

# DRAPER®

## INSTRUCTIONS FOR 210mm Compound Mitre Saw

Stock No.40426 Part No.MS210A

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



CE

DRAPER®

### GENERAL INFORMATION

Read all these instructions before operating this product and save these instructions.

This manual has been compiled by Draper Tools and is an integrated part of the product with which it is enclosed and should be kept with it for future references.

This manual describes the purpose for which the product has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation or, before performing any kind of adjustment to the product and prior to any maintenance tasks. 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 accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.



# CONTENTS

Contents/Declaration ..... 1

Specification/Guarantee ..... 2

Power Supply..... 3

General Safety Instructions ..... 4

Additional Safety Instructions ..... 5

Getting to Know Your Mitre Saw ..... 6

Assembly ..... 7

Operation and Use..... 7-13

Glossary of Terms for Woodworking ..... 14

Maintenance ..... 15

Trouble Shooting ..... 16

Disposal ..... 17

Explanation of Symbols/Pictograms ..... 17

Optional Accessories ..... 18



# DECLARATION OF CONFORMITY

We:  
 Draper Tools Ltd.,  
 Hursley Road,  
 Chandler's Ford,  
 Eastleigh, Hampshire.  
 SO53 1YF.  
 England.

Declare under our sole responsibility that the product:

Stock No:- **40426.**  
 Part No:- **MS210A.**  
 Description:- **Compound Mitre Saw.**

To which this declaration relates is in conformity with the following directive(s)

98/37/EC, 89/336/EEC, 73/23/EEC

With reference to:

EN61029-1:2000, EN61029-2-9:2002, EN55014-1:2000+A1+A2, EN61000-3-2:2000+A2,  
 EN61000-3-3:1995+A1, EN55014-2:1997+A1.

J.N. Draper  
 Chairman  
 01/11/2006

The Draper Tools policy of continuous improvement determines the right to change specification without notice.

Stock No. ....	40426
Part No. ....	MS210A
Rated Voltage .....	230V~50Hz
Rated Input .....	1200W
Revolutions Per Minute (no load) .....	4,500min <sup>-1</sup>
Saw Blade:	
Diameter.....	210mm
Minimum Thickness .....	2.0mm
Maximum Thickness .....	2.5mm
Bore Diameter.....	30mm
Blade Supplied.....	210 x 2.4 x 30mm
Cutting Capacity:	
90° Bevel, 0° Mitre .....	60 x 110mm
90° Bevel, ±45° Mitre .....	60 x 75mm
45° Bevel, 0° Mitre .....	42 x 110mm
45° Bevel, ±45° Mitre .....	70 x 30mm
Dust Efficiency .....	18.4%
Sound Pressure Level.....	92.0dB(A)
Sound Power Level .....	105.0dB(A)
Vibration Level.....	<2.5m/s <sup>2</sup>
Weight .....	11kg

**ALWAYS WEAR AN APPROVED DUST MASK, SAFETY GOGGLES & EAR DEFENDERS**

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: (023) 8026 6355.

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. 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.



# POWER SUPPLY

## - Connecting to the Power Supply:

To eliminate the possibility of an electric shock your machine has been fitted with a BS approved, non rewirable moulded plug and cable which incorporates a fuse, the value of which is indicated on the pin face of the plug. If the plug is marked with the  symbol and the fuse needs replacing, an  approved BS1362 fuse must be used of the same amp rating. If the plug is not  marked, a fuse with the  symbol,  BS Kitemark, or both  and  BS Kitemark, of the same amp rating should be used.

- The fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is the same colour as that visible on the pin face of the plug (i.e. red). Fuse covers are available from your Draper Tools stockist.

If the fitted plug is not suitable, it should be cut off and destroyed. \*The end of the cable should now be suitably prepared and the correct type of plug fitted. See below.

### - \*WARNING:

A plug with bare flexible wires exposed is hazardous if engaged in a live power socket outlet.

### - WARNING: THIS APPLIANCE IS DOUBLE INSULATED. (230V ONLY)

- The mains lead is coloured Blue – Neutral, Brown – Live.
- As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black or blue.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red or brown.

### - EXTENSION LEAD CHART:

**Extension lead sizes shown assure a voltage drop of not more than 5% at rated load of tool.**

Ampere rating (on Name plate)	3	6	10	13
Extension cable length (Metres)	Wire Size mm <sup>2</sup>			
7.5	0.75	0.75	1.0	1.25
15	0.75	0.75	1.0	1.5
22.5	0.75	0.75	1.0	1.5
30	0.75	0.75	1.25	1.5
40	0.75	0.75	1.5	2.5

### IMPORTANT:

On products exceeding 2000W it is recommended that the power cable and/or extension cable are fully unwound before a connection is made to the power supply. However, ensure the residual cable does not pose a trip hazard.

