



Instruktionsbok
Cirkelsåg

Manual
Circular saw

BCS - 1400
Code no. 19694 - 0407

ENGLISH

Original instructions

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1. INTRODUCTION



Read this operators guide carefully, before using the machine. Ensure that you know how the machine works, and how it should be operated.

Maintain the machine in accordance with the instructions, and make certain that the machine functions correctly. Keep this operator's guide and other enclosed documentation with the machine.

2. TECHNICAL SPECIFICATIONS

| | | |
|------------------------------|-------|----------|
| Voltage | V | 230 |
| Frequency | Hz | 50 |
| Power input | W | 1300 |
| No load speed | r/min | 5000 |
| Saw blade dimensions..... | mm | 185 × 16 |
| Number of teeth | | 24 |
| Max sawing depth @ 90°..... | mm | 65 |
| Max sawing depth @ 45° | mm | 44 |
| Weight | kg | 4.4 |

3. PRODUCT INFORMATION

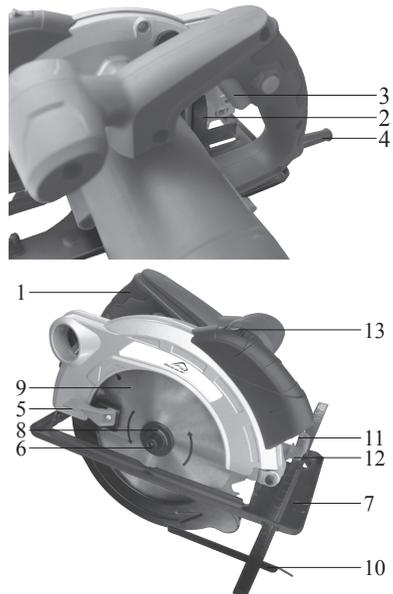


Fig. 1

1. Handgrip
2. Protractor
3. On/off switch
4. Power cord
5. Saw blade safety guard
6. Hexagon screw
7. Soleplate
8. Retaining ring
9. Saw blade
10. Rip fence
11. Rip fence clamping knob
12. Sawing angle clamping knob
- Shaft locking knob
13. Laser switch

4. UNPACKING

The circular handsaw is shipped with:

- 1 Rip fence
- 1 TCT Saw blade Ø 185 mm
- 1 Allen key
- 1 Set of carbon brushes
- 2 Batteries
- 1 Dust extraction adapter

Check first whether or not the product has been damaged by transport and/or whether all the parts are present.



5. SAFETY INSTRUCTIONS

The following pictograms are used in these instructions for use:



Danger of bodily injury or material damage.



Indicates electrical shock hazard.



In accordance with essential applicable safety standards of European directives



Class II equipment – double insulated
– the plug does not have to be earthed



Read the instructions



Keep bystanders at a distance



Immediately unplug the plug from the mains electricity in the case that the cord gets damaged and during maintenance



Wear eye and ear protectors



Caution! Laser beam! Never look into the light beam and never aim the laser at a person when it is switched on.



Electrical or electronic devices and machines, which are damaged and/or are to be discarded, must be delivered to the recycling stations provided by local regulations.

5.1 Electrical safety

When using electric machines always observe the safety regulations applicable in your country to reduce the risk of fire, electric shock and personal injury. Read the following safety instructions and also the enclosed safety instructions. Keep these instructions in a safe place!



Always check that the power supply corresponds to the voltage on the rating plate.



Class II equipment – double insulated – the plug does not have to be earthed.

- Replacing cables or plugs
If the mains cable becomes damaged, it must be replaced with a special mains cable available from the manufacturer or the manufacturer's customer service. Dispose of old cables or plugs immediately after replacing them with new ones. It is dangerous to connect the plug of a loose cable to a socket.
- Using extension cables
Only use an approved extension cable suitable for the power input of the machine. The minimum conductor size is 1.5 mm². When using a cable reel always unwind the reel completely.

5.2 Danger

- Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.
- Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.
- Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade teeth should be visible below the workpiece.
- Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
- Hold power tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.

