

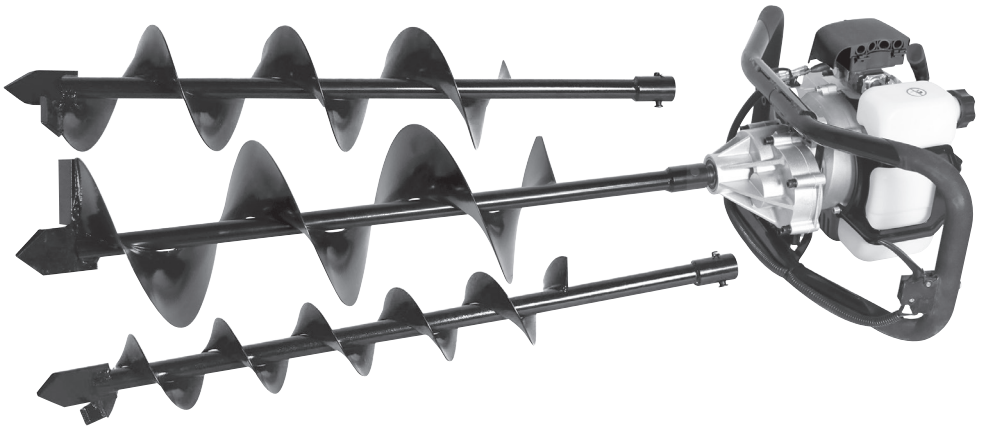
**EN**

Original Instructions  
Version 2

**DRAPER**<sup>®</sup>

# PETROL EARTH AUGER KIT

68294



For your safety, it is essential that these instructions are read and understood in full by the operator before attempting to assemble, operate, adjust or maintain this product.

These are the original product instructions. This document is part of the product; retain it for the life of the product, passing it on to subsequent holders. Read this manual in full before attempting to assemble, operate or maintain this product.

This Draper Tools manual describes the purpose of the product and contains all the necessary information to ensure its correct and safe use. Following all the instructions and guidance in this manual will ensure the safety of both the product and the operator and increase the lifespan of the product.

All photographs and drawings within this manual are supplied by Draper Tools to help illustrate correct operation of the product.

Every effort has been made to ensure the information contained in this manual is accurate. However, Draper Tools reserves the right to amend this document without prior warning. Always use the latest version of the product manual.

## 1.1 Product Reference

**User Manual for:** Petrol Earth Auger Kit

**Stock No:** 68294

**Part No:** GPAUG52-B

## 1.2 Revisions

**Version 1:** January 2021

First release

**Version 2:** February 2023

General content and formatting updates

Addition of safety lanyard instructions

As our manuals are continually updated, always ensure that the latest version is used.

Please visit [drapertools.com/manuals](http://drapertools.com/manuals) for the latest version of this manual and the associated parts list, if applicable.

## 1.3 Understanding the Safety Content of This Manual



**WARNING!** – Situations or actions that may result in personal injury or death.



**CAUTION!** – Situations or actions that may result in damage to the product or surroundings.

**Important:** – Information or instructions of particular importance.

## 1.4 Copyright © Notice

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## 3.1 Intended Use

This product is designed to bore cylindrical holes into soil for the purposes of fencing, bore holes and planting hedges and saplings. This kit includes auger bits of 100mm, 150mm and 200mm in diameter. Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.



**WARNING! This product is not a toy and must be respected.**

Read this manual in full before attempting to assemble, operate or maintain the product and retain it for later use.

## 3.2 Specification

Stock No.	68294
Part No.	GPAUG52-B
Engine:	
Type:	Two-stroke
Max. performance:	1.45kW
Displacement:	52cm <sup>3</sup>
Speed at idle:	3,000min <sup>-1</sup> (rpm)
Clutch engagement speed:	4,500min <sup>-1</sup> (rpm)
Max. speed:	9,000min <sup>-1</sup> (rpm)
Fuel:	
Capacity:	1,200cm <sup>3</sup> (ml)
Type:	E10* (RON 95) or other unleaded petrol
Oil type:	Synthetic two-stroke
Fuel to oil ratio:	25:1
Bit sizes:	
Diameters:	100, 150, 200mm
Length:	800mm
Noise emissions:	
Sound pressure level (LpA):	91.3dB(A)
Uncertainty:	3dB(A)
Sound power level (LWA):	108dB(A)
Uncertainty:	3dB(A)
Guaranteed sound power level:	110 (dB(A)
Vibrations:	
Main handle:	12.201m/s <sup>2</sup>
Auxiliary handle:	13.332m/s <sup>2</sup>
Uncertainty:	1.5m/s <sup>2</sup>

### 3. Product Introduction

Weight:

Motor unit (no fuel):	8.9kg
100mm bit (bit only):	1.76kg
150mm bit (bit only):	2.30kg
200mm bit (bit only):	2.82kg

**Important:** The declared vibration total values and noise emissions values have been measured in accordance with a standard test method and may be used for comparing one tool with another. These values may also be used in a preliminary assessment of exposure.



**WARNING! The vibration and noise emissions during actual use of the product can differ from the declared values depending on the type of work and the material upon which it is used. Before each use, estimate the likely exposure resulting from the actual conditions of use. Take into account all parts of the operation cycle in order to identify any safety measures required to protect the operator.**

\*Draper Tools recommends using an additive or stabiliser with E10 petrol so the fuel can be safely stored in the fuel tank for longer.

**Important:** Read all the Health and Safety instructions before attempting to operate, maintain or repair this product. Non-compliance with these instructions may result in injury or damage to the user or the product.

### 4.1 General Health and Safety Precautions for Agricultural Equipment

- Only personnel who have read and understood this manual in full and are familiar with the operation, safe working techniques and safety features of this machine may operate, adjust or maintain this product.
  - **DO NOT** allow anyone who is unfamiliar with this product or unqualified in its use to operate this machine.
  - This machine is not intended for use by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge unless they have been given supervision or instruction in its use by a person responsible for their safety.
  - Keep this product out of reach of children at all times.
- Observe all standard safety precautions and good practices when working with machines and mechanical drilling tools in an outdoor environment.
- **DO NOT** modify this product in any way and **ONLY** use spare parts supplied by Draper Tools.
- Use this product only in the manner described in this manual.
- **ONLY** use this product with the attachment tools and accessories supplied.
  - **NEVER** use this machine with any other tools or accessories attached.
- Use this product only in exterior and well-ventilated environments.
- Keep your work environment clear and well-lit, with bystanders at a safe distance.
  - Work **ONLY** in daylight or good artificial light.
  - **NEVER** work while children or pets are nearby.
- Before every use, inspect the product and all accessories for broken, cracked, loose or corroded parts and leakages.

