecting the guard, installing or removing any blade, accessory or attachment, or making any adjustment.
- G. To avoid an electrical shock, make sure your fingers do not touch the metal prongs on the plug when inserting or removing the plug to or from a live outlet.
- H. Never put lubricants on the blade while it is spinning.
- I. To avoid burns or other fire damage, never use the saw near flammable liquids, vapors or gases.
- J. To avoid injury from unsafe accessories use only accessories shown on the recommended accessories list in this manual.

4. Let the blade reach full speed before cutting.
5. Feed the saw into the work piece only fast enough to let the blade cut without bogging down or binding.
6. Before freeing jammed material, turn the switch off and unplug the saw. Wait for all moving parts to stop.
7. After finishing a cut, keep holding the power head down, release the switch, and wait for all moving parts to stop before moving your hands.

Whenever Saw is Running

 **WARNING:** Do not allow familiarity (gained from frequent use of your metal saw) to cause a careless mistake. Always remember that a careless fraction of a second is enough to cause a severe injury.

1. Before actually cutting with the saw, let it run for a while. If your saw makes an unfamiliar noise or if it vibrates excessively, stop immediately. Turn the saw off. Unplug the saw. Do not restart until finding and correcting the problem.
2. Never confine the piece being cut out. Never hold it, clamp it, touch it, or use length stops against it. It must be free to move sideways. If confined, it could get wedged against the blade and thrown violently.
3. Avoid awkward hand positions where a sudden slip could cause a hand to move into the blade.

 **WARNING:** Read the following warning labels found on the front of the saw.

DANGER

- Keep hands out of saw blade path.
- Never cut anything freehand.
- Never reach behind or beneath blade.
- To avoid electric shock, do not expose to rain.

DANGER

- Tighten arbor screw and all clamps before turning power on.

4. Power Supply

Motor Specifications

The DC motor is used in this saw as the following specifications:

| | |
|--------------------------|-------------------|
| Maximum capacity (kW) | 0.45 |
| Voltage (V) | 115 / 230 |
| Saw blade speed (MPM) | 25~75 |
| Blade rotating direction | counter-clockwise |
| Weight N.W (kg) | 23.3 |



WARNING: To avoid electrical hazards, fire hazard, or damage to the tool, use proper circuit protection or circuit breaker to avoid shock or fire, if power cord is worn or cut, or damaged in any way, have it replaced immediately.

Noise information according to DIN 45635
 No load under 60 dB
 Working 60-65 Db

Earth

This metal saw is single insulated tool, so the earth system is provided to protect you from being shocked. The appropriate earth system is set up as soon as this machine is plugged into the proper power supply system.

Therefore, the standard power supply system, shall be provided for this machine in order to protect you from the risk of shock.



DANGER: To avoid electric shock

1. Do not change the power cord and plug to another specification not provided by the manufacturer.
2. Do not use in rain or where floor is wet. This tool is intended for indoor residential use only.

Motor Safety Protection



CAUTION: To avoid motor damage, this motor should be blown out or vacuumed frequently to keep sawdust from interfering with normal motor ventilation.

1. Connect this tool with a fuse or circuit breaker. Using the wrong size fuse can damage the motor.
2. If the motor does not start, press the emergency button down immediately. **UNPLUG THE TOOL.** Check the saw blade to make sure it turns freely. If the

blade is free, try to start the motor again.

3. If the motor still does not start that have to check the motor's carbon brushes which can be used 600~800 hours **if carbon brushes has been worn, please change the new one.**
4. If the motor suddenly stalls while cutting wood, press the stop button off, unplug the tool, and free the blade from the wood. Then you may restart the motor and finish the cut.
5. Fuses may "blow" or circuit breakers may trip frequently if:
 - a. Motor is overloaded-overloading can occur if you feed too rapidly or make too many start/stops in a short time.
 - b. Voltage not more than 10% above or below the nameplate voltage can handle normal loads. For heavy loads, however, the voltage (caused by a small size wire in the supply circuit or an overly long supply circuit wire) may drop too low for the motor to operate. Always check the connections, the load and the supply circuit whenever motor does not work well. Check wire sizes and length with the Wire Size Chart below.
6. Most motor troubles may be trace to loose or incorrect connections, overload, low voltage (such as small size wire in the supply circuit) or to overly long supply circuit wire. Always check the connections, the load and the supply circuit whenever motor doesn't work well. Check wire size and length with the Wire Size Chart below.

Wire Sizes

The use of any extension cable will cause some loss of power. To keep this to a minimum and to prevent overheating and motor burn-out, use the table below to determine the minimum wire size (lead cross-section) of an extension cable. For circuits that are more than 40m away from the electrical service box, the wire size must be increased proportionately in order to deliver ample voltage to the saw motor.

| Length of the Conductor | Wire Sizes Required For 220V |
|-------------------------|--|
| up to 15m 15-40m | 1.5mm ² 2.5mm ² |

5. Unpacking and Checking Contents

The Metal Saw is shipped complete in one carton. Separate all parts from packing material and check each item with illustration and Make certain all items are accounted for, before discarding any packing material.

WARNING: If any parts are missing, do not try to assemble the metal saw, plug in the power cable or turn the switch on until the missing parts are obtained and installed correctly.

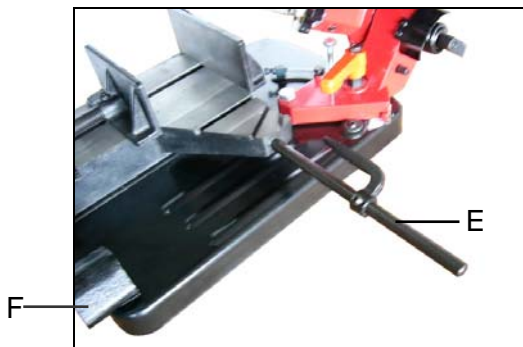


Fig. 4

| Item | Attached Parts | Q'TY |
|------|-----------------------------|------|
| 1 | Stop Rod Assembly (E) Fig.4 | 1set |
| 2 | Weight Block (F) Fig.4 | 1 |
| 3 | Instruction Manual | 1 |

6. Description and Characteristics

1. This 120SV portable band saw is made as light as 23 kg by weight & equipped with an easy carrying handle for your fitness to transport to any worksites.
2. The frame of this machine and base are formed by steel so that body construction becomes stronger and smoother.

3. During operation, the noise level of this machine is about 60 db which is much less than any of the other band saws, and of course, it can present a comfortable working environment.
4. This machine is made ready for the blade tension adjustment by holding the handle to give a little turn for the tension increasing, or decreasing as you wish during the period of blade replacement or machine in operation. Also attached a compression spring for reducing vibration that is from a defective work piece popping while machine is running. It permits the blade to be used much longer.
5. The drive of this machine is through gear transmission that gives steadier, stronger, and smoother cuts superior to any of pulley drive band-saws, and make less trouble after service. Note: If anything unusual happens on your gear transmission system, do not try to fix or restore it personally. Send it back to your dealer for check-up or repair. Failure to comply can result in machine damage.
6. The machine combines miter, and horizontal cutting and is designed for full efficiency and operator convenience in each position.
7. An auto shutoff assures the complete cut work, thus permitting unattended operation.

