

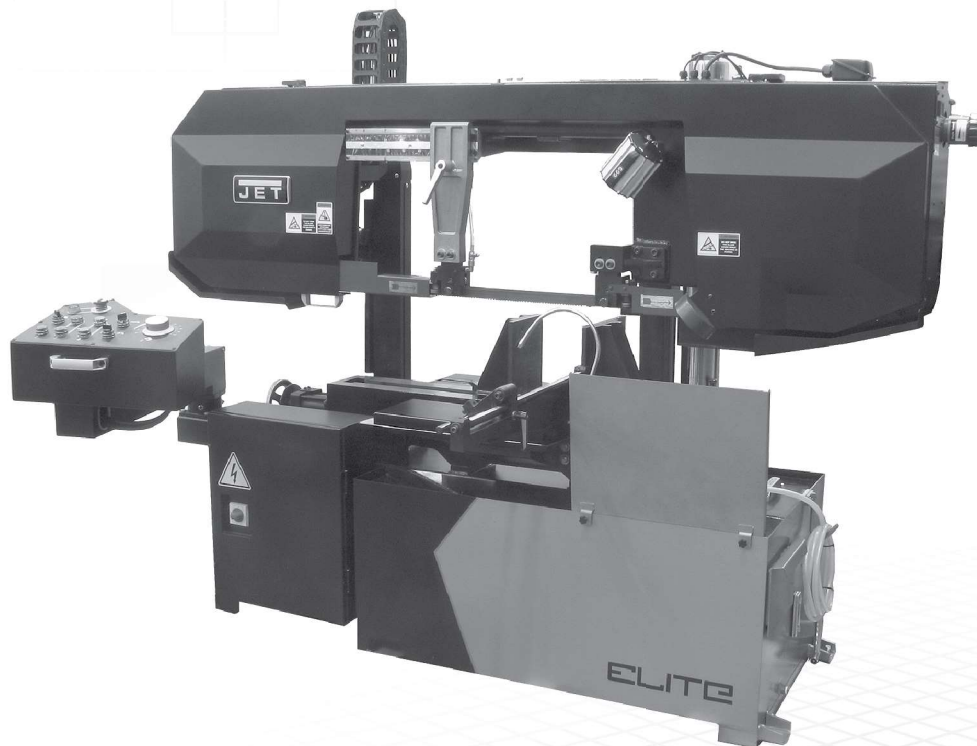
**ELITE**

HIGH PERFORMANCE MACHINERY

Operating Instructions and Parts Manual

Horizontal Band Saw, 14" Semi-Auto Dual-Column

Model ECB-1422V



**JET®**

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## 1.0 WARRANTY AND SERVICE

JET® warrants every product it sells against manufacturers' defects. If one of our tools needs service or repair, please contact Technical Service by calling 1-855-336-4032, 8AM to 5PM CST, Monday through Friday.

### WARRANTY PERIOD

The general warranty lasts for the time period specified in the literature included with your product or on the official JET branded website, [jettools.com](http://jettools.com).



### WHO IS COVERED?

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

### WHAT IS COVERED?

This warranty covers any defects in workmanship or materials subject to the limitations stated below. This warranty does not cover failures due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair, alterations or lack of maintenance.

### HOW TO GET TECHNICAL SUPPORT

Please contact Technical Service by calling 1-855-336-4032. Please note that you will be asked to provide proof of initial purchase when calling. If a product requires further inspection, the Technical Service representative will explain and assist with any additional action needed. JET has Authorized Service Centers located throughout the United States. For the name of an Authorized Service Center in your area call 1-855-336-4032 or use the Service Center Locator on the JET website.

### **MORE INFORMATION**

JET® is constantly adding new products. For complete, up-to-date product information, check with your local distributor or visit the JET website, [jettools.com](http://jettools.com).

### **HOW STATE LAW APPLIES**

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

### **LIMITATIONS ON THIS WARRANTY**

JET LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

JET SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

JET sells through distributors only. The specifications listed in JET printed materials and on official JET website are given as general information and are not binding. JET reserves the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever. JET® branded products are not sold in Canada by JPW Industries, Inc.

NOTE: JET is a division of JPW Industries, Inc. References in this document to JET also apply to JPW Industries, Inc., or any of its successors in interest to the JET brand.



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### 3.0 IMPORTANT SAFETY INSTRUCTIONS

#### Warning - To reduce risk of injury:

1. Read and understand the entire owner's manual before attempting assembly or operation.
2. Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
3. Replace the warning labels if they become obscured or removed.
4. This band saw is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a band saw, do not use until proper training and knowledge have been obtained.
5. Do not use this band saw for other than its intended use. If used for other purposes, JET®, disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
6. Always wear approved safety glasses/face shields while using this band saw. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses; they are NOT safety glasses.
7. Wear proper apparel: Do not wear loose clothing, necktie, rings, bracelets or other jewelry which may get caught in moving parts. Non-slip footwear or anti-skid floor strips are recommended. Wear protective hair covering to contain long hair.
8. Wear ear protectors (plugs or muffs) during extended periods of operation.
9. Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.
10. Make certain the switch is in the OFF position before connecting the machine to the power supply.
11. Make certain the machine is properly grounded.
12. Make all machine adjustments or maintenance with the machine unplugged from the power source.
13. Remove adjusting keys and wrenches. Form a habit of checking to see that keys and adjusting wrenches are removed from the machine before turning it on.
14. Avoid contact with coolant, especially guarding your eyes.
15. Keep hands and fingers away from the blade when the machine is running.
16. Never hand hold the material. Always use the vise and clamp it securely.
17. Always provide adequate support for long and heavy material.
18. Keep safety guards in place at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately after maintenance is complete.
19. Check damaged parts. Before further use of the machine, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
20. Do not use power tools in damp/wet locations or other dangerous environments. Do not expose them to rain. Keep work area well lighted. Provide for adequate space surrounding work area and non-glare overhead lighting.
21. Keep work area clean. Cluttered areas and benches invite accidents. Keep the floor free of scrap material, oil and grease.
22. Keep visitors a safe distance from the work area. Keep children away. Workshop should be childproof; padlocks, master switches, remove starter keys.
23. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
24. Maintain a balanced stance at all times so that you do not fall or lean against the blade or other moving parts. Do not overreach or use excessive force to perform any machine operation.
25. Use the right tool at the correct speed and feed rate. Do not force a tool or attachment to do a job for which it was not designed. The right tool will do the job better and more safely.
26. Use recommended accessories; improper accessories may be hazardous.
27. Maintain tools with care. Keep blade sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories.



28. Maintain proper adjustment of blade tension, blade guides and thrust bearings.
29. Turn off the machine and disconnect from power before cleaning. Use a brush to remove chips or debris — do not use bare hands.
30. Do not stand on the machine. Serious injury could occur if the machine tips over.
31. Never leave the machine running unattended. Turn the power off and do not leave the machine until it comes to a complete stop.
32. Be sure that the blade is not in contact with the workpiece when the motor is started. The motor shall be started and you should allow the saw to come up to full speed before bringing the saw blade into contact with the workpiece.
33. Adjust left blade guide to just clear workpiece.
34. Do not open blade covers while machine is running.
35. Direction of feed — feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
36. Installation work and electrical wiring must be done by qualified electrician in accordance with all applicable codes and standards.
37. Do not remove jammed pieces until blade has stopped.
38. Do not store combustible materials near or around machine.

**⚠ WARNING:** This product can expose you to chemicals including lead and benzene which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <http://www.p65warnings.ca.gov>.

**⚠ WARNING:** Some dust, fumes and gases created by power sanding, sawing, grinding, drilling, welding and other construction activities contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead based paint
- crystalline silica from bricks, cement and other masonry products
- arsenic and chromium from chemically treated lumber

Your risk of exposure varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area and work with approved safety equipment, such as dust masks that are specifically designed to filter out microscopic particles. For more information go to <http://www.p65warnings.ca.gov/> and <http://www.p65warnings.ca.gov/wood>.

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

**⚠ CAUTION**

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

**⚠ WARNING**

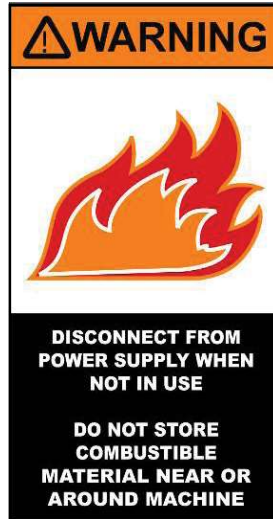
*This means that if precautions are not heeded, it may result in serious or even fatal injury.*

### 3.1 Warning Labels

Replace warning labels if they become obscured or removed.



LM000420.



LM000421



LM000422

### 4.0 INTRODUCTION

This manual is provided by JET® covering the safe operation and maintenance procedures for a JET Model ECB-1422V. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. Your machine has been designed and constructed to provide consistent long-term operation if used in accordance with the instructions set forth in this document.

If there are questions or comments, please contact your local supplier or JET. JET can also be reached at our web site: [www.jettools.com](http://www.jettools.com). Retain this manual for future reference. If the machine transfers ownership, the manual should accompany it.

This manual is not intended to be an exhaustive guide to band saw operation. Consult your supervisor for more detailed instruction.



## 5.0 SPECIFICATIONS

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Model Number              | ECB-1422V                                          |
| Stock Number              | 891160                                             |
| Capacities:               |                                                    |
| Round at 90°              | 14 in. (360 mm)                                    |
| Rectangle at 90°          | 14 x 22 in. (360 x 560 mm)                         |
| Square at 90°             | 14 x 14 in (360 x 360 mm)                          |
| Blade Size                | 1.3 x 0.043 x 192.13 in (34 x 1.1 x 4880 mm)       |
| Blade Wheel Diameter      | 18-1/2 in. (470 mm)                                |
| Blade Wheel Speed         | variable within 75-250 SFPM                        |
| Main motor                | 5HP, 60 Hz, 230/460V, 3PH, 4P, 12.9/6.5A           |
| Oil Pump                  | 1HP 230/460V 3PH 4P 60Hz, 3.3/1.65A                |
| Coolant Pump              | (180mm L) 1/6HP,230/460V,3PH, 2P, 60Hz, 0.67/0.35A |
| Hydraulic Vise Travel     | 1-3/16 in. (30 mm)                                 |
| Gear ratio                | 1:40                                               |
| Bed Height from floor     | 29.21 in. (742 mm)                                 |
| Coolant capacity          | 90 L (23.8 gal)                                    |
| Overall Dimensions        | 93.5 x 25.9 x 72.83 in. (2375x660x1850mm)          |
| Net Weight - approx.      | 2266 lbs. (1030 kg)                                |
| Shipping Weight - approx. | 2508 lbs. (1140 kg)                                |

**NOTE:** Conversion to 460 volt will require additional purchases, and installation of parts by qualified persons only.

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

## 6.0 UNCRATING AND ASSEMBLY

**Note: Read and understand the entire manual before attempting setup or operation.**

1. Finish uncrating the saw and inspect for damage. Should any have occurred, contact your local distributor.
2. Remove all bolts attaching machine to shipping base.
3. Clean all rust protected surfaces with kerosene or a cleaner/degreaser to remove protective coating. Do not use gasoline, paint thinner, or mineral spirits, as these may damage painted surfaces.
4. Lubricate all slideways with SAE 10W oil.

### Shipping contents:

- 1 Band Saw
- 1 Stock Stop Assembly
- 1 Splash Plate
- 1 Test Piece
- 1 Product Manual
- 1 Product Registration Card
- 1 Tool Box Complete (#ECB-1422V-TBC), contains:
  - 1 Adjustable Wrench 12"
  - 1 Set of Open-end Wrenches
  - 1 Set of Hex Wrenches
  - 2 Screwdrivers (cross-point and flat blade)
  - 4 Hex Bolts with Nuts

## 7.0 INSTALLATION

For best performance, the band saw should be located on a solid and level concrete foundation. Allow room for servicing and for moving large stock around the band saw when deciding upon a location for the machine.

1. Lift machine with forklift, using lifting straps that are isolated from the band saw's finished surfaces, levers, knobs, etc.
2. Install the four leveling bolts with lock nuts on both sides of the base as shown in Fig 7-1. Lower machine to the floor.
3. Place a level on the work table surface and check side-to-side and front-to-back. When leveling side-to-side, adjust left side to be approximately 5mm higher than the right side. When leveling front-to-back, adjust back to be approximately 5mm higher than the front.
4. Adjust leveling screws as needed, then tighten nuts.



Fig. 7-1

## 8.0 COOLANT

Cutting fluid or coolant must be supplied by the operator. See sect. 14.4 for information.

## 9.0 ELECTRICAL CONNECTIONS

### **⚠ WARNING**

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

### 9.1 GROUNDING INSTRUCTIONS

The ECB-1422V is prewired for 230V, 3 phase, and can be converted to 460V 3 phase. Confirm that power available at the saw's location matches that for which the saw is wired.

The machine is not provided with an electrical plug; it can be "hardwired" directly to a service panel.

It is recommended that the band saw be connected to a dedicated 20 amp circuit with circuit breaker or time-delay fuse marked "D". **Local codes take precedence over recommendations.**

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

### **⚠ WARNING**

***Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded. Failure to comply may cause serious or fatal injury.***

**Permanently connected tools:** This tool should be connected to a grounded metal permanent wiring system; or to a system having an equipment-grounding conductor. Make sure a disconnect is available for the operator. During hard-wiring of the machine, make sure the fuses have been removed or the breakers have been tripped in the circuit to which the band saw will be connected. **ALWAYS FOLLOW PROPER LOCK-OUT/TAG-OUT PROCEDURES.**

## 9.2 Converting to 460 Volt

### ⚠ WARNING

**Voltage conversion must be done by a qualified electrician.**

The Band Saw is prewired for 230 volt. To change to 460 volt operation, proceed as follows. Additional purchases will be required: see electrical box parts list for any part numbers to order.

