

GB - ENGLISH

Operating Instructions

Dear Customer,

Many thanks for the confidence you have shown in us with the purchase of your new JET-machine. This manual has been prepared for the owner and operators of a JET JSS-16 scroll saw to promote safety during installation, operation and maintenance procedures. Please read and understand the information contained in these operating instructions and the accompanying documents. To obtain maximum life and efficiency from your machine, and to use the machine safely, read this manual thoroughly and follow instructions carefully.

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1. Declaration of conformity

On our own responsibility we hereby declare that this product complies with the regulations* listed on page 2. Designed in consideration with the standards**.

2. JET Group Warranty

The JET Group makes every effort to assure that its products meet high quality and durability standards and warrants to the original retail consumer/purchaser of our products that each product be free from defects in materials and workmanship as follows:

2 YEARS ON ALL MECHANICAL PARTS

1 YEAR ON ALL ELECTRICAL PARTS

This Warranty does not apply to defects due to directly or indirectly misuse, abuse, negligence or accidents, normal wear-and-tear, repair or alterations outside our facilities, or to a lack of maintenance.

The Jet group limits all implied warranties to the period specified above, from the date the product was purchased at retail.

To take advantage of this warranty, the product or part must be returned for examination, postage prepaid, to an authorized repair station designated by our office.

Proof of purchase date and an explanation of the complaint must accompany the merchandise.

If our inspection discloses a defect, we will either repair or replace the product, or refund the purchase price if we cannot readily and quickly provide a repair or replacement, if you are willing to accept a refund.

We will return repaired product or replacement at JET'S expense, but if it is determined there is no defect, or that the defect resulted from causes not within the scope of JET'S warranty, then the user must bear the cost of storing and returning the product.

The JET Group reserves the right to make alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever.

3. Safety

3.1 Authorized use

This machine is designed for sawing wood, wood derived materials as well as similar to be machined hard plastics only. Machining of other materials is not permitted and may be carried out in specific cases only after consulting with the manufacturer.

The proper use also includes compliance with the operating and maintenance instructions given in this manual.

The machine must be operated only by persons familiar with its operation and maintenance and who are familiar with its hazards. The required minimum age must be observed

The machine must only be used in a technically perfect condition

When working on the machine, all safety mechanisms and covers must be mounted.

In addition to the safety requirements contained in these operating instructions and your country's applicable regulations, you should observe the generally recognized technical rules concerning the operation of woodworking machines.

Any other use exceeds authorization. In the event of unauthorized use of the machine, the manufacturer renounces all liability and the responsibility is transferred exclusively to the operator.

3.2 General safety notes

Woodworking machines can be dangerous if not used properly. Therefore the appropriate general technical rules as well as the following notes must be observed.

Read and understand the entire instruction manual before attempting assembly or operation.

Keep this operating instruction close by the machine, protected from dirt and humidity, and pass it over to the new owner if you part with the tool.

No changes to the machine may be made.

Daily inspect the function and existence of the safety appliances before you start the machine. Do not attempt operation in this case, protect the machine by unplugging the mains cord.

Remove all loose clothing and confine long hair.

Before operating the machine, remove tie, rings, watches, other jewellery, and roll up sleeves above the elbows.

During machine operation the transparent sawguard must always be lowered to the workpiece

Insure that the workpiece does not roll when cutting round pieces.

Use suitable table extensions and supporting aids for difficult to handle workpieces.

Never cut pieces that are too small.

During cutting operation the workpiece must firmly be pressed against the table surface.

Do not perform any operation freehand.

Remove cut and jammed workpieces only when motor is turned off and the machine is at a complete standstill.

Do not reach under the scroll saw table when the motor is running.

Install the machine so that there is sufficient space for safe operation and workpiece handling.

Keep work area well lighted.

The machine is designed to operate in closed rooms and must be placed stable on firm and levelled ground.

Make sure that the power cord does not impede work and cause people to trip.

Keep the floor around the machine clean and free of scrap material, oil and grease.

Stay alert!
Give your work undivided attention.
Use common sense.

Do not operate the machine when you are tired.

Do not operate the machine under the influence of drugs, alcohol or any medication. Be aware that medication can change your behaviour.

Keep children and visitors a safe distance from the work area.

Never reach into the machine while it is operating or running down.

Never leave a running machine unattended. Before you leave the workplace switch off the machine.

Do not operate the electric tool near inflammable liquids or gases.
Normal brushfire might ignite.

Observe the fire fighting and fire alert options, for example the fire extinguisher operation and place.

