ToolShed TSPHB5 Post Hole Borer 51cc With Auger Instruction Manual

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TSPHB5

www.thetoolshed.co.nz

Thank You
For the purchase of this ToolShed product. We try our hardest to supply customers like you with the best quality products available, at the best price possible. We cant wait to continue working together in the future.

Please contact us for any servicing, replacement parts, or questions you might have about your ToolShed product by visiting our website, or calling: 0800 948 665.

PRODUCT DETAILS

Product Mode: l ToolShed Petrol Powered Post Hole Borer 51CC with 200mm Auger

Product Code: TSPHB5

DISTRIBUTED BY:

Note:
This manual is for your reference only. Due to the continuous improvement of the ToolShed products, changes may be made at any time without obligation or notice.

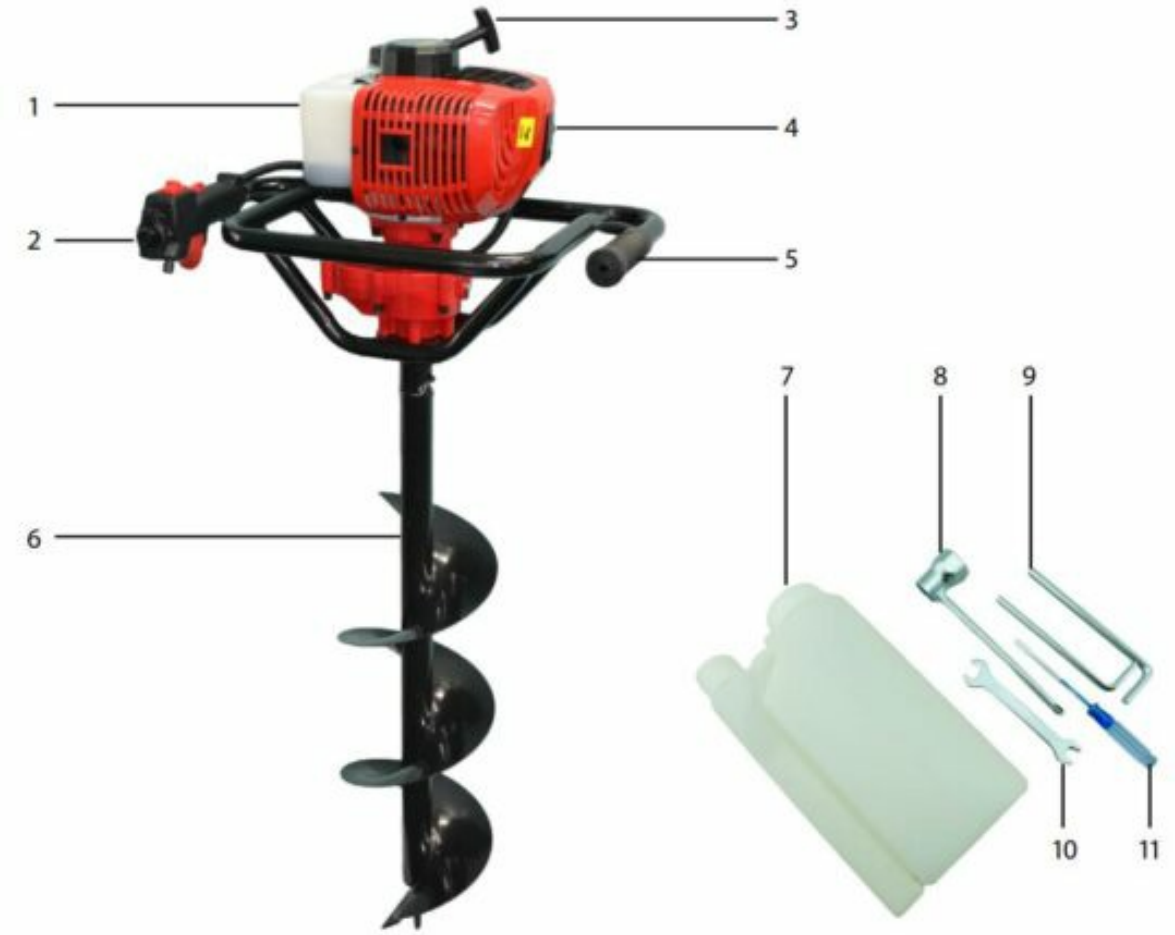
Warranty:
This product may be covered under The ToolShed warranty. For more information, see our Terms & Conditions at www.thetoolshed.co.nz

