

DRAPER®

INSTRUCTIONS FOR 80mm Tile Cutting Saw

Stock No.45369

Part No.TCS80

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



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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 tile cutting saw 6

Assembly 7-8

Operation and use..... 9-11

Trouble shooting 12

Explanation of symbols/pictograms/Maintenance/Disposal 13



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:- **45369.**
 Part No:- **TCS80.**
 Description:- **Tile Cutting Saw.**

To which this declaration relates is in conformity with the following directive(s) 2004/108/EC, 2006/95/EC and 2006/42/EC.



J.N. Draper
 Chairman

08/04/2008



SPECIFICATION

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

Stock no.	45369
Part no.....	TCS80
Rated voltage.....	230V
Rated frequency.....	50Hz
Rated input.....	350W
Revolutions per minute	4500min ⁻¹
Blade diameter.....	80mm
Blade bore	22.2mm
Max depth of cut	15mm
..... 90°	10mm
..... 45°	
Table size	285 x 265mm
Sound pressure level	101.0dB(A)
Sound power level	114.0dB(A)
Vibration level.....	5.5m/s ²
Electrical safety class.....	Class I
IP number.....	IP44
Weight (machine only)	2.9kg

ALWAYS WEAR APPROVED SAFETY GOGGLES AND GLOVES.



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 a fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. The 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 agents.

Note: If the tool is found not to be within the Terms of Warranty, repair 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.

Note: This tool is intended for domestic use only.

- 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 MUST BE EARTHED.

The mains lead is coloured Green and Yellow - Earth, Blue – Neutral and 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 green and yellow must be connected to the terminal in your plug marked with the letter 'E' or by the earth symbol  or coloured green or green and yellow.

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 ²			
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
45	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.

For safe operation of this appliance it should be supplied via a residual current device (RCD) with a tripping current of not more than 30mA.

General Power Tool Safety Warnings

⚠ WARNING: Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools

with your finger on the switch or energising power tools that have the switch on invites accidents.

- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
 - e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
 - f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
 - g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.
- ### 4) Power tool use and care
- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
 - b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
 - c) **Disconnect the plug from the power source and/or battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
 - d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
 - e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
 - f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
 - g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- ### 5) Service
- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

TILE CUTTING SAWS

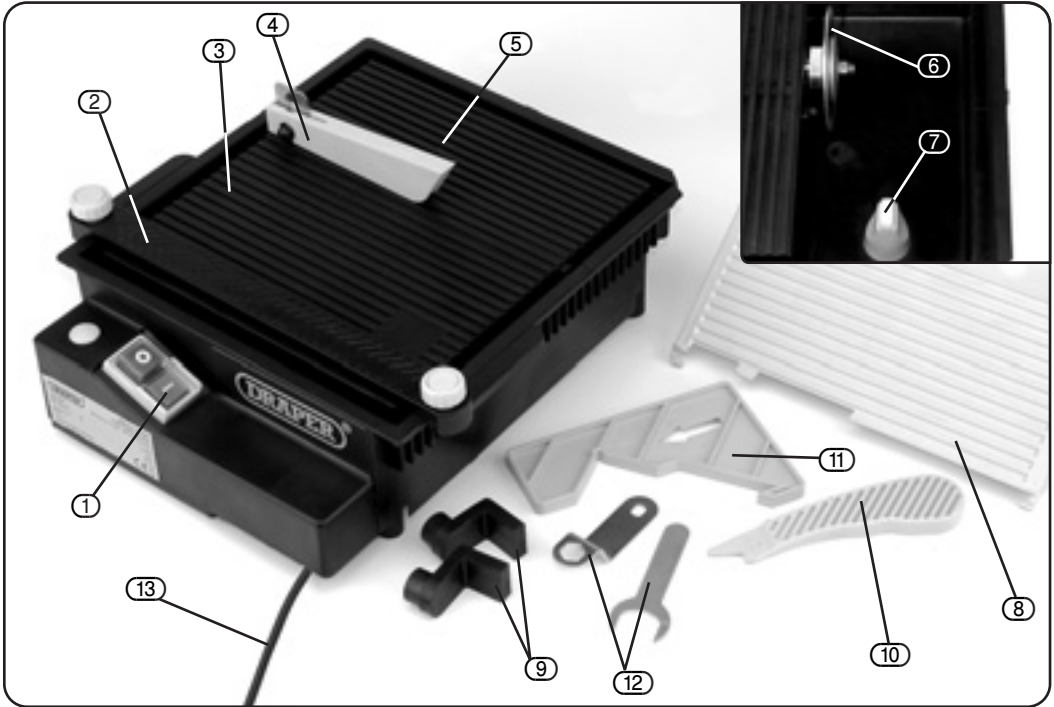
- Check that speed marked on the blade is equal to or greater than the rated speed of the tile cutting saw;
- Ensure that the wheel dimensions are compatible with the grinder;
- Abrasive wheels shall be stored and handled with care in accordance with manufacturer's instructions;
- Inspect the cutting wheel before use, do not use chipped, cracked or otherwise defective products;
- Ensure that mounted wheels are fitted in accordance with the manufacturer's instructions;
- Ensure that the abrasive product is correctly mounted and tightened before use and run the tool at no-load for 30 s in a safe position, stop immediately if there is considerable vibration or if other defects are detected. If this condition occurs, check the machine to determine the cause;
- If a guard is supplied with the tool never use the tool without such a guard.
- Do not use separate reducing bushings or adapters to adapt large hole abrasive wheels;
- Always use eye and ear protection;
- Personal protective equipment such as dust mask, gloves and apron should be worn;
- The wheel continues to rotate after the tool is switched off.
- **Warning:** Prior to mounting an abrasive wheel ensure the expiry date has not exceeded rendering it potentially hazardous.

