



**UK P2**

225mm HAND-HELD DRYWALL SANDER

## Instruction Manual

Read instructions before operating this tool.

**FR P16**

PONCEUSE DE CLOISONS SÈCHES À MAIN DE 225 MM

## Manuel d'Instruction

Merci de lire ces instructions avant d'utiliser l'outil





**Evolution Power Tools reserves the right to make improvements and modifications to the design and technical specification of this product without prior notification.**

**DRYWALL SANDER - SPECIFICATIONS**

<b>Power</b> (230V ~ 50Hz) (Watts):	1050
<b>RPM</b> Rated speed (min <sup>-1</sup> ):	1500-2300
<b>Recommended Maximum Duty Cycle</b> (Minutes):	30
<b>Abrasive paper size</b> (Diametre mm):	225
<b>Dust extraction hose length</b> (metres):	2
<b>Weight</b> (kg):	2.8
<b>Noise and Vibration Data:</b>	
Sound Pressure LPA:	88dB(A) K=3dB(A)
Sound Power Level LWA:	99dB(A) K=3dB(A)
Vibration Level:	4.915m/s <sup>2</sup> K=1.5m/s <sup>2</sup>

**INFORMATION:**

- that the declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another;
- that the declared vibration total value may also be used in a preliminary assessment of exposure

**WARNING:**

- that the vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used;and
- of the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

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### IMPORTANT

UK



Please read these operating and safety instructions carefully and completely. For your own safety if you are uncertain about any aspect of using this equipment, please access our Technical Help Resource. If outside the UK please contact your supplier.

### Helpline.

**UK:** 0870 609 2297

**Email:** [info@evolutionpowertools.com](mailto:info@evolutionpowertools.com)

### EVOLUTION EF225DWSHH

**Congratulations on your purchase of an Evolution Power Tool machine. Please complete your product registration online to validate your machine's warranty period and ensure prompt service if needed. We sincerely thank you for selecting a product from Evolution Power Tools.**

### 12 MONTH LIMITED WARRANTY.

Evolution Power Tools reserves the right to make improvements and modifications to design without prior notice.

Evolution Power Tools will, within twelve (12) months from the original date of purchase, repair or replace any goods found to be defective in materials or workmanship. This warranty is void if the tool being returned has been used to sand materials beyond the recommendations in the Instruction Manual or if the machine has been damaged by accident, neglect, or improper service. This warranty does not apply to machines and / or components which have been altered, changed, or modified in any way, or subjected to use beyond recommended capacities and specifications. Electrical components are subject to respective manufacturers' warranties. All goods returned defective shall be returned prepaid freight to Evolution Power Tools. Evolution Power Tools reserves the right to optionally repair or replace it with the same or equivalent item. There is no warranty – written or verbal – for consumables. In

no event shall Evolution Power Tools be liable for loss or damage resulting directly or indirectly from the use of our merchandise or from any other cause. Evolution Power Tools is not liable for any costs incurred on such goods or consequential damages. No officer, employee or agent of Evolution Power Tools is authorised to make oral representations of fitness or to waive any of the foregoing terms of sale and none shall be binding on Evolution Power Tools. Questions relating to this limited warranty should be directed to the company's head office, or contact your supplier.

**IMPORTANT SAFETY INSTRUCTIONS****UK**

To reduce the risk of electric shock, this equipment is fitted with an approved cord and plug for its intended country of use. Do not change the cord or plug in any way.

**GENERAL SAFETY RULES****UK**

**Read and understand all instructions before operating this product. Failure to follow all instructions listed below may result in electric shock, fire and / or serious personal injury. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.**

**WARNING:** When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury.

**POWER TOOL GENERAL SAFETY INSTRUCTIONS**

(These General Power Tool Safety Instructions are as specified in BS EN 60745-1:2009 & EN 61029-1:2009)

**WARNING: Read all safety warnings and 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) General Power Tool Safety Warnings [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, gasses or dust. Power tools create sparks which may ignite the dust or fumes.**

