

Operator's Manual

Pump

PS, 3-Phase



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notice**

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**Original
instructions**

This Operator's Manual presents the original instructions. The original language of this Operator's Manual is American English.

Foreword

SAVE THESE INSTRUCTIONS—This manual contains important instructions for the machine models below. These instructions have been written expressly by Wacker Neuson America Corporation and must be followed during installation, operation, and maintenance of the machines.

Model	Part Number
PS2 1503	5000008802, 5000008803
PS3 1503	5000008808, 5000008809
PS2 2203	5000008814, 5000008815
PS3 2203	5000008820, 5000008821
PS2 3703	5000008826, 5000008827
PS3 3703	5000008832, 5000008833
PS4 3703	5000008838, 5000008839
PS3 5503	5000008844, 5000008845
PS4 5503	5000008850, 5000008851
PS4 7503HH	5000008856, 5000008857
PS4 7503HF	5000008862, 5000008863
PS4 11103HH	5000008868, 5000008876
PS4 11103HF	5000008872, 5000008878

Machine Documentation

- From this point forward in this documentation, Wacker Neuson America Corporation will be referred to as Wacker Neuson.
- Keep a copy of the Operator's Manual with the machine at all times.
- For spare parts information, please see your Wacker Neuson Dealer, or visit the Wacker Neuson website at <http://www.wackerneuson.com/>.
- When ordering parts or requesting service information, be prepared to provide the machine model number, item number, revision number, and serial number.

Expectations for information in this manual

- This manual provides information and procedures to safely operate and maintain the above Wacker Neuson model(s). For your own safety and to reduce the risk of injury, carefully read, understand, and observe all instructions described in this manual.
- Wacker Neuson expressly reserves the right to make technical modifications, even without notice, which improve the performance or safety standards of its machines.
- The information contained in this manual is based on machines manufactured up until the time of publication. Wacker Neuson reserves the right to change any portion of this information without notice.
- The illustrations, parts, and procedures in this manual refer to Wacker Neuson factory-installed components. Your machine may vary depending on the requirements of your specific region.

Manufacturer's approval

This manual contains references to *approved* parts, attachments, and modifications. The following definitions apply:

- **Approved parts or attachments** are those either manufactured or provided by Wacker Neuson.
- **Approved modifications** are those performed by an authorized Wacker Neuson service center according to written instructions published by Wacker Neuson.
- **Unapproved parts, attachments, and modifications** are those that do not meet the approved criteria.

Unapproved parts, attachments, or modifications may have the following consequences:

- Serious injury hazards to the operator and persons in the work area
- Permanent damage to the machine which will not be covered under warranty

Contact your Wacker Neuson dealer immediately if you have questions about approved or unapproved parts, attachments, or modifications.



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1 Safety Information

1.1 Signal Words Used in this Manual

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



This is the safety alert symbol. It is used to alert you to potential personal hazards.

- Obey all safety messages that follow this symbol.



DANGER

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

- To avoid death or serious injury from this type of hazard, obey all safety messages that follow this signal word.



WARNING

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

- To avoid possible death or serious injury from this type of hazard, obey all safety messages that follow this signal word.



CAUTION

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

- To avoid possible minor or moderate injury from this type of hazard, obey all safety messages that follow this signal word.

NOTICE: Used without the safety alert symbol, NOTICE indicates a situation which, if not avoided, could result in property damage.

Note: A Note contains additional information important to a procedure.

1.2 Machine Description and Intended Use

This machine is a submersible water pump. The Wacker Neuson Submersible Pump consists of an electric motor, an impeller, a strainer, and a metal casing with ports for water suction and discharge. Power is supplied to the pump through a corded plug or a hard-wired connection, depending on the installation. The operator connects hoses to the pump and routes them so that water is pumped from the work area and discharged into an appropriate location.

This machine is intended to be used for general de-watering applications. This machine is intended for the pumping of clear water, or water containing solids up to the size stated within the product's specifications, and up to the flow, head, and suction lift limits also stated within the product's specifications.

This machine has been designed and built strictly for the intended use described above. Using the machine for any other purpose could permanently damage the machine or seriously injure the operator or other persons in the area. Machine damage caused by misuse is not covered under warranty.

