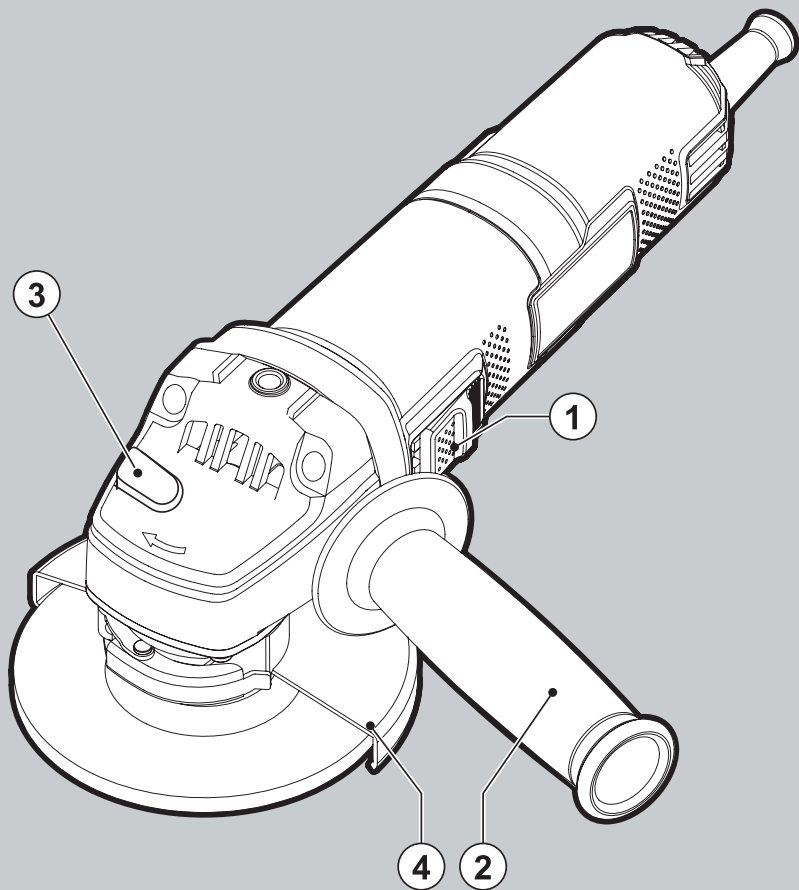


# STANLEY

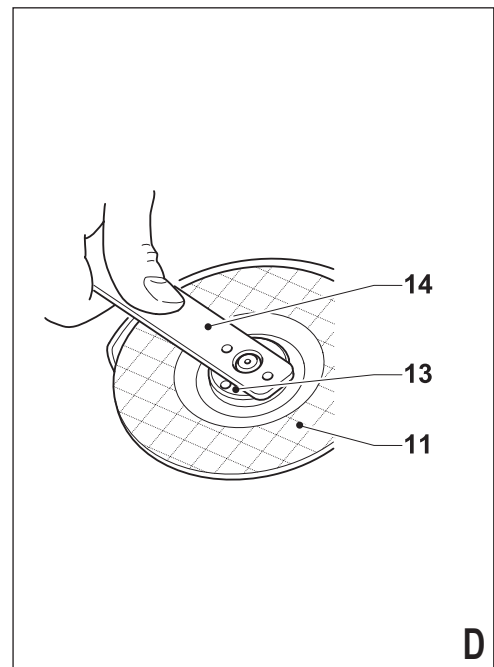
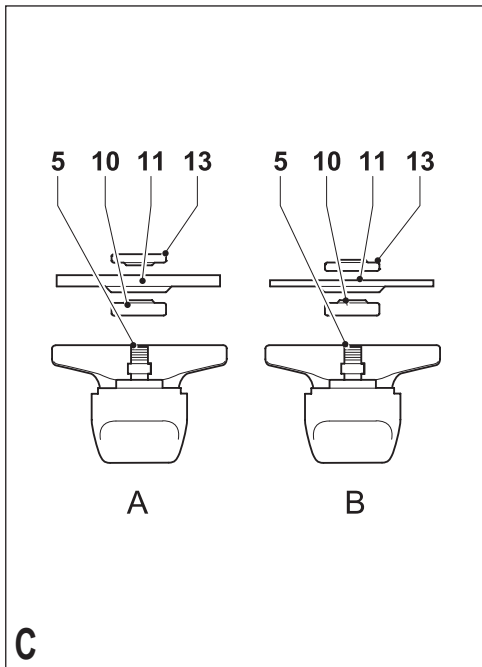
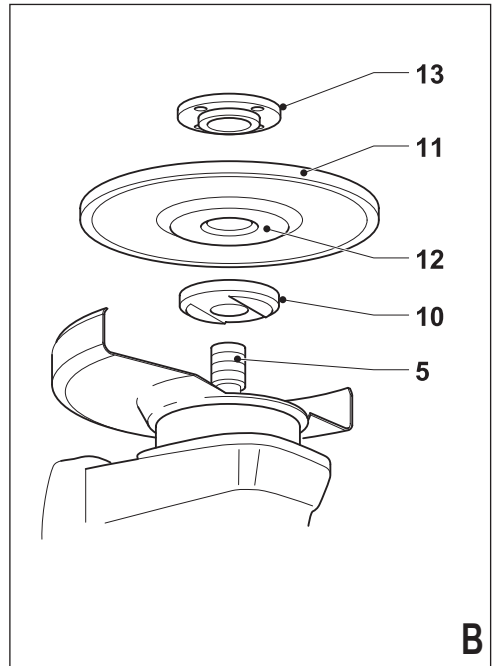
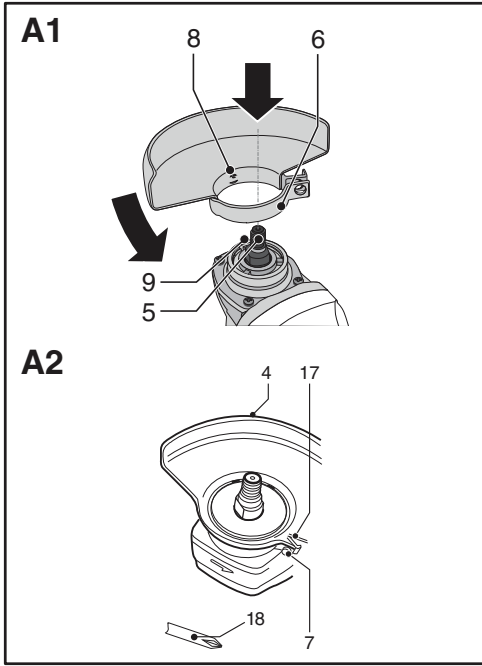
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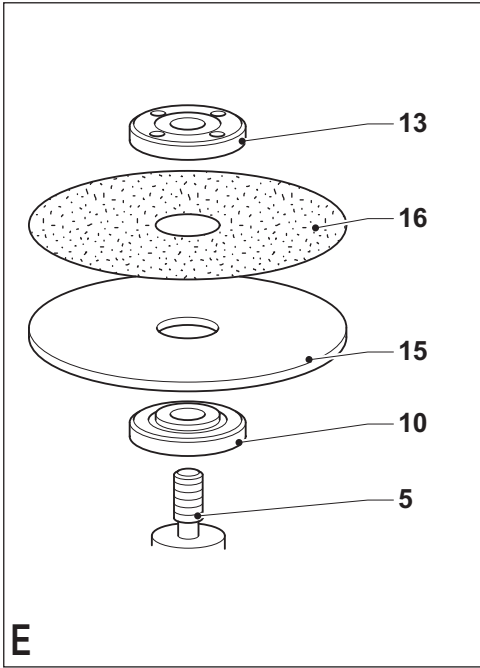


STEL812

English  
简体中文

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**E**

# STEL812

## 100mm 900W SAG

### Technical data

STEL812		
Input voltage	V <sub>ac</sub>	220-240
Power input	W	900
No-load speed	min <sup>-1</sup>	12,000
Disc diameter	mm	100
Disc bore	mm	16
Max disc thickness		
grinding discs	mm	6
cutting discs	mm	3.5
Spindle size		M10
Weight	kg	2.1

### Intended use

Your Stanley angle grinder has been designed for grinding and cutting metal and masonry using the appropriate type of cutting or grinding disc. When fitted with the appropriate guard, this tool is intended for tradesmen and consumer use.

