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> DC HOUSE 63CC Gas Powered Post Hole Digger Instruction Manual

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Model: 63CC Gas Powered Auger Post Hole Digger

1. INTRODUCTION

Thank you for choosing the DC HOUSE 63CC Gas Powered Post Hole Digger. This manual provides essential information for the safe and efficient operation, assembly, maintenance, and troubleshooting of your new equipment. Please read this manual thoroughly before use and keep it for future reference. This tool is designed for digging post holes in various soil conditions, including clay, frozen, and hard soils, for applications such as fence building, garden planting, and construction.



POWERFUL GAS ENGINE

Capacity: 72CC

Speed: **9030** RPMS

High Torque

Power: **4 HP 3000** KW

Image 1.1: The DC HOUSE 63CC Gas Powered Post Hole Digger, featuring its engine unit and a 12-inch auger bit.

2. SAFETY INFORMATION

Operating this equipment requires caution to prevent injury. Always follow these safety guidelines:

- **Personal Protective Equipment (PPE):** Always wear appropriate safety gear, including safety glasses, hearing protection, heavy-duty gloves, and sturdy footwear.
- **Work Area:** Ensure the work area is clear of bystanders, pets, and obstacles. Do not operate in poorly ventilated areas due to exhaust fumes.
- **Fuel Handling:** Handle gasoline with extreme care. Refuel in a well-ventilated area with the engine off and cool. Avoid smoking or open flames near fuel.
- **Operator Control:** Maintain a firm grip on the handles at all times. Be prepared for sudden kickback if the auger encounters roots, rocks, or other obstructions.
- **Inspection:** Before each use, inspect the auger bit for damage or wear. Check all fasteners for tightness. Ensure the spark plug cable is securely attached.
- **Engine Shut-off:** Know how to stop the engine quickly in an emergency.
- **Children and Training:** Keep children away from the equipment. Only trained individuals should operate the post

hole digger.

3. PRODUCT COMPONENTS AND STRUCTURE

Familiarize yourself with the main parts of your DC HOUSE Post Hole Digger:



Image 3.1: Labeled diagram of the post hole digger's main components.

- **Engine:** The power unit (63CC).
- **Fuel Tank:** Holds the gasoline-oil mixture.
- **Alloy Gearbox:** Transmits power from the engine to the auger bit.
- **Switch:** On/Off control for the engine.
- **Start Rope:** Used to manually start the engine.
- **Gas Switch (Throttle):** Controls engine speed.
- **Alloy Cutter (Auger Bit):** The drilling attachment, typically 12 inches in diameter.

4. ASSEMBLY

The DC HOUSE Post Hole Digger is designed for straightforward assembly. Follow these steps to attach the auger bit to the

engine unit:

1. **Step 1:** Align the shaft of the auger bit with the output shaft of the alloy gearbox.
2. **Step 2:** Insert the auger bit shaft into the gearbox shaft. Ensure it slides in completely.
3. **Step 3:** Locate the pinhole on the gearbox shaft and the corresponding hole on the auger bit shaft.
4. **Step 4:** Insert the retaining pin through both holes to secure the auger bit. Ensure the pin is fully seated and secured with its clip (if applicable).



Image 4.1: Step-by-step assembly of the auger bit to the main unit.

5. FUEL MIXING AND REFUELING

This post hole digger uses a 2-stroke engine, requiring a specific mixture of gasoline and 2-stroke engine oil. **Do not use pure gasoline.**

- **Mixing Ratio:** The recommended mixing ratio is **25:1** (25 parts gasoline to 1 part 2-stroke engine oil).
- **Gasoline Type:** Use fresh, unleaded gasoline with an octane rating of 87 or higher. Avoid using ethanol-blended fuels if possible, or use fuel stabilizer if ethanol is unavoidable.

- **Engine Oil Type:** Use high-quality 2-stroke engine oil specifically designed for air-cooled engines.
- **Mixing Procedure:**
 - a. Pour the required amount of 2-stroke engine oil into a clean, approved fuel container.
 - b. Add the corresponding amount of gasoline to the container.
 - c. Securely close the container and shake it vigorously for at least one minute to ensure thorough mixing.
 - d. Pour the mixed fuel into the digger's fuel tank using a funnel to prevent spills.
- **Refueling Safety:** Always refuel in a well-ventilated outdoor area. Ensure the engine is off and has cooled down before opening the fuel cap. Avoid overfilling the tank.