WARNING
SHUT OFF THE POWER SOURCE ALL THE TIME, BEFORE THIS MACHINE IS IN MAINTENANCE, OPERATION, ADJUSTMENT, OR REPAIRMENT.

WARNING
Disconnect machine from the power source!

No matter when, where, or how. Pay extra attention to the saw during it in transportation, operation, maintenance, or adjustment.

Failure to comply may cause serious injury!

7. Operating

Information Before Operation

Be sure the blade isn't in contact with the work when the motor is started.

Run the motor allow the saw to come to full speed. Begin the cut by letting the head down slowly onto the work.

DO NOT DROP. Let the weight of the saw provide the cutting force or use the trigger switch handle operating by hand. The saw shuts off at the end of the cut automatically.

Operating select toggle switch beneath the control box as Fig.5.

Pull up the toggle switch for auto cutting feed rate by bow and weight block, push down the toggle switch for manual cutting.



Fig. 5

The Emergency Switches

The machine equipped with an emergency switch G (Fig.6). If emergency to push down the emergency switch on the saw arm when in operating situation.



Fig. 6

Auto Cutting

Feed Rate by Bow and Weight Block

The feed rate was preset at the factory for solid metal material cutting.

Cutting proceed as follows:

1. Loading work piece on the vice table and clamp it, be sure to support the material by stand if material is long.
2. Pull up the toggle switch up in (J) Fig.7 to set it in auto-cutting mode.

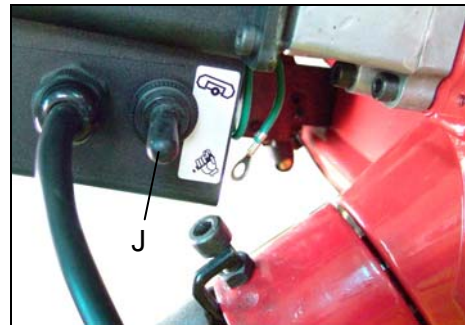


Fig.7

3. Take the weight block out by sliding it to the left side from the base (K) Fig.8.

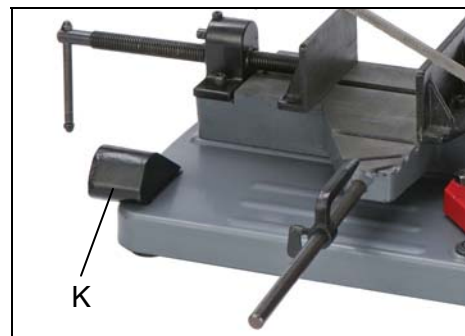


Fig. 8

4. Hang the weight block (K) on the bow in Fig.9.



Fig. 9

5. Press the start button (L) and set the blade speed by turning the speed knob (M) in Fig.10.



Fig. 10

6. Release the saw bow by pulling out the pin (N) in Fig.11 for cutting the work piece.

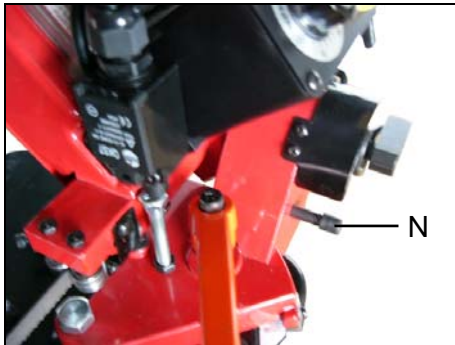


Fig. 11

Manual Cutting Feed Rate by Handle with Trigger Switch

1. Remove the weight block from the bow and put it on the base in Fig.12.



Fig. 12

2. Push down the toggle switch in (O) Fig.13 for cutting material by handle.

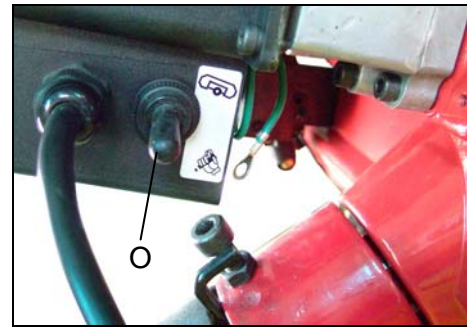


Fig. 13

3. Set the handle position by loosening the fasten nut (P) in Fig.14 to suit operator, tighten the wing nut after adjusting the handle position.



Fig.14

Angle Cutting

The machine uses a swivel miter base for angle cutting from 0~45 degree. On the sawing arm, there is an indicator (Q) in Fig.15 attached. This machine is preset zero degree before leaving the factory. Angle cutting is adjusted as follows.

1. Loosen handle (R) Fig.15 to release the arm.
2. Move this swivel arm forward along the scale to search a right index for the work to be cut.

- If the pointer matches the right index on the scale. Tighten the handle, and a perfect angle cut will be given.

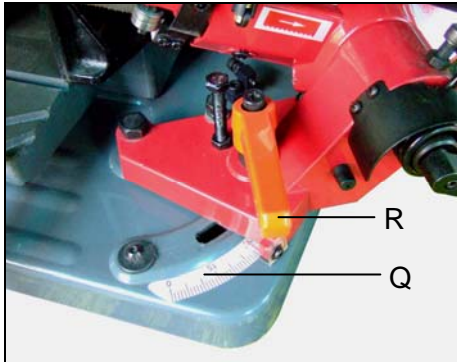


Fig. 15

⚠ WARNING

Disconnect machine from the power source!

No matter when, where, or how. Pay extra attention to the saw during it in transportation, operation, and maintenance. Or adjustment.

Failure to comply may cause serious injury!

Changing Blade

- Raise this saw head up-to approximate 80 degree by lifting up the arm, and push in the position pin S in Fig.16 to support the arm.

