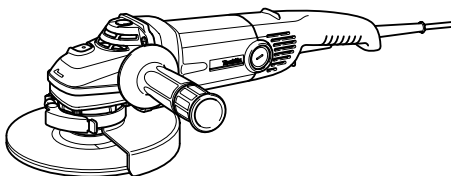


INSTRUCTION MANUAL



Angle Grinder

GA7010C
GA7010CF
GA9010C
GA9010CF



005003



DOUBLE INSULATION

⚠ WARNING:

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

ENGLISH

SPECIFICATIONS

Model	GA7010C/GA7010CF	GA9010C/GA9010CF
Depressed center wheel diameter	180 mm	230 mm
Spindle thread	M14	M14
No load speed (min ⁻¹)	8,400	6,000
Overall length	453 mm	453 mm
Net weight	3.4 kg	3.4 kg
Safety class	II / III	

• Due to our continuing programme of research and development, the specifications herein are subject to change without notice.

• Note: Specifications may differ from country to country.

END202-2

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.

ENE048-1

Intended use

The tool is intended for grinding, sanding and cutting of metal and stone materials without the use of water.

ENF002-1

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.

For Model GA7010C, GA7010CF

ENG005-1

For European countries only

Noise and Vibration

The typical A-weighted noise levels are
sound pressure level: 90 dB (A)
sound power level: 103 dB (A)

Wear ear protection.

The typical weighted root mean square acceleration value is not more than 2.5 m/s².

For Model GA9010C, GA9010CF

ENG006-1

For European countries only

Noise and Vibration

The typical A-weighted noise levels are
sound pressure level: 91 dB (A)
sound power level: 104 dB (A)

Wear ear protection.

The typical weighted root mean square acceleration value is 3 m/s².

ENH001-6

EC-DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product is in compliance with the following standards of standardized documents;

EN50144, EN55014, EN61000 in accordance with Council Directives, 89/336/EEC, 98/37/EC.

Yasuhiro Kanzaki **CE2006**

000087

Director

MAKITA INTERNATIONAL EUROPE LTD.

Michigan Drive, Tongwell, Milton Keynes, Bucks MK15 8JD, ENGLAND

Responsible manufacturer:

Makita Corporation Anjo Aichi Japan

ENA100-1

GENERAL SAFETY RULES

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

SAVE THESE INSTRUCTIONS.

Work Area

1. **Keep work area clean and well lit.** Cluttered and 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

4. **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.
5. **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.
6. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
7. **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.
8. **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.

Personal Safety

9. **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.
10. **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
11. **Avoid accidental starting. Ensure the switch is in the off-position before plugging in.** Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
12. **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.
13. **Do not overreach. Keep proper footing and balance at all times.** This enables better control

of the power tool in unexpected situations.

14. **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.
15. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.

Power tool use and care

16. **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.
17. **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.
18. **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.
19. **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.
20. **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.
21. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
22. **Use the power tool, accessories and tool bits etc. in accordance with these instructions and in the manner intended for the particular type of power tool, 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 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

23. **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.

ENB031-6

ADDITIONAL SAFETY RULES

1. Always use eye and ear protection. Other personal protective equipment such as dust mask, gloves, helmet and apron should be worn.
2. Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.
3. Keep guards in place.
4. Use only wheels with correct size and wheels having a maximum operating speed at least as high as the highest No Load Speed marked on the tool's nameplate. When using depressed center wheels, be sure to use only fiberglass-reinforced wheels.
5. Check the wheel carefully for cracks or damage before operation. Replace cracked or damaged wheel immediately.
6. Observe the instructions of the manufacturer for correct mounting and use of wheels. Handle and store wheels with care.
7. Do not use separate reducing bushings or adaptors to adapt large hole abrasive wheels.
8. Use only flanges specified for this tool.
9. Do not damage the spindle, the flange (especially the installing surface) or the lock nut. Damage to these parts could result in wheel breakage.
10. For tools intended to be fitted with threaded hole wheel, ensure that the thread in the wheel is long enough to accept the spindle length.
11. Before using the tool on an actual workpiece, test run the tool at the highest no load speed for at least 30 seconds in a safe position. Stop immediately if there is any vibration or wobbling that could indicate poor installation or a poorly balanced wheel. Check the tool to determine the cause.
12. Check that the workpiece is properly supported.
13. Hold the tool firmly.
14. Keep hands away from rotating parts.
15. Make sure the wheel is not contacting the workpiece before the switch is turned on.
16. Use the specified surface of the wheel to perform the grinding.
17. Do not use cutting off wheel for side grinding.
18. Watch out for flying sparks. Hold the tool so that sparks fly away from you and other persons or flammable materials.
19. Pay attention that the wheel continues to rotate after the tool is switched off.
20. Do not touch the workpiece immediately after operation; it may be extremely hot and could burn your skin.
21. Position the tool so that the power cord always stays behind the machine during operation.
22. 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.
23. Do not use the tool on any materials containing asbestos.
24. Do not use water or grinding lubricant.
25. 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.
26. When use cut-off wheel, always work with the dust collecting wheel guard required by domestic regulation.
27. Cutting discs must not be subjected to any lateral pressure.