**Important:** **DO NOT** use this product if it is damaged or leaking in any way. Contact Draper Tools to discuss repair and replacement options. **DO NOT** use damaged or worn blades.
- **DO NOT** use this product if you suspect that it has been subjected to sharp knocks or it has been dropped.
- Ensure that all safety features are in good working order before **EVERY** use.
  - **DO NOT** use this product if any of the safety features, including the safety lanyard, are missing or faulty, or the machine cannot be switched on and off using the ignition switch.
  - **DO NOT** tamper with or disable any of the safety systems employed by the machine.
  - **DO NOT** operate this tool if the safety lanyard is not connected to your person.
  - **ALWAYS** ensure that all safety labels are visible before use.
- Keep in mind that the operator is responsible for accidents or hazards occurring to other people or their property while using this machine.
- **DO NOT** operate this machine if you are tired or under the influence of alcohol, drugs or other medication.
- Be aware of your surroundings and stay alert to any hazards that may arise that are concealed by the noise of the machine.
- **ALWAYS** ensure that the machine is positioned safely and is unobstructed when starting the engine.
- Keep a firm and secure grip on both handles during use.
  - Grip the machine by the designated insulated areas **ONLY** as the bit blades may come into contact with live wires, which may cause an electric shock.
  - Keep all handles dry and free from grease or other substances that may cause you to lose control of the machine.
- Keep hands, feet and other body parts away from moving parts at all times.
- **DO NOT** overreach and maintain good balance while using the tool.
- **DO NOT** touch the engine or exhaust during or immediately after use.
- **DO NOT** leave the machine running unattended under any circumstances.
- **DO NOT** refuel the machine while it is running.
- Unless an emergency occurs, reduce the throttle during engine shut down before turning off the ignition switch.

- Maintain the machine appropriately and correctly to prevent damage to moving parts and mechanisms.
  - Keep all attachments and fixings tight to ensure the machine is in a safe working condition.
  - Replace worn or damaged parts immediately.
  - Replace faulty silencers.
  - Keep air vents free from dust and debris.
  - **ONLY** have the machine serviced by authorised and suitably qualified personnel.
- Remove all adjustment tools before use.
- **DO NOT** immerse this product in water or subject it to wet conditions.
- **DO NOT** expose this product to frost.
- **ALWAYS** switch off the product, disconnect the spark plug cover and allow the machine to completely stop and cool before performing any adjustment, maintenance or other inspection or transporting the tool.
- Allow the engine to cool before storing it.
- **DO NOT** wield the machine in any way other than that described in this manual.
- Operating this tool is physically demanding; maintain good posture and balance while operating the tool and take regular breaks to prevent injury from strain or fatigue.
- **NEVER** work alone; always work in earshot of someone who can come to your aid in the event of an emergency.
- Thoroughly inspect the area where the tool is to be used before operation.
  - Identify any hidden objects such as wires or power cables that may cause injury or damage if severed by the tool.
  - Identify and remove any obstructions or objects in the intended path of the machine that might be thrown into the air during operation.
- Operate this tool **ONLY** on flat, level ground.
  - **NEVER** operate this tool on sloped ground.
- **NEVER** operate this tool above shoulder height or on a platform or ladder.
- Start the engine carefully, only when the required bit has been installed and the tool is in the correct operating position.
- Before **EVERY** use, test that the bit does **NOT** rotate while the engine is idling.
  - If the bit operates while the engine is idling, contact Draper Tools for support.
- If the tool vibrates abnormally during use, immediately stop the engine, allow it to cool and investigate the cause.
  - **DO NOT** use the tool until the issue has been resolved.
- **DO NOT** allow soil to accumulate on the auger bit blade as this will obstruct the ejection of soil from the hole and may cause the tool to operate heavily.
- To reduce the risks associated with prolonged exposure to vibrations through the handles, avoid operating the machine for longer than necessary and do not use excessive engine speeds.
- **DO NOT** operate the engine in confined spaces where dangerous carbon monoxide fumes can collect.
- **NEVER** transport the tool between positions with the auger bit in motion.
- **NEVER** drain the fuel tank inside.

### 4.2 Additional Safety Information for this Tool

- This product is suitable for drilling into soil **ONLY**. **NEVER** attempt to drill into any other materials using this machine.
- Wear appropriate personal protective equipment:
  - Wear a protective safety helmet to protect from projectile debris and falling materials.
  - Wear safety goggles or a face shield to protect against projectile debris.
  - Wear noise-reductive ear defenders.
  - Wear protective gloves.
  - Wear protective knee shields.
  - Wear slip-resistant protective footwear.
- In addition to personal protective equipment, dress appropriately for the work:
  - Wear durable, close-fitting clothing that will not get tangled or caught in moving parts.
  - Wear substantial full-length trousers and long sleeves.
  - Keep long hair tied back and remove any long or loose items of jewellery before use.
  - **DO NOT** operate this machine while barefoot or wearing sandals.

- Ensure all appropriate safety precautions are observed when transporting the machine:
  - Remove the bit from the tool before transporting it.
  - When transporting the product by hand, maintain a firm grip on both handles and keep the machine steady.
  - When transporting the product in a vehicle, lay the tool and accessories flat and strap them securely in place.**Important:** Drain all fuel and oil from the product before transporting it in a vehicle and ensure that all reservoir caps are tightly sealed. Keep the transportation unit well-ventilated.

**Important:** **ALWAYS** ensure that the machine is switched off and the spark plug cover is disconnected during transportation.

**Important:** To prevent injury, **ALWAYS** mark and secure holes after operation so that they are easily visible.

### 4.3 Health and Safety Information for Machines With a Petrol Engine

 **WARNING!**  
**Petrol is highly flammable.**

- Store fuel in containers specifically designed for this purpose.
- Refuel outdoors and **DO NOT** smoke while refuelling.
- Replace all fuel caps securely after use.
- Add fuel before starting the engine; never remove the cap of the fuel tank or add petrol to the machine while the engine is running or hot.
  - Take care when opening the fuel cap after use as hot vapour may be released from the opening.
- **NEVER** smoke in the vicinity of the machine.
- **NEVER** use this product in environments where there is a risk of explosion.
- If petrol is spilled, **DO NOT** attempt to start the engine; move the machine away from the spillage area and avoid creating any source of ignition until the petrol vapours have dissipated.
- The engine, exhaust and fuel get hot during use.
  - **DO NOT** touch the engine during or immediately after use and allow it to cool before refuelling.
  - **ALWAYS** operate the tool with the exhaust directed away from your body.

- **NEVER** place objects on the engine while it is in use and keep all air vents clear of dust, dirt and other obstructions.
- **NEVER** store the machine with fuel in the tank inside any structure where petrol fumes could reach an open flame or spark.
- To reduce the risk of fire, keep the engine, silencer and petrol storage area free from vegetation and excessive grease.