1. Open main motor junction box cover, and change leads based on wiring diagram inside cover. This diagram is also shown in Figure 9-1. (Note: In case of discrepancy, diagram inside junction box cover takes precedence.) Reinstall cover.
2. Remove oil pump motor junction box cover, and change incoming leads for oil pump, based on diagram shown in Figure 9-2. Reinstall cover.
3. Remove coolant pump motor junction box cover, and change incoming leads for coolant pump, based on diagram shown in Figure 9-3. Reinstall cover.
4. Open the electrical box.
5. On the transformer, change the wire position from 230V to 460V
6. Replace **main motor** 230V overload relay with the 460V overload relay: Set dial to 7A.
7. Replace **oil pump** 230V overload relay with the 460V overload relay: Set dial to 1.8A.
8. Replace **coolant pump** 230V overload relay with the 460V overload relay: Set dial to 0.35A.
9. On the primary fuse block, replace the two 2A fuses with two 1A fuses.
10. Voltage conversion is now complete.

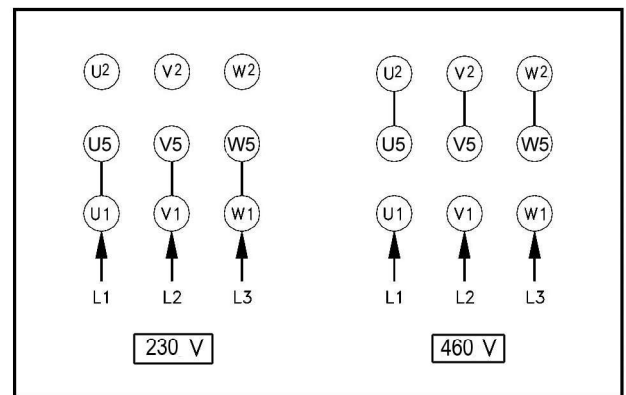


Figure 9-1: Main motor wiring

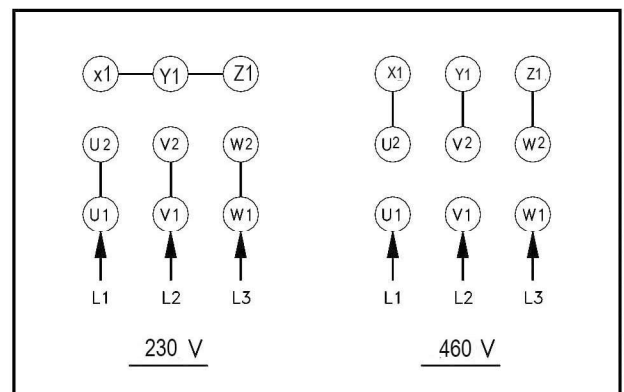


Figure 9-2: Oil pump wiring

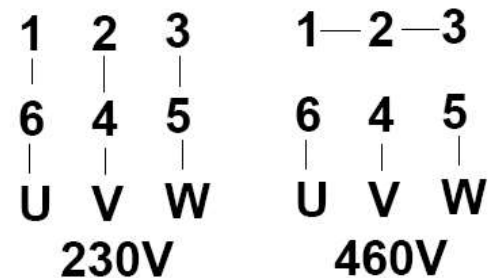


Figure 9-3: Coolant pump wiring

## 10.0 CONTROLS

Refer to Figure 10-1.

**Power Indicator Light (A)** – Illuminated whenever machine is connected to power.

### ⚠ WARNING

*If the bulb is out, lamp will not light, but machine may still have power.*

**Start Button (B)** – Press to activate hydraulic pump.

**Emergency Stop Button (C)** – Press to immediately stop all machine functions. Rotate clockwise to disengage.

**Coolant Switch (D)** – Turn switch to “I” to turn on coolant flow. Turn switch to “O” to stop coolant flow.

**Feed Rate Control (E)** – Sets the amount of downward force that is applied to the work piece by the blade. The feed rate is proportional to the opening of the valve. When set to zero, the saw head is locked in the raised position. Increasing the valve opening (clockwise adjustment) increases the feed rate; decreasing the valve opening (counterclockwise adjustment) reduces the feed rate.

**Blade Movement (F)** - Starts and stops the cutting operation cycle. When the stop is pressed, blade stops and saw head rises to start position. Press start again to resume cutting cycle.

**Saw Head Movement (G)** - Raises or lowers saw head.

**Manual/Auto (H)** - When Manual is selected, saw head will remain down after cut. When Auto is selected, saw head will return to raised position after cut.

**Vise Action (J)** - Activates or releases clamping action of the vise.

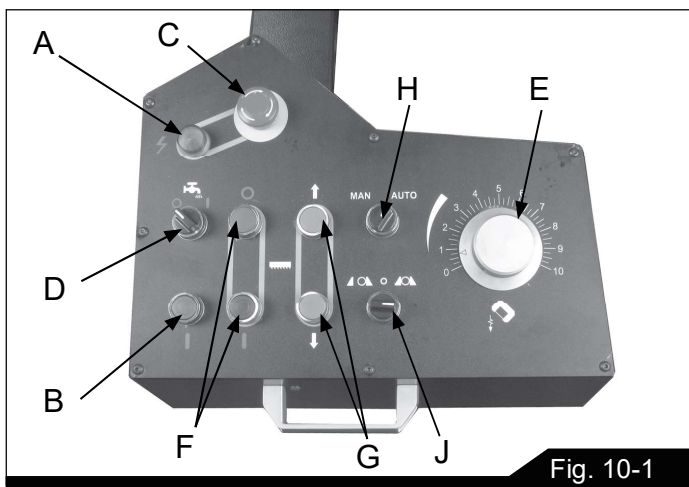


Fig. 10-1

## 11.0 AUXILIARY COOLANT HOSE

The saw is equipped with an auxiliary coolant hose and nozzle. This can be used when a larger flood of coolant must be directed at the work piece, or when cleaning off the lower sections of the saw.

## 12.0 PRIOR TO OPERATION

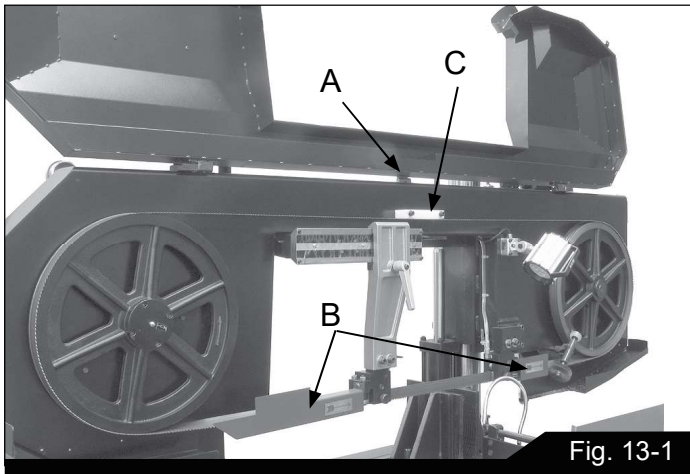
1. Check that blade tooth direction matches arrows on red blade guides.
2. Check to see that blade is properly seated on wheels and correct blade tension is applied (approximately 313 psi.).
3. Adjust blade guides and bearings. See sect. 13.4.
4. Position left blade guide as close to workpiece as possible.
5. Select proper speed and feed rate for material being cut.
6. Material to be cut must be securely held in vise.
7. Check to see that coolant level is adequate and turn on coolant pump if material to be cut requires it. Machine should be filled with four gallons of the proper coolant mixture. Follow the directions on the product maker's label and fill the coolant tank through the chip tray area.
8. Do not start cut on a sharp edge.
9. Keep machine lubricated. See sect. 14.0.

## 13.0 OPERATING ADJUSTMENTS

### 13.1 REMOVING AND INSTALLING BLADE

When your machine was shipped, a new blade was supplied and assembled to the saw. When replacement becomes necessary:

1. Raise saw head to convenient position for accessing the blade. Close the feed rate dial by turning it clockwise as far as it will go.
2. Release blade tension using the tension lever (see D, Fig. 13-8).
3. Press the E-stop button, and disconnect machine from power.
4. Open the wheel covers all the way until they are held by the ball detent (A, Fig. 13-1).
5. Remove the two red blade guards (B), and back off the carbide guides by turning the knurled knobs (see F, Fig. 13-1).
6. Back off the chip brush on the drive wheel.



7. Remove the blade from both wheels and out of each blade guide. **CAUTION: Even dull blades are sharp to the skin. Wear leather gloves when handling blades.**
8. Clean the swarf out of the blade wheel area.
9. Make sure the teeth of the new blade are pointing in the direction of travel. If necessary, turn the blade inside out.
10. Position the blade on the wheels and beneath the urethane block (C, Fig. 13-1). Make sure back of the blade rests lightly against wheel flanges.

**MAKE SURE THAT BACK OF BLADE IS AGAINST THE WHEEL FLANGES OF BOTH WHEELS. THIS IS VERY IMPORTANT.**

### WARNING

***Make sure the wheel cover frame fully engages the ball detent atop the machine - listen for the audible "click." Failure to comply may cause severe injury if the wheel covers fall.***

11. Twist the blade and slip it into the blade guides with the back of the blade against the back-up bearing (see Fig. 13-3). **NOTE:** If roller bearings need adjusting refer to sect. 13.4.
12. When you are sure the back of the blade is against the wheel flanges of both wheels and properly inserted into the guides, reconnect power to the saw and release E-stop..
13. Turn lever (D, Fig. 13-8) to tension blade.
14. Reposition chip brush so that it contacts the blade, and tighten in place.

15. Jog the blade "on" and "off" to be sure the blade is in place and tracking properly.
16. If blade is not tracking properly refer to sect. 13.11. Otherwise blade installation is done.
17. Close all covers, replace all guards, and fasten securely.
18. Follow blade break-in procedures, sect. 13.2.

### 13.2 BLADE BREAK-IN

A new blade should be "broken in" before normal, extended use. Failure to break in a new blade will shorten the service life of the blade, and result in inefficient cutting performance.

1. Reduce blade speed to 1/2 of normal setting.
2. Set feed rate at 2 to 3 times longer than normal.
3. Make 5 complete cuts at the above settings, through an 8-inch (200mm) diameter workpiece. Listen for unusual noises or metallic sounds.
4. If no unusual sounds or other issues are detected, then the blade is ready for normal operations.

### 13.3 ADJUSTING BLADE GUIDE POST

The blade guides should be set as close to the vise jaw as possible. The right blade guide bracket is not adjustable and is set at the factory to clear the right hand vise jaw. The left blade guide post can be moved left or right depending on the position of the sliding vise jaw.

To move the left blade guide post, loosen handle (R, Fig. 13-2), slide post into position as close to workpiece as possible without causing obstruction, then retighten handle.

The accompanying scale measures distance of exposed blade between the blade guides.

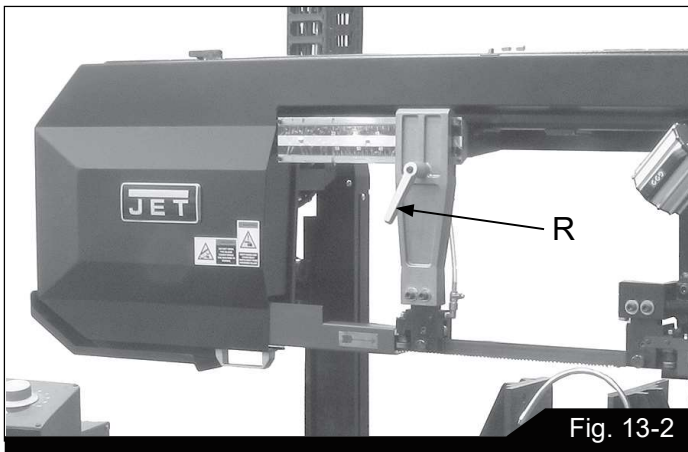


Fig. 13-2

### 13.4 ADJUSTING BLADE GUIDES

Proper adjustment of blade guide bearings is critical to efficient operation of the saw. The band saw is shipped with the blade tensioned and blade guides properly set, but these should be confirmed by the operator. They will rarely require adjustment except after a blade change. Failure to maintain proper blade guide settings may cause inaccurate cuts and/or blade damage.

First verify that the blade is sharp and in good condition; properly adjusted guides will not compensate for an inferior blade.

Fig. 13-3 shows the left hand blade guide assembly. Adjustments for the right hand guide will be identical.

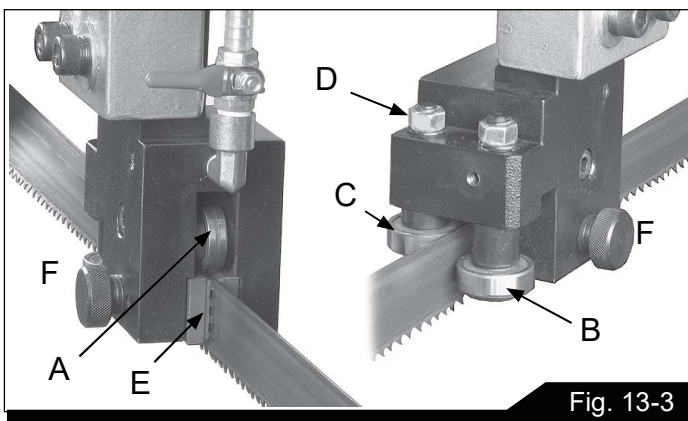


Fig. 13-3

The back of the blade should ride against the back-up support bearing (A, Fig. 13-3) which is positioned at 90-degrees to provide greater support and prevent deflection at the back of the blade.

The saw blade should also ride between the two roller bearings (B) and (C) and the carbide blocks (E).

Use the knobs (F) to lightly press the carbide blocks against the surface of the blade.

### 13.5 CHANGING BLADE SPEED

#### ⚠ CAUTION

*Only adjust speed with power on and blade turning. Failure to comply may cause damage to machine.*

1. Raise cutting head approximately six inches above work piece and turn feed rate knob to zero.
2. Turn power on and turn speed adjuster knob (Fig. 13-4) to match appropriate material. The LED display will show the current speed. The adjoining chart shows general recommendations for speeds in relation to material.