SPECIFICATIONS

CC Rating	51.7 cc/rev
Drive Shaft Capacity	Up to 200mm Ø Maximum
Engine Type	2-Stroke Single Cylinder Petrol Engine
Fuel Tank Capacity	1.2 Litre
Fuel Mixture	25:1 (Petrol:Oil)
Gear Ratio	34:1
Machine Weight	10 KG
Auger Weight	2 KG

Note:
2-Stroke Oil mix only with a mix of 25-to-1 is to be used in this engine.

PRODUCT IDENTIFICATION



1 Fuel Tank
2 Trottle Switch
3 Pull Start Cord
4 Engine
5 Handle
6 200mm Auger (Supplied)
7 Fuel Mixing Bottle
8 Spark Plug Spanner
9 Allen Keys
10 Double Open-End Spanner
11 Phillips Head Screwdriver

SAFETY GUIDELINES

WARNING

READ ALL SAFETY WARNINGS & INSTRUCTIONS. Failure to follow instructions and warnings could lead to serious injury, electric shock, or fire.

Work Area Safety

- Ensure that your work area is kept well lit and clean. Lack of visibility and clutter greatly increase the risk of accident when using tools.
- Keep bystanders, pets, and children clear when operating a power tool or machine.
  They can cause distraction or risk injury to themselves.
- Ensure you are not operating the power tool or machinery in the presence of dust, liquids, flammable gases, or anything that creates an explosive atmosphere.
  Power tools and machinery can create sparks which can lead to ignition and fire hazards in working environments.

Personal Safety

- Always wear personal protective equipment (PPE). Eye protection, ear protection, dust masks, and other protective equipment will help to reduce the risk of personal injury or long-term illnesses.
- Dress appropriately. DO NOT wear loose clothing that can get caught in moving parts. Keep hair, loose clothing, jewellery, and anything else that could be of risk, away from moving parts in the machine, or they could be caught therein.
- Always remain alert and DO NOT operate power tools or machinery under the influence of any substances like alcohol or drugs, including prescription medications. Lack of focus could lead to injury or accident while operating these power tools and machinery.
- Always ensure proper footing and balance. Overreaching can lead to slipping and falling which can result in injury or accident.
- Ensure the power switch is in the OFF position before connecting any battery, or power source to the power tool or machinery. This can cause injury as tools and machinery can suddenly fire incidentally when live, causing accidents.
- Use all provided dust collection and extraction attachments, if included. This equipment, along with the use of PPE dust masks, can help keep you safe from dust, and keep your work site clear from hazards.
- Ensure loose parts such as wrenches or adjusting keys are removed before starting the power tool or machinery.

Power Tool & Machinery Use & Care

- Use the correct tool for the job. Forcing a tool to do a job it was not designed for increases the risk of accident or injury.
- Disconnect tools and machinery from power, or remove batteries before making any changes or adjustments, or before storing the tools and machinery.
  This reduces or removes the risk of a power connection that causes the tool or machinery to accidentally fire, which can help prevent injury or accident.
- Check the general condition of the power tool for damage or any problems that could affect the way the tool or machine works. An unrepaired tool or machine can lead to accident and injury. Only have your tool or machine repaired with genuine parts from The ToolShed.
- Only use the power tool and machinery with genuine parts or accessories that aredesigned to be used with the power tool and machinery. Failure to do so could result in accident or injury or damage your tool or machinery.
- Store your tool or machinery out of reach of children, and away from untrained personnel when not in use. Use by somebody untrained, or a child, could lead to accident or serious injury.

Fuel & Engine Safety

- Engine exhaust contains carbon monoxide, a colourless, odourless, poison gas. Breathing carbon monoxide will cause nausea, dizziness, fainting or death. If you start to feel dizzy or weak, get fresh air immediately.

 WARNING

Operate the machinery outdoors only in a well-ventilated area and point the exhaust away from you.