The following are some examples of misuse:

- Pumping flammable, explosive, or corrosive fluids
 - Pumping hot or volatile fluids that result in pump cavitation
 - Operating the pump outside of product specifications due to incorrect diameter hoses, incorrect length hoses, other inlet or outlet restrictions, or excessive suction lift or head
 - Using the machine as a ladder, support, or work surface
 - Using the machine to carry or transport passengers or equipment
 - Operating the machine outside of factory specifications
 - Operating the machine in a manner inconsistent with all warnings found on the machine and in the Operator's Manual.
-

This machine has been designed and built in accordance with the latest global safety standards. It has been carefully engineered to eliminate hazards as far as practicable and to increase operator safety through protective guards and labeling. However, some risks may remain even after protective measures have been taken. They are called residual risks. On this machine, they may include exposure to:

- Electric shock from improper electrical connections or high voltage
- Personal injury from improper lifting techniques
- Projectile hazard from discharge

To protect yourself and others, make sure you thoroughly read and understand the safety information presented in this manual before operating the machine.

1.3 Operating and Electrical Safety

This pump has not been investigated for use in swimming pool areas.

An acceptable motor-control switch shall be provided at the time of installation according to local codes and regulations.



WARNING

Electric shock hazard.

- ▶ To reduce risk of electric shock, connect only to a properly grounded, grounding-type receptacle.
 - ▶ To reduce risk of electric shock, follow instructions in this manual for proper installation.
-



CAUTION

Electric shock hazard. This pump may automatically restart.

- ▶ Prior to working on the pump or control panel, all supply circuits must be disconnected.
 - ▶ Do not remove cord and strain relief.
-

Operator qualifications

Only trained personnel are permitted to start, operate, and shut down the machine. They also must meet the following qualifications:

- Have received instruction on how to properly use the machine
- Are familiar with required safety devices

The machine must not be accessed or operated by:

- Children
- People impaired by alcohol or drugs

Personal Protective Equipment (PPE)

Wear the following Personal Protective Equipment (PPE) while operating this machine:

- Close-fitting work clothes that do not hinder movement
- Safety glasses with side shields
- Hearing protection
- Safety-toed footwear

1.4 Service Safety**Service training**

Before servicing or maintaining the machine:

- Read and understand the instructions contained in all manuals delivered with the machine.
- Familiarize yourself with the location and proper use of all controls and safety devices.
- Only trained personnel shall troubleshoot or repair problems occurring with the machine.
- Contact Wacker Neuson for additional training if necessary.

When servicing or maintaining this machine:

- Do not allow improperly trained people to service or maintain the machine. Personnel servicing or maintaining the machine must be familiar with the associated potential risks and hazards.

Personal Protective Equipment (PPE)

Wear the following Personal Protective Equipment (PPE) while servicing or maintaining this machine:

- Close-fitting work clothes that do not hinder movement
- Safety glasses with side shields
- Hearing protection
- Safety-toed footwear

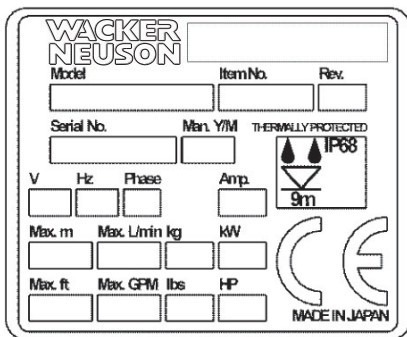
In addition, before servicing or maintaining the machine:

- Tie back long hair.
- Remove all jewelry (including rings).

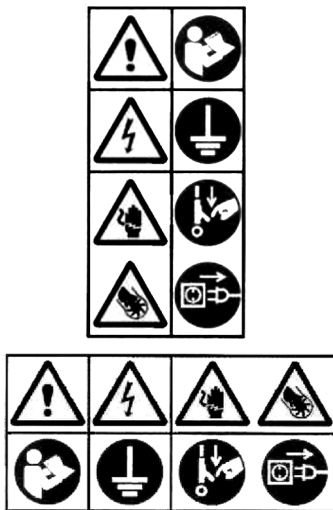
Replacing parts and labels

- Replace worn or damaged components.
- Replace all missing and hard-to-read labels.
- When replacing electrical components, use components that are identical in rating and performance to the original components.
- When replacement parts are required for this machine, use only Wacker Neuson replacement parts or those parts equivalent to the original in all types of specifications, such as physical dimensions, type, strength, and material.

1.5 Labels



A nameplate listing the model number, item number, revision number, and serial number is attached to each unit. Please record the information found on this nameplate so it will be available should the nameplate become lost or damaged. When ordering parts or requesting service information, you will always be asked to specify the model number, item number, revision number, and serial number of the unit.

**CAUTION**

Do not attempt to operate this product before reading the Operator's Manual and understanding its contents. Mishandling of this product may result in explosion, fire, or electrical shock.

- Do not pull on the power cord or use the power cord to lift the pump.
- Always use a dedicated ground leakage circuit breaker.
- Be sure to install the ground wire securely.
- Be sure to disconnect the power supply before handling or inspecting the pump.

