

Operator's manual

Vibratory plate
DPU 130Le



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Manufacturer

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Translation of the original operator's manual in German



**WACKER
NEUSON**

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1 Foreword

This operator's manual contains information and procedures for the safe operation and maintenance of your Wacker Neuson machine. In the interest of your own safety and to prevent accidents, you should carefully read through the safety information, familiarize yourself with it and observe it at all times.

This operator's manual is not a manual for extensive maintenance and repair work. Such work should be carried out by Wacker Neuson service or authorized specialists.

The safety of the operator was one of the most important aspects taken into consideration when this machine was designed. Nevertheless, improper use or incorrect maintenance can pose a risk. Please operate and maintain your Wacker Neuson machine in accordance with the instructions in this operator's manual. Your reward will be troublefree operation and a high degree of availability.

Defective machine parts must be replaced immediately!

Please contact your Wacker Neuson representative if you have any questions concerning operation or maintenance.

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We expressly reserve the right to make technical modifications – even without special notice – which aim at further improving our machines or their safety standards.

2 Introduction

2.1 Means of representation for this operator's manual

Warning symbols

This operator's manual contains safety information of the categories: DANGER, WARNING, CAUTION, NOTICE.

They should be followed to prevent danger to life and limb of the operator or damage to equipment and exclude improper service.



DANGER

This warning notice indicates immediate hazards that result in serious injury or even death.

- Danger can be avoided by the following the actions mentioned.
-



WARNING

This warning notice indicates possible hazards that can result in serious injury or even death.

- Danger can be avoided by the following the actions mentioned.
-



CAUTION

This warning notice indicates possible hazards that can result in minor injury.

- Danger can be avoided by the following the actions mentioned.
-

NOTICE

This warning notice indicates possible hazards that can result in material damage.

- Danger can be avoided by the following the actions mentioned.
-

Notes

Note: Complementary information will be displayed here.

Instructions

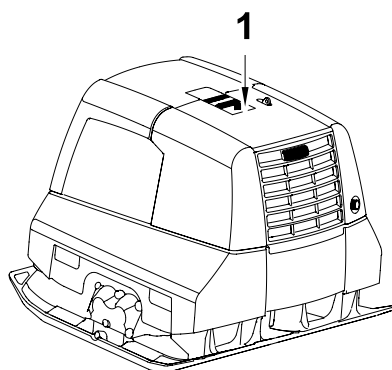
- ▶ This symbol indicates there is something for you to do.
- 1. Numbered instructions indicate that you have to carry out something in a defined sequence.
- This symbol is used for lists.

2.2 Wacker Neuson representative

Depending on your country, your Wacker Neuson representative is your Wacker Neuson service, your Wacker Neuson affiliate or your Wacker Neuson dealer.

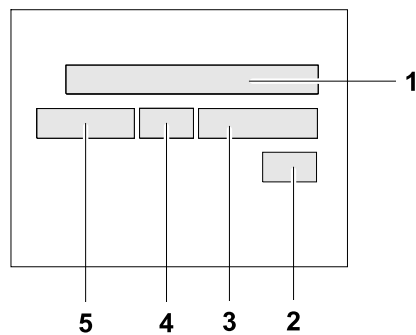
You can find the addresses in the Internet at www.wackerneuson.com.

The address of the manufacturer is located at the beginning of this operator's manual.

2.3 Nameplate**Nameplate position**

Item	Designation
1	Nameplate

Nameplate data

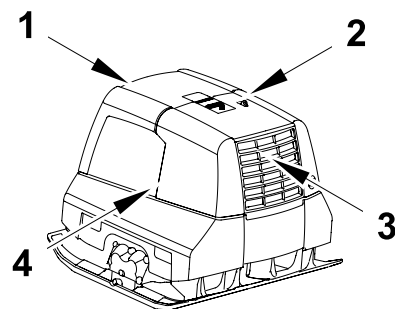


The nameplate lists information that uniquely identifies your machine. This information is needed to order spare parts and when requesting additional technical information.

► Enter the information of your machine into the following table:

Item	Designation	Your information
1	Group and type	
2	Construction year	
3	Machine no.	
4	Version no.	
5	Item no.	

2.4 Indication of location



Item	Designation
1	Front (receiver unit transparent)
2	Right
3	Rear (receiver unit red)
4	Left

3 Safety

3.1 Principle

State of the art

This machine has been constructed with state-of-the-art technology according to the recognized rules of safety. Nevertheless, when used improperly, dangers to the life and limb of the operator or to third persons or damage to the machine or other materials cannot be excluded.

Proper use

The machine must only be used for the following purposes:

- Compaction of soils.

The machine may not be used for the following purposes:

- Compaction of intensely cohesive soils.
- Compaction of frozen soils.
- Compaction of hard, non-compactable soils.
- Compaction of soils that are not capable of bearing a load.
- Compaction of asphalt.
- Shaking in of paving stones.

Its proper use also includes the observance of all instructions contained in this operator's manual as well as complying with the required service and maintenance instructions.

Any other use is regarded as improper. Any damage resulting from improper use will void the warranty and the liability on behalf of the manufacturer. The operator assumes full responsibility.

Structural modifications

Never attempt to modify the machine without the written permission of the manufacturer. To do so will endanger your safety and the safety of other people! In addition, this will void the warranty and the liability on behalf of the manufacturer.

Especially the following are cases of structural modifications:

- Opening the machine and the permanent removal of components from Wacker Neuson.
- Installing new components which are not from Wacker Neuson and not equivalent to the original parts in design and quality.
- Installation of accessories which are not from Wacker Neuson.

It is no problem to install spare parts from Wacker Neuson.

It is no problem to install accessories that are available in the Wacker Neuson product range of your machine. Please refer to the installation regulations in this operator's manual.

Requirements for operation

The ability to operate the machine safely requires:

- Proper transport, storage and setup.
- Careful operation.
- Careful service and maintenance.

Operation

Operate the machine only as intended and only when in proper working condition.

Operate the machine in a safety-conscious manner with all safety devices attached and enabled. Do not modify or disable any safety devices.

Before starting operation, check that all control and safety devices are functioning properly.

Never operate the machine in a potentially explosive environment.

Supervision

Never leave the machine running unattended!

Maintenance

Regular maintenance work is required in order for the machine to operate properly and reliably over time. Failure to perform adequate maintenance reduces the safety of the machine.

- Strictly observe the prescribed maintenance intervals.
- Do not use the machine if it requires maintenance or repairs.

Malfunctions

If you detect a malfunction, you must shut down and secure the machine immediately.

Eliminate the malfunctions that impair safety immediately!

Have damaged or defective components replaced immediately!

For further information, refer to chapter *Troubleshooting*.

Spare parts, accessories

Use only spare parts from Wacker Neuson or such that are equivalent to the original parts in design and quality.

Only use accessories from Wacker Neuson.

Non-compliance will exempt the manufacturer from all liability.

Exclusion of liability

Wacker Neuson will refuse to accept liability for injuries to persons or for damage to materials in the following cases:

- Structural modifications.
- Improper use.
- Failure to comply with this operator's manual.
- Improper handling.
- Using of spare parts which are not from Wacker Neuson and not equivalent to the original parts in design and quality.
- Using of accessories which are not from Wacker Neuson.

Operator's manual

Always keep the operator's manual near the machine or near the worksite for quick reference.

If you have misplaced the operator's manual or require an additional copy, contact your Wacker Neuson representative or download the operator's manual from the Internet (www.wackerneuson.com).

Always hand over this operator's manual to other operators or to the future owner of the machine.

Country-specific regulations

Observe the country-specific regulations, standards and guidelines in reference to accident prevention and environmental safety, for example those pertaining to hazardous materials and wearing protective gear.

Complement the operator's manual with additional instructions taking into account the operational, regulatory, national or generally applicable safety guidelines.



Operator's controls

Always keep the operator's controls of the machine dry, clean and free of oil or grease.

Operating elements such as ON/OFF switch, gas handles etc. may not be locked, manipulated or changed without authorization.

Cleaning

Always keep the machine clean and be sure to clean it each time you have finished using it.

Do not use gasoline or solvents. Danger of explosion!

Do not use high pressure washers. Permeating water can damage the machine. When electrical equipment is present, this can pose a serious injury risk from electric shocks.

Checking for signs of damage

Inspect the machine when it is switched off for any signs of damage at least once per work shift.

Do not operate the machine if there is visible damage or defects.

Have any damage or defects eliminated immediately.

3.2 Qualification of the operating personnel**Operator qualifications**

Only trained personnel are permitted to start and operate the machine. The following rules also apply:

- You are at least 18 years of age.
- You are physically and mentally fit.
- You have received instruction on how to independently operate the machine.
- You have received instruction in the proper use of the machine.
- You are familiar with required safety devices.
- You are authorized to start machines and systems in accordance with the standards governing safety.
- Your company or the operator has assigned you to work independently with this machine.

Incorrect operation

Incorrect operation or misuse by untrained personnel can endanger the health and safety of the operator or third persons and also cause machine and material damage.



Operating company responsibilities

The operating company must make the operator's manual available to the operator and ensure that the operator has read and understood it.

Work recommendations

Please observe the recommendations below:

- Work only if you are in a good physical condition.
- Work attentively, particularly as you finish.
- Do not operate the machine when you are tired.
- Carry out all work calmly, circumspectly and carefully.
- Never operate the machine under the influence of alcohol, drugs or medication. This can impair your vision, reactions and your judgment.
- Work in a manner that does not endanger others.
- Ensure that no persons or animals are within the danger zone.

3.3 Protective gear

Work clothing

Clothing should be appropriate, i.e. should be close-fitting but not restrict your movement.

When on construction sites, do not wear long hair loosely, loose clothing or jewelry including rings. These objects can easily get caught or be drawn in by moving machine parts.

Only wear clothing made of material that is not easily flammable.

Personal protective gear

Wear personal protective gear to avoid injuries or health hazards:

- Non-skid, hard-toed shoes.
- Work gloves made of durable material.
- Overalls made of durable material.
- Hard hat.
- Ear protection.



Ear protection

This machine generates noise that exceeds the country-specific permissible noise levels (individual rating level). It may therefore be necessary to wear ear protection. You can find the exact value in the chapter *Technical Data*.

When wearing ear protection while working, you must pay attention and exercise caution because your hearing is limited, e.g. in case someone screams or a signal tone sounds.

Wacker Neuson recommends that you always wear ear protection.

3.4 Transport

Turning off engine and deactivating machine

Always turn off the engine and deactivate the machine before transport.

Let engine cool off.

Observing hazardous materials regulations

Observe the national safety guidelines and the hazardous materials regulations that apply to the respective means of transportation.

Lifting

When lifting the machine, observe the following instructions:

- Designate a skilled person to guide you for the lifting procedure.
- You must be able to see or hear this person.
- Use only suitable and certified hoisting gear, lifting tackle and load-bearing equipment with sufficient lifting capacities.
- Only use the attachment points described in the operator's manual.
- Attach the machine securely to the hoisting gear.
- Ensure that no one is nearby or under the machine.
- Do not climb onto the machine.

Loading the machine

Loading ramps must be able to bear the load and be in a stable position.

Make sure that no one can be endangered if the machine slips away or tips over or if machine parts suddenly move upward or downward.

Put the operating controls and moving parts in their transport position.

Secure the machine with load-securing straps so that it cannot tip over, fall down or slide away. Only use the attachment points described in the operator's manual.

Transport vehicle

Use only suitable transport vehicles with sufficient load-carrying capacity and suitable tie-down lugs.

Transporting the machine

Secure the machine on the transport device against tilting, falling or slipping.

Restarting

Machines, machine parts, accessories or tools that were detached for transport purposes must be re-mounted and fastened before restarting.

Only operate in accordance with the operating instructions.

3.5 Operating safety**Explosible environment**

Never operate the machine in a potentially explosive environment.

Work environment

Familiarize yourself with your work environment before you start work. This includes e.g. the following items:

- Obstacles in the work and traffic area.
- Load-bearing capacity of the ground.
- The measures needed to cordon off the construction site from public traffic in particular.
- The measures needed to secure walls and ceilings.
- Options available in the event of an accident.

Safety in the work area

When working with the machine especially pay attention to the following points:

- Electric lines or pipes in work area.
- Gas lines or water lines in the work area.

Starting the machine

Observe the safety information and warning notices located on the machine and in the operator's manual.

Never attempt to start a machine that requires maintenance or repairs.

Start the machine as directed in the operator's manual.

Vertical stability

Always ensure that the machine is vertically stable and cannot tip over, roll or slide away.

Proper operator position

Do not leave the proper operator position while operating the machine.

The intended operator position is behind the machine at a distance of at least 5 m.

Leaving the danger area

Injury may be caused by moving machines or flying materials.

Ensure that operators and other persons observe a minimum safety distance of 2 m from the machine.

Caution with movable parts

Keep your hands, feet and loose clothing away from moving or rotating machine parts. Parts of your body being pulled in or crushed can cause serious injuries.

Turning off engine and deactivating machine

Turn off the engine and deactivate the machine and remote control in the following situations:

- Before breaks.
- If you are not using the machine.

Store the machine in such a way that it cannot tilt, fall or slip.

Storage location

After operation, allow the machine to cool and then store it in a sealed-off, clean and dry location protected against frost and inaccessible to children.

Not using starter sprays

Highly flammable starter sprays pose a fire hazard.

Do not use any starter sprays.

Starter sprays are highly flammable and can cause backfiring and engine damage.

3.6 Safety during the operation of vibratory plates

Danger of falling over

Operate the machine so that it cannot tip over or fall down from bordered areas, edges and steps.

Load-carrying capacity of the ground

Keep in mind that the load-carrying capacity of the earth to be compressed or bed can be greatly reduced by the effects of vibration, for example near slopes.

Avoid crushing

When operating the machine, pay particular attention to avoid being squeezed between the machine and an obstacle. Always look in the direction of travel!

Compacting on slopes

The following points must be observed if you plan to compact inclined surfaces (slopes, escarpments):

- Always stand above the machine on a slope.
- Start at the bottom of a slope (slopes that can be easily managed in an upward direction can be safely traveled in a downward direction also).
- Never stand in a position where the machine could possibly fall. A slipping or tipping machine can cause serious injuries.

Not exceeding the maximum tilt position

- Do not exceed the maximum tilt position (see chapter *Technical Data*).
- Only operate the machine at maximum tilt for short periods of time.

If you exceed the maximum tilt, the engine lubrication system will fail and thus inevitably damage important engine parts.

Check the effects of vibration

Compacting work in the vicinity of buildings can lead to structural damage. For this reason you must always check the possible effects of vibrations on surrounding buildings in the run-up to work.

You must take the following points into special consideration when evaluating the effects of vibration:

- Vibration behavior, sensitivity and resonance frequency of surrounding buildings.
- Distance of the buildings from the vibrationsite (= worksite).
- Condition of the soil.

You may need to carry out measurements to determine the vibration speed.

You must also comply with the relevant guidelines and regulations, particularly DIN 4150-3.

The foundation must also have sufficient load-bearing capacity to withstand the compaction energy. In case of doubt involve a soil mechanics specialist in the evaluation.

Wacker Neuson is not liable for any structural damage.

3.6.1 Safety when operating remote-controlled machines**Keeping remote control and receiver units clean**

Always keep the remote control and receiver units of the machine dry, clean and free of oil or grease.

The remote control and receiver units must be uncovered, and nothing may be glued onto them.

Maintaining visual contact at all times

Always aim the remote control directly at the machine during operation and maintain visual contact at all times.