- DO NOT operate the machine inside any building, including garages, basements, crawlspaces and sheds, enclosure, or compartment, including the storage compartment of a recreational vehicle.
- DO NOT allow exhaust fumes to enter a confined area through windows, doors, vents, or other openings.
- NEVER use inside a home or garage, EVEN IF doors and windows are open. ONLY use OUTSIDE and far away from windows, doors, and vents

 WARNING

Using an engine indoors CAN KILL YOU IN MINUTES. Engine exhaust contains Carbon Monoxide. This is a poison you cannot see or smell.

Gasoline & Vapours

 DANGER

GASOLINE AND GASOLINE VAPOURS ARE HIGHLY FLAMMABLE AND EXPLOSIVE. Fire or explosion can cause severe burns or death.

- Gasoline is highly flammable and explosive.
- Gasoline can cause a fire or explosion if ignited.
- Gasoline is a liquid fuel, but its vapours can ignite.
- Gasoline is a skin irritant and needs to be cleaned up immediately if spilled on skin or clothes.
- Gasoline has a distinctive odour; this will help detect potential leaks quickly.
- In any petroleum gas fire, you should not attempt to extinguish the flames unless it can be done in such a way by turning the fuel supply valve OFF. This is because if a fire is extinguished and a supply of fuel is not turned OFF, then an explosion hazard could be created.
- Never fill the gas tank to capacity as gasoline needs room to expand if temperature rises.
- Never use gasoline that is stale, contaminated, or mixed. Avoid getting dirt or water in the fuel tank.

When Adding or Removing Gasoline

- DO NOT light or smoke cigarettes.
- Turn the engine off and let it cool for at least two minutes before removing the gasoline cap. Loosen the cap slowly to relieve pressure in the tank.

- Only fill or drain gasoline outdoors in a well-ventilated area.
- DO NOT pump gasoline directly into the engine at the gas station. Use an approved container to transfer fuel to the engine.
- DO NOT overfill the gasoline tank.
- Always keep gasoline away from sparks, open flames, pilot lights, heat, and other sources of ignition.
- DO NOT refill the fuel tank while the engine is running or while the engine is still hot.
- When spills of fuel or oil occur, they must be cleaned up immediately. Dispose of fluids and cleaning materials as per local regulations.

When Starting the Engine

- DO NOT attempt to start a damaged engine.
- Make certain that the gasoline cap, air filter, spark plug, fuel lines, and exhaust system are properly in place.
- Allow spilled gasoline to evaporate fully before attempting to start the engine.
- Make certain that the water pump is resting firmly on level ground.
- Spark from a removed spark plug wire can result in fire or electrical shock.

Service

- Have your tools and machinery serviced at The ToolShed with ToolShed replacement parts. This will ensure that the safety of the power tool or machine is maintained.

 **WARNING**

The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be under stood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Post Hole Borer Specific Safety

- Before using the post hole borer, the operator must be informed of the manufacturers safety instructions and instructions for use. The machine must only be operated by a trained person.
- Only use the post hole borer in daylight or good artificial light.
- Always start the hole borer carefully with your feet well away from the auger bit.
- Do not leave the hole borer unattended while the engine is running.
- Do not use the hole borer barefoot or in opentoed shoes. Always wear suitable clothing, gloves and safety shoes.
- Use the hole borer in soil only. Do not use the borer to bore holes in excessively rocky ground.
- Do not bore holes in an area where there may be hidden gas and water pipes or electricity and other cables.
- Ensure the auger bit is attached to the gearbox output shaft securely.
- Do not use a damaged or worn out auger bit.
- Do not carry the hole borer with the engine running, the auger bit should not rotate when the engine is idling.
- Keep hands and feet away from rotating auger bit at all times.
- Always ensure that the engine is switched off and the spark plug cap is removed before making any

adjustments.

- Before using your hole borer, always visually inspect it to see if any parts are worn or damaged. Replace damaged parts before using the machine.
- Contact your nearest ToolShed if you require any replacement parts or advice.

⚠ WARNING

Reactive torque may occur when the rotating auger makes contact with hard debris. Therefore a firm hold with both hands is essential.