**c) Keep children and bystanders away while operating power tool. Distractions can cause you to lose control.**

**2) General Power Tool Safety Warnings [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 the 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) General Power Tool Safety Warnings [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 masks, 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 the 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 key left attached to a rotating part of a 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 that these are connected and properly used.** *Use of dust collection can reduce dust-related hazards.*

### 4) General Power Tool Safety Warnings [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 a rate for which it was designed.*

**b) Do not use the power tool if the switch does not turn it on or off.** *Any power tool that cannot be controlled with the switch is*

*dangerous and must be repaired.*

**c) Disconnect the power tool from the power source and/or battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventative 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 moving parts and any other condition that may affect the power tools 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) General Power Tool Safety Warnings [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.*

#### HEALTH ADVICE

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**WARNING:** When drilling, sanding, sawing or grinding, dust particles will be produced. In some instances, depending on the materials you are working with, this dust can be particularly harmful to you (e.g. lead from old gloss paint). You are advised to consider the risks associated with the

materials you are working with and to reduce the risk of exposure. Some wood and wood type products, especially MDF (Medium Density Fibreboard), can produce dust that may be hazardous to your health. We recommend the use of an approved face mask with replaceable filters when using this machine, in addition to using the dust extraction facility.

**You should always:**

- Work in a well-ventilated area.
- Work with approved safety equipment, such as dust masks that are specially designed to filter microscopic particles.

**WARNING:** If you suspect that paint on surfaces in your home contains lead, seek professional advice. Lead based paints should only be removed by a professional and you should not attempt to remove it yourself. Once the dust has been deposited on surfaces, hand to mouth contact can result in the ingestion of lead. Exposure to even low levels of lead can cause irreversible brain and nervous system damage. The young and unborn children are particularly vulnerable.

**VIBRATION****UK**

**WARNING:** When using this machine the operator can be exposed to high levels of vibration transmitted to the hand and arm. It is possible that the operator could develop "Vibration white finger disease" (Raynaud syndrome). This condition can reduce the sensitivity of the hand to temperature as well as producing general numbness. Prolonged or regular users of sanding machines should monitor the condition of their hands and fingers closely. If any of the symptoms become evident, seek immediate medical advice.

- The measurement and assessment of human exposure to hand-transmitted vibration in the workplace is given in: BS EN ISO 5349-1:2001 and BS EN ISO 5349-2:2002

- Many factors can influence the actual vibration level during operation e.g the work surfaces condition and orientation and the type and condition of the abrasive disc being used. Before each use, such factors should be assessed, and where possible appropriate working practices adopted. Managing these factors can help reduce the effects of vibration:

**Handling**

Handle the machine with care, allowing the machine to do the work. Avoid using excessive physical effort on any of the machines controls. Consider your security and stability, and the orientation of the machine during use.

**Work Surface**

Consider the work surface material; its condition, density, strength, rigidity and orientation.

**ADDITIONAL SAFETY INSTRUCTIONS FOR DRYWALL SANDERS**

**WARNING:** Be sure to read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

**1. Know your power tool.** Read operator's manual carefully. Learn the applications and limitations, as well as the specific potential hazards related to this tool.

**2. Always wear safety glasses or eye shields when using this machine.**

Everyday eyeglasses have only impact-resistant lenses; they are not safety glasses.

**3. Always protect your lungs.** Wear a face mask or dust mask that is specially designed to filter microscopic particles. Do not use any Drywall Sander if it is suspected that asbestos or lead could be present in the wall material. Contact the relevant authorities for advice.

**4. Always protect your hearing.** Wear hearing protection during extended periods of operation. Wear other PPE (Personal

Protection Equipment) as may be necessary for the job at hand. If unsure, consult competent advice from a supervisor or other responsible person.

**5. Inspect the machines power cord regularly and if damaged have it repaired or replaced.** Always be aware of the power supply cords location and routing. Ensure that the power cord is safely routed and cannot be damaged in any way by contact with sharp or heavy objects etc. Ensure that the power cord route does not pose a 'trip hazard'.

**6. Always check for damaged parts.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine if it will operate properly and perform its intended function. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. A guard or other part that is damaged should be properly repaired or replaced at a qualified service centre.