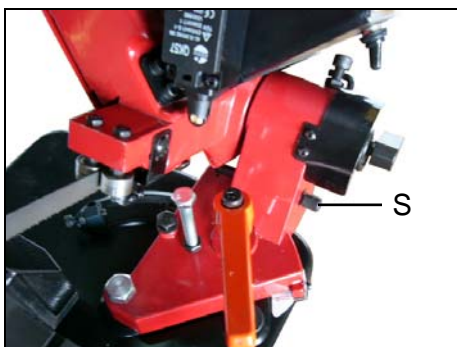


Fig. 16

- Remove the brush T in Fig.17

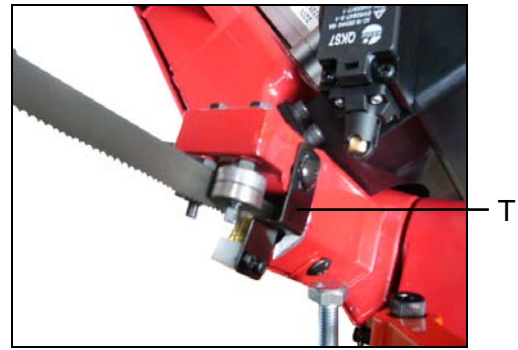


Fig. 17

- Remove the blade guard by loosening two screws (U) in Fig.18 on the saw frame.

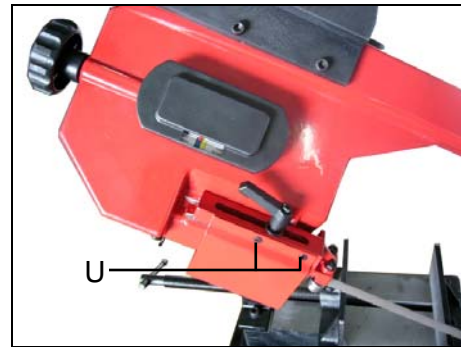


Fig. 18

- Remove blade cover by loosening four screws (V) in Fig.19 on the saw frame.

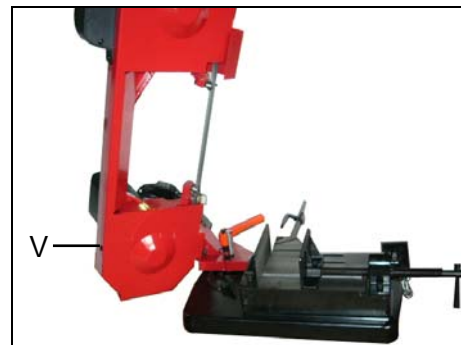


Fig. 19

- Turn the blade tension wheel W in Fig.20, Counter-clockwise to let the blade slip off.



Fig. 20

- Remove blade from both wheels and blade guides bearings in Fig.21.

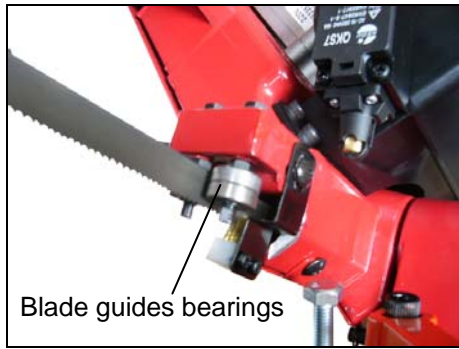


Fig. 21

- Place a new blade on the wheels but not too tight, twist blade slightly and let it slip into between each of guide bearings. Make sure the teeth of blade face down toward the bed.
- Turn the tension wheel clockwise until the tension indicator pointed the green sign in Fig.22

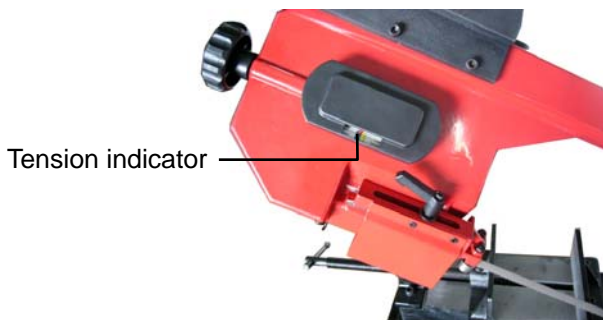


Fig. 22

- Replace blade cover (V) in Fig.19 and guards Fig.18. Replace the blade brush in proper position to touch the blade.
- Start the machine to see that the blade runs properly.

Caution: Be sure that the machine is disconnected from the power source before attempting to service or take any component away!

Magnetic Switch

The band saw is equipped with magnetic switch in Fig.23, which is designed for operating safety. After power failure, the machine has to be restarted by pushing the green "ON" button.

There is a red button which depress it to stop all machine functions. This magnetic switch also connects with the limit switch in Fig.23 at the side of bed, when the work piece is completely cut, both switches will shut off automatically.

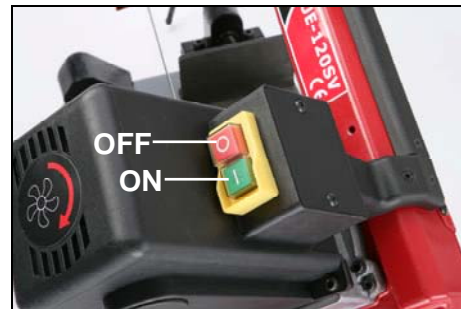


Fig. 23

8. Adjusting

Adjusting Blade Guide

An unbounded handle (A) in Fig.24 is mounted on the unit for freely changing blade guide device position by loosens it counter-clockwise.

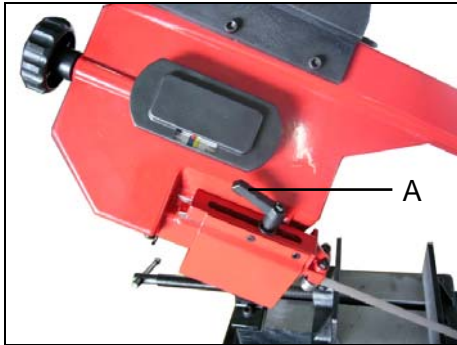


Fig. 24

It's designed for your convenience to adjust blade guide easily and quickly at any time, and under any situation. Adjustment of this blade guide is in accordance with the sizes of work pieces. The one located at the left of the saw head can be adjusted and the other is fixed.

1. If the work is big, loosen the handle (A) in Fig.24. Move the guide toward the work about one inch then tighten the handle.
2. When cutting a small work, move the guide toward the work as close as it can be. Both cuttings will present you satisfactory jobs.



WARNING

Do not make any adjustments, or load, unload work from vise when machine is running!

2. The saw uses fixed ball bearings and can be adjusted ball bearing by eccentric bearing shaft (B) in Fig.24, 25 to keep the tolerance with the blade. For keeping proper cutting, the best way is to replace them every three or six months depending on the frequency of service.
3. Poor cuts can be made because the fixed nuts (A) in Fig.25, 26 are getting loose. Then tighten it properly.