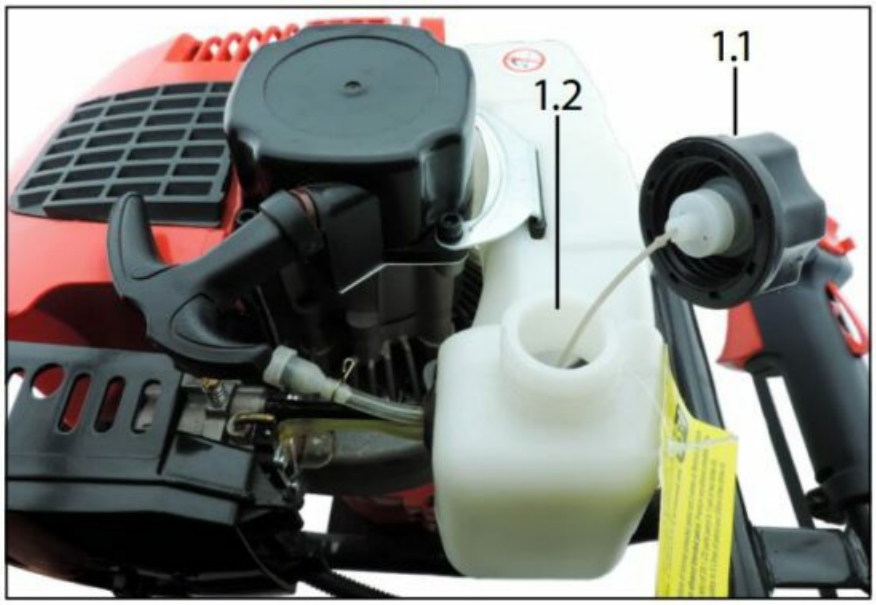
ASSEMBLY

Fitting Auger Bits

- Always ensure the post hole borer is switch off before making any adjustments.
- With the locking pin and split pin removed, place the hollow end of the auger bit onto the drive shaft on the underside of the hole borer.
- Line the hole in the shaft of the auger bit (1.1) with the hole on the drive shaft of the hole borer.
- Push the locking pin (1.2) through the hole and lock in position using the split pin (1.3) provided.

Fuelling

- The hole borer is powered by a two stroke engine which uses a petrol oil fuel mix. The correct fuel mixture is a ratio of 25:1 of petrol and two stroke oil. (25 parts of unleaded petrol to one part of two stroke oil).
- To fill; remove the Fuel tank Cap (1.1).
- Pour the premixed petrol/oil contents of the Fuel Mixing Bottle (supplied) into the fuel tank through the filler neck (1.2).



Fuel Mixing

The fuel tank has a maximum capacity of 1.2L.
To mix the fuel correctly, use the fuel mixing bottle to measure the correct amount of petrol.

⚠ WARNING

Do not mix fuel in the hole borer fuel tank. Measure the fuel into the mixing bottle, then add the correct proportion of two stroke oil according to the markings on the fuel mixing bottle.

OPERATION

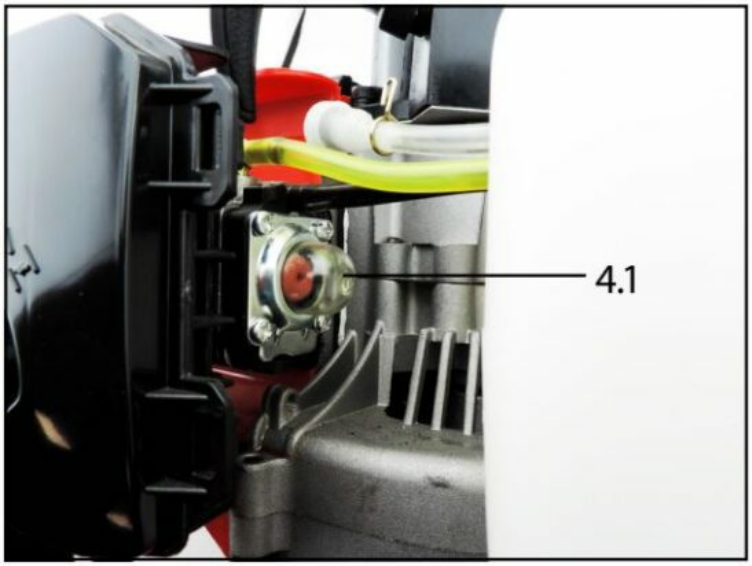
Filling the Fuel Tank

- Use a suitable funnel to transfer the fuel mix from the Fuel Mixing Bottle to the hole borer fuel tank, taking care not to spill any fuel, or over fill the fuel tank.
- For safety reasons, this product has been supplied with the fuel system completely drained of fuel, therefore the engine will require “Running In”.
- When using this machine for the first time, you may experience some difficulty in starting the hole borer. Once the fuel has fully circulated through the system, the hole borer will start.
- Once it has been started, and run in for the first time, future starting will be easier.