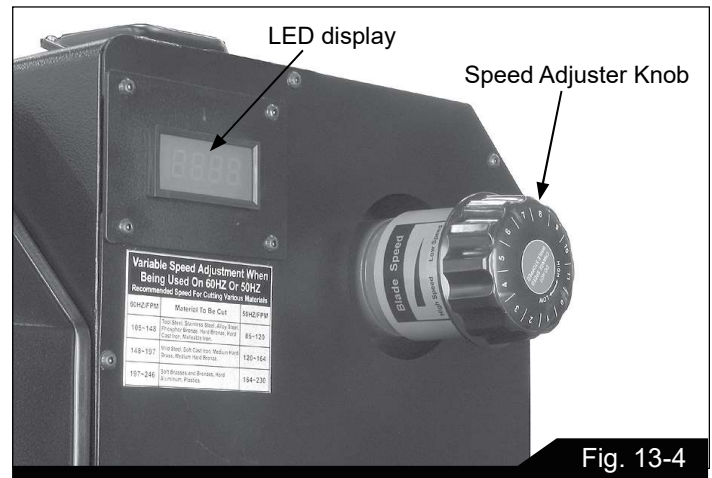


Fig. 13-4

Recommended Speed for Cutting Various Materials

| SPEED FPM      | MATERIAL TO BE CUT                                       |
|----------------|----------------------------------------------------------|
| <b>75-100</b>  | TOOL STEEL, STAINLESS STEEL, HARD BRONZE, HARD CAST IRON |
| <b>100-150</b> | MILD STEEL, SOFT CAST IRON, MEDIUM HARD BRASS AND BRONZE |
| <b>150-200</b> | SOFT BRASSES AND BRONZES, HARD ALUMINUM, PLASTICS        |
| <b>200-250</b> | PLASTICS, SOFT ALUMINUM, WOOD, OTHER LIGHT MATERIALS     |

### 13.6 ADJUSTING FEED RATE

Rate of feed is adjusted with control dial (E, Fig. 10-1).

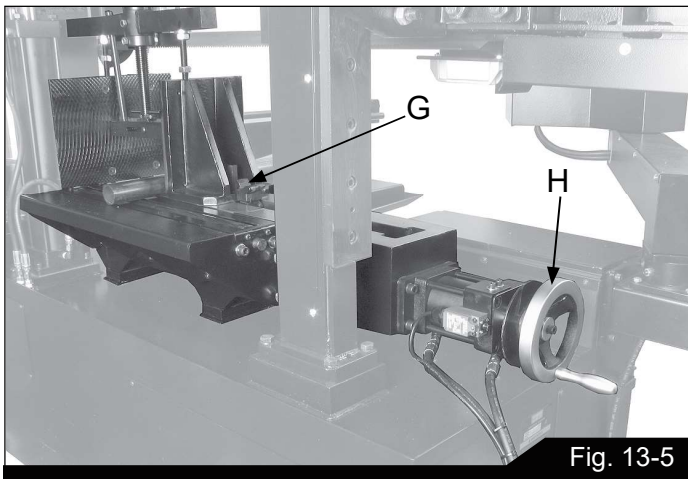
Feed rate is important to band saw performance; excessive pressure may break the blade or stall the saw. Insufficient pressure rapidly dulls the blade.

Material chips and shavings are the best indicator of proper feed pressure. The ideal chip is thin, tightly curled, and warm to the touch. Chips that range from golden brown to black indicate excessive force. Blue chips indicate extreme heat from too high a blade speed; this will shorten blade life. Thin, powdery chips indicate insufficient feed pressure.

### 13.7 OPERATING VISE

The workpiece is placed between the vise jaws with the required amount to be cut-off extending out past the blade.

1. Place workpiece in cutting position. Lift up pawl (G, Fig. 13-5) and slide jaw close to workpiece.
2. Turn handwheel (H) clockwise for a fine adjustment to create a 5 to 6 mm (1/4 in.) gap with workpiece.
3. Turn clamp switch (see J, Fig. 10-1) to the right to clamp the workpiece.
4. Perform cut.
5. Release clamping pressure via the switch (J, Fig. 10-1).
6. Lift pawl (G) and manually retract vise jaw.



Note: Figure 13-5 shows the 891161 Bundling Kit mounted (optional accessory, see our website).

### 13.8 ADJUSTING STOCK ADVANCE STOP

The Stock Stop is used mainly for repetitive cuts of the same length. Install the stock stop assembly to the machine bed with two hex bolts.

Position the stop block (J, Fig. 13-6), and adjust the rod (K) the desired distance away from the blade. Securely tighten the handle on the stop block, and the screw on the rod holder.

The stop may also be adjusted out of the way when not being used.

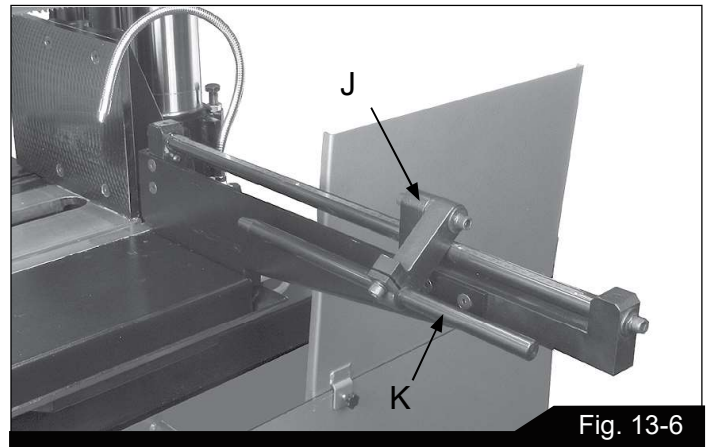


Fig. 13-6

### 13.9 GENERAL OPERATING PROCEDURE

1. Select the proper speed and blade for the type of material you are cutting.
2. Make sure blade tension is adjusted properly.
3. Make sure the left blade guide bracket is adjusted as close as possible to the left vise jaw, without causing obstruction.
4. Use the controls to raise the saw head, and turn the feed rate dial to zero.
5. Place the stock between the vise jaws, position the stock for the desired length of cut and tighten the vise.
6. Start the blade and turn on coolant system. Adjust coolant flow using the individual valves.
7. Set feed rate until saw blade begins to lower at desired rate of speed.
8. Proceed to cut through the workpiece. The blade will shut off at end of cut in manual mode; the saw head will return to raised position in auto mode.

### 13.10 LIMIT SWITCHES FOR SAW HEAD

The upper limit switch (A, Fig. 13-7) stops the saw head at the height set by the upper stop (B). This should be set to stop the head just above the workpiece, to optimize cycle time.

The lower limit switch (C) stops the saw head in bottom position after the cut, when it contacts the lower stop (D).

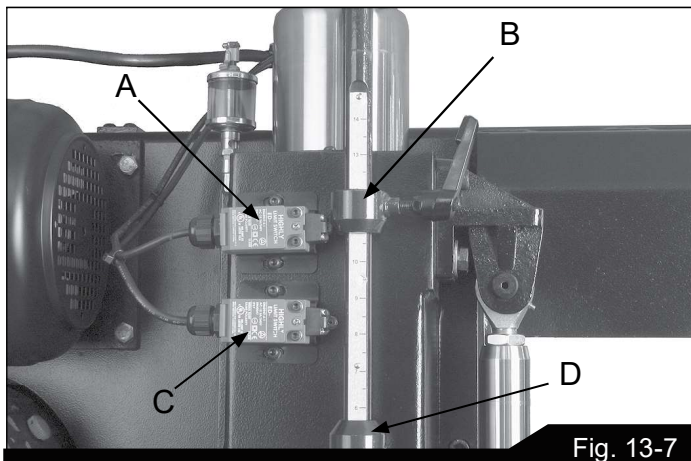


Fig. 13-7

### 13.11 BLADE TENSION & TRACKING

Push lever (D, Fig. 13-8) to the right to tighten the blade, or left to detension it for blade replacement. Do not overtension blades.

Blade tension has been preset by the manufacturer for the supplied blade, at 313 psi (22kg/cm<sup>2</sup>). Tension is shown in the gauge above the lever.

The safety limit switch (E) cuts power when there is a sudden loss of tension, such as when a blade breaks, to prevent further damage.

**CAUTION: Tracking adjustments must be performed by qualified persons who are familiar with this type of adjustment and the dangers associated with it.**

The saw blade has been properly tracked from the factory. If a tracking problem occurs, proceed as follows:

1. Raise saw head to a convenient position.
2. Disconnect machine from power source.
3. Locate tracking adjustment bolts on the backside of the saw head behind the driven wheel (Figure 13-8).
4. Minor adjustment generally only requires turning the (F) screw. More significant adjustments may involve (G) and (H) screws.

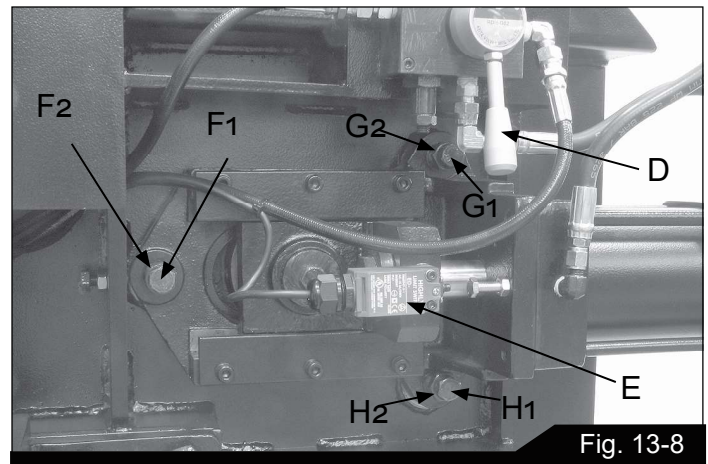


Fig. 13-8

5. Loosen the inner hex cap screw (F1) and turn the outer screw (F2) in or out as needed.
6. If blade has a tendency to come off the wheels, loosen G1 and H1 inner hex cap screws. Turn outer screws (G2, H2) as needed. Turning clockwise moves blade toward wheel; counterclockwise moves blade away from wheel.
7. Tracking is set properly when the back of the blade lightly touches the wheel flange. Note: Over tracking (allowing blade back to rub hard against the wheel flange) will damage wheels and blade.
8. Tighten inner hex cap screws (F1, G1, H1) to secure settings.

**IMPORTANT:** If band saw will remain idle for an extended period, back off blade tension to reduce unnecessary wear on wheels and components.

### 13.12 POWERED CHIP BRUSH

The chip brush is driven by the drive wheel. Keep the brush in contact with the blade to prevent excess debris from entering the wheel track; this will help prolong the life of the blade.

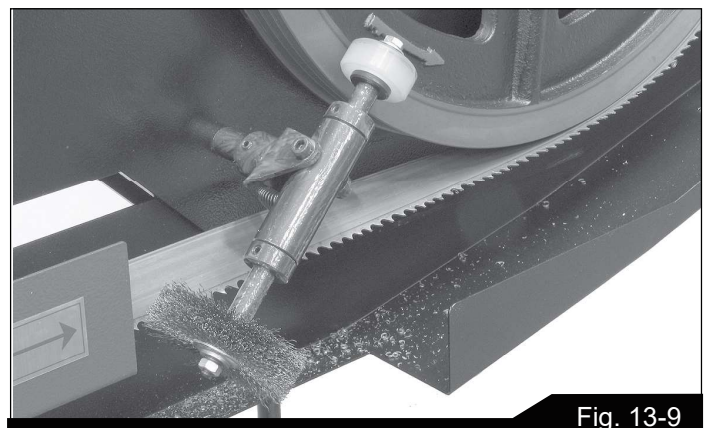


Fig. 13-9

## 14.0 USER-MAINTENANCE

### WARNING

***Before doing maintenance on the machine, disconnect it from the electrical supply by pulling out the plug or switching off the main switch. Failure to comply may cause serious injury.***

### 14.1 LUBRICATION

Use a light machine oil to lubricate moving parts and contact areas, as needed.

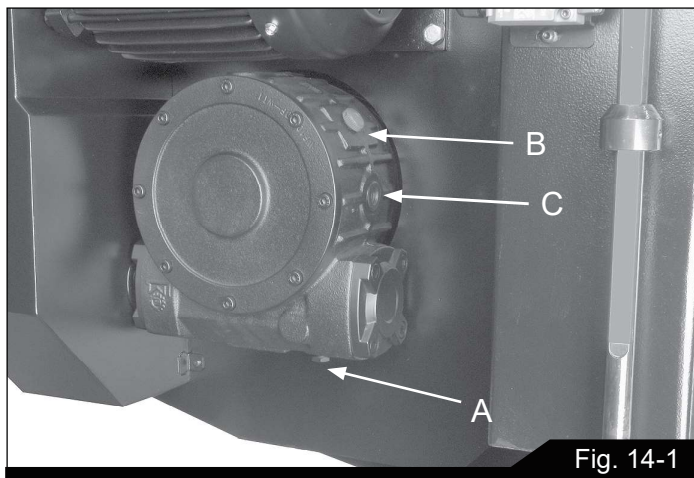
All ball bearings are permanently lubricated and sealed. They require no further attention.

### 14.2 GEAR CASE

After the first 50 hours of use the gear case should be drained and refilled. Change lubricant from then on every 250 hours of operation. Top off as needed.