Infrared signals can be reflected.

Under certain circumstances the machine can also be moved by pressing the control lever and not aiming the remote control directly at the machine.

Using different transmission channels

In order to avoid unintentionally controlling other machines within the receiving area, the machines must not be set to the same transmission channel. Risk of serious injury due to crushing.

Set different transmission channels if required.

3.7 Safety during the operation of combustion engines

Checking for signs of damage

Check the engine while switched off for leaks and cracks in the fuel line, tank and fuel cap at least once per work shift.

Do not operate the machine if there is visible damage or defects.

Have any damage or defects eliminated immediately.

Dangers during operation

Combustion engines can be dangerous, particularly during operation and when refueling.

Read and follow all safety instructions. Otherwise there is a risk of personal injury and/or damage to property!

Do not start the engine near spilt fuel or if you smell fuel – this may cause an explosion!

- Remove the machine from such areas.
- Remove the spilt fuel immediately!

Not changing the engine speed

Do not change the preset engine speed, as this may cause engine damage.

Preventing fires

Open flames and smoking are strictly prohibited in the immediate vicinity of the machine.

Make sure that waste, such as paper, dry leaves or grass do not accumulate around the exhaust muffler. The waste materials may ignite.

Safety precautions when refueling

Please observe the following safety-relevant instructions when refueling:

- Do not refuel near open flames.
- Do not smoke.
- Turn off the engine before refueling and allow it to cool down.
- Refuel in a well-ventilated environment.
- Wear fuel-proof protective gloves and, if there is the possibility of spraying, protective goggles and clothing.
- Do not inhale fuel vapors.
- Avoid skin and eye contact with fuel.
- For refueling, use clean tools such as a hopper.
- Do not spill fuel, especially onto hot parts.
- Remove any spilt fuel immediately.
- Use the correct fuel grade.
- Do not mix fuel with other liquids.
- Fill the tank only up to the maximum marking. If there is no Maximum marking, do not fill up the tank completely.
- Lock the fuel cap securely after refueling.

Operation in closed rooms

In closed or partially closed rooms such as tunnels, drifts or deep trenches, ensure sufficient ventilation by, for example, providing a powerful exhaust air fan.

Danger of poisoning! Do not inhale exhaust fumes. They contain toxic carbon monoxide that can lead to unconsciousness or death.

Caution with hot parts

Do not touch any hot parts such as the engine block or exhaust muffler during operation or directly afterwards. These parts can become very hot and cause severe burns.

Caution with hot coolant

Do not remove the radiator cap when the engine is hot. The coolant is hot and under pressure. Hot liquids can cause scalding.

Cleaning the engine

Clean the engine when it is cool to remove any dirt.

Do not use gasoline or solvents. Danger of explosion!



Notes on the EPA engine**Caution**

This machine is equipped with an EPA-certified engine.

Modifying the motor speed influences the EPA certification and emission. The motor may only be set by a skilled technician.

For more detailed information, contact your nearest motor or Wacker Neuson representative.

Health hazard due to exhaust fumes**Warning**

The engine's exhaust fumes contain chemicals which are known to the State of California to cause cancer, congenital defects or other reproductive anomalies.

3.8 Safety during the operation of hydraulic machines**Hydraulic oil**

Hydraulic oil is harmful to health.

Wear safety glasses and safety gloves when handling hydraulic oil.

Avoid direct skin contact with hydraulic oil. Remove hydraulic oil from the skin immediately with soap and water.

Make sure that no hydraulic oil comes gets in the eyes or on the body. See a physician immediately if hydraulic oil gets into the eyes or is swallowed.

Do not eat and drink while handling hydraulic oil.

Make sure to have extreme cleanliness. Contamination of the hydraulic oil with dirt or water can cause premature wear or failure of the machine.

Dispose of left over and spilled hydraulic oil according to the applicable regulations for environmental protection.

3.9 Maintenance**Maintenance work**

Service and maintenance work must only be carried out to the extent described in these operating instructions. All other procedures must be performed by your Wacker Neuson representative.

For further information, refer to chapter *Maintenance*.

Turning off engine and deactivating machine

Turn off the engine and deactivate the machine before performing service or maintenance work.

Let the machine cool off.



Disconnecting the battery

For machines with electric starter, you must disconnect the battery before working on the electronic parts.

Using only a Wacker Neuson battery

Use only Wacker Neuson batteries to replace defective batteries, see chapter *Technical Data*.

Only the Wacker Neuson battery is vibration resistant and thus suitable for the high vibratory stresses.

Working on the battery

Always take the following safety measures when working with the battery:

- No fire, sparks, or smoking while working with batteries.
- Batteries contain corrosive acid. Use acid-proof protective gloves and protective goggles when working with batteries.
- Avoid short circuits due to improper connection or bypassing with tools.
- Disconnect the negative terminal first when disconnecting the battery.
- Connect the positive terminal first when connecting the battery.
- Re-fasten terminal covers after connecting the battery.

Assembling safety devices

If it was necessary to dismantle safety devices, they must be reassembled and checked immediately after completing maintenance work.

Always tighten loosened screw connections, complying with prescribed starting torque.

Handling operating fluids safely

Observe the following points when handling operating fluids, e.g. fuels, oils, greases, coolants etc.:

- Always wear personal safety clothing.
- Avoid skin and eye contact with operating fluids.
- Do not inhale or swallow operating fluids.
- In particular, avoid contact with hot operating fluids. Burn and scalding hazard.
- Dispose of replaced or spilled operating fluids according to the applicable regulations for environmental protection.
- If operating fluids escape from the machine, cease operation of the machine and have it repaired immediately by your Wacker Neuson representative.

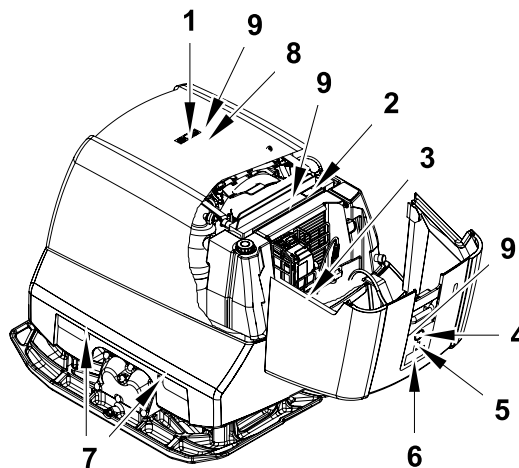
3.10 Safety and information labels

Your machine has adhesive labels containing the most important instructions and safety information.

- Make sure that all the labels are kept legible.
- Replace any missing or illegible labels.

The item numbers for the labels are in the parts book.

Safety and information labels on the machine



Item	Label	Description
1		Warning If the machine falls, it can cause severe crushing injuries. ► Only lift the machine with certified hoist and lifting tackle (safety load hook). ► Do not lift the machine with the excavator shovel by the central suspension. ► Do not lift the machine with a forklift by the central suspension.
2		Warning The coolant is under pressure. Hot coolant can spurt out and cause scalding injuries. Only open the radiator cap once the engine has cooled down.

Item	Label	Description
3		■ The label indicates how to place the remote control in the holder. ■ The label indicates how to connect the coiled helix cable to charge the battery.
4		Warning If the machine falls, it can cause severe crushing injuries. ► Do not lift the machine by the hood opener.
5		Warning Wear personal protective gear to avoid injuries or health hazards: ■ Ear protection. Read the operator's manual before start-up.
6		Guaranteed sound power level.
7		Forklift supports The label shows the lifting eyes used to lift the machine with a forklift.
8		Warning A protective hood can cause pinching injuries during closing. ► Do not reach between the machine and the protective hood when closing the protective hoods.
9	US machines 	Warning

A line drawing of a rectangular storage bin with a lid. The lid has three latches. Callout 1 points to the side of the bin, and callout 2 points to the bottom edge of the bin.

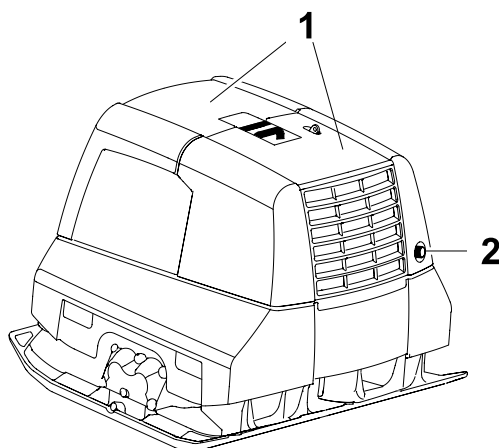
[illegible]

3.11 Safety devices

**WARNING**

Danger of injury due to open moving parts.

- ▶ Only operate the machine with properly installed and functioning safety devices.
- ▶ Do not modify or remove safety devices.



Item	Designation
1	Protective hoods
2	Emergency stop switch

Protective hoods

The protective hoods protect the user from hot engine parts and noise, and protect the machine from damage.

Emergency stop switch

The emergency stop switch is used only to turn off the machine in case of danger. When the emergency stop switch is pressed, the machine will immediately shut down completely. Operation can only continue once the emergency stop switch has been unlocked.

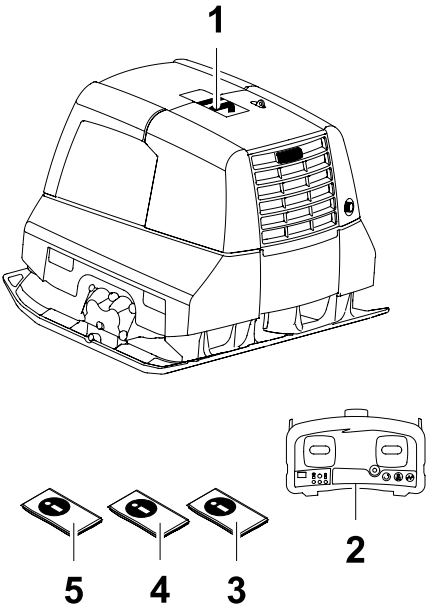
Safety shutdown of the machine

The machine is operated using an infrared remote control, and will stop vibration and movement for safety reasons in the following situations:

- When the operator comes near the machine (approx. 1-2 m from a receiver unit).
- When the user leaves the receiving area (a maximum of 20 m from the machine).
- If visual contact between the remote control and the machine's receiver unit is obstructed.
- Failure of the power supply of the remote control or the machine.

4 Scope of delivery

The machine is delivered fully assembled and after unpacking it is ready for operation.



The scope of delivery includes:

Item	Designation	Item	Designation
1	Machine	4	Machine configuration manual (contains machine's PIN data).
2	Remote control	5	Parts book
3	Operator's manual		

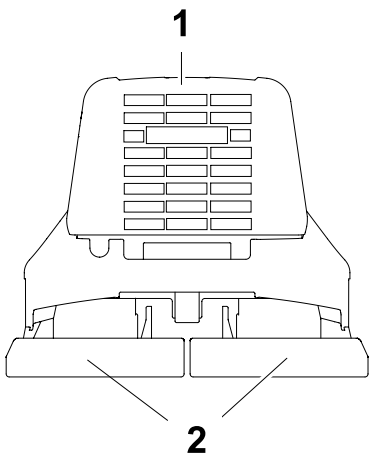
5 Structure and function

5.1 Application

Use the machine only as intended, see chapter *Safety, Proper use*.

5.2 Description

5.2.1 Principle of the machine



Item	Designation	Item	Designation
1	Upper mass	2	Base plates (left, right)

The machine consists of an upper mass with a drive motor and two independent base plates with one vibrator each.

The drive motor hydraulically drives the vibrators.

The vibrators cause vibrations, causing the base plates to vibrate, thus compacting the soil.

5.2.2 Remote control

The machine is controlled by remote control only.

The remote control commands are transmitted to the machine via infrared signal within the receiving area.

For trouble-free transmission of the infrared signal, always aim the remote control directly at one of the machine's two receiver units.

The following commands can be sent via remote control:

- Start the engine.
- Move the machine with simultaneous vibration.
- Turn on/off stand vibration.
- Move the machine fast or slowly.
- Switch off the engine.

5.2.3 Infrared system

If you press a control lever or button on the remote control, the remote control will transmit an infrared signal to one of the machine's receiver units.

The machine's receiver unit converts the infrared signal into an electronic signal. The electronic signal is then processed by the controller, which controls the machine in accordance with the command.

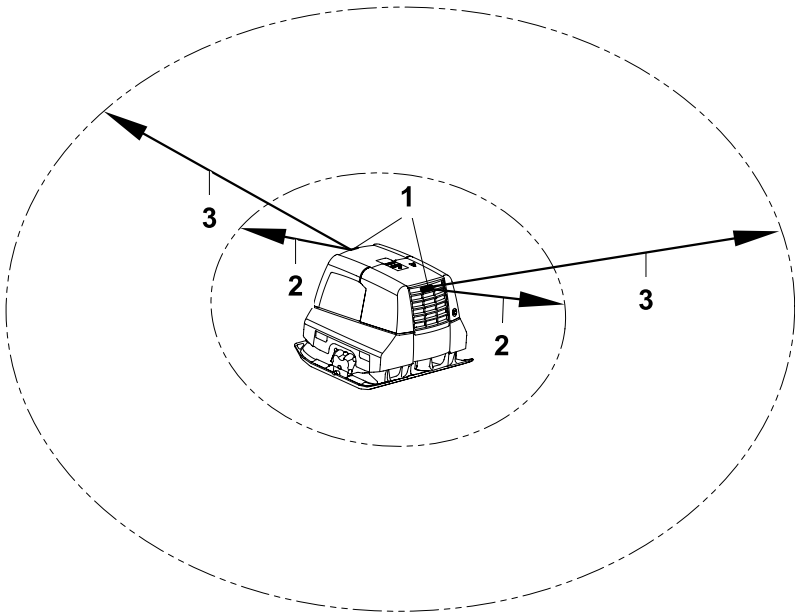
In order for the machine to be able to execute the commands, the remote control and the machine must be set to the same transmission channel.

16 different transmission channels are available; the channel can be set with a rotary switch on the remote control. When the transmission channel has been set on the remote control, this must be coordinated with the machine.

If you would like to operate several remote-controlled machines in close proximity, the machines must be set to different transmission channels.

5.2.4 Receiving area and proximity area of the machine

For safety reasons, the infrared signal can only be transmitted within certain specific areas.



Item	Designation	Item	Designation
1	Receiver unit (front, back)	3	Receiving area
2	Proximity area		

Receiving area

The machine can only be operated within the receiving area. The receiving area is approx. 20 m from one of the machine's receiver units.

Within the receiving area, visual contact must always be maintained between the remote control and the machine. If there is no visual contact, the machine will stop vibrating and moving.

If you are outside of the receiving area, the machine will not receive commands. The machine will stop vibrating and moving.

Proximity area

If the machine comes closer than approx. 1–2 m (proximity area) to the operator, the machine will stop vibrating and moving. The machine will be able to receive commands again once the operator leaves the proximity area.

If the operator is closer than approx. 1–2 m to the side of the machine or the infrared signals of the remote control are transmitted by reflection, it is **not** guaranteed that vibration and movement will stop. Risk of serious injury due to crushing.

If other persons come closer than approx. 1–2 m (proximity area) to the machine, the machine will **not** stop vibrating and moving. Shutdown in the proximity area will only function in combination with the remote control. Risk of serious injury due to crushing.

Follow the following instructions when working with the machine:

- ▶ Operate the machine from behind it and observe a minimum safety distance of 2 m.
- ▶ Ensure that no persons are in the proximity area or work area of the machine. Risk of serious injury due to crushing.