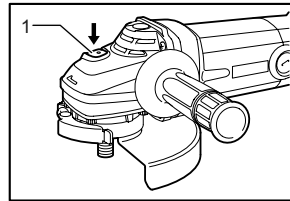
SAVE THESE INSTRUCTIONS.

FUNCTIONAL DESCRIPTION

⚠ CAUTION:

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

Shaft lock



1. Shaft lock

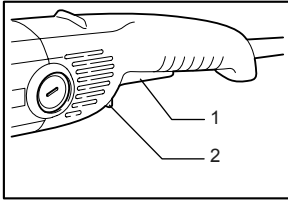
005004

⚠ CAUTION:

- Never actuate the shaft lock when the spindle is moving. The tool may be damaged.

Press the shaft lock to prevent spindle rotation when installing or removing accessories.

Switch action



005005

1. Switch trigger
2. Lock lever

⚠ CAUTION:

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

For tool with the lock-on switch

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

For tool with the lock-off switch

To prevent the switch trigger from accidentally pulled, a lock lever is provided.

To start the tool, push in the lock lever and then pull the switch trigger. Release the switch trigger to stop.

For tool with the lock on and lock-off switch

To prevent the switch trigger from accidentally pulled, a lock lever is provided.

To start the tool, push in the lock lever and then pull the switch trigger. Release the switch trigger to stop.

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

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

Electronic function

The tools equipped with electronic function are easy to operate because of the following features.

Constant speed control

Possible to get fine finish, because the rotating speed is kept constantly even under the loaded condition.

Additionally, when the load on the tool exceeds admissible levels, power to the motor is reduced to protect the motor from overheating. When the load returns to admissible levels, the tool will operate as normal.

Soft start feature

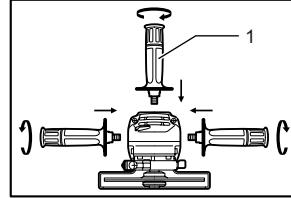
Soft start because of suppressed starting shock.

ASSEMBLY

⚠ CAUTION:

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

Installing side grip (handle)



005006

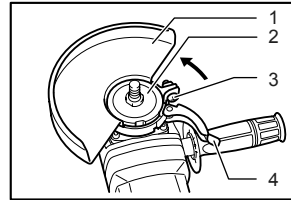
1. Side grip

⚠ CAUTION:

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

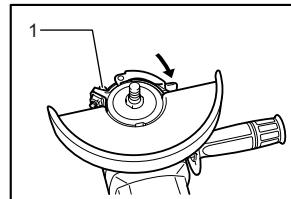
Screw the side grip securely on the position of the tool as shown in the figure.

Installing or removing wheel guard (accessory)



005007

1. Wheel guard
2. Bearing box
3. Screw
4. Lever



005008

1. Screw

⚠ CAUTION:

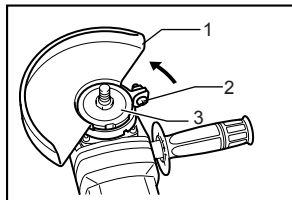
- The wheel guard must be fitted on the tool so that the closed side of the guard always points toward the operator.

Loosen the lever on the wheel guard. Mount the wheel guard with the protrusion on the wheel guard band

aligned with the notch on the bearing box. Then rotate the wheel guard around to the position shown in the figure. Tighten the lever to fasten the wheel guard. If the lever is too tight or too loose to fasten the wheel guard, loosen or tighten the screw to adjust the tightening of the wheel guard band.

To remove wheel guard, follow the installation procedure in reverse.

Installing or removing wheel guard (accessory)



007829

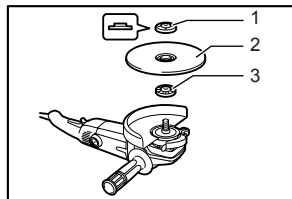
1. Wheel guard
2. Bearing box
3. Screw

⚠ CAUTION:

- The wheel guard must be fitted on the tool so that the closed side of the guard always points toward the operator.

Mount the wheel guard with the protrusion on the wheel guard band aligned with the notch on the bearing box. Then rotate the wheel guard around 180 degrees counterclockwise. Be sure to tighten the screw securely. To remove wheel guard, follow the installation procedure in reverse.

Installing or removing depressed center grinding wheel/Multi-disc (accessory)



005014

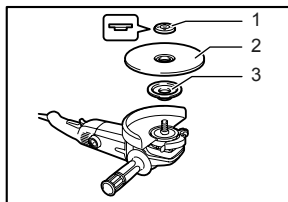
1. Lock nut
2. Depressed center wheel/Multi disc
3. Inner flange

Mount the inner flange onto the spindle. Fit the wheel/disc on the inner flange and screw the lock nut onto the spindle.

