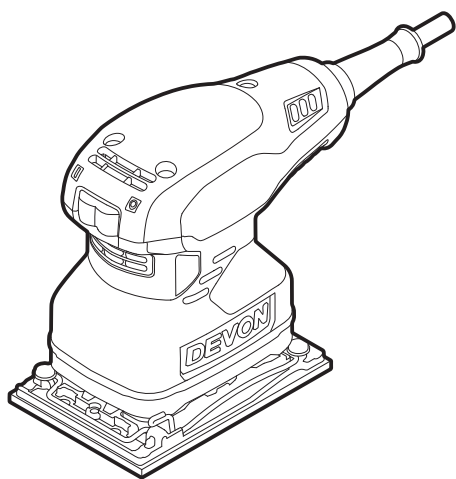


DEVON[®] 大有

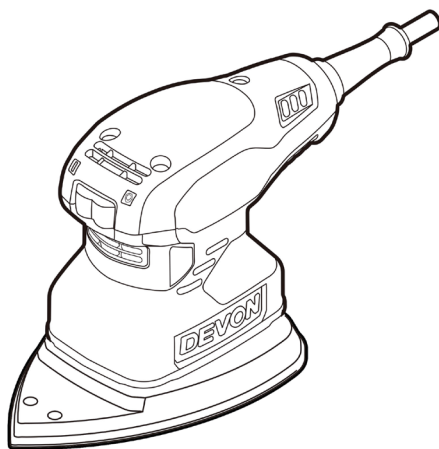
型号： **2231-1-104**（1/6砂光机+指型附件）
2231-1-130（三角砂光机）



型号： **2231-1-104**

中国 平板砂光机

GB Palm Sander



型号： **2231-1-130**

中国 三角砂光机

GB Triangle Sander

各产品外观之间存在差异，请以实物为准

专业电动工具

PROFESSIONAL TOOLS

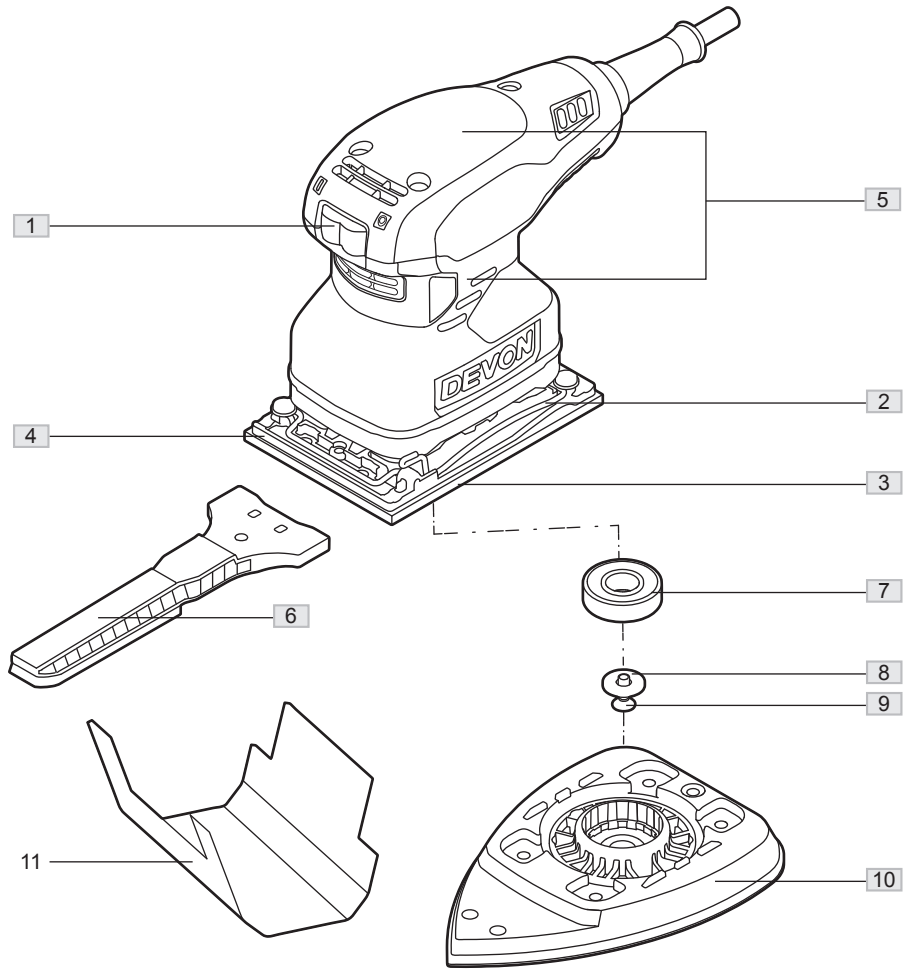
大有工具 “劲”在掌握

砂光机简介



砂光机适合在木材、塑料、填隙料和上了保护漆的表面进行干磨作业。
请您在使用前务必仔细阅读说明书，并严格按照说明书指示使用该砂光机。

1. 操作控制



- 1. 开关
- 2. 砂纸夹
- 3. 软垫
- 4. 底座
- 5. 握持部位
- 6. 指型附件

- 7. 轴承
- 8. 垫片
- 9. 螺钉
- 10. 三角底板
- 11. 指型附件砂纸

2. 工具规格

型 号	2231-1-104（1/6砂光机+指型附件）	2231-1-130（三角砂光机）
额定输入功率（W）	170	170
空载转速（/min）	15000	15000
轨道直径（mm）	1.4	1.4
底板尺寸（mm）	70X104	△
重量（kg）	0.9	0.9
保护等级	□/II	□/II
绝缘等级	E	E