**7. Do not abuse the power supply cord.** Never use the cord to carry the tools or pull the plug from the outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

**8. Always make sure that any extension cord you use is in good condition, and if used outdoors is of a suitable type, and so labelled.** When using an extension cord be sure to use one that is heavy enough to carry the current that your tool will draw. An undersized cord will cause a drop in line voltage, resulting in loss of power and possible overheating.

**9. Do not use the tool while tired or under the influence of drugs, alcohol or any medication.** Following this rule will reduce the risk of electric shock, fire or serious personal injury.

**10. Save these instructions.** Refer to them frequently and use them to instruct others who may use this tool. If someone borrows this tool, make sure they have these instructions also.

**11. Ensure that the operator is adequately trained in the use adjustment and operation and operation of the machine.**

All operators should have read and understood the instructions contained within this manual, before commencing operations.

**12. Ensure that the workplace lighting is adequate, and/or provide extra lighting for the immediate work area.**

Poorly illuminated workplaces are inherently dangerous.

**13. Keep the work area well ventilated.**

If possible open some windows and put an exhaust fan in one of them to move air from the inside to the outside. Post **WARNING** notices to alert bystanders that potentially hazardous operations are taking place nearby.

**14. Use a vacuum dust extraction machine in conjunction with this sander.**

The workplace should be kept as clean and dust free as possible. A dust filled room has an explosive potential.

**15. Ensure that there are no sources of ignition nearby.** Dust suspended in the air has an explosive potential.

**16. Do not connect a domestic vacuum cleaner to this machine.** A domestic vacuum cleaner is not suitable for the collection of drywall dust particles.

#### SAFETY INSTRUCTIONS FOR ALL OPERATIONS

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#### Safety Warnings Common for Sanding Operations:

**a) This power tool is intended to function as a sander tool. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.**

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

**b) Operations such as grinding, sanding, wire brushing, polishing or cutting-off are not recommended to be performed with this power tool.** Operations for which the power tool was not designed may create a hazard and cause personal injury.

**c) Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.

**d) The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.**

Accessories running faster than their rated speed can break and fly apart.

**e) The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.

**f) The arbour size of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool.** Accessories with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.

**g) Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.**

Damaged accessories will normally break apart during this test time.

**h) Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments.** The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable

of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

**i) Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.

**j) Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.**

Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

**k) Position the cord clear of the spinning accessory.** If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.

**l) Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.

**m) Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.

**n) Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

**o) Do not operate the power tool near flammable materials.** Sparks could ignite these materials.

**p) Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

**KICKBACK & RELATED WARNINGS****UK**

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

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

**a) Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.**

The operator can control torque reactions or kickback forces, if proper precautions are taken.

**b) Never place your hand near the rotating accessory.** Accessory may kickback over your hand.

**c) Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.

**d) Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.**

Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.

**e) Do not attach a saw chain woodcarving blade or toothed**

**saw blade.** Such blades create frequent kickback and loss of control.

**SAFETY WARNINGS SPECIFIC FOR SANDING OPERATIONS****UK**

**a) Do not use excessively oversized sanding disc paper. Follow manufacturers recommendations, when selecting sanding paper.**

Larger sanding paper extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc or kickback.




**WARNING:** the operation of any sanding machine can result in foreign objects being thrown towards your eyes, which could result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shield or a full face shield where needed.

**WARNING:** If any parts are missing, do not operate your machine until the missing parts are replaced. Failure to follow this rule could result in serious personal injury.

**SAFETY LABELS & SYMBOLS**

**WARNING:** Do not operate this machine if warning and/or instruction labels are missing or damaged. Contact Evolution Power Tools for replacement labels.

**Note:** All or some of the following symbols may appear in the manual or on the product.

Symbol	Description
V	Volts
A	Amperes
Hz	Hertz
Min <sup>-1</sup>	Rated speed
~	Alternating Current
n <sub>0</sub>	No Load Rated speed
	Double Insulated
	Wear Safety Goggles
	Wear Ear Protection

## INTENDED USE OF THIS POWER TOOL

**WARNING:** This product is a Drywall Sanding Machine and has been designed to be used with most commercially available sanding discs. Only use sanding discs designed for use in this machine and/or those recommended specifically by **Evolution Power Tools Ltd.**

**When fitted with a correct abrasive sanding disc this machine can be used to sand:**

- Drywall walls and ceilings.