- When ripping always use a rip fence or straight edge guide. This improves the accuracy of cut and reduces the chance of blade binding.
- Always use blades with correct size and shape (diamond versus round) of arbour holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- Never use damaged or incorrect blade washers or bolt. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

5.3 Causes and operator prevention of kickback

- Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator.
- When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator.
- If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
- When blade is binding, or when interrupting a cut for any reason, release the trigger and

hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.

- When restarting a saw in the workpiece, centre the saw blade in the kerf and check that saw teeth are not engaged into the material. If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
- Support large panels to minimise the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- Blade depth and bevel adjusting locking levers must be tight and secure before making cut. If blade adjustment shifts while cutting, it may cause binding and kickback.
- Use extra caution when making a "plunge cut" into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.

5.4 Safety instructions lower guard

- Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- Check the operation of the lower guard spring. If the guard and the spring are not

operating properly, they must be serviced before use. Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.

- Lower guard should be retracted manually only for special cuts such as "plunge cuts" and "compound cuts." Raise lower guard by retracting handle and as soon as blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.
- Always observe that the lower guard is covering the blade before placing saw down on bench or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.

5.5 Before using the circular saw, check the following points

- Does the voltage of the motor correspond with the mains voltage. (appliances for a mains voltage of 230 V)
- Are the mains lead and the mains plug in a good condition: solid, without any loose ends or damage.
- Is the saw blade missing any teeth or showing any cracks, if so, it must be replaced immediately.
- Make sure the blade is secure.
- Use this circular saw only to saw wood or wood-like products.
- Do not use circular saw blades which are deformed or damaged.
- Do not use HSS blades.
- Only use blades meeting the required dimensions (as well as) data and descriptions.
- Never apply any blades of which the thickness is greater than that of the riving knife.
- Do not stop the blade of a circular saw by pressing the blade from the side.
- Check that the blade guard can freely move and fully closes.
- Never lock-up the guard in the open position.

- Never put sideward pressure on the blade. This may cause the blade to break.
- Be careful when cutting wood with knots, nails or cracks in it and/or dirt on it, as these can cause the blade to get stuck.
- Never leave the circular saw unattended.

5.6 Safety tips for the laser beamer

- Never look into the light beam of the laser.
- Never point the light beam of the laser at humans or animals.
- Do not point the light beam of the laser at strongly reflecting material. Hazard from reflected light.
- Only have repairs made to the laser beamer by qualified personnel / professional repair specialists.
- Do not insert any hard objects into the laser optics.
- Clean the laser optics with a soft, dry brush.

5.7 Using the machine

- Use clamps or a vice to hold the work.
- Never remove wood chips and saw dust that is close to the saw blade with your hands. If there are small pieces of wood left between the fixed and the movable parts, the circular saw will have to be stopped. The plug needs to be removed from the socket, before any left piece can be removed.
- Check that the blade is suitable for the spindle speed of the circular saw. Do not attempt to cut before the circular saw has reached full speed. Make sure the circular saw runs without load (i.e. is not in contact with the work) when you switch it on. The circular saw must have reached its full speed first.
- Never cut wood that is thicker than the depth of the saw blade.
- When cutting in wooden walls or floors, check if there is no wiring or piping where you intend to cut.
- Switch off the tool and wait until the blade has stopped completely before moving the saw away from the work or putting it down.

Hearing protection should be worn when using the circular saw.

5.8 Switch off the machine immediately when you discover

- A defective mains plug or mains lead.
- A defective switch.
- Overheating of the circular saw.
- Smoke or odour caused by scorched insulation.

6. ASSEMBLY AND ADJUSTING INSTRUCTIONS



Before adjusting the saw, make sure the plug is removed from the socket.

6.1 Setting the sawing angle (bevel) (Fig. 1)

- Loosen both knobs (11).
- Rotate the soleplate to the correct position ($0^\circ - 45^\circ$), and tighten the knobs. The sawing angle (bevel) can be read on the protractor.

6.2 Fitting the rip fence (Fig. 1)

- Loosen knob (12).
- Insert the rip fence into the slots provided (10).
- Set the correct cut width and tighten the knob (12).

6.3 Setting the cut depth (Fig. 1)

- Loosen knob.
- Move the soleplate (7) downwards.
- The cut depth of the saw blade can be read off on the side of the safety guard.
- Tighten the clamping knob once the correct depth is set.