To drain and refill:

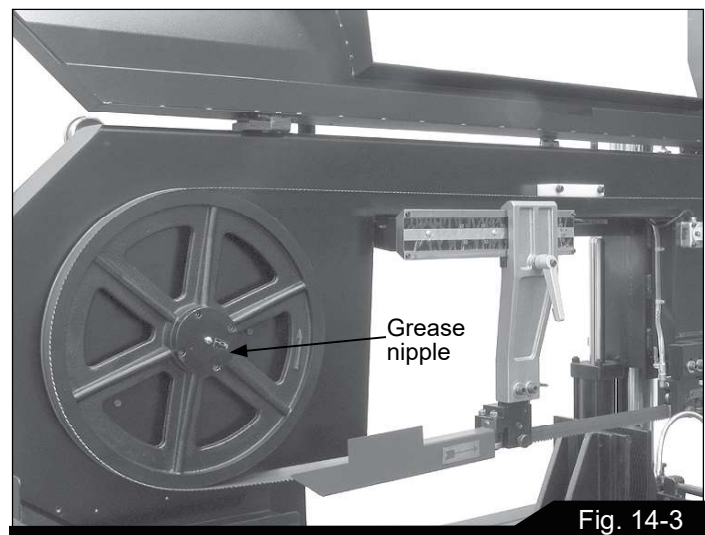
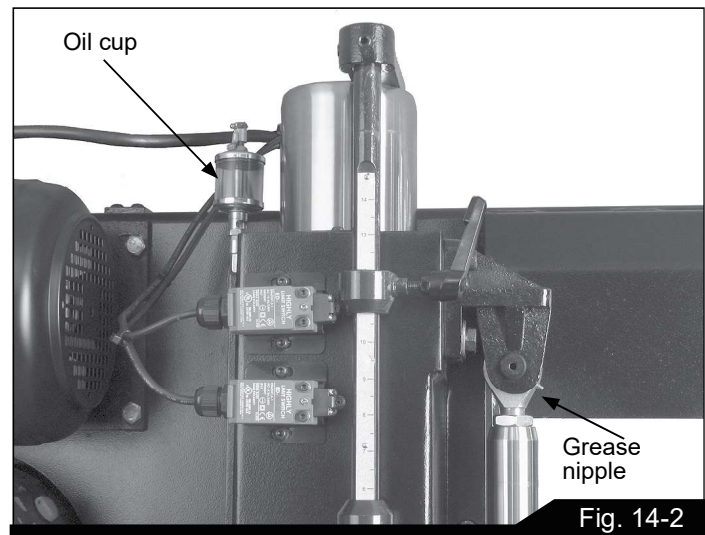
1. Disconnect machine from power source.
2. Remove drain plug (A, Fig. 14-1) and allow gear oil to drain completely. Dispose of oil according to local regulations.
3. Replace drain plug.
4. Remove filler cap (B) and fill gear box with a good quality gear oil, such as Mobil® SHC Gear Oil 460 or equivalent, until level reaches dot in middle of sight glass (C).
5. Replace filler cap.



### 14.3 ADDITIONAL GREASE/OIL POINTS

See Figures 14-2 and 14-3.

- Column oil cup - Top off as needed with Mobil DTE® Oil Heavy Medium, or equivalent.
- Grease nipple, cylinder pivot - Mobil Mobilux® 1, or equivalent.
- Grease nipple, center of driven wheel - Mobil Mobilux® 1, or equivalent.



#### 14.4 COOLANT

JET offers a bio-degradable, concentrated flood coolant (not provided) formulated for band saws, lathes, and milling machines, with a 20:1 water/coolant mix ratio. See JET website for more information and to order.

414124 JET Bio-Degradable Flood Coolant, 1/2 Gal.

414126 JET Bio-Degradable Flood Coolant, 1 Gal.

414127 JET Bio-Degradable Flood Coolant, 5 Gal. Pail

#### FILLING AND DRAINING

Pour coolant mixture into chip tray so that it drains through strainer into basin. The sight glass is located on right side of base.

To drain coolant use drain plug located on right side of machine base. Follow local regulations when disposing of used machine fluids. Apply thread sealing tape to the drain plug before re-installing.

Keep the overflow hole on right side of base, clean and unobstructed.

Different brands of coolant may not mix properly. If changing to new brand, first flush coolant line and sump with an industrial degreaser or cleaner that does not contain silicone or petroleum based ingredients.

#### 14.5 ADDITIONAL SERVICING

Any additional servicing should be done by qualified service personnel.

#### 14.6 MAINTENANCE SCHEDULE

If routine maintenance is neglected, the result will be premature wear and poor performance.

##### DAILY:

- General cleaning of machine; remove accumulated shavings.
- Clean coolant drain hole to avoid excess fluid buildup in the trough.
- Top off the lubricating coolant.
- Check blade for wear.
- Raise saw head to top position and partially slacken the blade to avoid unnecessary yield stress.
- Check functioning of blade guards and E-stop button

##### WEEKLY:

- Thoroughly clean the machine to remove swarf, especially from the the coolant tank.
- Remove pump from its housing, clean the suction filter and suction zone.
- Clean filter of pump section head and suction area.
- Use brush to clean blade guides, especially the guide bearings. Clean drain hole over the coolant tank.
- Clean blade wheel housings and races.

##### MONTHLY:

- Check tightness of drive wheel screws.
- Check that blade guide bearings are in perfect running condition.
- Check tightness of screws for motor, pump, and blade guards

##### EVERY SIX MONTHS:

- Perform circuit continuity checks.



## 15.0 OPTIONAL ACCESSORIES

The following accessories are available for your saw. Contact your dealer to order.

891161 - Bundling Kit for ECB-1422V

891162 - Infeed Roller Table for ECB-1422V

891163 - Outfeed Roller Table for ECB-1422V

## 16.0 REPLACEMENT PARTS — ECB1422V

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-855-336-4032, Monday through Friday, 8 a.m. to 5 p.m. CST. Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

JET®

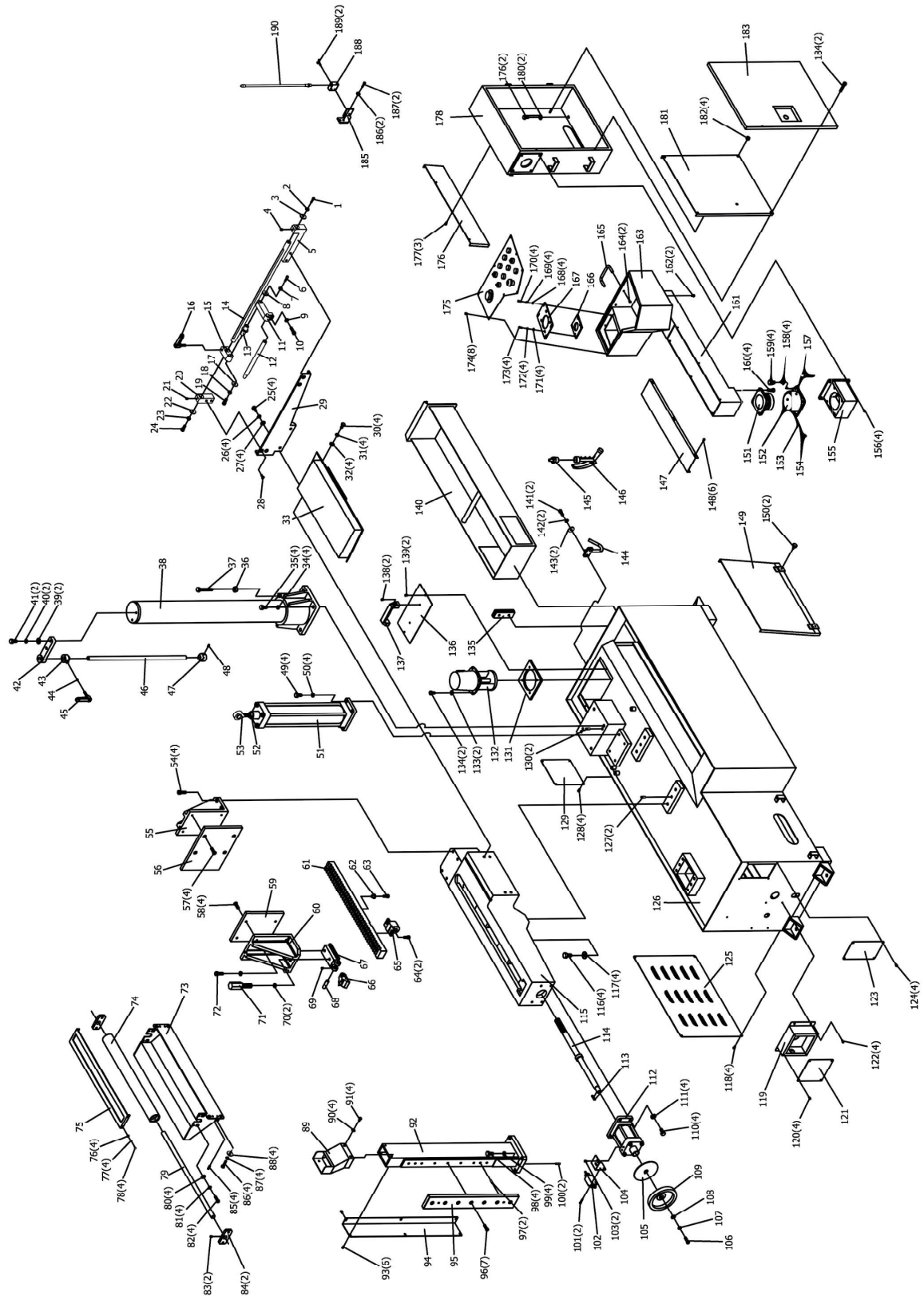
427 New Sanford Road

LaVergne, Tennessee 37086

[www.jettools.com](http://www.jettools.com)

Phone: 855-336-4032

## BASE ASSEMBLY — ECB1422V





## PARTS LIST BASE ASSEMBLY — ECB1422V

| Index No. | Part No.      | Description                   | Size            | Qty. |
|-----------|---------------|-------------------------------|-----------------|------|
| 1         | TS-0209051    | Socket Hd Cap Screw           | 3/8"-16x1"L     | 1    |
| 2         | TS-0720091    | Lock Washer                   | 3/8"            | 1    |
| 3         | ECB-1422V-A03 | Length Rod Washer             |                 | 1    |
| 4         | TS-0270021    | Socket Set Screw              | 5/16"-18x5/16"L | 1    |
| 5         | ECB-1422V-A05 | Length Rod Right Bracket      |                 | 1    |
| 6         | TS-0209051    | Socket Hd Cap Screw           | 3/8"-16x1"L     | 1    |
| 7         | TS-0720091    | Lock Washer                   | 3/8"            | 1    |
| 8         | ECB-1422V-A08 | Length Rod Washer             |                 | 1    |
| 9         | TS-0720091    | Lock Washer                   | 3/8"            | 1    |
| 10        | TS-0209051    | Socket Hd Cap Screw           | 3/8"-16x1"L     | 1    |
| 11        | ECB-1422V-A11 | Stopper Bracket               |                 | 1    |
| 12        | ECB-1422V-A12 | Length Stopper                |                 | 1    |
| 13        | ECB-1422V-A13 | Welding Rod                   |                 | 1    |
| 14        | ECB-1422V-A14 | Length Rod                    |                 | 1    |
| 15        | ECB-1422V-A15 | Length Setting Bracket        |                 | 1    |
| 16        | ECB-1422V-A16 | Handle                        | 3/8"x30mmL      | 1    |
| 17        | ECB-1422V-A17 | Length Rod Washer             |                 | 1    |
| 18        | TS-0720091    | Lock Washer                   | 3/8"            | 1    |
| 19        | TS-0209051    | Socket Hd Cap Screw           | 3/8"-16x1"L     | 1    |
| 20        | ECB-1422V-A20 | Length Rod Left Bracket       |                 | 1    |
| 21        | TS-0270021    | Socket Set Screw              | 5/16"-18x5/16"L | 1    |
| 22        | ECB-1422V-A22 | Length Rod Washer             |                 | 1    |
| 23        | TS-0720091    | Lock Washer                   | 3/8"            | 1    |
| 24        | TS-0209051    | Socket Hd Cap Screw           | 3/8"-16x1"L     | 1    |
| 25        | TS-1491031    | Hex Cap Screw                 | M10x25L         | 4    |
| 26        | TS-2361101    | Lock Washer                   | M10             | 4    |
| 27        | TS-1550071    | Flat Washer                   | M10             | 4    |
| 28        | TS-0246031    | Socket Head Flat Screw        | 5/16"-18x3/4"L  | 4    |
| 29        | ECB-1422V-A29 | Side Plate                    |                 | 1    |
| 30        | ECB-1422V-A30 | Hex Cap Screw                 | M12x20L         | 4    |
| 31        | TS-2361121    | Lock Washer                   | M12             | 4    |
| 32        | TS-2360121    | Flat Washer                   | M12             | 4    |
| 33        | ECB-1422V-A33 | Front Table                   |                 | 1    |
| 34        | TS-2361141    | Lock Washer                   | M14             | 4    |
| 35        | 5515366       | Hex Cap Screw                 | M14x50L         | 4    |
| 36        | TS-2310142    | Nut                           | M14             | 1    |
| 37        | 5515452       | Hex Cap Screw                 | M14x60L         | 1    |
| 38        | ECB-1422V-A38 | Large Column                  |                 | 1    |
| 39        | TS-1550071    | Flat Washer                   | M10             | 2    |
| 40        | TS-2361101    | Lock Washer                   | M10             | 2    |
| 41        | TS-1491061    | Hex Cap Screw                 | M10x40L         | 2    |
| 42        | ECB-1422V-A42 | Scale Bracket                 |                 | 1    |
| 43        | ECB-1422V-A43 | Down Adjusting Sleeve         |                 | 1    |
| 44        | ECB-1422V-A44 | Down Adjusting Copper Bushing |                 | 1    |
| 45        | ECB-1422V-A45 | Handle                        | M8x30           | 1    |
| 46        | ECB-1422V-A46 | Height Scale                  |                 | 1    |
| 47        | ECB-1422V-A47 | Adjusting Sleeve              |                 | 1    |
| 48        | TS-2276081    | Socket Set Screw              | M6x8L           | 1    |

