



THE TOOL COMPANY

185mm METAL CUTTING SAW

■ STOCK No.71278
74603

■ PART No.CSM185C

• INSTRUCTIONS •

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



GENERAL INFORMATION

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.



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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:- 71278.

Part No:- CSM185C.

Description:- Metal Cutting Saw 230 Volt.

To which this declaration relates is in conformity with the following directive(s) 98/37/EC,
73/23/EEC & 89/336/EEC

With reference to: EN50144-2-5, EN55014-1+A1, EN55014-2, EN61000-3-2 & EN61000-3-3+A1

Issue Date: 28/07/2003

Stock No:- 74603.


Part No:- CSM185C.

Description:- Metal Cutting Saw 110 Volt.

To which this declaration relates is in conformity with the following directive(s) 98/37/EC,
73/23/EEC & 89/336/EEC

With reference to: EN60745-1:2003+A1, EN60745-2-5:2003, EN55014-1:2000+A1, EN61000-3-2:2000,
EN61000-3-3:1995+A1 & EN55014-2:1997+A1

Issue Date: 21/12/2004


JOHN DRAPER
Managing Director

SPECIFICATION

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

Stock No.	71278	74603
Part No.	CSM185C	CSM185C
Voltage	230V	110V
Motor	1200W	1200W
Blade diameter	185mm	185mm
Bore size	20mm	20mm
Cutting capacities:		
Max. cutting depth	57mm	57mm
Max. cutting thickness	7mm	7mm
Min. cutting thickness	3mm	3mm
Speed (no load)	3500rpm	3500rpm
Sound pressure level	100.8dB(A)	100.8dB(A)
Sound power level	111.8dB(A)	111.8dB(A)
Vibration level	<2.5m/s ²	<2.5m/s ²
Weight	6kg	6kg

THIS SAW IS INTENDED FOR CUTTING LOW HARDENED MILD STEEL, CARBON STEEL, STAINLESS STEEL* AND ALUMINIUM* ONLY

ALWAYS WEAR APPROVED SAFETY GOGGLES AND EAR PROTECTION

*Special blade required - SEE OPTIONAL ACCESSORIES

GUARANTEE (Hand held professional electric power tools)

Draper hand held professional electric power tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 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.

Should the machine develop any fault where warranty applies, arrangements will be made for the tool to be returned free-of-charge to the Service Centre at Draper Tools Limited.

Please contact: **DRAPER 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 the product will be repaired and tested as soon as possible free of charge, normally within five working days. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted by any personnel other than the Service Centre at Draper Tools Limited or other authorised agent.

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 produce a dated receipt or invoice to verify your proof of purchase within the 12 month period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

POWER SUPPLY

CONNECTING YOUR MACHINE TO THE POWER SUPPLY: (230V ONLY)

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. (230V ONLY):

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.

WARNING: THIS APPLIANCE MUST BE EARTHED. (110V ONLY):

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

GENERAL SAFETY INSTRUCTIONS FOR POWER TOOLS

WARNING:

Please read the following instructions carefully, failure to do so could lead to serious personal injury. When using electric tools, basic safety precautions, including the following, should always be followed to reduce the risk of fire, electric shock and personal injury. Read all these instructions before operating this product and save these instructions.

IMPORTANT:

Draper Tools Limited recommends that this machine should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us in writing and we will advise you.

1. KNOW YOUR POWER TOOL

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

2. KEEP WORK AREA CLEAN

Cluttered areas and benches invite accidents. Floors must not be slippery due to oil or sawdust.

3. AVOID DANGEROUS ENVIRONMENTS

Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit. Provide adequate space surrounding the work area. Do not use in environments with a potentially explosive atmosphere.

4. KEEP CHILDREN AWAY

All visitors should be kept a safe distance from work area.

5. STORED TOOLS

When not being used, all tools should be stored in a dry, locked cupboard and out of the reach of children.

6. WEAR PROPER CLOTHING

Do not wear loose clothing, neckties or jewellery (rings, wristwatches) to catch in moving parts. NONSLIP footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.

7. USE SAFETY GOGGLES (Head Protection)

Wear CE approved safety goggles at all times. Normal spectacles only have impact resistant lenses, they are NOT safety glasses. Also, use face or dust mask if application is dusty and ear protectors (plugs or muffs) during extended periods of operation.

8. NOISE LEVELS

Some types of machines may have high noise levels when working. In such cases ear protection must be worn.

9. VIBRATION LEVELS

Hand held power tools produce different vibration levels. You should always refer to the specifications and relevant Health and Safety guide.

10. DUST EXTRACTION

If your tool is fitted with a dust extraction fitting, always ensure that it is connected and being used with a dust extractor. Vacuum cleaners can be used if suitable for the material being extracted.