SAFETY RECOMMENDATIONS FOR THE CORRECT USE OF SUPERABRASIVES.

- a. **General.** Superabrasives are breakable and shall therefore be handled with utmost care! The use of damaged or improperly mounted or used superabrasives is dangerous and can cause serious injuries.
- b. **Delivery, handling and storage.** Superabrasives shall be handled and transported with care. Superabrasives shall be stored in such a manner that they are not subjected to mechanical damages and harmful environmental influences.
- c. **Selection of superabrasives.** Information on the label or the superabrasive as well as restrictions of use, safety indications or any other instruction shall be followed. In case of doubt

concerning the selection of superabrasives, the user shall request information from the manufacturer or supplier.

- d. **Visual inspection and ring test.** Superabrasives shall be subjected to a visual inspection as received before mounting. In a addition, a ring test shall be executed for superabrasives with vitrified core and abrasive section and $D > 80\text{mm}$. Damaged superabrasives shall not be used.
- e. **Mounting, before starting and information for use.** The mounting of superabrasive shall be carried out according to the instructions provided by both, the superabrasive and the machine manufacturer. Special attention shall be drawn to the fact that mounting of superabrasives is to be carried out by a qualified trained person. Each time after mounting, the superabrasive shall be test run for a reasonable time - the specified maximum operating speed of the superabrasive shall not be exceeded.
- f. **Further information.** The following instructions shall be observed, supplementary to the information of the grinding machine:
 - Observance of the user's information of grinding machine manufacturer.
 - Before starting, safety devices shall be mounted to the machine.
 - No operations without protection by safety devices.
 - Use of personal protective equipment according to the type of machine and type of application, e.g. eye and face protection, ear protection, respiratory protection devices, protective footwear, protective gloves and other protective clothing.
 - Only operations for which the superabrasive is suitable shall be carried out (taking into account restrictions of use, safety indications or other information).



- | | |
|----------------------------|---------------------------------------|
| ① No volt release switch. | ⑧ Bevel table. |
| ② Fence. | ⑨ Surface support feet. |
| ③ Table. | ⑩ Push stick. |
| ④ Blade guard. | ⑪ Mitre guide. |
| ⑤ Reservoir cover (table). | ⑫ Blade spanners. |
| ⑥ Diamond rim blade. | ⑬ BS approved moulded plug and cable. |
| ⑦ Reservoir plug. | |

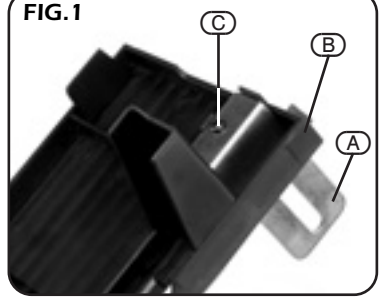
- **UNPACKING:** After removing the packing material, make sure the product is in perfect condition and that there are no visible damaged parts. If in doubt, do not use the product and contact the dealer from whom it was purchased.

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.

BLADE GUARD (Figs.1-4.):

- Insert the riving knife (A) through the reservoir cover/table (B), and locate the tab in the recess of the table.
- Secure with self tapping screw (C).

FIG.1



- Remove bolt, washer and nut assembly from the blade guard (D).
- Locate the blade guard over the riving knife and align the guard bolt hole and riving knife slot.

