532215

BANDSAW HORIZONTAL & VERTICAL 150 X 115MM



INSTRUCTION MANUAL

PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS TOOL.

CONSUMER SERVICE CENTRE
PO BOX 1012
HAMILTON NSW 2303 AUSTRALIA
Made in P.R.C.



SAFETY

- 1. Know your bandsaw. Read the operator 's Manual caref ully. Learn the operations, applications and limitations.
- 2. Use recommended accessories. Improper aoclxsorics may be ha?ardous.
- 3. Wear propr apparel.
- 4. Keep unnecessary people away.
- 5. Don't verreach or stand on tool.
- 6. Avoid dangerous environment. Don't use bandsaw in damp or wet locations. keep work area well lighted.
- 7 .Keep work area clean. Cluttered and slippery noors invite accidents.
- 8. Remove adjusting keys and wrcnch«s from bandsaw before turning on power.
- 9. Avoid accidental starting. Make sure switch is ofl before plugging in power cord.
- 10. Don't foree bandsaw. It is safe to operate at the cutting rate for which it was designed.
- 11. Be specially careful whm using bandsaws in vertical position to keep fingers and hands out of the path of blade, both above and beneath the table.
- 12. Never hand hold the material with saw in horizontal position. Always use the vise, clamp securely.
- 13. Keep belt guard and wheel covers in place and in working order.
- 14. Support long, heavy work from the noor.
- 15. Always remember to switch ofl thc machine when the work is completed.
- 16. Disconnicct power cord before adjusting. servicing and changing blade.
- 17. Check damaged parts. Damaged parts must bc r 中组 ced or repaired.
- 18. Moving parts should keep in alignment. All adjustmems are to be made with power disconnected.
- 19. Use a sharp blade and keep tool clean for best and sakst performance.
- 20. Safety is a combination of operator's common sense and. Alertness at all times whm the saw is functioning.
- 21. Keeping the bandsaw in top condition is essential for safety.

FEATURES

- 1. Special designed horizontal and vertical band saw.
- 2. Offers three speeds for cutting metal plastic or wood.
- 3. Shuts ofl automatically when material is cut.
- 4. With scale for the mitering vise.
- 5. No noise while operating.
- 6. Castcrs (optional) quick and easy moving



SPECIFICATIONS

1. Capacity : 41/2"(l15mm) round

4x6"(100mmx 150mm) rectangular

2. Speeds : 24-36-61m/min 60HZ (20-29-50m/min50HD

3. Motor : I/3HP or I/2HP 1700 RPM 60HZ (1400 RPM 50HZ) 4. Blades : 1/2"X. 025"X64 1/2"(12. 5nunx0. 64mmx 1638mm)

5. Blade vnlals : 73/8(187mm) High strength flangcd cast iron..

ASSEMBLY

1. Assemble stand legs on Band Saw Base. Assembly diagram

2. Assemble handle vice wheel, ti8htcn sct screw.

BLADE GUIDE BEARING ADJUSTM ENT

This is the most important adjustment on your saw. It is impossible to get satisfactory work from your saw « the blade guides are not properly adjusted. The blade guide bearings for your Metal cutting Bandsaw are adjusted and power tested with several test cuts before leaving the factory to insure proper setting. The need for adjustment should rarely occur when the saw is used properly. If the guides do get out of adjustment, it is extremely important to readjust immediately. If proper adjustment is not maintained, the blade will not cut straight and if the situation is not corrected, it will cause blade damage.

Because guide adjustment is a critical factor in the performance of your saw, it is always best to try a new blade to see if this will conect poor cutting before beginning to adjust the bearings. If a blade becomes dull on one side sooner than the other, for example, it will begin cutting crooked. A simple blade change should correct this president more difficult guide adjustment will not. If a new blade does not correct the problem, check the blade guides for proper spacurg.

There should be 0. 001" clearance betwn the 0. 025"thickness blade and guide bearings. To obtain this clearance adjust as foulws

I. The inner guide bearin8 is fixed and cannot be adjusted.



- 2. The outer guide bearing is mounted to an eccentric bolt and can be adjusted.
- 3. Mosen the nut while holding the bolt with a wrench.
- 4. Position the eccentric by turning the bolt to the desired position of clearance.
- 5. Tighten the nut.
- 6. Adjust the second blade guide bearing in the same manner.
- 7. The back edge of the blade should just touch the lip of the Blade Guide Bearing.