注：1.为求改进，本说明书所载规格可能不预先通告而给予更改。
2.本说明书提供的参数是以220V为依据，若有低于或高于此电压的地区，数据有可能不同。

电动工具通用安全警告

⚠ 警告！ 阅读所有警告和所有说明。不遵照以下警告和说明会导致电击、着火和/或严重伤害。

保存所有警告和说明书以备查阅。

在所有下列的警告中术语“电动工具”指市电驱动(有线)电动工具或电池驱动(无线)电动工具。

1. 工作场地的安全

- 1) 保持工作场地清洁和明亮。混乱和黑暗的场地会引发事故。
- 2) 不要在易爆环境，如有易燃液体、气体或粉尘的环境下操作电动工具。电动工具产生的火花会点燃粉尘或气体。
- 3) 让儿童和旁观者离开后操作电动工具。注意力不集中会使操作者失去对工具的控制。

2. 电气安全

- 1) 电动工具插头必须与插座相配。绝不能以任何方式改装插头。需接地的电动工具不能使用任何转换插头。未经改装的插头和相配的插座将减少电击危险。
- 2) 避免人体接触接地表面，如管道、散热片和冰箱。如果你身体接地会增加电击危险。
- 3) 不得将电动工具暴露在雨中或潮湿环境中。水进入电动工具将增加电击危险。
- 4) 不得滥用电线。绝不能用电线搬运、拉动电动工具或拔出其插头。使电线远离热源、油、锐边或运动部件。受损或缠绕的软线会增加电击危险。
- 5) 当在户外使用电动工具时，使用适合户外使用的外接软线。适合户外使用的软线将减少电击危险。
- 6) 如果在潮湿环境下操作电动工具是不可避免的，应使用剩余电流动作保护器(RCD)。使用RCD可减少电击危险。

3. 人身安全

- 1) 保持警觉，当操作电动工具时关注所从事的操作并保持清醒。当你感到疲倦，或在有药物、酒精或治疗时，不要操作电动工具。在操作电动工具时瞬间的疏忽会导致严重人身伤害。
- 2) 使用个人防护装置。始终佩戴护目镜。安全装置，诸如适当条件下使用防尘面具、

防滑安全鞋、安全帽、听力防护等装置能减少人身伤害。

- 3) 防止意外起动。确保开关在连接电源和/或电池盒、拿起或搬运工具时处于关断位置。手指放在已接通电源的开关上或开关处于接通时插入插头可能会导致危险。
- 4) 在电动工具接通之前，拿掉所有调节钥匙或扳手。遗留在电动工具旋转零件上的扳手或钥匙会导致人身伤害。
- 5) 手不要伸展得太长。时刻注意立足点和身体平衡。这样在意外情况下能很好地控制电动工具。
- 6) 着装适当。不要穿宽松衣服或佩戴饰品。让衣服手套和头发远离运动部件。宽松衣服、佩饰或长发可能会卷入运动部件。
- 7) 如果提供了与排屑、集尘设备连接用的装置，要确保他们连接完好且使用得当。使用这些装置可减少碎屑引起的危险。

4. 电动工具使用和注意事项

- 1) 不要滥用电动工具，根据用途使用适当的电动工具。选用适当设计的电动工具会使你工作更有效、更安全。
- 2) 如果开关不能接通或关断工具电源，则不能使用该电动工具。不能用开关来控制的电动工具是危险的且必须进行修理。
- 3) 在进行任何调节、更换附件或贮存电动工具之前，必须从电源上拔掉插头和/或使电池盒与工具脱开。这种防护性措施将减少工具意外启动的危险。
- 4) 将闲置不用的电动工具贮存在儿童所及范围之外，并且不要让不熟悉电动工具或对这些说明不了解的人操作电动工具。电动工具在未经培训的用户手中是危险的。
- 5) 保养电动工具。检查运动件是否调整到位或卡住、检查零件破损情况和影响电动工具运行的其他条件。如有损坏，电动工具应在使用前修理好。许多事故由维护不良的电动工具引发。
- 6) 保持切削刀具锋利和清洁。保养良好的有锋利切削刃的刀具不易卡住而且容易控制。

- 7) 按照使用说明书，考虑作业条件和进行的作业来使用电动工具、附件和工具的刀头等。将电动工具用于那些与其用途不符的操作可能会导致危险。


5. 维修


将你的电动工具送交专业维修人员，使用同样的备件进行修理。这样将确保所维修的电动工具的安全性。


平板砂光机使用注意事项


1. 工具的电线确保放在机身后面。
2. 工件请用夹具或台钳卡紧。
3. 请勿随意在机壳任何位置钻孔，以防漏电。
4. 工作场所必需保持清洁。不同的工作尘经过混合后容易产生化学反应，十分危险。轻金属尘容易着火或引起爆炸。
5. 勿使用电线已经损坏的电动工具。如果电源电线在工作中受损，千万不可触摸损坏的电线，并马上拔出插头。损坏的电线会提高使用者触电的危险。
6. 连续使用时要使用防护耳罩。
7. 将手远离旋转部件。
8. 工作时请握持住工具，不可脱手放开正在转动的工具，握持住工具后方可操作。
9. 勿加工含石棉之材料。石棉可能致癌。
10. 切勿将机器交给儿童操作。
11. 使用前请务必确保垫片上无裂痕或破损。裂痕或破损可能导致人身伤害。
12. 本工具无防水设计，故不可在有水的环境中使用。
13. 本工具在操作中，请勿清除粉屑。
14. 工具需夹持或粘贴上砂纸后方可工作。