**WARNING:** Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

SAVE THESE INSTRUCTIONS

**1. Keep work area clear**

- Cluttered areas and benches invite injuries.

**2. Consider work area environment**

- Do not expose tools to rain.
- Do not use tools in damp or wet locations.
- Keep work area well lit.
- Do not use tools in the presence of flammable liquids or gases.

**3. Guard against electric shock**

- Avoid body contact with earthed or grounded surfaces (e.g. pipes, radiators, ranges, refrigerators).

**4. Keep other persons away**

- Do not let persons, especially children, not involved in the work touch the tool or the extension cord and keep them away from the work area.

**5. Store idle tools**

- When not in use, tool should be stored in a dry locked-up place, out of reach of children.

**6. Do not force the tool**

- It will do the job better and safer at the rate for which it was intended.

**7. Use the right tool**

- Do not force tools to do the job of a heavy duty tool.
- Do not use tools for purposes not intended; for example do not use circular saws to cut tree limbs or logs.

**8. Dress properly**

- Do not wear loose clothing or jewellery, they can be caught in moving parts.
- Non-skid footwear is recommended when working outdoors.
- Wear protective hair covering to contain long hair.

**9. Use protective equipment**

- Use safety glasses.
- Use face or dust mask if working operations create dust.

**10. Connect dust extraction equipment**

- If the tool is provided for the connection of dust extraction and collecting equipment, ensure these are connected and properly used.

**11. Do not abuse the cord**

- Never yank the cord to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.

**12. Secure work**

- Where possible use clamps or a vice to hold the work. It is safer than using your hand.

**13. Do not overreach**

- Keep proper footing and balance at all times.

**14. Maintain tools with care**

- Keep cutting tools sharp and clean for better and safer performance.
- Follow instruction for lubricating and changing accessories.
- Inspect tool cords periodically and if damaged have them repaired by an authorised service facility.
- Inspect extension cords periodically and replace if damaged.
- Keep handles dry, clean and free from oil and grease.

**15. Disconnect tools**

- When not in use, before servicing and when changing accessories such as blades, bits and cutters, disconnect tools from the power supply.

**16. Remove adjusting keys and wrenches**

- Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

**17. Avoid unintentional starting**

- Ensure switch is in "off" position when plugging in.

**18. Use outdoor extension leads**

- When the tool is used outdoors, use only extension cords intended for outdoor use and so marked.

**19. Stay alert**

- Watch what you are doing, use common sense and do not operate the tool when you are tired.

**20. Check damaged parts**

- Before further use of tool, it 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 by an authorised service centre unless otherwise indicated in this instruction manual.
- Have defective switches replaced by an authorized service centre.
- Do not use the tool if the switch does not turn it on and off.

**21. Warning**

- The use of any accessory or attachment other than one recommended in this instruction manual may present a risk of personal injury.

**22. Have your tool repaired by a qualified person**

- This electric tool complies with the relevant safety rules. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

# ADDITIONAL SAFETY INSTRUCTIONS FOR MITRE SAWS

## SAFETY PRECAUTIONS

- Do not use saw blades which are damaged or deformed.
- Replace the table insert when worn.
- Use only saw blades recommended by the manufacturer which conform to EN 847-1;
- Do not use saw blades manufactured from high speed steel;
- Wear suitable personal protective equipment when necessary, which should include:
  - Hearing protection to reduce the risk of induced hearing loss;
  - Eye protection;
  - Respiratory protection to reduce the risk of inhalation of harmful dust;
  - Gloves for handling saw blades (saw blades shall be carried in a holder wherever practicable) and rough material;
- Connect the saw to a dust collecting device when sawing wood.

## Maintenance and servicing

- Report faults in the machine, including guards or saw blades, as soon as they are discovered.

## Safe operation

- Select the correct saw blade for the material to be cut;
- Do not use the saw to cut other materials than those recommended by the manufacturer;
- Lifting and transportation information: Ensure the mitre and bevel facilities are locked in the 0° and midway positions respectively. Remove the plug from the socket and lock the saw head in the down position before attempting to move the mitre saw. Only lift/move the saw by the transportation handles.

**WARNING:** Do not use any other part of the saw, in particular the guards for this purpose.

- Do not use the saw without the guards in position, in good working order and properly maintained;
- Ensure that the arm is securely fixed when bevelling;
- Keep the floor area around the machine level, well maintained and free of loose materials e.g. chips and cut-offs;
- Provide adequate general or localised lighting;
- Ensure the operator is adequately trained in the use, adjustment and operation of the machine;
- Use correctly sharpened saw blades. Observe the maximum speed marked on the saw blade;
- Ensure that any spacers and spindle rings used are suitable for the purpose as stated by the manufacturer;
- Refrain from removing any cut-offs or other parts of the workpiece from the cutting area whilst the machine is running and the saw head is not in the rest position;
- Ensure that the machine is always fixed to a bench, whenever possible.