**WARNING! The machine exhaust emits toxic carbon monoxide: a colourless, odourless gas.**

Breathing exhaust fumes can cause loss of consciousness, permanent respiratory damage and eventually death. **ONLY** operate this machine in a well-ventilated outdoor environment.

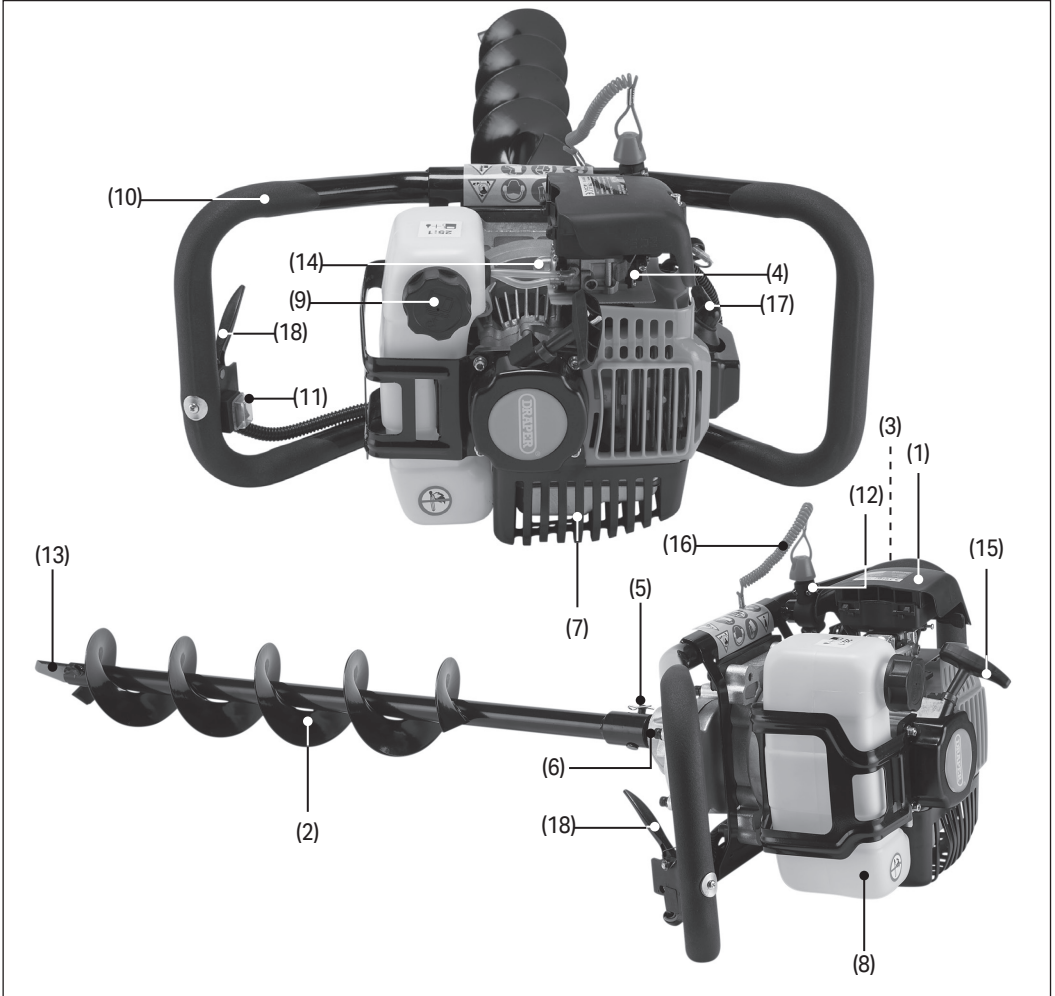
**Important:** E10 petrol is hygroscopic and attracts moisture. Read all the preparation and maintenance information relating to E10 fuel before using it in this machine. Draper Tools recommends using an additive or stabiliser with E10 petrol to extend the period that it can be safely stored in the fuel tank. **ALWAYS** read the label of any additive or stabiliser applied.

### 4.4 Residual Risk

The safety instructions in this manual cannot account for all possible conditions and situations that may occur. Exercise common sense and caution when using this product and protect against any additional conceivable risks.



## 5.1 Product Overview

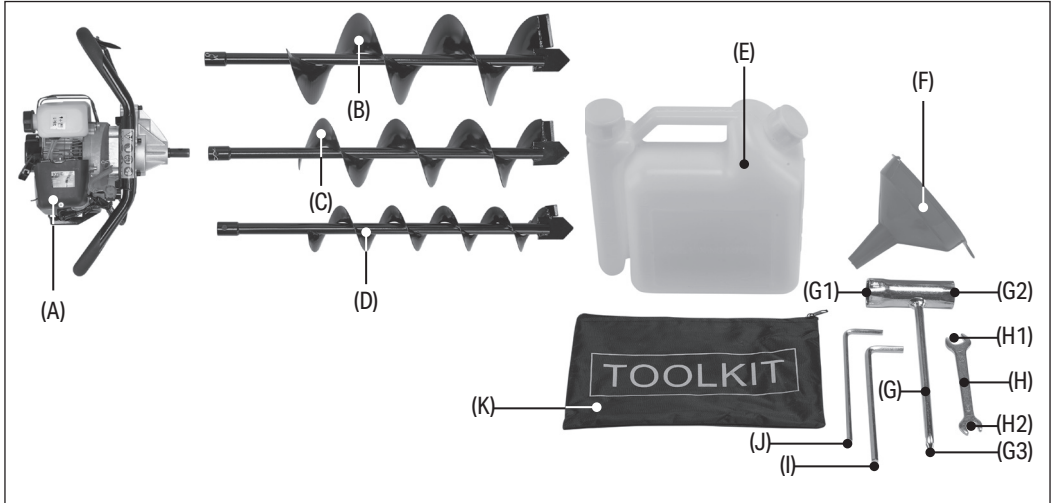


- |                      |                               |
|----------------------|-------------------------------|
| (1) Air filter cover | (10) Handlebars               |
| (2) Auger bit        | (11) Ignition switch          |
| (3) Carburettor      | (12) Lanyard activation point |
| (4) Choke lever      | (13) Pilot drill              |
| (5) Connection pin   | (14) Priming bulb             |
| (6) Drive shaft      | (15) Recoil starter           |
| (7) Exhaust          | (16) Safety wrist lanyard     |
| (8) Fuel tank        | (17) Spark plug cover         |
| (9) Fuel tank cap    | (18) Throttle lever           |

## 5.2 What's in the Box?

Carefully remove the product from the packaging and examine it for any signs of damage that may have occurred during shipment.