符号	含义
	阅读说明书。
	警告标记。
	双重绝缘。
	危险范围！手掌，手臂和手指头必须尽可能远离这个范围。

- 


请佩戴护目镜。
- 

佩戴耳罩。工作噪音会损坏听力。
- 

请佩戴防尘面具。
- 

佩戴工作手套。
- 

不要丢入垃圾桶。

- 

砂光机工作时产生的粉尘可能含有致癌或对人体有害的化学物质。例如：


 - 油漆中含的铅。
 - 砷和铬与木材起反应后也会产生有毒物质。

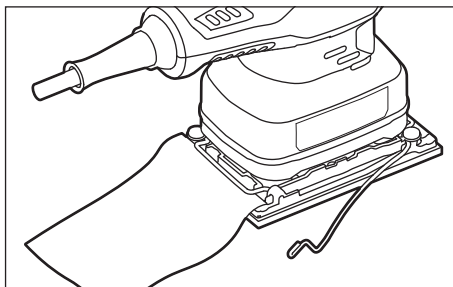
为了减少这些有毒的化妆物质对人体的伤害，要尽量保证在通风的环境下工作，并且工作时配戴合格的安全保护装置。

配备

暂不涉及
在某些国家或某些特殊的机型，其所提供的配备，可能与以上所给的资料稍有出入。

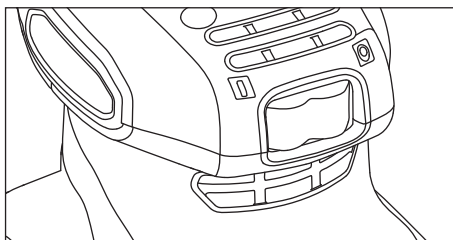
操作说明

1. 检查供电电压须与铭牌数据相符！
 2. 夹持砂纸
-  夹持（贴）或拆卸砂纸之前，请务必确认工具处于关机或断电状态。
- 松开砂纸夹，将砂纸（预先折弯可以更好的帖服底板）一端插入夹紧件内，使砂纸的边缘与底板相平齐，到位后将砂纸夹恢复到原先的槽位即可完成砂纸得夹持。
- 注意：夹持好后检查夹持状况，确保夹具将砂纸夹紧并保持砂纸均匀受力，否则，会导致砂纸松弛和滑脱致使研磨不平。
- 以上述相反动作即可拆卸。



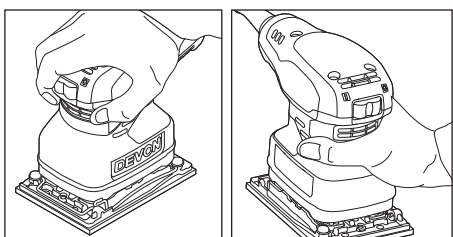
3. 开关操作

启动器具，按压开关使其处于“I”的位置，停止则按压开关使其处于“O”的位置。



4. 握持工具

该平板砂光机提供更舒适的握持感觉，采用多种握持方式来适应和满足更多用户。



5. 选择砂纸

根据物料和需要的研磨效果，选择合适的砂纸：

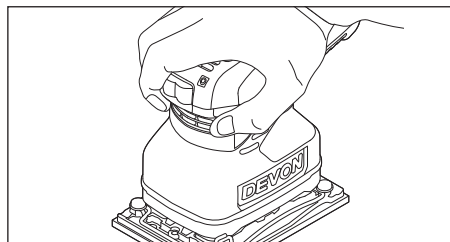
粒 度	类 型
60或以下	非常粗
80-100	粗
120-150	中
180-220	细
240或以上	精细

实际应用

1. 操作

请握持工具，启动已装好砂纸的器具，缓慢地将器具放在加工件的表面进行砂磨；注意不要用过大的力压在器具上，过分的压力将会损坏砂纸并缩短器具寿命；整个砂磨过程请保持底板与工件表面的平齐。

注意：握持时尽量避免用手堵住电机的进风口。




工具维护保养



注意：对砂光机进行维修检查之前，必须把插头拔离电源插座。

- 检查安装螺钉。经常检查安装螺钉是否紧固稳妥。螺钉松开极易引起严重事故。
- 定期检查线缆。如发现损伤应立即委托 **DEVON** 授权的维修中心处理。此工具所用电源线为特殊结构，且勿擅自更换电源线，如需更换，请到 **DEVON** 授权的维修中心处理。
- 保持通风槽清洁顺畅。经常清除尘埃、油污，严防杂物入内。
- 更换碳刷。当碳刷磨损到一定长度器具将会停止，一旦发生此情况，应及时更换碳刷，为了保证产品的安全性和可靠性，由经 **DEVON** 授权的维修中心检查和更换碳刷，以防止触电和保证工具长期安全使用。
- 必须由 **DEVON** 授权的维修中心进行维修。只能使用 **DEVON** 的配件、零件。
- 清洁。避免使用造成塑料龟裂损坏的溶剂擦拭塑料零件。建议使用稍微沾湿了肥皂水的柔布。
- 避免工具受到震荡、撞击或油脂影响