### Safety instructions

#### General power tool safety warnings



**Warning! Read all safety warnings and all instructions.** Failure to follow the warnings and 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 all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

#### 1. Work area safety

- Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- 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.
- Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

#### 2. Electrical safety

- 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.
- 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.

- Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- 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.
- 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.
- 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. Personal safety

- 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.
- Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- 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.
- 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.
- Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- 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.
- 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.

#### 4. 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 the rate for which it was designed.
- b. **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.
- c. **Disconnect the plug from the power source and/or the battery pack 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.
- 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 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. 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.

#### Additional power tool safety warnings



**Warning!** Additional safety warnings for grinding, sanding, wire brushing, polishing or abrasive cutting-off operations

- ◆ **This power tool is intended to function as a grinder, sander, wire brush, polisher or cut-off 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.
- ◆ **Operations for which the power tool was not designed may create a hazard and cause personal injury.**
- ◆ **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.
- ◆ **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.
- ◆ **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.
- ◆ **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.
- ◆ **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 and run the power tool at maximum no-load speed for one minute.** Damaged accessories will normally break apart during this test time.
- ◆ **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 filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- ◆ **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.
- ◆ **Hold 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 shock the operator.
- ◆ **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.

- ◆ **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.
- ◆ **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.
- ◆ **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.
- ◆ **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
- ◆ **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

**Note:** The above warning does not apply for power tools specifically designed for use with a liquid system.

### Kickback and related warnings

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.

- ◆ **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.
- ◆ **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
- ◆ **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.

- ◆ **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.
- ◆ **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 grinding and abrasive cutting-off operations

- ◆ **Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel.** Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.
- ◆ **The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator.** The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.
- ◆ **Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
- ◆ **Always use undamaged wheel flanges that are of correct size and shape for your selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.
- ◆ **Do not use worn down wheels from larger power tools.** Wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.

### Additional safety warnings specific for abrasive cutting-off operations

- ◆ **Do not "jam" the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** Over stressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.
- ◆ **Do not position your body in line with and behind the rotating wheel.** When the wheel, at the point of operation, is moving away from your body, the possible kickback may propel the spinning wheel and the power tool directly at you.
- ◆ **When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of wheel binding.

- ◆ **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut.** The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
- ◆ **Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.
- ◆ **Use extra caution when making a "pocket cut" into existing walls or other blind areas.** The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.

### Safety warnings specific for sanding operations

- ◆ **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.

### Safety warnings specific for polishing operations

- ◆ **Do not allow any loose portion of the polishing bonnet or its attachment strings to spin freely. Tuck away or trim any loose attachment strings.** Loose and spinning attachment strings can entangle your fingers or snag on the workpiece.

### Safety warnings specific for wire brushing operations

- ◆ **Be aware that wire bristles are thrown by the brush even during ordinary operation. Do not overstress the wires by applying excessive load to the brush.** The wire bristles can easily penetrate light clothing and/or skin.
- ◆ **If the use of a guard is recommended for wire brushing, do not allow any interference of the wire wheel or brush with the guard.** Wire wheel or brush may expand in diameter due to work load and centrifugal forces.

### Safety of others

- ◆ This appliance 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 use of the appliance by a person responsible for their safety.
- ◆ Children should be supervised to ensure that they do not play with the appliance.

### Residual risks.

Additional residual risks may arise when using the tool which may not be included in the enclosed safety warnings. These risks can arise from misuse, prolonged use etc.

Even with the application of the relevant safety regulations and the implementation of safety devices, certain residual risks can not be avoided. These include:

- ◆ **Injuries caused by touching any rotating/moving parts.**
- ◆ **Injuries caused when changing any parts, blades or accessories.**
- ◆ **Injuries caused by prolonged use of a tool. When using any tool for prolonged periods ensure you take regular breaks.**
- ◆ **Impairment of hearing.**
- ◆ **Health hazards caused by breathing dust developed when using your tool (example:- working with wood, especially oak, beech and MDF.)**

### Labels on tool

The following pictograms are shown on the tool:



**Warning!** To reduce the risk of injury, the user must read the instruction manual.



Wear safety glasses or goggles when operating this tool.



Wear ear protection when operating this tool.

### Electrical safety



This tool is double insulated; therefore no earth wire is required. Always check that the power supply corresponds to the voltage on the rating plate.

- ◆ If the supply cord is damaged, it must be replaced by the manufacturer or an authorised Black & Decker Service Centre in order to avoid a hazard.