**WARNING:** This machine is not suitable for sanding materials that may contain asbestos or lead based products.

## PROHIBITED USE OF THIS POWER TOOL

**WARNING:** This product is a Drywall Sanding Machine and must only be used as such. It must not be modified in any way, or used to power any other equipment or drive any other accessories other than those mentioned in this Instruction Manual.

**WARNING:** This product is not intended for use by persons (including children) with reduced physical, sensory or mental

capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the safe use of the product by a person responsible for their safety and who is competent in its safe use.

## GETTING STARTED

**UK**

## UNPACKING

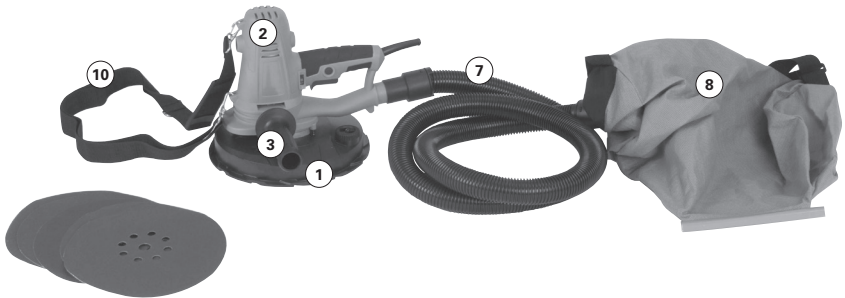
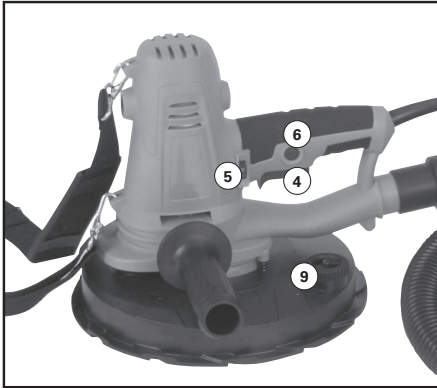
**Caution:** This packaging contains sharp objects. Take care when unpacking. Remove the machine, together with the accessories supplied from the packaging. Check carefully to ensure that the machine is in good condition and account for all the accessories listed in this manual. Also make sure that all the accessories are complete. If any parts are found to be missing, the machine and its accessories should be returned together in their original packaging to the retailer. Do not throw the packaging away; keep it safe throughout the guarantee period. Dispose of the packaging in an environmentally responsible manner. Recycle if possible. Do not let children play with empty plastic bags due to the risk of suffocation.

## ITEMS SUPPLIED

DESCRIPTION	QUANTITY
Instruction Manual	1
Sanding Discs (assorted)	8
Dust Extraction Hose	1
Side Assist Handle	1
Dust Bag	1
Hose Adaptor	1
Carry Belt	1
Replacement Carbon Brush Set (power)	1
Hex Key 5mm	1

## OVERALL VIEW OF DRYWALL SANDER

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**1. Sprung Sanding Head**

**2. Power**

**3. Side Assist Handle**

**4. Power On/Off Trigger**

**5. Power rated speed control**

**6. Trigger Locking Button**

**7. Dust Extraction Hose**

**8. Dust Collection Bag**

**9. Suction Regulator**

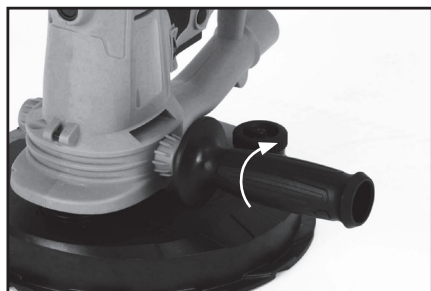
**10. Machine Carry Strap**

## ASSEMBLY

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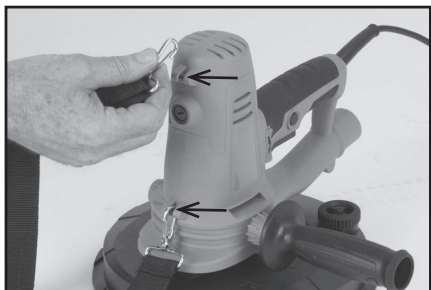
Some minor assembly is required to prepare the EF225DWSHH for use.

