

Vibroplate WP 1550A, WP 1550AW OPERATOR'S MANUAL

1. Foreword

This manual provides information and procedures to safely operate and maintain this Wacker model. For your own safety and protection from injury, carefully read, understand and observe the safety instructions described in this manual. Keep this manual or a copy of it with the machine. If you lose this manual or need an additional copy, please contact CROWN RENTAL. This machine is built with user safety in mind; however, it can present hazards if improperly operated and serviced. Follow operating instructions carefully! If you have questions about operating or servicing this equipment, please contact CROWN RENTAL.

2. Safety Information

This manual contains DANGER, WARNING, CAUTION, and NOTE callouts which must be followed to reduce the possibility of personal injury, damage to the equipment, or improper service.

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION: Used without the safety alert symbol, CAUTION indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Note: Contains additional information important to a procedure.

2.2 Operating Safety

Familiarity and proper training are required for the safe operation of equipment. Equipment operated improperly or by untrained personnel can be dangerous. Read the operating instructions contained in both this manual and the engine manual and familiarize yourself with the location and proper use of all controls. Inexperienced operators should receive instruction from someone familiar with the equipment before being allowed to operate the machine.

2.2.1 NEVER allow anyone to operate this equipment without proper training. People operating this equipment must be familiar with the risks and hazards associated with it.

2.2.2 NEVER touch the engine or muffler while the engine is on or immediately after it has been turned off. These areas get hot and may cause burns.

2.2.3 NEVER use accessories or attachments that are not recommended by Wacker. Damage to equipment and injury to the user may result.

2.2.4 NEVER operate the machine with the beltguard missing. Exposed drive belt and pulleys create potentially dangerous hazards that can cause serious injuries.

2.2.5 NEVER leave machine running unattended.

2.2.6 ALWAYS be sure operator is familiar with proper safety precautions and operation techniques before using machine.

2.2.7 ALWAYS wear protective clothing appropriate to the job site when operating equipment.

2.2.8 ALWAYS wear hearing protection when operating equipment.

2.2.9 ALWAYS close fuel valve on engines equipped with one when machine is not being operated.

2.2.10 ALWAYS store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.

2.2.11 ALWAYS operate machine with all safety devices and guards in place and in working order. DO NOT modify or defeat safety devices. DO NOT operate machine if any safety devices or guards are missing or inoperative.

2.2.12 ALWAYS read, understand, and follow procedures in the Operator's Manual before attempting to operate the equipment.

2.3 Operator Safety while using Internal Combustion Engines;

Internal combustion engines present special hazards during operation and fueling. Read and follow the warning instructions in the engine owner's manual and the safety guidelines below. Failure to follow the warnings and safety guidelines could result in severe injury or death.

2.3.1 DO NOT run the machine indoors or in an enclosed area such as a deep trench unless adequate ventilation, through such items as exhaust fans or hoses, is provided. Exhaust gas from the engine contains poisonous carbon monoxide gas; exposure to carbon monoxide can cause loss of consciousness and may lead to death.

2.3.2 DO NOT smoke while operating the machine.

2.3.3 DO NOT smoke when refueling the engine.

2.3.4 DO NOT refuel a hot or running engine.

2.3.5 DO NOT refuel the engine near an open flame.

2.3.6 DO NOT spill fuel when refueling the engine.

2.3.7 DO NOT run the engine near open flames.

2.3.8 ALWAYS refill the fuel tank in a well-ventilated area.

2.3.9 ALWAYS replace the fuel tank cap after refueling.

2.3.10 ALWAYS check the fuel lines and the fuel tank for leaks and cracks before starting the engine. Do not run the machine if fuel leaks are present or the fuel lines are loose.

2.4 Service Safety

Poorly maintained equipment can become a safety hazard! In order for the equipment to operate safely and properly over a long period of time, periodic maintenance and occasional repairs are necessary.

2.4.1 DO NOT attempt to clean or service the machine while it is running.

Rotating parts can cause severe injury.

2.4.2 DO NOT crank a flooded engine with the spark plug removed on gasoline-powered engines. Fuel trapped in the cylinder will squirt out the spark plug opening.

2.4.3 DO NOT test for spark on gasoline-powered engines, if the engine is flooded or the smell of gasoline is present. A stray spark could ignite the fumes.

2.4.4 DO NOT use gasoline or other types of fuels or flammable solvents to clean parts, especially in enclosed areas. Fumes from fuels and solvents can become explosive.

2.4.5 ALWAYS keep the area around the muffler free of debris such as leaves, paper, cartons, etc. A hot muffler could ignite the debris and start a fire.

2.4.6 ALWAYS replace worn or damaged components with spare parts designed and recommended by Wacker.

2.4.7 ALWAYS disconnect the spark plug on machines equipped with gasoline engines, before servicing, to avoid accidental start-up.

2.4.8 ALWAYS keep the machine clean and labels legible. Replace all missing and hard-to-read labels. Labels provide important operating instructions and warn of dangers and hazards.

CAUTION!

Read and understand the supplied Operator's Manuals before operating this machine. Failure to do so increases the risk of injury to yourself or others.