## Features

This tool includes some or all of the following features.

1. On/off switch
2. Side handle
3. Spindle lock
4. Guard

## Assembly

**Warning!** Before assembly, make sure that the tool is switched off and unplugged.

### Fitting and removing the guard (fig. A)

The tool is supplied with a guard intended for grinding purposes only. If the unit is intended to perform cutting off operations, a guard specific for this operation must be fitted. A suitable guard for cutting off operations part numbers 1004484-06 for STEL812 are available and can be obtained from Stanley service centres.

#### Fitting

- ◆ Place the angle grinder on a flat and steady surface, spindle (5) up (fig. A1)
- ◆ Align the 3 lugs (8) with the 3 slots (9) in gearcase cover.
- ◆ Press the guard (4) down and turn it in the direction of the arrow until it is in the working position providing maximum protection to the user (fig. A2)
- ◆ Insert the bolt (7) to the holes on the bracket. Screw the nut (17) on the thread of the bolt. Use crosshead screwdriver (18) (not supply) to tighten the bolt and nut.



Do not operate the grinder with a loose guard.

#### Removing

- ◆ Follow the procedure above in reverse order.

### Fitting the side handle

- ◆ Screw the side handle (2) into one of the mounting holes in the tool.

**Warning!** Always use the side handle.

### Fitting and removing grinding or cutting discs (fig. B - D)

Always use the correct type of disc for your application. Always use discs with the correct diameter and bore size (see technical data).

#### Fitting

- ◆ Fit the guard as described above.
- ◆ Place the inner flange (10) onto the spindle (5) as shown (fig. B). Make sure that the flange is correctly located on the flat sides of the spindle.

- ◆ Place the disc (11) onto the spindle (5) as shown (fig. B). If the disc has a raised centre (12), make sure that the raised centre faces the inner flange.
- ◆ Make sure that the disc locates correctly on the inner flange.
- ◆ Place the outer flange (13) onto the spindle. When fitting a grinding disc, the raised centre on the outer flange must face towards the disc (A in fig. C). When fitting a cutting disc, the raised centre on the outer flange must face away from the disc (B in fig. C).
- ◆ Keep the spindle lock (3) depressed and tighten the outer flange using the two-pin spanner (14) (fig. D).

#### Removing

- ◆ Keep the spindle lock (3) depressed and loosen the outer flange (13) using the two-pin spanner (14) (fig. D).
- ◆ Remove the outer flange (13) and the disc (11).

### Fitting and removing sanding discs (fig. D & E)

For sanding, a backing pad is required. The backing pad is available from your Stanley dealer as an accessory.

#### Fitting

- ◆ Place the inner flange (10) onto the spindle (5) as shown (fig. E). Make sure that the flange is correctly located on the flat sides of the spindle.
- ◆ Place the backing pad (15) onto the spindle.
- ◆ Place the sanding disc (16) onto the backing pad.
- ◆ Place the outer flange (13) onto the spindle with the raised centre facing away from the disc.
- ◆ Keep the spindle lock (3) depressed and tighten the outer flange using the two-pin spanner (14) (fig. D). Make sure that the outer flange is fitted correctly and that the disc is clamped tightly.

#### Removing

- ◆ Keep the spindle lock (3) depressed and loosen the outer flange (13) using the two-pin spanner (14) (fig. D).
- ◆ Remove the outer flange (13), the sanding disc (16) and the backing pad (15).

## Use

**Warning!** Let the tool work at its own pace. Do not overload.

- ◆ Carefully guide the cable in order to avoid accidentally cutting it.
- ◆ Be prepared for a stream of sparks when the grinding or cutting disc touches the workpiece.
- ◆ Always position the tool in such a way that the guard provides optimum protection from the grinding or cutting disc.



## Switching on and off

- ◆ To switch on, slide the on/off switch (1) forward then press it in. Note that the tool will continue running when you release the switch.
- ◆ To switch off, press the rear part of the on/off switch.

**Warning!** Do not switch the tool off while under load.

## Hints for optimum use

- ◆ Firmly hold the tool with one hand around the side handle and the other hand around the main handle.
- ◆ When grinding, always maintain an angle of approx. 15° between the disc and the workpiece surface.

