

JOB SITE

52CC PETROL GROUND AUGER

CT2293



CE

OPERATION MANUAL

Please read this manual carefully. It contains important safety information.

Cannon Tools Limited

Address: 20 Station Road, Rowley Regis, West Midlands, B65 0JU.U.K.

EC DECLARATION OF CONFORMITY

We CANNON TOOLS LTD

20 Station road, Rowley Regis, West Midlands,B65 0JU.U.K.

Declare that the following machine complies with the appropriate basic safety and health requirements of the EC Directive based on its design and type, as brought into circulation by us.

In case of alteration of the machine, not agreed upon by us, this declaration will lose its validity.

Product description: 52CC PETROL GROUND AUGER

Model: CT2293

Applicable EC Directives:

EC-Machinery Directive 2006/42/EC

EMC Directive of Electromagnetic Compatibility 2014/30/EU

Harmonized standards:

PPP 16014A:2022, EN ISO 12100:2010, EN ISO14982:2009

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Mr. Gurcharan Tony Singh Sanghera

Managing Director

CANNON TOOLS LTD

G. S.



2021-04-15

1.SPECIFICATION

Model: CT2293

Engine Type: 2 stroke, air cooled, single cylinder

Displacement: 52cc

Max. engine power: 1.45kW

Max. Engine speed: 8500/min

Fuel tank: 1.2L

Specified drill bit diameter: 100/150/200mm

Specified drill bit length: 80cm

Drill bit rotation speed at maximum allowed engine speed: 240/min

Rotation direction of output shaft: counter-clockwise

Engine speed at maximum power: 7500min

Recommended maximum engine speed: 8500/min

Engine idling speed: 3000/min

Engine speed at beginning of clutch engagement:>3800/min

Throttle locked speed: <3800/min

Fuel Consumption Rate: ≥ 700 kg/h

Specified fuel consumption at maximum engine power: 900/(kw/h)

Fuel/oil: 40:1

Emission sound pressure level at work station

Idling (LpI) : 68.4dB(A) K=3dB(A)

Racing (LpR): 92.8dB(A) K=3dB(A)

Sound power level

Idling (LWI) : 88.4dB(A) K=3dB(A)

Racing (LWR): 112.8dB(A) K=3dB(A)

Vibration level

Idling: 5.948m/s^2 (main handle), 6.812m/s^2 (auxiliary handle), $K=1.5\text{m/s}^2$

Racing: 20.520m/s^2 (main handle), 20.984m/s^2 (auxiliary handle), $K=1.5\text{m/s}^2$

2. SAFETY INSTRUCTIONS

THIS MACHINE MAY CAUSE SERIOUS INJURIES. Read the instructions carefully for handling, preparing, maintaining, starting and stopping the machine. Learn more about all the controls and proper use of the machine.

- WARNING! When using this type of tool, basic precautions should always be followed to reduce the risk of fire, electric shock and injury.
- Read all instructions carefully before attempting to use this product and retain these instructions. Be familiar with all the operations described in these operating instructions. This product must be operated and operated by experienced users.
- If you are giving this machine to others, please also provide them with this instructions manual.
- Also read all markings on the product. The symbols on the tools are explained in the manual.
- Use this machine as described in this instruction manual. It is strictly forbidden to use this tool for applications other than those described in this manual.
- Failure to follow these instructions can result serious injuries and, in some cases, death.
- This product is intended for private domestic use only. Do not use it for commercial purposes.
- Never let people unfamiliar with these instructions or children use this product.
- National regulations may limit the use of the machine.
- People under the age of 18 must not use this product
- Keep in mind that the operator or user is responsible for accidents or risks to other persons or their property.
- Do not use the tool if you are drunk, tired, under the influence of drugs or ill. Do not use the tool if you are not in an adequate physical condition.
- This tool is intended for outdoor use. Never use it indoors.
- Never allow children use the machine.
- Avoid running it while people, especially children, are around.
- Dress properly! Do not wear loose fitting clothing or jewellery that can be caught in moving parts. Using resistant gloves, non-slip shoes and safety glasses is recommended.
- Stop - the engine or disconnect it before:
 - cleaning or clearing a blockage;
 - checking, maintaining, or working on the machine;
 - when adjusting the working position of the cutting device.
- Handle fuel with care; it's highly flammable. Never add fuel to a machine with a running engine or when it's hot. Do not inhale fuel fumes as they are toxic.