5.2.5 Diagnostic system

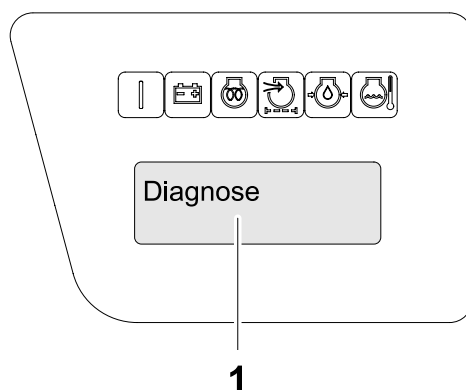
Machine diagnostic system

The machine's diagnostic system consists of a controller and sensors, which monitor various components of the machine.

If the diagnostic system detects a malfunction or error, the receiver units will indicate this by blinking or glowing red. A malfunction message with an error code will appear on the display screen.

Each error code stands for a specific malfunction. The diagnostic system can distinguish between approx. 30 error codes.

In case of severe malfunctions, the error code will be entered into the error memory, and the machine will automatically turn off the engine or deactivate.

Diagnostic menu

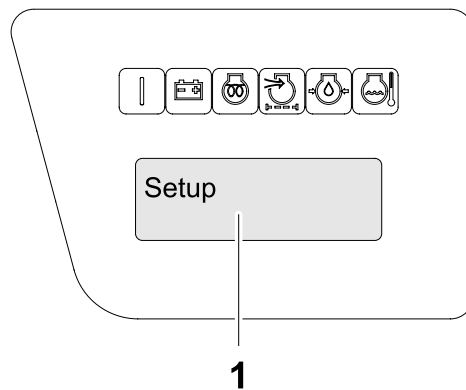
Item	Designation
1	Diagnostic menu

In the diagnostic menu on the display screen, you can call up the following information about the machine:

- Summary of all errors (error memory).
- Voltage.
- Temperature of the engine.
- Engine speed.
- Software version (SW version).

5.2.6 Machine configuration system

Configuration menu



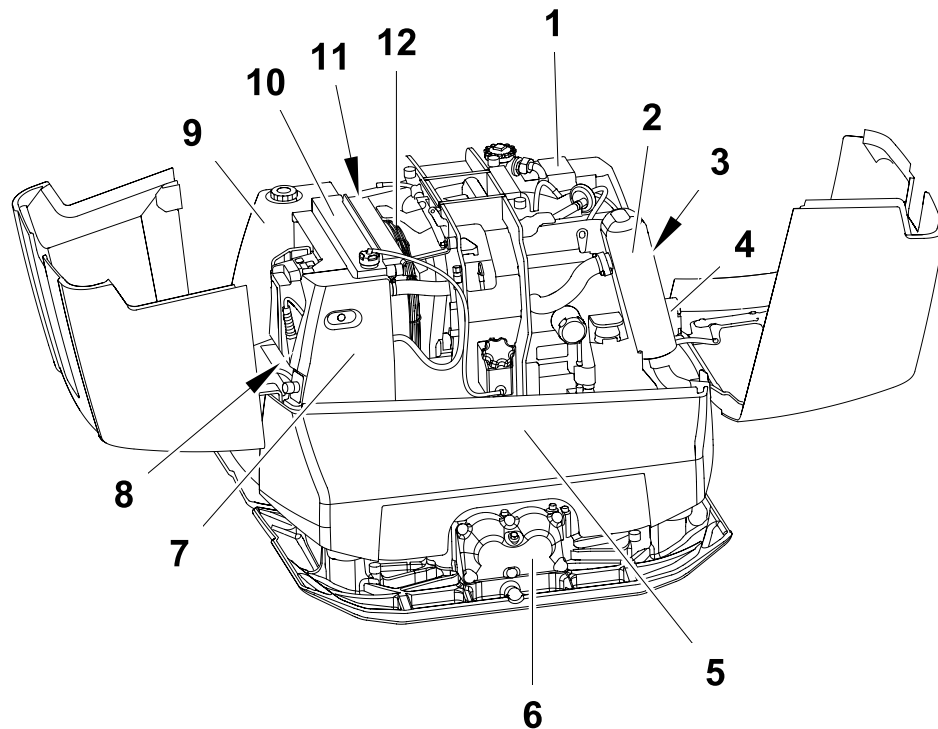
Item	Designation
1	Configuration menu

In the configuration menu on the display screen, you can adjust the following machine settings:

- Change setup PIN.
- Modify/activate/deactivate machine PIN.
- Set machine turn-off time.
- Select display language (German, English, French, Spanish, numerical code display).
- Set how the machine reacts to overload (overload sensor).

Note: The *machine configuration manual* explains how to use the configuration menu.

5.3 Functional description



Item	Designation	Item	Designation
1	Hydraulic oil tank	7	Wiring box and operator's controls
2	Muffler	8	Battery
3	Starter	9	Fuel tank
4	Gear pump	10	Radiator
5	Upper mass with drive engine	11	Air cleaner
6	Base plate with vibrator	12	Fan

The water-cooled drive motor in the upper mass hydraulically drives both vibrators of the base plate.

Both exciters are designed as central vibrators. The principle allows you to change the direction of vibration, and thus the movement of the machine, by adjusting the eccentric weights. Each exciter can be set for advance travel, reverse travel, or stand vibration independently of the other exciter.

The radiator cools both the drive motor coolant and the hydraulic oil.

The intake air is drawn in in the cold area between the radiator and the back protective hood and purified via an air cleaner with preseparation.

The thermally insulated muffler discharges the exhaust gases in a forward direction.

The glowplugs are preheated for automatic starting of the drive motor. The speed of the drive motor is controlled via a solenoid. The engine is turned off via an electrically controlled solenoid valve on the fuel filter.

The electronic control and operator's controls are located in the wiring box.

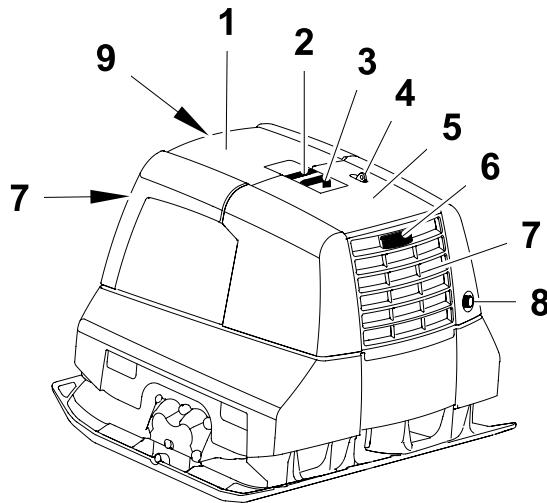
The maintenance-free battery is located under the remote control holder and coiled helix cable.

The machine is controlled by remote control only.



6 Components and operator's controls

6.1 Components and operator's controls outside the machine



Item	Designation	Item	Designation
1	Front protective hood	5	Rear protective hood
2	Central suspension	6	Receiver unit rear (red)
3	Hood opener	7	Ventilation slot (front, back)
4	Padlock eyelet	8	Emergency stop switch
9	Receiver unit front (transparent)		

Receiver units

On the front and back of the machine, there are a total of two receiver units with built-in status display. Depending on the user's position, either the front or rear receiver unit will receive the commands sent with the remote control via infrared signal.

The built-in status display indicates the current operating condition of the machine via light and flashing signals.

In order to better distinguish the front from the back of the machine, the receiver units have different colors.

Protective hoods

Both protective hoods protect the components and operator's controls of the machine from damage, and protect the user from noise.

Padlock eyelet

On the rear protective hood, there is an eyelet in which a padlock can be hung. The machine is protected from the following by a padlock:

- Opening of the protective hoods.
- Unauthorized operation.
- Lifting by the central suspension (when folded in).

Central suspension

The fold-out central suspension allows the machine to be lifted for transport.

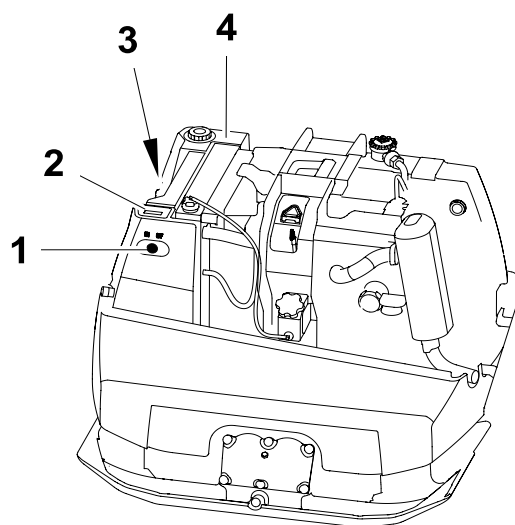
Ventilation slots

The ventilation slots of both protective hoods serve to draw in cold air and purge warm air from the machine.

Emergency stop switch

The emergency stop switch is used only to turn off the machine in case of danger. When the emergency stop switch is pressed, the machine will immediately shut down completely. Operation can only continue once the emergency stop switch has been unlocked.

6.2 Components and operator's controls inside the machine



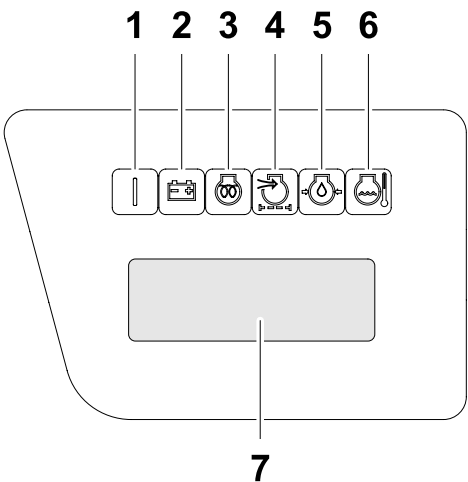
Item	Designation	Item	Designation
1	ON/OFF switch	3	Remote control and coiled helix cable holder
2	Display screen and control lamps	4	Fuel tank

ON/OFF switch

The ON/OFF switch activates the machine for startup with the remote control.
The ON/OFF switch deactivates the machine completely.

Display screen and control lamps

The display unit on the machine consists of a display screen and control lamps.



Item	Designation	Item	Designation
1	Operation control lamp	5	Oil pressure control lamp
2	Charging control lamp	6	Coolant temperature control lamp
3	Preheating control lamp	7	Display screen
4	Air cleaner control lamp		

Operation control lamp

The *Operation* control lamp indicates if the machine is activated with the ON/OFF switch.

- The *Operation* control lamp is lit in green when the machine is activated with the ON/OFF switch.
- The *Operation* control lamp extinguishes when the machine is deactivated with the ON/OFF switch.

Charging control lamp

The *Charging* control lamp indicates if the machine's battery is being charged.

- The *Charging* control lamp is lit in red if the machine is activated.
- The *Charging* control lamp extinguishes when the engine is running.
- The *Charging* control lamp is lit in red when the machine's battery is no longer being charged.

Preheating control lamp

The *Preheating* control lamp indicates whether the glowplugs are being preheated during the startup of the motor.

- The *Preheating* control lamp is lit in yellow as long as the glowplugs of the engine are being preheated during startup.
- The *Preheating* control lamp extinguishes when preheating has been completed.

Air cleaner control lamp

The *air cleaner* control lamp indicates the maintenance state of the air cleaner.

- The *Air cleaner* control lamp is lit in yellow when the air cleaner is dirty.

Oil pressure control lamp

The *Oil pressure* control lamp indicates whether the oil pressure is sufficient.

- The *Oil pressure* control lamp is lit in red if the machine is activated.
- The *Oil pressure* control lamp extinguishes when the engine is running.
- The *Oil pressure* control lamp is lit in red when the oil pressure is too low.

Coolant temperature control lamp

The *Coolant temperature* control lamp indicates whether the coolant temperature is within the permissible range.

- The *Coolant temperature* control lamp is lit in red when the coolant temperature is too high.

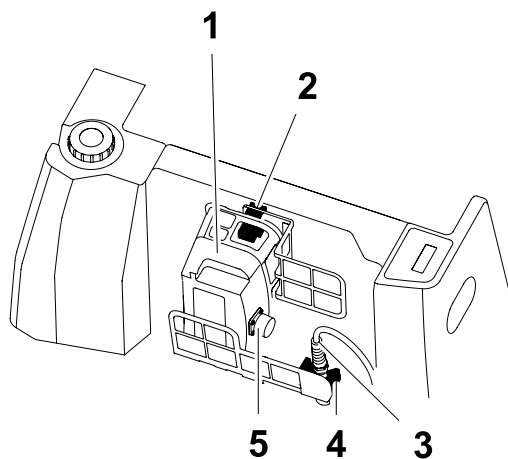
Display screen

The display screen shows the following information:

- Number of hours of operation.
- The machine's current transmission channel.
- Error conditions (see chapter *Malfunctions*).

Remote control and coiled helix cable holder

The holder serves to store, charge, and protect the remote control from damage and theft.



Item	Designation	Item	Designation
1	Remote control	4	Coiled helix cable holder
2	Remote control holder	5	Shorting plug with sealing cap
3	Coiled helix cable		

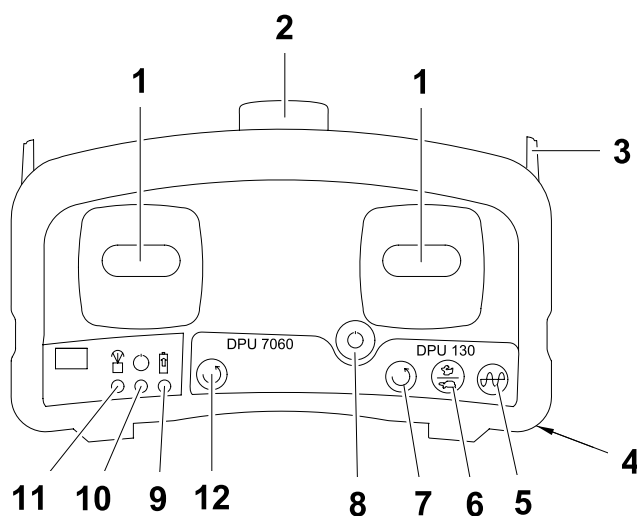
Coiled helix cable

The coiled helix cable allows for the following functions:

- Recharge remote control battery.
- Operate the machine while simultaneously charging the remote control battery.
- Coordinate the transmission channel between the remote control and the machine.

6.3 Remote control components and operator's controls

The remote control of the DPU 130Le can also be used for the DPU 7060Fe.



Item	Designation	Item	Designation
1	Control levers (left, right)	7	Engine start button
2	Coiled helix cable shorting plug	8	Remote control ON/OFF switch
3	Carrying belt	9	Charging control lamp
4	Battery	10	Operation control lamp
5	Stand vibration button	11	Diagnostic control lamp
6	Slow/fast operation button	12	Engine start button (DPU 7060Fe)

Control levers (left, right)

When a control lever is pressed, vibration starts and the machine moves.

Remote control ON/OFF switch

Turn the remote control on and off with the ON/OFF switch.

The engine is also shut down using the ON/OFF switch.

Engine start button

The start button starts the engine.

Slow/fast operation button

Use the *Slow/fast operation* button in order to switch between slow and fast operation. Fast operation is turned on by default.

- Fast operation – compaction operation.
- Slow operation – operation with reduced engine speed to traverse highly compacted surfaces or hard substructures.