6.4 Exchanging or cleaning the saw blade (Fig. 1)

- Use the shaft locking knob to prevent the shaft from rotating.
- Next loosen the hexagon screw (6) in the centre of the saw blade, using the Allen key provided.

- Turn the safety guard to the rear, and hold it there with the aid of the knob (11).
- Withdraw the retaining ring and the saw blade, and clean the saw blade, or replace it with a new one.
- Again place the saw blade back on the shaft.
- Allow the safety guard to return over the saw blade by releasing the knob (11).
- Press the shaft locking knob back in, refit the retaining ring (8) and tighten the hexagon screw firmly once more.

7. OPERATION



Use of hearing protection is recommended while operating the circular saw.

7.1 Switching on/off (Fig. 2)

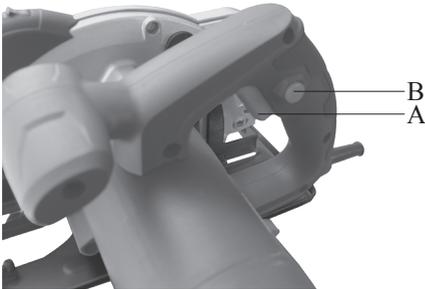


Fig. 2

- Depress knob (B) with your right-hand thumb and keep it depressed.
- Depress knob (A) to start the saw.
- Release knob (A) to stop the saw.

7.2 Operation

- Hold the work using clamps or a vice to have both hands free to operate the saw.
- Switch on the saw and place the bottom plate on the work.
- Slowly move the saw towards the previously drawn cutting line and slowly press the tool forward.
- Firmly press the bottom plate on the work, otherwise the circular saw may start to vibrate, causing the blade to break more easily.



Let the saw do the job. Do not put undue pressure on the circular saw.

7.3 Laser beamer in use

The leading beam of the laser beamer makes sawing in straight lines much easier:

- Along a drawn line, or
- By aligning it to a fixed point marked on the workpiece.

The range of the laser beam, depending on the environmental light, is about 65 cm.

7.4 Troubleshooting

Below we have listed a few probable causes and solutions to which you can refer if your circular saw does not function properly.

| | | |
|---|--|--|
| <ul style="list-style-type: none"> • The temperature of the electric motor exceeds 70°C. | <ul style="list-style-type: none"> • The motor has been overloaded by working it too hard. • The motor is defective. | <ul style="list-style-type: none"> • Cut more slowly and allow the motor to cool down. • Contact your local dealer to have the tool inspected and/or repaired. |
| <ul style="list-style-type: none"> • The tool does not work when switched on. | <ul style="list-style-type: none"> • Damaged cord and/or plug. • Defective switch. | <ul style="list-style-type: none"> • Check cord and/or plug. • Contact your local dealer to have the switch inspected and/or repaired. |

| | | |
|---|--|---|
| <ul style="list-style-type: none"> • When cutting it is very difficult to move the work forward in a straight line and the cut is not clean. | <ul style="list-style-type: none"> • The blade is bent or blunt. | <ul style="list-style-type: none"> • Replace the blade. |
| <ul style="list-style-type: none"> • The circular saw makes a lot of noise and/or does not run smoothly. | <ul style="list-style-type: none"> • The carbon brushes are worn. | <ul style="list-style-type: none"> • Replace the carbon brushes (Fig. 2) |

8. MAINTENANCE



Make sure that the machine is not live when carrying out maintenance work on the motor.

This equipment was manufactured for long-term operations with minimal maintenance. Continuous and satisfactory operations depend on a correct care and regular cleaning of your equipment.

8.1 Cleaning

- Regularly remove sawdust.
- Operate the saw with an attached vacuum cleaner.
- If the dirt does not come off use a soft cloth moistened with soapy water. Never use solvents such as petrol, alcohol, ammonia water, etc. These solvents may damage the plastic parts.

8.2 Lubrication

The machine does not require any additional lubrication.

8.3 Malfunctions

If any malfunctions should occur, for instance through wear and tear of a component, then please contact the service centre indicated on your guarantee card. This manual contains a detailed overview of those components that can be ordered.