## ADDITIONAL SAFETY INSTRUCTIONS FOR CIRCULAR SAW BLADES

### Safe Working Practice

#### Maximum speed

- The maximum speed marked on the tool shall not be exceeded. Where stated, the speed range shall be adhered to.

#### Circular saw blades

- Circular saw blades, the bodies of which are cracked, shall be scrapped (repairing is not permitted).
- Composite (tipped) circular saw blades, where the tip dimension is reduced to less than 1mm, shall be taken out of service.

#### One piece tools

- Tools with visible cracks shall not be used.

#### Fastening of tools and tool parts

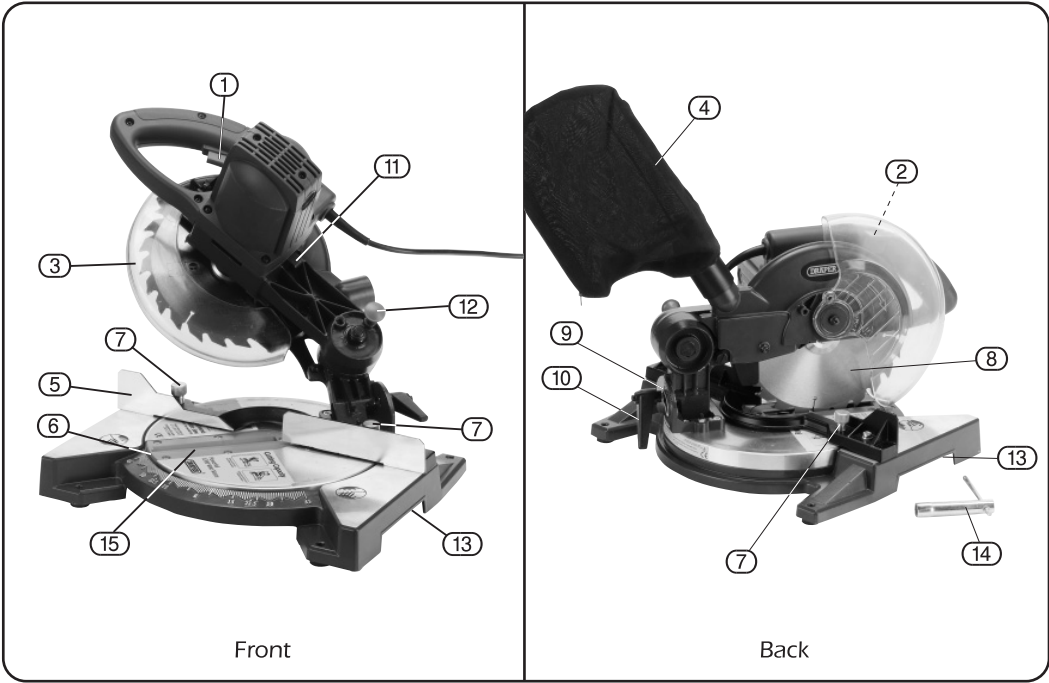
- Tools and tool bodies shall be clamped in such a way that they shall not loosen during operation.
- For tools with friction lock the positioning aid or setting gauge provided by the manufacturer shall be used to maintain radial and axial cutter projections.
- Care shall be taken when mounting tools to ensure that the clamping is by the hub of the tool and that the cutting edges are not in contact with each other or with the clamping elements.

Fastening screws and nuts shall be tightened using the appropriate spanners, etc., and to the torque value provided by the manufacturer.

- Extension of the spanner or tightening using hammer blows shall not be permitted.
- Clamping surfaces shall be cleaned to remove dirt, grease, oil and water.
- Clamping screws shall be tightened according to instructions provided by the manufacturer. Where instructions are not provided, clamping screws shall be tightened in sequence from the centre outwards.
- Use of loose rings or bushes to "make up" bore sizes on circular saw blades shall not be permitted.
- Use of fixed rings, e.g. pressed or held by adhesive fixing, in circular saw blades or flanged bushes for other tools shall be permitted if made to the manufacturers specification.
- Resin shall only be removed from light alloys with solvents that do not affect the mechanical characteristics of these materials.

#### Repair of tools

- Repair of tools is only allowed according to the tool manufacturers instructions. Particular attention is drawn to the following.
- The design of composite (tipped) tools shall not be changed in the process of repair.
- Composite tools shall be repaired by a competent person, i.e. a person of training and experience, who has knowledge of the design requirements and understands the levels of safety to be achieved.
- Repair shall therefore include, e.g. use of spare parts which are in accordance with the specification of the original parts provided by the manufacturer.
- Tolerances which ensure correct clamping shall be maintained.
- For one piece tools care shall be taken that regrinding of the cutting edge will not cause weakening of the hub and the connection of the cutting edge to the hub.