## Maintenance

Your Stanley corded/cordless appliance/tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

**Warning!** Before performing any maintenance on corded/cordless power tools:

- ◆ Switch off and unplug the appliance/tool.
- ◆ Or switch off and remove the battery from the appliance/tool if the appliance/tool has a separate battery pack.
- ◆ Or run the battery down completely if it is integral and then switch off.
- ◆ Unplug the charger before cleaning it. Your charger does not require any maintenance apart from regular cleaning.
- ◆ Regularly clean the ventilation slots in your appliance/tool/charger using a soft brush or dry cloth.
- ◆ Regularly clean the motor housing using a damp cloth. Do not use any abrasive or solvent-based cleaner.
- ◆ Regularly open the chuck and tap it to remove any dust from the interior (when fitted).

## Service Information

Stanley offers a full network of company-owned and authorized service locations throughout Asia. All Stanley Service Centers are staffed with trained personnel to provide customers with efficient and reliable power tool service. Whether you need technical advice, repair, or genuine factory replacement parts, contact the Stanley location nearest to you.

## Notes

- Stanley's policy is one of continuous improvement to our products and, as such, we reserve the right to change product specifications without prior notice.
- Standard equipment and accessories may vary by country.
- Product specifications may differ by country.
- Complete product range may not be available in all countries. Contact your local Stanley dealers for range availability.

**STEL812****100毫米 900瓦 SAG角向磨光机****技术参数**

		STEL812
输入电压	伏特 (V) (单相)	220
输入功率	瓦特	900
额定转速	转/分	12,000
轮片直径	毫米	100
轮片孔径	毫米	16
最大轮片厚度		
磨轮尺寸	毫米	6
心轴尺寸		M10
重量	千克	2.1

**设计用途**

本史丹利角向磨光机的设计用途是，采用合适类型的砂轮打磨金属或砖石结构。

配备适当防护装置的情况下，本工具可供专业人员及普通消费者使用。

**安全须知****电动工具安全通则**

**警告！阅读说明。**没有按照以下列举的说明而使用或操作将导致触电、着火和/或严重伤害。

**请妥善保管所有警示与须知，以备将来参考使用。**在所有以下列举的警告中术语“电动工具”指用电动机驱动（有线）电动工具或电池驱动（无线）电动工具。

**1. 工作场地**

- 保持工作场地清洁和明亮。**混乱和黑暗的场地会引发事故。
- 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。
- 让儿童和旁观者离开后操纵电动工具。**分心会使你放松控制。

**2. 电气安全**

- 电动工具插头必须与插座相配。**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触电危险。
- 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触电危险。

- 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触电危险。
- 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。**让电动工具远离热、油、锐边或运动部件。受损或缠绕的电线会增加触电危险。
- 当在户外使用电动工具时，使用适合户外使用的外接电线。**适合户外使用的电线将减少触电危险。
- 如果在潮湿的环境中使用电动工具，请使用漏电保护装置（RCD）。**使用此装置可降低触电危险。

**3. 人身安全**

- 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。**切勿在有疲倦、药物、酒精或治疗反应下操作电动工具。在操作电动工具期间精力分散会导致严重人身伤害。
  - 使用安全装置。始终配戴护目镜。**安全装置，诸如适当条件下的防尘面具、防滑安全鞋、安全帽、听力防护等装置能减少人身伤害。
  - 避免突然起动。**确保开关在插入插头时处于关闭位置。手指放在已接通电源的开关上或开关处于接通时插入头可能会导致危险。
  - 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。
  - 手不要伸得太长。**时刻注意脚下和身体平衡。这样在意外情况下能很好地控制电动工具。
  - 着装适当。不要穿宽松衣服或佩带饰品。**让你的头发、衣服和袖子远离运动部件。宽松衣服、佩饰或长发可能会卷入运动部件。
  - 如果提供了与排屑装置、集尘设备连接用的装置，则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**
- 不要滥用电动工具，根据用途使用适当的电动工具。**选用适当的设计额值的电动工具会使你工作有效、更安全。
  - 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。

