

Scheppach EB1700

Scheppach EB1700 Petrol Earth Auger Post Drill Instruction Manual

1. IMPORTANT SAFETY INSTRUCTIONS

Read and understand all safety warnings and instructions before operating the Scheppach EB1700 Petrol Earth Auger. Failure to follow these instructions may result in serious injury or property damage. Keep this manual for future reference.

1.1 General Safety

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, sturdy footwear, and gloves.
- Do not operate the auger when fatigued, under the influence of drugs, alcohol, or medication.
- Keep bystanders, children, and pets at a safe distance (at least 15 meters) from the operating area.
- Inspect the work area for underground cables, pipes, or other obstructions before drilling.
- Ensure the auger is in good working condition before each use. Do not operate if damaged.
- Always hold the auger firmly with both hands during operation.

1.2 Fuel Safety

- Handle fuel with extreme care. It is highly flammable.
- Mix fuel and oil in a well-ventilated area, away from sparks or open flames.
- Store fuel in approved containers in a cool, dry place.
- Never refuel a hot engine. Allow the engine to cool down before adding fuel.

2. PRODUCT OVERVIEW

The Scheppach EB1700 is a petrol-powered earth auger designed for efficiently drilling holes in various soil conditions. It is suitable for tasks such as installing fence posts, creating foundations, or planting trees

and shrubs. The robust design and powerful engine ensure effective performance.

Key Features:

- Powerful 2-stroke petrol engine (1.77 HP, 51.7 cm³ displacement).
- Adjustable drill speed (0 to 310 revolutions per minute).
- Solid tubular steel frame for stability and protection.
- Includes three steel drill bits: 100 mm, 150 mm, and 200 mm diameter.
- Tool-free drill bit change.



Image: Side view of the Scheppach EB1700 Petrol Earth Auger, highlighting the engine and drill bit attachment point.

3. UNPACKING AND ASSEMBLY

3.1 Included Components

Verify that all components are present and undamaged:

- Scheppach EB1700 Earth Auger power head
- 100 mm diameter drill bit
- 150 mm diameter drill bit
- 200 mm diameter drill bit
- User Manual (this document)

3.2 Attaching the Drill Bit

1. Ensure the engine is off and cool.
2. Select the desired drill bit size (100 mm, 150 mm, or 200 mm).
3. Align the drill bit shaft with the output shaft of the auger power head.
4. Insert the drill bit shaft into the power head's coupling.
5. Secure the drill bit using the provided locking pin. Ensure the pin passes completely through both the drill bit shaft and the power head coupling, and is secured with a cotter pin or clip.

6. Verify the drill bit is securely attached before operation.



Image: The Scheppach EB1700 Earth Auger with a drill bit attached, ready for use.

4. FUEL AND OIL MIXTURE

The Scheppach EB1700 is powered by a 2-stroke engine and requires a specific fuel-oil mixture. Use unleaded petrol with an octane rating of 90 RON or higher, mixed with high-quality 2-stroke engine oil.

Recommended Mixing Ratio: Refer to the engine oil manufacturer's instructions, typically 1:25 or 1:50 (e.g., 40 ml of oil per 1 liter of petrol for 1:25, or 20 ml of oil per 1 liter of petrol for 1:50). Always follow the oil manufacturer's recommendation for the specific 2-stroke oil used.

1. Use a clean, approved fuel container.
2. Pour half of the required petrol into the container.
3. Add the entire amount of 2-stroke oil.
4. Shake the container thoroughly to mix.
5. Add the remaining petrol and shake again.
6. Carefully pour the mixture into the auger's fuel tank, avoiding spills.
7. Securely close the fuel tank cap.

Never use pure petrol or automotive engine oil in a 2-stroke engine. This will cause severe engine damage.

5. OPERATING INSTRUCTIONS

5.1 Starting the Engine

1. Place the auger on a flat, stable surface.
2. Ensure the fuel tank is filled with the correct fuel-oil mixture.
3. Set the ON/OFF switch to the "ON" position.
4. Engage the choke (if the engine is cold).