Front

Back

- ① On/Off Trigger Switch.
- ② Plunge Release Lever.
- ③ Lower Blade Guard.
- ④ Dust Extraction Bag.
- ⑤ Fence.
- ⑥ Mitre Pointer.
- ⑦ Mitre Locking Bolts.
- ⑧ Blade.
- ⑨ Bevel Pointer.
- ⑩ Bevel Locking Knob.
- ⑪ Spindle Lock Button.
- ⑫ Saw Head Locking Pin.
- ⑬ Transport Handle.
- ⑭ Box Spanner.
- ⑮ Table Insert.

- **UNPACKING:** After removing the packing material, make sure the product is in perfect condition and that there are no visible damaged parts. If in doubt, do not use the product and contact the dealer from whom it was purchased.

The packaging materials (plastic bags, polystyrene, etc.), must be disposed of in an appropriate refuse collection container. These materials must not be left within the reach of children as they are potential sources of danger.



- **BENCH MOUNTING:**

- **NOTE:**

Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

- **NOTE:**

Secure the mitre saw.

For safe working practice it is recommended that the saw be mounted on a secure, level surface. Using the holes in the base and suitable fixings (not supplied) bolt the saw down. Avoid mounting the saw where large workpieces will be difficult to maneuver or support.

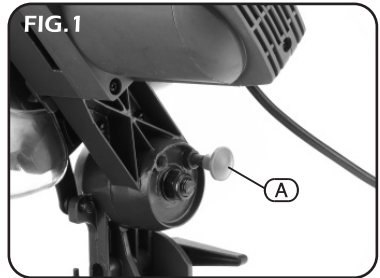
- **SAW HEAD LOCKING PIN (FIG.1):**

The saw head is locked in the down position for transport purposes and should be returned to this position when not in use. To release, slightly press down on the saw head before pulling out the locking pin (A).

**NOTE:**

The pin does not detach from the saw.

The saw head can now be raised up fully. Only carry the saw with the head locked in the down position.



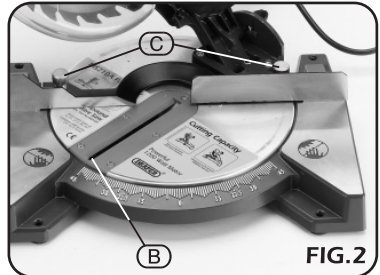
- **MITRE LOCKING ASSEMBLY (FIG.2):**

It is possible to set the mitre angle from 0° to 45° on both the left and right side with presets at 0°, 15°, 22.5°, 30° and 45°. Using the saw head, rotate the table to the desired angle as indicated on the scale by pointer (B).

The presets are denoted using a spring loaded ball bearing which locates in and out of the preset angles as the table rotates. With the desired angle set, tighten both mitre locking bolts (C) to secure.

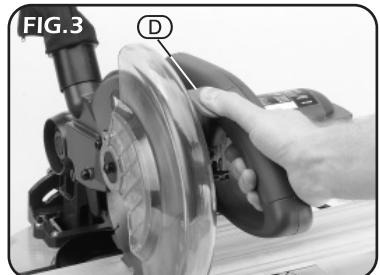
**NOTE:**

Never make any cuts until the locking bolts are fully tightened.



- **PLUNGE RELEASE LEVER (FIG.3):**

As a safety feature the saw head locks in the upper position each time. To plunge the saw head operate lever (D). As the saw head lowers the lower blade guard self-retracts.





- **BEVEL ADJUSTMENT (FIG.4):**

It is possible to set the bevel angle from 0° to 45°. Loosen locking knob (F) and adjust the bevel angle as indicated on scale (G). Tighten locking knob (F) to secure.

- **DUST EXTRACTION:**

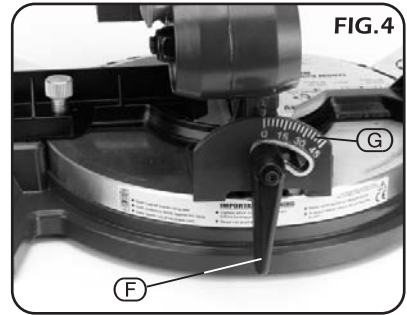
Inhalation of dust particles can be detrimental to health. The dust outlet must be connected with a dust extraction machine.

- **NOTE:** Due to the outlet diameter, a size adaptation may be necessary.