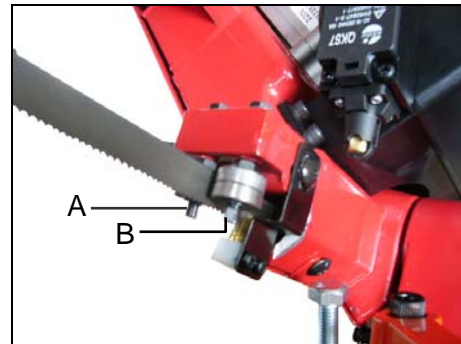


Fig. 25

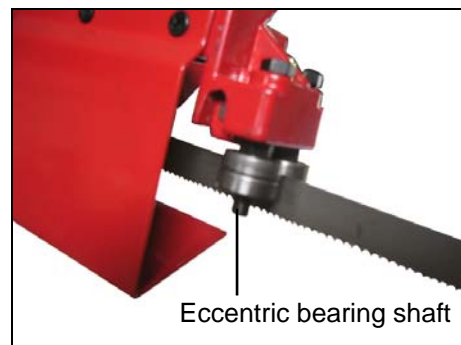


Fig. 26



WARNING

SHUT OFF THE POWER SOURCE BEFORE THIS MACHINE IS IN ADJUSTMENT, MAINTENANCE, OR REPAIRMENT.

Adjusting Poor Cutting

The machine has been adjusted and power-tested with several test cuts before leaving the factory to insure proper cutting. If there is any poor cuts occurred, correct it as follows.

1. Bad cuts due to blade worn, replace a new blade.

BEFORE STARTING

MAKE SURE UNHOOK THE LOCK CHAIN BETWEEN THE SAW ARM AND BED TO RELEASE THE SAW. AFTER SERVICE, REMEMBER IT MUST BE REPLACED BACK FOR SAFETY AND EASY CARRYING.

Adjusting Blade Tracking



Blade tracking adjustment requires running the saw with the back cover open. This adjustment must be completed by qualified persons only! Failure to comply may cause serious injury!

Note: Before making any tracking adjustments, try a new blade. Warped blades will not track.

Blade tracking has been set at the factory and should not require adjustment. If tracking problem occurs. Adjust the machine as follows:

1. Move the saw arm to the vertical position and lock in place.
2. Confirm that blade tension is set properly. To adjust. Open the back cover by loosening the four setscrews.
3. Run the machine and observe the blade. Blade should run on the wheel properly.
4. While observing the tracking on the blade wheel.
5. Disconnect the power from the machine.
6. Open the tension slider cover (A) in Fig.27.

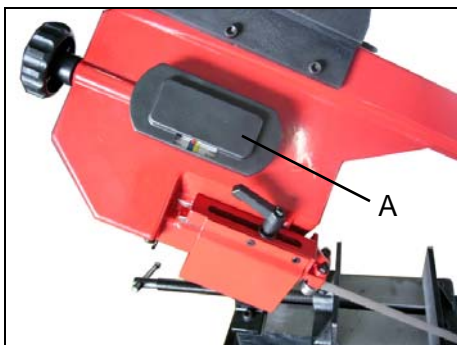


Fig.27

7. Loosen the hex screw (A) in Fig.28 a little by turn it counter clockwise, turn the set screws (B) Fig.28.clockwise about 1/4 revolution to track the blade closer to the wheel. Turn the set- screws (B) in Fig.28

counter-clockwise 1/4 revolution to track blade away from the wheel.

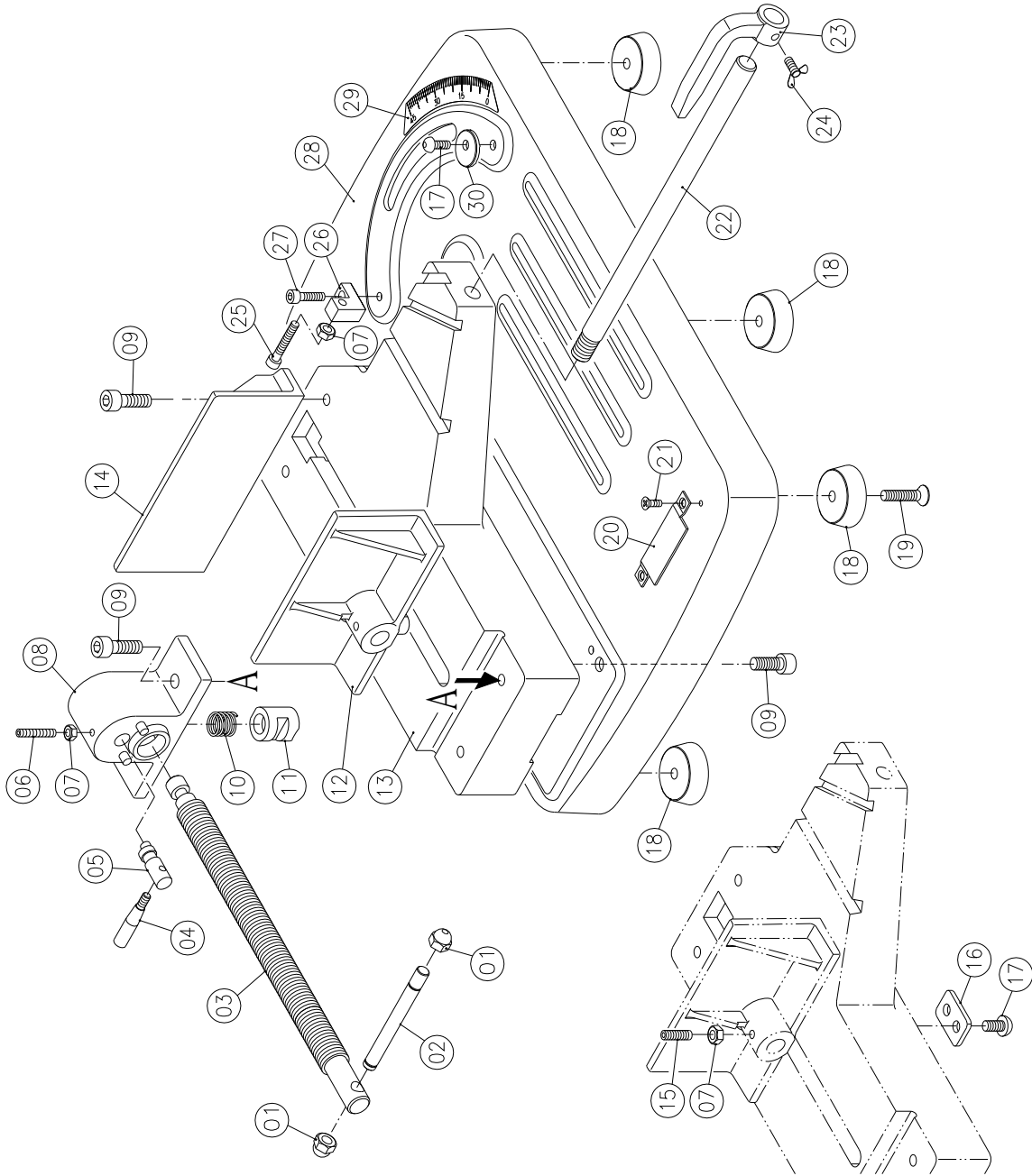
8. Tighten the hex screw A after blade tracking has been finished, and put the cover on.



