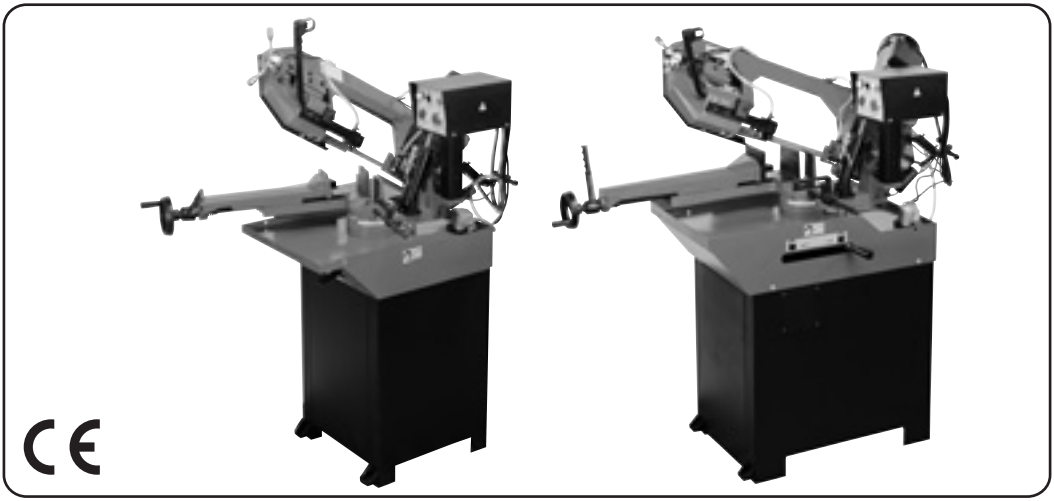
INSTRUCTIONS FOR

230V Metal Cutting Bandsaw

Stock Nos.38010, 38012 Part Nos.MBS210, MBS260

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.



GENERAL INFORMATION

These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product.

Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

1. TITLE PAGE

1.1 INTRODUCTION:

USER MANUAL FOR:

230V METAL CUTTING BANDSAW

Stock nos. 38010, 38012.
Part nos. MBS210, MBS260.

1.2 REVISIONS:

Date first published May 2014

As our user manuals are continually updated, users should make sure that they use the very latest version.

Downloads are available from: http://www.drapertools.com/b2c/b2cmanuals.pgm

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1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

WARNING! Information that draws attention to the risk of injury or death.

CAUTION! Information that draws attention to the risk of damage to the product or surroundings.

1.4 COPYRIGHT © NOTICE:

2. CONTENTS

2.1 CONTENTS

PAGE CONTENT PAGE

3. GUARANTEE

3.1 GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.
Should the tool develop a fault, please return the complete tool to your nearest distributor or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England.
Telephone Sales Desk: (023) 8049 4333 or Product Helpline (023) 8049 4344.
A proof of purchase must be provided with the tool.
If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee period covering parts/labour is 12 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase. The guarantee is extended to 24 months for parts only. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.
Note: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.
This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.
Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period.
Please note that this guarantee is an additional benefit and does not affect your statutory rights.
Draper Tools Limited.

4. INTRODUCTION

4.1 SCOPE

This machine is designed for cutting ferrous materials with tubular, open or filled sections. Any other application is considered mis-use.

4.2 SPECIFICATION

Stock no	38010	38012
Part no	MBS210	MBS260
Motor:		
Rated voltage	230V~	230V~
Rated frequency	50Hz	50Hz
Rated input	900W	1100W
Band rotating speed (no load)	80m/min	72m/min
Maximum cutting capacity		
0° Round	170mm	220mm
0° Square	140x140mm	160x160mm
0° Rectangular	210x140mm	260x110mm
45° Round	120mm	150mm
45° Square	110x110mm	110x110mm
60° Round	70mm	90mm
60° Square	60x60mm	80x80mm
Blade size	0.9x27x2105mm	0.9x27x2460mm
Overall dimensions	1500x800x1620mm	1720x800x1810mm
Sound pressure level	67.8dB(A)	67.8dB(A)
Weight (net)	162kg	220kg
Weight (gross)	220kg	264kg

4.3 HANDLING & STORAGE

The environment will have a negative result on its operation if you are not careful. If the air is damp, components will rust. If the machine is unprotected from dust and debris; components will become clogged: And if not cleaned and maintained correctly or regularly the machine will not perform at its best.

5. HEALTH & SAFETY INFORMATION

5.1 GENERAL SAFETY INSTRUCTIONS FOR POWER TOOL USE

When using any type of power tool there are steps that should be taken to make sure that you, as the user, remain safe.
Common sense and a respect for the tool will help reduce the risk of injury.

Read the instruction manual fully. Do not attempt any operation until you have read and understood this manual.
Most important you must know how to safely start and stop this machine, especially in an emergency.

Keep the work area tidy and clean. Attempting to clear clutter from around the machine during use will reduce your concentration. Mess on the floor creates a trip hazard. Any liquid spilt on the floor could result in you slipping.

Find a suitable location. If the machine is bench mounted; the location should provide good natural light or artificial lighting as a replacement. Avoid damp and dust locations as it will have a negative effect on the machine's performance.
If the machine is portable; do not expose the tool to rain. In all cases do not operate power tools near any flammable materials.