| Index No. | Part No.      | Description            | Size           | Qty. |
|-----------|---------------|------------------------|----------------|------|
| 49        | TS-1491061    | Hex Cap Screw          | M10x40L        | 4    |
| 50        | TS-2361101    | Lock Washer            | M10            | 4    |
| 51        | ECB-1422V-A51 | Lift Cylinder          |                | 1    |
| 52        | TS-154012     | Nut                    | M20xP1.5       | 1    |
| 53        | ECB-1422V-A53 | Universal Joint        | BB2038A/ Pos20 | 1    |
| 54        | TS-1506041    | Socket Hd Cap Screw    | M12x35L        | 4    |
| 55        | ECB-1422V-A55 | Rear Vise              |                | 1    |
| 56        | ECB-1422V-A56 | Rear Vise Steel Plate  |                | 1    |
| 57        | TS-1515041    | Socket Head Flat Screw | M8x30L         | 4    |
| 58        | TS-1515041    | Socket Head Flat Screw | M8x30L         | 4    |
| 59        | ECB-1422V-A59 | Front Vise Steel Plate |                | 1    |
| 60        | ECB-1422V-A60 | Front Vise             |                | 1    |
| 61        | ECB-1422V-A61 | Rack                   |                | 1    |
| 62        | ECB-1422V-A62 | Rack Slider            |                | 1    |
| 63        | TS-1504051    | Socket Hd Cap Screw    | M8x25L         | 1    |
| 64        | TS-1504031    | Socket Hd Cap Screw    | M8x16L         | 2    |
| 65        | ECB-1422V-A65 | Lead Screw Nut         |                | 1    |
| 66        | ECB-1422V-A66 | Pawl                   |                | 1    |
| 67        | ECB-1422V-A67 | Vise Base              |                | 1    |
| 68        | ECB-1422V-A68 | Vise Base Shaft        |                | 1    |
| 69        | TS-2276081    | Socket Set Screw       | M6x8L          | 1    |
| 70        | TS-2361121    | Lock Washer            | M12            | 2    |
| 71        | ECB-1422V-A71 | Front Vise Bolt        |                | 1    |
| 72        | TS-2211451    | Hex Cap Screw          | M12x45L        | 1    |
| 73        | ECB-1422V-A73 | Roller Holder          |                | 1    |
| 74        | ECB-1422V-A74 | Auxiliary Roller       |                | 1    |
| 75        | ECB-1422V-A75 | Roller Cover           |                | 1    |
| 76        | TS-1550031    | Flat Washer            | M5             | 4    |
| 77        | TS-2361051    | Lock Washer            | M5             | 4    |
| 78        | TS-1481011    | Hex Cap Screw          | M5x8L          | 4    |
| 79        | ECB-1422V-A79 | Auxiliary Shaft        |                | 1    |
| 80        | TS-1550071    | Flat Washer            | M10            | 4    |
| 81        | TS-2361101    | Lock Washer            | M10            | 4    |
| 82        | TS-1505021    | Socket Hd Cap Screw    | M10x20L        | 4    |
| 83        | TS-2276081    | Socket Set Screw       | M6x8L          | 2    |
| 84        | ECB-1422V-A84 | Roller Setting Bracket |                | 2    |
| 85        | TS-1524021    | Socket Set Screw       | M8x10L         | 4    |
| 86        | F008871       | Hex Cap Screw          | M12x20L        | 4    |
| 87        | TS-2361121    | Lock Washer            | M12            | 4    |
| 88        | TS-2360121    | Flat Washer            | M12            | 4    |
| 89        | ECB-1422V-A89 | Cover Bracket          |                | 1    |
| 90        | TS-1550041    | Flat Washer            | M6             | 4    |
| 91        | TS-2246082    | Socket HD Button Screw | M6x8L          | 4    |
| 92        | ECB-1422V-A92 | Small Column           |                | 1    |
| 93        | TS-2246082    | Socket HD Button Screw | M6x8L          | 6    |
| 94        | ECB-1422V-A94 | Small Column Cover     |                | 1    |
| 95        | ECB-1422V-A95 | Guide Block            |                | 1    |
| 96        | TS-1505031    | Socket Hd Cap Screw    | M10x25L        | 7    |

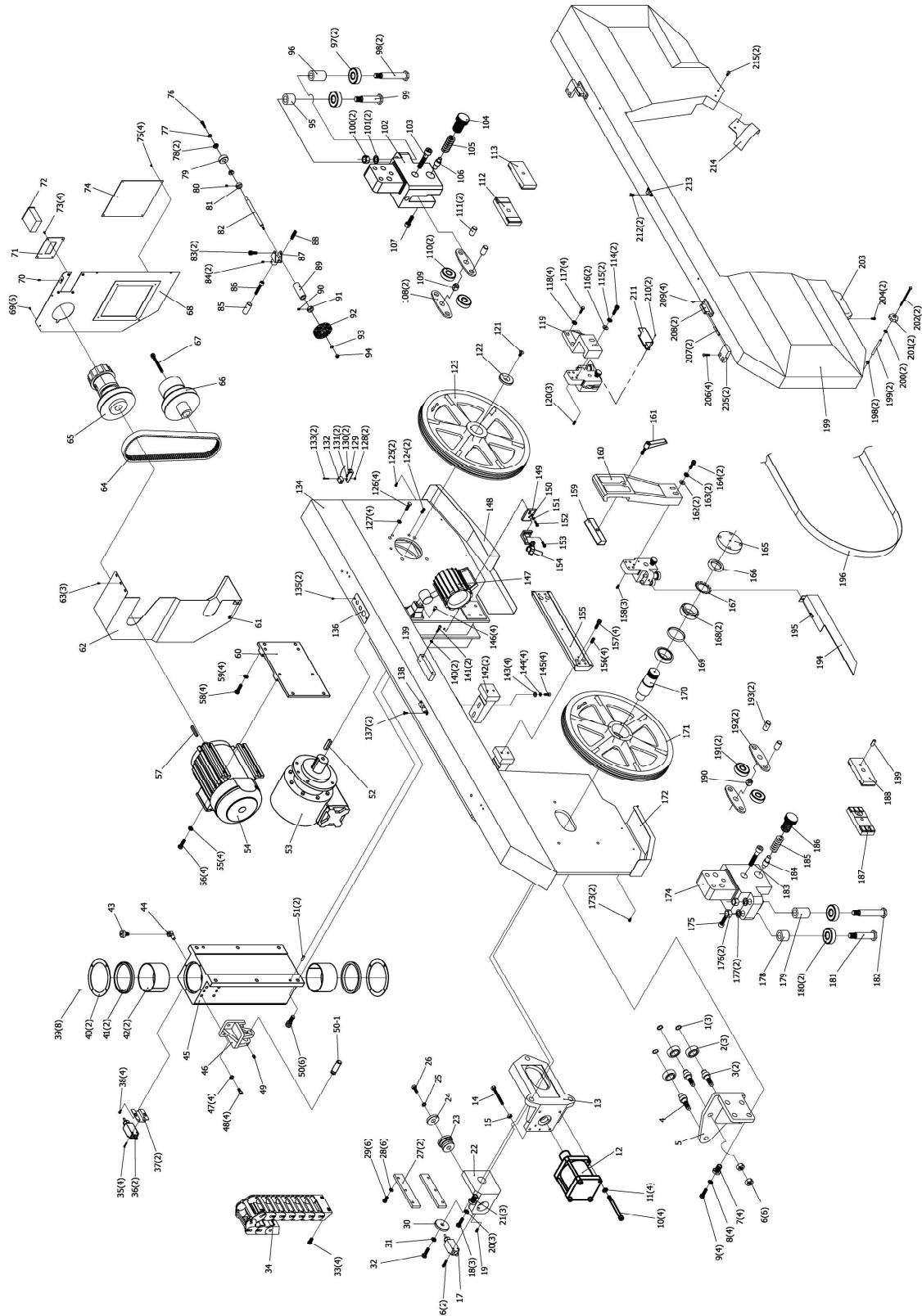


| Index No. | Part No.       | Description                      | Size      | Qty. |
|-----------|----------------|----------------------------------|-----------|------|
| 97        | F012105        | Roll Pin                         | M8x20L    | 2    |
| 98        | TS-1492051     | Hex Cap Screw                    | M12x50L   | 4    |
| 99        | TS-2361121     | Lock Washer                      | M12       | 4    |
| 100       | F012106        | Roll Pin M10x20L                 | 10x20L    | 2    |
| 101       | TS-1501081     | Socket Hd Cap Screw              | M4x30L    | 2    |
| 102       | ECB-1422V-A102 | Limit Switch                     |           | 1    |
| 103       | TS-2246082     | Socket HD Button Screw           | M6x8L     | 2    |
| 104       | ECB-1422V-A104 | Limit Switch Cover               |           | 1    |
| 105       | ECB-1422V-A105 | Limit Switch Contact Plate       |           | 1    |
| 106       | TS-1504051     | Socket Hd Cap Screw              | M8x25L    | 1    |
| 107       | TS-2361081     | Lock Washer                      | M8        | 1    |
| 108       | TS-1550061     | Flat Washer                      | M8        | 1    |
| 109       | ECB-1422V-A109 | Handle Wheel                     |           | 1    |
| 110       | TS-149105      | Hex Cap Screw                    | M10x35L   | 4    |
| 111       | TS-2361101     | Lock Washer                      | M10       | 4    |
| 112       | ECB-1422V-A112 | Vise Cylinder                    |           | 1    |
| 113       | EGH1740-B20    | Key, Dbl Rd Hd                   | 6x6x25L   | 1    |
| 114       | ECB-1422V-A114 | Lead Screw                       |           | 1    |
| 115       | ECB-1422V-A115 | Work Table                       |           | 1    |
| 116       | ECB-1422V-A116 | Hex Cap Screw                    | M14x45L   | 4    |
| 117       | TS-2361141     | Lock Washer                      | M14       | 4    |
| 118       | F009884        | Socket HD Button Screw           | M5x8L     | 4    |
| 119       | ECB-1422V-A119 | Outlet Box                       |           | 1    |
| 120       | F009884        | Socket HD Button Screw           | M5x8L     | 4    |
| 121       | ECB-1422V-A121 | Outlet Box Cover                 |           | 1    |
| 122       | TS-2246082     | Socket HD Button Screw           | M6x8L     | 4    |
| 123       | ECB-1422V-A123 | Machine Base A Sealing Plate     |           | 1    |
| 124       | TS-2246082     | Socket HD Button Screw           | M6x8L     | 4    |
| 125       | ECB-1422V-A125 | Hydraulic Unit Cover             |           | 1    |
| 126       | ECB-1422V-A126 | Machine Base                     |           | 1    |
| 127       | F012106        | Roll Pin                         | 10x20L    | 2    |
| 128       | F009884        | Socket HD Button Screw           | M5x8L     | 4    |
| 129       | ECB-1422V-A129 | Machine Base Small Sealing Plate |           | 1    |
| 130       | F012106        | Roll Pin                         | 10x20L    | 2    |
| 131       | ECB-1422V-A131 | Coolant Pump Plate               |           | 1    |
| 132       | ECB-1422V-A132 | Coolant Pump                     | 1/6"X210l | 1    |
| 133       | TS-2361061     | Lock Washer                      | M6        | 2    |
| 134       | TS-1482031     | Hex Cap Screw                    | M6x16L    | 2    |
| 135       | ECB-1422V-A135 | Oil Gauge                        |           | 1    |
| 136       | ECB-1422V-A136 | Coolant Pump Sealing Plate       |           | 1    |
| 137       | ECB-1422V-A137 | Handle                           |           | 1    |
| 138       | TS-2246122     | Socket HD Button Screw           | M6x12L    | 2    |
| 139       | TS-2246082     | Socket HD Button Screw           | M6x8L     | 2    |
| 140       | ECB-1422V-A140 | Chip Collector                   |           | 1    |
| 141       | TS-1503051     | Socket Hd Cap Screw              | M6x20L    | 4    |
| 142       | TS-2361061     | Lock Washer                      | M6        | 4    |
| 143       | TS-1550041     | Flat Washer                      | M6        | 4    |
| 144       | ECB-1422V-A144 | Water Gun Hanger                 |           | 1    |

| Index No. | Part No.       | Description                             | Size           | Qty. |
|-----------|----------------|-----------------------------------------|----------------|------|
| 145       | ECB-1422V-A145 | Waterjet Joint                          |                | 1    |
| 146       | ECB-1422V-A146 | Water Gun, non-Zinc                     | 5-1/2"         | 1    |
| 147       | ECB-1422V-A147 | Control Box Support Cover               |                | 1    |
| 148       | TS-2246082     | Socket HD Button Screw                  | M6x8L          | 6    |
| 149       | ECB-1422V-A149 | Splash Guard                            |                | 1    |
| 150       | ECB-1422V-A150 | Hexalobular Socket Screw                | M6x8L          | 2    |
| 151       | ECB-1422V-A151 | Control Box Support Screw Axis          |                | 1    |
| 152       | ECB-1422V-A152 | Control Box Support Bushing             |                | 1    |
| 153       | TS-1524051     | Socket Set Screw                        | M8x20L         | 1    |
| 154       | TS-1540061     | Nut                                     | M8             | 1    |
| 155       | ECB-1422V-A155 | Control Box Fixed Support               |                | 1    |
| 156       | TS-2228161     | Hex Cap Screw                           | M8x16L         | 4    |
| 157       | ECB-1422V-A157 | Handle                                  | M8x35L         | 1    |
| 158       | TS-2361081     | Lock Washer                             | M8             | 4    |
| 159       | TS-2228161     | Hex Cap Screw                           | M8x16L         | 4    |
| 160       | TS-1503041     | Socket Hd Cap Screw                     | M6x16L         | 4    |
| 161       | ECB-1422V-A161 | Control Box Support                     |                | 1    |
| 162       | TS-1481011     | Hex Cap Screw                           | M5x8L          | 4    |
| 163       | ECB-1422V-A163 | Control Box                             |                | 1    |
| 164       | TS-1503011     | Socket HD Button Screw                  | M6x8L          | 2    |
| 165       | ECB-1422V-A165 | Handle                                  | HPU-120AL      | 1    |
| 166       | ECB-1422V-A166 | Flow Control Fixed Support              |                | 1    |
| 167       | ECB-1422V-A167 | Flow Control Plate                      |                | 1    |
| 168       | TS-1550041     | Flat Washer                             | M6             | 4    |
| 169       | TS-2361061     | Lock Washer                             | M6             | 4    |
| 170       | TS-1503041     | Socket Hd Cap Screw                     | M6x16L         | 4    |
| 171       | TS-1550031     | Flat Washer                             | M5             | 4    |
| 172       | TS-2361051     | Lock Washer                             | M5             | 4    |
| 173       | TS-1502041     | Socket Hd Cap Screw                     | M5x16L         | 4    |
| 174       | F009884        | Socket HD Button Screw                  | M5x8L          | 8    |
| 175       | ECB-1422V-A175 | Control Panel                           |                | 1    |
| 176       | ECB-1422V-A176 | Control Box Splash Guard                |                | 1    |
| 177       | TS-1503011     | Socket HD Button Screw                  | M6x8L          | 3    |
| 178       | ECB-1422V-A178 | Control Box                             |                | 1    |
| 179       | TS-1482031     | Hex Cap Screw                           | M6x16L         | 2    |
| 180       | TS-1550041     | Flat Washer                             | M6             | 2    |
| 181       | ECB-1422V-A181 | Control Box Bottom Plate                |                | 1    |
| 182       | TS-2311061     | Nut                                     | M6             | 4    |
| 183       | ECB-1422V-A183 | Control Box Door                        |                | 1    |
| 184       | TS-1503071     | Socket Hd Cap Screw                     | M6x30          | 2    |
| 185       | ECB-1422V-A185 | Hose Seat Fixed Plate                   |                | 1    |
| 186       | TS-2361061     | Lock Washer                             | M6             | 2    |
| 187       | TS-1503041     | Socket Hd Cap Screw                     | M6x16L         | 2    |
| 188       | ECB-1422V-A188 | Hose Seat                               |                | 1    |
| 189       | ECB-1422V-A189 | Wing Screw                              | M6x30L         | 2    |
| 190       | ECB-1422V-A190 | Hose                                    | Sp105*1/4"X18" | 1    |
|           | LM000423       | ID-Warning Label, ECB-1422V (not shown) |                | 1    |
|           | ECB-1422V-TBC  | Tool Box Complete (not shown)           |                | 1    |