All wood dust (including dust from composites like chipboards and fibre boards etc) is hazardous to health; it can affect the nose, the respiratory system and the skin. For example MDF (medium density fibreboard) which contains formaldehyde is a known carcinogen. In addition to the above measures a correctly fitted dust mask, suitable for the activity and in accordance to the relevant standard, must be worn. For work activities involving exposure to fine wood dust a mask rated to at least FFP2 should be used.

- **NOTE:**

A dust mask must be worn for any cutting operations.



- **CHECKING THE TABLE TO BLADE ALIGNMENT (FIGS.5&6):**

- **NOTE:**

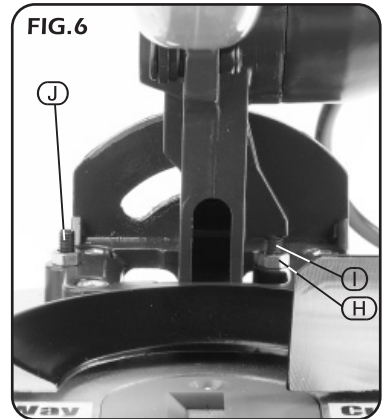
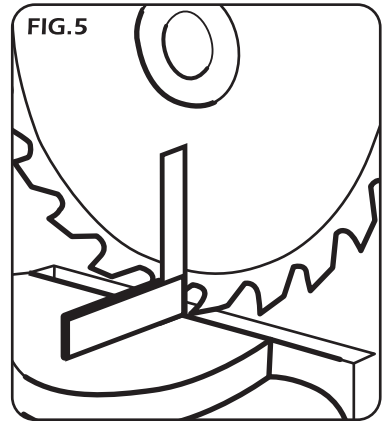
Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

Lower and lock the saw head. Set the mitre and bevel angles to zero and lock. Place a small engineers square flat against the table and the blade making sure that the square contacts the flat side of the blade and not the teeth.

- **NOTE:**

The saw head may need to be unlocked and raised up slightly to accommodate the square.

The edge of the square should be parallel to the side of the blade. If any adjustment is required loosen the bevel locking knob. Adjust the 90° stop by loosening lock nut (H) and turning grub screw (I). Move the screw clockwise to angle the blade away from the square and anti-clockwise to angle toward the square. If required move the pointer to correct. It is possible to check the 45° bevel end stop using an engineers protractor in place of the square. If necessary adjust the 45° stop by turning grub screw (J).



- **CHECK THE FENCE TO BLADE ALIGNMENT (FIG.7):**

- **NOTE:**

Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

Lower and lock the saw head. Set the mitre and bevel angles to zero and lock. Place a small engineers square flat against the fence and the blade making sure that the square contacts the flat side of the blade and not the teeth. The edge of the square should be parallel to the blade. If any adjustment is required loosen the hex. socket bolts at the rear of the fence. Position the fence against the square and retighten.



**NOTE:**

Remove the plug from the socket before carrying out adjustments, servicing and maintenance.

**BLADE REPLACEMENT (FIGS.8-12):**

Do not use abrasive wheels. Only use saw blades recommended.

With the saw head in the raised position, remove bolt (K) to enable the lower blade guard assembly (L) to swing forward giving access to the blade flange bolt.

- NOTE:** To the rear of plate (M) is the tab which the guard's automatic retraction mechanism acts upon. When swinging the guard mechanism forward or back the tab will foul on the blade flange bolt. Guide the plate out and around the bolt taking care not to damage the blade guard assembly. With the blade guard assembly swung forward plunge and lock the saw head in the down position (Fig.9).

Press the spindle lock button (N) and with the box spanner loosen and remove the blade securing bolt (clockwise to loosen as the bolt has a left-hand thread). Remove the clamping flange, taking note of the correct orientation for re-assembly.

- NOTE:** It will be necessary to temporarily raise the saw head to accommodate the blade change over. Ensure the specification of the replacement blade conforms with the machine (i.e. outer diameter, width, RPM and type, e.g. woodcutting etc). Before fitting the new blade wipe a drop of oil on the inner and outer flanges where the arbor locates. Fit the blade, flanges and bolt.

Lower the saw head and lock, before securing the blade bolt to 12.5Nm.

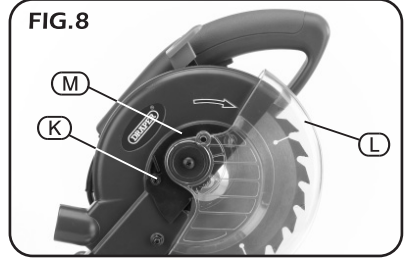
- NOTE:** Install the blade with the direction of rotation arrow matching the direction of rotation arrow on the blade guard (Fig.11). The teeth face downward at the front of the saw.

To re-fit the lower blade guard assembly, raise the saw head to the upper position.

Push the lower blade guard up in the direction indicated (Fig.12). Activate the plunge release lever (without plunging the saw head) before rotating the guard.

