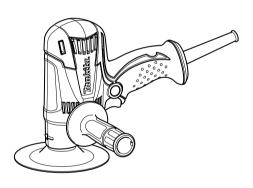
# **INSTRUCTION MANUAL**



# **Disc Sander**

GV5010 GV6010



008944



# **∆WARNING**:

For your personal safety, READ and UNDERSTAND before using. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

#### **ENGLISH**

# **SPECIFICATIONS**

| Model   | GV5010                 | GV6010 |
|---|------------------------|--------|
| Abrasive disc diameter                          | 125 mm                 | 150 mm |
| Rated speed (n)/No load speed (n <sub>0</sub> ) | 4500 min <sup>-1</sup> |        |
| Overall length                                  | 181 mm                 |        |
| Net weight                                      | 1.2 kg                 |        |
| Safety class                                    | □ /II                  |        |

- · Due to our continuing programme of research and development, the specifications herein are subject to change without notice.
- · Specifications may differ from country to country.
- · Weight according to EPTA-Procedure 01/2003

END202-6

#### Wear ear protection

FNG228-5

#### **Symbols**

The following show the symbols used for the equipment. Be sure that you understand their meaning before use.



· Read instruction manual.



DOUBLE INSULATION





Wear safety glasses.



· Only for EU countries

Do not dispose of electric equipment together with household waste material! In observance of European Directive 2002/96/EC on waste electric and electronic equipment and its implementation in accordance with national law, electric equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

ENE052-1

ENF002-1

# Intended use

The tool is intended for the sanding of large surface of wood, plastic and metal materials as well as painted surfaces.

#### Power supply

The tool should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply. They are double-insulated in accordance with European Standard and can, therefore, also be used from sockets without earth wire.

ENG102-3 000230

Noise

The typical A-weighted noise level determined according to EN60745:

Sound pressure level ( $L_{pA}$ ): 83 dB(A) Sound power level ( $L_{WA}$ ): 94 dB(A) Uncertainty (K): 3 dB(A)

# Vibration

The vibration total value (tri-axial vector sum) determined according to EN60745:

Work mode: disc sanding

Vibration emission (a<sub>h,DS</sub>): 2.5 m/s<sup>2</sup> or less

Uncertainty (K): 1.5 m/s<sup>2</sup>

If the tool is used for other applications, the vibration emission value may be different.

ENH101-13

# For European countries only

# EC Declaration of Conformity

We Makita Corporation as the responsible manufacturer declare that the following Makita machine(s):

Designation of Machine: Disc Sander

Model No./ Type: GV5010,GV6010

are of series production and

#### Conforms to the following European Directives:

98/37/EC until 28th December 2009 and then with 2006/42/EC from 29th December 2009

And are manufactured in accordance with the following standards or standardised documents:

EN60745

The technical documentation is kept by our authorised representative in Europe who is:

Makita International Europe Ltd, Michigan, Drive, Tongwell, Milton Keynes, MK15 8JD, England

30th January 2009

Tomoyasu Kato Director Makita Corporation 3-11-8, Sumiyoshi-cho, Anjo, Aichi, JAPAN

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GEA005-3

# General Power Tool Safety Warnings

MARNING Read all safety warnings and all 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.

# 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.

#### **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.
- Use of power supply via a RCD with a rated residual current of 30mA or less is always recommended.

# Personal safety

- 11. 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.
- 12. 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.
- 13. 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.
- 14. 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.
- 16. 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.
- 17. 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.

#### Power tool use and care

- 18. 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.
- 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.
- 20. 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.

- 21. 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.
- 22. Maintain power tools. 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.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- 24. 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.

#### 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.
- 26. Follow instruction for lubricating and changing accessories.
- Keep handles dry, clean and free from oil and grease.

GEB036-3

# DISC SANDER SAFETY WARNINGS

Safety Warnings Common for Sanding Operation:

- This power tool is intended to function as a sander. 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 such as grinding, 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.
- 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.
- 6. The arbour size of 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.
- 7. Do not use a damaged accessory. Before each use inspect the accessory such as backing pad for cracks, tear or excess wear. 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.
- 8 personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As dust mask. appropriate, wear hearing protectors, gloves and workshop apron of stopping small 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.
- 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.
- 10. 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.
- 14. 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.