Stand vibration button

If you hold the *Stand vibration* button, the machine will compact without moving in any direction.

Carrying belt

The remote control can be hung on the carrying belt.

Battery

The battery supplies the remote control with power.

The battery can be charged with the machine's coiled helix cable or the external charger (accessories).

Control lamps**Charging**

- The *Charging* control lamp is lit in green when the battery is charging.
- The *Charging* control lamp extinguishes when the battery is charged.

Operation

- The *Operation* control lamp flashes green when the remote control is turned on.
- The *Operation* control lamp will extinguish once the remote control is turned off.
- The *Operation* control lamp flashes red when the battery is low.
- The *Operation* control lamp is lit in red when the battery is discharged.

Diagnostic

- The *Diagnostic* control lamp briefly flashes green when you move a control lever or press a button on the remote control.

7 Transport



WARNING

Improper handling can result in injury or serious material damage.

- ▶ Read and follow all safety information of this operator's manual, see chapter *Safety*.
-



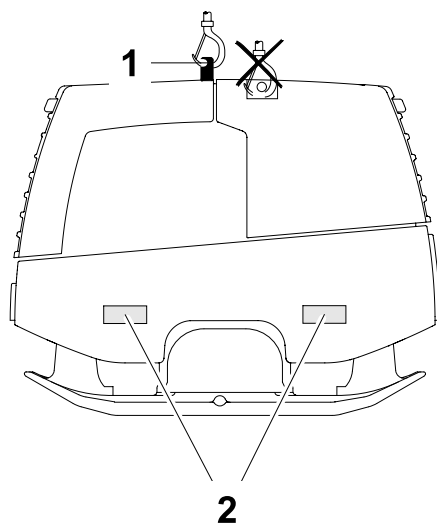
WARNING

Danger due to the machine falling.

If the machine falls, it can cause severe injury such as crushing.

- ▶ Only use suitable and tested hoisting gear and lifting tackle (safety load hooks) of sufficient lifting capacity.
 - ▶ Attach the machine firmly to the hoisting gear.
 - ▶ Only lift the machine by the central suspension or with a forklift on the forklift support.
 - ▶ Do not lift the machine with the excavator shovel or the forklift by the central suspension.
 - ▶ Do not lift the machine by the hood opener.
 - ▶ Leave the danger area while lifting.
-

7.1 Lifting the machine



Item	Designation	Item	Designation
1	Central suspension (attachment point)	2	Forklift support

Performing preparations

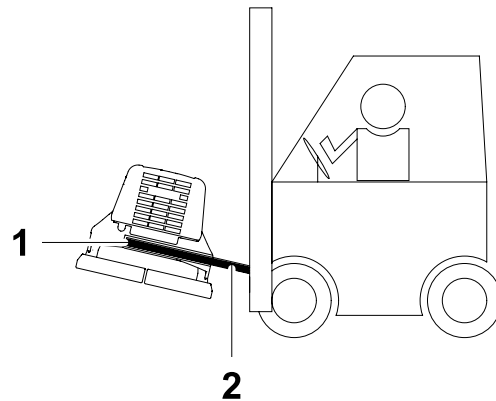
1. Place the machine upright on a flat surface.
2. Deactivate the machine.

Lifting the machine by the central suspension and transporting

Note: Designate a skilled person to ensure safety during the lifting procedure.

1. Open rear protective hood.
2. Fold central suspension out vertically.
3. Close rear protective hood.
4. Use suitable lifting tackle at the central suspension.
5. Lift the machine evenly with the hoist.
6. Carefully set the machine down on a suitable transport vehicle.

Lifting and transporting machine with forklift

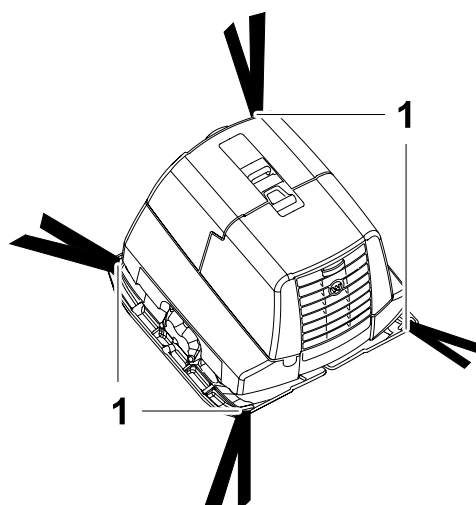


Item	Designation
1	Forklift support
2	Bearers

Note: Designate a skilled person to ensure safety during the lifting procedure.

Note: Only use bearers with a profile no larger than 125 x 50 mm.
The distance between the bearers is 550 mm.

1. Carefully insert the bearers into the forklift support until they lock into place.
2. Angle the bearers in the direction of the forklift so that the machine cannot slide down during lifting.
3. Lift the machine evenly with the forklift.
4. Carefully set the machine down on a suitable transport vehicle.

Fastening the machine securely

Item	Designation
1	Tie-down lugs

- Fasten machine with all tie-down lugs.

8 Use and operation



WARNING

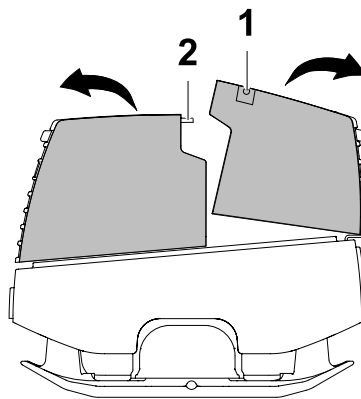
Improper handling can result in injury or serious material damage.

- Read and follow all safety information of this operator's manual, see chapter *Safety*.

8.1 Prior to starting the machine

8.1.1 Checks before startup

Opening protective hoods



Item	Designation
1	Rear protective hood opener
2	Latch of front protective hood

Opening rear protective hood

1. Pull the rear protective hood opener until it is unlocked.
2. Completely unfold rear protective hood with hood opener.

Opening front protective hood

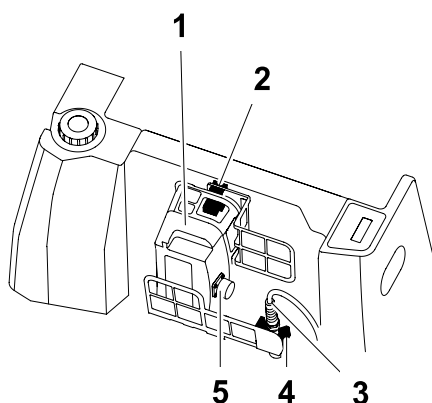
1. Pull the latch of the front protective hood opener until it is unlocked.
2. Completely unfold front protective hood.

Checking the machine

Check the following points before beginning work:

- Machine is undamaged.
- Receiver units are free of dirt.
- No objects under protective hoods (gloves, tools, etc.).
- Fuel level, see chapter *Maintenance*.
- Engine oil level, see chapter *Maintenance*.
- Coolant level, see chapter *Maintenance*.

Removing the remote control from the holder



Item	Designation	Item	Designation
1	Remote control	4	Coiled helix cable holder
2	Remote control holder	5	Shorting plug with sealing cap
3	Coiled helix cable		

1. Unscrew coiled helix cable from remote control.
2. Place coiled helix cable in holder.

NOTICE

Improper handling can cause damage to the coiled helix cable.

- Place coiled helix cable in holder so that it will not be pinched when the protective hood is closed.

3. Screw the sealing cap onto the remote control shorting plug.
4. Remove the remote control from the holder.

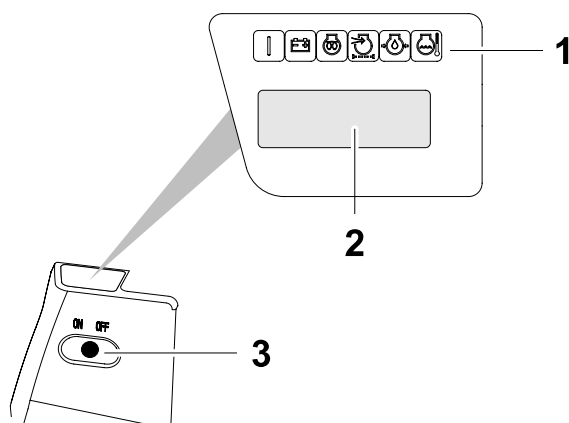
Checking remote control

Check the following points before beginning work:

- Remote control and carrying belt are undamaged.
- Remote control is free of dirt.
- Serial number of the remote control (located under the battery) matches the serial number on the machine.

8.2 Starting up

Activating machine



Item	Designation	Item	Designation
1	Control lamps	3	ON/OFF switch
2	Display screen		

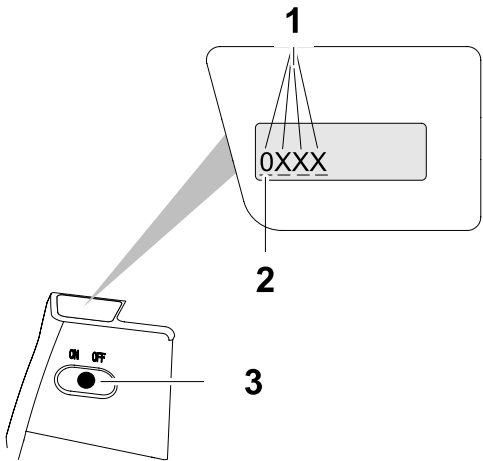
1. Press ON/OFF switch on machine.

If the machine is activated, all control lights will be lit for approx. 1 second. The display screen will show the following, one after another:

- Self-test status.
- The machine's current transmission channel.
- The last error.
- Number of hours of operation.

Entering PIN (optional)

- Note:** PIN entry is deactivated by default.
If you would like to secure your machine with a PIN, you must set the PIN in the configuration menu (see *machine configuration manual*).
- Note:** Keep the PIN secret and do not write it on the machine or remote control.

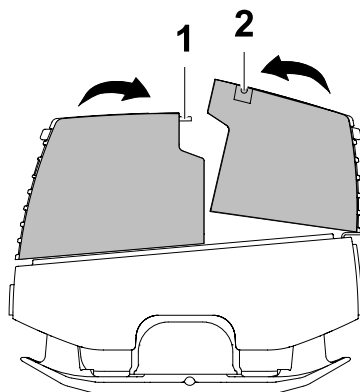


Item	Designation	Item	Designation
1	PIN number	3	ON/OFF switch
2	PIN position		

- Note:** The motor can only be started once you have entered the correct PIN with the remote control.
1. If a PIN entry prompt appears on the display screen, press the ON/OFF switch on the machine.
 2. Turn on remote control.
 3. Enter PIN:
Push the left control lever on the remote control forward or backward to select the position.
Push the right control lever on the remote control forward or backward to select the number.
 4. Once you have selected the last number, confirm the PIN by pressing the ON/OFF switch on the machine.

- Note:** If you enter the PIN incorrectly 4 times, you will have to wait approx. 5 min before entering your PIN again.
A wait prompt will appear on the display during the waiting period.

Closing protective hoods



Item	Designation
1	Latch of front protective hood
2	Rear protective hood opener

NOTICE

Improper handling can cause damage to the machine.

- First close the front protective hood, then the rear protective hood.
- Both protective hoods must be completely closed during operation.



WARNING

A protective hood can cause pinching injuries during closing.

- Do not reach between the machine and the protective hood when closing the protective hoods.
- First close the front protective hood, then the rear protective hood.

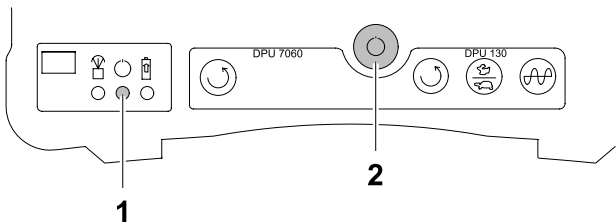
Closing the front protective hood

- Grasp the front protective hood with both hands above the receiver unit and close completely.
The protective hood is completely closed when it locks into place.

Closing rear protective hood

- Lift up the rear protective hood with the hood opener and close it completely.
The protective hood is completely closed when it locks into place.

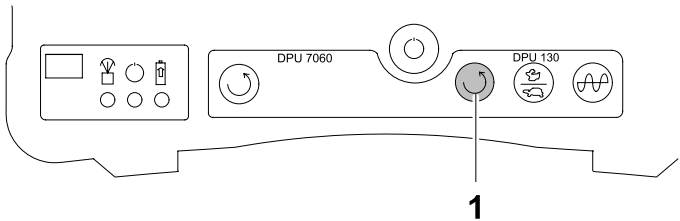
Turning on remote control



Item	Designation
1	Operation control lamp
2	ON/OFF switch

1. Press ON/OFF switch on remote control.
The *Operation* control lamp flashes green when the remote control is turned on.
Note: The *Operation* control lamp is lit or flashes red when the battery needs to be charged.
2. Carry the remote control by means of the carrying belt.

Starting the engine



Item	Designation
1	Start button

1. Aim the remote control directly at a receiver unit.
 2. Briefly hold the start button on the remote control until the engine starts.
The machine is ready for operation when the receiver units flash yellow.
- Note:** Startup can take up to 2 minutes.
As long as the receiver units are lit in red, the automatic startup procedure is in progress. Depending on the operating temperature of the machine, the glowplugs may be preheated and a warmup may occur.

8.3 Operating the machine

8.3.1 Machine's directions of movement

The following table shows how the machine moves when you press the respective control lever on the remote control.

Remote control control lever	Machine movement
	No movement
	Forward
	Reverse
	Stand rotation left
	Stand rotation right
	Left curve forwards
	Left curve backwards
	Right curve forwards
	Right curve backwards

8.3.2 Note on the machine's directions of movement

The machine's direction of movement is independent of the user's position. Depending on the machine, it will always move in a forward direction when you press the control lever on the remote control **forward**.

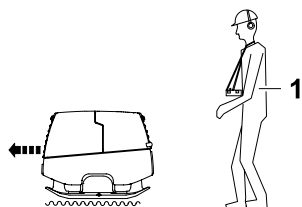


WARNING

Getting the movement direction of the machine wrong puts other people at risk of crushing.

- ▶ Operate the machine from **behind it** and observe a minimum safety distance of 2 m.
- ▶ Ensure that no persons are in the proximity area or work area of the machine.

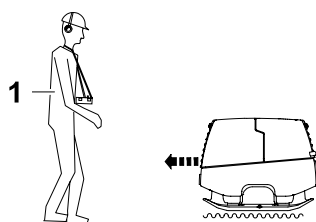
User behind machine



Item	Designation
1	User behind machine

You are behind the machine and press both control levers forward. The machine moves **forward** and away from you.