- Do not attempt to repair the machine unless you are qualified to do so.
- Do not use the machine with a damaged or excessively worn cutting device.
- To reduce the risk of fire, keep the engine and muffler free from debris, leaves or excessive lubricant.
- Always make sure that all handles and guards are installed when operating the machine.
- Never attempt to use an incomplete machine or a machine equipped with an unauthorized modification.
- When transporting or storing the machine, always install the cutting device protection if provided.
- Always be aware of your environment and pay attention to possible dangers that cannot be heard due to the noise of the machine.
- Keep people and animals away from the work area. Children and people who do not know how to use this tool should not touch it and handle it.
- Use the product only under daylight or under good artificial light.
- *When* using the machine, always wear full protective equipment including a helmet, protective mask, ear protection, gloves, non-slip footwear and protective clothing.
- Wear appropriate clothing. Do not wear loose or unbuttoned shirts. Do not wear jewellery that may come in contact with moving parts. If you have long hair, tie them down and wear an appropriate safety helmet.
- Do not operate the product with damaged guards or shields not in place.
- Keep hands and feet away from the unit at all times, especially when turning the tool off and on.
- Do not use the tool in an area where ventilation is poor. Gas emissions can cause injury.
- Do not work when it rains and in bad weather. Do not use the tool in damp locations.
- Do not use the tool in the presence of flammable liquids or gases.
- Caution: The machine releases gases when it is used. Avoid coming into contact with these gases.
- Keep the work area clear. Before working, inspect the work area and remove any materials or objects that could cause accidents.
- Do not force the tool.
- Keep the tool and drill clean for better and safer performance. Follow the instructions in this manual to lubricate and change the accessories.
- Always inspect the machine before and after operation. If the tool is damaged or faulty, stop using the tool and bring it to an authorized service for inspection and repair.
- Turn off the tool after use, when you leave it unattended, when changing these accessories and before servicing.
- Keep handles dry, clean and free from oil and grease.

- Be concentrated when using the tool. Look at what you do, make sense and do not use the tool when you are tired.
- Place the equipment in a well-lit area on a flat, stable, dry and well-ventilated surface, away from flammable materials and with plenty of space for sparking and sharpening waste.
- Do not allow anyone, especially children, to come within a radius of at least five meters around the work area when all work is in progress.
- Immediately stop the tool in the event of a malfunction of the motor or the ON/OFF button or in case of unusual noise.
- When not in use, the machine must be stored in a dry, locked place out of the reach of children.
- Before using the product and after any shock, please check it for signs of wear or damage.
- Please carry out repairs if necessary.
- Always switch off the machine:
 - Every time you leave the device unattended;
 - Before releasing an obstruction;
 - before checking, cleaning or working on the product;
 - after hitting a foreign object;
 - Every time the product starts to vibrate abnormally.
- Pay attention to foot and cutting injuries.
- Inspect and regularly service the product. Repairs should be carried out only by an authorized service center or a similar qualified specialist.
- When not in use, store the product out of the reach of children.
- Children should not play with plastic bags, sheets and small parts! Keep them out of the reach of children. There is a danger of suffocation!
- Always carry the tool while holding the handle, never the drill.
- Do not use the product on a slippery surface.
- Do not use the product on steep, slippery slopes.
- If the machine has struck foreign objects, check if the tool is damaged and bring it to repair if necessary.
- Keep away all body parts from the running machine.
- Be careful when using the machine in stormy weather. Do not use the machine during lightning, thunderstorms and bad weather in general.

Fuel Handling

- Be very careful when handling fuels. They are flammable and the vapours are explosive.
- Use only an approved container.
- Never remove the fuel cap or add fuel while the machine is on. Turn off the unit and allow the engine and exhaust components to cool before refuelling.
- Do not smoke.