BLADE GUIDE ASSEM BLY ADJUSTMENT

The Metal Cutting Bandsaw is equipped with two adjustable blade guide assemblies. This feature will permit you to adjust the position of the blade guides for varipus widths of workpicces.

To effect the most accurate cut and prolong the life of the blade. The blade guide assemblies should be adjusted to just clear the piece to be cut. This is done as follows

- 1. Place the workpiece in the vise of bandsaw and clamp tightly.
- 2. Adjust catch blade guide assembly to the desired position by loosening the hand knobs and positioning the guides as required.
- 3. Tighten the hand knobs.

ADJUSTING BLADE TENSION

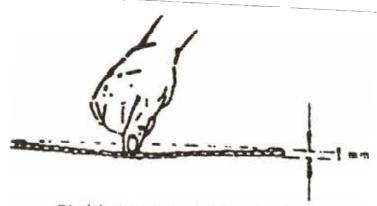
- 1. Make sure the motor is shut ofF.
- 2. Press the blade lightly with the

left hand, make the rear blade

against the nange of blade wheel and test the blade tension.

3. Adjust the blade tension adjus-

table knob with the right hand until the blade obtain the proper tension.



Fig(1) Adjusting Blade Tension

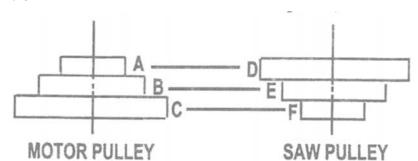
CHANGING SPEED

When using your Band Saw, always change the blade speed to best suit the material being cut. The material cutting chart is shown in fig (2).

Cut ofl power. Open the pulley guard cover. Loosen the lead screw (. 98.), you are now



as ins-bcfone. When the tension of belt is well adjusted, lock the motor lirmly. Close the pulley guard cover



| Material | Speed (m/min) | | erial Speed (m/min) Belt Groove Used | | ove Used |
|-----------------|---------------|------|--------------------------------------|------------|----------|
| | 50Hz | 60Hz | Motor puml | Saw Puïley | |
| Stainless or | 20 | 24 | Small A | Large D | |
| Alloy Steel | | | | | |
| Bearing Bronzes | | | | | |
| Mild Steei Hard | 29 | 36 | Medium B | Medium E | |
| brass or Bronze | | | | | |
| Soft Brass | 50 | 61 | Large C | Small F | |
| Aluminum and | | | | | |
| other materials | | | | | |

Fig (2) Material Cutting Chart

BLADE SELECTION

- I. Special note: $1(112 \, ^{\circ} \, \text{xo.} \, 025\text{"X}64\text{\tiny{I/Z}}\text{min}$, $651\text{\tiny{I/Z}}\text{max}$) 14 tooth per inch general we blade is furnshed with the metal cutting Band Saw. Additional blades in IO and 14 tooth sizes are available.
- 2. The choice of blade pitch is governed by the thickness of the work to be cut; the thinner the workpiece, the more teeth advised. A minimum of 3 teeth should be in the workpiece at all times for proper cutting.
- 3. If the teeth of the blade are so far apart that they straddle the work, severe damage



to the workpiece and to the blade can result.

CH ANGING BLADE

Raise saw head to vertical position. Loosen blade tension adjustable knob sufficiently to allow the saw blade to slip oIT the wheels. Instau the new blade as follows:

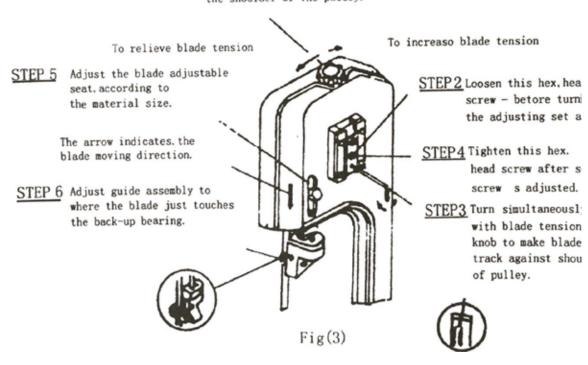
- I. Place the blade in between each of guide bearing.
- 2. Slip the blade around the motor pulley (bottom) with the left hand and hold in position.
- 3. Hold the blade taut against the motor pulley by pullins the blade upward with the right hand which is placed at the top of the blade.
- 4. Remove left hand from bottom pulley and place it at the top side of the blade to continue the application on the upward pull on the blade.
- 5. Remove ńght hand from blade and adjust the position of the top pulley to permit left hand to slip the blade around the pulley using the thumb, index and little finger as guides.
- 6. Adjust the blade tension knob clockwise until it is just right enough so no blade slippage occure. Do not tighten excessively.
- 7. Place 2-3 drops of oil on the blade.
- 8. Replace the blade guard.