## SAW HEAD ASSEMBLY — ECB1422V



## PARTS LIST SAW HEAD ASSEMBLY — ECB1422V

| Index No. | Part No.      | Description                  | Size                 | Qty. |
|-----------|---------------|------------------------------|----------------------|------|
| 1         | F006047       | C-Retaining Ring, Ext        | S20                  | 3    |
| 2         | BB-6304       | Bearing                      | BB-6304              | 3    |
| 3         | ECB-1422V-B03 | Adjustable Shaft             |                      | 2    |
| 4         | ECB-1422V-B04 | Eccentric Shaft              |                      | 1    |
| 5         | ECB-1422V-B05 | Adjusting Bracket            |                      | 1    |
| 6         | TS-154010     | Hex Nut                      | M16                  | 6    |
| 7         | ECB-1422V-B07 | 45° Steel Screw              |                      | 4    |
| 8         | TS-2361121    | Lock Washer                  | M12                  | 4    |
| 9         | TS-1492051    | Hex Cap Screw                | M12x50L              | 4    |
| 10        | F005679       | Socket Hd Cap Screw          | M12x135L             | 4    |
| 11        | TS-2361121    | Lock Washer                  | M12                  | 4    |
| 12        | ECB-1422V-B12 | Blade Tension Cylinder       |                      | 1    |
| 13        | ECB-1422V-B13 | Tension Slider               |                      | 1    |
| 14        | TS-1490081    | Hex Cap Screw                | M8x45L               | 1    |
| 15        | TS-1540061    | Hex Nut                      | M8                   | 1    |
| 16        | TS-1501081    | Socket Hd Cap Screw          | M4x30L               | 2    |
| 17        | ECB-1422V-B17 | Limit Switch                 |                      | 1    |
| 18        | TS-1492051    | Hex Cap Screw                | M12x50L              | 3    |
| 19        | TS-1525021    | Socket Set Screw             | M10x12L              | 1    |
| 20        | TS-2361121    | Lock Washer                  | M12                  | 3    |
| 21        | ECB-1422V-B21 | Adjusting Screw              |                      | 3    |
| 22        | ECB-1422V-B22 | Tension Slider               |                      | 1    |
| 23        | ECB-1422V-B23 | Bolt Bushing                 |                      | 1    |
| 24        | ECB-1422V-B24 | Bushing Washer               |                      | 1    |
| 25        | TS-2361121    | Lock Washer                  | M12                  | 1    |
| 26        | TS-1492021    | Hex Cap Screw                | M12x30L              | 1    |
| 27        | ECB-1422V-B27 | Cover Plate                  |                      | 2    |
| 28        | TS-2361081    | Lock Washer                  | M8                   | 6    |
| 29        | TS-1504051    | Socket Hd Cap Screw          | M8x25L               | 6    |
| 30        | ECB-1422V-B30 | Blade Wheel Guide Arm Washer |                      | 1    |
| 31        | TS-2361121    | Lock Washer                  | M12                  | 1    |
| 32        | TS-1492021    | Hex Cap Screw                | M12x30L              | 1    |
| 33        | TS-1504051    | Socket Hd Cap Screw          | M8x25L               | 4    |
| 34        | ECB-1422V-B34 | Cable Carrier                | SQ604V*KR40*808L*NO1 | 1    |
| 35        | TS-1501081    | Socket Hd Cap Screw          | M4x30L               | 4    |
| 36        | ECB-1422V-B36 | Limit Switch                 |                      | 2    |
| 37        | ECB-1422V-B37 | Limit Switch Fixed Plate     |                      | 2    |
| 38        | TS-2246202    | Socket Hd Button Screw       | M6x20L               | 4    |
| 39        | TS-2246082    | Socket Hd Button Screw       | M6x8L                | 8    |
| 40        | ECB-1422V-B40 | Large Column Plate           |                      | 2    |
| 41        | ECB-1422V-B41 | Oil Seal                     | DKB-110*126*9/12     | 2    |
| 42        | ECB-1422V-B42 | Oil less Bushing             | 11070                | 2    |
| 43        | ECB-1422V-B43 | Filling Cup                  |                      | 1    |
| 44        | ECB-1422V-B44 | 90° Fitting                  | 1/8"x1/8"            | 1    |
| 45        | ECB-1422V-B45 | Column Slider                |                      | 1    |
| 46        | ECB-1422V-B46 | Upper Holder                 |                      | 1    |



| Index No. | Part No.        | Description             | Size                | Qty. |
|-----------|-----------------|-------------------------|---------------------|------|
| 47        | TS-2361101      | Lock Washer             | M10                 | 4    |
| 48        | TS-1505041      | Socket Hd Cap Screw     | M10x30L             | 4    |
| 49        | TS-1523011      | Socket Set Screw        | M6x6L               | 1    |
| 50        | TS-1506031      | Socket Hd Cap Screw     | M12x30L             | 6    |
| 50-1      | ECB-1422V-B50-1 | Saw Bow Upper Shaft     |                     | 1    |
| 51        | F012107         | Roll Pin                | 10x30L              | 2    |
| 52        | ECB-1422V-B52   | Key, Dbl Rd Hd          | 14x9x50L            | 1    |
| 53        | ECB-1422V-B53   | Speed Reducer           | 100#1/40WT          | 1    |
| 54        | ECB-1422V-B54   | Motor                   | 5HP 230/460V 3PH 4P | 1    |
| 55        | TS-2361101      | Lock Washer             | M10                 | 4    |
| 56        | TS-1491041      | Hex Cap Screw           | M10x30L             | 4    |
| 57        | ECB-1422V-B57   | Key, Dbl Rd Hd          | 8x7x50L             | 1    |
| 58        | TS-1491031      | Hex Cap Screw           | M10x25L             | 4    |
| 59        | TS-2361101      | Lock Washer             | M10                 | 4    |
| 60        | ECB-1422V-B60   | Motor Fixed Plate       |                     | 1    |
| 61        | TS-2245102      | Socket Hd Button Screw  | M5x8L               | 1    |
| 62        | ECB-1422V-B62   | Reducer Guard           |                     | 1    |
| 63        | TS-2245102      | Socket Hd Button Screw  | M5x8L               | 3    |
| 64        | ECB-1422V-B64   | Belt                    | 1922V426            | 1    |
| 65        | ECB-1422V-B65   | Adjustable Pulley       |                     | 1    |
| 66        | ECB-1422V-B66   | Fixed Pulley            |                     | 1    |
| 67        | ECB-1422V-B67   | Socket Hd Cap Screw     | M8x65L              | 1    |
| 68        | ECB-1422V-B68   | Cover Plate             |                     | 1    |
| 69        | TS-2245102      | Socket Hd Button Screw  | M5x8L               | 6    |
| 70        | TS-2245102      | Socket Hd Button Screw  | M5x8L               | 1    |
| 71        | ECB-1422V-B71   | Speed Bracket           |                     | 1    |
| 72        | ECB-1422V-B72   | Speed Display           |                     | 1    |
| 73        | TS-2245102      | Socket Hd Button Screw  | M5x8L               | 4    |
| 74        | ECB-1422V-B74   | Wheel Cover Plate       |                     | 1    |
| 75        | TS-2245102      | Socket Hd Button Screw  | M5x8L               | 4    |
| 76        | TS-1503041      | Socket Hd Cap Screw     | M6x16L              | 1    |
| 77        | TS-2361061      | Lock Washer             | M6                  | 1    |
| 78        | ECB-1422V-B78   | Brush Pulley Sleeve     |                     | 2    |
| 79        | ECB-1422V-B79   | Brush Pulley            |                     | 1    |
| 80        | TS-1523011      | Socket Set Screw        | M6x6L               | 1    |
| 81        | ECB-1422V-B81   | Position Shaft          |                     | 1    |
| 82        | ECB-1422V-B82   | Brush Guide Wheel Shaft |                     | 1    |
| 83        | TS-1503011      | Socket Hd Cap Screw     | M6x8L               | 2    |
| 84        | TS-1523011      | Socket Set Screw        | M6x6L               | 2    |
| 85        | ECB-1422V-B85   | Fixed Shaft             |                     | 1    |
| 86        | TS-1504081      | Socket Hd Cap Screw     | M8x40L              | 1    |
| 87        | ECB-1422V-B87   | Brush Bracket           |                     | 1    |
| 88        | ECB-1422V-B88   | Brush Spring            |                     | 1    |
| 89        | ECB-1422V-B89   | Brush Shaft Bushing     |                     | 1    |
| 90        | TS-1523011      | Socket Set Screw        | M6x6L               | 1    |
| 91        | ECB-1422V-B91   | Position Sleeve         |                     | 1    |
| 92        | ECB-1422V-B92   | Brush                   |                     | 1    |

| Index No. | Part No.       | Description                | Size    | Qty. |
|-----------|----------------|----------------------------|---------|------|
| 93        | TS-2361101     | Lock Washer                | M10     | 1    |
| 94        | TS-1540071     | Hex Nut                    | M10     | 1    |
| 95        | ECB-1422V-B95  | Bearing Bushing (Short)    |         | 1    |
| 96        | ECB-1422V-B96  | Bearing Bushing (Long)     |         | 1    |
| 97        | BB-6201        | Bearing                    | BB-6201 | 2    |
| 98        | ECB-1422V-B98  | Bearing Shaft (Long)       |         | 1    |
| 99        | ECB-1422V-B99  | Bearing Shaft (Short)      |         | 1    |
| 100       | TS-1540071     | Hex Nut                    | M10     | 2    |
| 101       | TS-2361101     | Lock Washer                | M10     | 2    |
| 102       | ECB-1422V-B102 | Blade Guide Block (Rear)   |         | 1    |
| 103       | TS-1504091     | Socket Hd Cap Screw        | M8x45L  | 1    |
| 104       | ECB-1422V-B104 | Guide Screw                |         | 1    |
| 105       | ECB-1422V-B105 | Guide Spring               |         | 1    |
| 106       | ECB-1422V-B106 | Guide Pin                  |         | 1    |
| 107       | TS-1503041     | Socket Hd Cap Screw        | M6x16L  | 1    |
| 108       | ECB-1422V-B108 | Upper Bracket              |         | 2    |
| 109       | ECB-1422V-B109 | Bracket Shaft              |         | 1    |
| 110       | BB-6000        | Bearing                    | BB-6000 | 2    |
| 111       | ECB-1422V-B111 | Bearing Shaft              |         | 2    |
| 112       | ECB-1422V-B112 | Carbide Guide (L/R)        |         | 1    |
| 113       | ECB-1422V-B113 | Carbide Guide (R/R)        |         | 1    |
| 114       | TS-1505051     | Socket Hd Cap Screw        | M10x35L | 2    |
| 115       | TS-2361101     | Lock Washer                | M10     | 2    |
| 116       | TS-1550071     | Flat Washer                | M10     | 2    |
| 117       | TS-1492021     | Hex Cap Screw              | M12x30L | 4    |
| 118       | TS-2361121     | Lock Washer                | M12     | 4    |
| 119       | ECB-1422V-B119 | Guide Arm (Rear)           |         | 1    |
| 120       | ECB-1422V-B120 | Socket Set Screw           | M8x30L  | 3    |
| 121       | TS-1517011     | Socket Hd Flat Screw       | M12x25L | 1    |
| 122       | ECB-1422V-B122 | Wheel Washer               |         | 1    |
| 123       | ECB-1422V-B123 | Drive Wheel                |         | 1    |
| 124       | TS-1526041     | Socket Set Screw           | M12x25L | 2    |
| 125       | TS-2246082     | Socket Hd Button Screw     | M6x8L   | 2    |
| 126       | TS-2211451     | Hex Cap Screw              | M12x45L | 4    |
| 127       | TS-2361121     | Lock Washer                | M12     | 4    |
| 128       | TS-1540021     | Hex Nut                    | M4      | 2    |
| 129       | ECB-1422V-B129 | Speed Sensor Bracket       |         | 1    |
| 130       | TS-2361061     | Lock Washer                | M6      | 2    |
| 131       | TS-2246122     | Socket Hd Button Screw     | M6x12L  | 2    |
| 132       | ECB-1422V-B132 | Speed Sensor               |         | 1    |
| 133       | F001186        | Pan Hd Machine Screw       | M4x25L  | 2    |
| 134       | ECB-1422V-B134 | Saw Head                   |         | 1    |
| 135       | TS-2246082     | Socket Hd Button Screw     | M6x8L   | 2    |
| 136       | ECB-1422V-B136 | Wires Locking Plate        |         | 1    |
| 137       | TS-1512011     | Socket Hd Flat Screw       | M4x10L  | 2    |
| 138       | ECB-1422V-B138 | Cover Hook                 |         | 1    |
| 139       | ECB-1422V-B139 | Blade Press Cake (Plastic) |         | 1    |
| 140       | TS-2361081     | Lock Washer                | M8      | 2    |
| 141       | TS-1504081     | Socket Hd Cap Screw        | M8x40L  | 2    |

