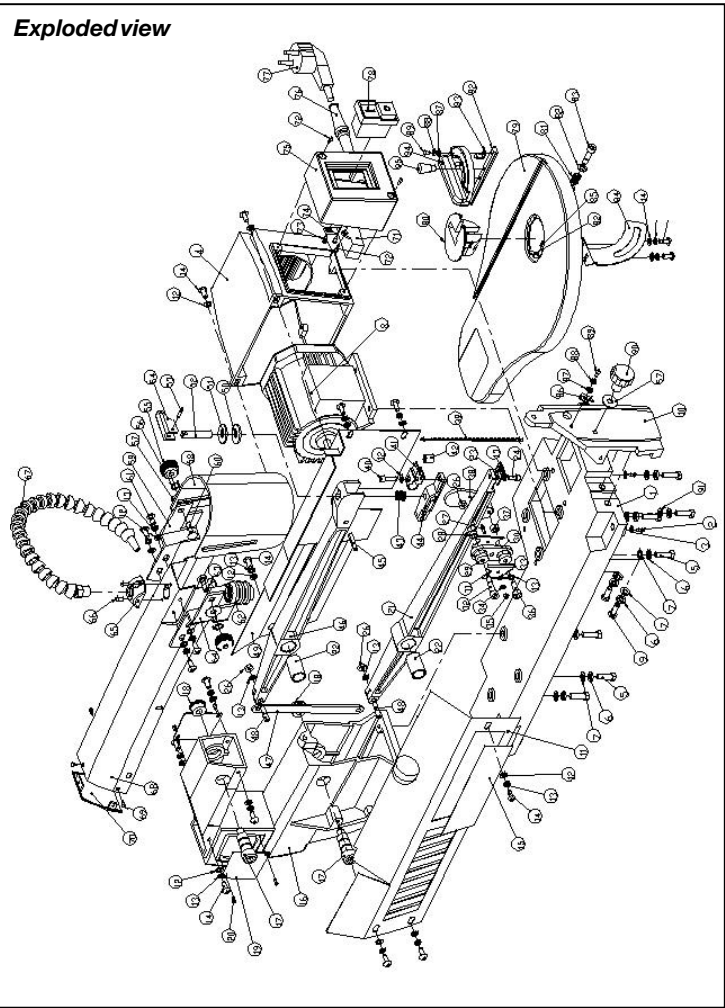
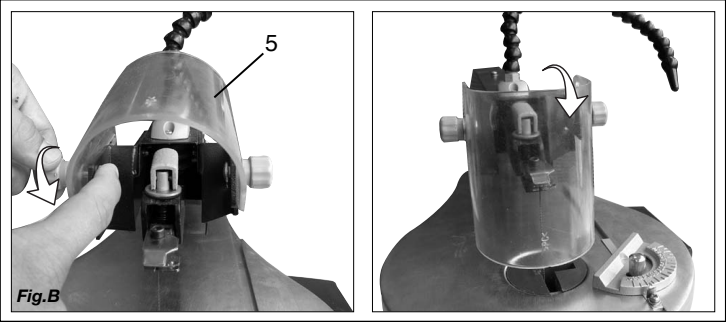
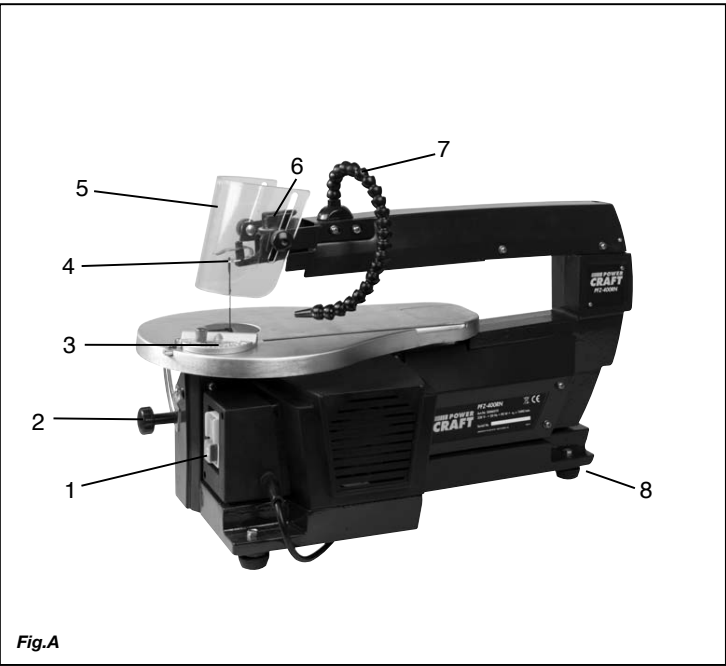