- c. 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 / 或将电池盒脱开电源。这种防护性措施将减少电动工具突然起动的危险。
- d. 将闲置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。电动工具在未经训练的用戶手中是危险的。
- e. 保养电动工具。检查运动部件的安装偏差或卡住、零件破损情况和影响电动工具运行的其它条件。如有损坏，电动工具必须在使用前修好。许多事故由维护不良的电动工具引发。
- f. 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。
- g. 按照使用说明书以及打算使用的电动工具的特殊类型要求的方式，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。电动工具用作那些与要求不符的操作可能会导致危险情况。

## 5. 维修

- a. 将你的电动工具送交专业维修人员，必须使用同样的备件进行更换。这样确保所维修的电动工具的安全性。

## 所有操作的使用说明书

 **警告！** 砂磨切割操作的安全通则：

- ◆ 该电动工具是用于实现砂轮机功能的。阅读随该电动工具提供的所有安全警告、说明、图解和规定。不了解一下所列所有说明将导致电击、着火和 / 或严重伤害。
- ◆ 不推荐用该电动工具进行诸如砂光、刷光、抛光或切割等操作。电动工具不按指定的功能去操作，可能会发生危险和引起人身伤害。
- ◆ 不使用的非工具制造商推荐和专门设计的附件。否则该附件可能被装到你的电动工具上，而它不能保证安全操作。
- ◆ 附件的额定速度必须至少等于电动工具上标出的最大速度。附件以比其额定速度大的速度运转会发生爆裂和飞溅。
- ◆ 附件的外径和厚度必须在电动工具额定能力范围之内。不正确的附件尺寸不能得到充分防护或控制。
- ◆ 砂轮、法兰盘、靠背垫或任何其他附件的轴孔尺寸必须适合于安装到电动工具的主轴上。带轴孔的，与电动工具安装件不配的附件将失稳，过度振动并会引起失控。
- ◆ 不要使用损坏的附件。在每次使用前要检查附件，例如砂轮是否有碎片和裂缝，靠背垫是否有的裂缝、撕裂或过度磨损，钢丝刷是否松动或金属丝是否断裂。如果电动工具或附件跌落，检查是否有损坏或安装没有损坏的附件。检查和安装附件后，让自己和旁观者的位置远离旋转附件的平面，并以电动工具最大空载速度运行1min，损坏的附件通常在该实验时会碎裂。
- ◆ 戴上防护用品。根据适用情况，使用面罩、安全护目镜或安全眼镜。适用时，戴上防尘面罩、听力保护器、手套和能挡小磨料或工件碎片的工作围裙。眼防护罩必须挡住各种操作产生的飞屑。防尘面具或口罩必须能过滤操作产生的颗粒。长期暴露在高强度噪声中会引起失聪。
- ◆ 让旁观者与工作区域保持一安全距离。任何进入工作区域的人必须戴上防护用品。工件或破损附件的碎片可能会飞出并引起紧靠着操作区域的旁观者的伤害。切割附件触及带电导线会使电动工具外露的金属零件带电，并使操作者触电。
- ◆ 当在切割附件有可能切割到暗线或自身电线的场所进行操作时，只能通过绝缘握持面来握住电动工具。切割附件碰到一根带电导线可能会使电动工具的外露金属零件带电并使操作者发生电击危险。
- ◆ 使软线远离旋转的附件。如果控制不当，软线可能被切断或缠绕，并使得你的手或手臂可能被卷入旋转附件中。
- ◆ 直到附件完全停止运动才放下电动工具。旋转的附件可能会抓住表面并拉动电动工具而让你失去对工具的控制。
- ◆ 当携带电动工具时不要开动它。意外地触及旋转附件可能会缠绕你的衣服而使附件伤害身体。
- ◆ 经常清理电动工具的通风口。电动风扇会将灰尘吸进机壳，过多的金属粉末沉积会导致电气危险。

- ◆ **不要在易燃材料附件操作电动工具。**火星可能会点燃这些材料。
- ◆ **不要使用需用冷却液的附件。**用水或其他冷却液可能会导致电腐蚀或电击。

### 反弹和相关警告

反弹是因卡住或缠绕住的旋转砂轮、靠背垫、钢丝刷或其他附件而产生的突然反作用力。卡住或缠绕会引起旋转附件的迅速堵转，随之使失控的电动工具在卡住点产生与附件旋转方向相反的运动。

例如，如果砂轮被工作缠绕或卡住，伸入卡住点的砂轮边缘可能会进入材料表面而引起砂轮爬出或反弹。砂轮可能飞向或飞离操作者，这取决于砂轮在卡住点的运动方向。在此条件下的砂轮也可能碎裂。