Beware of electric shock. Avoid contact with earthed surfaces; because they can conduct electricity if there is an electrical fault with the power tool. Always protect the power cable and route it away from danger.

Keep bystanders away. Children, onlookers and passers by must be restricted from entering the work area for their own protection. The barrier must extend a suitable distance from the tool user.

Unplug and house all power tools that are not in use. A power tool should never be left unattended while connected to the power supply. They must be housed in a suitable location, away locked up and from children.

Do not overload or misuse the tool. All tools are designed for a purpose and are limited to what they are capable of doing. Do not attempt to use a power tool (or adapt it in any way) for an application it is not designed for. Select a tool appropriate for the size of the job. Overloading a tool will result in tool failure and user injury: This covers the use of accessories.

Dress properly. Loose clothing, long hair and jewellery are all dangerous because they can become entangled in moving machinery: This can also result in parts of body being pulled into the machine.
Clothing should be close fitted, with any long hair tired back and jewellery and neck ties removed. Footwear must be fully enclosed and have a nonslip sole.

5. HEALTH & SAFETY INFORMATION

Wear personal protective equipment (PPE). Dust, noise, vibration and swarf can all be dangerous if not suitably protected against. If the work involving the power tool creates dust or fumes; wear a dust mask. Vibration to the hand, caused by operating some tools for longer periods must be protected against. Wear vibration reducing gloves and allow long breaks between uses. Protect against dust and swarf by wearing approved safety goggles or a face shield. These are some of the more common hazards and preventions; however, always find out what hazards are associated with the machine/work process and wear the most suitable protective equipment available.

Do not breathe contaminated air. If the work creates dust or fumes; connect the machine (if possible) to an extraction system either locally or remotely. Working outdoors can also help if possible.

Move the machine as instructed. If the machine is hand held, do not carry it by the power supply cable. If the product is heavy; employ a second or third person to help move it safely or use a mechanical device. Always refer to the instructions for the correct method.

Do not overreach. Extending your body too far can result in a loss of balance and you falling. This could be from a height or onto a machine and will result in injury.

Maintain your tools correctly. A well maintained tool will do the job safely. Replace any damaged or missing parts immediately with original parts from the manufacturer. As applicable; keep blades sharp; moving parts clean, oiled or greased; handles clean; and emergency devices working.

Wait for the machine to stop. Unless the machine is fitted with a safety brake; some parts may continue to move due to momentum. Wait for all parts to stop; then unplug it from the power supply before making any adjustments, carrying out maintenance operations or just finishing using the tool.

Remove and check setting tools. Some machinery requires the use of additional tools or keys to set, load or adjust the power tool. Before starting the power tool always check to make certain they have been removed and are safely away from the machine.

Prevent unintentional starting. Before plugging any machine in to the power supply, make sure the switch is in the OFF position. If the machine is portable; do not hold the machine near the switch and take care when putting the machine down; that nothing can operate the switch.

Carefully select an extension lead. Some machines are not suitable for use with extension leads. If the tool is designed for use outdoors; use an extension lead also suitable for that environment. When using an extended lead, select one capable of handling the current (amps) drawn by the machine in use. Fully extend the lead regardless of the distance between the power supply and the tool. Excess current (amps) and a coiled extension lead will both cause the cable to heat up and can result in fire.

Concentrate and stay alert. Distractions are likely to cause an accident. Never operate a power tool if you are under the influence of drugs (prescription or otherwise), including alcohol or if you are feeling tired. Being disorientated will result in an accident.

5. HEALTH & SAFETY INFORMATION

Have this tool repaired by a qualified person. This tool is designed to confirm to the relevant international and local standards and as such should be maintained and repaired by someone qualified; using only original parts supplied by the manufacturer: This will ensure the tool remains safe to use.

5.2 SPECIFIC SAFETY INSTRUCTION FOR METAL BANDSAW USE

1. Ensure the blade tension and blade tracking are properly adjusted.
2. Always keep hands and fingers away from the saw blade.
3. Stop the machine before removing scrap pieces from the saw.
4. Ensure the correct blade size and type is used. (See optional accessories).
5. Make all adjustments and set ups with the power off, such as adjusting the blade tracking, tension or guards.
6. All guards must be in there correct position and securely fastened when performing any operation.
7. Securely lock all adjustable parts. This will prevent distraction during operation.

5.3 CONNECTION TO THE POWER SUPPLY

Make sure the power supply information on the machine's rating plate are compatible with the power supply you intend to connect it to.

This product comes supplied with a UK standard 3 pin plug fitted. It is designed for connection to a domestic power supply rated at 230V AC.

It is a Class 2 machine (double insulated); is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.

If an extension lead is required, use an approved and compatible lead rated for this appliance. Follow all the instruction supplied with the extension lead.
This product requires no earth connection as supplementary insulation is applied to the basic insulation to protect against electric shock in the event of failure of the basic insulation.

Apart from replacing the fuse in the plug, no other electrical work is recommended on this product.