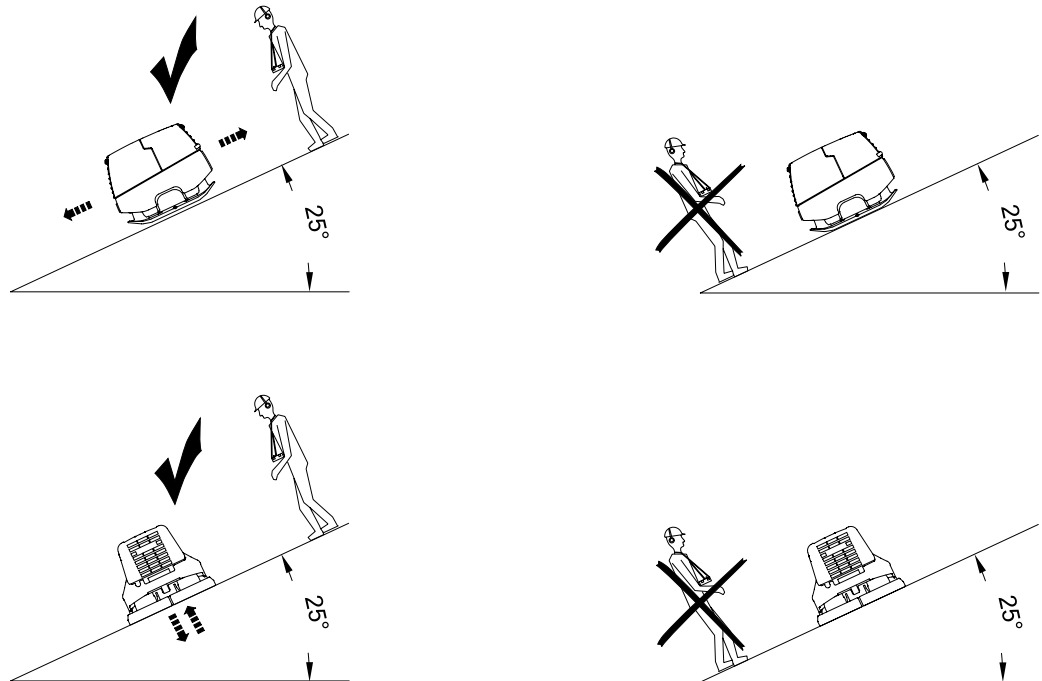
User in front of machine



Item	Designation
1	User in front of machine

You are in front of the machine and press both control levers forward. The machine moves **forward** and towards you.

8.3.3 Compacting on a slope



Compacting on slopes

The following points must be observed if you plan to compact inclined surfaces (slopes, escarpments):

- Always stand above the machine on a slope.
- Start at the bottom of a slope (slopes that can be easily managed in an upward direction can be safely traveled in a downward direction also).
- Never stand in a position where the machine could possibly fall. A slipping or tipping machine can cause serious injuries.

Not exceeding the maximum tilt position

- Do not exceed the maximum tilt position (see chapter *Technical Data*).
- Only operate the machine at maximum tilt for short periods of time.

If you exceed the maximum tilt, the engine lubrication system will fail and thus inevitably damage important engine parts.

8.3.4 Moving and stopping the machine

Moving the machine

- Press the control levers on the remote control, and hold them in the desired position.

The machine will start vibrating and move in the desired direction.

The further forward or backward you press the control levers, the faster the machine will move.

Stopping the machine

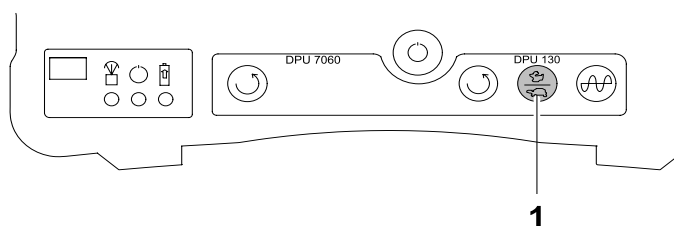
- Release both control levers on the remote control.

The machine will stop vibrating and moving.

After approx. 6 seconds, the engine will switch to idling.

8.3.5 Turning on and off slow/fast operation

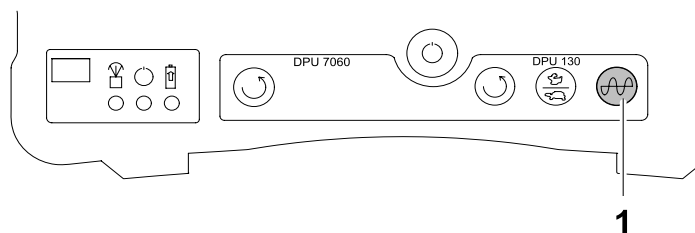
Note: Fast operation is turned on by default.
Slow operation is only intended for traversing highly compressed surfaces or hard substructures.



Item	Designation
1	Slow/fast operation button

- Press the *Slow/fast operation* button in order to switch between slow and fast operation.
The machine is in slow operation when the receiver units flash yellow slowly.

8.3.6 Turning on/off stand vibration



Item	Designation
1	Stand vibration button

Turning on stand vibration

- Press and hold *Stand vibration* button.

The machine will compact at the current location without moving in any direction.

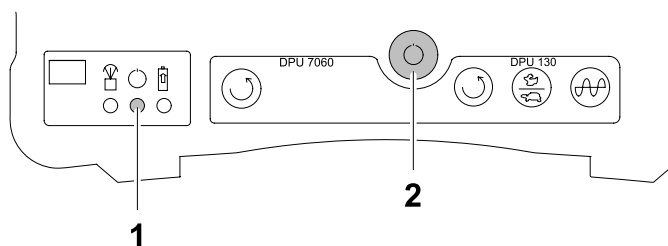
Turning off stand vibration

- Release *Stand vibration* button.

The machine will return to normal operation.

8.4 Decommissioning

Turning off remote control and engine



Item	Designation
1	Operation control lamp
2	ON/OFF switch

1. Release both control levers on the remote control.
2. Aim the remote control directly at a receiver unit.
Note: If you do not aim the remote control directly at the receiver unit, you may only turn off the remote control.
3. Press the ON/OFF switch on the remote control in order to turn off the engine and remote control.

The *Operation* control lamp will extinguish once the remote control is turned off.

Note: If you do not turn off the remote control, it will automatically turn off after approx. 10 minutes.

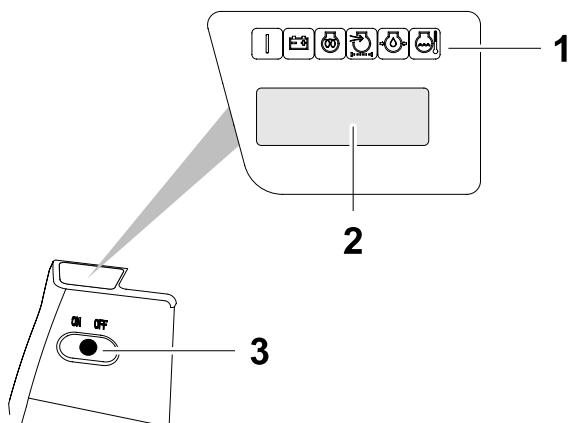
Deactivating the machine



WARNING

Unauthorized persons operating the machine can cause serious injuries.

- ▶ Ensure that no unauthorized persons have access to the machine and remote control.
- ▶ Always secure the remote control in a safe place, e.g. inside the locked machine.



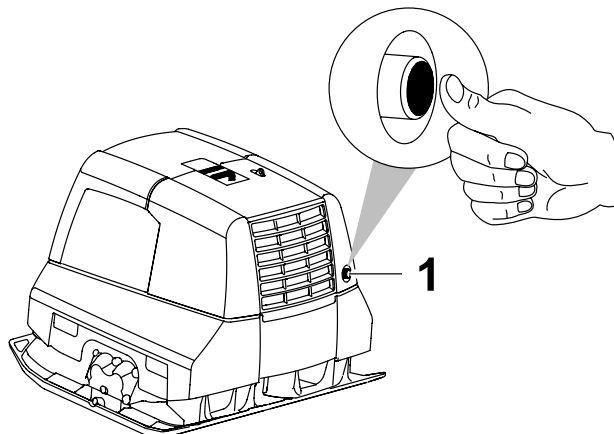
Item	Designation	Item	Designation
1	Control lamps	3	ON/OFF switch
2	Display screen		

1. Open rear protective hood.
2. Press the ON/OFF switch on the machine to deactivate the machine. The machine is deactivated when the *Operation* control lamp and the receiver units extinguish.
3. Recharge the remote control battery with the coiled helix cable.
4. Close rear protective hood.

Note: If you do not deactivate the machine, it will automatically deactivate after approx. 1 hour (factory default setting). You can set the turn-off time in the configuration menu.

8.5 Turning off the machine in an emergency (emergency stop)

Note: The emergency stop switch is a safety device and is only used to immediately stop the machine in an emergency.



Item	Designation
1	Emergency stop switch

Turning off the machine in an emergency

- Press emergency stop switch.

The machine will stop moving and vibrating and deactivate automatically.

Unlocking the emergency stop switch

- Turn the emergency stop switch to the left.

You can reactivate the machine now.

8.6 Recharging remote control battery

Note: It may not be possible to recharge the battery at temperatures below 0 °C.

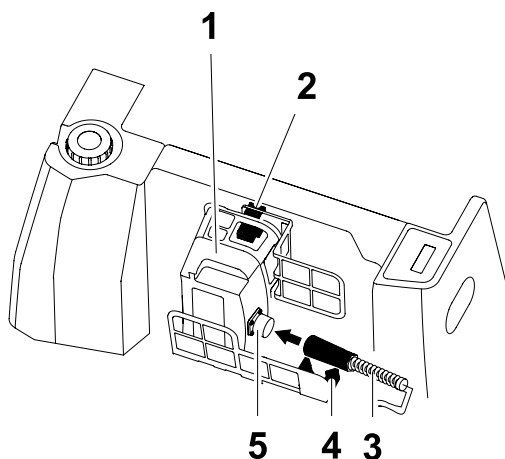
8.6.1 Charging the battery with the coiled helix cable

Note: After connecting the coiled helix cable to the remote control, the battery is charged once. It is not possible to overcharge the battery; therefore you do not have to disconnect the coiled helix cable from the

remote control after charging. Note that the battery discharges slowly when the machine has been idle for a long period and it may be necessary to charge it again.

Note: While you are charging the battery with the coiled helix cable, you can continue operating the machine. In this case, feed the coiled helix cable through the recess under the ventilation slots of the rear protective hood and the machine.

Connecting the coiled helix cable



Item	Designation	Item	Designation
1	Remote control	4	Coiled helix cable holder
2	Remote control holder	5	Shorting plug with sealing cap
3	Coiled helix cable		

NOTICE

Improper handling can cause damage to the coiled helix cable.

- When using the coiled helix cable, take care that it is not pinched when closing the protective hood.

1. Open rear protective hood.
 2. Unscrew the sealing cap from the remote control shorting plug.
 3. Remove the coiled helix cable from the holder.
 4. Connect the coiled helix cable to the remote control shorting plug and screw it on.
- When the battery is charging, the *Charging* control lamp on the remote

control is lit in green.

When the battery is charged, the *Charging* control lamp on the remote control will go out.

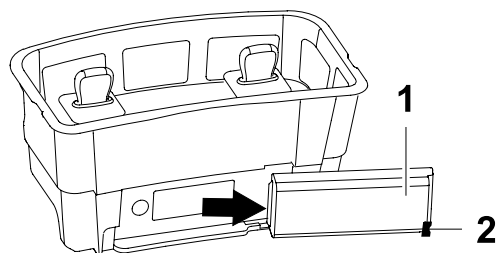
5. Place remote control in holder.
6. Close rear protective hood.

8.6.2 Charging battery with external charger

Use only the external charger available from your Wacker Neuson representative.

Do not use any chargers from other manufacturers.

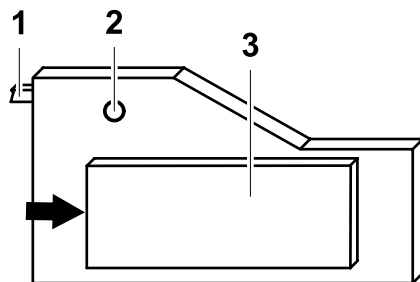
Removing battery from remote control



Item	Designation
1	Battery
2	Lug

- Press the lug while pulling the battery out to the right.

Charging battery with external charger

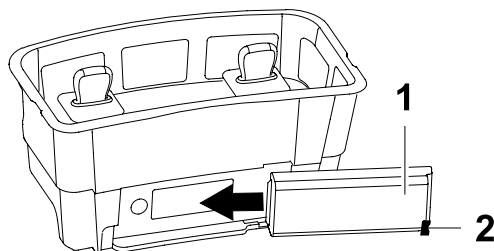


Item	Designation	Item	Designation
1	Connector plug	3	Battery
2	Status control lamp		

Note: Before the first charging, read the charger instructions.

1. Place battery in external charger.
2. Connect the country-specific connector plug to the charger.
3. Insert the charger plug into the plug receptacle.
The status control lamp is lit in orange when the battery is charging.
The status control lamp flashes orange when the battery is charged.
4. Pull the plug from the receptacle when the battery is charged.
5. Removing battery from external charger

Inserting battery into remote control



Item	Designation
1	Battery
2	Lug

- Insert battery into remote control until lug locks into place.

8.7 Setting transmission channel

The machine can only be operated when the transmission channel of the machine is the same as that of the remote control.

16 different transmission channels are available; the channel can be set with a rotary switch on the remote control. When the transmission channel has been set on the remote control, this must be coordinated with the machine.

It may be necessary to set the transmission channel in the following cases:

- Operating multiple remote controlled machines within the receiving area.
- If the transmission channel was adjusted on the remote control or the remote control was replaced with another one.

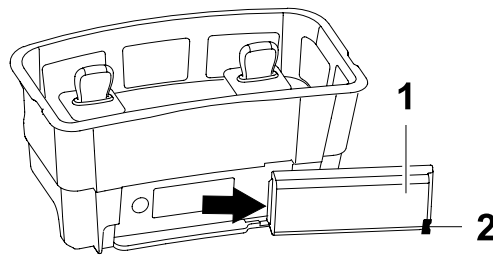


WARNING

Unintentionally controlling multiple machines within the receiving area.
Risk of serious injury due to crushing.

- Set machines to different transmission channels when operating multiple machines within the receiving area.

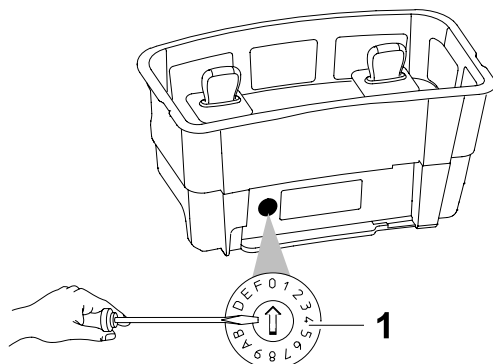
Removing battery from remote control



Item	Designation
1	Battery
2	Lug

- Press the lug while pulling the battery out to the right.

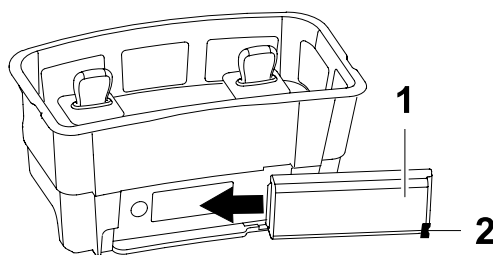
Setting transmission channel on the remote control



Item	Designation
1	Rotary switch

- Set to one of the 16 transmission channels by turning the switch with a small screwdriver.