11. PROTECT YOURSELF FROM ELECTRIC SHOCK

When working with power tools, avoid contact with any earthed items (e.g. pipes, radiators, hobs and refrigerators, etc.). If you are using a power tool in extreme conditions (e.g. high humidity or generating metal dust), always use an RCD (residual current device) at the power socket.

12. STAY ALERT

Always watch what you are doing and use common sense. Do not operate a power tool when you are tired or under the influence of alcohol or drugs.

13. WHEN WORKING OUT OF DOORS

Only use extension leads designed for that purpose.

14. ACCESS TO MAINS SOCKET

If a stationary machine is fitted with a moulded plug and cable, the machine should not be positioned so that access to the mains socket is restricted.

15. DISCONNECT POWER TO THE TOOL

When not in use, before servicing and when changing accessories such as cutters, etc.

16. AVOID ACCIDENTAL STARTING

Make sure the switch is in the OFF position before plugging the machine into the power supply.

17. NEVER LEAVE MACHINE RUNNING UNATTENDED

Turn power off. Do not leave machine until it comes to a complete stop.

18. DO NOT ABUSE THE CORD

Never carry the tool by the power cable or pull it from the socket. Keep the power cable away from heat, oil and sharp edges. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid hazard.

19. NEVER STAND ON TOOL

Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted. Do not store materials above or near the tool, so that it is necessary to stand on the tool to reach them.

20. CHECK DAMAGED PARTS

Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, free running 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 repaired properly or replaced by an authorized service centre unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorized service facility. Do not use the tool if the switch does not turn it on and off.

21. KEEP GUARDS IN PLACE

And in working order.

22. MAINTAIN TOOLS WITH CARE

Keep tools sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories. All extension cables must be checked at regular intervals and replaced if damaged. Always keep the hand grips on the tool clean, dry and free of oil and grease.

23. USE RECOMMENDED ACCESSORIES

Consult the owners manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

24. REMOVE ADJUSTING KEYS AND WRENCHES

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

25. SECURE WORK

Use clamps or a vice to hold work. This frees both hands to operate the tool.

26. DO NOT OVERREACH

Keep proper footing and balance at all times.

27. USE RIGHT TOOL

Do not force the tool or attachment to do a job for which it was not designed.

28. DO NOT FORCE TOOL

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

29. DIRECTION OF FEED

Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

30. WHEN DRILLING OR SCREWING INTO WALLS

Always make sure there is no danger of hitting any hidden power cables, water or gas pipes in the wall.