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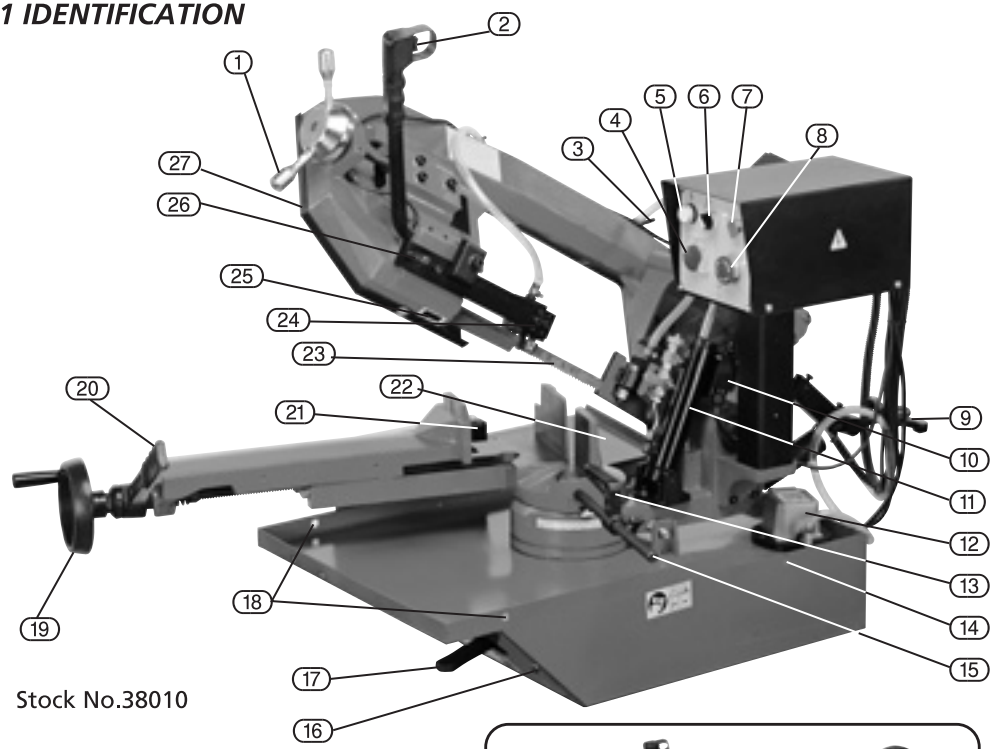
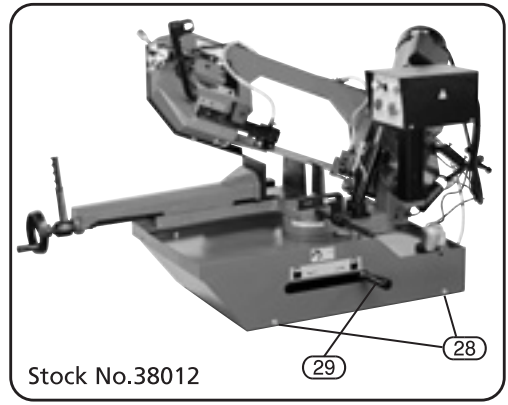
6. TECHNICAL DESCRIPTION

6.1 IDENTIFICATION



Stock No.38010



Stock No.38012

1. Band tension adjustment handwheel.
2. Microswitch.
3. Coolant valve.
4. Mains power switch.
5. Power lamp.
6. Option switch.
7. On/Off switch.
8. Emergency OFF.
9. Bow weight adjuster.
10. Auto Off limit switch.
11. Bow damper cylinder.
12. Coolant pump.
13. Stop bracket.
14. Lifting hole.
15. Stop rod.
16. Access panel fixing.
17. Rotation locking lever.
18. Lifting hole.
19. Vice handwheel.
20. Vice quick lock lever.
21. Feed roller
22. Tray extension
23. Blade (saw band).
24. Fixed blade guide.
25. Blade direction symbol.
26. Adjustable band guide.
27. Blade safety guard.
28. Fix points to base.

7. UNPACKING & CHECKING

7.1 PACKAGING

Carefully remove the product from the packaging and examine it for any sign of damage that may have happened during shipping. Lay the contents out and check them against the parts shown below. If any part is damaged or missing; please contact the Draper Helpline (the telephone number appears on the Title page) and do not attempt to use the product.

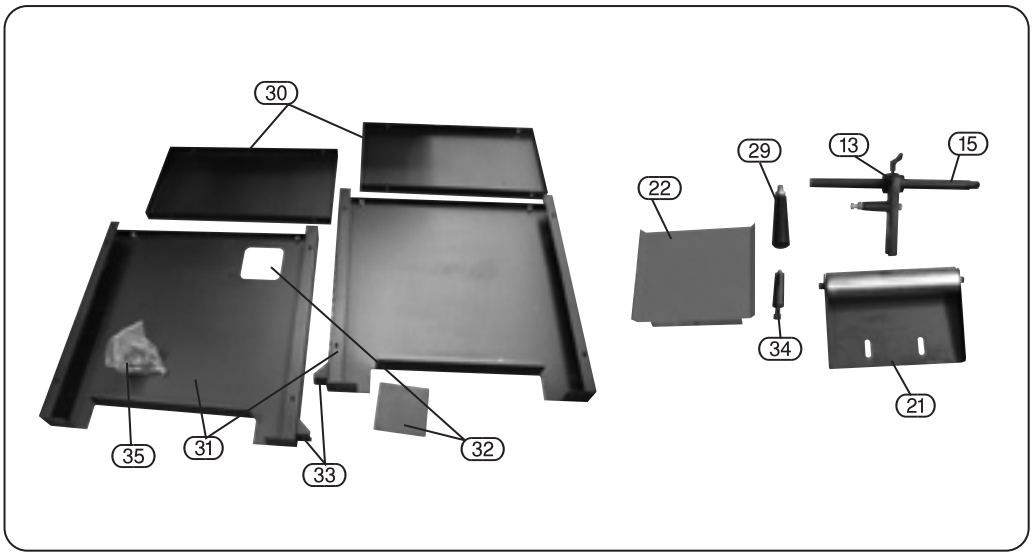
The packaging material should be retained at least during the guarantee period: in case the machine needs to be returned for repair.