Before assembling the product, lay the contents out and check them against the parts shown below. If any part is damaged or missing, do not attempt to use the product. Please contact the Draper Helpline; contact details can be found at the back of this manual.



- (A) 1 x Engine unit
- (B) 1 x Ø 200mm bit
- (C) 1 x Ø 150mm bit
- (D) 1 x Ø 100mm bit
- (E) 1 x Two-stroke mixing bottle
- (F) 1 x Funnel
- (G) 1 x Spanner driver
  - (G1) 19mm (M12) box spanner
  - (G2) 17mm (M10) box spanner
  - (G3) PH-type screwdriver

- (H) 1 x Combination spanner
  - (H1) 10mm (M6) spanner
  - (H2) 8mm (M5) spanner
- (I) 1 x 5mm hex key
- (J) 1 x 4mm hex key
- (K) 1 x Tool bag

## 5.3 Packaging

Keep the product packaging for the duration of the warranty period for reference should the product need to be returned for repair.



**WARNING! Keep packaging materials out of reach of children. Dispose of packaging correctly and responsibly and in accordance with local regulations.**

Please visit [drapertools.com](http://drapertools.com) for our full range of accessories and consumables.

# 6. Preparation Instructions

**Important:** Read all the Health and Safety guidance for use of petrol as a fuel before filling or otherwise preparing this product.

## 6.1 Fuelling the Auger

**CAUTION!** This machine is shipped **WITHOUT** fuel. Check the fuel level before **EVERY** use and top up as appropriate. **NEVER** attempt to run the engine on an empty fuel tank.

**Important: ALWAYS** ensure that the correct type and mixture of fuel and oil is used. Damage caused by failure to add fuel or by the use of incorrect or poor-quality fuel is not covered by your warranty.

The engine on this machine requires a mixture of petrol and oil to run. The mixture must contain the following components and quantities:

Component	Quantity	Notes
Petrol	25 parts	Only use fresh, clean and good-quality <b>unleaded</b> automotive petrol.
Oil	1 part	Only use high-quality two-stroke <b>synthetic</b> oil. <b>DO NOT</b> use any other type of oil, including engine oil, as this will permanently damage the engine.

**ALWAYS** use automotive petrol. Draper Tools recommends E10 (95 RON) automotive fuel, with an appropriate additive or stabiliser, for use with this product.

**CAUTION!** E10 petrol is hygroscopic and attracts moisture, which may damage the fuel system if stored in the product for more than four weeks. See *Using E10 Petrol* below for guidance.

**WARNING!** ALWAYS mix fuel in a well-ventilated area away from sources of ignition. Store fuel only for short periods, away from direct sunlight and heat sources, and only in containers specifically designed for that purpose. Avoid prolonged contact with the skin and inhalation of petrol vapour.

**Important:** The engine unit **MUST** be in an upright position when fuel is added.

To fuel the machine:

1. Disconnect the spark plug cover (17).

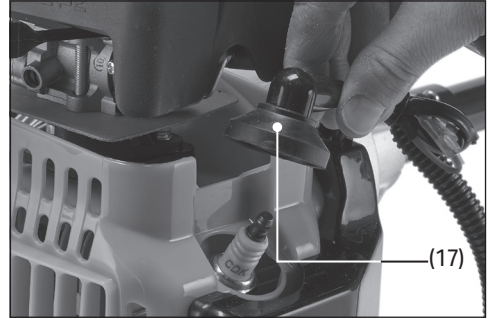


Fig. 1

2. Mix the fuel and oil:

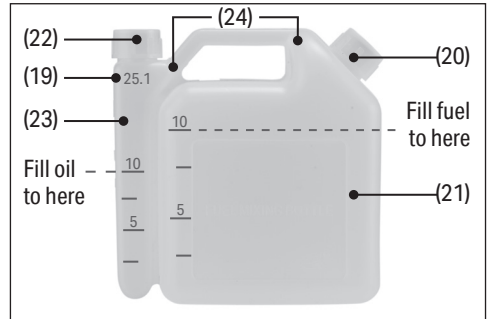


Fig. 2

- a. Holding the two-stroke mixing bottle with the **25:1** marking (19) visible, remove the bottle fuel cap (20).
- b. Pour unleaded petrol through the fuel cap opening until the **10** level mark on the main reservoir (21) is reached.
- c. Remove the bottle oil cap (22) and pour two-stroke oil through the opening until the **10** level mark on the ancillary reservoir (23) is reached.
- d. Ensure that both caps are tightly fitted and tip the mixing bottle to allow all of the oil to run into the main reservoir through the openings at the top of the bottle (24).
- e. Shake the bottle gently to thoroughly mix the fuel and oil.

**CAUTION!** ALWAYS use the 25:1 scale on the ancillary reservoir to measure the oil. Using the incorrect mixture may cause permanent damage to the engine. Damage caused in this manner is not covered by your warranty.

**Important:** Only mix as much fuel as is necessary for the operation as fuel quality degrades rapidly. When measuring different amounts of fuel, fill the ancillary reservoir with oil to the corresponding level mark.

3. Twist the fuel tank cap (9) anticlockwise to remove it and allow it to hang clear of the opening.

**WARNING!** If the tool has been recently used, hot steam may vent from the fuel tank outlet. Take care when opening the fuel tank.

4. Using the funnel (F), carefully pour the fuel mixture into the fuel tank so that the level is just below the filler neck.  
The fuel tank should accommodate a little more than one full mixture from the two-stroke mixing bottle.



Fig. 3

**CAUTION!** DO NOT overfill the fuel tank as this may damage the engine. NEVER allow dust, dirt, water or dirty fuel to enter the fuel tank. Clean up any spillages IMMEDIATELY.

5. Reattach the fuel cap, ensuring it is properly fitted and securely tightened.
6. Reconnect the spark plug cover when the machine is ready for use.

A 25:1 ratio can alternatively be considered as adding 40ml of oil to 1L of fuel.

### Using E10 Petrol

All Draper petrol products are compatible with E10 petrol. However, due to the increased ethanol level, E10 petrol is hygroscopic: this means that it attracts and mixes with water from the air, which accumulates in the engine and the petrol deteriorates more quickly. If E10 petrol is stored in a machine's fuel tank for extended periods, this build-up of water can form a corrosive gum that rusts the fuel system from the inside.

Draper Tools recommends the use of petrol additives or stabilisers when using E10 petrol. Additives and stabilisers are widely available and can extend the length of time that E10 petrol can be safely stored in a product fuel tank.

The impact of additives or stabilisers on the lifespan of the fuel varies with each product and will deteriorate over time – always read the label. E10 petrol should not remain in the fuel tank for more than four weeks without an additive or stabiliser.