Starting the Engine

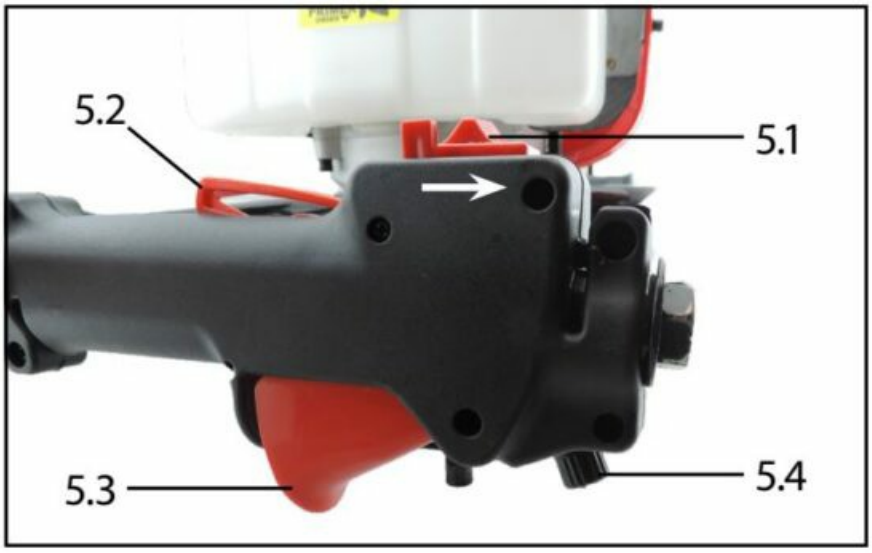
- Gently agitate the fuel mix by gently rocking the hole borer backwards and forwards a few times. This will ensure that the two stroke oil has not settled out from the petrol within the tank.
- Set the choke lever (3.1) to the ON position.

- If the carburettor requires priming, pump the clear rubber priming button (4.1) until fuel appears in the clear button.



Stop/Run Switch

• Make sure that the STOP/RUN switch (5.1) found atop the right handle of the Post Hole Borer, is in the RUN position.



Pull the Recoil Starter

- Hold down and secure the hole borer engine and body firmly with one hand. With the other hand grip the recoil starter cord handle (6.1) and pull slowly until resistance is felt. The resistance indicates that the recoil starter is engaged.
- When resistance is felt, pull the cord sharply.
  Continue this procedure until the engine starts.

Operating the Post Hole Borer

- When the engine has been successfully started and is running smoothly, return the choke lever (3.1) to the OFF position.
- Press in the safety switch lever (5.2) then squeeze the throttle lever (5.3), the auger will begin to rotate.
- To adjust the boring speed; rotate the speed adjuster (5.4) until the desired setting is achieved.
- To stop the auger bit from rotating, briefly squeeze then release the throttle lever.

During Use

- This product requires two hands to ensure safe operation.
- Make sure that the hole boring operation does not involve the risk of underground contact with electric cables, gas mains, water pipes etc.
- Inspect the work area before starting.
- Remove any objects or debris that could be thrown, jammed or become entangled in the auger bit.
- Adopt a stable stance, always keeping the hole borer in front of your body.
- Grip the handles with both hands, ensuring you can safely operate the control levers.
- Allow the auger bit to reach full speed before commencing the boring operation.
- If the auger bit hits a stone or hard ground the rotation may stop immediately and give a hard torque reaction.
- It is therefore required that the operator has a firm grip on both of the handles during operation in order to compensate for a sudden torque reaction.
- Remove any jammed debris from the auger bit and examine for any damage before recommencing work.