- Attach the Side Assist Handle to the machine by screwing it into the preferred boss on the left hand or right hand side of the machine. **(Fig. 1)**



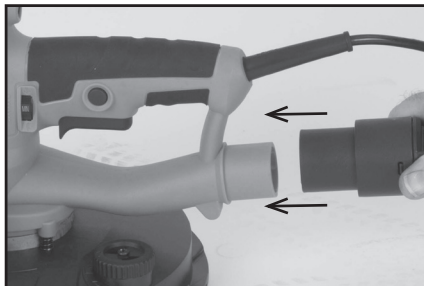
**Fig. 1**

- Attach the Carry Strap to the main body of the machine (if required) by clipping it to the dedicated attachment pins. **(Fig. 2)**



**Fig. 2**

- Push the Dust Extraction Hose onto the dust extraction port on the machines main body. **(Fig. 3)**



**Fig. 3**

## OPERATION

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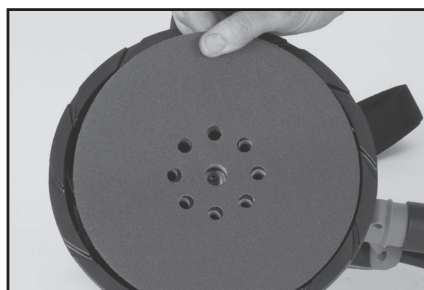
### Fitting or removing an Abrasive Sanding Disc

**WARNING:** Only remove or replace an abrasive sanding disc with the machine disconnected from the power supply.

**Note:** Only use sanding discs which are specifically designed for use in this machine. This machine uses a hook and loop system which enables very quick changes of the abrasive sanding disc. The hooks on the Power Driven Backing Pad engage with the loops on the back of the abrasive sanding disc.

### To fit an abrasive sanding disc:

- Place the new abrasive disc accurately onto the Backing Pad.
- Press it firmly by hand into place.
- Be careful to ensure that the nine (9) holes in the abrasive sanding disc line up perfectly with the nine (9) holes in the Backing Pad. **(Fig. 4)**



**Fig. 4**

**To remove an Abrasive Sanding Disc:**

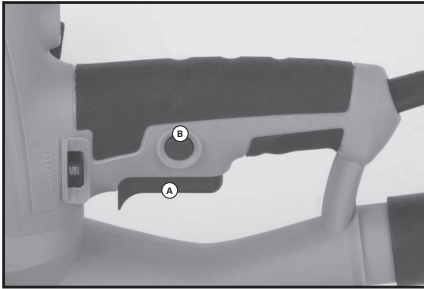
- Lift the abrasive disc at any point along its edge, and gently peel upwards and away from the Backing Pad.

**To switch the machine 'On':**

- Press the Trigger Switch. (Fig. 5A)

**Note:** For operator convenience the On/Off Trigger Switch can be locked in the 'On' position.

- Push in the 'Trigger Locking Button' (Fig. 5B) to lock the Trigger in the 'On' position.



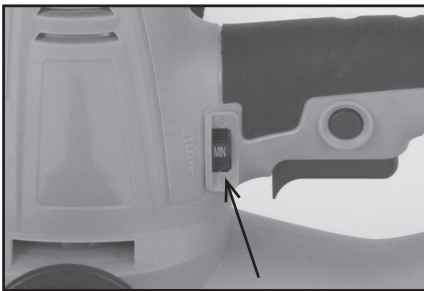
**Fig. 5A +B**

**To switch 'Off':**

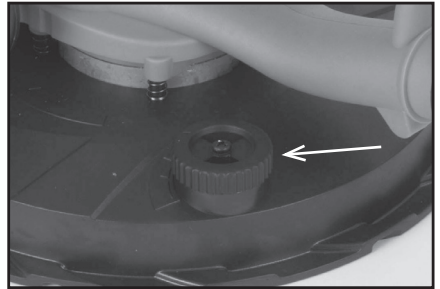
- Press the Trigger slightly and then release.