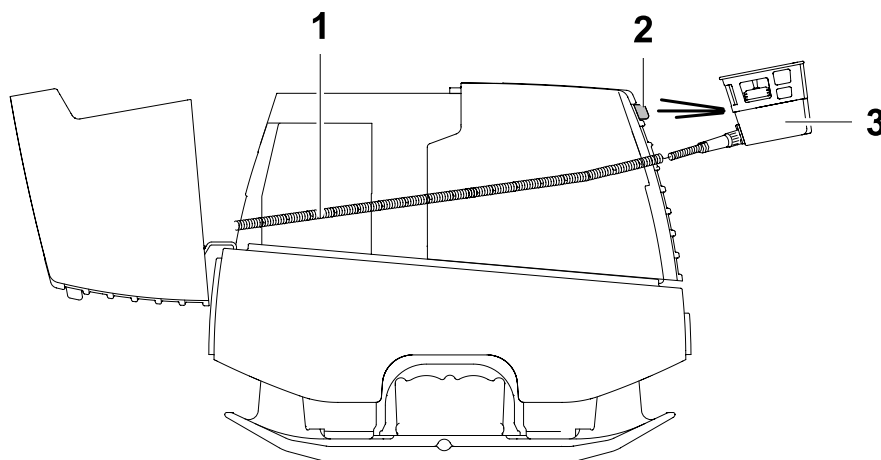
Inserting battery into remote control



Item	Designation
1	Battery
2	Lug

- Insert battery into remote control until lug locks into place.

Coordinating the transmission channel between the remote control and the machine



Item	Designation	Item	Designation
1	Coiled helix cable	3	Remote control
2	Receiver unit front	4	

1. Turn on remote control.
 2. Activate machine.
 3. Remove the coiled helix cable from the holder.
 4. Unscrew the sealing cap from the remote control shorting plug.
 5. Connect the coiled helix cable to the remote control shorting plug and screw it on.
 6. Aim the remote control directly at the front receiver unit.
The display screen shows *IR transfer, Address comp.*
- If the receiver units flash yellow and the display screen shows the hours of operation, the coordination of the transmission channel has been completed.
7. Unscrew coiled helix cable from remote control.
 8. Place coiled helix cable in holder.

NOTICE

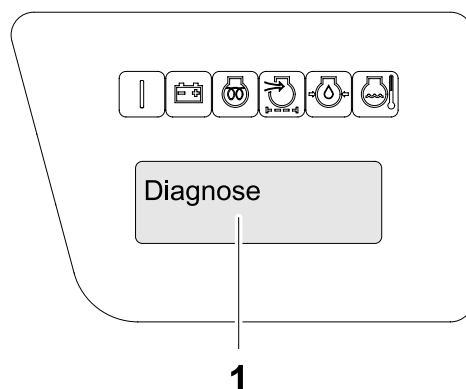
Improper handling can cause damage to the coiled helix cable.

- When using the coiled helix cable, take care that it is not pinched when closing the protective hood.

9. Screw the sealing cap onto the remote control shorting plug.

8.8 Using the diagnostic menu

Diagnostic menu



Item	Designation
1	Diagnostic menu

In the diagnostic menu on the display screen, you can call up the following information about the machine:

- Summary of all errors (error memory).
- Voltage.
- Temperature of the engine.
- Engine speed.
- Software version (SW version).

Calling up diagnostic menu

1. Activate machine.
2. Turn on remote control.
3. Hold ON/OFF switch on the machine for at least 3 seconds.
4. Press the ON/OFF switch on the machine until the desired menu item appears on the display screen.
5. To leave the diagnostic menu, press the ON/OFF switch on the machine until *Diagnose Exit* appears on the display screen.

Note: After a short wait period the machine will switch back to its normal operating state.

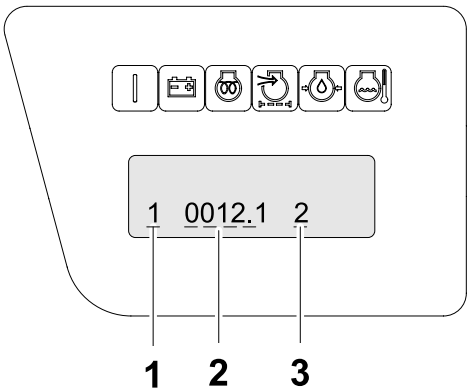
Calling up error memory

All errors (max. 56) are saved in the error memory with the appropriate error code. The hour of operation in which the error occurred is also saved.

The system issues a serial number to each error. The most recent error is saved with the highest number.

The display screen displays the following information in sequence:

- Serial number, hour of operation, error code.
- Error message.



Item	Designation	Item	Designation
1	Serial number	3	Error code
2	Hour of operation		

1. Call up the *error memory* entry in the diagnostic menu.
2. Push the left control lever on the remote control forward or backward to select the saved error.

Note: The error message is displayed as a numerical code if you set the menu language to numerical code display.
You can match each error code to the corresponding error message in the chapter *Troubleshooting*.

8.9 Using the configuration menu

Note: The *machine configuration manual* explains how to use the configuration menu.

9 Maintenance



WARNING

Improper handling can result in injury or serious material damage.

- Read and follow all safety information of this operator's manual, see chapter *Safety*.



WARNING

Danger of poisoning by exhaust fumes.

Exhaust fumes contain toxic carbon monoxide that can lead to unconsciousness or death.

- Only perform maintenance work while the engine is turned off and the machine is deactivated.



WARNING

Injury may be caused by uncontrolled startup and moving parts.

- Only perform maintenance work while the engine is turned off and the machine is deactivated.

9.1 Maintenance schedule

9.1.1 One-time maintenance after initial operation

Note: The following maintenance tasks need only be performed after initial operation at this interval.

Maintenance work	After the first 50 hours
Change drive motor engine oil and oil filter.	■



9.1.2 Daily maintenance tasks

Maintenance work	Daily before operation	Daily after operation
Check machine and remote control for any damage (visual check).	■	
Top up fuel if necessary – clean fuel filter if necessary.	■	
Check oil level – top up engine oil if necessary.	■	
Check coolant level – top up coolant if necessary.	■	
Check radiator for dirt – clean if necessary.	■	
Check air cleaner for tight fit, damage, and dirt on the dust discharge valve.	■	
Check machine for leaks (visual check): ■ Fuel system. ■ Engine. ■ Hydraulic. ■ Exciter/base plate.	■	
Clean machine and remote control.		■

9.1.3 Regular maintenance

Maintenance work	Every 125 hours	Every 250 hours	Every 500 hours
Check the functionality of the proximity recognition sensor.	■		
Check hydraulic oil level, have hydraulic oil topped up if necessary.	■		
Have hydraulic hoses checked for damage or leaks – have them changed if necessary. *	■		



Maintenance work	Every 125 hours	Every 250 hours	Every 500 hours
Check the base plate vibration dampers for damage – have them changed, if necessary. *	■		
Have the fastening screws checked for tightness: * ■ Division bar. ■ Central suspension. ■ Hydraulic oil tank ■ Base plate vibration dampers.	■		
Check exciter oil level – fill if necessary.	■		
Lubricate the protective hood locks.	■		
Check central suspension for signs of damage.	■		
Change drive motor engine oil and oil filter.		■	
Have the fuel filter replaced. *		■	
Change air cleaner cartridge – if the <i>Air cleaner</i> control lamp is lit, even before the scheduled time.		■	
Check the fan's V-belt tension – if necessary, add tension to the V-belt. *		■	
Have engine cooling system hoses and clamps checked. *		■	
Have air induction system hoses and clamps checked. *		■	
Have exciter oil changed. *		■	
Check the radiator antifreeze.		■	
Have hydraulic oil filter with breather filter changed. *			■
Have drive engine valve clearance checked – have them adjusted, if necessary. *			■



- * Have these tasks carried out by the service department of your Wacker Neuson contact person.

Regular maintenance

Maintenance work	Every 1000 hours or every 2 years	Every 4000 hours or every 4 years	Every 6 years
Have hydraulic oil changed. *	■		
Have coolant changed. *	■		
Have drive motor drivebelt changed. *		■	
Have all hydraulic hoses replaced. *			■

- * Have these tasks carried out by the service department of your Wacker Neuson contact person.



9.2 Maintenance work

9.2.1 Cleaning machine and remote control



WARNING

Use of improper cleaning agents may lead to fire or explosion.

- ▶ Do not use gasoline or any other solvents to clean components.
-

NOTICE

Permeating water may damage engine or electrical components of the machine.

- ▶ Do not aim water jets at the engine or electrical parts.
 - ▶ Do not use high pressure washers or chemical cleaners.
-

Cleaning machine

- ▶ Spray off the inside and outside of the machine with water.

Cleaning remote control

- ▶ Clean remote control with damp towel.

9.2.2 Topping up with fuel



WARNING

Danger of fire and explosions by fuel and fuel vapors.

- ▶ Do not smoke.
 - ▶ Do not refuel near open flames.
 - ▶ Turn off the engine before refueling and allow it to cool down.
-



CAUTION

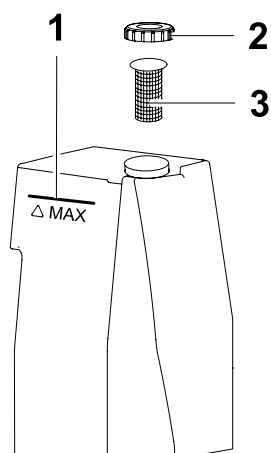
Health hazard due to fuel.

- ▶ Refuel in a well-ventilated environment.
 - ▶ Do not inhale fuel vapors.
 - ▶ Avoid skin and eye contact with fuel.
-

Performing preparations

1. Place the machine upright on a flat surface.
2. Open rear protective hood.
3. Deactivate the machine.

Topping up with fuel

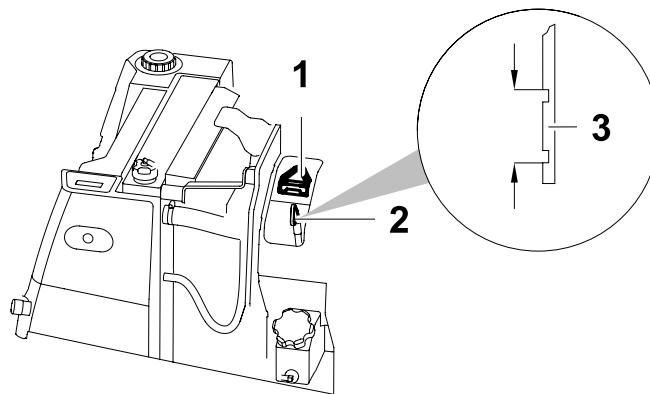


Item	Designation	Item	Designation
1	Maximum marking	3	Fuel filter
2	Fuel cap		

1. Remove any dirt around the fuel cap.
2. Unscrew and remove the fuel tank lid.
3. If necessary, remove and clean the dirty fuel filter.
Replace fuel filter before refilling.
4. Replenish the fuel to the maximum mark (see chapter *Technical data* for the fuel type).
5. Position the fuel cap and tighten it.
6. Close rear protective hood.

Note: Dispose of dirt on the fuel filter according to the applicable regulations for environmental protection.

9.2.3 Checking motor oil level and topping up engine oil



Item	Designation	Item	Designation
1	Oil cap	3	Mark
2	Oil level dipstick		

Performing preparations

1. Place the machine upright on a flat surface.
2. Open both protective hoods.
3. Deactivate the machine.

Checking engine oil level

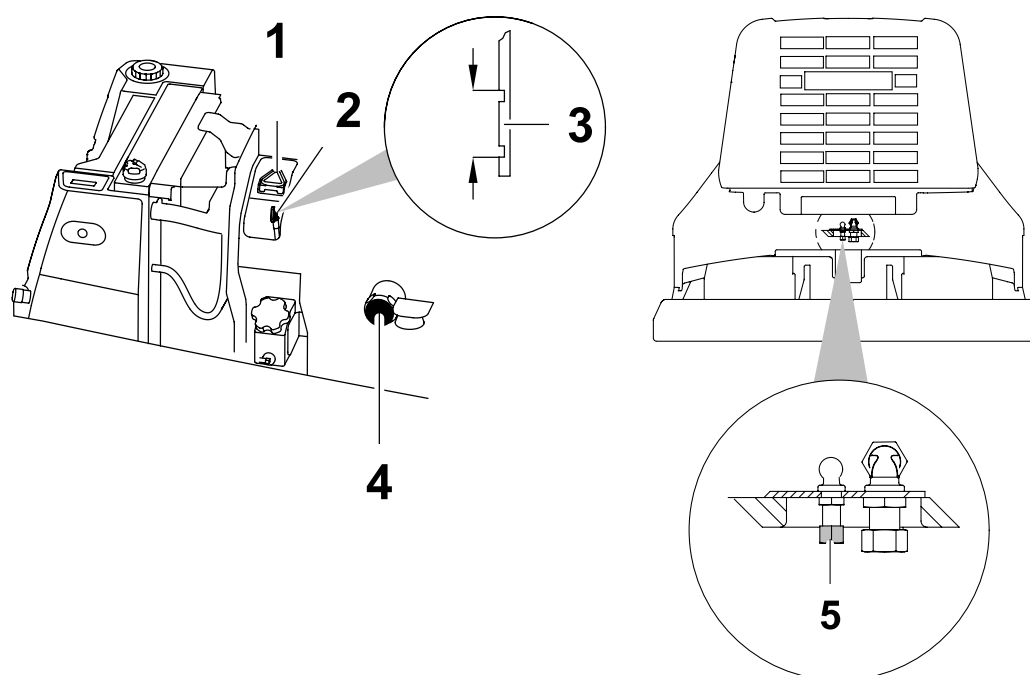
1. Remove any dirt around the oil level dipstick.
2. Pull out dipstick.
3. Wipe off dipstick with dry, lint free towel.
4. Fully insert dipstick.
5. Pull out dipstick.
6. Check whether the oil is between the lower and upper mark on the dipstick.

Note: The oil volume between the upper and lower mark is 1.3 liters.

Topping up with engine oil

1. Remove dirt around the oil cap.
2. Remove oil cap.
3. If necessary, pour motor oil into the opening until the upper mark is reached on the oil level dipstick (see chapter *Technical data* for oil type).
4. Replace and fasten oil cap.
5. Wipe off any spilled oil.

Note: Dispose of the oil in accordance with the applicable environmental regulations.

9.2.4 Changing the engine oil

Item	Designation	Item	Designation
1	Oil cap	4	Oil filter
2	Oil level dipstick	5	Oil drain plug
3	Mark		

Performing preparations

Note: Change oil when the engine is lukewarm so that the oil can completely run out.

1. Place the machine upright on a flat surface.
2. Open both protective hoods.
3. Deactivate the machine.
4. Lay out impermeable sheet over the workspace to protect the ground from the oil.
5. Have a collection container of sufficient size ready.

Draining engine oil and changing oil filter

1. Place the collection container under the oil filter.
1. Unscrew and remove the oil filter.
Collect the emerging oil while unscrewing the filter.
2. Place the collection container under the oil drain plug.
3. Loosen the oil drain plug.
4. Once the oil has completely drained out, screw in and fasten the oil drain plug.
5. Screw in a new oil filter and tighten it by hand.

Note: Dispose of the oil in accordance with the applicable environmental regulations.

Pouring in engine oil

1. Remove dirt around the oil cap.
2. Remove oil cap.
3. Pour oil into the opening with a funnel until the upper mark is reached on the oil level dipstick (see chapter *Technical data* for oil specification and amount).
4. Replace and fasten oil cap.
5. Wipe off any spilled oil.
6. Let the engine run for a short while.
7. Switch off the engine.
8. Check oil level and fill oil if necessary.

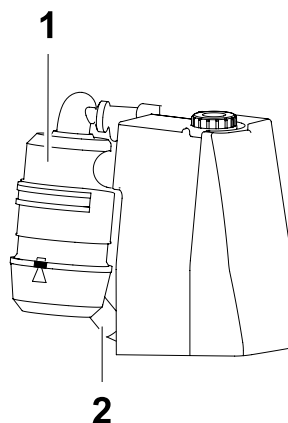
Note: Dispose of the oil in accordance with the applicable environmental regulations.