Do not use the machine in a dump environment and do not expose it to rain.

Wood dust is explosive and can also represent a risk to health.

Dust from some tropical woods in particular, and from hardwoods like beach and oak, is classified as a carcinogenic substance.

Always use a suitable dust extraction device

Before machining, remove any nails and other foreign bodies from the workpiece.

Specifications regarding the maximum or minimum size of the workpiece must be observed.

Do not force the power tool. It will do a better and safer job and give you much better service if it is used at the rate for which it was designed.

Never operate with the guards not in place – serious risk of injury!

Connection and repair work on the electrical installation may be carried out by a qualified electrician only

Always unwind any extension cords fully.

Damaged extension cords replace immediately.

Do not use the power tool if the ON/OFF switch does not turn the power tool ON and OFF.

Make all machine adjustments or maintenance with the machine unplugged from the power source.

Remove defective saw blades immediately.

3.3 Remaining hazards

When using the machine according to regulations some remaining hazards may still exist

The moving saw blade in the work area can cause injury.

Broken saw blades can cause injuries.

Thrown workpieces can lead to injury

Wood chips and sawdust can be health hazards. Be sure to wear personal protection gear such as safety goggles ear- and dust protection.

Use a suitable dust exhaust system.

The use of incorrect mains supply or a damaged power cord can lead to injuries caused by electricity.

4. Machine specifications

4.1 Technical data

Saw blade length, pin type	127mm
Blade stroke	15mm
Blade speed	400~1600 SPM
Max cutting height at 90°	50mm
Table size	410x253mm
Table tilt	0°/45°left
Throat	406mm
Dust port diameter	35mm
Overall (LxWxH)	620x285x325mm
Weight	12 kg
Mains	230V ~1L/N/PE 50-60Hz
Motor power	90W
Reference current	0,6 A
Extension cord	H05VV-F 3G1mm ²
Installation fuse protection	10A

4.2 Noise emission

Determined according to EN 1807:1999 (Inspection tolerance 4 dB)

Acoustic power level (acc. EN 3746):
Idling 79,2 dB (A)

Acoustic pressure level (EN 11202):
Idling 72,1 dB (A)

The specified values are emission levels and are not necessarily to be seen as safe operating levels. This information is intended to allow the user to make a better estimation of the hazards and risks involved.

4.3 Content of delivery

1 Scroll saw
1 Transparent blade guard
1 Air blower
1 Allen key 4mm
1 Allen key 3mm
Set of 5 saw blades
Operating manual
Spare parts list

4.4 Scroll saw description

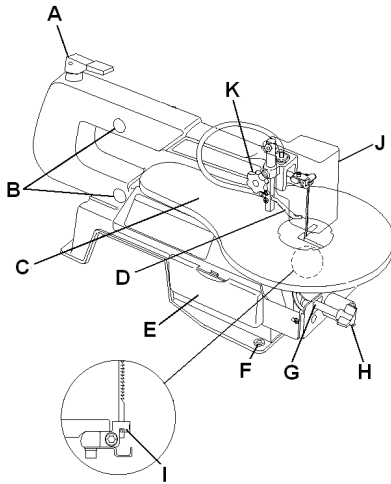


Fig 1

- A....Blade tension knob
- B....Bearing covers
- C....Table
- D....Sawdust blower
- E....Blade and key storage area
- F....Mounting holes
- G....Bevel scale
- H....Bevel lock knob
- I....Lower blade holder
- J....Transparent sawguard
- K....Blade guard lock knob

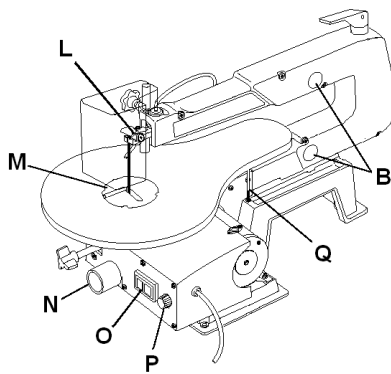


Fig 2

- L.....Upper blade holder
- M....Table insert
- N....Dust connection port
- O....ON/OFF button
- P....Variable speed control knob
- Q....Table 90° adjusting screw

5. Transport and start up

5.1 Transport and installation

The machine is designed to operate in closed rooms and must be placed stable on firm and levelled surface. The machine can be bolted down if required.

For packing reasons the machine is not completely assembled.

5.2 Assembly

If you notice any transport damage while unpacking, notify your supplier immediately. Do not operate the machine!