**The Power Rated speed Control (Fig. 6)**

Rotate the thumb wheel until the required rated speed is obtained.



**Fig. 6**

**Sanding Head Suction Regulator Control (Fig. 7)**

**Fig. 7**

The Suction Control Regulator allows the operator to adjust the power of the suction provided by the inbuilt dust extraction system. Extra air can be allowed into the Sanding Head, reducing the suction power. This may be necessary as at maximum suction the Sanding Head may become difficult to move or sweep over the work surface. Regulating the volume of air admitted to the Sanding Head can reduce operator workload by reducing the effort required to sweep the Sanding Head over the work surface.

**To adjust the suction:**

- Rotate the Regulator counter clockwise fully, for reduced suction.
- Rotate the Regulator clockwise fully for maximum suction.

**Note:** The Regulator has three (3) positive stop positions.

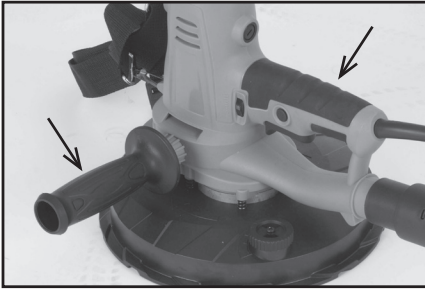
**The Sprung Sanding Head**

The Sanding Head is attached to the machine by four (4) sprung loaded pins. This allows the Sanding Head to move slightly in multiple directions. When in use the Sanding Head can effectively 'float' over the work surface compensating automatically for uneven wall surfaces. This action enables the user to sweep the work surface with minimal changes to their stance and foot position, allowing greater security and better balance for the operator.

**OPERATION****UK****Holding the Drywall Sander**

The Drywall Sander should always be held with both hands, one on the Trigger Switch Handle, and the other on the Side Assist Handle. (Fig. 8)

**Note:** Attach the Side Assist Handle to that side of the machine that best suits the operator or the application.

**Fig. 8**

**Note:** Although the sander is a light weight design, the user should be aware that prolonged use can cause operator muscle fatigue.

We recommend a maximum operator duty cycle of 10 – 12 minutes, after which the operator should rest for 5 minutes before resuming sanding operations.

**Carry Straps**

Carry straps are provided for both the Sanding Machine and the Dust Collection Bag. These should be used whenever necessary to aid operator comfort and safety.

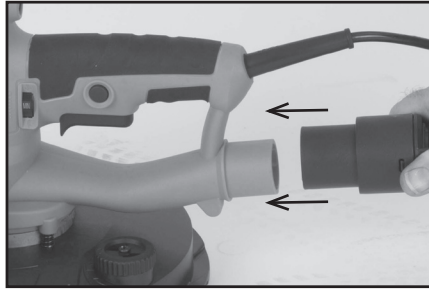
**Operator Stance**

The operator should adopt a comfortable stance with their feet apart and firmly balanced. Both feet should be on the ground or floor. It is not acceptable to have one foot on the floor and the other on a stand or ladder rung etc. as this precludes the operator from achieving a proper balanced stance.

**Caution:** If 'reach' or access considerations necessitate the use by the operator of a 'stand – on' platform, such a platform must be suitable and stable in use e.g. a folding inside scaffold or 'hop on' work platform. The operator must NEVER overstretch.

**SANDING – Operating Advice**

- Connect the dust extraction hose to the machine by pushing it onto the machines dust extraction port. (Fig. 9).