9.2.5 Checking/cleaning/replacing air cleaner

Performing preparations

1. Place the machine upright on a flat surface.
2. Open rear protective hood.
3. Deactivate the machine.

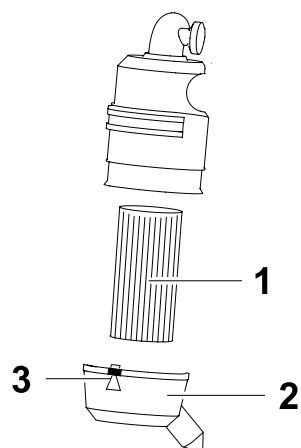
Checking air cleaner



Item	Designation
1	Air cleaner
2	Dust discharge valve

- Check whether the air cleaner clamps are fitted securely and whether the air cleaner is undamaged.
- Check whether the dust discharge valve is dirty.
If necessary, compress the dust discharge valve in order to remove the dirt.

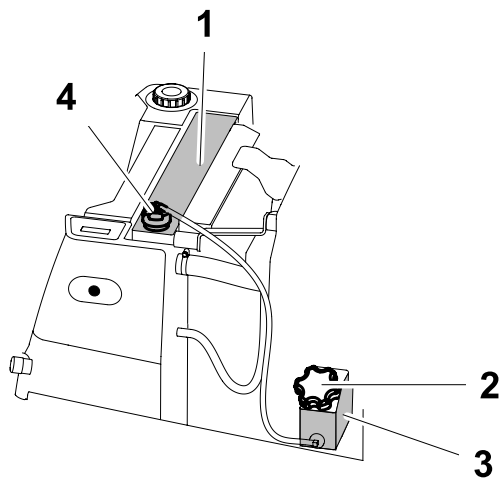
Changing air cleaner cartridge



Item	Designation	Item	Designation
1	Air cleaner cartridge	3	Clamp (2 pieces)
2	Bottom of housing		

1. Loosen clamps and remove bottom of housing.
2. Remove air cleaner cartridge.
3. Clean bottom of housing.
4. Insert air cleaner cartridge.
5. Replace the bottom of the housing and close the clamps.

9.2.6 Checking coolant level and topping up coolant



Item	Designation	Item	Designation
1	Radiator	3	Coolant reservoir
2	Coolant reservoir cap	4	Radiator cap

Performing preparations

1. Place the machine upright on a flat surface.
2. Open both protective hoods.
3. Deactivate the machine.
4. Let machine cool off.

Checking coolant level on coolant reservoir

1. Remove any dirt around the coolant reservoir.
2. Check whether the coolant level is in the middle between the lower and upper mark on the coolant reservoir.

Topping up coolant in coolant reservoir

1. Unscrew and remove coolant reservoir cap.
2. If necessary, add coolant until the coolant level is in the middle between the upper and lower mark.

See chapter *Technical data* for the coolant specification.

3. Replace and tighten coolant reservoir cap.

Checking coolant level in radiator



WARNING

The cooling system is under pressure.

Hot coolant can spurt out and cause scalding injuries.

- ▶ Only open the radiator cap once the engine has cooled down.
-

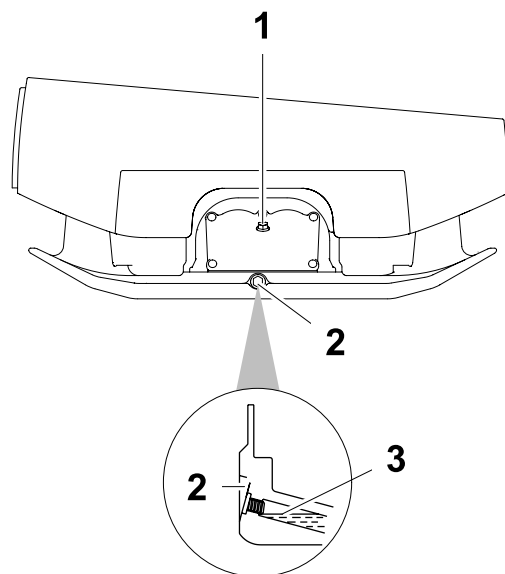
1. Remove any dirt around the radiator cap.
2. Slowly unscrew and remove radiator cap.
3. Check if the coolant reaches the lower edge of the filler neck.

Topping up coolant in radiator

Note: If the machine is losing coolant, check the cooling system for leaks and have the machine repaired by the Wacker Neuson representative.

1. If necessary, add coolant up to the upper edge of the filler neck (for coolant specification, see Chapter *Technical data*).
2. Replace the radiator cap and tighten it.

9.2.7 Checking exciter oil level and topping up exciter oil



Item	Designation	Item	Designation
1	Filling neck screw plug with sealing ring	3	Exciter oil level
2	Oil drain opening screw plug with sealing ring		

Performing preparations

1. Place the machine upright on a flat surface.
2. Open rear protective hood.
3. Deactivate the machine.
4. Let machine cool off.
5. Lay out impermeable sheet over the workspace to protect the ground from the oil.

Checking exciter oil level

Note: The machine has two exciters; therefore, you must always check the exciter oil level of both exciters.



WARNING

Hot exciter oil can spill, causing scalding injuries.

- ▶ Do not open the screw plug on the exciter while the exciter oil is hot.
 - ▶ Let machine cool off.
-

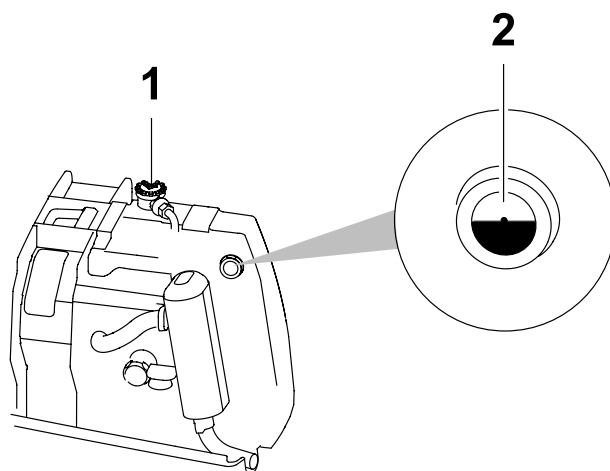
1. Remove any dirt around the screw plugs.
2. Unscrew the screw plug on the oil filler neck and remove complete with sealing ring.
3. Check whether the exciter oil reaches the start of the thread of the filler hole.

Topping up exciter oil

1. Unscrew the screw plug on the oil filler neck and remove with sealing ring.
2. Top up the exciter oil with a clean funnel at the filler neck until the exciter oil reaches the lower start of the thread on the oil drain hole (for oil specifications see Chapter *Technical Data*).
3. Screw in the oil filler neck screw plug along with a new sealing ring and tighten it (torque 100 Nm).
4. Screw in the oil filler neck screw plug along with a new sealing ring and tighten it (torque 100 Nm).
5. Wipe off any spilled oil.

Note: Dispose of spilt oil in accordance with the applicable environmental regulations.

9.2.8 Checking hydraulic oil level and refilling hydraulic oil



Item	Designation
1	Hydraulic oil tank cap
2	Oil level glass

Performing preparations

1. Place the machine upright on a flat surface.
2. Open both protective hoods.
3. Deactivate the machine.
4. Let machine cool off.

Checking the hydraulic oil level

- Check if the hydraulic oil reaches the middle of the oil level glass.

Topping up with hydraulic oil

Note: If the machine is losing hydraulic oil, check the hydraulic lines for leaks and have the machine repaired by the Wacker Neuson representative.



WARNING

Hot hydraulic oil can cause scalding injuries.

- ▶ Do not open the screw plug on the hydraulic oil tank while the hydraulic oil is hot.
 - ▶ Let machine cool off.
-

1. Remove any dirt around the hydraulic oil tank.
2. Unscrew and remove hydraulic oil tank cap.
3. Add hydraulic oil until the hydraulic oil reaches the middle of the oil level glass (for oil specifications see Chapter *Technical Data*).
4. Replace the hydraulic oil tank cap and screw it on tightly (torque 10 Nm). Make sure that the cap seal is correctly positioned.

10 Troubleshooting

Potential faults, their causes and remedies can be found in the following table.

Notify your Wacker Neuson contact in case of malfunctions you cannot or may not remedy yourself.

10.1 Procedure in case of malfunctions

1. Switch off the engine.
2. Check whether any malfunction messages appear on the receiver units, the display screen, or the control lamps.
3. Deactivate the machine.
4. Let the machine cool off, if necessary.
5. Eliminate the malfunction based on the following tables.
6. Activate machine.
7. Start the engine.
8. Check whether the machine is still malfunctioning.

If the malfunction cannot be eliminated using the remedy described, contact your Wacker Neuson representative.



10.2 Machine malfunctions

Malfunction	Cause	Remedy
Engine does not start.	Emergency stop switch was pressed.	Unlock emergency stop switch.
	Battery is discharged.	Jumpstart with a donor battery.
	Machine is not activated.	Activate machine.
	Fuel tank is empty.	Top up with fuel.
	Fuel filter is dirty.	Have the fuel filter replaced.*
	Air cleaner is dirty.	Replace air cleaner.
	Starter is defective.	Have the machine repaired.*
	Remote control, decoder, or wiring harness is defective.	Have the machine repaired.*
Engine not running smoothly.	Fuel filter is dirty.	Have the fuel filter replaced.*
	Air cleaner is dirty.	Clean or replace air cleaner.
Vibration does not start.	Electrical system is defective.	Have the machine repaired.*
Motor smokes and does not perform.	Air cleaner is dirty.	Replace air cleaner.
Remote control is controlling another machine.	Both machines are set to the same transmission channel.	Change the transmission channel on one machine.
Machine cannot be deactivated.	Incorrect PIN entered.	Enter the correct PIN.
		Deactivate machine with emergency stop switch.
	Electrical system is defective.	1. Deactivate machine with emergency stop switch. 2. Have the machine repaired.*
Diagnostic menu cannot be called.	ON/OFF switch on the machine not held for long enough or not pressed strongly enough.	Hold down ON/OFF switch on the machine for at least 3 uninterrupted seconds.

* Have these tasks carried out by the service department of your Wacker Neuson contact person.

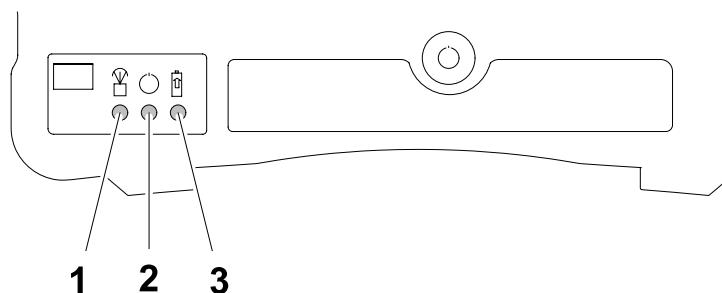
10.3 Malfunction messages of the receiver units

Malfunction	Cause	Remedy
Receiver units are lit in yellow. Machine does not react to remote control commands.	Remote control is turned off.	Turn on remote control.
	Remote control battery is discharged.	Recharge or change remote control battery.
	Remote control is defective.	Change remote control or have remote control repaired. *
	The remote control is set to the wrong transmission channel.	Set transmission channel.
	User is outside of the receiving area.	Enter the receiving area of the machine.
	No visual contact between remote control and receiver unit.	Establish visual contact with the receiver unit.
	Receiver units or remote control are dirty.	Clean remote control and receiver units.
	Decoder, receiver unit or electrical connection is defective.	Have the machine repaired.*
Receiver units flash in yellow at fast intervals. Machine does not react to remote control commands.	User is in the proximity area.	Leave the machine's proximity area.
Receiver units are lit in red.	Machine is warming up.	Wait until the machine has finished warming up.
	Diagnostic system has detected an error.	Check control lamps and malfunction messages on display screen.
Receiver units flash red.	Machine is overloaded as ground cannot be further compacted.	■ Avoid operating on ground that cannot be further compacted. ■ Reduce compacting performance by tilting the remote control lever less. ■ Switch from fast to slow operation.

* Have these tasks carried out by the service department of your Wacker Neuson contact person.



10.4 Malfunction messages in the control lamps of the remote control

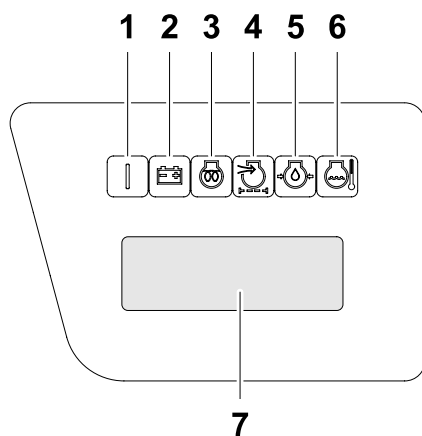


Item	Designation	Item	Designation
1	Diagnostic control lamp	3	Charging control lamp
2	Operation control lamp		

Malfunction	Cause	Remedy
Operation control lamp flashes or is lit in red.	Remote control battery is discharged.	Recharge or change remote control battery.
		Operate machine with coiled helix cable (while simultaneously charging the battery).
The Operation control lamp does not flash after the remote control has been turned on.	Remote control battery is discharged.	Recharge or change remote control battery.
	Remote control is defective.	Change remote control or have remote control repaired. *
The Operation control lamp is lit in red, and the Diagnostic control lamp is flashing green.	Control lever is defective.	Have control lever replaced. *
	Remote control is defective.	Change remote control or have remote control repaired. *
Charging control lamp flashes green.	The battery is automatically preheated for charging. It may not be possible to recharge the battery at temperatures below 0 °C.	- Wait until the Charging control lamp is lit in green and charging begins. - Charge the battery at temperatures above 0 °C.
Remote control turns itself off.	If no button on the remote control is pressed, the remote control will turn off automatically after 10 minutes.	—

* Have these tasks carried out by the service department of your Wacker Neuson contact person.

10.5 Malfunction messages on the control lamps and the machine's display screen



Item	Designation	Item	Designation
1	Operation control lamp	5	Oil pressure control lamp
2	Charging control lamp	6	Coolant temperature control lamp
3	Preheating control lamp	7	Display screen
4	Air cleaner control lamp		

Malfunction messages on the control lamps

Malfunction	Cause	Remedy
<i>Charging</i> control lamp is lit in red while the engine is running.	Error in the electrical system.	Have the machine repaired. *
<i>Preheating</i> control lamp is lit in yellow.	Machine is starting up.	Wait until the engine starts.
<i>Air cleaner</i> control lamp is lit in yellow.	Air cleaner cartridge is dirty.	Change air cleaner cartridge.
<i>Oil pressure</i> control lamp is lit in red while the engine is running.	Engine oil level is too low.	Top up with engine oil.
	Oil pressure switch or electrical connection is defective.	Have the machine repaired. *
<i>Coolant temperature</i> control lamp is lit in red.	Radiator cooling fins are dirty.	Blow out cooling fins from inside to outside with compressed air at a sufficient distance.
	Coolant level is too low.	Top up coolant.
	Cooling system has a leak.	Have the machine repaired. *

* Have these tasks carried out by the service department of your Wacker Neuson contact person.

Malfunction messages on display screen

The last error shall appear temporarily on the display screen each time the machine is activated. If you have corrected the error the error message in the diagnostic menu is quit because the error is no longer relevant for further operation.