Even where additives or stabilisers are used, Draper Tools recommends that E10 fuel is drained from the fuel tank every three to four weeks to reduce the risk of damage to the product. The fuel must be drained from the fuel tank within the time limit specified by any additives or stabilisers added to the fuel. If the machine will not be used for longer than this time, drain it before putting it into storage.

After draining the fuel tank, always run the engine until the last of the fuel in the system is spent and drain the float bowl when the engine is cool.

E10 petrol should be used within 30 days of purchase.

Some petrol brands contain other quantities of ethanol. **DO NOT** use fuels with more than 10% ethanol in Draper products.

Always store and dispose of fuels responsibly and in accordance with local regulations.

## 6.2 Attaching the Auger Bit

**Important: DO NOT** connect any auger bit to this tool that has not been supplied with this product. Other auger bits may be unsuitable for the engine or fit incorrectly and result in injury or cause damage to the tool.

**⚠ WARNING! Never use an auger bit if the R-pin or locking bar is missing, damaged or significantly corroded.**

1. Remove the R-pin (25) from the locking bar (26) and slide the locking bar away from the auger bit.

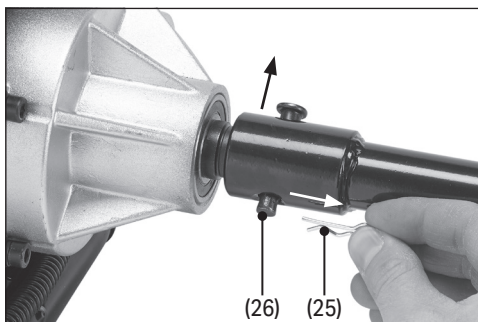


Fig. 4

2. Install the auger bit onto the engine unit drive shaft (6) and align the holes.

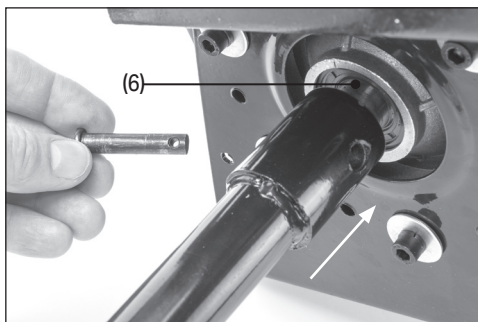



Fig. 5

3. Insert the locking pin and secure it in place with the R-pin.
4. Pull outwards on the auger bit to ensure that it is securely held in place.


**Important:** Before operating this product, read and understand all the safety instructions listed in this manual.

 **WARNING! DO NOT** start the machine until the auger bit and safety lanyard have been installed. This machine must be operated with both hands (one on each handle) at all times.

 **WARNING!** Using this tool can pose a danger to wildlife. Before attempting to use the auger, check the area – particularly in long grass and under bushes – for signs of life and responsibly relocate any creatures found there if necessary. Not all wildlife will be deterred by the noise of this machine alone.

## 7.1 The Safety Wrist Lanyard

The safety wrist lanyard (16) must be installed in order to use this product and acts as a safety cut-off should you lose control of the tool.

 **WARNING! DO NOT** use this tool if the safety wrist lanyard is damaged or weakened. If the lanyard cord breaks, it will not cut power to the engine.

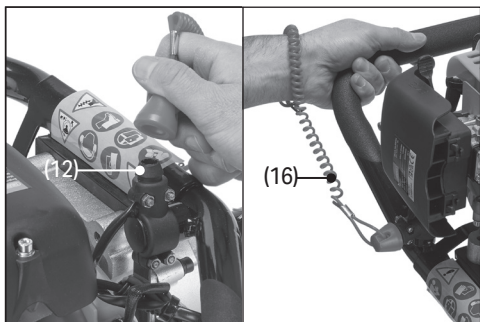



Fig. 6

The lanyard is pre-installed onto the engine unit before shipment. If it has been removed, push the cup end of the lanyard firmly onto the lanyard activation point (12). Wrap the other end of the lanyard around your wrist and use the clip to secure it. If you lose your grip on the tool during operation, the lanyard cup will be pulled from the engine unit and stop the tool, allowing you to regain control safely.


**Important:** If the safety wrist lanyard is not installed, the auger will **NOT** operate.

## 7.2 Starting the Engine

 **CAUTION!** This machine is **NOT** shipped with fuel or oil. **DO NOT** attempt to start the engine until an appropriate mix of fuel and oil has been added to the tool.

 **WARNING! DO NOT** start this tool until the appropriate auger bit has been securely installed. Read all the safety and operation instructions in this manual before use.

**Important:** **DO NOT** start the machine until it is in its operating position at the location to be drilled. **NEVER** travel with the machine switched on.

 **WARNING! DO NOT** start this tool unless the safety wrist lanyard is correctly installed onto the engine unit and is secured around your wrist. Failure to connect the lanyard to your person disables one of the safety features of this tool and is prohibited.

### Performing a Cold Start

1. Ensure that the spark plug cover (17) is connected and move the ignition switch (11) into the on (I) position.

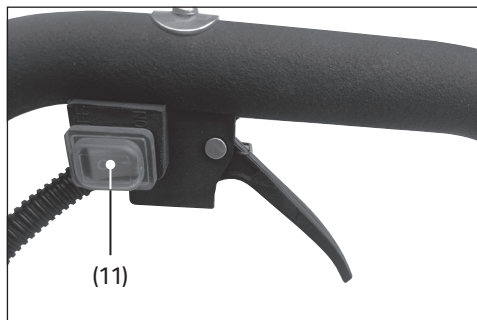


Fig. 7

# 7. Operating Instructions

- Slide the choke lever (4) to the closed (I) position.

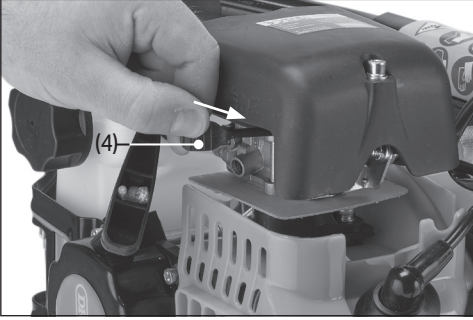


Fig. 8

- Press the priming bulb around six times until fuel can be seen flowing through the clear hose from the fuel tank (8) to the carburettor (3).



Fig. 9

**CAUTION!** Over-priming the engine will cause it to be flooded with too much fuel, which may immerse the spark plug and prevent the engine from starting. The engine will smell strongly of fuel if this occurs.

- Slowly pull on the recoil starter (15) until resistance is felt, then pull it out rapidly.