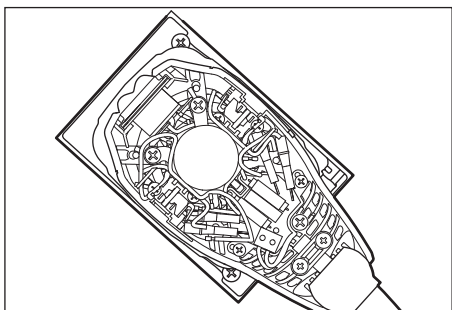
-  请勿让马达淋到水，禁止将整个机身投入水中，以免引起马达故障及触电事故！

1. 更换碳刷

该平板砂光机配备了外部更换碳刷，请使用

DEVON 授权的维修中心提供的碳刷。

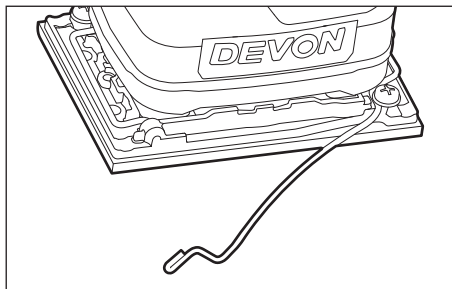
- 1) 将砂光机插头拔离电源插座。
- 2) 用十字螺丝刀起开砂光机电机盖的螺钉。
- 3) 将刷架上的蜗簧拨到一侧
- 4) 横放机器，倒出碳刷，或借助镊子取出即可
- 5) 更换新的碳刷。



- 6) 请按照更换碳刷的相反步骤重新安装新的碳刷。
- 7) 确保所有螺钉都被锁紧，不要过紧。让机器在空载下转动几分钟。

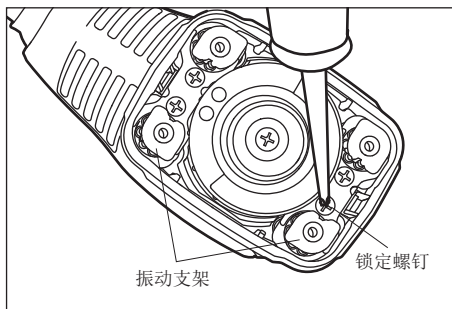
2. 更换砂纸夹

- 1) 将砂光机插头拔离电源插座。
- 2) 将该平板砂光机倒立在桌面上，使其底板面对操作者。
- 3) 用十字螺丝刀起开底板上的螺钉，此时，砂纸夹自然松落。
- 4) 更换砂纸夹。
- 5) 请按照更换砂纸夹的相反步骤重新安装新的砂纸夹。
- 6) 检查并确保所有螺钉都被锁紧，但不要过紧。



3. 更换振动支架

- 1) 将砂光机插头拔离电源插座。
- 2) 将该平板砂光机倒立在桌面上，使其底板面对操作者。
- 3) 用十字螺丝刀起开底板上的螺钉。
- 4) 用十字螺丝刀起开振动支架锁定螺钉。
- 5) 更换振动支架。
- 6) 请按照更换振动支架的相反步骤重新安装新的震动支架。
- 7) 检查并确保所有螺钉都被锁紧，但不要过紧。

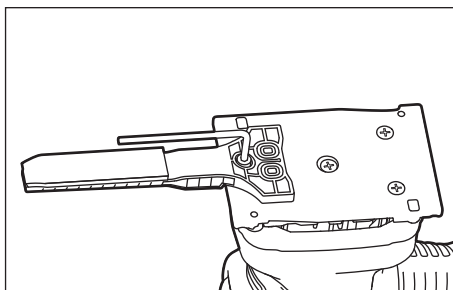
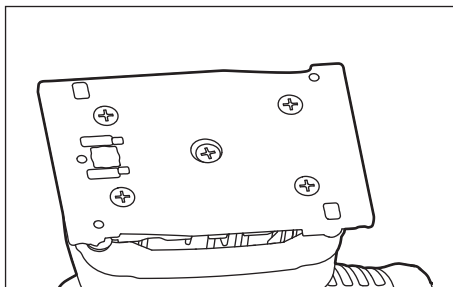


4. 更换定子

- 1) 定子接线时，定子黑线接内侧，定子蓝线接外侧，特别注意：黑色线和蓝色线不能接反，否则会出现火花偏大、转速降低或时转时不转的问题。

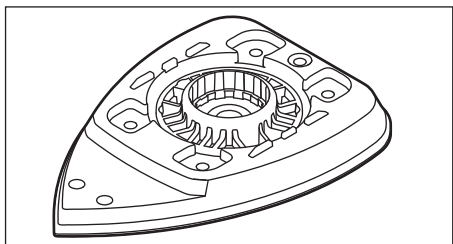
5. 安装及拆卸指型附件

- 1) 将砂光机插头拔离电源插座。
- 2) 将该平板砂光机倒立放置在桌面上，将机器原装的软垫揭开以方便安装指形底板。
- 3) 将指形底板定位孔对准底板的定位凸台，同时使用附件中的内六角扳手拧紧。
- 4) 检查并确保螺钉被锁紧。
- 5) 按照以上相反步骤即为拆卸指形底板放置。