5. Press the primer bulb several times until fuel is visible.
6. Pull the starter cord firmly and steadily until the engine starts. Do not pull the cord to its full extension.
7. Once the engine starts, gradually disengage the choke.
8. Allow the engine to warm up for a few moments before beginning operation.

5.2 Drilling Procedure

1. Hold the auger firmly with both hands on the handles.
2. Position the drill bit over the desired drilling location.
3. Slowly engage the throttle to start the drill bit rotating.
4. Apply gentle downward pressure as the drill bit penetrates the soil. The engine's weight assists in vertical drilling.
5. Adjust the throttle to control the drilling speed (0 to 310 RPM). The throttle lever can be locked for continuous operation in optimal soil conditions.
6. If the drill encounters resistance (e.g., rocks, roots), release the throttle immediately. Attempt to clear the obstruction or reposition the auger.
7. To remove the drill bit from the hole, maintain a low throttle and lift the auger steadily.
8. After drilling, release the throttle and allow the engine to idle before shutting it off.



Image: An individual demonstrating the proper technique for operating the Scheppach EB1700 Earth Auger for post hole digging.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Scheppach EB1700 Earth Auger.

6.1 After Each Use

- Clean the auger and drill bits of soil and debris.
- Inspect the drill bits for wear or damage. Replace if necessary.
- Check all fasteners for tightness.

6.2 Regular Checks (e.g., every 10-20 operating hours)

- **Air Filter:** Clean or replace the air filter. A clogged air filter can reduce engine performance.
- **Spark Plug:** Inspect the spark plug. Clean or replace if fouled or worn. Ensure the correct gap.
- **Fuel Filter:** Check and clean or replace the fuel filter if accessible.
- **Cooling Fins:** Ensure engine cooling fins are free of debris to prevent overheating.

6.3 Storage

- For long-term storage, drain the fuel tank and run the engine until it stops to clear the carburetor of fuel. This prevents fuel degradation and carburetor clogging.
- Clean the entire unit thoroughly.
- Store the auger in a dry, well-ventilated area, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your EB1700 Earth Auger.

Problem	Possible Cause	Solution
Engine does not start	ON/OFF switch in "OFF" position No fuel or incorrect fuel mixture Choke not engaged (cold engine) Spark plug fouled or damaged Air filter clogged	Set switch to "ON" Fill with correct fuel-oil mixture Engage choke Clean or replace spark plug Clean or replace air filter
Loss of power during operation	Clogged air filter Incorrect fuel mixture Engine overheating Worn spark plug	Clean or replace air filter Use correct fuel-oil mixture Check cooling fins, allow engine to cool Replace spark plug
Drill bit jams in soil	Encountered rock or root Excessive downward pressure	Release throttle, attempt to free by rotating manually or lifting. Reposition. Reduce pressure, allow auger to work naturally.

If problems persist after attempting these solutions, contact authorized service personnel.

8. TECHNICAL SPECIFICATIONS

Specification	Value
Model	EB1700
Engine Type	2-stroke, Petrol powered
Engine Displacement	51.7 cm ³
Maximum Power	1.77 HP (1300 Watts)
Speed	0 - 310 RPM (Variable)
Maximum Torque	2.1 Newton Meters
Included Drill Bits	100 mm, 150 mm, 200 mm diameter
Maximum Drill Length	800 mm
Weight	9.5 Kilograms
Material	Metal
Color	Blue, silver, black
Manufacturer Model Number	5904702904



Image: Top-down view of the Scheppach EB1700 Earth Auger, illustrating the compact design of the power head and the attached drill.

9. WARRANTY AND SUPPORT

For warranty information, service, or technical support, please refer to the warranty card included with your product or contact Scheppach customer service directly. Keep your proof of purchase for warranty claims.

Manufacturer: Scheppach

Model: EB1700

Manufacturer Part Number: 5904702904