ADJUSTING THE BLADE TRACKING

This adjustment has been completed and power-tested at the factory. The need for adjustment should rarely occur when the saw is used properly. If the tracking goes out of adjustment the blade will leave the wheel and damage will result. The method of adjustment is listed below.



STEP 1 Turn simultaneously with adjusting set screw to make the blade track against the shoulder of the pulley.



HORIZONTAL CU-G OPERATION

Before operating, please read instruction manual and examine every part including spd. Blade selection, guide assemble position, etc. Operation is as follows:

WORK SET UP

- 1. Raise the saw head to the vetical position.
- 2. Open the vise to accept the piece to be cut by rotating the wheel at the end of the base (counter clockwise).
- 3. Place the workpiece on the saw bed. If the piece is long, support the end.
- 4. Clamp the workpiece secwely in the vise by rotating the hand wheel clockwise.

CUTTING

Close switch, letting the head down slowly onto the work, Do not drop or force. Iet the weight of the saw head provide the cutting force. The saw automatically shuts oft at the end of the cut.



Method of adjusting blade:

- A. Lossen the screw #11.
- B. Adjust the blade adjustable seat #64 to make the blade vertical to bcd.
- c. Place the square on the bed to check if the blade is vertical, if not, repeat the process A to c.
- D. Tighten the screw #11.

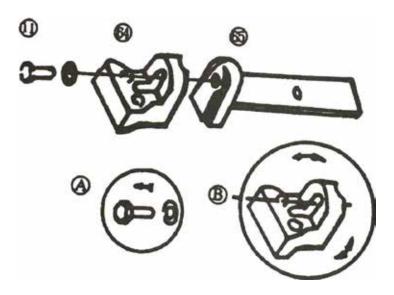


Fig (4) Adjusting the blade

LUBRICATION

Lubńcate the following components using Lubńcant, L-HV32

- 1. Ball beańng-none.
- 2. Blade guide bearing-none.
- 3. Driven wheel bearing-none.
- 4. Vise lead screw-as needed.
- 5. The drive gears run in the oil bath and will bot require a lubricant chanege more often then once a year. When needing a change, mt put down the htad to a Horizontal Position, then loosen 4 screw (#75) of the gear box open the cover (#93). Placing a pan under the tight lower comer of the gear box, slowly raise the head until the oil nows out, Lower head. Then wipe up exem od and foreign matter with soft rags. Then add lubricant into the box until it is full and not flow over. Close the cover, tighten 4 screws.

THE VERHCAL CUTHNG PLATE ASSH

Steps for assembling



1. Loosen the A. B. C. three screws from the blade guide. ${\sf Z}$

And take away the part "D"

2. To lock the vertical cutting plate stand on the valve.

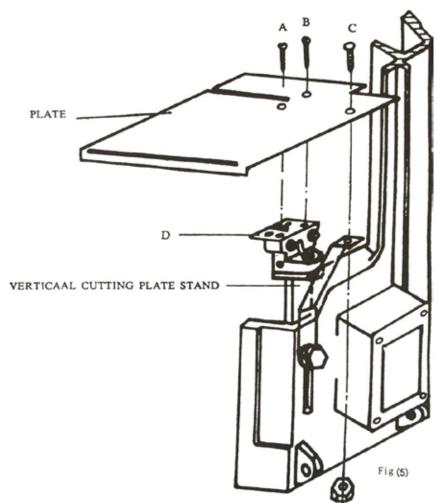
3. To put the phte on the guide and vertica \ cutting

plate stand, then lock the A. B. C. three screws.

- 4. Please operate the vertica \ cutting.
- 5. Use the miler gauge in the work table grooves to obtain any angle np to 4S degree either left or right. CAUTION-The usc of any other accessorises maybe hazardous.

CAUTION-Always use push sticks particularty when.

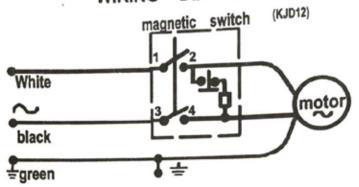
cutting small pieces.