DANGER!

Engines emit carbon monoxide; operate only in well-ventilated area. Read the Operator's Manual.

No sparks, flames, or burning objects near the machine. Shut off the engine before refueling.

4. Operation

4.1 Recommended Fuel

The engine requires regular grade unleaded gasoline. Use only fresh, clean gasoline. Gasoline containing water or dirt will damage fuel system.

4.2 Before Starting

4.2.1 Read and understand the safety and operating instructions at the beginning of this manual.

4.2.2 Check:

- Oil level in the engine
- Fuel level
- Condition of the air cleaner
- Tightness of the external fasteners
- Condition of the fuel lines

4.3 To Start

4.3.1 Open fuel valve by moving lever to the right.

Note: If engine is cold, move choke lever to close position. If engine is hot, set choke to open position.

4.3.2 Turn engine switch to "ON".

4.3.3 Open throttle by moving it slightly to left.

4.3.4 Pull starter rope.

Note: If the oil level in the engine is low, the engine will not start. If this happens, add oil to engine.

4.3.5 Open choke as engine warms.

4.3.6 Open throttle fully to operate.

4.4 To Stop

4.4.1 Reduce engine RPM to idle by moving throttle completely to right.

4.4.2 Turn engine switch to "OFF".

4.4.3 Close fuel valve by moving lever to the left.

4.5 Application

This plate is designed for compacting loose, granular soils, gravel, and paving stones. It is intended to be used in confined areas and areas next to structures such as walls, curbs, and foundations. Plates equipped with water tanks can be used for compacting asphalt.

This plate is not recommended for compacting cohesive soils with a heavy clay content. For cohesive soil, use a vibratory rammer or sheepsfoot roller.

4.6 Operation

Run engine at full throttle and allow plate to pull itself along at its normal speed. When operating on an incline it may be necessary to assist plate by pushing it forward slightly. Depending on the material being compacted, three or four passes are recommended to achieve the best compaction. While a certain amount of moisture in the soil is necessary, excessive moisture may cause soil particles to stick together and prevent good compaction. If soil is extremely wet, allow it to dry somewhat before compacting. If soil is so dry as to create dust clouds while operating plate, some moisture should be added to the ground material to improve compaction.

For compacting asphalt, open water tank valve to wet asphalt and underside of plate. This will prevent asphalt material from sticking. Two or three passes are usually sufficient to ensure good compaction.

When using plate on paving stones, attach a pad to the bottom of the plate to prevent chipping or grinding surface of the stones. A special urethane pad designed for this purpose is available as an optional accessory.

CAUTION: DO NOT operate plate on concrete or on extremely hard, dry, compacted surfaces. The plate will jump rather than vibrate and could damage both plate and engine.

CAUTION: DO NOT lift the vibroplate by its guide handle. The vibroplate can shift, causing it to fall.

5. Maintenance

5.1 Periodic Maintenance Schedule

5.2 Cleaning Plate

Clean plate after use to remove dirt, stones, and mud caught under the engine console. If plate is being used in a dusty area, check engine cylinder cooling fins for heavy dirt accumulation. Keep engine cylinder fins clean to prevent engine from overheating.

The muffler becomes very hot during operation and remains hot for a while after stopping the engine. Do not touch the muffler while it is hot.

5.10 Troubleshooting

Plate does not develop full speed. Poor compaction.

- Engine throttle control not completely open.
- Throttle control not adjusted correctly.
- Ground too wet, plate sticking. Allow soil to dry before compacting.
- Drive belt loose or worn, slipping on pulleys.
- Exciter bearings binding. Check condition and level of oil in exciter.
- Air filter clogged with dust, reducing engine performance. Clean or replace air filter.
- Engine speed too low. Check engine speed with tachometer.

Engine running, no vibration • Engine throttle not open.

- Drive belt loose or broken. Adjust or replace.
- Clutch damaged. Inspect and replace clutch.
- Engine speed too low. Check engine speed.
- Too much oil in exciter. Adjust oil to correct level.

Plate jumps or compacts unevenly.

- Ground surface too hard.
- Shockmounts loose or damaged.

5.12 Lifting Machine

To lift machine manually:

5.12.1 Stop the engine.

5.12.2 Obtain help from a partner and plan the lift.

5.12.3 Grasp the machine by its cage (a) and lifting slot (b).

5.12.4 Lift the machine as shown.

To reduce risk of back injury while lifting, keep your feet flat on ground and shoulder width apart. Keep your head up and back straight.

To lift machine mechanically:

CAUTION: Before attempting to lift, be sure that all lifting devices can safely handle the weight of the machine.

5.12.1 Attach hook, harness, or cable to the machine frame and lift as desired.

CAUTION: DO NOT lift the vibroplate by its guide handle. The vibroplate can shift, causing it to fall.

5.13 Transporting Machine

To avoid burns or fire hazards, let engine cool before transporting machine or storing indoors.

5.13.1 Turn fuel valve to the off position and keep the engine level to prevent fuel from spilling.

5.13.2 Tie down machine on vehicle to prevent machine from sliding or tipping over.