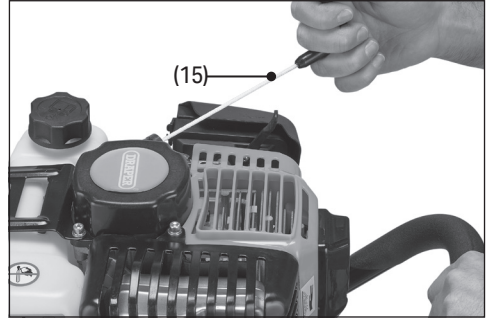


Fig. 10

**CAUTION!** DO NOT attempt to start the engine when the recoil starter is fully retracted. DO NOT allow the recoil starter to snap back against the engine. Return it gently to prevent damage to the starter.

- Do this several times until the engine starts.
- Allow the engine to run for a few seconds, then open the choke slightly.
- After a further few seconds, move the choke lever fully to the open (II) position.
- Gently press the throttle lever (18) to engage the drive shaft, then increase pressure on the throttle lever to start the operation.

## Performing a Warm Start

- Ensure that the spark plug cover (17) is connected and move the ignition switch (11) into the on (I) position.

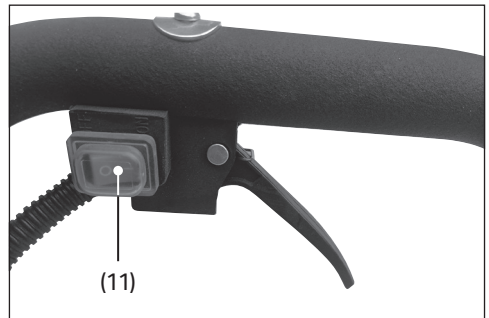


Fig. 11



- Slide the choke lever (4) to the open (I+I) position.

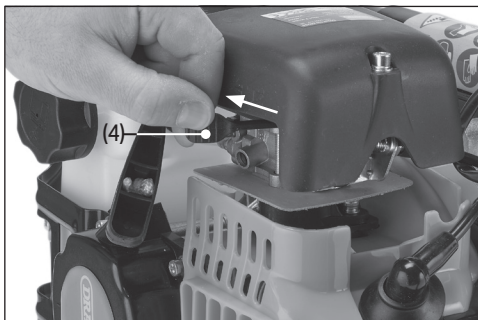


Fig. 12

- Slowly pull on the recoil starter (15) until resistance is felt, then pull it out rapidly.

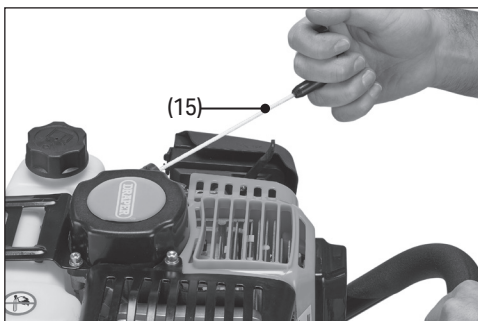


Fig. 13

- CAUTION!** DO NOT attempt to start the engine when the recoil starter is fully retracted. DO NOT allow the recoil starter to snap back against the engine. Return it gently to prevent damage to the starter.

- Do this several times until the engine starts. If the engine does not start after the fifth attempt during a warm start, attempt a cold start.
- Allow a few seconds for the engine to reach its working temperature, then gently press the throttle lever (18) to engage the drive shaft.
- Increase pressure on the throttle lever to begin the operation.

**Important:** If the auger bit rotates while the engine is idling, switch off the engine immediately and contact Draper Tools for support.

- CAUTION!** The internal components of the engine will undergo a bedding-in period during the first few uses.

For the first six tanks of fuel, avoid running the engine at high revolutions as the stress during this bedding-in period may cause damage to the engine. The clutch may also slip more frequently during this period.

## 7.3 Notes on Use

During operation, hold the earth auger in a vertical position and grip it firmly with both hands at all times. Stand comfortably with your legs slightly apart and the auger centrally in front of you to maintain a stable and well-balanced position. Ensure that your legs and body stay clear of the drilling area.

Position the auger engine unit so that the exhaust (7) is directed away from you. This also ensures that, should the auger bit catch in the soil, the engine recoil will pull the throttle lever out of your grip and the bit will stop turning. Brace yourself against sudden recoil caused by contact with hidden rocks, roots and other debris beneath the surface.

Apply firm downward pressure onto the handlebars throughout the operation, but **DO NOT** force the tool; let the tool do the work.

Draper Tools recommends beginning the operation using half-throttle speed and gradually increasing pressure on the throttle lever (18), particularly when boring deeper holes.

**Important: ALWAYS** mark and secure holes after operation so that they are easily visible to prevent injury to others.



**Important:** Maintenance and repairs should be carried out **ONLY** by authorised and suitably qualified personnel.

**WARNING!** ALWAYS switch off the engine, disconnect the spark plug cover and allow the machine to cool before maintaining this product. Remove any auger bit from the engine unit before performing any maintenance.

**WARNING!** If the engine must be run for testing, ensure that this is carried out in a well-ventilated environment that allows carbon monoxide from the exhaust to dissipate quickly.

Regular and thorough maintenance will contribute to an extended life of the product. Poor maintenance can lead to reduced performance and rapid deterioration of the engine and blades.

## 8.1 General Maintenance

- Keep all air vents clean and free from obstructions at all times.
- Clean the machine with a damp cloth **ONLY**. **Important:** **DO NOT** use solvents as this may damage the plastic parts of the machine.
- Use **ONLY** spare parts supplied by Draper Tools.
- Keep all auger bits free from debris and clean them after every use.
  - Wear protective gloves while maintaining the auger bits.
  - Use a brush or other tool to remove debris from cutting parts; **NEVER** use your bare hands.
- Replace auger bits when they became damaged or excessively worn.

## 8.2 Draining the Fuel

**Important:** Read all the Health and Safety guidance for the use of petrol as a fuel before filling or draining this product.

**WARNING!** **NEVER** drain the fuel tank indoors.

1. Ensure that the ignition switch (11) is in the off (O) position and the spark plug cover (17) is disconnected.
2. Remove the fuel tank cap (9) slowly and tip the engine unit backwards to allow the fuel to drain into a suitable container.

**WARNING!** If the tool has been recently used, hot steam may vent from the fuel tank outlet. Take care when opening the fuel tank.

3. Reattach the fuel tank cap securely and wipe up any spillages.
4. Reconnect the spark plug cover and start the engine; see **7.2 Starting the Engine**.
5. Allow the engine to run until it cuts out; this exhausts any fuel remaining in the carburettor.

## 8.3 Air Filter Care

Clean the air filter chamber and element regularly to ensure consistent airflow into the carburettor. Increase the frequency of cleaning when working in dusty environments.