- CAUTION:** Hold the guard in this position as releasing it will cause it to rapidly spring back. Guide the plate (O) back into position, passing it around the blade flange bolt.

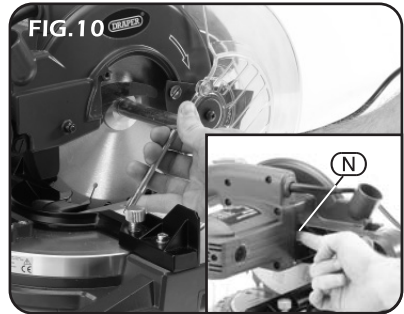
**FIG.8**



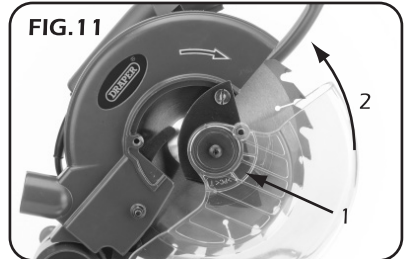
**FIG.9**



**FIG.10**



**FIG.11**



**FIG.12**



- **BASIC SAW OPERATIONS**

- **WARNING**

FOR YOUR OWN SAFETY, READ AND UNDERSTAND ALL SAFETY INSTRUCTIONS AND OPERATING PROCEDURES THROUGHOUT THE MANUAL BEFORE USING THIS MACHINE.

- **BODY AND HAND POSITION (FIG.13):**

Proper positioning of your body and hands when operating the mitre saw will make cutting easier and safer. Never place hands near cutting area. Place hand at least 4" from path of blade. Hold workpiece firmly to the fence to prevent movement towards the blade. Keep hands in position until trigger has been released and the blade has completely stopped. Before making a cut, make a "dry run" with the power off so you can see the path of the blade.

- **WARNING**

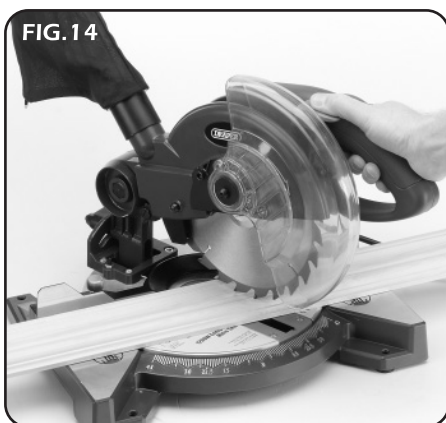
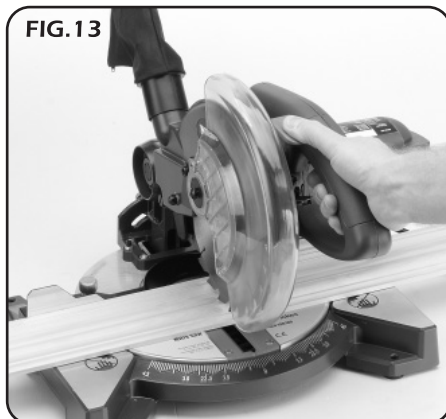
DO NOT TRY TO CUT SHORT PIECES, YOU CANNOT PROPERLY SUPPORT OR HOLD DOWN THE WORKPIECE BY HAND AND KEEP YOUR HAND THE REQUIRED DISTANCE FROM THE BLADE.

- **MITRE CUT (FIG.14):**

When a mitre cut is required, move the saw to the desired angle. Do not stand in front of the saw table. Move with the handle to the mitre angle to make the cut.

- **NOTE:**

Remember to loosen the table locking bolts to enable adjustment.



- **BEVEL CUT (FIG.15):**

When a bevel cut is required, tilt the blade to the desired bevel angle. Stand to the left side of the handle to make the cut.



- **COMPOUND CUT (FIG.16):**

When a compound cut is required, select the correct bevel and mitre position. Move with the handle to the mitre angle to make the cut.



- **CUTTING CURVED OR WARPED MATERIAL (FIGS.17&18):**

Before cutting a workpiece, check to make sure it is flat. If it is curved or warped, the workpiece must be positioned and cut as illustrated. Do not position workpiece incorrectly or try to cut the workpiece without the support of the fence. This will cause pinching of the workpiece on the blade. The workpiece could suddenly jump or move and your hand could hit the blade.