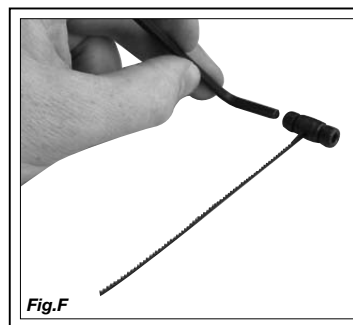
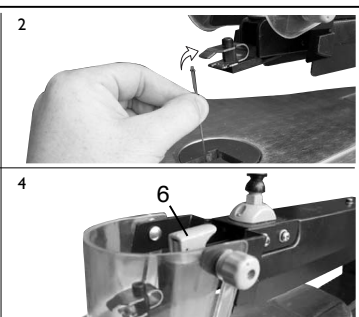
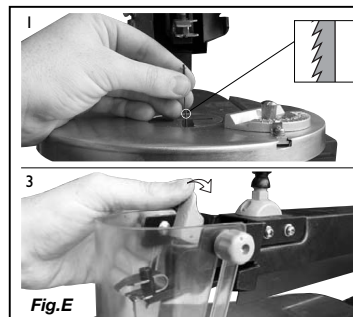
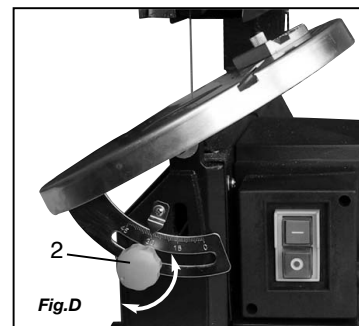
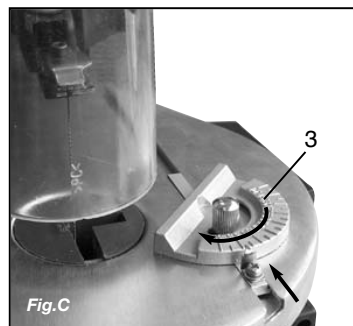
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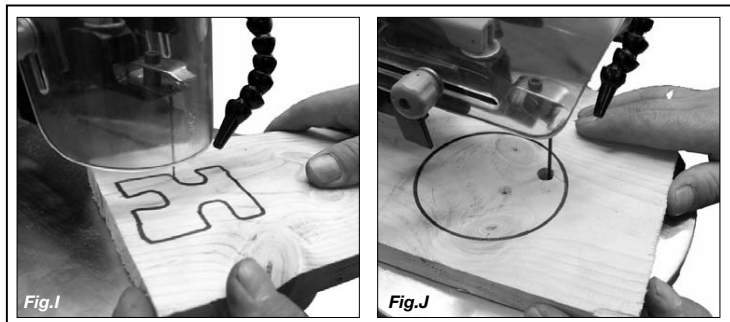
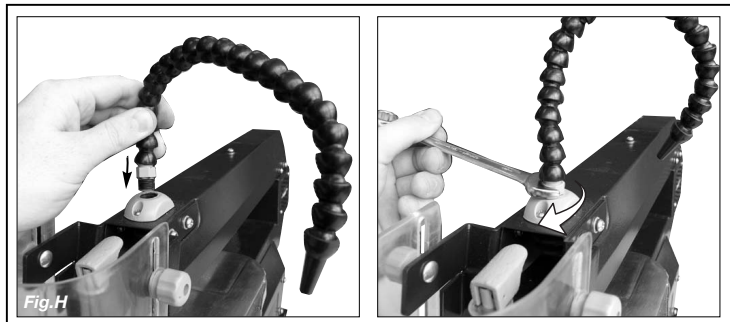
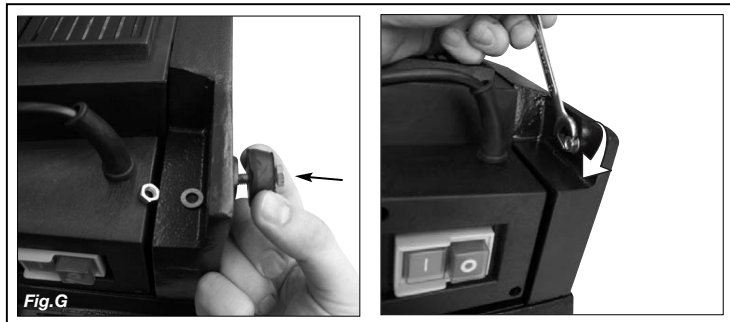