Warning! Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.

If any of the packaging is to be thrown away, make sure they are disposed of correctly; according to local regulations.

7.2 WHAT´S IN THE BOX?

As well as the bandsaw; there are several parts not fitted or attached to it.



(13) Stop bracket.
(15) Stop rod.
(21) Feed roller
(22) Tray extension
(29) Rotation locking lever (38012 only)
(30) Stand side panels.
(31) Stand front & back panels.
(32) Access hatch (38012 only).
(33) Floor fixing points.
(34) Vice handwheel handle.
(35) Bag of accessories (hex. keys, bolts & washers.

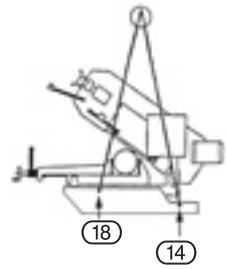
8. PREPARING THE BANDSAW

8.1 HANDLING AND INSTALLATION - FIGS. 1 -2

The bandsaw is usually supplied packaged in plastic or strapped, and palatalised. The machine can be easily moved, loaded or unloaded with a normal fork lift truck of suitable lifting capacity.

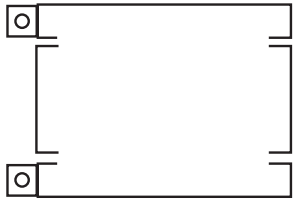
The saw must be lifted using a crane and ropes or chains with a suitable capacity. The ropes or chains must be attached to anchor points (14) at back, and (18) at front of band saw.
NOTE: When in transit do not suspend the saw more than 200mm from the ground, and prepare an adequate space as an escape route in the event that the saw should fall.

FIG. 1



The four base panels need to be assembled together using eight ø8mm bolts and washers, ready to attach the bandsaw on top.

FIG. 2



8.2 ATTACH BANDSAW TO BASE - FIGS. 3 - 4

For stock No.31810:
Remove the access panel fixings (16) and remove panel, this will give access to the underside of machine to enable the bolting of the base to the machine as shown on parts list drawing.

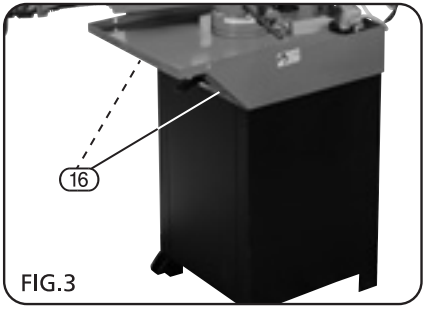


FIG.3

For stock No.31812:
The machine is attached by bolts externally (28).

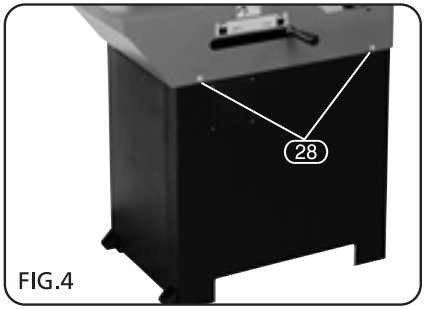


FIG.4

8.3 ANCHOR BANDSAW TO FLOOR

Ensure that there is adequate free space around the machine bearing in mind that it may be necessary to cut from long lengths of steel stock that need to be fed over the roller attached to the back of the machine and that the stock will need to be supported along its length beyond the machine, using a roller stand Draper stock No.13886.

The surface on which the machine is to be mounted should be flat and level and capable of supporting the weight of the machine.

Ensure that the work area is adequately illuminated.

The machine should be located near a power supply point that is equipped with an overload cut out and suitable earthing.

The installation area should be free from excessive heat (0° to 45°), humidity and atmospheric agents that could ignite.

Now that the final work position has been sorted you are ready to fix the bandsaw to the floor.

Lift the whole bandsaw into the final working position and mark the floor through the floor fixing points. Move bandsaws away, drill and fix floor fixings (floor fixings are not supplied).

Reposition machine and bolt bandsaw to the floor.

8.4 REMOVE TRANSIT BRACKET - FIG. 5

Now that the bandsaw is fixed in final position the transport bracket (A) can be removed.
NOTE: Keep bracket, bolts and washers in a safe place, the bracket will need to be re-fitted if the bandsaw is to be moved in the future.