FIG.17

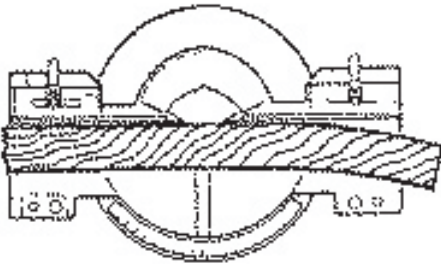
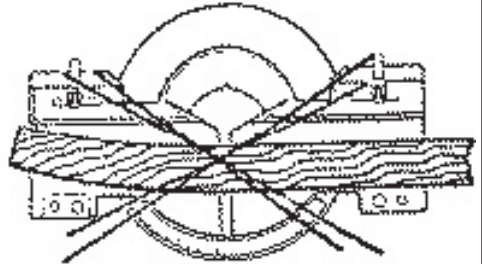


FIG.18



- **WORKPIECE SUPPORT (FIG.19):**

Long pieces need extra supports. The supports should be placed along the workpiece so the workpiece does not sag and the hand holding the workpiece is positioned 4" or more from the blade path. The support should let the workpiece lay flat on the base and worktable during the cutting operation.

**FIG.19**



## ARBOR/SPINDLE

The shaft on which a cutting tool is mounted.

## BEVEL CUT

An angle cutting operation made through the face of the workpiece.

## COMPOUND CUT

A simultaneous bevel and mitre cutting operation.

## CROSS CUT

A cutting operation made across the width of the workpiece.

## FREEHAND

Performing a cut without the use of fence (guide), hold down or use a proper device to prevent the workpiece from twisting during the cutting operation. Twisting the workpiece can cause it to be thrown.

## GUM

A sticky, sap based residue from wood products.

## HEEL

Misalignment of the blade.

## KERF

The amount of material removed by the blade in a through cut or the slot produced by the blade in a non-through or partial cut.

## MITRE CUT

An angle cutting operation made across the width of the workpiece.

## RESIN

A stick, sap based substance that has dried and hardened.

## REVOLUTIONS PER MINUTE (RPM)

The number of turns completed by a spinning object in one minute.

## SAWBLADE PATH

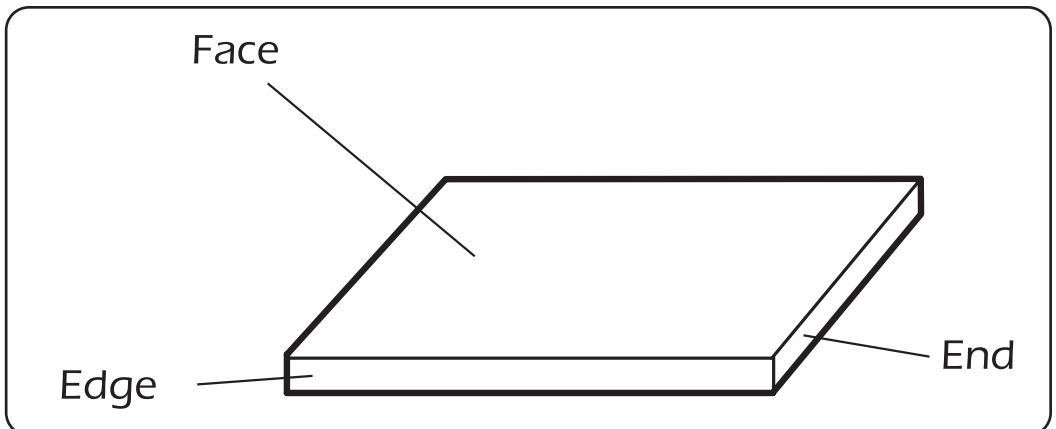
The area of the workpiece or table top directly in line with either the travel of the blade or the part of the workpiece which will be, or has been, cut by the blade.

## SET

The distance that the tip of the sawblade teeth are bent (or set) outward from the face of the blade.

## WORKPIECE

The item on which the cutting operation is being performed. The surfaces of a workpiece are commonly referred to as faces, ends and edges.







# MAINTENANCE

Regular inspection and cleaning reduces the necessity for maintenance operations and will keep your tools in good working condition.

If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.

Always unplug the power cable before any maintenance check on this saw.

## **DANGER**

Never put lubricants on the blade whilst it is spinning.

## **WARNING**

TO AVOID INJURY FROM UNEXPECTED STARTING OR ELECTRICAL SHOCK, UNPLUG THE POWER CABLE BEFORE WORKING ON THE SAW.

## **WARNING**

FOR YOUR SAFETY, THIS SAW IS DOUBLE INSULATED. TO AVOID ELECTRICAL SHOCK, FIRE OR INJURY, USE ONLY PARTS IDENTICAL TO THOSE IDENTIFIED IN THE PARTS LIST, REASSEMBLE EXACTLY AS ORIGINAL ASSEMBLY TO AVOID ELECTRICAL HAZARDS.

## **BLADE GUARD**

Do not use the saw without the lower guard. The lower blade guard is attached to the saw for protection. Should the lower guard become damaged, do not use the saw until damaged guard has been replaced. Develop a regular check to make sure the lower guard is working properly. Clean the lower guard of any dust or build up with a damp cloth, with the power supply disconnected.