Fig. 28

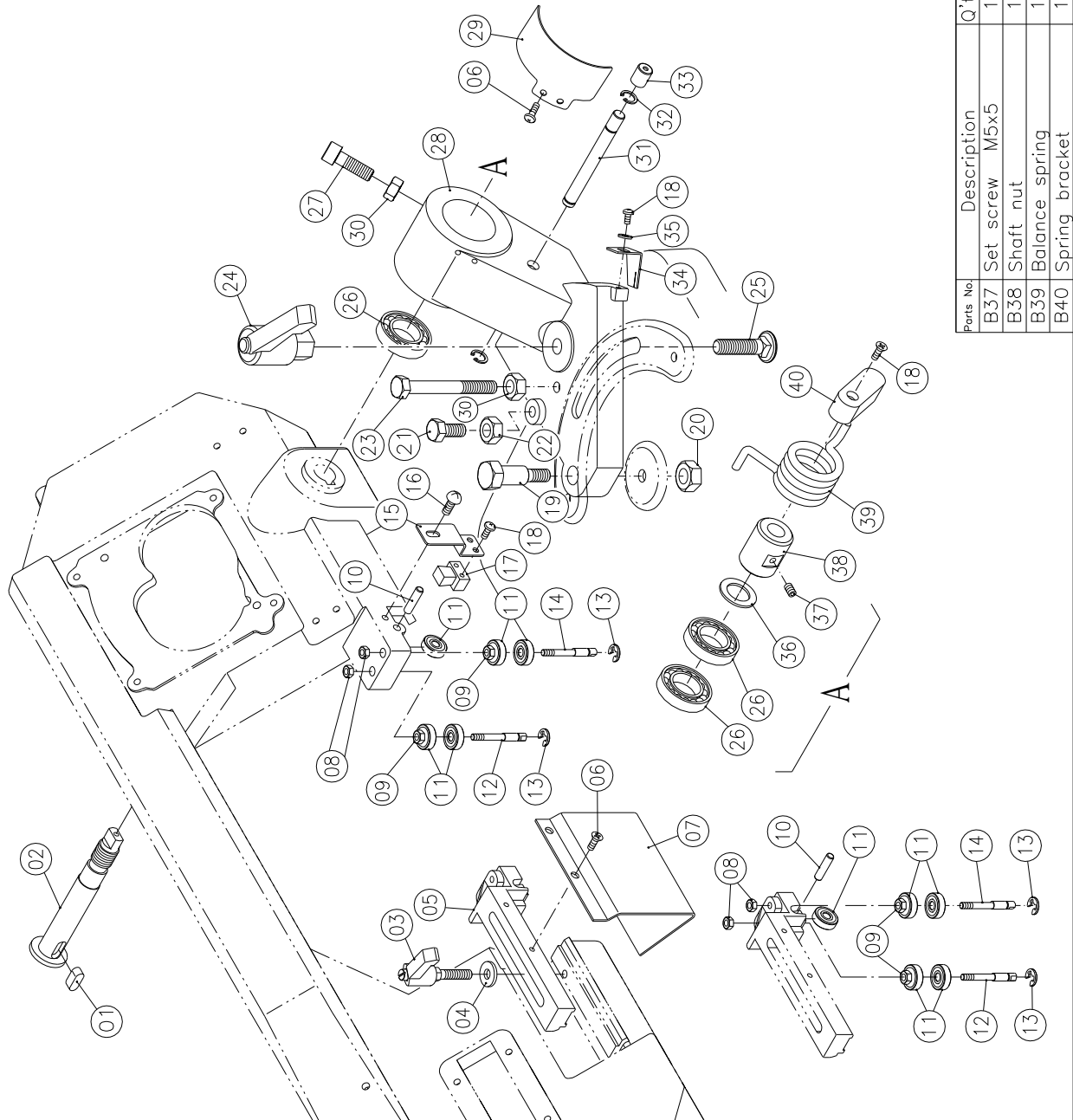
SECTION A

| Part no. | Description | Q'ty |
|----------|--------------------------------|------|
| A01 | End nut M6 | 2 |
| A02 | Hand lever | 1 |
| A03 | Lead screw | 1 |
| A04 | Adjusting handle | 1 |
| A05 | Eccentric shaft | 1 |
| A06 | Set screw M6x20 | 1 |
| A07 | Nut M6 | 3 |
| A08 | Leader screw holder | 1 |
| A09 | Hex. socket screw M8x16 | 8 |
| A10 | Spring | 1 |
| A11 | Half screw nut | 1 |
| A12 | Movable vise | 1 |
| A13 | Table | 1 |
| A14 | Fixed jaw | 1 |
| A15 | Set screw M6x15 | 1 |
| A16 | Set plate | 1 |
| A17 | Button head socket screw M6x10 | 3 |
| A18 | Rubber stand | 4 |
| A19 | Flat head screw M6x25 | 4 |
| A20 | Holder plate | 1 |
| A21 | Flat head screw M4x6 | 2 |
| A22 | Stop rod | 1 |
| A23 | Stop bracket | 1 |
| A24 | Wing screw 1/4x1/2 | 1 |
| A25 | Hex. Socket screw M6x25 | 1 |
| A26 | Angle set block | 1 |
| A27 | Hex. socket screw M6x16 | 1 |
| A28 | Base | 1 |
| A29 | Scale | 1 |
| A30 | Angle set plate | 1 |
| | | |
| | | |