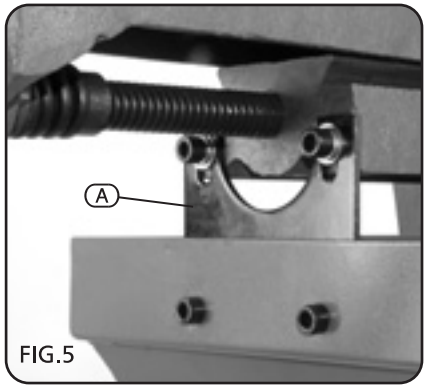


FIG.5

8.5 ASSEMBLE STOP ROD AND BRACKET - FIG. 6

Screw the stop rod (15) into the vice, then slide the stop bracket (13) onto rod, this is set if repetitive cutting lengths are needed.

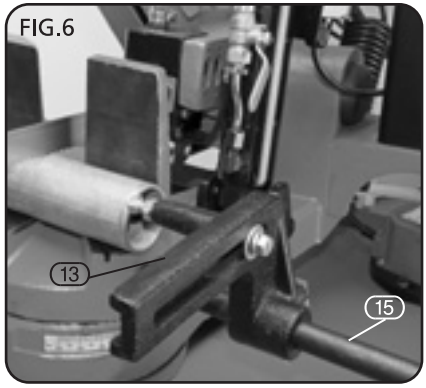


FIG.6

8.6 ATTACH ACCESSORIES - FIG. 7

Before starting to use the bandsaw there are a few accessories to attach to the bandsaw:

1. The roller support (21) should be attached in line with the clamp to support long bars, fixings supplied.
2. There is a tray extension to catch cutting fluid (22) at the back of the machine tray.
3. Vice handwheel handle (34).
4. Rotation locking lever (29) (stock No.31812 only).

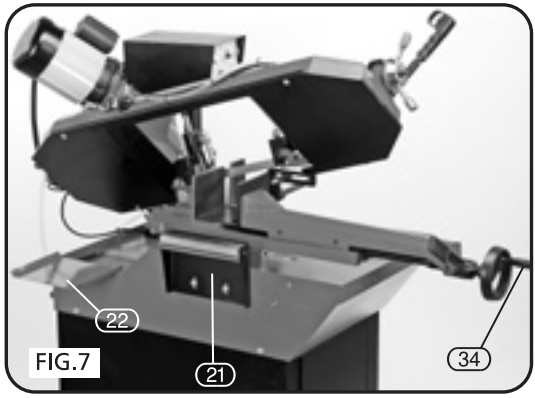


FIG.7

8.7 CLEANING

Clean the machine with a suitable detergent on a damp cloth to remove the protective oils from the machine.

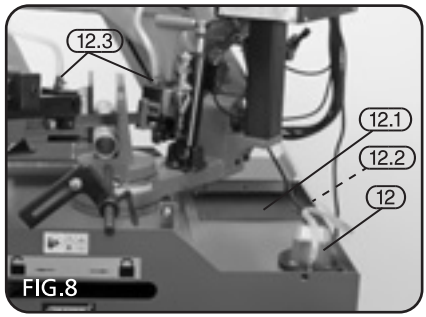
8.8 CONNECT TO ELECTRICAL SUPPLY

Now the machine is fixed in position it is ready to connect to mains power supply.

9. SETTING THE BANDSAW

9.1 COOLANT ADJUSTMENT - FIG. 8

The use of a water soluble coolant will increase cutting efficiency and prolong blade life.
Pour the coolant onto the grill (12.1), down into coolant tank. The coolant is drawn up from the coolant tank by a pump (12). The pump delivers coolant to the valve (3) from there down to the two blade guides (12.3). The dirty coolant then runs into tray, through grill back into tank. When coolant needs replacing because it has become too contaminated it can be removed through the plug (12.2) at back below grill.



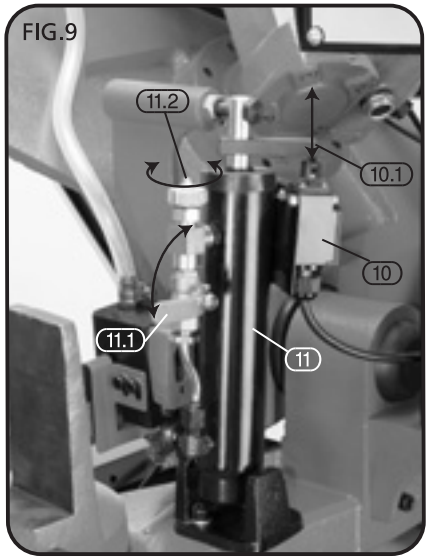
9.2 HYDRAULIC BOW DAMPER - FIG. 9

The rate of descent of the main cutting arm (bow) is controlled by the cylinder (11).

By turning the knob (11.2) clockwise the rate of descent is slowed down.

By turning the knob (11.2) anticlockwise the rate of descent is increased.

The bow can be locked in any position by turning the hydraulic flow off using the tap (11.1). When the tap is at 90° to the cylinder the flow is off and the bow will stop moving.



9.3 AUTOMATIC SHUT OFF

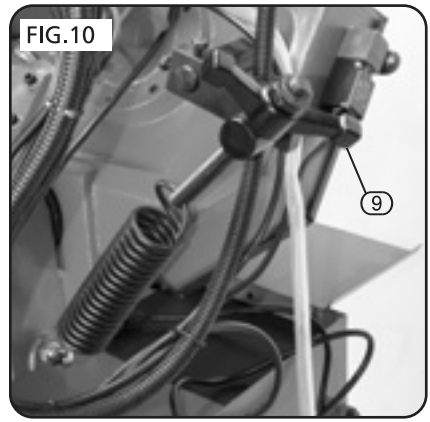
Automatic electric shut off. When the bow reaches its lowest point the actuation arm (10.1) operates the microswitch (10) and the power is shut off bringing the blade to a halt.