Dispose of the packing in an environmentally friendly manner.

Clean all rust protected surfaces with a mild solvent.

Mounting the sawdust blower:

Mount the sawdust blower (D, Fig 3) and point it towards the cutting area.

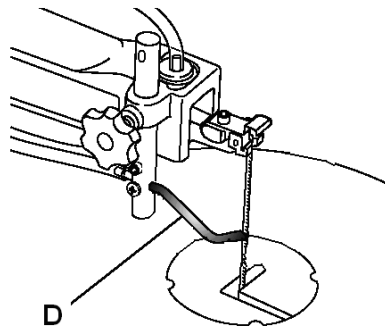


Fig 3

The sawdust blower keeps the work area clean.

Mounting the transparent blade guard:

Mount the transparent sawguard (J) to the vertical guide rod.

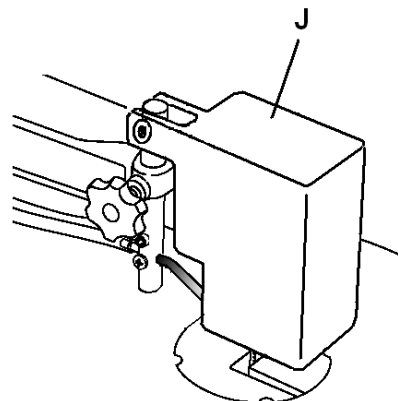


Fig 4

Note:

During machine operation the sawguard must always be lowered to the workpiece

5.3 Dust connection

The machine has a 35mm dust port (N, Fig 2) where it can be connected to a dust extractor.

5.4 Mains connection

Mains connection and any extension cords used must comply with applicable regulations.

The mains voltage must comply with the information on the machine licence plate.

The mains connection must have a 10A surge-proof fuse.

Only use power cords marked H05VV-F

Connections and repairs to the electrical equipment may only be carried out by qualified electricians.

5.5 Starting operation

You can start the machine with the ON/ OFF button.

The machine has variable speed 400-1600 SPM for cutting various materials.

With the variable speed control knob (P) the cutting speed can be chosen.

6. Machine operation

Correct working position:

In front of the machine standing in the direction of cutting.

Workpiece handling:

Insure that the workpiece does not roll when cutting round pieces.

Use suitable table extensions and supporting aids for difficult to handle workpieces.

Never cut pieces that are too small.

Press the workpiece down against the table to avoid uncontrollable lifting.

Remove the workpiece from the blade prior to turning the scroll saw ON.

Feed the workpiece towards the sawblade in the direction of the sawline, and cut as required by turning to follow the line drawn.

Do not perform any operation freehand.

Attention:

Always observe the safety instructions and adhere to the current regulations.

Ensure that the transparent sawguard is lowered to the workpiece before you start sawing.

Do not reach under the scroll saw table when the motor is running.

The condition of the sawblade should be checked before each machining process.

Work only with a sharp and flawless sawblade.

Bevel cutting:

The table can be tilted between 0° and 45° for bevel cutting.

Loosen the locking knob (H).

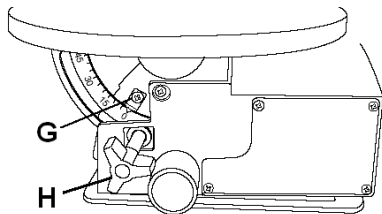


Fig 5

Tilt the table to the left until the desired angle on the scale (G) has been reached.

Retighten the locking knob.

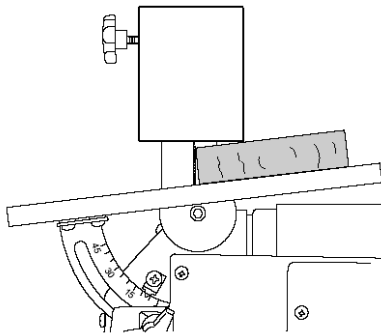


Fig 6

Attention:

Angle cutting requires more care. Be careful.

7. Setup and adjustments

General note:

Setup and adjustment work may only be carried out after the machine is protected against accidental starting by pulling the mains plug.

7.1 Changing the sawblade

The machine accepts pin blades and plain end blades.

Check sawblade for flaws (cracks, broken teeth, bending) before installation. Do not use faulty sawblades.

The sawblade teeth must point in cutting direction (down)

The sawblades may only be changed when the mains plug is pulled!

Open the transparent sawguard.

Remove the table insert (M)

Release blade tension.