**WARNING!** **NEVER** use petrol or solvents to clean the air filter elements as this may result in a fire when the machine is next used.

**CAUTION!** **NEVER** run the machine without the air filter elements in place as this may cause the engine to degrade rapidly.

1. Ensure that the choke lever (4) is in the closed position to prevent any debris from entering the carburettor.
2. Use the 4mm hex key (J) to loosen and remove the socket bolt (27) and washers that secure the air filter cover (1) in place.

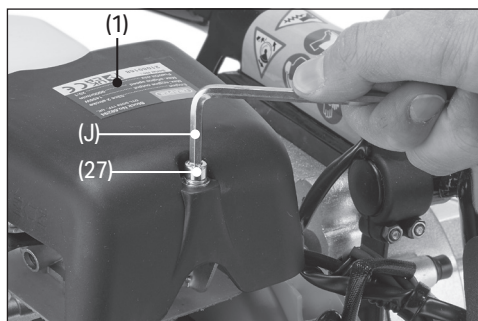


Fig. 14

**Important:** Ensure that the washer and spring washer remain in the correct positions on the bolt.

3. Open the air filter housing and remove the foam element; check it for holes, tears and obstructions.

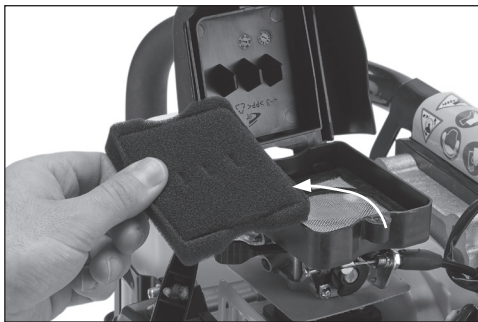


Fig. 15

**Important:** If the foam element is damaged, replace it with a new one. **DO NOT** use the machine if the air filter is damaged.

4. Wash the element in warm soapy water and allow it to dry thoroughly.  
**Important:** **DO NOT** use solvents to clean the element.
5. Clean the compartment and covers of any dust, dirt or other obstructions.
6. Reassemble the air filter and screw in the socket bolt and washers to secure the housing back in place.

### 8.4 Spark Plug Care

Ensure that the spark plug is clean and correctly gapped. The spark plug may become contaminated over time if the machine is run with part-throttle for prolonged periods or the fuel mixture contains too much oil.

**Important:** Replace the spark plug after every 60 hours of use or at least once a year. **ONLY** use L7TC or similar compatible spark plugs with the same heat range.

1. Remove the spark plug cover (17).



Fig. 16

**Important:** **DO NOT** use tools to remove the cover as it may damage the HT lead.

2. Use the M12 box spanner (G1) to loosen and remove the spark plug from the socket.



Fig. 17

3. Visually inspect the spark plug and replace it if the ceramic insulator is cracked or chipped.
4. Measure the spark plug gap using a feeler gauge (not supplied) and correct as appropriate by gently bending the electrode into position.  
**Important:** The gap should be **0.6-0.7mm**.

5. Attach the spark plug washer and thread the plug into place by hand.

**Important:** If mounting a new spark plug, use the spark plug wrench to screw the spark plug an additional half rotation after hand-tightening to the point that the washer is compressed. If mounting an old spark plug, screw no more than up to an additional quarter rotation as appropriate.

6. Replace the spark plug cover securely.



**CAUTION!** The spark plug **MUST** be securely tightened. Loose spark plugs can become very hot and cause damage to the engine. NEVER use a spark plug with a heat range that is not appropriate for the machine in which it is used.

## 8.5 Replacing the Fuel Filter

A small fuel filter is installed inside the fuel tank (8) to ensure that the feed of fuel into the carburettor remains clean. This filter must be checked regularly and replaced when it becomes clogged.

**Important:** Wear protective gloves to protect your hands from the fuel.

1. Completely drain the fuel from the fuel tank; see **8.2 Draining the Fuel**.
2. Gently pull on the fuel tank cap (9) to draw the spring clip out of the tank.

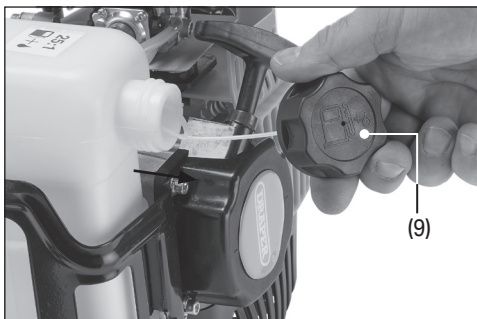


Fig. 18

3. Tilt the engine so that the fuel tank opening is at the lowest point and firmly shake the unit to allow the filter to fall within reach. If the filter does not fall towards the opening, the fuel pickup line can be manoeuvred by reaching inside the fuel tank.

**Important:** Be wary of dripping fuel when reaching inside the fuel tank to remove the filter.

4. Gently pull the filter out of the fuel tank opening.



Fig. 19

5. Without letting go of the fuel pickup line (28), detach the filter from the end of the tube.
6. While still holding the fuel pickup line, insert a new filter onto the tube and insert it back into the fuel tank.
7. Push the cap spring clip back into the fuel tank and tighten the cap in place.

## 8.6 Storing the Product

**Important:** ALWAYS ensure that the engine has completely cooled before storing the machine.

- Prepare the machine correctly for storage:
  - Ensure that the ignition switch is in the off (O) position.
  - Disconnect the spark plug cover (17).
  - Drain the fuel (see **8.2**).
  - Remove, clean and dry the auger bits.
  - Tighten all reservoir caps and leakage points.
  - Cover the machine with a plastic sheet to protect it against dust and moisture.
- Store the machine and attachments in a dry and dust-free environment, out of reach of children.
- Store the machine at a temperature of 0–30°.
- Start the engine at periodic intervals to prevent seizure within the engine and driveshaft.

If the machine is to be stored for a prolonged period, ensure that the engine cylinder is sufficiently lubricated to prevent it from seizing:

1. Remove the spark plug; see **8.4 Spark Plug Care**.
2. Pour a few drops of SAE 5W-30 oil into the socket.
3. Pull the recoil starter (15) slowly to distribute the oil.
4. Return the spark plug securely to the socket.
5. When restarting after storage:
  - a. Remove the spark plug.
  - b. Hold a cloth around the spark plug socket opening.  
**Important: DO NOT** smother or completely cover the opening.
  - c. Pull on the recoil starter several times and catch any ejected oil using the cloth.  
Do this until no more oil is ejected from the opening.
  - d. Return the spark plug securely to the socket
  - e. Start the engine in the usual way;  
see **7.2 Starting the Engine**.