- Never refuel inside a room.
- Never store the tool and the fuel tray indoors where there is a naked flame, such as near a water heater.
- If fuel has spilled, do not attempt to start the machine, but rather move it away from the spill before starting to use it. Clean any spills.
- Replace and tighten the fuel tank cap after refuelling.
- Follow the instructions in this manual for filling the tool with fuel.

During maintenance and storage

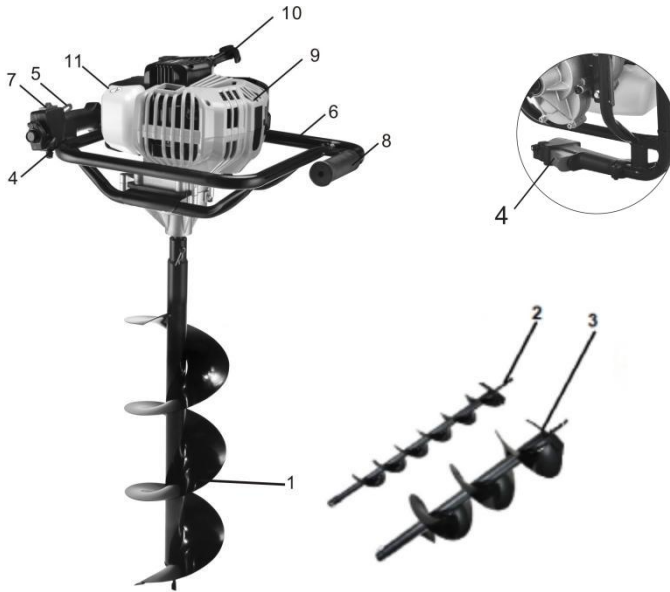
- Stop the tool and wait until it stops. Make sure all moving parts have come to a standstill.
- Allow the machine to cool before performing inspection, adjustments, maintenance, servicing and storage.

Residual risks

Even if you use this product in accordance with all safety requirements, the potential risks of injuries and damage remain. The following hazards might happen within the structure and design of this product:

- There are adverse health consequences due to the emission of vibrations if the product is used over long periods of time or not managed properly and maintained in a suitable way.
- There are risks of injuries and property damage caused by the attachments or broken attachments or sudden impact of hidden objects when using the cutting function.
- Risk of damage to persons and property caused by flying objects.
- A prolonged use of this product exposes the operator to vibration and may determine the so-called "white finger" disease. To reduce the risk, please wear gloves and keep your hands warm.
- If any of the symptoms of the "white finger" syndrome appear, consult a doctor immediately. Symptoms of the "white finger" include: numbness, loss of sensitivity, tickling, tingling, pain, loss of strength, colour changes or skin condition. These symptoms usually appear on fingers, hands or wrists. The risk is higher at low temperatures.
- Risk of hearing loss if the machine is used for long periods of time without hearing protection.

3. TECHNICAL DESCRIPTION



- | | | |
|------------------|------------------|----------------|
| 1. Drill rod | 2. Drill rod | 3. Drill rod |
| 4. Trigger | 5. Safety button | 6. Grab handle |
| 7. ON/OFF switch | 8. Handle | 9. Motor |
| 10. Recoil | 11. Fuel tank | |

4. FILLING THE FUEL TANK

WARNING: When filling the tank:

- The drill should always be stopped and cooled.
- Never smoke during refueling. It must not have flames or sparks near the fuel.
- Do not attempt to refuel when the engine is hot.
- If fuel has been spilled, immediately stop refueling and do not start the engine. Clean up the spill and fill the machine in another location.
- Never fill the fuel tank to the flange; there is a risk of overflow.
- Do not refuel in a closed and unventilated area.

The fuel used for this tool is a mixture of unleaded gasoline and registered engine lubricant. When mixing gasoline with oil, use only gasoline that does not contain ethanol or methanol. Unleaded gasoline is a quality gasoline type. This

will help to avoid damaging the fuel lines of the engine and other engine parts.