Stopping the Engine

- Push the STOP/RUN switch to the STOP position (7.1)

MAINTENANCE

- Before cleaning or performing any maintenance, you must ensure the tool is switched off and disconnected from the power supply.
- Compressed air is the most effective way to clean this tool. Always wear PPE safety goggles when cleaning tools with compressed air.
- Check the carbon brushes of the machine in the event of excessive sparking.
- Ventilation openings and switch levers must be kept clean. DO NOT attempt to clean by inserting pointed objects through openings.
- Do not use chemicals when cleaning this tool.
- If you discover any damaged or broken parts, consult your nearest ToolShed for replacements and advise.

⚠ WARNING

Always ensure that the hole borer is switched off and the spark plug cap is removed before making any adjustments or undergoing any maintenance procedures.

Always wear gloves when handling auger bits as they can be very sharp.

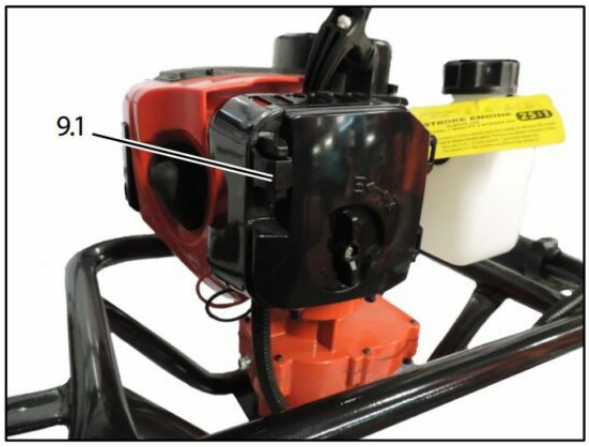
- Re-lubricate all moving parts at regular intervals.
- If the body of the hole borer needs cleaning, wipe it with a soft damp cloth. A mild detergent can be used but do not use alcohol, petrol, or other cleaning agents.
- Never use a caustic agent to clean plastic parts.

Spark Plug

- After every 10 hours of running, the spark plug should be removed.
- Check the colour of the deposits on the end of the spark plug; it should be a tan colour.
- Remove all deposits using a stiff brush (a brass wire brush is ideal).
- Check the spark plug gap and adjust if required.
  The correct gap should be 0.7–0.8mm.

Air Filter

- After every 4 hours of running, the air filter should be removed, examined for deterioration and cleaned.
- Remove the air filter housing cover by pressing in the two clasps (9.1), then remove the air filter.



- Clean the air filter using an environmentally friendly water based degreasing agent.
- When the air filter has dried out, apply sufficient ordinary engine oil to coat the whole of the filter.
- Squeeze out any excess oil and replace the air filter and cover.

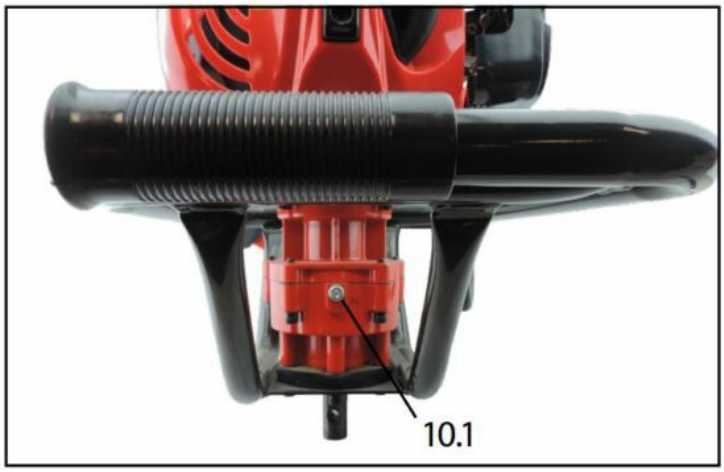
STORAGE

⚠ WARNING

Never run the engine without the air filter fitted.