反弹是电动工具误用和/或不正确操作工序或条件的结果，可以通过采取以下给出的适当预防措施得以避免。

- ◆ **保持紧握电动工具，使你的身体和手臂处于正确状态以抵抗反弹力，如有辅助手柄，则要一直使用，以便最大限度控制住起动时的反弹力或反力矩。**如采取合适的预防措施，操作者就可以控制反力矩或反弹力。
- ◆ **绝不能将手靠近旋转附件。**附件可能会反弹碰到手。
- ◆ **不要站在发生反弹时电动工具可能移动到的地方。**反弹将在缠绕点驱使工具逆砂轮运动方向运动。
- ◆ **当在尖角、锐边等处作业时要特别小心。避免附件的弹跳和缠绕。**尖角、锐边和弹跳具有缠绕旋转附件的趋势并引起反弹的失控。
- ◆ **不要附上锯链、木雕刀片或带齿锯片。**这些锯片会产生频繁的反弹和失控。

### 砂磨和切割操作的附加安全说明

- ◆ **只使用所推荐的砂轮型号和为选用砂轮专门设计的护罩。**不是为电动工具设计的砂轮不能充分得到防护，是不安全的。
- ◆ **护罩必须牢固地装在电动工具上，且放置得最具安全性，只有最小的砂轮部分暴露在操作人面前。**护罩帮助保护操作者免于受到爆裂砂轮碎片和偶然触及砂轮的危险。

- ◆ **砂轮只用作推荐的用途。**例如：不要用切割砂轮的侧面进行磨削。施加到砂轮侧面的力可能会使其碎裂。
- ◆ **始终为所选砂轮选用未损坏的、有恰当规格和形状的砂轮法兰盘。**合适的砂轮法兰盘支承砂轮可以减小砂轮破裂的可能性。切割砂轮的法兰盘可以不同于砂轮法兰盘。
- ◆ **不要使用从大规格电动工具上用剩的磨损砂轮。**用于大规格电动工具上的砂轮不适用于较小规格工具的告诉工况并可能会爆裂。

### 他人安全

- ◆ **除非其安全负责人进行工具使用的监督或指导，否则体力、感知能力或心智不足的人（包括儿童）不得使用本工具。**
- ◆ **必须看管儿童，勿使其拿本工具玩耍。**

### 残余风险

使用工具时，可能出现本安全警示之外的其它残余风险。这些风险可能来自使用不当，使用时间过长等。

**尽管实行了相关的安全法规，采用安全装置，某些残余风险是不可避免的，这包括：**

- ◆ 接触旋转/移动部件时的伤害风险。
- ◆ 更换部件，刀具或配件时的伤害风险。
- ◆ 长期使用时的伤害风险。长期使用任何工具时，均应定期休息。
- ◆ 听力损伤。
- ◆ 吸入工具使用过程中产生的粉尘后，导致健康风险（例如：使用木材，特别是橡木，山毛榉和中密度纤维板时）。

### 工具上的标志

本工具有如下图形标志：



**警告！**为降低伤害风险，使用前务必阅读使用手册。




使用本工具时，请佩戴安全眼镜或护目镜。



使用本工具时，请佩戴听力保护器。

## 电气安全

 本工具为双重绝缘，因此无须接地线。随时检查并确保电源电压与铭牌上的使用电压相符。

- ◆ 如果电源线损坏，必须由厂商或百得授权服务中心更换，以排除隐患。

## 部件名称

本工具包含如下部分或全部部件。

1. On/off开关
2. 侧手柄
3. 心轴锁
4. 护罩

## 组装步骤

**警告！** 组装前，请确保工具关闭并拔下电源插头。

### 护罩安装、拆卸步骤（图A）

本工具提供的护罩仅用于磨光目的。

### 安装

- ◆ 将角磨机放置在平稳的表面上，心轴（5）朝上（图A1）
- ◆ 将研磨轮护罩上的3个凸耳（8）与齿轮箱盖上的3个凹槽（9）对齐。
- ◆ 把护耳（4）向下按，朝箭头方向旋转，直至工作位置，能够为使用者提供最大程度的保护（图A2）。
- ◆ 将螺栓（7）插入支架上的孔中。把螺母（17）拧到螺栓的螺纹上。使用十字花螺丝刀（18）（未提供）来紧固螺栓螺母。