SPARE PARTS LIST PFZ-400RN

POWERCRAFT NR.	DESCRIPTION	POSITION
209886	KNOB	55
209920	PROTECTIVE COVER	58
209883	DUST BLOWING SYSTEM	67
209877	SWITCH	78
209873	TABEL INSERT	80
209876	PARALLEL GUIDE	87 TILL 89, 92 TILL 95
209881	RUBBER FEET	-





Warranty

The warranty conditions can be found on the separately enclosed guarantee card.

CE DECLARATION OF CONFORMITY (UK)

We declare under our sole responsibility that this product is in conformity with the following standards or standardized documents:

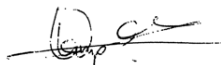
EN61029-1, EN55014-1, EN55014-2, EN61000-3-2, EN61000-3-3

in accordance with the regulations:

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

from 01-09-2005

ZWOLLENL



W. Kamphof
Quality department

It is our policy to continuously improve our products and we therefore reserve the right to change the product specification without prior notice.

Servotool B.V • Lingenstraat 6 • 8028 PM Zwolle • The Netherlands

SCROLL SAW PFZ-400RN

The numbers in the following text correspond with the pictures at page 2-4



Warning! Always read the instruction for electrical products carefully before use. It will help you understand your product more easily and avoid unnecessary risks. Keep this instruction manual in a safe place for future reference.

Introduction

This scroll saw is great for making toys, puzzles, games, fretwork and jewelry. Because of its cutting capacity it is a handy do-it-yourself tool. It cuts wood up to 50 mm thick as well as plastics and non-ferrous metals.

Contents:

1. Machine data
2. Safety instruction
3. Installing accessoires
4. Operation
5. Maintenance

1. MACHINE DATA

Voltage	230 V~
Frequency	50 Hz
Power consumption	90 W
Speed count w/o load/min	1440/min.
Max saw depth 90°	50 mm
Max saw depth 45°	10 mm
Weight	15 kg
Lpa (sound pressure) w/load	73 dB(A)
Lpa (sound pressure) w/o load	86 dB(A)
Tool class	1

Content of the packing

- 1 Scroll saw with mounted saw blade
- 1 Protective cover
- 2 Screw for installing the protective cover
- 10 Saw blades
- 2 Adapters for universal saw blades
- 2 Allen key
- 1 Dust blowing system
- 3 Rubber feet
- 3 Screws with nuts and rings for installing the rubber feet
- 1 Cross guide
- 1 Operating manual
- 1 Safety instructions

-
- 1 Guarantee card

Check the machine, loose parts and accessories for transport damage.

Features

Fig. A

1. On/off switch
2. Locking nut
3. Cross guide
4. Saw blade holder
5. Protective cover
6. Spanner
7. Dust blowing system
8. Rubber feet

2. SAFETY INSTRUCTIONS

The following symbols are used in these instructions for use:



Warning! Always read the instruction for electrical products carefully before use. It will help you understand your product more easily and avoid unnecessary risks. Keep this instruction manual in a safe place for future



In accordance with essential applicable safety standards of European directives



Denotes risk of personal injury, loss of life or damage to the tool in case of non-observance of the instructions in this manual.



Denotes risk of electric shock.



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



Wear ear and eye protection



Faulty and/or discarded electrical or electronic apparatus have to be collected at the appropriate recycling locations.

Safety Instructions attention!

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!