Never insert your hand into the pump inlet holes while the pump is connected to the power supply.

2 Lifting and Transporting



WARNING

Personal injury hazard. The cable may be damaged, causing electrical leakage, shock, or fire. If the pump is not lowered into place correctly, it may fall and be damaged or cause injury.

- ▶ Do not under any circumstances install or move the pump by suspending it from the cable assembly.
- ▶ When installing the pump, pay close attention to its center of gravity and weight.



CAUTION

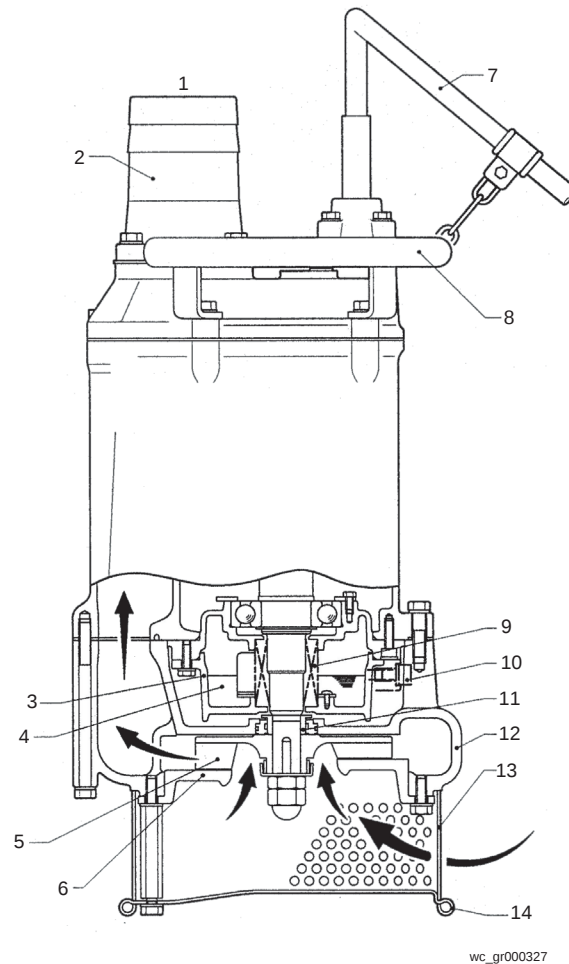
Personal injury hazard. When transporting the pump by hand, be sure to employ manpower commensurate with the weight of the pump.

- ▶ To avoid back injury when lifting the pump, bend the knees to pick it up rather than bending your back only.

Avoid dropping the pump or other strong impact. Lift the pump by holding it firmly with the hands or by attaching a rope or chain to the handle.

3 Installation

3.1 Components



Ref.	Description	Ref.	Description
1	Discharge outlet	8	Lifting handle
2	Coupling	9	Mechanical seal
3	Oil housing	10	Oil plug
4	Lubricant	11	Sleeve
5	Impeller	12	Volute
6	Suction cover	13	Strainer
7	Cable assembly	14	Plate

Note: This diagram shows the parts layout of a typical PS (Three-Phase) model. The external appearance and the internal construction may vary slightly, depending on your particular model.

3.2 Preparing the Machine for First Use

When the pump is delivered, first perform the following inspection checks:

- While unpacking, inspect the product for damage during shipment, and make sure all bolts and nuts are tightened properly.
- Check the model number to make sure it is the product that was ordered. Be certain it is the correct voltage and frequency.

Note: *If there is any problem with the product as shipped, contact your nearest dealer or Wacker Neuson representative at once.*



CAUTION

Personal injury hazard. Failure to observe this caution can lead to electrical shock, current leakage, fire, water leakage, or other problems.

- Do not operate this product under any conditions other than those for which it is specified.
-

3.3 Application Area

**WARNING**

If the pump is used for outdoor fountains, garden ponds and similar places, or to drain a swimming pool, the pump must be supplied by an isolating transformer or connected to a Residual Current Device (RCD) with a residual operating current not exceeding 30 mA.

The pump must not be used when people are in the water.

Leakage of pump lubricants may cause pollution of water.

Proper plug must be provided according to local codes and standards. Refer to wiring diagram.

The supply voltage should be within $\pm 5\%$ of the rated voltage.

DO NOT use in water temperatures outside the range of 0–40°C (32–104°F), which can lead to failure, electrical leakage or shock.

The pump should be used only for pumping plain water. The pump should not be used to pump fluids such as oil, salt water, or organic solvents.

The pump must never be used to pump explosive liquids and should never be operated in an area where explosive elements might be present.

The pump must not be used in a partially disassembled state.