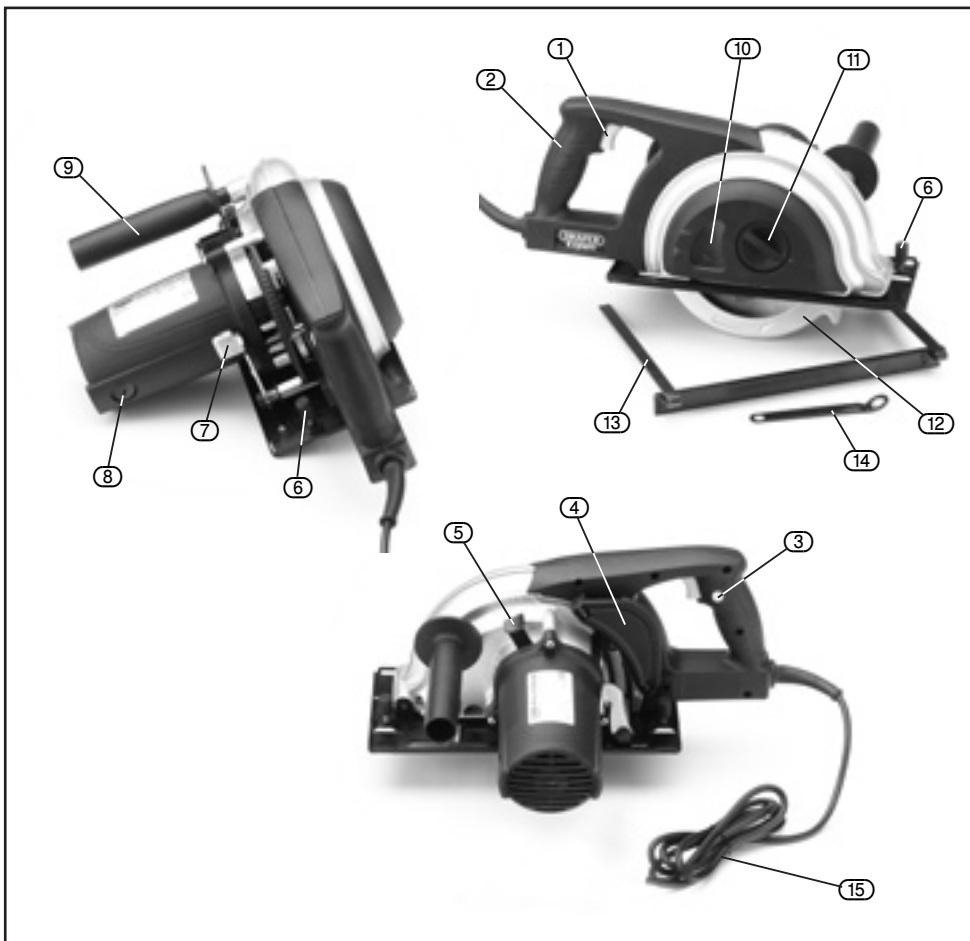
31. HAVE YOUR TOOL REPAIRED BY A QUALIFIED PERSON

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

IMPORTANT NOTE:

Residual Risk. Although the safety instructions and operating manuals for our tools contain extensive instructions on safe working with power tools, every power tool involves a certain residual risk which can not be completely excluded by safety mechanisms. Power tools must therefore always be operated with caution!

GETTING TO KNOW YOUR METAL CUTTING SAW



- | | | |
|---------------------------------|--------------------------|-----------------------|
| ① On/off trigger switch | ⑥ Parallel guide locks | ⑫ Sliding blade guard |
| ② Soft grip handle (adjustable) | ⑦ Height adjustment lock | ⑬ Parallel guide |
| ③ Safety switch | ⑧ Brush covers | ⑭ Spanner |
| ④ Handle adjustment lock | ⑨ Auxiliary side handle | ⑮ Power cable |
| ⑤ Spindle lock | ⑩ Viewing window | |
| | ⑪ Swarf collection box | |

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 saw 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.

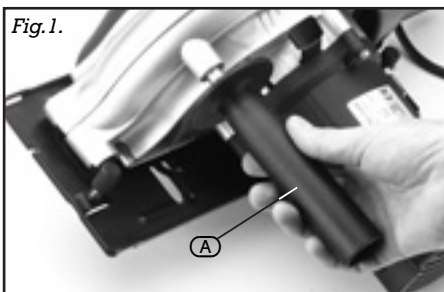
ASSEMBLY

NOTE:

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

AUXILIARY SIDE HANDLE (Fig.1.):

Screw the auxiliary side handle (A) into the threaded hole on the front metal housing.



BLADE FITTING AND REMOVAL

(Figs.2-4):

Remove the swarf collection box (B) by turning handle (C) anticlockwise.

NOTE:

When removing/refitting, notice the top of the swarf collection box slides under the plastic housing.

To take out the inner blade cover remove the three securing screws (D).

Raise the saw up to full height, see page 8, to enable the inner blade guard to be dropped down and then out.

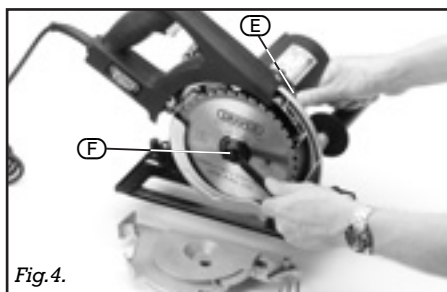
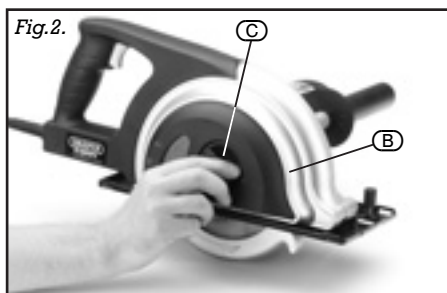
Press down spindle lock (E) and loosen spindle bolt (F) with spanner supplied.

NOTE:

The spindle bolt has a right hand thread: anti-clockwise to remove.

Take note of the direction and order the bolts, washer and flanges are removed, to ensure correct assembly.

Fit the new blade, ensuring the tip of the teeth are facing upwards at the front of the saw, and observe the direction of rotation arrows on the blade/machine match.



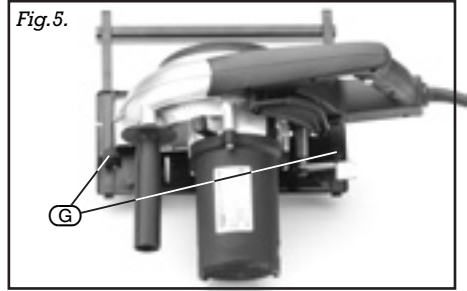
ASSEMBLY

PARALLEL GUIDE (Fig.5.):

Depending on the job in hand, it may be necessary to fit the parallel guide.