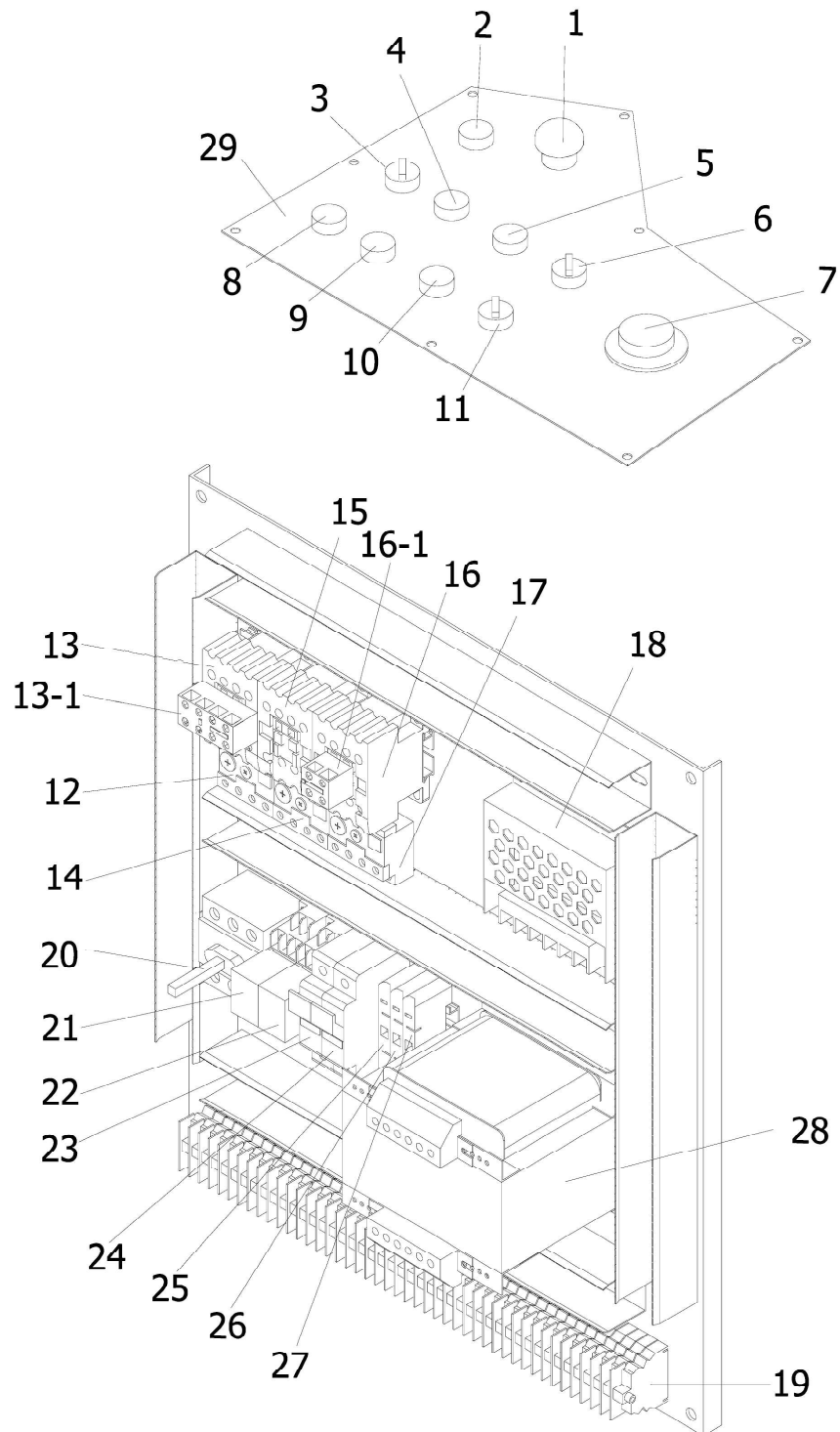


| Index No. | Part No.       | Description               | Size      | Qty. |
|-----------|----------------|---------------------------|-----------|------|
| 142       | ECB-1422V-B142 | Holder Plates             |           | 2    |
| 143       | TS-1550071     | Flat Washer               | M10       | 4    |
| 144       | TS-2361101     | Lock Washer               | M10       | 4    |
| 145       | TS-1505041     | Socket Hd Cap Screw       | M10x30    | 4    |
| 146       | TS-2246162     | Socket Hd Button Screw    | M6x16L    | 4    |
| 147       | ECB-1422V-B147 | Work Light                | 9W/ 24VAC | 1    |
| 148       | ECB-1422V-B148 | Rear Coolant Tray         |           | 1    |
| 149       | ECB-1422V-B149 | Laser Fixed Plate         |           | 1    |
| 150       | TS-1550031     | Flat Washer               | M5        | 1    |
| 151       | TS-2361051     | Lock Washer               | M5        | 1    |
| 152       | TS-1502041     | Socket Hd Cap Screw       | M5x16L    | 1    |
| 153       | ECB-1422V-B153 | Hex Washer Head Screw     | M6x12L    | 1    |
| 154       | ECB-1422V-B154 | Laser Line Projector      |           | 1    |
| 155       | ECB-1422V-B155 | Guide Arm Holder          |           | 1    |
| 156       | TS-1525031     | Socket Set Screw          | M10x16L   | 4    |
| 157       | TS-1505031     | Socket Hd Cap Screw       | M10x25L   | 4    |
| 158       | ECB-1422V-B158 | Socket Set Screw          | M8x16L    | 3    |
| 159       | ECB-1422V-B159 | Locking Block             |           | 1    |
| 160       | ECB-1422V-B160 | Guide Arm (Front)         |           | 1    |
| 161       | ECB-1422V-B161 | Handle                    | M12x45L   | 1    |
| 162       | TS-1550071     | Flat Washer               | M10       | 2    |
| 163       | TS-2361101     | Lock Washer               | M10       | 2    |
| 164       | TS-1505051     | Socket Hd Cap Screw       | M10x35L   | 2    |
| 165       | ECB-1422V-B165 | Bearing Cover             |           | 1    |
| 166       | ECB-1422V-B166 | Bearing Nut               | AN09      | 1    |
| 167       | ECB-1422V-B167 | Gear Washer               | AW09      | 1    |
| 168       | BB-32009       | Taper Bearing             | 32009     | 2    |
| 169       | ECB-1422V-B169 | Spacer                    |           | 1    |
| 170       | ECB-1422V-B170 | Driven Shaft              |           | 1    |
| 171       | ECB-1422V-B171 | Driven Wheel              |           | 1    |
| 172       | ECB-1422V-B172 | Front Coolant Tray        |           | 1    |
| 173       | TS-2246082     | Socket Hd Button Screw    | M6x8L     | 2    |
| 174       | ECB-1422V-B174 | Blade Guide Block (Front) |           | 1    |
| 175       | TS-1503041     | Socket Hd Cap Screw       | M6x16L    | 1    |
| 176       | TS-1540071     | Hex Nut                   | M10       | 2    |
| 177       | TS-2361101     | Lock Washer               | M10       | 2    |
| 178       | ECB-1422V-B95  | Bearing Bushing (Short)   |           | 1    |
| 179       | ECB-1422V-B96  | Bearing Bushing (Long)    |           | 1    |
| 180       | BB-6201        | Bearing                   | BB6201    | 2    |
| 181       | ECB-1422V-B98  | Bearing Shaft (Long)      |           | 1    |
| 182       | ECB-1422V-B99  | Bearing Shaft (Short)     |           | 1    |
| 183       | TS-1504091     | Socket Hd Cap Screw       | M8x45L    | 1    |
| 184       | ECB-1422V-B184 | Guide Pin                 |           | 1    |
| 185       | ECB-1422V-B185 | Guide Spring              |           | 1    |
| 186       | ECB-1422V-B186 | Guide Screw               |           | 1    |
| 187       | ECB-1422V-B187 | Carbide Guide (L/F)       |           | 1    |
| 188       | ECB-1422V-B188 | Carbide Guide (R/F)       |           | 1    |
| 189       | SP-515         | Spring Pin                | 5x15L     | 1    |
| 190       | ECB-1422V-B190 | Bracket Shaft             |           | 1    |

| Index No. | Part No.       | Description            | Size      | Qty. |
|-----------|----------------|------------------------|-----------|------|
| 191       | BB-6000        | Bearing                | 6000      | 2    |
| 192       | ECB-1422V-B192 | Upper Bracket          |           | 2    |
| 193       | ECB-1422V-B193 | Bearing Shaft          |           | 2    |
| 194       | ECB-1422V-B194 | Blade Guard            |           | 1    |
| 195       | TS-2246082     | Socket Hd Button Screw | M6x8L     | 1    |
| 196       | ECB-1422V-B196 | Blade                  | 34Wx4880L | 1    |
| 197       | ECB-1422V-B197 | Blade Cover            |           | 1    |
| 198       | TS-1540041     | Hex Nut                | M6        | 2    |
| 199       | ECB-1422V-B199 | Screw Casing           | 8x80L     | 2    |
| 200       | TS-1550041     | Flat Washer            | M6        | 2    |
| 201       | ECB-1422V-B201 | Handle                 | SK34      | 2    |
| 202       | ECB-1422V-B202 | Hex Cap Screw          | M6x100L   | 2    |
| 203       | ECB-1422V-B203 | Handle                 |           | 1    |
| 204       | TS-2246122     | Socket Hd Button Screw | M6x12L    | 2    |
| 205       | ECB-1422V-B205 | Fixed Block            |           | 2    |
| 206       | TS-2248302     | Socket Hd Button Screw | M8x30L    | 4    |
| 207       | ECB-1422V-B207 | Pin                    | 8x70      | 2    |
| 208       | ECB-1422V-B208 | Swiveling Latch        |           | 2    |
| 209       | TS-2246162     | Socket Hd Button Screw | M6x16     | 4    |
| 210       | TS-2245102     | Socket Hd Button Screw | M5x8L     | 2    |
| 211       | ECB-1422V-B211 | Blade Guard            |           | 1    |
| 212       | TS-1512011     | Socket Hd Flat Screw   | M4x10L    | 2    |
| 213       | ECB-1422V-B213 | Locking Latch          |           | 1    |
| 214       | ECB-1422V-B214 | Brush Cover            |           | 1    |
| 215       | TS-2246082     | Socket Hd Button Screw | M6x8L     | 2    |