Image 5.1: Visual guide for preparing the 25:1 fuel mixture.

6. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation:

1. Pre-Operation Check:

- Ensure the auger bit is securely attached.
- Check fuel level and ensure the fuel cap is tight.
- Verify the spark plug cable is firmly connected.
- Inspect the work area for hidden obstacles like rocks or utility lines.

2. Starting the Engine:

- Place the digger on a flat, stable surface.
- Set the engine switch to the "ON" position.
- Engage the choke (if cold start).
- Press the primer bulb several times until fuel is visible.
- Pull the start rope firmly and steadily until the engine starts. Do not pull the rope to its full extension.
- Once the engine starts, gradually disengage the choke.
- Allow the engine to warm up for a few moments before operating.

3. Digging a Hole:

- Hold the digger firmly with both hands, maintaining a balanced stance.
- Position the auger bit over the desired digging location.
- Slowly engage the throttle to begin rotating the auger.
- Apply steady, downward pressure. Allow the auger to do the work.

- If the auger binds or encounters a hard obstruction, release the throttle immediately. Attempt to clear the obstruction or reposition the digger.
- Periodically lift the auger slightly to clear loose soil from the hole.

4. Stopping the Engine:

- Release the throttle to allow the engine to idle.
- Move the engine switch to the "OFF" position.

REFUELING RATIO DESCRIPTION

Add special oil according to the engine stroke

Gasoline **Engine oil**

The Mixing Ratio

Gasoline
:
Engine oil

25:1

Hybrid method

Add gasoline and engine oil separately. Put the lid on and shake evenly before use

Image 6.1: The post hole digger effectively operating in various challenging soil conditions.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your post hole digger.

• After Each Use:

- Clean the auger bit and engine unit of dirt, debris, and grass.

- Inspect the auger bit for wear or damage.
 - Check all nuts, bolts, and fasteners for tightness.
- **Fuel System:**
 - If storing for an extended period, drain the fuel tank or use a fuel stabilizer to prevent fuel degradation.
 - Inspect fuel lines for cracks or leaks periodically.
 - **Spark Plug:**
 - Inspect and clean the spark plug regularly. Replace if electrodes are worn or fouled. Ensure the spark plug cable is securely connected.
 - **Air Filter:**
 - Clean the air filter regularly, especially in dusty conditions. A dirty air filter can reduce engine performance.
 - **Gearbox Lubrication:**
 - The alloy gearbox requires lubrication. Consult the specific instructions provided with your unit for the correct type and amount of gear oil, and the location of the fill port. Typically, a small amount of high-quality gear oil is added to the gearbox.

8. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Engine does not start.	No fuel or incorrect fuel mixture. Engine switch OFF. Choke not engaged (cold start). Spark plug cable loose or faulty spark plug. Pull cord issue.	Check fuel level and mixture (25:1). Turn engine switch to "ON". Engage choke for cold starts. Secure spark plug cable; inspect/replace spark plug. Inspect pull cord mechanism for damage.
Engine runs poorly or stalls.	Dirty air filter. Incorrect fuel mixture. Fouled spark plug. Carburetor issues.	Clean or replace air filter. Ensure correct 25:1 fuel mixture. Clean or replace spark plug. Consult a qualified service technician.
Auger bit binds or stops.	Encountered obstruction (rock, root). Soil too compact.	Release throttle immediately. Lift auger, clear obstruction, or reposition. Apply less downward pressure, lift periodically to clear soil.
Excessive vibration.	Loose auger bit. Damaged auger bit. Loose engine components.	Check and secure auger bit retaining pin. Replace damaged auger bit. Inspect and tighten all fasteners.

9. SPECIFICATIONS

Key technical specifications for the DC HOUSE 63CC Gas Powered Post Hole Digger:

- **Engine Displacement:** 63CC
- **Engine Type:** 2-Stroke, Air-cooled

- **Fuel Mixture Ratio:** Gasoline : 2-Stroke Oil = 25:1
- **Item Weight:** Approximately 48.2 pounds (21.86 kg)
- **Package Dimensions:** 49.2 x 15 x 12.2 inches (124.97 x 38.1 x 30.99 cm)
- **Auger Bit Diameter:** 12 inches (300 mm)
- **Auger Bit Length:** Approximately 31.5 inches (800 mm)
- **Manufacturer:** ECO LLC
- **ASIN:** B07NQBMS5Z