Slide the guide legs through the pressings in the base and secure in place with locking knobs (G).

Fig.5.



OPERATION AND USE

NOTE:

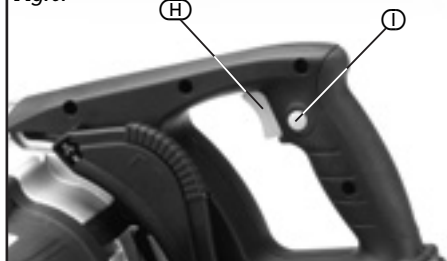
Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

STARTING AND STOPPING THE SAW

(Fig.6.):

The on/off switch (H) is fitted with a safety button (I) so that it is not possible to start the saw by accident. To start the saw press the safety button (I) then depress button (H) and hold. The saw will stop when switch (H) is released.

Fig.6.



CUTTING DEPTH ADJUSTMENT (Fig.7.):

For a clean cut, it is recommended to adjust the cutting depth according to the material thickness.

In order to adjust the cutting depth, loosen the locking lever (J), move the saw upwards or downwards accordingly and resecure with locking lever (J).

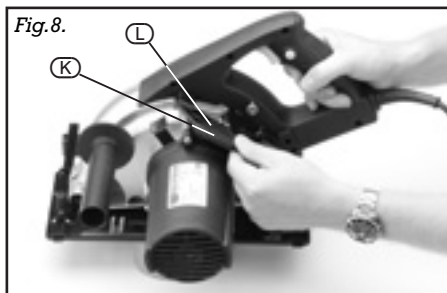
Fig.7.



HANDLE HEIGHT ADJUSTMENT (Fig.8.):

To create a more comfortable working position, it is possible to angle the handle. Slide up locking catch (K), fold down release catch (L). Set the handle into one of the six positions, as applicable. Locking place by folding catch (L) back up into place. Slide the locking catch (K) up to ensure the catch is fully folded up.

Fig.8.



PARALLEL CUTTING GUIDE (Fig.9.):

For parallel cuts, use cutting guide (M). Cutting width is adjusted by loosening knobs (N), slide the guide to the required position and tighten knobs (N).

Fig.9.



OPERATION AND USE

This saw is intended for cutting low hardened steel, carbon steel, stainless steel* and aluminium*.

* Special blade required.

IMPROPER USE

The functions and use of this tool are those exclusively indicated in this manual. Any other use of the tool is considered as misuse.



MAINTENANCE AND PARTS REPLACEMENT

Regular inspection and cleaning reduces the necessity for maintenance operations and will keep your tool in good working condition. The tool bearings and gears are life-long lubricated, however it is advised to check the condition of the grease in the head every 100 hours, if necessary replace the grease. The motor must be correctly ventilated during tool operation. For this reason avoid blocking the air inlets with hands. After use disconnect the tool from the power supply and clean carefully, use compressed air through ventilation slots.

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 the standard regulations of the country in which it is being used, and that the disposal operation is carried out by specialized personnel following authorized guidelines.

In all circumstances:

- Do not abandon in the environment;
- Do not dispose of together with solid urban waste products;
- Contact the special recycling centres.

WARNING:

Disconnect the plug from the power supply socket before replacing any parts.

BRUSHES:

The brushes must be replaced after approx. 150-200 working hours, or if they are less than 5-6mm in length.

WARNING:

For correct tool operation always change the brushes in pairs, not separately. The use of original Draper spare parts is recommended. After having fitted new brushes allow the motor to run without load for at least five minutes for the brushes to bed.

IMPORTANT:

This operation should only be performed by an authorized person.

REPLACING THE POWER SUPPLY CABLE:

Check that the power supply cable is in good condition, if not have it replaced by an authorized person.



OPTIONAL ACCESSORIES

185mm 36T Metal Saw Blade

Stock No.73519

Part No.CSB185M

180mm 40T Stainless Steel Saw Blade

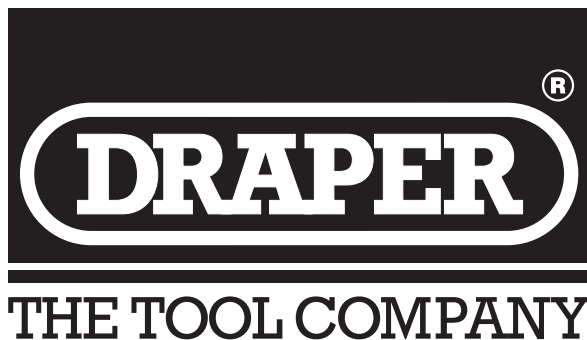
Stock No.73520

Part No.CSB180SS

185mm 60T Aluminium Saw Blade

Stock No.73521

Part No.CSB185A



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YOUR DRAPER STOCKIST

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