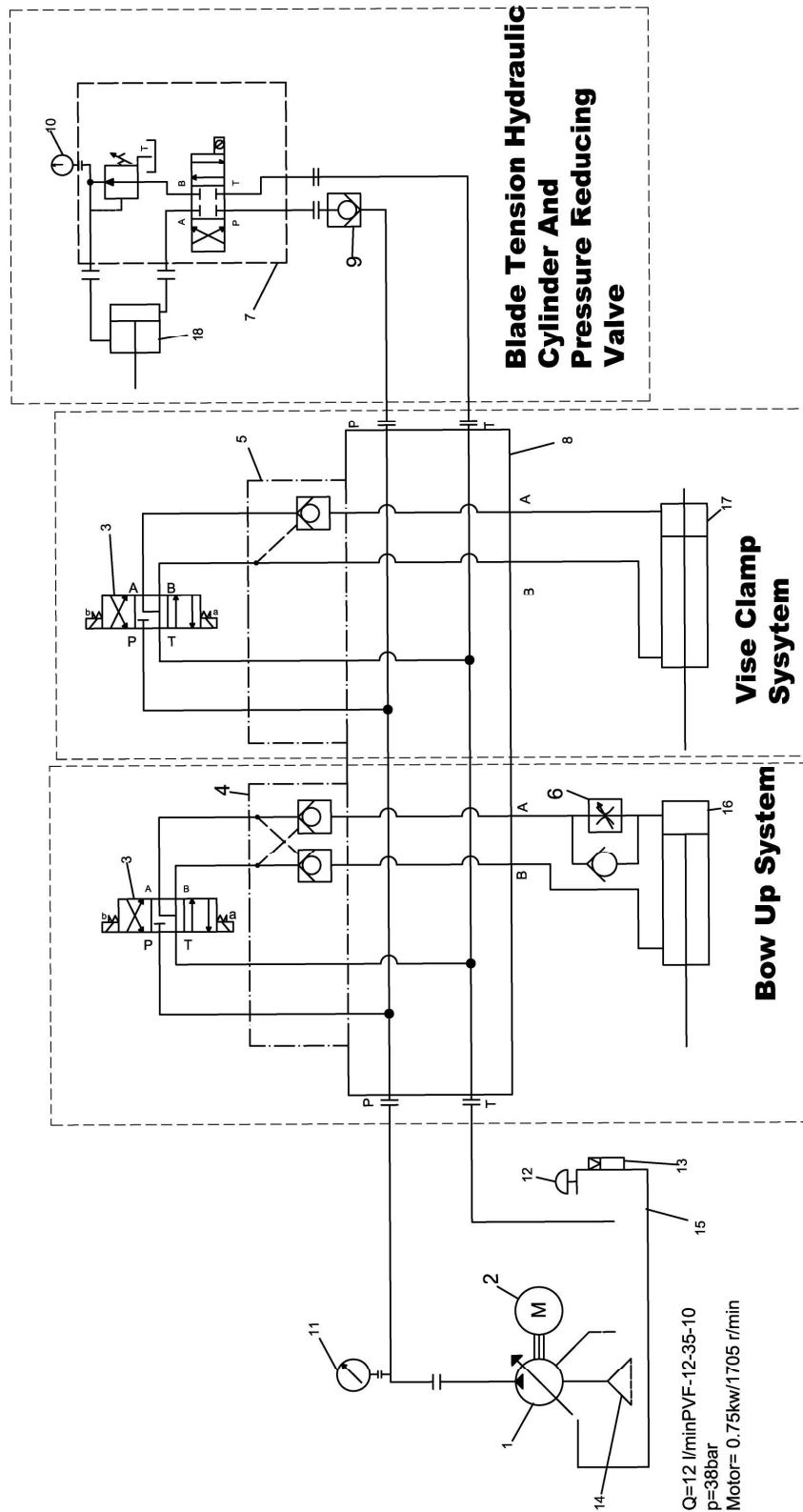
## ELECTRICAL BOX ASSEMBLY — ECB1422V



## PARTS LIST ELECTRICAL BOX ASSEMBLY — ECB1422V

| Index No. | Part No.         | Description                                             | Size                                        | Qty. |
|-----------|------------------|---------------------------------------------------------|---------------------------------------------|------|
| 1         | ECB1422V-SB6     | Emergency Stop Switch (SB6)                             |                                             | 1    |
| 2         | ECB1422V-PL      | Power Lamp (PL)                                         |                                             | 1    |
| 3         | ECB1422V-SA2     | Coolant Pump Selectric Switch (SA2)                     |                                             | 1    |
| 4         | ECB1422V-SB1     | Blade Off Push Button Switch (SB1)                      |                                             | 1    |
| 5         | ECB1422V-SB3     | Bow Up Push Button Switch (SB3)                         |                                             | 1    |
| 6         | ECB1422V-SA4     | Main/ Auto Switch (SA4)                                 |                                             | 1    |
| 7         | ECB1422V-E7      | Bow Feed Valve                                          |                                             |      |
| 8         | ECB1422V-SB5     | Oil Pump Push Button Switch (SB5)                       |                                             | 1    |
| 9         | ECB1422V-SB2     | Blade On Push Button Switch (SB2)                       |                                             | 1    |
| 10        | ECB1422V-SB4     | Bow Down Push Button Switch (SB4)                       |                                             | 1    |
| 11        | ECB1422V-SA3     | Vise Open/ Close Selectric Switch (SA3)                 |                                             | 1    |
| 12        | ECB1422V-FR      | Overload Relay For Main Motor (FR1)                     | NTH-17                                      | 1    |
|           | ECB1422V-FR-460  | Overload Relay For Main Motor - 460V                    | NTH-8                                       |      |
| 13        | ECB1422V-KMC18D  | Magnetic Switch (KM1)                                   | C18D                                        | 1    |
| 15,16     | ECB1422V-KMC12D  | Magnetic Switch (KM 2,3)                                | C12D                                        | 2    |
| 13-1      | ECB1422V-KM1-A   | Auxiliary Block (KM1-A)                                 | CA1-D22(2A2B)                               | 1    |
| 14        | ECB1422V-FR2     | Overload Relay For Coolant Pump (FR2)                   | NTH-0.75                                    | 1    |
|           | ECB1422V-FR2-460 | Overload Relay For Coolant Pump - 460V                  | NTH-0.5                                     |      |
| 16-1      | ECB1422V-KM3-A   | Auxiliary Block (KM3-A)                                 | CA1-D11(1A1B)                               | 1    |
| 17        | ECB1422V-FR3     | Overload Relay For Oil Pump (FR3)                       | NTH-4                                       | 1    |
|           | ECB1422V-FR3-460 | Overload Relay For Oil Pump - 460V                      | NTH-2.5                                     |      |
| 18        | ECB1422V-QC      | Power Supply (PC)                                       | 110 to DC24V                                | 1    |
| 19        | ECB1422V-TB      | Terminal Block (TB)                                     | 2.5mm <sup>2</sup> /20A/600V                | 1    |
| 20        | ECB1422V-QS      | Safety Door Lock Main Switch (QS)                       | 2ABB OT-25F3                                | 1    |
| 21-22     | ECB1422V-KR      | Relay (KR1/ KR2)                                        | MY2N-AC24V                                  | 2    |
| 23-24     | ECB1422V-FU1     | Fuse (FU1,2)                                            | 2A                                          | 2    |
| 25        | ECB1422V-FU3     | Fuse (FU3)                                              | 3A                                          | 1    |
| 26        | ECB1422V-FU4     | Fuse (FU4)                                              | 5A                                          | 1    |
| 27        | ECB1422V-FU5     | Fuse (FU5)                                              | 1A                                          | 1    |
| 28        | ECB1422V-TR      | Transformer (TR)                                        | 262VA INPUT<br>230/460, OUTPUT:<br>110V/24V | 1    |
|           | ECB1422V-FTB     | Fuse Terminal Blocks For Primary Side (FTB not shown)   |                                             | 2    |
|           | ECB1422V-FTB1    | Fuse Terminal Blocks For Secondary Side (FTB not shown) |                                             | 3    |
| 29        | ECB1422V-CPP     | Control Panel Plate                                     |                                             | 1    |

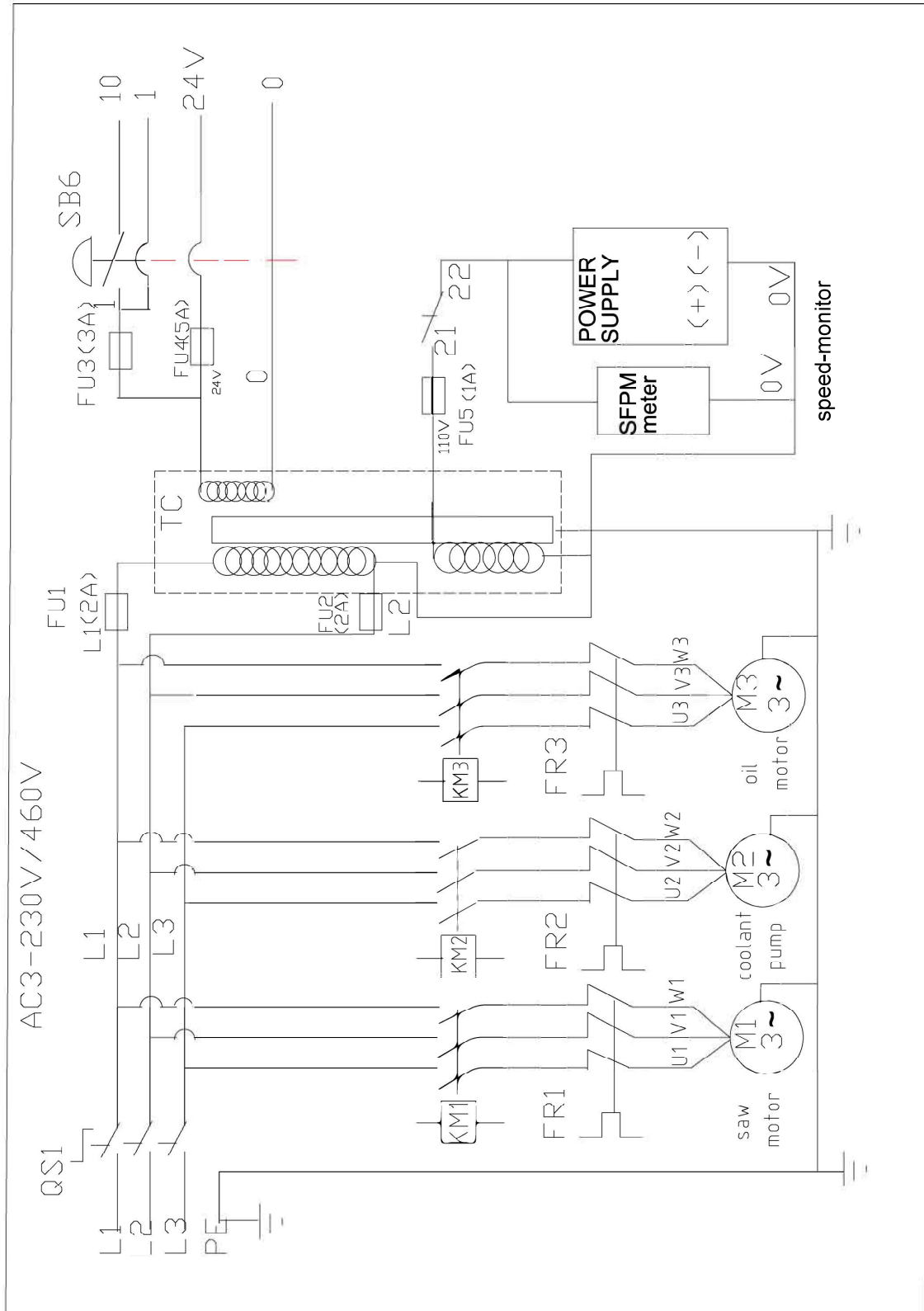
## HYDRAULIC SYSTEM — ECB1422V

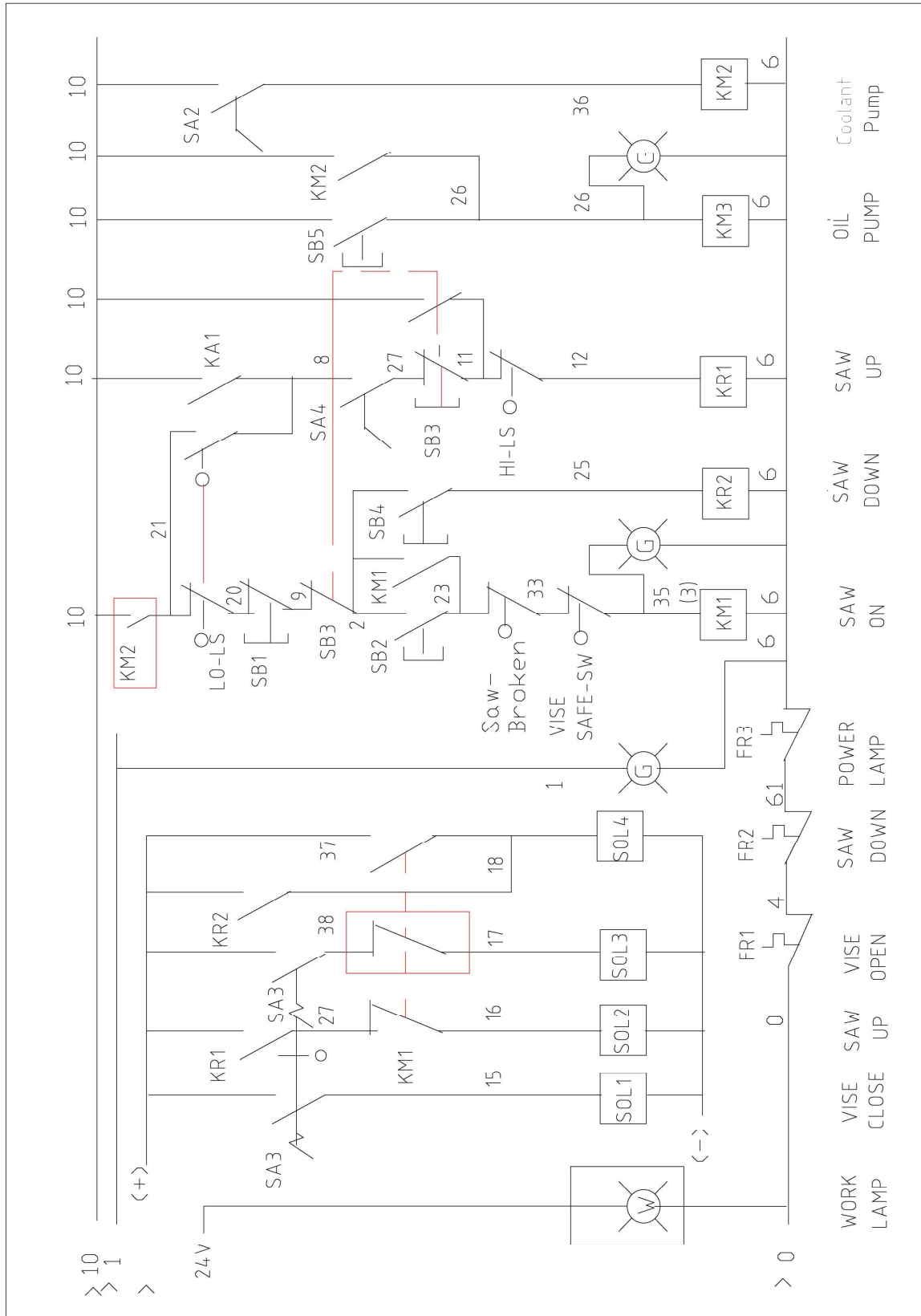


## PARTS LIST HYDRAULIC SYSTEM — ECB1422V

| Index No. | Part No.      | Description                          | Size                 | Qty. |
|-----------|---------------|--------------------------------------|----------------------|------|
| 1         | ECB-1422V-D1  | Motor                                | 1HP/4P/230/460V 3Ph  | 1    |
| 2         | ECB-1422V-D2  | Oil Pump                             | PVF-12-35-10         | 1    |
| 3         | ECB-1422V-D3  | Oil Pressure Valve                   | DFA-02-3C4-A110V     | 2    |
| 4         | ECB-1422V-D4  | Check Valve                          | MPC-02W              | 1    |
| 5         | ECB-1422V-D5  | Check Valve                          | MPC-02A              | 1    |
| 6         | ECB-1422V-D6  | Bow Down Control Valve               | FNC-G02-6            | 1    |
| 7         | ECB-1422V-D7  | Blade Tension Control Valve          | RDH-P02-H            | 1    |
| 8         | ECB-1422V-D8  | Oil Board                            | G02-2                | 1    |
| 9         | ECB-1422V-D9  | Check Valve Fitting                  | 1/4PF*1/4P           | 1    |
| 10        | ECB-1422V-D10 | Blade Tension Gauge                  | 2.5"-100KG/cm2       | 1    |
| 11        | ECB-1422V-D11 | Oil Pressure Gauge                   | 124.21.222-100KG/cm2 | 1    |
| 12        | ECB-1422V-D12 | Cover For Oil Tank                   | FB-06S               | 1    |
| 13        | ECB-1422V-D13 | Oil Level Meter                      | LA-40                | 1    |
| 14        | ECB-1422V-D14 | Oil Filter Net                       | MFC-03               | 1    |
| 15        | ECB-1422V-D15 | Oil Tank                             | 20L                  | 1    |
| 16        | ECB-1422V-D16 | Bow Up/ Down Oil Hydraulic Cylinder  |                      | 1    |
| 17        | ECB-1422V-D17 | Vise Oil Hydraulic Cylinder          |                      | 1    |
| 18        | ECB-1422V-D18 | Blade Tension Oil Hydraulic Cylinder |                      | 1    |

## 17.0 WIRING DIAGRAM







## NOTES