**Fig. 9**

**Note:** The Dust Extraction Hose is permanently attached to the Dust Collection Bag.

- Adjust the Carry Straps for operator convenience and comfort.
- Ensure that the mains lead and dust collection hose do not pose a 'trip' or any other hazard to the operator or any bystanders.
- Adopt the correct stance for the operation.
- Switch the machine 'On' and position the Drywall Sander Sanding Head lightly against the work surface, and apply just enough pressure to align the Sanding Head with the work surface.
- Gently apply more pressure to engage the rotating abrasive disc onto the work surface.
- Move the Sander across the work surface in long overlapping sweeps. Apply only enough pressure to keep the abrasive disc flat against the work surface. Excessive pressure should be avoided as it can cause swirl marks and unevenness in the work surface.

- Keep the Sander in constant motion whilst the abrasive disc is in contact with the work surface. Use a steady, sweeping motion, allowing the rotating abrasive disc to 'float' over the work surface. Moving the Sander erratically or concentrating for too long on one area can cause swirl marks or unevenness in the work surface.

**Caution:** Always keep your hands away from the Sanding Head. The Sanding Head swivels in multiple directions and could pinch your hands.

**WARNING:** Do not allow the rotating abrasive disc to contact sharp objects such as protruding nails, screws etc, or wall architecture such as electrical boxes or switch plates. Damage to the Sander or the wall fittings could result.

### Dust Collection

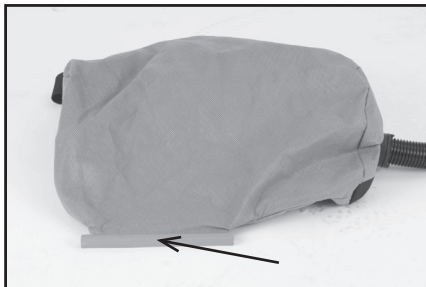
Dust collection is automatic. Wall dust will be sucked from the Sanding Head, along the dust extraction hose and deposited in the Dust Collection Bag.

**Note:** We recommend for operational efficiency that the Dust Collection Bag is emptied when it is approximately 2/3 full.

### Emptying the Dust Collection Bag

**WARNING:** Only empty the Dust Collection Bag when the machine is switched 'Off'.

The Dust Collection Bag has an open seam which is sealed by a plastic slide fastener. (**Fig. 10**)



**Fig. 10**

Slide this fastener from the Dust Collection Bag to open the seam.

Dispose of the contents of the Dust Collection Bag in an environmentally responsible way.

**Note:** It may be necessary for the operator to wear a dust mask and other PPE (Personal Protection Equipment) as necessary when disposing of the contents of the Dust Bag.

Reseal the seam by sliding the plastic fastener back onto the Dust Collection Bag.

### MAINTENANCE

UK

**Note:** Any maintenance must be carried out with the machine switched off and disconnected from the mains/battery power supply. Check that all safety features and guards are operating correctly on a regular basis. Only use this machine if all guards/safety features are fully operational.

All power bearings in this machine are lubricated for life. No further lubrication is required. Use a clean, slightly damp cloth to clean the plastic parts of the machine. Do not use solvents or similar products which could damage the plastic parts.

**WARNING:** Do not attempt to clean by inserting pointed objects through openings in the machine's casings etc. The machine's air vents should be cleaned using compressed dry air.

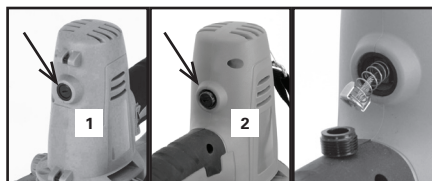
Excessive sparking may indicate the presence of dirt in the power or worn out carbon brushes.

## Checking and replacing the Carbon Brushes

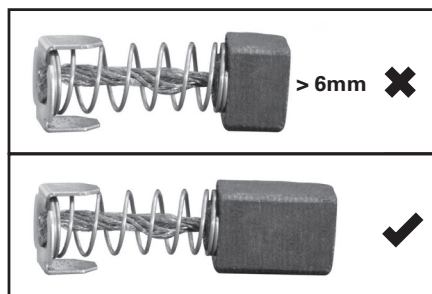
**WARNING:** Disconnect the machine from the power supply before attempting to check or replace the Carbon Brushes.

### To remove the brushes:

- Unscrew the 2 plastic caps found towards the base of either side of the motor housing. Be careful as the caps are spring-loaded.