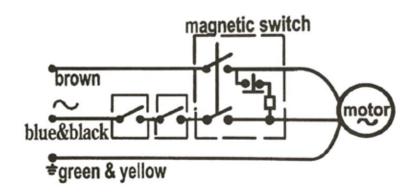
110-120V/60Hz

WIRING DIAGRAM



230V/50Hz

WIRING DIAGRAM



WIRING DIAGRAM magnetic switch brown black&blue black yellow



| symptom | Possible Cause (s) | Corrective Action |
|-----------------|--|--------------------------------|
| | 1. Material loose in vise | 1. Clamp work securely |
| Excessive Blade | 2. IncorTect speed or | 2. Adjust spM or feed |
| Breakagc | 3. Blade teeth spacing too | 3 .Replace with a small teeth |
| | large | spacing blade |
| | 4. Material too coarse | 4.Use a blade of slow speed |
| | 5. Incorrect blade tension | and small teeth spacing |
| | 6. Teeth in contact with | 5. Adjust tb where blade just |
| | material before saw | does not slip on wheel |
| | started | 6. Place blade in contact with |
| | 7. Blade rubs on wheel | work after motor is started |
| | Hange | 7. Adjust whl alignment |
| | 8. Misaligned guide | 8. Adjust guide bearings |
| | bearings | 9. Weld again, note the weld |
| | 9. Cracking at weld | skill |
| | | |
| | | |
| | I. Teeth too coarse | 1. Use finer teeth |
| Premature Blade | 2. Too much sp | 2 . Decrease speed |
| Dulling | 3. Inadequate feed press | 3. Decrease spring tension on |
| | ure | side of saw |
| | 4 Hard spots or scale | 4. Reduce speed, increase |
| | on material | feed pressure |
| | 5. Work hardening of | 5. Increase leed pressure by |
| | material | reducing spring tension |
| | 6. Blade twist | 6. R 中 lace with a new blade, |
| | 7. Insufficient blade | and adjust blade tension |
| | | 7. Tighten blade tension |
| | | adjustable knob |
| | | |
| | 1 Plado quidES WOPN | 1. Relace |
| Unusual Wear or | Blade guidES WORN Blade guide bearings | |
| | | 2. Adjust as per operators |
| Sidepack of | not adjusted properly | manual |
| Blade | 3. Blade guide bearing | 3 . Tighten |
| | bracket is loose | |
| | | |



| symptom | | Corrective Action |
|---------------|-----------------------------|--------------------------------|
| | | |
| | Possible Cause (s) | |
| : . | 1 = .i | |
| Teeth Ripping | 1. Tooth too coarse for | 1. use finer tooth blade |
| from Blade | work | 2. Decrease pressure, |
| | 2. Too heavy pmure, | increase speed |
| | too slow speed | 3. Clamp work ptecc securely |
| | 3. Vibrating workpiece | 4. Use coarser tooth |
| | 4.Gullets loading | blade or brush to remove chips |
| Motor nuuling | 1. Blade tension too high | 1.Reduce tension on blade |
| , | 2. Drive belt tension too | 2.Reduce tension on drive |
| too bot | Mgh | belt |
| | 3. Gears need lubrication | 3.Check oil oath |
| | 4. Cut is binding blade | 4.Decrease feed and speed |
| | 5. Gears alligned improp- | 5.Adjust gears so that worm |
| | erly | is in center of gear |
| | 1. Feed pressure too great | 1.Reduce pressune by |
| Bad Cuts | 2. Guide bearings not | incrcasinB spring tension |
| | adjusted properly | on side of saw |
| (Cr (x) ked) | 3. Inadequate blade tension | 2.A4just guide bearing, thc |
| | 4. Dull blade | clearance can not greater |
| | 5. Speed incorrect | that. 001 |
| | 6. Blade guides spaced out | 3.Increase blade tensior'by |
| | too much | adjust blade tension |
| | 7. Blade guide assembly | 4.Replace blade |
| | loose | 5.Adjust speed |
| | 8. Blade truck too far | 6Adjust guides space |
| | away from wheel flanges | 7.Tishten |
| | | 8.Retrack blade according to |
| | | operating instructions |
| Bad Cuts | 1. Too much speed or feed | Descrease speed or feed |
| (Rough) | 2. Blade is too coarse | 2. Replace with Hncr blade |
| (| 3. Blade tension loose | 3. Adjust blade tension |
| | | |
| Blade is | 1.Cut is binding blade | 1 Decrease feed proceure |
| plaue is | | 1. Decrease feed pressure |
| twisting | 2.Too much blade tension | 2. Dccrcasc blade tension |
| wisting | | 2. Decrease blade telision |
| | | |
| | | |