The recommended mixing ratio is 40:1 (make sure the mixing ratio is correct before filling the product).

a) Mixing

- Prepare the mixture in a clean and empty container.
- Pour the oil into the container.
- Pour the fuel into the tank. Stir the mixture long enough (more than one minute) to get a proper blending.

b) Filling the fuel tank

- Unscrew the fuel tank cap and remove it.
- Fill the tank slowly with the mixture. Do not exceed the maximum capacity (fill to 80% of its capacity preferably).
- Replace the cap on the fuel tank and tighten it.
- Wipe any spillage around the unit if necessary.

*Note: To avoid damage and accidents, **DO NOT USE OTHER MIXTURES AND OTHER TYPES OF OIL / PETROL .***

c) Storage of fuel

The fuel must be kept in a clean and safe container and always closed.

If you are not using the product for a long time, remove the fuel mixture and add it to a container.

Do not leave the fuel for a long time in the product. The fuel may clog the carburetor and the engine will not operate properly.

d) Disposal of fuel

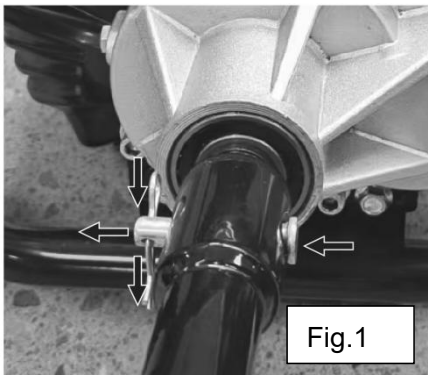
When the fuel is no longer used or worn, please dispose of it in an authorized location.

Check local laws regarding disposal of fuels.

5. USE

a. Drill rod assembly (See fig .1)

- Place the machine body on a flat and stable location.
- Remove the clip and pin on the drill rod.
- Install the rod and align the holes to be able to connect the two sets.
- Put the pin back in place by clipping.
- Release the clipping and remove the pin.

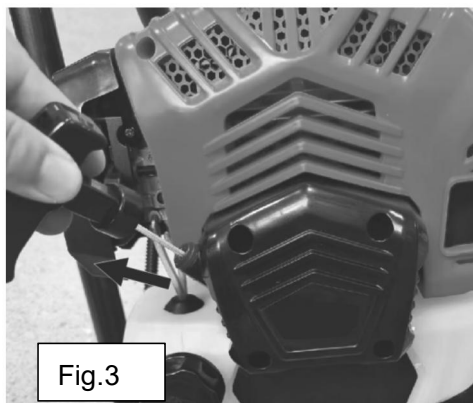


b. Before use

- Check the condition of the machine, that there is no damage or malfunction. In case of problems, do not use the machine and inspect it.
- Check that the drill rod is properly assembled.
- Check the fuel volume. Always refuel before operating the machine. Never use the machine with little or no fuel.
- Check the workspace; remove all obstacles, materials and objects that could pose danger and cause an accident.
- Secure the workspace by placing markings to alert spectators of existing potential risk.

c. Use

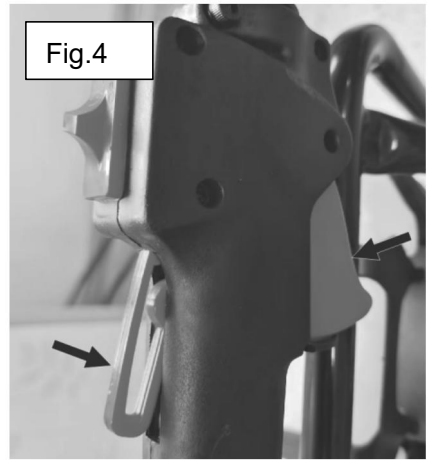
- Hold the drill vertically. Place the rod against the ground.
- Switch on the machine by turning the switch to ON. (Fig. 2)
- Pull the launcher cable to start the machine.
- Hold the drill by grasping the holding handle and main handle
- Gradually increase the speed by pressing and holding the safety switch



and then pulling the acceleration trigger.