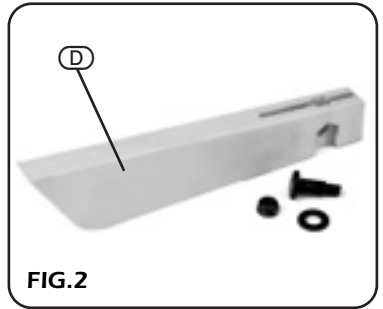
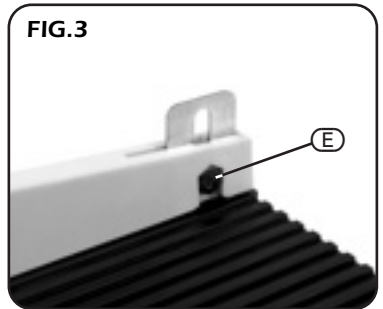


FIG.2

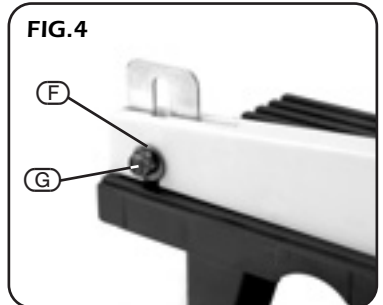
- Feed bolt (E) through blade guard and riving knife ensuring the bolt head locates in the profiled recess (Fig.3.)
- Secure with washer (F) and lock nut (G).

FIG.3



- **NOTE:** Do not fully tighten the lock nut as this will inhibit the movement and operation of the blade guard.

FIG.4



- **NOTE:** Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

FITTING/CHANGING THE BLADE (Figs.5-7.):

- Loosen and remove nut (H) and front flange (I).
- Fit the blade ensuring it is correctly seated on rear flange (J).
- **NOTE:** Take care to check the direction of rotation of the blade matches that of the machine as indicated on the front flange.
- Refit the front flange and nut.

FIG.5

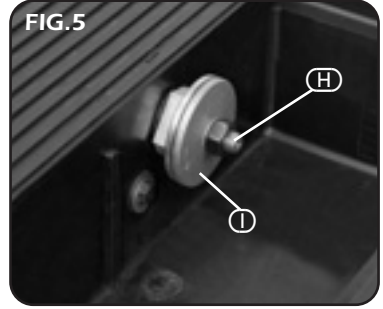


FIG.6

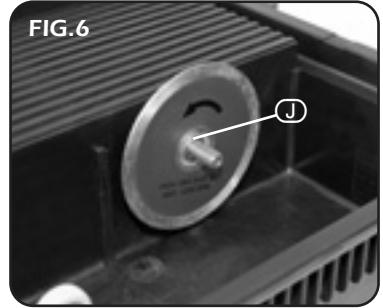


FIG.7



- Using the two spanners supplied, support the rear flange and tighten securing nut.
- **NOTE:** When fitting/refitting a blade, ensure that the spindle, flanges and faces of the blade are clean, dry and free from corrosion (clean or replace if necessary).

- **NOTE:** Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

FILLING THE RESERVOIR

- Fill the reservoir with clean cold water.
- **NOTE:** The reservoir plug acts as an overflow should it be over filled.

NO VOLT ON/OFF SWITCH (Fig.8.):

- In the event of a power supply disruption, the machine will require manually restarting once power has been returned.

To switch the machine on, press the green button marked 'I'.

To switch the machine off, press the red button marked 'O'.

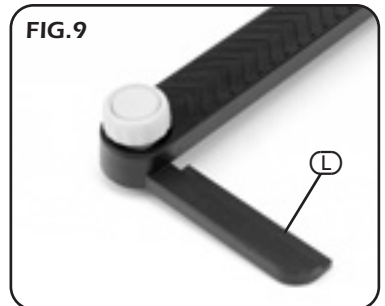
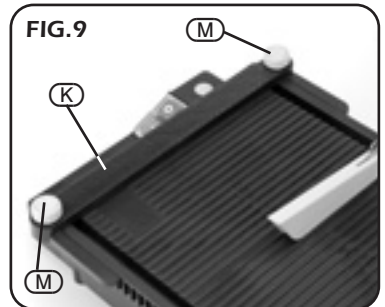
- **NOTE:** The diamond cutting blade will continue to rotate for a period of time after the machine has been switched off. Beware of moving parts.



STRAIGHT CUTS (Fig.9.):

- For straight cuts, parallel to the edge of the tile, use the fence (K) supplied.
- To fit, slide the fence onto the table ensuring tabs (L) sit on the underside of the table.
- Using either a metal rule or the object tile, set the fence to the desired distance from blade.
- Lock in position front and rear using knobs (M).