9.4 ADJUSTING BOW WEIGHT - FIG. 10

The bow weight is the most important factors to making a clean cut. Bow weight is set at the factory and should not need to be altered.

If performance does suffer then adjustment will be necessary.
Turn the hydraulic cylinder valve on and place the saw arm in the horizontal position.
Turn the feed rate valve at the top of the cylinder anticlockwise until it stops.
Adjust the spring tensioner in to the required setting for the stock being cut (soft aluminium=light weight, hard steel=heavy weight). Turn handle (9) clockwise to lighten the bow.

FIG.10

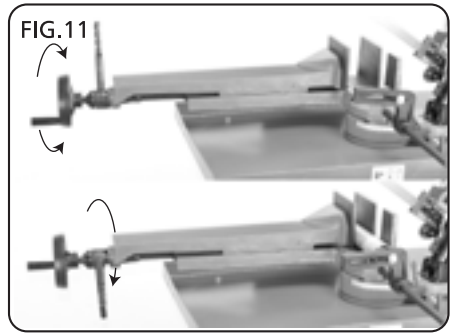


9.5 VICE SET-UP AND ADJUSTMENT - FIG. 11

Lift the bow out of the way and lock there using the hydraulic tap. Place workpiece in the vice up to the stop bracket which has been set at the correct length.
Close jaws up to 2mm of the work piece using hand wheel (19) (with the clamp lever in a vertical position); then using the clamp lever (20) to finish the clamping, moving the clamp lever down anticlockwise.

NOTE: The clamp lever is ideal for repetitive cuts of a long bar in conjunction with the stop bracket.

FIG.11

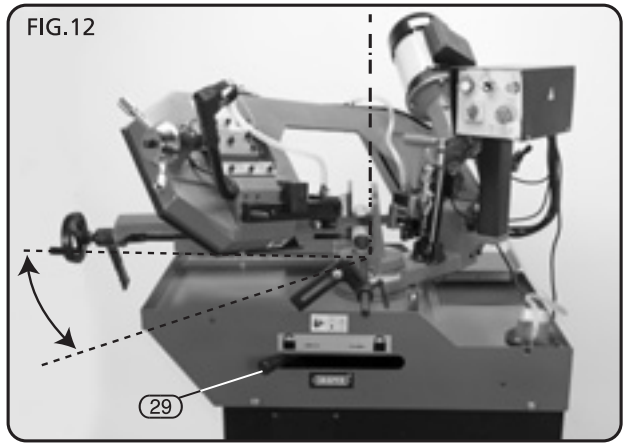


9.6 CUTTING AT AN ANGLE - FIG. 12

To cut at angle, the bow can rotate around the work piece, this is ideal if the work pieces that are very long which can not be moved.

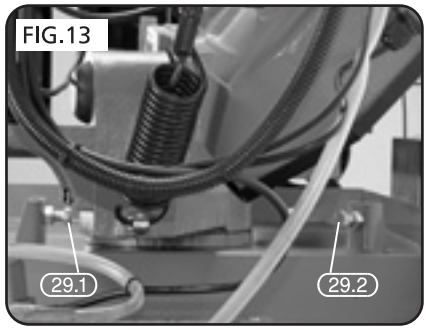
1. The bow raised out the way.
2. The lock lever (29) is move to the unlock position.
3. The bow arm is rotated around to the correct angle 0°- 45°, also 60° can be achieved lifting the bow over an area of solid metal (used to give additional support).
4. The lock lever (29) is moved to the lock position.
5. The bow arm is slowly lowered to checking clearance of blade.

FIG.12



9.7 BOW ARM HORIZONTAL STOPS - FIG. 13

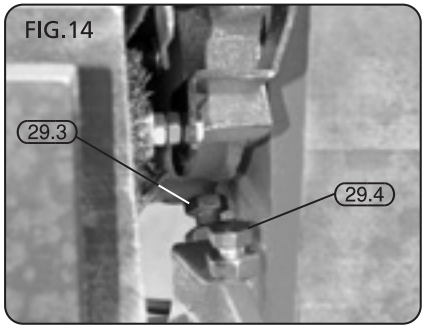
Unlock the lever (29) turn bow arm to the front stop (29.1) this should be at 90° between the blade and vice, this should be checked with a set square.
The back stop (29.2) is set to 60° this is the factory setting.



9.8 BOW ARM VERTICAL STOPS - FIG. 14

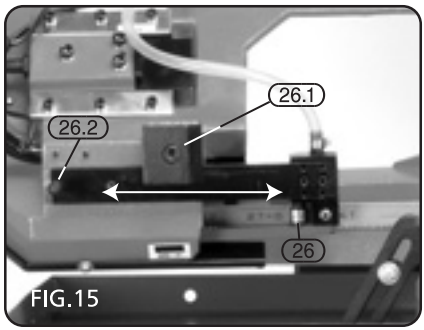
The lower movement stop (29.4) set to stop the blade cutting into the vice.