6. 安装及拆卸三角附件

- 1) 将砂光机插头拔离电源插座。
- 2) 将该平板砂光机倒立放置在桌面上，将机器原装的矩形底板拆除。
- 3) 将轴承放置在风叶上，装配垫片以及螺钉。
- 4) 检查并确保螺钉被锁紧。
- 5) 按照以上相反步骤即为拆卸指形底板



环境保护



1. **DEVON**®的包装可以百分之百进行回收再生处理。
2. 报废的电动工具和附件中含有大量有价值的原材料及合成材料，同样可以进行再生回收。
3. 磨削或切割时所产生的粉尘中会包含有害物质因而不应作为普通垃圾倾倒，而应交给特殊垃圾回收站处理。

服务

1. 工具需要保修时，请自行送至当地特约维修中心，并提供有效保修卡及购机发票原件，遗失保修卡恕不补发。
2. 由于正常磨损、过载或不当使用而导致的损坏，不在保证范围内。

附：一般故障及排除方法

故障	原因	排除方法
1. 接电后电机不运转	1. 电源断了	1. 修复电源
	2. 接头松落	2. 检查所有接头
	3. 开关接触不良或不动作	3. 修理或更换开关
	4. 电刷与换向器表面不接触	4. 更换碳刷
2. 接电后有异响且不旋转或转得很慢	1. 开关触点烧坏	1. 修理或更换开关
	2. 机械部分卡住	2. 检查机械部分
3. 换向器上产生环火或较大火花	1. 电枢短路	1. 修复电枢
	2. 电刷和换向器接触不良	2. 更换碳刷
	3. 换向器表面不光洁	3. 清除杂物，使换向器表面光洁
	4. 定子线可能接反	4. 请调整接线
4. 转速很慢	1. 轴承失效	1. 更换轴承

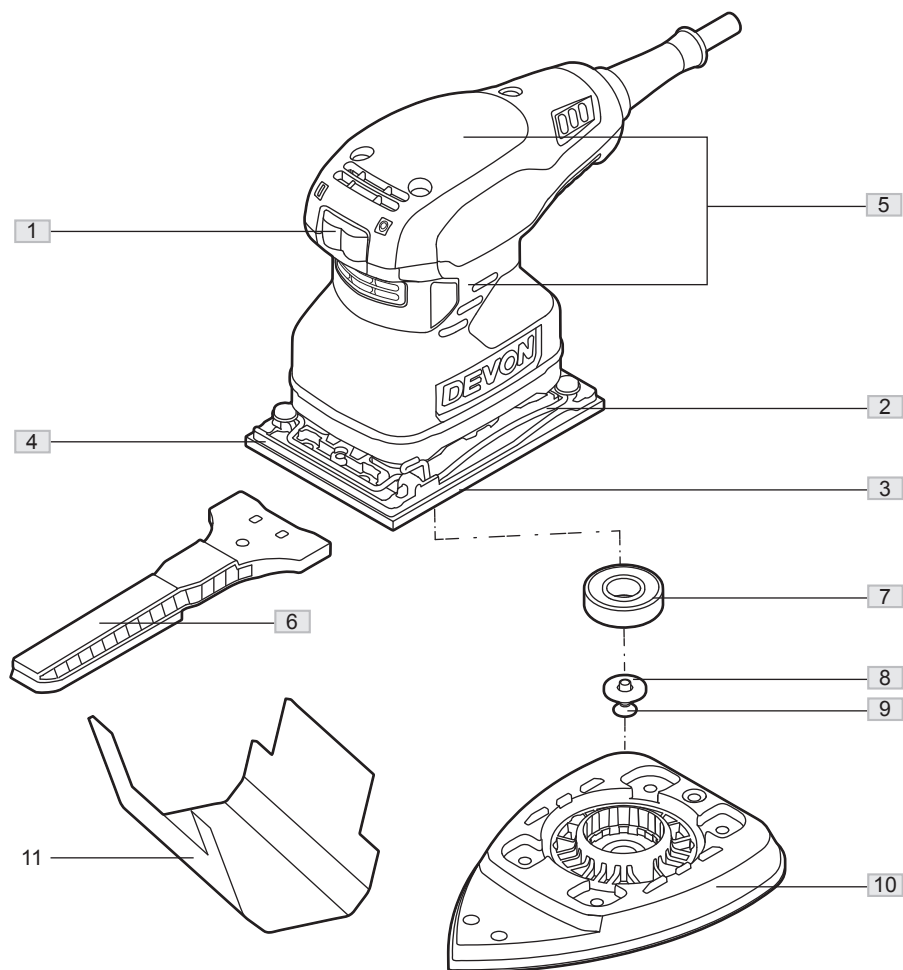
DESCRIPTION OF THE TOOL

OPERATING CONTROL



The sander is designed for dry sanding on timber, plastic, and the surfaces of lacquer. Read, understand and follow all safety rules and instructions before using this tool.