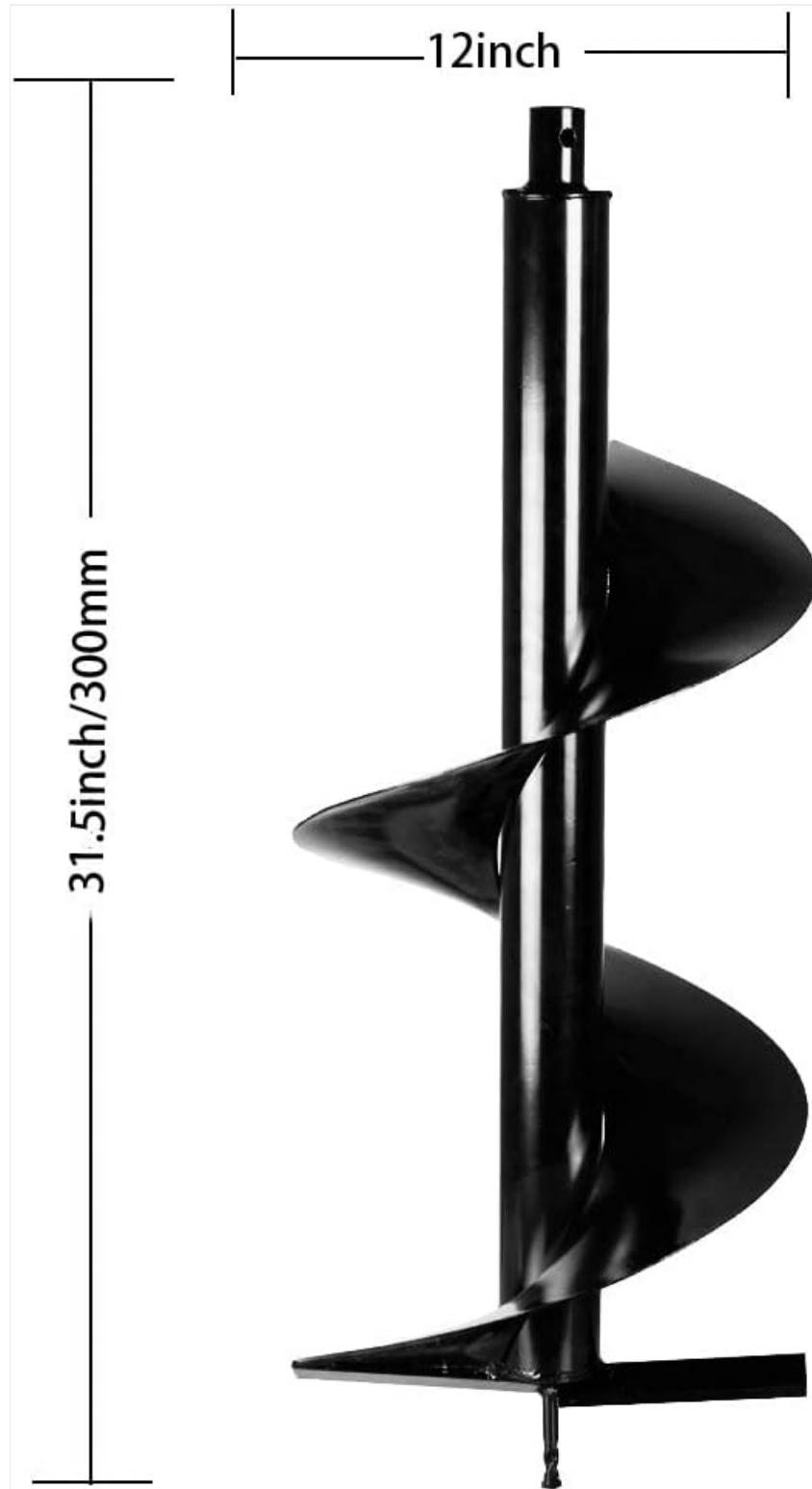


Image 9.1: Dimensions of the 12-inch auger bit.

10. WARRANTY AND SUPPORT

For specific warranty information regarding your DC HOUSE 63CC Gas Powered Post Hole Digger, please refer to any documentation included with your purchase or contact the retailer/manufacturer directly. If you require technical assistance, replacement parts, or have questions not covered in this manual, please reach out to DC HOUSE customer support through their official channels.