-
- cutting plywood, which is very abrasive;
 - when sawing wood which is thicker than the blade stroke;
 - when sawing hardwood;
 - when side pressure is placed on the blade

- The saw blade saws only during the downward stroke.
- Using both hands, slowly and with minimum pressure push the workpiece across the table towards the saw blade. This will prevent the blade from breaking or twisting.
- For optimal results, the saw blade must be sharp.
- Use the proper saw blade. The selection of the saw-blade depends on the thickness of the wood and the cut you would like to achieve. Keep the following in mind as a general rule: The thinner and harder the wood, the finer the teeth of the saw blade. Use a small blade to saw sharp curves.

Cutting an inside-angle:

Fig. J

- Firstly drill a hole by using an impact drill
- After putting the workpiece on the table install the saw blade

5. MAINTENANCE



Always disconnect the machine from the mains before carrying out any maintenance work.

The machine is designed to function faultlessly for a long period and with a minimum of maintenance. Extend its lifespan by regularly cleaning the machine and treating it correctly.

Cleaning

Regularly clean the machine with a soft cloth, preferably after each use. Keep the ventilator slot free of dust and other deposits.

Remove any tenacious deposits with a soft cloth moistened with soap. Do not use solvents (petrol, alcohol, ammonia, etc.) as they will damage the plastic parts.

Lubrication

The machine does not need lubricating.

Faults

Should a fault occur, e.g. after wear of a part, please contact the service address on the warranty card. In the back of this manual you find an exploded view showing the parts that can be ordered.

Environment

To prevent damage during transport, the appliance is delivered in a solid packaging which consists largely of reusable material. Therefore please make use of options for recycling the packaging.



Faulty and/or discarded electrical or electronic apparatus have to be collected at the appropriate recycling locations.

- Manually tilt the table until the desired angle has been reached (see the graduated scale on the machine).
- The angle can be read on a graduated scale on the machine.
- Retighten the locking nut.

Adapters for universal saw blades

Fig. F

The enclosed adapters should only be used with universal (= without pins on the end) saw blades

- Unscrew the Allen screws on the adapter counterclockwise
- Slide the universal saw into the gap between the Allen screws
- Tighten the Allen screws clockwise so the saw is clamped
- Install the saw blade (see INSTALLING THE SAW BLADE)

Installing the saw blade

Fig. E



Always disconnect the machine from the main power supply before carrying out any maintenance work



Use universal saw blades from any better DIY shop or machine shop.

- Select the correct blade for the kind of wood to be cut.
- Push the spanner upwards. (6).
- Push the saw blade through the slot, with the teeth pointing downwards. Make sure that the bolt of the saw blade (or saw-blade adapter) slides into the lower saw blade holder.
- Pull the saw blade up, so that the upper bolt (or saw-blade adapter) slides into the upper holder.
- Tighten the tensioner button until the saw blade has the required tension.
- Remove all tools and other objects from the saw table. Activate the current and allow the saw blade to run before starting to saw. The saw blade should run quietly.

Removing the saw blade



Always disconnect the machine from the mains before carrying out any maintenance work.

- Push the spanner (6) upwards until the spring is slack.
- Carefully push down the upper saw-blade holder and slightly lift the blade in order to facilitate its removal.
- Allow the blade to drop down slightly and push it forward, in order to loosen it from the lower holder.

Basic scroll saw operations and tips

- There is a learning curve for each person who wants to use this saw. During that period of time it is expected that some blades will break until you learn how to use the saw and receive the greatest benefit from the blades.
- Blades wear faster when:

1. Keep work area clear.

Cluttered areas and benches invite injuries.

2. Consider work area environment.

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

3. Guard against electric shock.

Prevent body contact with grounded surfaces (e.g. pipes, radiators, refrigerators).

4. Keep visitors away.

Visitors should be kept away from the work area at all times. Do not let visitors handle the machine at any time.

5. Store unused tools.

When not in use keep tools out of reach of children. Store in a dry and secure location.

6. Do not force tool.

Do not apply undue pressure as this may affect performance and may cause damage to the machine. Forcing the job also increases the potential for accidents.

7. Use right tool.

Do not force small tools or attachments to do the job of heavy duty tool. Do not use a tool for purposes not intended.

8. Dress properly.

Never carry tool by cord or yank it to disconnect it from electrical socket. Keep cord from heat, oil and sharp edges.