Exert some downward force. (Fig. 4)

- When the drill rod has penetrated 10 cm into the ground, grasp the frame strongly and increase the effort downwards.
- To drill a deep hole, lower the rod gradually.
- When you have dug the required size, decrease the drilling speed.
- Remove the rod, then stop the machine.
- You can start drilling another hole.
- To stop the machine, release the trigger and turn the switch to OFF. Let the machine stop completely before placing it on the ground.



d. Precautions during the operation

- Spectators (especially children and animals) should remain at least 5 metres away from the workspace. Stop anyone from entering the workspace during the operation.
- When a person comes close, stop the machine to avoid possible injury.
- Pay attention to your work and the environment where you work. Stop the operation immediately when something unexpected happens.
- Avoid working on slopes. If you absolutely have to work on a slope, pay double attention to avoid accidents and injuries.
- Stop the machine when you take a break, change the workplace and leave the machine unattended.
- Never touch the drill rod while operating the machine. Any intervention on the machine should be done with the machine switched off and cooled.
- During the operation, move all parts of the body away from the rod.
- Wait until the machine has stopped completely before placing it on the ground.

e. Jamming and breakdowns

- When the drill gets stuck, release the accelerator to slow down the machine. you have to release the accelerator and turn it back to idle to loosen it.
- In case of failure, stop the machine completely. Check the machine and have it inspected and repaired by a qualified service technician.

6. MAINTENANCE AND STORAGE

Maintenance

Service your tool regularly. This shall keep your tool in good working condition and extend its service life.

Do not use abrasive and corrosive agents to clean the tool. These types of products damage your tool.

Do not repair it yourself. Repairs and inspections should be performed by a qualified person or an authorized service centre (please contact your dealer).

1) .After each use

Check the rod and tool body (cleanliness, wear, damage, etc.). If you notice damage, wear or malfunction, do not use the tool and submit it to a qualified service for inspection and repair.

2). Maintenance schedule

The maintenance work described below may be performed by the operator. You can also request a qualified technician to perform this maintenance work.

		After each use	1 st month or 20 hours	Every season or 50 hours	6 months or 100 hours	12 months or 300 hours
Engine oil	Checking the oil level	✓				
	Change		✓		✓	
Air filter	Checking	✓				
	Cleaning - change			✓		
Spark plug	Cleaning or readjusting				✓	
	Change				✓	

Storage

Cleaning the machine.

Store the machine in a dry and safe place. It should be out of the reach of children.

Place the machine in its packaging to avoid contact with the drill rod.

When storing for long periods of time, empty the fuel tank completely.

7. DISPOSAL

At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.

Contact your local authority for details of collection schemes in your area.








In all circumstances:

Do not dispose of this tool with domestic waste.

Do not incinerate.

8. SYMBOLS

In this manual and/or on the machine the following symbols are used:

	Denotes risk of personal injury, loss of life or damage to the tool in case of non-observance of the instructions in this manual.
	Read the instruction manual
	Wear protective equipment: protective helmet, safety glasses, noise protection helmet.
	Wear protective gloves
	Wear protective foot wear.
	CAUTION : Hot surface
	Don't smoke

No.	Engine Name	QTY
1	Engine	1
2	gear box plate	1
3	cushion 6	1
4	screw M6*20	4
5	rubber	1
6	handle cover	1
7	earth auger frame	1
8	screw M8*20	1
9	switch	1
10	Clutch shell	1
11	Circlip 42	1
12	bearing R12	1
13	gear box cover 1	1
14	clutch shell gear shaft	1
15	bearing R10	1
16	Circlip 18	1
17	big gear	1
18	ring 5*12	1
19	small gear shaft	1
20	ring 20	1
21	gear	1
22	gear box gasket	1
23	gear box 6004	1
24	pin 5*10	1
25	gear box cover 2	1
26	screw M6*8	1
27	screw M6*30	1
28	screw M6*50	4
29	seal 20*35*7	1
30	shaft	1
31	Pin 8*45	1
32	driller	1
33	Pin	1

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www.jobsitetools.com

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