- **NOTE:** For straight cuts that are not parallel to the edge of the tile, it will be necessary to mark the tile with the required cutting line to act as a visual guide.



BEVEL OR MITRE CUTTING (Figs.10-12.):

For bevel cutting, the bevel table must be fitted.

- Lift blade guard. Locate the bevel table tabs (N) down over reservoir cover tabs (O), ensuring they lock underneath.
- The bevel table surface is now set at approx. 45° for bevel cutting.

For mitre cuts, use mitre guide (P) and fence.

- Position the guide against the fence.
- Loosen fence locking knobs and move the fence to the required position.
- Lock the fence.

- **NOTE:** Never put your fingers into the cutting line of the blade. Use the push stick supplied. Keep the tile against the surface of the table at all times and continue pushing the tile at all times until it is clear of the guard. Feed the tile into the blade at a speed that does not cause the blade to slow down. This will ensure a longer blade life and reduce the risk of the motor over heating. Check the water level of the reservoir frequently as the blade must never run dry. Refill or replace with clean cold water as required.

FIG.10

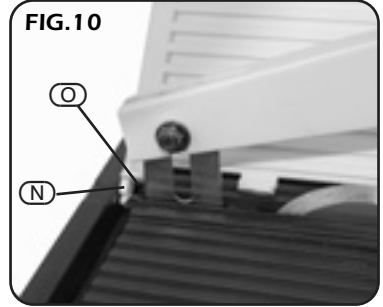


FIG.11

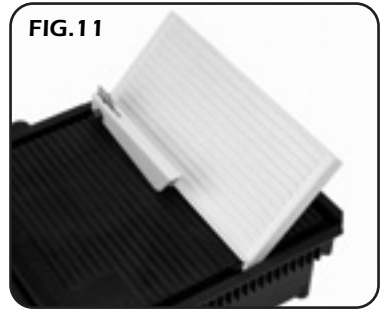
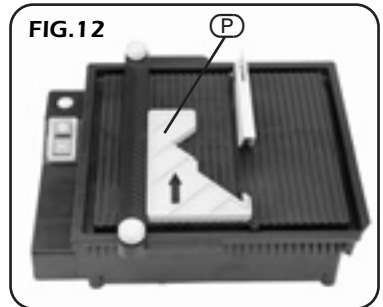
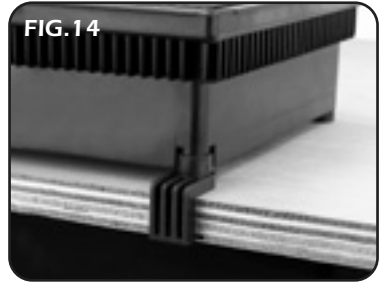
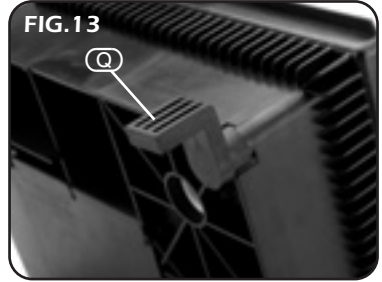


FIG.12



SECURING THE TILE SAW (Figs.13 - 14.):

- This tile cutting saw is supplied with surface support feet. These are used to prevent the saw sliding backwards on the work surface.
- To fit, press the support feet (Q) over the front feet of the saw.
- Butt the feet up against the work surface.



TROUBLE	PROBABLE CAUSE	REMEDY
Motor does not start	<ol style="list-style-type: none"> 1. Fuse. 2. Brushes worn. 3. Other. 	<ol style="list-style-type: none"> 1. 5 amp time delay fuse or circuit breaker. 2. Replace brushes. 3. Authorised service agent.
Blade does not cut.	<ol style="list-style-type: none"> 1. R.C.D. 2. No water. 3. Blade direction. 4. Blade worn out (consumable item). 	<ol style="list-style-type: none"> 1. Check the R.C.D. is set. 2. Check the water level, top up if required. 3. Check the blade is fitted the right way round. 4. Replace blade. (consumable item).

EXPLANATION OF SYMBOLS/PICTOGRAMS



Read operator's instructions.



Hand protection shall be worn.



Eye and ear protection shall be worn.



Caution, risk of cutting.

MAINTENANCE AND PARTS REPLACEMENT

Regular inspection and cleaning reduces the necessity for maintenance operations and will keep your tool in good working condition. The motor must be correctly ventilated during tool operation. For this reason avoid blocking the air inlets.

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

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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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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