PARTS LIST

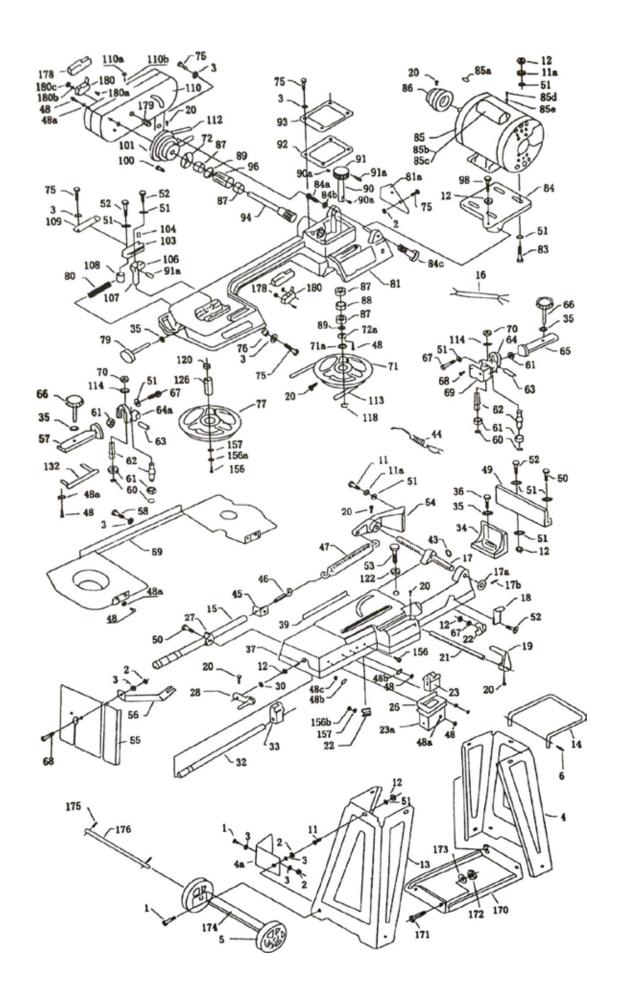
| Item Description | | Qty Part No. |
|------------------|-----------------------|--------------|
| 1 | Hex. Head Screw | 8 |
| 2 | Hex. Nut | 11 |
| 3 | Washer | 25 |
| 4 | Floor Stand (Right) | 1 |
| 4a | Fixed Plate | 4 |
| 5 | Wheel Assy (Uptional) | 2 |
| 6 | Cotter Pin | 2 |
| 11 | Hex. Head Screw | 8 |
| 11a | Spring Washer | 6 |
| 12 | Hex. Nut | 15 |
| 13 | Floor Stand (Left) | 1 |
| 14 | Floor Stand | 1 |
| 15 | Adjusting Rod | 1 |
| 16 | Electric Cord | 1 |
| 17 | Pivoting Rod | 1 |
| 17a | Washer | 1 |
| 17b | Pin | 1 |
| 18 | Support Plate | 1 |
| 19 | Stock Stop | 1 |
| 20 | Hex. Skt Head Screw | 6 |
| 21 | Stock Stop Rod | 1 |
| 22 | Wire Relief Retainer | 2 |
| 23 | Switch | 1 |
| 23a | Switch Box | 1 |
| 26 | Switch Panel | 1 |
| 27 | Asj. Rod Support | 1 |
| 28 | Hand Wheel | 1 |
| 30 | Thrust Washer | 1 |
| 32 | Lead Screw | 1 |
| 33 | Vise Nut | 1 |
| 34 | Movable Vise Plate | 1 |
| 35 | Washer | 4 |
| 36 | Hex.Head Screw | 1 |
| 37 | Bed | 1 |
| 39 | Scale | 1 |
| 43 | Cable Clamp | 3 |