**警告！** 护罩不牢固时，禁止使用本工具。

### 拆卸

以相反的顺序执行上述步骤。

### 侧手柄安装步骤

- ◆ 把侧手柄（2）拧到工具的一个安装孔内。

**警告！** 请随时使用侧手柄。

### 磨光轮的安装、拆卸步骤（图B-D）

请务必根据用途，使用正确类型的轮片。

请务必使用正确直径与孔径的轮片（见技术参数）。

### 安装步骤

- ◆ 按照上述步骤，安装护罩。
- ◆ 如图（图B）所示，将内法兰（10）置于心轴（5）上。请确保法兰正确定位到心轴的平面侧。
- ◆ 如图（图B）所示，将轮片（11）置于心轴（5）上。如果轮片有中心凸台（12），请确保凸台朝向内法兰。
- ◆ 确保轮片在内法兰上正确定位。
- ◆ 将外法兰（13）置于心轴上。如果安装的是磨光轮，外法兰的中心凸台必须朝向轮片（图C中A）。
- ◆ 按下心轴锁（3）的同时，使用两脚扳手（14）紧固外法兰（图D）。

### 拆卸步骤

- ◆ 按下心轴锁（3）的同时，使用两脚扳手（14）松开外法兰（图D）。
- ◆ 取下外法兰（13）和轮片（11）。

### 使用步骤

**警告！** 让工具在自有速度下工作，切勿过载。

- ◆ 小心地引导电源线，避免被意外切割。
- ◆ 请注意，磨光轮接触工件时，会迸发一股火花。
- ◆ 握持工具时，请始终使护罩为磨光轮提供最佳防护。

### 启动与关闭步骤

- ◆ 要启动工具，请把on/off开关向前滑动并前端向下压。请注意，当你释放开关后，工具会继续运转。
- ◆ 要关闭工具，请按下on/off开关的后部。

**警告！** 荷载条件下，禁止关闭工具。

### 最佳应用提示

- ◆ 一只手紧握侧手柄，另一只手紧握主手柄。
- ◆ 打磨时，务必在轮片与工件表面间保持大约15°角。

## 维护

本史丹利有绳/无绳电器/电动工具设计精良，可以长期使用，仅需极少维护。要连续获得令人满意的工作效果，需要您做合适的保养和定期的清洁。

### 推荐的工具附件（砂轮）的直径

推荐使用附件：

推荐使用100mm砂轮片。

**说明：**配件的额定转速应大于等于配套工具的额定转速。

⚠ **注意：**使用任何非推荐配件可能发生危险。

**警告！对有绳/无绳电动工具进行任何维护工作前，必须：**

- ◆ 关闭电源并拔下电器/工具插头。
- ◆ 或者电器/工具配有独立电池时，关闭开关并从电器/工具上取下电池。
- ◆ 或者电器/工具配有一体式电池时，把电池电量耗尽后关闭开关。
- ◆ 清洁充电座前，拔下电源插头。除了定期清洁外，本充电座无须其它保养。
- ◆ 定期使用软刷或干布清洁电器/工具充电器的通风槽。
- ◆ 定期使用湿布清洁马达外壳，但不得使用任何研磨性或溶剂型清洁剂。
- ◆ 定期打开并轻拍夹头，清除内部灰尘（如果安装时）。

## 服务资讯

史丹利完善的自有和授权服务网络遍布全亚洲。所有史丹利服务中心的员工都经过专门培训，可以为客户提供高效、可靠的电动工具服务。无论您需要技术咨询、维修或是正宗的原装配件，请联系离您最近的史丹利服务站。

## 备注

- ◆ 史丹利的政策之一就是持续改善我们的产品，因此，我们保留随时变更产品规格的权利，恕不另行通知。
- ◆ 标准设备和配件可能会根据不同的国家而有所不同。
- ◆ 产品规格可能会根据不同的国家而有所不同。
- ◆ 并非所有国家都有提供完整的产品系列。如需各产品系列的供应情，请联络您当地的史丹利代理商。

**制造商：**百得美国公司

**地址：**美国

**生产厂名称：**扬州金力电动工具有限公司

**产地：**江苏省扬州市市史可法路38号