1. MAIN PARTS



1. Switch
2. Paper clamp
3. Soft pad
4. Bottom support
5. Handle
6. Type refers to the attachment

7. Bearing
8. Gasket
9. Screw
10. The triangle plate
11. Sandpaper for finger attachment

2. TOOL SPECIFICATIONS

Model	2231-1-104 (The 1/6 Sander+Finger attachment)	2231-1-130 (The triangle sander)
Rated input power (W)	170	170
Speed (/min)	15000	15000
Orbit diameter (mm)	1.4	1.4
Sanding base (mm)	70X104	△
Weight (kg)	0.9	0.9
Protected grade	□/II	□/II
Insulated grade	E	E

NOTE1: Due to **DEVON**'s continuing program of development, the specifications herein are subject of change without prior notice.

NOTE2: The values given are valid for nominal voltages [U] of 220 V. For lower or higher voltages and models for specific countries, these values can vary.

GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING: 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.

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.

■ WORK AREA SAFETY

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

■ ELECTRICAL SAFETY

1. **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 risk of electric shock.
2. **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.
3. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
4. **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.
5. **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.

6. **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of an GFCI reduces the risk of electric shock.

■ PERSONAL SAFETY

1. **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.
2. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
3. **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 power tools that have the switch on invites accidents.
4. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
5. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
6. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
7. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
8. **Do not let familiarity gained from frequent use of tools allow you to become**

complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

■ POWER TOOL USE AND CARE

1. **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 the rate for which it was designed.
2. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. **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.
5. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. **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.
8. **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

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■ Service

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.

ADDITIONAL SAFETY RULES FOR SANDER

1. Place the cord in rear of the tool.
2. Clamp work piece securely with clamping devices or a vise.
3. Never drill any hole in the housing of the tool, which will result in electric shock.
4. Keep your workplace clean. Blends of materials are particularly dangerous. Dust from light alloys can burn or explode.
5. Do not use the power tool with a damaged cord. Do not touch the damaged cord and pull the plug from the outlet when the cord is damaged while working. Damaged cords increase the risk of an electric shock.
6. Wear ear protection in continuous working time.
7. Keep your hands far away from the rotating components.
8. Hold the tool firmly before turning on the tool, and hold it securely still in operation.
9. Do not work materials containing asbestos. Asbestos is considered carcinogenic.
10. Never allow children to use the machine.
11. Make sure if the sanding sheet or the base plate is crackled or damaged. Crackled or damaged base plate would result in personal injury.
12. The tool hasn't waterproof feature, and it is not suitable for wet sanding.
13. Never clean any dust or dirt during operation.
14. The tool can be operated when the sanding sheet is attached and clamp securely.

SYMBOL



Read the instruction



Warning



Double Insulation



Danger area! Keep hands, fingers or arms away from this area.



Wear safety goggles.



Wear ear protectors. Exposure to noise can cause hearing loss.



Wear a dust respirator.



Wear protective gloves.



Don't drop into the trash



WARNING: Some dust created by power Cutting contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints
- arsenics and chromium from chemically reacted lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment.

STANDARD ACCESSORIES

N/A

Be sure to check the accessories as it is subject to change by areas and models.

OPERATION

1. POWER SUPPLY

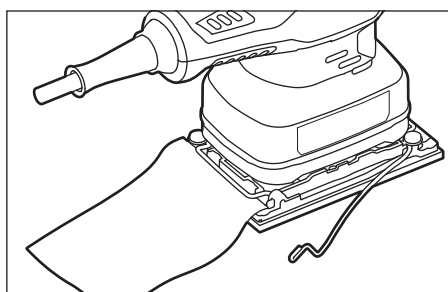
The power tool supply must match the nameplate date.

2. ATTACHING SANDING SHEETS

⚠ WARNING: Always disconnect the machine from the power supply before attaching or remove sanding sheets.

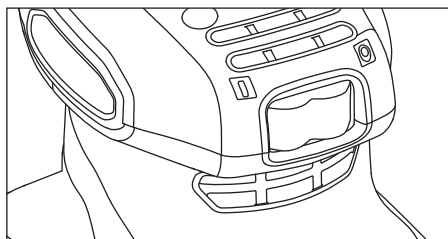
Locate the clamps on either side of the machine, loosen the clamp levers, position one end of the sanding sheet under the clamp and secure the clamping lever. The sanding sheet should be pulled taut and follow the contours of the sander base. Ensure alignment of dust extraction holes on the on the sander soleplate with the holes in the sanding sheet. Position the other end of the sanding sheet under the clamp and secure the clamp lever.

Note: When the sanding sheet is attached, check and make sure the sanding paper is clamped properly and securely, do follow this will cause uneven surface of work piece.



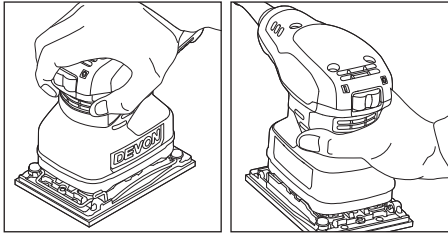
3. SWITCHING ON AND OFF

To switch the sander on by depressing the trigger switch in the position "I", to turn off the sander, depress the trigger switch in the position "O".