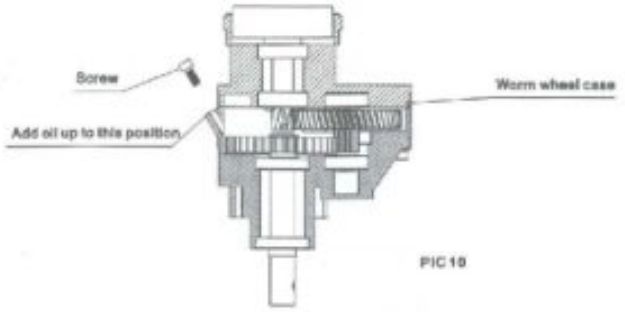
Lubricating the Gearbox

- It is recommended that after every 50 hours use, the gearbox grease should be replaced using suitable a #3 Lithium grease.
- Remove the grease filler bolt (10.1) on the side of the gearbox.
- Add #3 Lithium grease with a grease gun.
- Refit the grease filler port bolt.



- If the hole borer is not to be used for, or is to be stored for more than one month, the following storage procedure should be followed:
- Drain all fuel from the fuel tank and the carburettor.
- Once you are sure all fuel has been removed, remove the spark plug and pour approximately 1 tablespoon of clean engine oil into the spark plug hole.
- With the ignition turned OFF, gently pull on the recoil starter cord several times.
- Re-fit the spark plug and continue to pull the recoil starter cord until the piston is on the compression stroke (when resistance is felt) then stop pulling.
- Store the hole borer in a dry, well ventilated place under a cover to prevent any dust or debris from accumulating on the hole borer.

PARTS DIAGRAM



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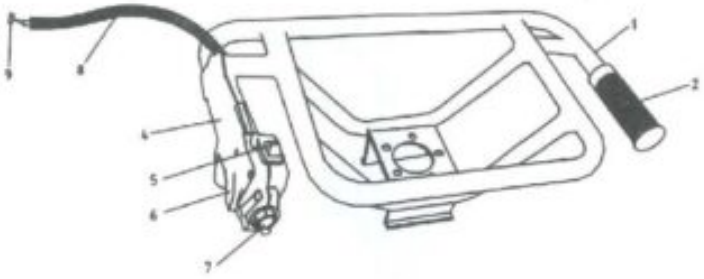
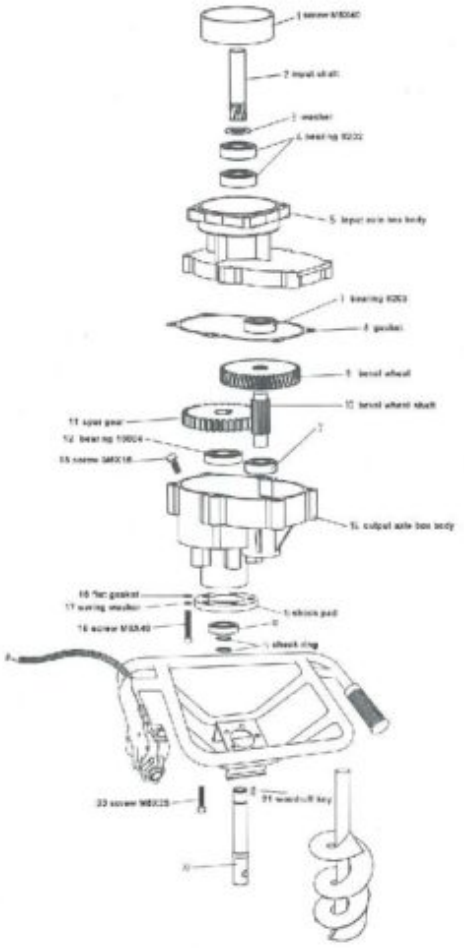


NUMBER	NAME	SIZE	QTY
1	CHASSIS		1
2	HANDLE COVER		1
4	HANDLE COVER		1
5	SWITCH		1
6	SCREW		2
7	SCREW		1
8	WIRE-SWITCH ASSY		1
9	PLUG		1



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Documents / Resources

	ToolShed TSPHB5 Post Hole Borer 51cc With Auger [pdf] Instruction Manual TSPHB5 Post Hole Borer 51cc With Auger, TSPHB5, Post Hole Borer 51cc With Auger, Hole Bo rer 51cc With Auger, Borer 51cc With Auger

References

- The ToolShed - NZ | Power Tools | Hand Tools | Air Tools
- User Manual