- You must replace both carbon brushes if one has **less than 6mm** length of carbon remaining, or if the spring or wire is damaged or burned.
- Withdraw the brushes with their springs.



- If replacement is necessary renew the brushes and replace the caps.
- Ensure the caps screw back freely.

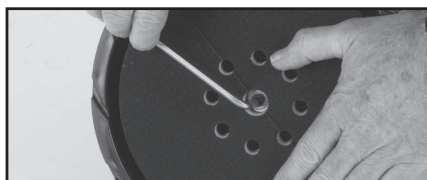
**Note:** Used but serviceable brushes can be replaced, but only as long as they are returned to the same position, and inserted the same way round, as they were removed from the machine.

- Run new brushes without load for approximately 5 minutes. This will help the bedding-in process.

## To replace the Power Driven Backing Pad

**WARNING:** Only attempt this procedure with the machine disconnected from the power supply.

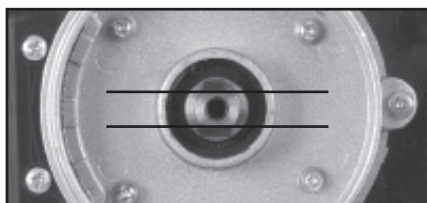
- Remove any installed sanding disc to reveal the Backing Pad and the centrally located socket headed screw that attaches it to the power drive spindle.
- Holding the Backing Pad with the palm of one hand, loosen the socket headed screw using the supplied 5mm Hex Key with the other hand. (**Fig. 11**)



**Fig. 11**

- Remove the socket headed screw and lift away the Backing Pad.

**Note:** The two (2) flats machined on the power spindle that engage in the Backing Pad to provide positive drive and location. (**Fig. 12**)



**Fig. 12**

## ENVIRONMENTAL PROTECTION

UK

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

**EC DECLARATION OF CONFORMITY**

In accordance with EN ISO 17050-1:2004

**EF225DWSHH**

The manufacturer of the product covered by this Declaration is:

**Evolution Power Tools**, Venture One, Longacre Close, Holbrook Industrial Estate, Sheffield, S20 3FR

The manufacturer hereby declares that the machine as detailed in this declaration fulfils all the relevant provisions of the Machinery Directive and other appropriate directives as detailed below. The manufacture further declares that the machine as detailed in this declaration, where applicable, fulfils the relevant provisions of the Essential Health and Safety requirements.

**The Directives covered by this Declaration are as detailed below:**

**2006/42/EC.** Machinery Directive.  
**2004/108/EC.** Electromagnetic Compatibility Directive  
**93/68/EC.** The CE Marking Directive  
**2011/65/EU.** The Restriction of the Use of certain Hazardous Substances  
 in Electrical Equipment (RoHS) Directive  
**2002/96/EC as amended by 2003/108/EC.** The Waste Electrical and Electronic Equipment (WEEE) Directive

**And is in conformity with the applicable requirements of the following documents**

**EN 60745-1:2009+A11:2010**  
**EN 60745-2-3:2011**  
**EN 55014-1:2006/+A1:2009**  
**EN 55014-2:1997/+A1:2001/+A2:2008**  
**EN 61000-3-2:2006/+A1:2009/+A2:2009**  
**EN 61000-3-3:2008**  
**EN 62321:2009**

**Product Details**

Description:	<b>225MM HAND HELD DRYWALL SANDER</b>
Evolution Model No:	<b>EF225DWSHH</b>
Factory Model No:	<b>R7235A, R7235B</b>
Brand Name:	<b>EVOLUTION</b>
Voltage:	<b>230-240V</b>
Input:	<b>50Hz</b>

The technical documentation required to demonstrate that the product meets the requirements of directive has been compiled and is available for inspection by the relevant enforcement authorities, and verifies that our technical file contains the documents listed above and that they are the correct standards for the product as detailed above.

**Name and address of technical documentation holder.**

Signed:  Print: Steven Bulloss: Operations Director Year that CE was first applied

Signed:  Print: Lettie Lui: Product Manager

Date: **27/07/2012**

**CE 12**



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