SECTION B

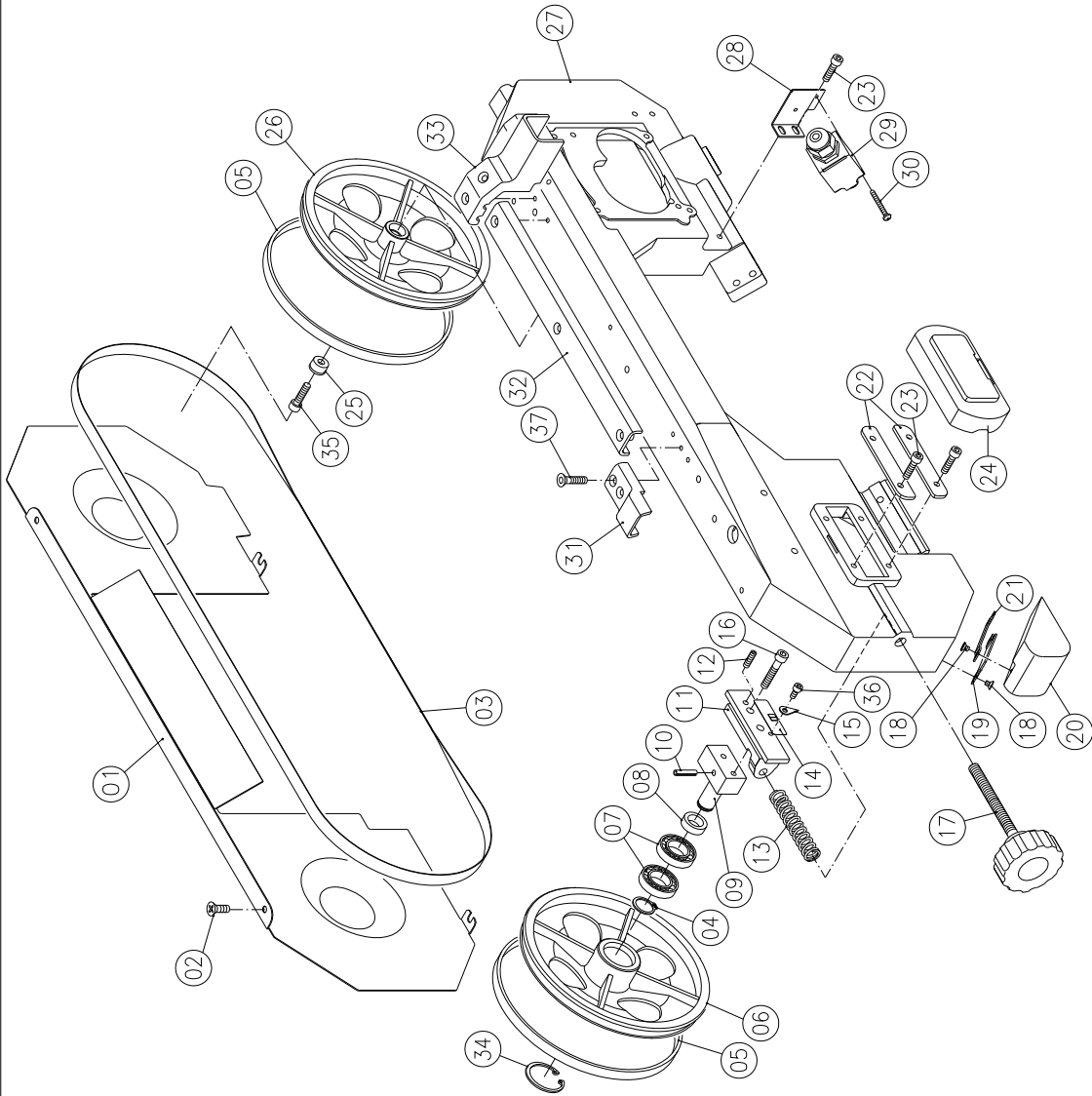
| Part No. | Description | Q'ty |
|----------|----------------------------------|------|
| B01 | Round key 6x6x15 | 1 |
| B02 | Joint shaft | 1 |
| B03 | Lock handle M6x25 | 1 |
| B04 | Flat washer M6x16 | 1 |
| B05 | Left guide bracket | 1 |
| B06 | Round head screw M4x6 | 4 |
| B07 | Front blade guard | 1 |
| B08 | Nut M4 | 4 |
| B09 | Nut M5 | 4 |
| B10 | Bearing Shaft $\phi 5 \times 20$ | 2 |
| B11 | Bearing 625ZZ | 10 |
| B12 | Guide shaft | 2 |
| B13 | E ring E-5 | 4 |
| B14 | Eccentric shaft | 2 |
| B15 | Brush bracket | 1 |
| B16 | Round head screw M5x10 | 1 |
| B17 | Brush | 1 |
| B18 | Round head screw M4x10 | 4 |
| B19 | Rotation shaft | 1 |
| B20 | Nilon nut M8 | 1 |
| B21 | Hex. cap screw M8x8 | 1 |
| B22 | Nut M8x4 | 1 |
| B23 | Hex. cap head screw M8x70 | 1 |
| B24 | Adjusting handle 3/8-16UNC | 1 |
| B25 | Lock screw 3/8x1-1/2 | 1 |
| B26 | Bearing 6202ZZ | 3 |
| B27 | Hex. socket screw M8x25 | 1 |
| B28 | Sweivling Base | 1 |
| B29 | Spring cover | 1 |
| B30 | Nut M8 | 2 |
| B31 | Setting rod | 1 |
| B32 | C ring S8 | 2 |
| B33 | Handle sleeve | 1 |
| B34 | Scale mirror | 1 |
| B35 | Flat washer M4 | 1 |
| B36 | Flat washer 16x25x3 | 1 |