8.4 Environment

This machine is delivered in robust packaging to prevent transport damages. This packaging largely consists of recyclable materials.

Do use all available possibilities for recycling the packaging. When disposing of the machine, do not throw it into your trash container!

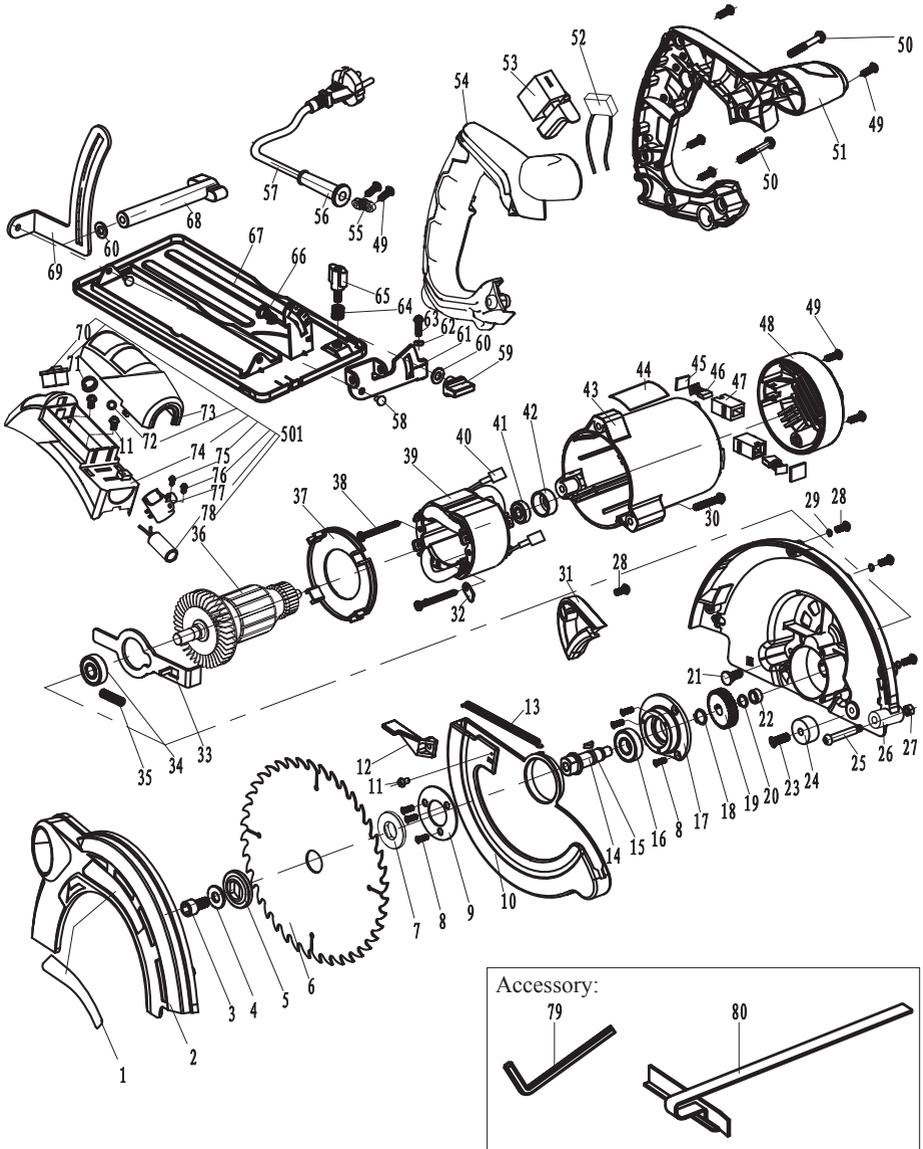


Electrical or electronic devices and machines, which are damaged and/or to be discarded, must be delivered to the recycling stations provided by local regulations. We would like to ask you to support us with your active contribution to protect the environment, by delivering equipment that is to be discarded to your local recycling station.

8.5 Guarantee

Warranty conditions and product liability apply according to national legislation.