The upper movement stop (29.3) is factory setting and will not need to be adjusted.



9.9 BLADE GUIDE ADJUSTMENT - FIG. 15

Only one of the blade guides (26) can be adjusted, the hex. bolt (26.1) is loosened with a 10mm hex. key, using the handle (26.2) slide the guide as close as possible to the work piece, then re-tighten the hex. bolt (26.1).



9.10 CHANGING THE BLADE - FIGS. 16 - 18

WARNING! Before carrying out any maintenance or adjustments the machine must be disconnected from the power supply.

The black band safety cover (27) is held in place with four screws and washers (27.1) three screws on the back, one on the front edge (you may need help to remove this, as it is large and heavy). Care must also be taken not to damage the actuator blade as it is removed from the safety switch (27.2) this is mounted on the back of the bow arm.

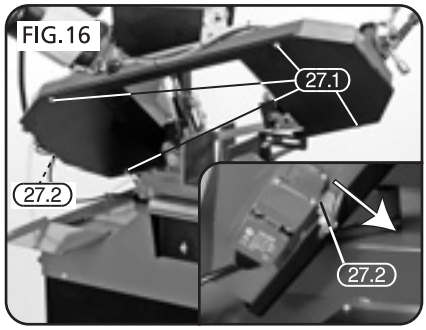


FIG.16

Remove the safety guards (23.1) with a 5mm hex. key. Release the blade tension by turning the tension wheel (1) anticlockwise enough to remove the blade from the flywheels. Then carefully slide through the guide wheels.

FIG.17

Fit the blade in the reverse order, making sure that the blade is running in the correct direction.
When re-tensioning the blade:

Turn tension wheel until contact is made with the conical washers model 38010.
or
contact is made with microswitch (1.1) model 38012.

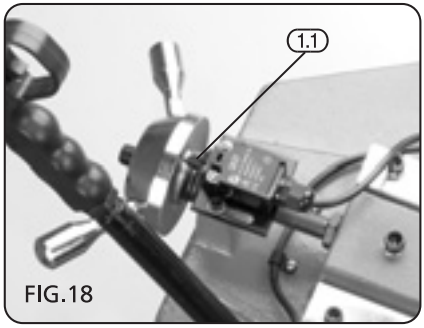


FIG.18

Refit cover carefully ensuring the actuator blade slides into switch and makes contact.

With the bow lowered connect back to the mains, and start bandsaw for a short ON/OFF burst. Check blade runs smoothly.

10. OPERATING THE BANDSAW

10.1 UNDERSTANDING CONTROL PANEL - FIG. 19

WARNING! Before operating the bandsaw, read the entire manual. Familiarise yourself with all the safety requirements, and the operating procedure in order that the machine is set up safely and correctly.

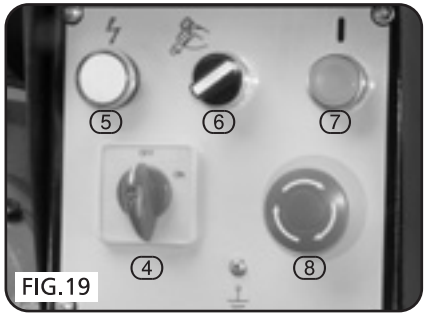


FIG.19

④ Mains power isolator switch.
⑤ Lamp indicates mains power.
⑥ Option switch: handgrip start or panel.
⑦ ON/OFF push button.
⑧ Emergency OFF button (twist to reset).

10.2 METHOD OF OPERATION

1. Ensure mains isolator switch OFF.
2. Adjust the stop bracket, bow arm angle, blade guides and rate of descent.
3. Ensure all clamps and locks are locked tight and that the bow arm is just above the workpiece (hold in position with hydraulic flow tap off).
4. Turn mains power on, the power lamp will light up.
5. Turn option switch to the desired starting method.

Turn selector to panel start:
6. Press start button ⑦.
7. Open hydraulic flow tap (bow arm will lower).
8. Adjust coolant flow rate.
9. As cut is completed the machine will stop.
10. Turn machine off and isolate power.

Turn selector to hand grip start:
6. Holding hand grip press micro switch on handle ②.
7. Open hydraulic flow tap, hold bow arm up and lower by hand.
8. Adjust coolant flow rate.
9. As cut is completed the machine will stop.
10. Turn machine off and isolate power.

WARNING! Never raise blade when machine is running.
WARNING! Wear gloves when handling sawn metal parts as the cutting process will have made them hot to touch and the cut edges will be sharp.
WARNING! Do not rotate the bow when the machine is running.

11.1 OPTIONAL ACCESSORIES

Stock No.38010

Title	Stock No.	Part No.	Teeth	Width	Application
Bandsaw Blade	58555	BB2105	14tpi	¾"	All suitable for cutting steel, aluminium, brass, copper and plastics.
Bandsaw Blade	58556	BB2105	18tpi	¾"	
Bandsaw Blade	58561	BB2105	24tpi	¾"	

Stock No.38012

Title	Stock No.	Part No.	Teeth	Width	Application
Bandsaw Blade	58562	BB2460	14tpi	1"	All suitable for cutting steel, aluminium, brass, copper and plastics.
Bandsaw Blade	58563	BB2460	18tpi	1"	
Bandsaw Blade	58564	BB2460	24tpi	1"	

12. TROUBLESHOOTING

12.1 TROUBLESHOOTING

WARNING: For your own safety, turn the switch off and remove the plug from the power supply socket.