4. GRASP THE SANDER

The sander can be grasped in two methods to satisfy different operators for more comfortable



5. SELECTING THE SANDING SHEET

Depending on the material to be worked and the required rate of material removal, different sanding sheets are available:

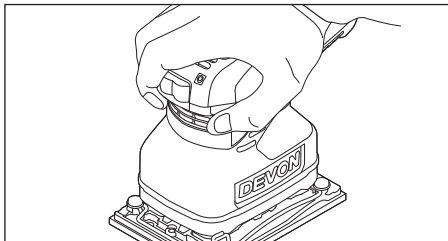
Grit	Type
60 or less	Very Coarse
80-100	Coarse
120-150	Medium
180-220	Fine
240 or more	Very Fine

APPLICATION

OPERATION

Switch the sander on whilst it is resting on the work piece. Take care to hold the whole surface of the platen on the work piece. Move the sander over the surface of the work in a circular motion with an even, moderate pressure. Extreme pressure will reduce the tool lift.

Note: Do not block the wind intake of the motor with hand.



TOOL MAINTENANCE



WARNING: Before any work on the machine itself, unplug the power supply.

- Inspect bolts periodically. If the bolts loosen, tighten them immediately, or will result in serious accident.
- Inspect tool cords periodically. If damaged, have repaired at your nearest Authorized **DEVON** Service Center. This tool was used with the power cord as a particular structure, don't replace the power cord without authorization, such as replacement, please go to the Authorized **DEVON** Service Center.
- Keep the vents clean. Clean all parts of the tool, clean dust periodically. To prevent debris from entry.
- Replace the carbon brush when the carbon brush is worn out in certain length and motor stops running. All maintenance should be carried out by Authorized Service Center, and only use identical **DEVON** repair parts.
- All service **MUST** only be performed by Authorized **DEVON** Service Center. **ALWAYS** use only **DEVON** accessories that are recommended for this tool.
- Cleaning. Avoid the use of plastic cracks caused by damage to the solvent. Use clean cloths and mild soap to remove dirt, dust, etc.
- Avoid the tool vibration or impact, and keep it from oil and grease.

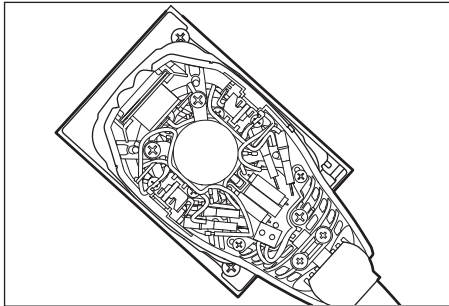
⚠ WARNING: Do not allow the water entering the motor and the tool full immersed in the ware, which will result in motor malfunction and electric shock.

1. REPLACEMENT OF CARBON BRUSH

The sander is built in replaceable brush, please use the brush from **DEVON** authorized service center.

- 1) Unplug the sander.
- 2) Remove the screws in the motor cap of the sander by Philip screwdriver.
- 3) Depress the clasp to release the brush using a slotted screwdriver.

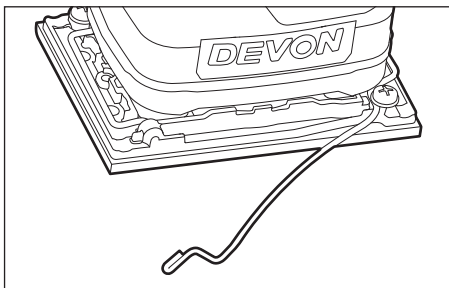
- 4) Remove brush assemblies, and replace a new one.
- 5) Reassemble by reversing the steps listed above.



- 6) Tighten all brush caps securely. Do not over tighten. The tool should be allowed to "RUN IN" for several minutes before use, to seat the new brushes properly.

2. REPLACEMENT OF PAPER CLAMP

- 1) Unplug the sander.
- 2) Set the sander upside down on the table, make the sub base face the operator.
- 3) Remove the volute springs on Brush holder
- 4) Put sander horizontally and use tweezers to remove the carbon brushes
- 5) Reassemble by reversing the steps listed above.
- 6) Tighten all screws in the base securely. Do not over tighten.

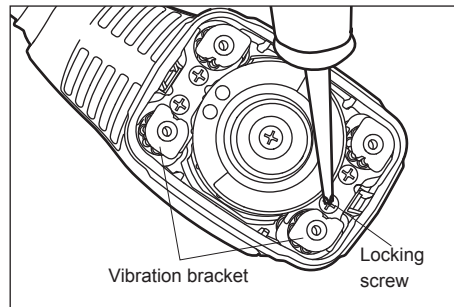


3. REPLACEMENT OF VIBRATION BRACKET

- 1) Unplug the sander.
- 2) Set the sander upside down on the table,

make the sub base face the operator.

- 3) Remove the screws on the base using Philip screwdriver.
- 4) Remove the bracket locking screws by Philip screwdriver.
- 5) Replace the vibration bracket.
- 6) Reassemble by reversing the steps listed above.
- 7) Tighten all the screws in the base securely. Do not over tighten.

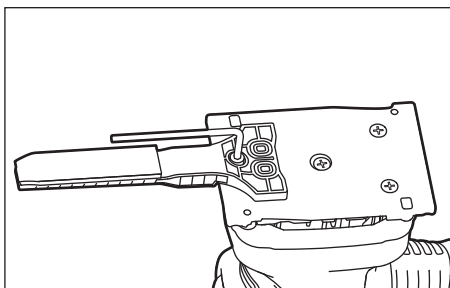
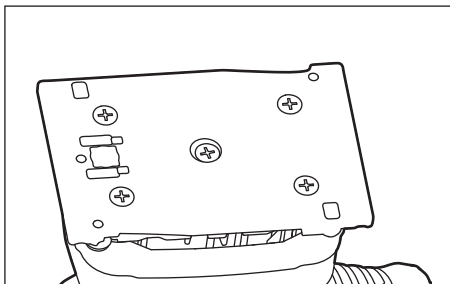


4. REPLACEMENT OF STATOR

Connect the stator, the black wire to the inside and white wire to the outside. Be careful the black and blue lines should never be connected reversely, otherwise, the problems could appear, such as, flourishing spark, lower rotation speed, or brokenly rotation.