## 8.7 Troubleshooting

Problem	Possible Cause	Remedy
The engine will not start.	The safety wrist lanyard is not attached to the engine unit.	Connect the lanyard cup to the activation point (see <b>7.1</b> ).
	The ignition switch is in the off position.	Press the ignition switch to the on position.
	The fuel level is too low.	Mix an appropriate batch of fuel and top up the fuel tank (see <b>6.1</b> ).
	The engine has not been primed.	Press the priming bulb six times until fuel can be seen in the fuel lines.
	The fuel has been mixed incorrectly or stored for too long.	Drain the fuel (see <b>8.2</b> ) then mix a new batch of fuel and refill the fuel tank (see <b>6.1</b> ).
	The spark plug electrode has been fouled or the gap is set incorrectly.	Repair or replace the spark plug.
	The spark plug H.T. lead is not connected correctly.	Press the spark plug cover on firmly and ensure that the housing is not interfering with the connection.
	The choke is set incorrectly for the starting conditions.	Ensure that the choke lever is set in the open position for a warm start or closed for a cold start.
	The air filter is clogged.	Clean or replace the air filter (see <b>8.3</b> ).
The engine will not start after refuelling.	The engine has not been primed.	Press the priming bulb six times until fuel can be seen in the fuel lines.
	The engine has been over-primed and has flooded.	Remove the spark plug (see <b>8.4</b> ) and dry the electrode of fuel. Pull the recoil starter several times without the spark plug fitted, then refit the spark plug and try again.
	The fuel filter is clogged.	Replace the fuel filter (see <b>8.5</b> ).
The engine stutters or runs roughly after starting.	The choke lever is set in the closed position.	Move the choke lever to the open position and retry.
	Parts of the engine require maintenance.	Clean or replace the air filter, fuel filter and spark plug.
	The fuel has been stored for too long and has deteriorated.	Drain the fuel (see <b>8.2</b> ) and refill the fuel tank as appropriate (see <b>6.1</b> ).

## 8. Maintenance and Troubleshooting

Problem	Possible Cause	Remedy
The engine stops automatically during operation.	The fuel level has dropped too low.	Check and top up the fuel tank (see <b>6.1</b> ).
	The auger bit has caught in the soil.	Switch off the auger, remove it from the hole and check for obstructions.
Heavy blue smoke is emitted from the exhaust.	The fuel is mixed incorrectly.	Drain the fuel (see <b>8.2</b> ) and refill the fuel tank with the correct mixture of petrol and oil (see <b>6.1</b> ).
The engine runs with low power.	Parts of the engine require maintenance.	Clean or replace the air filter, fuel filter and spark plug.
	The choke is closed.	Open the choke after the engine has run for a few seconds.
	The engine speed is too low.	Squeeze the throttle to increase the engine speed.
	The carburettor is poorly adjusted or badly set.	Contact Draper Tools for support.
	The transmission is broken.	
	The clutch shoes are worn.	
The machine is leaking oil.	The engine lower seat is worn.	
	An O-ring seal is damaged or failing.	Replace the faulty part; contact Draper Tools for support.
	There are loose bolts in the engine.	Tighten all bolts and fittings.
Performance is unsatisfactory.	The auger bit is damaged or excessively worn.	Replace the auger bit. <b>DO NOT</b> continue to use the tool.
	The toughness of the ground exceeds the capability of the machine.	Use an alternative method to drill the material.
The auger bit rotates while the engine is idling.	The engine idle speed is too high.	Contact Draper Tools for support.
The auger blade jumps.	The auger bit is damaged or excessively worn.	Replace the auger bit. <b>DO NOT</b> continue to use the tool.
	The auger bit has encountered an obstacle.	Switch off the auger, remove it from the hole and check for obstructions.
The auger cuts slowly.	The blade edges are overly worn.	Have the blades sharpened or replaced.
	The pilot drill is damaged.	Replace the pilot drill or auger bit.

## 9. Spares, Returns and Disposal

For spare parts, servicing, and repair and replacement options, please contact the Draper Tools Product Helpline for details of your nearest authorised agent.

Draper Tools will endeavour to hold any spare parts, if applicable, for seven years from the date that it sells the final matching stock item.

Any servicing or repairs carried out by unauthorised personnel or installation of spare parts not supplied by Draper Tools will invalidate your warranty.

**Important:** For safety, **ALWAYS** drain and clean the product of any oil, fuel, chemicals or other substances before returning it to Draper Tools or its authorised agent. Store these materials in suitable containers and dispose of them in accordance with local regulations. Draper Tools and its agents cannot be responsible for the disposal of these substances.

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

- **DO NOT** dispose of this product with domestic waste; most local authorities provide appropriate recycling facilities.
- **DO NOT** burn or incinerate this product as this may release toxic or corrosive substances.
- Dispose of oil and fuel separately and in accordance with local regulations; **DO NOT** abandon them in the environment.



Draper Tools products are carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, return the complete tool to your nearest distributor or contact Draper Tools directly. Contact information can be found at the back of this manual.

Proof of purchase must be provided.

If, upon inspection, it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This warranty period covers parts and labour for 12 months from the date of purchase. Where tools have been hired out, the warranty period covers 90 days from the date of purchase.

This warranty does not apply to any consumable parts, batteries or normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper Tools repair agent.

In all cases, to make a claim for faulty workmanship or materials within the standard warranty period, please contact or return the product to the place of purchase. Proof of purchase may be required.

If the place of purchase is no longer trading or if you experience any difficulties with your warranty, please contact Customer Services with the product details and your proof of purchase. Contact details can be found at the back of this manual.

If the tool is not covered by the terms of this warranty, repairs and carriage charges will be quoted and charged accordingly.

This warranty supersedes any other guarantees expressed or implied and variations of its terms are not authorised.

Your Draper Tools guarantee is not effective until you can produce, upon request, a dated receipt or invoice to verify your purchase within the guarantee period.

Please note that this warranty is an additional benefit and does not affect your statutory rights.

### **Draper Tools Limited**



# 11. Explanation of Symbols



Read the instruction manual



WARNING!



WARNING! Risk of danger to wildlife



Do not incinerate or throw onto fire



Do not abandon in the environment



Wear a protective helmet



Wear suitable eye and face protection



Wear ear defenders



Wear protective gloves



Wear protective footwear



Beware of flying debris



Protect feet from risk of injury



Correct fuel to two-stroke oil mixture ratio



Keep away from sources of ignition



Guaranteed sound power level



Engine displacement



Max. performance



Max. performance



Fuel tank capacity



Net weight



WEEE-

Waste Electrical & Electronic Equipment

Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish



UK Conformity Assessed



European Conformity





## Contact Details

### **Draper Tools**

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Please contact the Draper Tools Product Helpline for repair and servicing enquiries.