PROBLEM	POSSIBLE CAUSE	REQUIRED ACTION
• Excessive blade breakage and/or teeth ripping from the blade.	• Workpiece is loose in the vice. • Incorrect feed. • Blade is too coarse. • Workpiece material is too coarse. • Incorrect blade tension. • Blade is in contact with workpiece before saw is started. • Blade is rubbing on the wheel flange. • Blade guides are misaligned. • Blade is too thick. • Bad weld on blade.	• Clamp the workpiece securely. • Check bow weight and hydraulic feed. • See optional accessories. • Use the saw with a smaller tpi blade. • Adjust blade tension so that it does not slip on the wheel. • Place blade in contact with the workpiece only after the saw has started. • If blade tracking needs adjustment, contact your local qualified service agent. • If blade guides need adjustment, contact your local qualified service agent. • Use correct thickness blade. • Replace blade.
• Premature blade dulling.	• Blade tpi is too high. • Inadequate feed pressure. • Hard spots or scale on the workpiece. • Blade installed backwards. • Insufficient blade tension. • Work hardened material especially stainless.	• Replace with a smaller tpi blade. • Increase feed pressure by decreasing bow weight. • Increase feed pressure by decreasing bow weight. • Remove blade, twist inside out and reinstall. • Increase blade tension. • Increase feed pressure by decreasing bow weight.
• Unusual wear on side or back of blade.	• Blade guides are worn. • Blade guides not properly adjusted. • Blade guide brackets are loose.	• Replace blade guides. • Adjust as described in manual. • Tighten blade guide brackets.

IMPORTANT: Please note all repairs/service should be carried out by a qualified person.

12. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REQUIRED ACTION
• Motor overheating.	• Blade tension too high. • Blade too coarse or too fine. • Gears need lubrication. • Blade is binding in the cut.	• Reduce blade tension. • Use a blade more suitable for the material being cut. • Top up gearbox. • Decrease feed.
• Bad, crooked or rough cuts.	• Feed pressure too great. • Blade guide bearings not properly adjusted. • Inadequate blade tension. • Blade is dull. • Blade guide too far away from workpiece. • Blade guide assembly is loose. • Blade is too coarse.	• Reduce feed pressure by increasing bow weight. • Contact your local qualified service agent. • Increase blade tension a little at a time. • Replace the blade. • Move guide closer to workpiece. • Tighten the guide assembly. • Use a finer blade.
• Blade is twisting.	• Blade is binding in the cut. • Blade tension is too high.	• Decrease feed pressure. • Decrease blade tension.

IMPORTANT: Please note all repairs/service should be carried out by a qualified person.

13. MAINTENANCE

13.1 MAINTENANCE

WARNING! Disconnect the bandsaw from the power source before servicing, changing accessories, or performing any other maintenance.

Check the gearbox oil level on a monthly basis. This should be done with the bow raised to its highest position. Observe the oil level in the sight glass on the side of the gearbox. If required, top up the oil by removing the filler bolt from the upper part of the gearbox just below the motor. Change the oil every 6 months. The drain plug is at the bottom of the gearbox. Drain the gearbox with the bow in its highest position.

Keep all surfaces clean and free from rust, slag, chips and coolant build-up.

Do not use compressed air to clean bandsaw. Compressed air may force chips into the guide bearings and other critical areas of the saw.

Use a small paint brush or parts cleaning brush to remove metal particles.

Wipe saw down with a clean dry cloth and oil all unpainted surfaces with light machine oil.

Keep blade guides clean and free from metal chips.

Check guide bearings frequently to make sure they are properly adjusted and running freely.

BLADE CLEANING BRUSH. It is important that the blade cleaning brush be properly adjusted and kept in good working order. The brush is mounted behind the fixed blade guide.

Blade life will be shortened severely if the brush is allowed to go out of adjustment, becomes worn or damaged. Replace the brush if it becomes worn or damaged.

Clean out the coolant tank at least twice a year.

WARNING! DO NOT attempt to adjust the blade brush with the machine running. Adjust only when the machine is disconnected from the power source.

14. EXPLANATION OF SYMBOLS

14.1 EXPLANATION OF SYMBOLS

Warning!
Do not wear loose clothing.

Warning!
Read the instruction manual

Warning!
Wear gloves.

Warning!
Keep hands away for blade.

Warning!
Wear ear defenders.

Warning!
Wear goggles.

WEEE
Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish

Warning!
Wear dust mask.

Warning! Disable the machine before attempting to maintain it.

15. DISPOSAL

15.1 DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

  In all circumstances:
  - Do not dispose of power tools with domestic waste.
  - Do not incinerate.
  - Do not abandon in the environment.
  - Do not dispose of WEEE* as unsorted municipal waste.

* Waste Electrical & Electronic Equipment.

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- **Sales Fax:** *(023) 8049 4209*
- **General Enquiries:** *(023) 8026 6355*

- **Service/Warranty Repair Agent**
  For aftersales servicing or warranty repairs, please contact the Draper Tools Helpline for details of an agent in your local area.

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