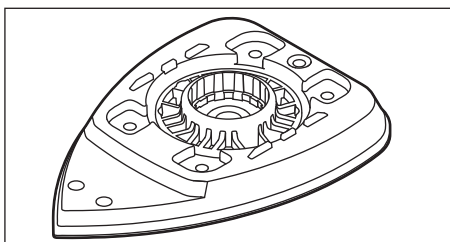
5. Installation and disassembly type refers to the attachment

- 1) The sanding machine plug off the power socket.
- 2) Place the flat sanding machine upside down on the table, the machine original soft mat uncovered the finger floor for easy installation.
- 3) Positioning hole on the bottom of the base are socially shaped positioning convex platform, at the same time using the attached hex wrench tight.
- 4) Check and make sure the screws are locked.
- 5) According to the above reverse steps to remove the finger plate.



6. Installation and removal of triangular attachment

- 1) The sanding machine plug off the power socket.
- 2) Place the flat sanding machine upside down on the table, remove the rectangular slab between original machine.
- 3) Place the bearing on the blades, assembly gaskets and screws.
- 4) Check and make sure the screws are locked.
- 5) According to the above reverse steps to remove the finger plate.



ENVIRONMENT PROTECTION



1. Tool, accessories and packaging should be sorted for environment-friendly recycling.
2. Power tools and accessories at the end of their service life still contain large amounts of valuable raw materials and plastics which can likewise be fed back into a recycling process.
3. Some dust created by working contains harmful chemicals must be collected by special garbage re- cycle site.

SERVICE

1. In case of guarantee, repair or purchase of replacement parts, always contact the qualified service center. And supplied with the efficient service card and invoice.
2. It is without the scope of guarantee when the tool was normal wear, overload or improper use of damage.

Problem Shooting

Problems	Reasons	Ways to Solve The Problems
1. The motor stops running	1. Unconnected to power source	1. Connect to power source
	2. Plugs not fully connect	2. Check all plugs
	3. Switch out of work	3. Replace or repair the switch
	4.Brushes not touch the commutator	4. Replace the brushes with two new ones
2. Running slowly (Not running) with the noise at the beginning of power turn-on	1. Switch out of work	1. Replace or repair the switch
	2. Mechanical trouble	2. Check mechanical parts
3. Commutator sparkle	1. Armature short circuit	1. Repair the armature
	2. Poor connection between the brush and the commutator	2. Replace it with a new one
	3. Commutator surface not smooth	3. Clean the commutator surface
	4. stator wires are connected reversely	4. rewire the stator according the instructions
4. Running slowly	1. Bearing worn out	1. Replace it with a new one

POWER, IN YOUR HANDS

POWER, IN YOUR HANDS

POWER, IN YOUR HANDS

保修卡

Warranty Card

合格证

PRODUCT CERTIFICATION

制造商: 南京德朔实业有限公司

地址: 江苏南京江宁经济技术开发区将军大道159号

销售商: 泉峰(中国)工具销售有限公司

检验员



全国统一售后服务电话

400-828-9076

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保修服务说明:

- 工具需要维修时, 请送至当地大有授权维修中心或寄至泉峰售后服务部, 产品保修期以购机发票/收据原件上的日期起算。
- 仅对存在质量缺陷的产品给与免费维修或免费换新, 其前提是经大有授权维修中心证明其故障是由于材料或制造缺陷所造成的, 并处于保修期内。
- 保修期及保修条款根据工具的类别而定:
 1. 交流工具:
 - 1.1. 整机保修6个月或者转子换向器直径磨损量在0.2毫米以内, 以先到为准。
 2. 直流工具:
 - 2.1. 12V产品: 机身保修12个月, 电池、充电器为12个月内包换。
 - 2.2. 14V以上产品: 机身保修6个月, 电池、充电器为6个月内包换。
 3. 光电工具:
 - 3.1. 激光测距仪: 保修24个月。
 - 3.2. 其他光电产品: 保修12个月。
- 保修不包括:
 1. 任何自然磨损以及正常使用时所发生损耗, 如气缸、齿轮、O形圈、转子换向器直径磨损量超过0.2毫米、碳刷、轴承、开关、电子线路板、电源线等。
 2. 由于不遵守操作说明、不正确使用、异常的环境条件、不当的操作条件、过载或缺乏足够的维护和保养所导致的工具故障。
 3. 自行或非大有授权维修点拆修的所导致的工具故障。
 4. 由于使用非原装大有配件而引起的缺陷。
 5. 经过改装或增加部件的工具。
 6. 随机附送的配件或者附件。
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售后服务邮箱: devon-afterservice@chervon.com.cn

售后服务咨询电话: 025-84994857、025-84994858

售后服务地址: 江苏省南京市江宁区将军大道159号，
德朔 泉峰(工具)售后服务部

售后件寄回收件人: 客服1号

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版次：1803

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