9. Use safety glasses.

Also use face or dust mask when operation is dusty.

10. Connect dust extraction equipment

If devices are provided for the connection of dust extraction and collection facilities ensure these are connected and properly used.

11. Do not abuse cord.

Use clamps or a vice to hold work. It's safer than using your hand and it frees both hands to operate tool.

12. Secure work.

Use clamps or a vice to hold work. It's safer than using your hand and it frees both hands to operate tool.

13. Do not overreach.

Keep proper footing and balance at all times.

14. Maintain tools with care.

Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and, if damaged, have repaired by authorized 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.

16. Remove adjusting keys and wrenches.

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

17. Avoid unintentional starting.

Do not carry plugged-in tools with finger on switch. Be sure switch is off when plugging in.

18. Outdoor use extension cords.

When tool is used outdoors, use only extension cords intended for use outdoors and so marked. Always use tool in conjunction with a residual circuit breaker device.

19. Stay alert.

Watch what you are doing. Use common sense. Do not operate tool when you are tired.

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, 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 authorized service centre unless otherwise indicated elsewhere in this instructions

manual. Have defective switches replaced by an authorized centre. Do not use tool if switch does not turn on and off.

21. Warning.

The use of any other accessory or attachment other than recommended in this operation instructions or the catalogue may present a risk of personal injury.

22. Have your tool repaired by an expert.

This appliance is manufactured to very high standards and meets relevant safety regulations. Repairs should only be done by a suitable qualified electrical engineer or otherwise.

23. Hearing protection should be worn.

24. Keep children away at any time

Electrical safety



Check that the mains voltage corresponds to the voltage listed on the rating plate.

Mains connection

Only use earthen sockets with earthing wire connected per the regulations.

Replacing the mains connection cable

The mains connection cable may only be replaced by a special cable in a specialised workshop.

Replacing cables or plugs

Dispose of old cables or plugs immediately after replacing them. It is dangerous to connect the plug of a loose cable to a wall socket.

Using extension cables

Only use an approved extension cable, corresponding to the machine power use. The wires must have a minimum cross section of 1.5 mm². If the cable is on a reel, it must be fully paid out.

Special safety precautions

- Wear safety goggles and a dust mask.
- This scroll saw machine is for indoor use only.
- Ensure that the teeth of the saw point downwards prior to using the machine.
- If teeth of the saw blade are missing or are damaged, then the saw blade must be replaced immediately.
- Use the scroll saw machine on a stable and flat surface.
- Never exert pressure on the sides of the saw blade because it may break.
- Check wooden work pieces for possible protruding nails etc. and remove these.
- Do not touch the sawing surface with your hands.
- Never leave the sawing machine unattended while it is running.
- Do not remove any wood debris etc, in the vicinity of the saw with your hands while it is running. Turn the machine off before removing the wood debris.

3. INSTALLING ACCESSORIES



Always disconnect the machine from the main power supply before carrying out any maintenance work

Installing the protective cover

Fig. B

- Before commissioning the machine, the protective cover (5) must be installed.
- Insert the screw from the inside left, then affix the washer and the safety ring from the right side. The safety ring may be left out optionally.
- Screw the knurled nut in tight.

Installing the cross guide

Fig. C

The cross guide (3) allows material to be bevelled, and can be simultaneously used to support the material as it is fed through the saw.

Mounting the rubber feet

Fig. G

The enclosed rubber feet contribute to a steady position of the scroll saw on your worktable

- Place the rubber foot on its place
- Connect the rubber foot with help of the enclosed bolt, ring and nut
- Tighten the nut with a wrench

Dust blowing system

Fig. H

The dust blowing system keeps the workpiece clean for more accurate scroll cuts. For best results, always direct air flow from the blower tube at blade and workpiece. To adjust, simply bend to desired position.

Installation:

- Place the dust blowing system on the hole on top of the machine
- Turn the blow pipe clockwise into the hole

4. OPERATION



Always observe the safety instructions and obey the relevant regulations.

Start - Push the green ON-switch to start the machine

Stop - Push the red OFF-switch to stop the machine

Tilting the table

Fig. D

The scroll saw table can be tilted through 45°. To do so:

- Unlock the locking nut (2) underneath the table.