| Item | Description | Qty Part No. |
|------|------------------------|--------------|
| 44 | Electric Cord | 1 |
| 45 | Nut Plate | 1 |
| 46 | Spring Adj. Screw | 1 |
| 47 | Spring | 1 |
| 48 | Screw | 13 |
| 48a | Washer | 10 |
| 48b | Ext Tooth Washer | 2 |
| 48c | Nut | 1 |
| 49 | Mitering Vise Plate | 1 |
| 50 | Hex. Head Screw | 3 |
| 51 | Washer | 19 |
| 52 | Hex. Head Screw | 2 |
| 53 | Hex. Head Screw | 1 |
| 54 | Pivot | 1 |
| 55 | Vertical Cutting Plate | 1 |
| 56 | Vert. Cut. Plate Stand | 1 |
| 57 | Adj. Bracket (Left) | 1 |
| 58 | Plum Screw | 1 |
| 59 | Blade Safety Cover | 1 |
| 60 | Thrust Washer | 4 |
| 61 | Bearing | 6 |
| 62 | Guide Pivot | 4 |
| 63 | Bearing Shaft Pin | 2 |
| 64 | Blade Adj. Seat | 1 |
| 64a | Blade Adj. Seat (Left) | 1 |
| 65 | Adj. Bracket (Right) | 1 |
| 66 | Brg. Guide Lock Knob | 2 |
| 67 | Spring Washer | 2 |
| 68 | Screw | 3 |
| 69 | Blade Guard | 1 |
| 70 | Hex. Nut | 4 |
| 71 | Blade Wheel (Front) | 1 |
| 71a | Bear Spacer | 1 |
| 72 | Brg. Cover | 1 |
| 72a | Brg. Cover (Front) | 10 |
| 75 | Hex. Head Screw | 1 |
| 76 | Switch Cut Off Tip | 1 |
| 77 | Blade Wheel (Rear) | 1 |



| Item | Description | Qty Part No. | Item | Description | Qty Part N |
|------|---------------------------|--------------|------|-----------------------|------------|
| 79 | Bld Tension Adj.Knob | 1 | 110b | Screw | 1 |
| 80 | Spring | 1 | 112 | Belt | 1 |
| 81 | Body Frame | 1 | 113 | Blade | 1 |
| 81a | Cover | 1 | 114 | Washer | 4 |
| 83 | Hex. Head Screw | 4 | 118 | Thrust Washer | 1 |
| 84 | Motor Mount Plate | 1 | 120 | Spacer | 1 |
| 84a | Eye Bolt | 1 | 122 | Hex. Nut | 1 |
| 84b | Washer | 1 | 126 | Bushing | 1 |
| 84c | Hex. Head Screw | 1 | 132 | Blade Safe Guard | 1 |
| 85 | Motor | 1 | 156 | Rd Nd Cross Skt Screw | 1 |
| 85a | Key | 1 | 156a | Spring | 1 |
| 85b | Capacitor Box | 1 | 156b | Nut | 1 |
| 85c | Capacitor | 1 | 157 | Washer | 1 |
| 85d | Screw | 2 | 170 | Tool Plate | 1 |
| 85e | Washer | 2 | 171 | Hex. Head Screw | 4 |
| 86 | Motor Pulley | 1 | 172 | Hex. Nut | 4 |
| 87 | Ball Bearing | 1 | 173 | Washer | 4 |
| 88 | Bearing Bushing | 3 | 174 | Wheel Stand | 1 |
| 89 | Oil Seal | 1 | 175 | Cotter Pin | 2 |
| 90 | Trans. Wheel Shaft | 1 | 176 | Axle | 1 |
| 90a | Key | 2 | 177 | Switch Assy | 1 |
| 91 | Transmission Gear | 1 | 178 | Cover For Micro Sw. | 2 |
| 91a | Spring Pin | 2 | 179 | Cable Clamp | I |
| 92 | Gear Box Gasket | E | 180 | Micro Switch | 2 |
| 93 | Gear Box Cover | 1 | 180a | Screw | 4 |
| 94 | Worm Gear | 1 | 1806 | Washer | 4 |
| 96 | Bearing Bushing | 1 | 180c | Nut | 4 |
| 98 | Thumb Screw | 1 | | | |
| 100 | Screw | 1 | | | |
| 101 | Worm Gear Pulley | 1 | | | |
| 103 | Bld Tension Sliding Plate | 1: | | | |
| 104 | Hex. Skt Head Screw | 1 | | | |
| 106 | Sliding Plate Draw Blk | t | | | |
| 107 | Blade Wheel Shaft | 1 | | | |
| 108 | Shaft Block | 12 | | | |
| 109 | Blade Tension Guides | 2 | | | |
| 110 | Motor Pulley Cover | 1 | | | |
| 110a | Knot | 1 | | | |







532215 BANDSAW HORIZONTAL & VERTICAL 150 X 115MM