BCS-1400 DIAGRAM





BCS-1400 PART LIST

| No. | Description | Specification | Qty | No. | Description | Specification | Qty |
|-----|-----------------------------|-----------------|-----|-----|--------------------------|----------------|-----|
| 1 | Name plate | | 1 | 41 | Bearing | 607-2RS | 1 |
| 2 | Head cover body | | 1 | 42 | bearing jacket | | 1 |
| 3 | Hex screw | M8 × 16 | 1 | 43 | Housing | | 1 |
| 4 | Big wahser | 8 | 1 | 44 | Rating lable | | 1 |
| 5 | Press plate | | 1 | 45 | Carbon brush cover | | 2 |
| 6 | Saw blade | | 1 | 46 | Carton brush | | 2 |
| 7 | Clamping flage | | 1 | 47 | Carbon brush holder | | 2 |
| 8 | Screw | M4 × 10 | 6 | 48 | Rear cover | | 1 |
| 9 | Flage for lower guard | | 1 | 49 | Screw | ST4.2 × 16-F | 8 |
| 10 | Lower guard | | 1 | 50 | Screw | M5 × 50 | 2 |
| 11 | Screw | M4 × 8 | 1 | 51 | Left handle | | 1 |
| 12 | Spanner for lower guard | | 1 | 52 | Capacitance | | 1 |
| 13 | Spring | Ø3.8 × 0.7 × 98 | 1 | 53 | Switch | | 1 |
| 14 | Output shaft | | 1 | 54 | Right handle | | 1 |
| 15 | Semi-circle Key | 3 × 10 | 1 | 55 | Cable clamp | | 1 |
| 16 | Bearing | 6001-2RS | 1 | 56 | Cable jacket | | 1 |
| 17 | Front cover | | 1 | 57 | Cable | | 1 |
| 18 | Shaft circlip | 12 | 1 | 58 | Screw | 5 × 7 | 2 |
| 19 | Big gear | | 1 | 59 | Locking knob | | 1 |
| 20 | Shaft circlip | 10 | 1 | 60 | Flat washer | Ø6 × Ø14 × 1.5 | 2 |
| 21 | Bolt | M6 × 18 | 1 | 61 | Angle frame | | 1 |
| 22 | Oil bearing | 8C7 × 14 × 8 | 1 | 62 | Nut | M 4 | 1 |
| 23 | Screw | M6 × 18 | 1 | 63 | Screw | M4 × 10 | 1 |
| 24 | Positioning circlip | Ø22 × 12 | 1 | 64 | spring | Ø8.2 × 0.8 × 3 | 1 |
| 25 | Pin screw | M5 × 40 | 1 | 65 | Pressing lock | | 1 |
| 26 | Head cover | | 1 | 66 | Bolt | M6 × 14 | 1 |
| 27 | Nut | M5 | 1 | 67 | Plate | | 1 |
| 28 | Screw | M4 × 12 | 4 | 68 | Depth adjusting lock rod | | 1 |
| 29 | spring circlip | 4 | 3 | 69 | Depth adjusting frame | | 1 |
| 30 | Screw | M5 × 35 | 1 | 70 | Laser switch | | 1 |
| 31 | Cover | | 1 | 71 | Battery insert | | 2 |
| 32 | Windshield | | 1 | 72 | Battery spring | | 2 |
| 33 | Self-locking pin | | 1 | 73 | Lahser housing cap | | 1 |
| 34 | Bearing | 6000-2RS | 1 | 74 | Lahser housing | | 1 |
| 35 | Spring | Ø5.9 × 0.7 × 10 | 1 | 75 | Screw | ST2.9 × 10-F | 1 |
| 36 | Rotor | | 1 | 76 | Screw | ST2.9 × 6-F | 1 |
| 37 | Wind loop | | 1 | 77 | Lahser base | | 1 |
| 38 | Screw | ST4.2 × 60 | 2 | 78 | lasher head | | 1 |
| 39 | Stator | | 1 | 79 | Hex key | 6 | 1 |
| 40 | Square shape connect pieces | 8.5 | 2 | 80 | Guide | | 1 |
| | | | | 501 | Lasher acce. | | 1 |



Circular saw

BCS-1400

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