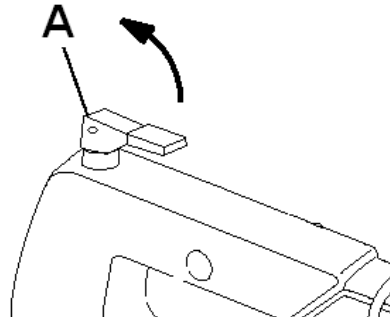


Fig 7

The quick release blade tension knob (A) allows a quick and easy blade change.

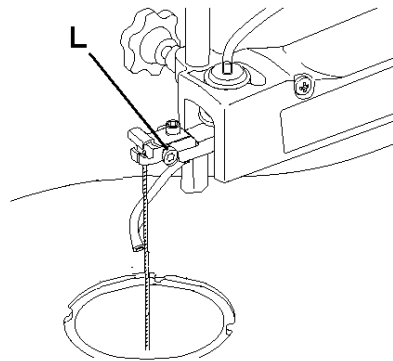


Fig 8

Loosen the upper and lower blade holder screws (L and I).

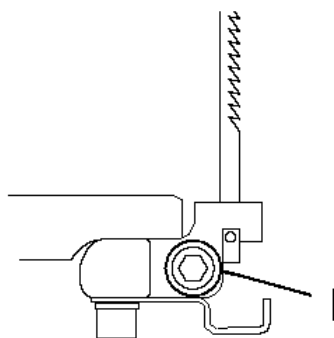


Fig 9

Replace the sawblade.

The teeth of the blade must point in the cutting direction (down).

The sawblade tension can be adjusted by turning the tension knob.

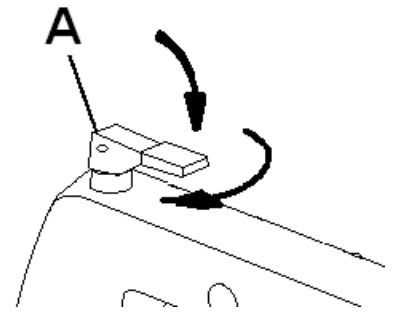


Fig 10

Turn clockwise to increase tension (Fig 10).

Reposition the table insert and the transparent sawguard.

8. Maintenance and inspection

General notes:

Maintenance, cleaning and repair work may only be carried out after the machine is protected against accidental starting by pulling the mains plug.

Repair and maintenance work on the electrical system may only be carried out by a qualified electrician.

Clean the machine regularly.

Inspect the proper function of the dust extraction daily.

All protective and safety devices must be re-attached immediately after completed cleaning, repair and maintenance work.

Defective safety devices must be replaced immediately.

Cleaning:

Regularly clean the machine housing with a soft cloth preferably after each use.

If the dirt does not come off use a soft cloth moistened with soapy water.

Never use solvents such as petrol, alcohol, ammoniac water, etc. These solvents may damage the plastic parts.

Saw blades:

Only use sharp saw blades.

Lubrication:

Lubricate the arm bearings after every 50 hours of use.

10. Available accessories

Stock number 10000809

Set of 5 sawblades

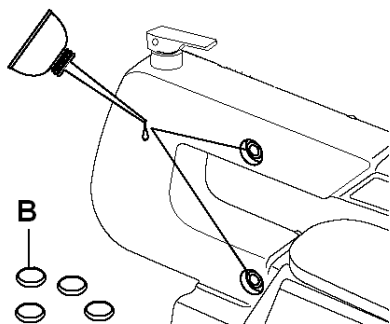


Fig 11

Remove the 4 bearing covers (B).

Apply a generous amount of light oil (SAE 20).

Replace the bearing covers.

Motor brushes:

The collector brushes are due to wear and may need replacement.

- Disconnect the machine from the power source, pull mains plug.

-remove the brush covers.

-Replace the collector brushes (Jet Article Number: JSS16-0832 pieces needed).

-reattach the brush covers.

9. Trouble shooting

Motor doesn't start

*No electricity-
check mains and fuse.

*Defective switch, motor or cord-
consult an electrician.

*Motor brushes worn-
Replace brushes.

Machine vibrates excessively

*Stand on uneven surface-
adjust base for even support.

Cut is not square

*Bevel stop setting is bad.

Cutting surfaces is bad

*Wrong sawblade used

*resin collection on sawblade

*sawblade is dull

*sawblade damaged-
replace sawblade immediately

*workpiece inhomogeneous

*Feed pressure too high-
Do not force the workpiece.