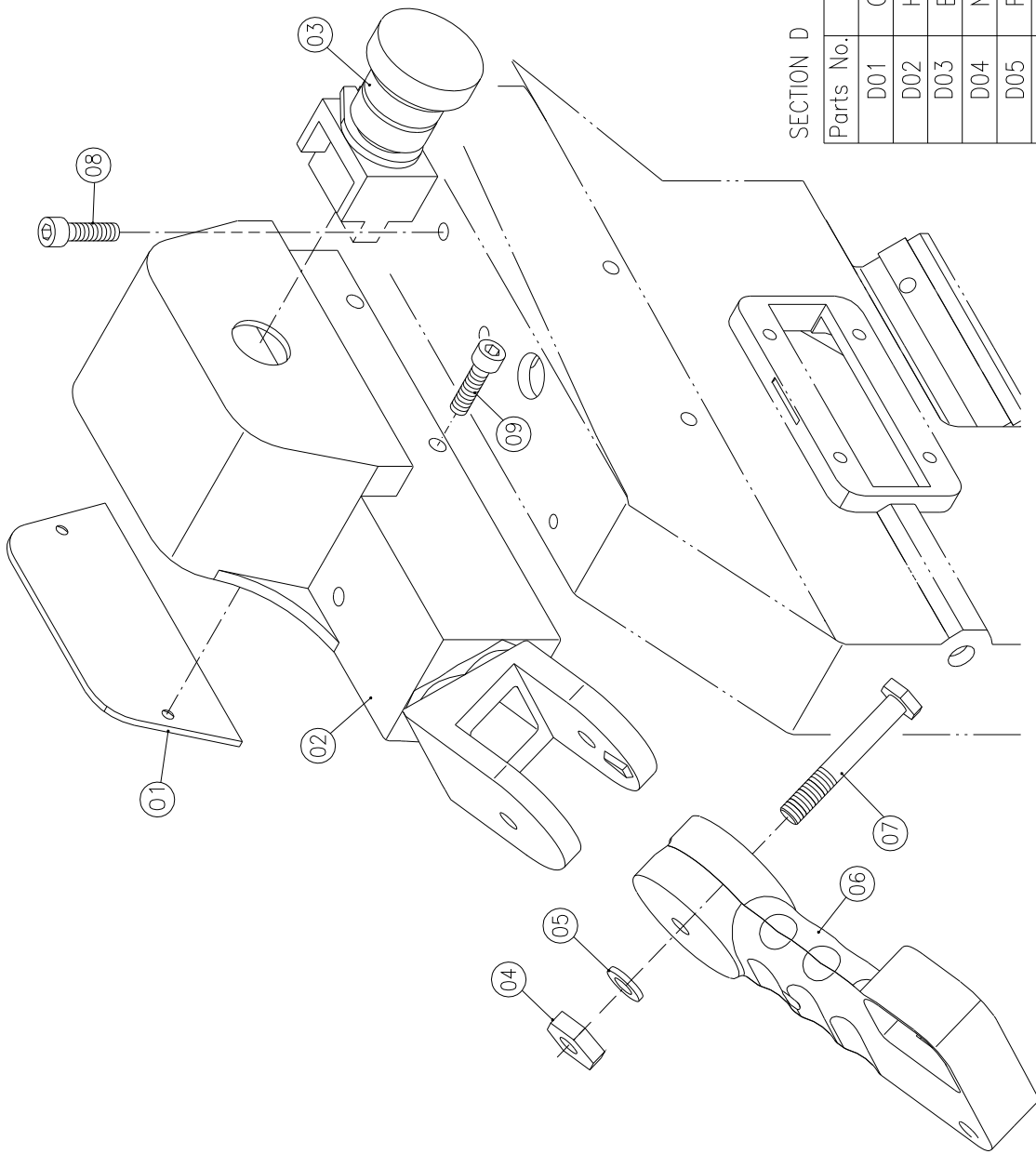


| Parts No | Description | Q'ty |
|----------|----------------|------|
| B37 | Set screw M5x5 | 1 |
| B38 | Shaft nut | 1 |
| B39 | Balance spring | 1 |
| B40 | Spring bracket | 1 |

SECTION C

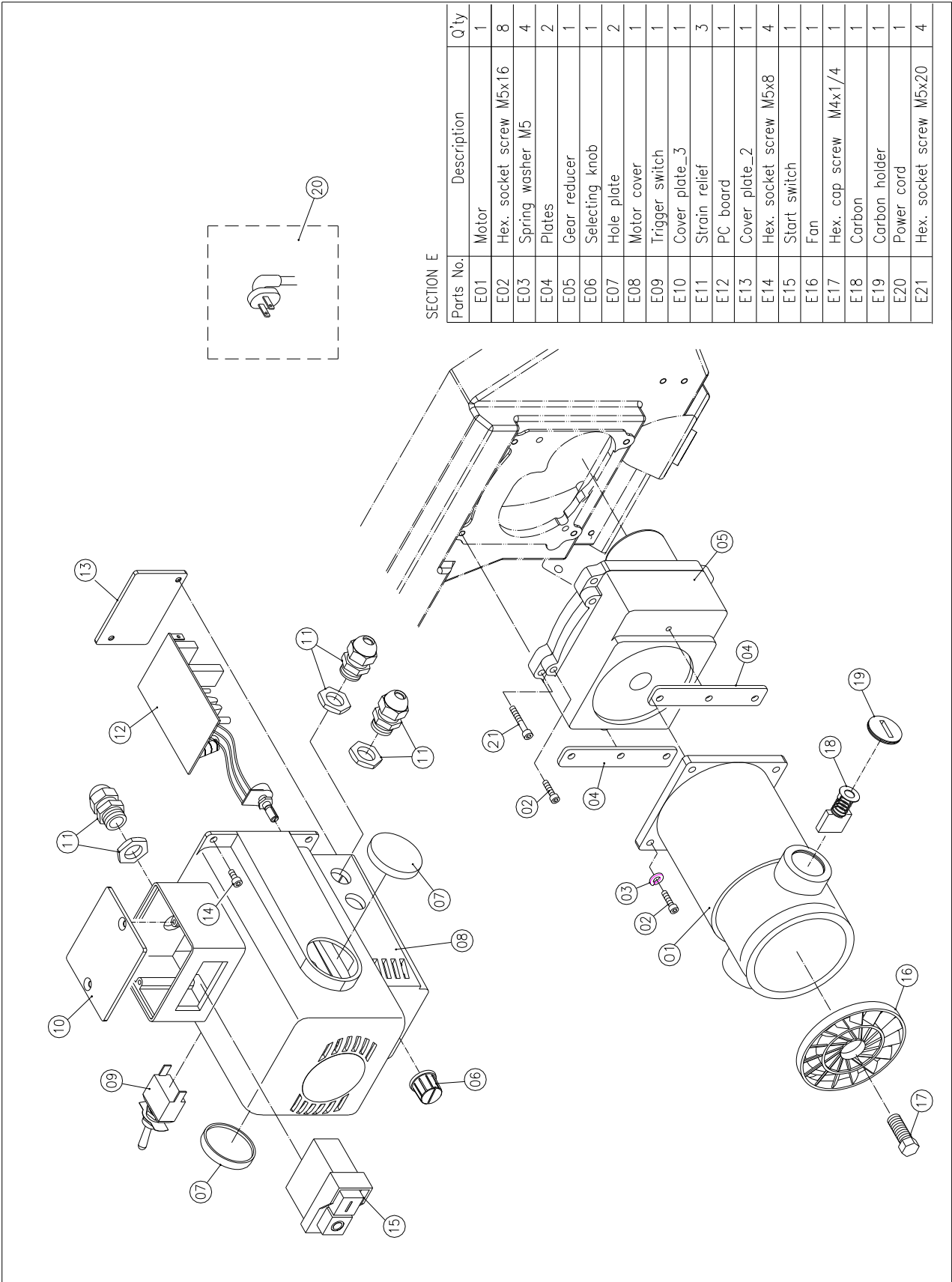
| Parts No. | Description | Q'ty |
|-----------|-------------------------|------|
| C01 | Blade cover | 1 |
| C02 | Flat head screw M5x8 | 4 |
| C03 | Blade | 1 |
| C04 | C ring S15 | 1 |
| C05 | Rubber ring | 2 |
| C06 | Blade wheel (Left) | 1 |
| C07 | Bearing 6202Z | 2 |
| C08 | Spacer | 1 |
| C09 | Wheel shaft | 1 |
| C10 | Spring pin 5x7/8" | 1 |
| C11 | Slide block | 1 |
| C12 | Set screw M16x20 | 1 |
| C13 | Extension spring | 1 |
| C14 | Tension stick | 1 |
| C15 | Pointer | 1 |
| C16 | Hex. socket screw M6x30 | 2 |
| C17 | Tension bolt 3/8x100 | 1 |
| C18 | Flat screw M4x6 | 4 |
| C19 | Holder plate (big) | 1 |
| C20 | Gravity block | 1 |
| C21 | Holder plate (small) | 1 |
| C22 | Guide plate | 2 |
| C23 | Hex. socket screw M5x16 | 6 |
| C24 | Slider cover | 1 |
| C25 | Spacer | 1 |
| C26 | Drive wheel | 1 |
| C27 | Saw head | 1 |
| C28 | Switch bracket | 1 |
| C29 | Limit switch QKS-7 | 1 |
| C30 | Flat head screw M4x30 | 2 |
| C31 | Wire cover (left) | 1 |
| C32 | Wire cover | 1 |
| C33 | Wire cover (right) | 1 |
| C34 | C ring S35 | 1 |
| C35 | Hex. socket screw M6x20 | 1 |
| C36 | Hex socket screw M4x6 | 1 |
| C37 | Flat head screw M5x20 | 7 |