Super flange

Models GA7010CF and GA9010CF are standard-equipped with a super flange. Only 1/3 of efforts needed to undo lock nut, compared with conventional type.

For Australia and New Zealand

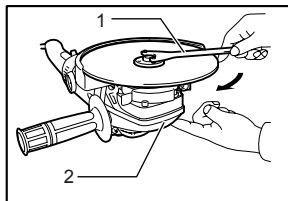


005009

1. Lock nut
2. Depressed center wheel/Multi disc
3. Inner flange

Mount the inner flange onto the spindle. Fit the wheel/disc on the inner flange and screw the lock nut with its protrusion facing downward (facing toward the wheel).

To tighten the lock nut, press the shaft lock firmly so that the spindle cannot revolve, then use the lock nut wrench and securely tighten clockwise.

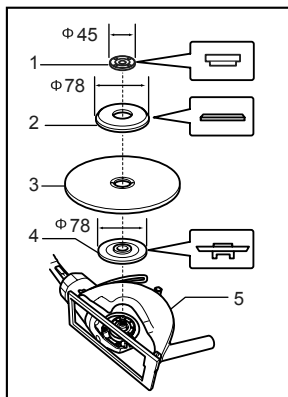


005010

1. Lock nut wrench
2. Shaft lock

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

Installing or removing cut-off wheel



004351

1. Lock nut
2. Outer flange 78
3. Cut-off wheel
4. Inner flange 78
5. Dust collecting wheel guard

For Australia and New Zealand

Mount the inner flange onto the spindle. Fit the cut-off wheel on over the inner flange.

Mount the outer flange on the wheel and screw the lock nut with its protrusion facing downward (facing toward the wheel).

To tighten the lock nut, press the shaft lock firmly so that the spindle cannot revolve, then use the lock nut wrench and securely tighten clockwise.

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

OPERATION

⚠ WARNING:

- It should never be necessary to force the tool. The weight of the tool applies adequate pressure. Forcing and excessive pressure could cause dangerous wheel breakage.
- ALWAYS replace wheel if tool is dropped while grinding.
- NEVER bang or hit grinding disc or wheel onto work.
- Avoid bouncing and snagging the wheel, especially when working corners, sharp edges etc. This can cause loss of control and kickback.
- NEVER use tool with wood cutting blades and other sawblades. Such blades when used on a grinder frequently kick and cause loss of control leading to personal injury.

⚠ CAUTION:

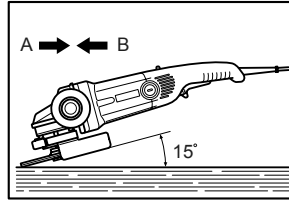
- Never switch on the tool when it is in contact with the workpiece, it may cause an injury to operator.
- Always wear safety goggles or a face shield during operation.
- After operation, always switch off the tool and wait until the wheel has come to a complete stop before putting the tool down.

Grinding and sanding operation

ALWAYS hold the tool firmly with one hand on rear handle and the other on the side handle. Turn the tool on and then apply the wheel or disc to the workpiece.

In general, keep the edge of the wheel or disc at an angle of about 15 degrees to the workpiece surface.

During the break-in period with a new wheel, do not work the grinder in the B direction or it will cut into the workpiece. Once the edge of the wheel has been rounded off by use, the wheel may be worked in both A and B direction.

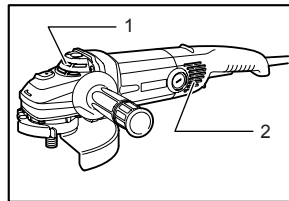


005011

MAINTENANCE

⚠ CAUTION:

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

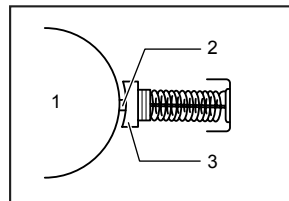


1. Exhaust vent
2. Inhalation vent

005012

The tool and its air vents have to be kept clean. Regularly clean the tool's air vents or whenever the vents start to become obstructed.

Replacing carbon brushes

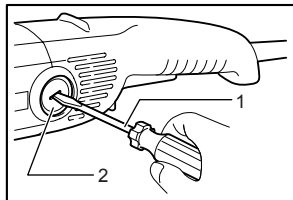


1. Commutator
2. Insulating tip
3. Carbon brush

001146

When the resin insulating tip inside the carbon brush is exposed to contact the commutator, it will automatically shut off the motor. When this occurs, both carbon brushes should be replaced. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.

Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.



1. Screwdriver
2. Brush holder cap

005013

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.

- Wheel guard (Wheel cover)
- Inner flange
- Depressed center wheels
- Lock nut (For depressed center wheel)
- Rubber pad
- Abrasive discs
- Lock nut (For abrasive disc)
- Lock nut wrench
- Cut-off wheels
- Inner flange (For cut-off wheel)
- Outer flange (For cut-off wheel)
- Wire cup brush
- Side grip
- Dust collecting wheel guard
- Dust cover attachment

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Makita Corporation Anjo, Aichi, Japan