#### 17. Kickback and Related Warnings

Kickback is a sudden reaction to a snagged rotating backing pad or any other accessory. 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. 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:

18. 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.

- Check the backing pad carefully for cracks, damage or deformity before operation.
  Replace cracked, damaged or deformed pad immediately.
- NEVER use tool with wood cutting blades or other sawblades. Such blades when used on a sander frequently kick and cause loss of control leading to personal injury.
- 21. Hold the tool firmly.
- 22. Keep hands away from rotating parts.
- Make sure the abrasive disc is not contacting the workpiece before the switch is turned on.
- 24. When sanding metal surfaces, watch out for flying sparks. Hold the tool so that sparks fly away from you and other persons or flammable materials.
- Do not leave the tool running. Operate the tool only when hand-held.
- Do not touch the workpiece immediately after operation; it may be extremely hot and could burn your skin.
- Check that the workpiece is properly supported.
- 28. Pay attention that the wheel continues to rotate after the tool is switched off.
- 29. This tool has not been waterproofed, so do not use water on the workpiece surface.
- Ventilate your work area adequately when you perform sanding operations.
- Use of this tool to sand some products, paints and wood could expose user to dust containing hazardous substances. Use appropriate respiratory protection.
- Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.
- If working place is extremely hot and humid, or badly polluted by conductive dust, use a short-circuit breaker (30 mA) to assure operator safety.
- 34. Do not use the tool on any materials containing asbestos.
- Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.
- Always use the correct dust mask/respirator for the material and application you are working with.
- 37. Ensure that ventilation openings are kept clear when working in dusty conditions. If it should become necessary to clear dust, first disconnect the tool from the mains supply ( use non metallic objects ) and avoid damaging internal parts.

# SAVE THESE INSTRUCTIONS.

#### **∆WARNING:**

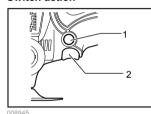
DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

# **FUNCTIONAL DESCRIPTION**

#### ACAUTION:

Always be sure that the tool is switched off and unplugged before adjusting or checking function on the tool.

#### Switch action



- 1. Lock button
- 2. Switch trigger

# **∆CAUTION:**

Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

To start the tool, simply pull the switch trigger. Release the switch trigger to stop.

For continuous operation, pull the switch trigger and then push in the lock button.

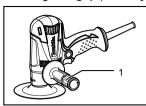
To stop the tool from the locked position, pull the switch trigger fully, then release it.

# **ASSEMBLY**

#### **∆CAUTION:**

Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

# Installing side grip (auxiliary handle)



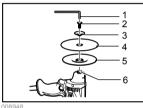
1. Side arip

### **∆CAUTION:**

Always be sure that the side grip is installed securely before operation.

Screw the side grip on the tool securely.

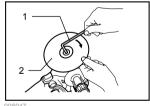
# Installing or removing abrasive disc



- 1. Hex wrench
  - 2. Clamp screw 3. Countersunk
  - washer
  - 4. Abrasive disc
- 5 Plastic pad
- 6. Spindle

Mount the pad onto the spindle. Fit the abrasive disc and countersunk washer on the pad and screw the clamp screw clockwise into the spindle.

To tighten the clamp screw, grip the edge of the pad with your hand, then tighten the screw clockwise with a hex wrench securely.

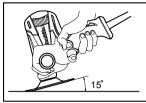


- 1. Hex wrench
- 2 Abrasive disc

To remove the disc, follow the installation procedure in reverse.

# **OPERATION**

# Sanding operation



008946

### **∆CAUTION**:

- Always wear safety goggles or a face shield during operation.
- Never run the tool without the abrasive disc. You may seriously damage the pad.
- Always use the side grip (auxiliary handle) and firmly hold the tool by both side grip and switch handle during operations.

Hold the tool firmly. Turn the tool on and then apply the abrasive disc to the workpiece.

In general, keep the abrasive disc at an angle of about 15 degrees to the workpiece surface. Apply slight pressure only. Excessive pressure will result in poor performance and premature wear to abrasive disc.

# **MAINTENANCE**

### **∆CAUTION:**

 Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized Service Centers, always using Makita replacement parts.

# **ACCESSORIES**

#### **∆CAUTION**:

These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose. If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- Plastic pad
- Abrasive discs
- Rubber pad (GV6010)
- Grip 36

Makita Corporation Anjo, Aichi, Japan