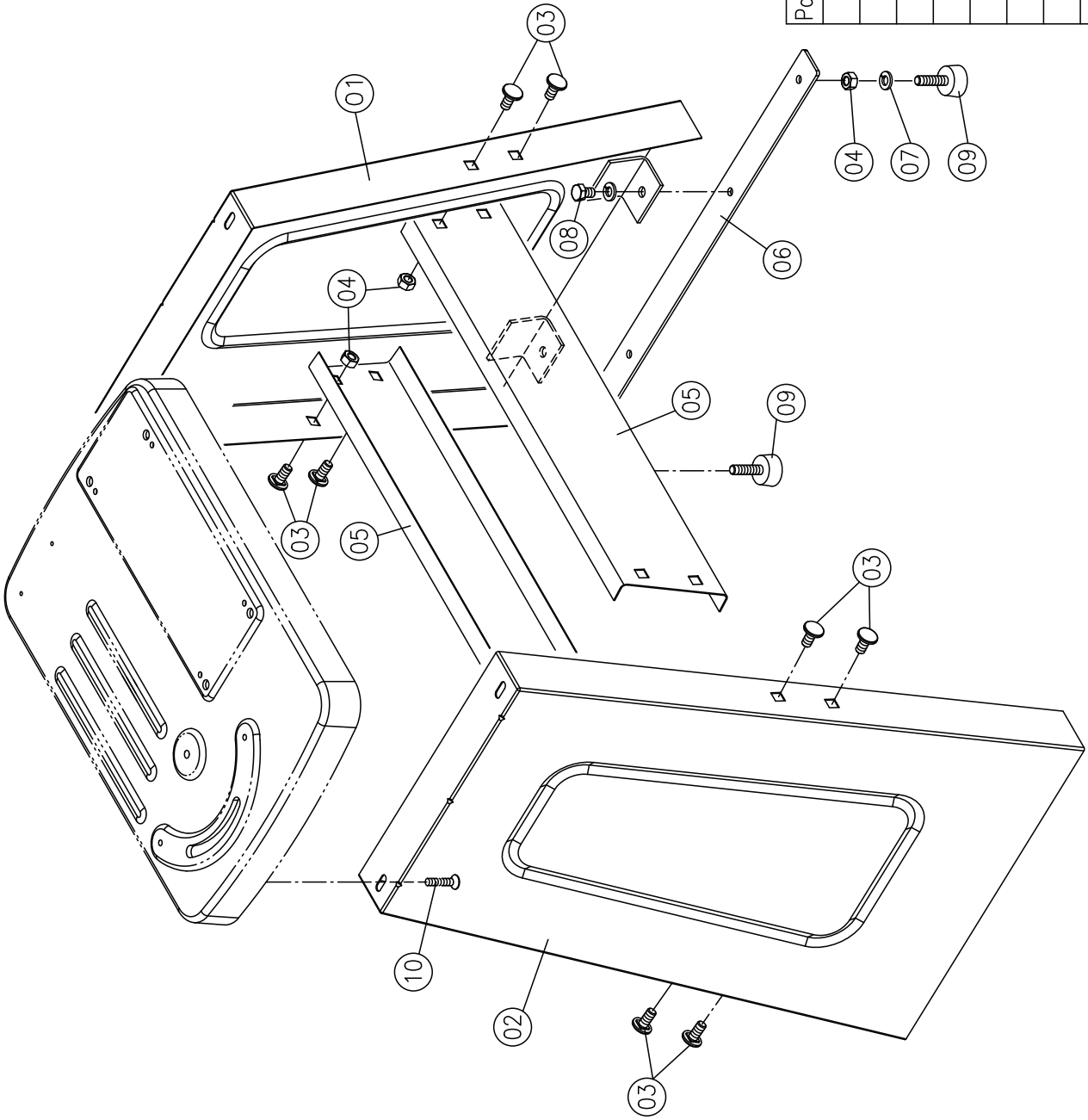
SECTION D

| Parts No. | Description | Q'ty |
|-----------|-------------------------|------|
| D01 | Cover plate | 1 |
| D02 | Handle seat | 1 |
| D03 | Emergency switch HY-57B | 1 |
| D04 | NUT M8 | 1 |
| D05 | Flat washer M8x30 | 1 |
| D06 | Trigger switch | 1 |
| D07 | Hex. cap screw M8x60 | 1 |
| D08 | Round head screw M6x10 | 1 |
| D09 | Hex. socket screw M6x20 | 2 |



SECTION E

| Parts No. | Description | Qty |
|-----------|-------------------------|-----|
| E01 | Motor | 1 |
| E02 | Hex. socket screw M5x16 | 8 |
| E03 | Spring washer M5 | 4 |
| E04 | Plates | 2 |
| E05 | Gear reducer | 1 |
| E06 | Selecting knob | 1 |
| E07 | Hole plate | 2 |
| E08 | Motor cover | 1 |
| E09 | Trigger switch | 1 |
| E10 | Cover plate_3 | 1 |
| E11 | Strain relief | 3 |
| E12 | PC board | 1 |
| E13 | Cover plate_2 | 1 |
| E14 | Hex. socket screw M5x8 | 4 |
| E15 | Start switch | 1 |
| E16 | Fan | 1 |
| E17 | Hex. cap screw M4x1/4 | 1 |
| E18 | Carbon | 1 |
| E19 | Carbon holder | 1 |
| E20 | Power cord | 1 |
| E21 | Hex. socket screw M5x20 | 4 |



| Parts No. | Description | Q'ty |
|-----------|------------------------------------|------|
| 01 | Right stand | 1 |
| 02 | Left stand | 1 |
| 03 | Screw 5/16x3/8 | 8 |
| 04 | NUT 5/16 | 10 |
| 05 | Cross bracket | 2 |
| 06 | Support bracket | 1 |
| 07 | Flat washer 5/16x1.2x16 | 12 |
| 08 | Hex cap screw with washer 5/16x1/4 | 2 |
| 09 | Rubber pad | 2 |
| 10 | Flat head screw M6x25 | 4 |