In order to quit the last error you must call and exit the diagnostic menu. The corrected error shall not appear on the display screen any more when the machine is activated.

Error code	Display screen	Cause	Remedy
1	Shutdown Oil pressure	Engine oil level is too low.	1. Deactivating the machine 2. Top up with engine oil.
		Oil pressure switch or electrical connection is defective.	Have the machine repaired. *
2	Shutdown Excess temp.	Coolant level is too low.	Top up coolant.
		Cooling system has a leak.	Have the machine repaired. *
		Motor is overheated.	Let engine cool off.
		Radiator cooling fins are dirty.	Blow out cooling fins from inside to outside with compressed air at a sufficient distance.
		Temperature sensor is defective.	Have the machine repaired.*
		Fan wheel is broken.	Have the machine repaired.*
3	Shutdown Overvoltage	V-belt of the fan wheel is defective or not under sufficient tension.	Have the machine repaired.*
		Charge control or electrical connection is defective.	Have the machine repaired. *
4	Error Battery	Generator, charge control, battery, or electrical connection is defective.	Have the machine repaired. *
5	Shutdown Charge con./Gen.	Generator, charge control, or electrical connection is defective.	Have the machine repaired. *
6	Error Battery	Generator, charge control, battery, or electrical connection is defective.	Have the machine repaired. *
7	Check Air cleaner	Air cleaner cartridge is dirty.	Change air cleaner cartridge.
		Air cleaner sensor electrical connection is defective.	Check the electrical connection of the air cleaner sensor. *



Error code	Display screen	Cause	Remedy
8	Error Air cleaner	Air cleaner sensor is defective.	Have the machine repaired. *
		Air cleaner sensor electrical connection is defective.	Check the electrical connection of the air cleaner sensor. *
9	Shutdown Oil pres. sw.	Oil pressure switch or electrical connection is defective.	Have the machine repaired. *
10	Error Charge control	Charge control or electrical connection is defective.	Have the machine repaired. *
11	Error Charge con./Gen.	Generator, charge control, or electrical connection is defective.	Have the machine repaired. *
12	Shutdown Overload	Machine is overloaded as ground cannot be further compacted.	Deactivate the machine and then reactivate it. To prevent overload, observe the following rules: ■ Avoid operating on ground that cannot be further compacted. ■ Reduce compacting performance by tilting the remote control lever less. ■ Switch from fast to slow operation.
13	Machine Overload	Machine is overloaded as ground cannot be further compacted.	To prevent overload, observe the following rules: ■ Avoid operating on ground that cannot be further compacted. ■ Reduce compacting performance by tilting the remote control lever less. ■ Switch from fast to slow operation.
14	Shutdown Overload sensor	Overload sensor or electrical connection is defective.	Have the machine repaired. *
15	IR transfer Address comp.	No malfunction. Transmission channel is coordinated between the remote control and the machine.	—
16	IR transfer Wrong sender	Wrong remote control type.	Use correct remote control type.



Error code	Display screen	Cause	Remedy
17	IR transfer Wrong address	Wrong transmission channel set on remote control.	Coordinate the transmission channel between the remote control and the machine.
18	Machine Cooling...	Coolant level is too low.	Top up coolant.
		Motor is overheated.	Let engine cool off.
		Radiator cooling fins are dirty.	Blow out cooling fins from inside to outside with compressed air at a sufficient distance.
		Cooling system has a leak.	Have the machine repaired. *
		Temperature sensor is defective.	
19	Machine Excess temp.	Coolant level is too low.	Top up coolant.
		Motor is overheated.	Let engine cool off.
		Radiator cooling fins are dirty.	Blow out cooling fins from inside to outside with compressed air at a sufficient distance.
		Cooling system has a leak.	Have the machine repaired. *
		Temperature sensor is defective.	
20	Error Temp. sensor	Temperature sensor or electrical connection is defective.	Have the machine repaired. *
		At very low temperatures the coolant will not reach the required temperature of 55 °C in the warmup phase. The machine will cancel the warmup phase but will be ready for operation.	—
21	Error Automatic start	Fuel tank is empty.	Top up with fuel.
		■ Defect in fuel system. ■ Motor, diesel valve or electrical connection of the diesel valve is defective.	Have the machine repaired. *
22	Error Charge cont./St.	Charge control, starter, or electrical connection is defective.	Have the machine repaired. *
23	Error Diesel valve	Diesel valve is defective. Machine cannot be turned off.	Have the machine repaired. *



Error code	Display screen	Cause	Remedy
24	Error Gas adjuster	Fuel tank is empty.	Top up with fuel.
		■ Throttle solenoid or electrical connection is defective. ■ Throttle solenoid cable control is defective. ■ 80 A fuse has burnt through.	Have the machine repaired. *
25	Error Temp. sensor	Temperature sensor or electrical connection is defective.	Have the machine repaired. *
26	Shutdown Oil pressure	Engine oil level is too low.	1. Deactivate the machine. 2. Top up with engine oil.
		Oil pressure switch or electrical connection is defective.	Have the machine repaired. *
27	Error Overload	Overload sensor or electrical connection is defective.	Have the machine repaired. *
—	Error Decoder	Wiring box electrical connection is defective.	1. Deactivate machine with emergency stop switch. 2. Have the machine repaired. *

* Have these tasks carried out by the service department of your Wacker Neuson contact person.



10.6 Eliminating malfunctions

10.6.1 Jumpstart with a donor battery

If the machine's battery is discharged and the engine can no longer be started, the machine may be jumpstarted with a donor battery.



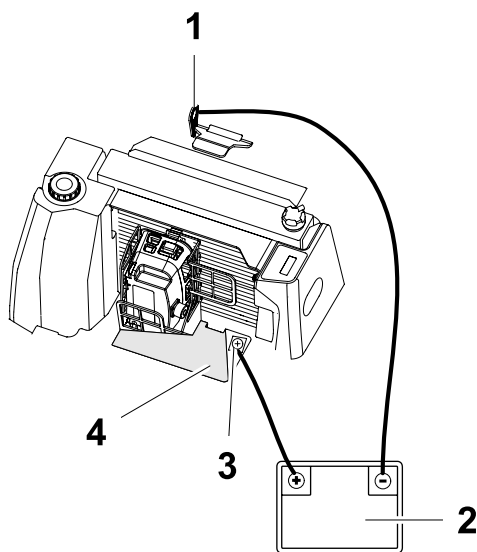
WARNING

Danger of explosion due to detonating gas.

Injury may result from spraying acid.

- ▶ Wear safety glasses and acid-proof protective gloves.
- ▶ The donor battery and the machine's battery must have the same voltage (12 V).
- ▶ Avoid short circuit due to voltage reversal (positive to positive, negative to negative).
- ▶ Follow the booster cable connection sequence.

Note: Use only insulated booster cables with a cross section of at least 16 mm².



Item	Designation	Item	Designation
1	Grounding	3	Positive terminal
2	Donor battery	4	Battery cover

Removing positive terminal cover

1. Lift up the battery cover until the battery's positive terminal is visible.
2. Remove positive terminal cover.

Connecting jumper cable

1. Clamp the clamping pliers of the red booster cable to the positive terminal of the discharged battery.
2. Clamp the second clamping pliers of the red booster cable to the positive terminal of the donor battery.
3. Clamp the clamping pliers of the black booster cable to the negative terminal of the donor battery.
4. Clamp the second clamping pliers of the black booster cable to the grounding of the machine.

Jumpstart

1. Turn on remote control.
2. Activate machine.
3. Briefly hold the start button on the remote control until the engine starts. If the motor does not start, contact your Wacker Neuson representative.
4. Let the engine run for a few minutes.

Disconnecting booster cable

1. Disconnect the second clamping pliers of the black booster cable from the grounding of the machine.
2. Disconnect the second clamping pliers of the black booster cable from the donor battery.
3. Disconnect the clamping pliers of the red booster cable from the positive terminal of the discharged battery.
4. Disconnect the second clamping pliers of the red booster cable from positive terminal of the donor battery.

Fastening positive terminal cover

1. Fasten positive terminal cover.
2. Lower battery cover.



11 Disposal

11.1 Disposal of batteries

For customers in EU countries

This device contains one or more batteries or rechargeable batteries (hereafter referred to as "batteries"). This battery is subject to the European Directive 2006/66/EC on (waste) batteries, as well as the corresponding national legislation. The battery directive outlines the procedure for handling batteries across the EU.



The battery is labelled with the symbol of a crossed out dustbin shown here. Below this symbol is a list of all the harmful substances it contains, namely "Pb" for lead, "Cd" for cadmium and "Hg" for mercury.

Batteries may not be disposed of with normal household waste. As the end user, only dispose of waste batteries via the manufacturer, the dealer or special collection points for this purpose (legal obligation to return), which is free of charge. Dealers and manufacturers are obliged to accept the return of the batteries and to use them properly or to dispose of them as hazardous waste (legal obligation to accept). You can also return any used batteries you obtained from us free of charge. If you do not return the batteries to one of our branches personally, make sure you have paid sufficient postage for its return. Please also note any information in the sales contract and the general terms and conditions from the point of sales.

The proper disposal of the battery prevents the occurrence of any negative effects on people or the environment, follows the specific procedures for handling harmful substances and enables valuable raw materials to be recycled.

For customers in non-EU countries

This device contains one or more batteries or rechargeable batteries (hereafter referred to as "batteries"). The proper disposal of the battery prevents the occurrence of any negative effects on people or the environment, follows the specific procedures for handling harmful substances and enables valuable raw materials to be recycled. Therefore, we recommend that this battery is disposed of in a separate, environmentally-friendly waste collection and not with normal household waste. In some cases, national legislation stipulates the separate disposal of batteries. Please ensure you dispose of this battery in accordance with the valid regulations in your country.

12 Accessories

There is a wide range of accessories available for the machine.

For more information on the individual accessories, visit the following website:
www.wackerneuson.com.

12.1 Battery

A replacement battery is particularly worthwhile if you intend to operate the machine for a longer period of time without interruption.

12.2 External charger

You need an external charger if you do not want to charge the battery using the machine's coiled helix cable.

The external charger has country-specific plugs to connect to different power grids.

13 Technical data

13.1 DPU 130Le

Machine

Designation	Unit	DPU 130Le
Item no.		0610143
Length x Width x Height	mm (ft)	1,270 x 1,200 x 988 (4.2 x 3.9 x 3.3)
Operating weight	kg (lb)	1,185 (2,612)
Advance and reverse travel *	m/min (ft/min)	31 (102)
Surface capacity *	m ² /h (ft ² /h)	2,232 (24,025)
Maximum permissible tilt	°	25
Maximum duration of operation at maximum tilt **	min	30
Permissible ambient temperature for operation	°C	-10 — +50
Measured sound power level	dB(A)	109
Guaranteed sound power level	dB(A)	109
Sound pressure level L_{pA} at operator's station ***	dB(A)	87

* Depending on the condition of the soil.

** The engine may be damaged if the maximum permissible duration of operation is exceeded.

*** Measured at 5 m from the machine.

Drive engine

Designation	Unit	DPU 130Le
Manufacturer		Kohler
Engine type		KDW 1404
Engine displacement	cm ³ (in ³)	1372 (84)
Rated output*	kW	21
Operating power	kW	16
Operating blade speed	rpm	2,700
Blade speed without load	rpm	2,800
Idle speed	rpm	1,200
Fuel type		Diesel according to DIN EN 590 Diesel Type 2 (low sulfur/ ultralow sulfur)
Fuel consumption	l/h (gal/h)	4 (1.1)
Tank capacity	l (gal)	18 (4.8)
Oil specification		Fuchs Titan Unic 10W40 MC (SAE 10W40)
Oil quantity	l (gal)	3.2 (0.85)

* Equivalent to the installed power output in accordance with the directive 2000/14/EC.

Radiator

Designation	Unit	DPU 130Le
Coolant specification		Fuchs Fricofin and water (mixing ratio 1:1)
Coolant volume	l (gal)	3.9 (1.03)



Exciter

Designation	Unit	DPU 130Le
Vibrations	min ⁻¹ (Hz)	3,480 (58)
Centrifugal force	kN	130
Oil specification		Fuchs Titan Unic 10W40 MC (SAE 10W40)
Oil quantity	l (gal)	1.2 (0.32) (per exciter)

Electrical

Designation	Unit	DPU 130Le
Battery type		Special Wacker Neuson battery for vibratory plates, 12 V, 50 Ah, maintenance free
Generator		Three-phase current generator with charge control, 30 A

Hydraulic

Designation	Unit	DPU 130Le
Oil specification		Fuchs Renolin MR 520
Oil quantity	l (gal)	44 (11.62)

Remote control

Designation	Unit	DPU 130
Transmission range	m (ft)	20 (66)
Duration of operation	h	16
Charging time with coiled helix cable	h	2
Charging time with external charger	h	2
Available transmission channels		16
Battery type		NiMH
Battery voltage	V	7.2
Battery capacity	mAh	2,000



14 Appendix

14.1 Display texts

If you have set the display language in the configuration menu to numerical code display, the meaning of the different numerical codes can be found in the following table:

Code	Designation	Code	Designation
0	Self-test	30	Warm up ...
1	IR address	31	Start error
2	Diagnose	32	Enter PIN
3	Setup	33	Error
4	Error code	34	Wait..
5	Voltage	35	Error decoder
6	Temperature	36	OK
7	Engine speed	37	Start
8	IR transfer	38	Ready to start
9	SW version	39	Last error
10	LED signal	40	Exit
11	Turn-off time	41	Address comp.
12	Monitoring	42	Overload sensor
13	PIN	43	Machine
14	Setup PIN	44	Overload
15	Error memory	45	Wrong address
16	Operation hours	46	Wrong sender
17	Start-up	47	Warning
18	Test mode	48	Battery
19	Continue w. ON	49	Check
20	Select language	50	Cooling...
21	Oil pressure	51	Temp. sensor
22	Automatic start	52	Charge cont./St.
23	Excess temp.	53	Diesel valve
24	Shutdown	54	Gas adjuster
25	Charge control	55	Overvoltage
26	Charge con./Gen.	56	Machine number
27	Air cleaner	62	°C
28	Oil pres. sw.	63	rpm
29	Preheat...		

15 Emission control systems information and warranty

The Emission Control Warranty and associated information is valid only for the U.S.A., its territories, and Canada.

Emission control systems warranty statement

See the *engine owner's manual* for the applicable exhaust and evaporative emission warranty statement.





**WACKER
NEUSON**

EC Declaration of Conformity

Manufacturer

Wacker Neuson Produktion GmbH & Co. KG, Preußenstraße 41, 80809 München

Product

Product	DPU 130Le
Product category	Vibrating plate
Product function	Compacting soils
Item number	0610143
Net installed power	21 kW
Measured sound power level	109 dB(A)
Guaranteed sound power level	109 dB(A)

Conformity assessment procedure

According to 2000/14/EC, Appendix VIII, 2005/88/EC.

Notified body

VDE Prüf- und Zertifizierungsinstitut GmbH, Merianstraße 28, 63069 Offenbach/Main

Guidelines and standards

We hereby declare that this product meets and complies with the relevant regulations and requirements of the following guidelines and standards:

2006/42/EG, 2000/14/EG, 2005/88/EG, 2004/108/EG, EN 13309:2000

Authorized person for technical documents

Axel Häret,

Wacker Neuson Produktion GmbH & Co. KG, Preußenstraße 41, 80809 München

München, 01.08.2011

Dr. Michael Fischer
Director of Technology and Innovation

Translation of the original Declaration of Conformity

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