## **CAUTION**

Do not use solvents on the guard. They could make the plastic 'cloudy' and brittle.

## **WARNING**

WHEN CLEANING LOWER GUARD, UNPLUG THE SAW FROM THE OUTLET TO AVOID UNEXPECTED START-UP OR ELECTRICAL SHOCK.

## **SAWDUST**

Periodically, sawdust will accumulate under the worktable and base. This could cause difficulty in the movement of the worktable when setting up a mitre cut. Frequently vacuum up the sawdust.

## **WARNING**

TO AVOID INJURY FROM UNSAFE ACCESSORIES, USE ONLY ACCESSORIES SHOWN ON THE RECOMMENDED ACCESSORIES LIST IN THIS MANUAL.

## **PROHIBITED ACCESSORIES**

The use of any cutting tool except saw blades which meet the requirement under recommended accessories is prohibited. Do not use accessories such as shaper cutters or dado sets. Ferrous and non-ferrous metal cutting and the use of abrasive wheels are prohibited.

## **LUBRICATION**

All the motor bearings in this tool are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions, therefore, no further lubrication is required.

**WARNING: FOR YOUR OWN SAFETY ALWAYS TURN THE MAIN SWITCH ON THE MACHINE "OFF" AND REMOVE THE PLUG FROM THE POWER SUPPLY BEFORE CARRYING OUT ANY MAINTENANCE OR TROUBLESHOOTING.**

Trouble	Probable Cause	Remedy
Motor does not start.	<ol style="list-style-type: none"> <li>1. Fuse.</li> <li>2. Brushes worn.</li> <li>3. Other.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace/reset the time delay fuse or circuit breaker.</li> <li>2. Return to an authorised service agent.</li> <li>3. Return to an authorised service agent.</li> </ol>
Angle of cut not accurate.	<ol style="list-style-type: none"> <li>1. Misalignment.</li> </ol>	<ol style="list-style-type: none"> <li>1. See "Operation &amp; Use".</li> </ol>
Sawhead wobbles.	<ol style="list-style-type: none"> <li>1. Loose pivot points.</li> </ol>	<ol style="list-style-type: none"> <li>1. Return to an authorised service agent.</li> </ol>
Cannot move mitre adjustment	<ol style="list-style-type: none"> <li>1. Sawdust under table.</li> </ol>	<ol style="list-style-type: none"> <li>1. Vacuum out dust.</li> </ol>
Sawhead will not rise fully.	<ol style="list-style-type: none"> <li>1. Pivot misadjustment.</li> <li>2. Part failure.</li> <li>3. Pivot spring not replaced properly after service.</li> </ol>	<ol style="list-style-type: none"> <li>1. Return to an authorised service agent.</li> <li>2. Return to an authorised service agent.</li> <li>3. Return to an authorised service agent.</li> </ol>
Blade binds, jams, burns wood.	<ol style="list-style-type: none"> <li>1. Improper operation.</li> <li>2. Blunt blade.</li> <li>3. Incorrect blade.</li> <li>4. Warped blade.</li> </ol>	<ol style="list-style-type: none"> <li>1. See basic saw operation.</li> <li>2. Replace blade.</li> <li>3. Replace with correct blade suitable for this machine and the intended application.</li> <li>4. Replace blade.</li> </ol>
Tool vibrates or shakes.	<ol style="list-style-type: none"> <li>1. Saw blade damaged.</li> <li>2. Saw blade loose.</li> <li>3. Other.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace blade</li> <li>2. Tighten locking bolt.</li> <li>3. Return to an authorised service agent.</li> </ol>

## DISPOSAL OF POWER TOOLS

- 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.

## EXPLANATION OF SYMBOLS/PICTOGRAMS



Safety goggles.



Ear defenders.



Dust Mask.



Do not dispose of WEEE\* as unsorted municipal waste.



Class II construction  
(Double insulated).

\* Waste Electrical & Electronic Equipment.



## OPTIONAL ACCESSORIES

See your local Draper Stockist.

- **DRAPER TOOLS LIMITED,**  
Hursley Road, Chandler's Ford,  
Eastleigh, Hampshire. SO53 1YF. U.K.
  
- **Helpline:** (023) 8049 4344
- **Sales Desk:** (023) 8049 4333
- **General Enquiries:** (023) 8026 6355
- **Fax:** (023) 8026 0784
- **Internet:** [www.draper.co.uk](http://www.draper.co.uk)
- **E-mail:** [sales@drapertools.com](mailto:sales@drapertools.com)
  
- **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.

YOUR DRAPER STOCKIST

OAJH081206

©Published by Draper Tools Limited.

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise without prior permission in writing from Draper Tools Ltd.