Note: *Consult your local dealer or Wacker Neuson representative before using with any liquids other than those indicated in this document.*

**Critical Pressure**

Do not use the pump in an area where the water pressure exceeds the values given below, as it may damage the pump, or cause a short or electrical shock.

Model		Critical Pressure
PS2 1503 PS2 2203 PS2 3703 PS4 3703 PS4 5503	PS3 1503 PS3 2203 PS3 3703 PS3 5503	0.5 MPa (71 PSI) – Discharge pressure during use = Critical pressure
PS4 7503HH PS4 11003HH	PS4 7503HF PS4 11003HF	Critical pressure = 0.5 MPa (71 PSI)

3.4 Preparing for installation

Before installing the pump at a work site, you will need to have the following tools and instruments ready:

- Insulation resistance tester (megohmmeter)
- AC voltmeter
- AC ammeter (clamp-on type)
- Bolt and nut tighteners
- Power supply connection tools (screwdriver or box wrench)

Note: Please also read the instructions that come with each of the test instruments.

3.5 Checks to Make Before Installation

With the megohmmeter, measure the insulation resistance between each of the power wires and grounding wire to verify the insulation resistance of the motor.

Reference insulation resistance: 20MΩ or greater

Note: The reference insulation resistance (20MΩ or greater) is the value when the pump is new or has been repaired. For the reference value after installation, see *Maintenance and Inspection*.



Precautions During Installation

When installing the pump, pay close attention to its center of gravity and weight. If it is not suspended properly, it may fall and be damaged or cause injury.

When transporting the pump manually, be sure to employ manpower commensurate with the weight of the pump. To avoid back injury when lifting the pump, bend the knees to pick it up rather than bending your back only.



Do not under any circumstances install or move the pump by suspending it from the cable assembly. The cable may be damaged, causing electrical leakage, shock, or fire.

1. This pump series is offered with a variety of discharge fittings. Please refer to the BOM Product Matrix in the Parts Section to identify the type of discharge fitting used on your pump. Follow procedures noted below to assure a proper discharge connection.

Threaded Discharge Fitting (BSP) –

Tighten hose coupling or discharge pipe securely and with proper gaskets.

Quick Disconnect Coupling (QD) –

Assure coupling is tightened securely to pump discharge fitting and companion coupling is securely fastened with proper gaskets.

Barbed Discharge Fitting (Barb) –

Place hose clamp over hose and push hose to the base of the discharge fitting. Tighten the hose clamp to secure the hose in place.

2. Avoid dropping the pump or other strong impact. Lift the pump by holding it firmly with the hands or by attaching a wire rope **(a)** or chain to the handle.

Note: For proper procedures for handling the cable assembly, refer to Section Electrical Wiring in this manual.



Do not operate the pump dry. Doing so will prevent the pump from attaining its full potential and may also damage the pump and lead to a short and electrical shock.

In order to properly discharge water, provide adequate piping to the area where the pump is mounted. Improper piping may lead to water leakage or other malfunctions. Install the pump only in an area that can maintain a proper water level.

3. Install the pump only in an area that can maintain a proper water level.

Note: For details on the water level necessary for pump operation, refer to “Water Level During Operation” in the Operation section.

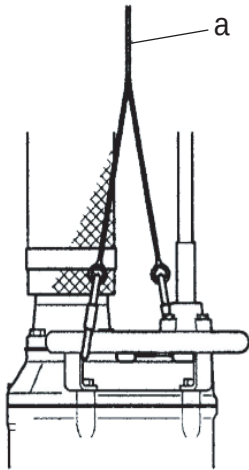
4. When using a hose to provide piping to the pump, observe the following:
Use the shortest possible length of discharge hose and minimize the number of bends. Verify that the end of the hose (discharge side) is lifted above the water surface **(a)**. If the end of the hose is submerged in water, it may cause the water to flow back **(b)** when the pump has been stopped. If the end of the hose is located at a level that is lower than that of the source water surface, water may continue to flow out even after the pump has been stopped.

Note: Appropriate piping materials must be provided by the user. Piping materials are not included with the product..

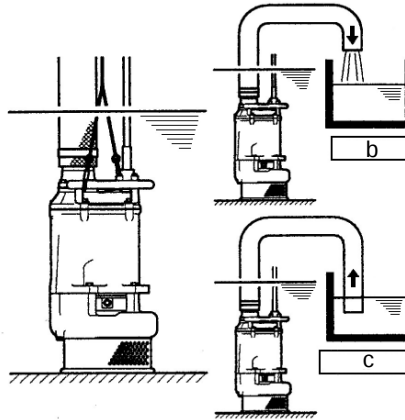


If large quantities of sediment are drawn into the pump, damage resulting from wear to the pump can lead to current leakage and electrical shock.

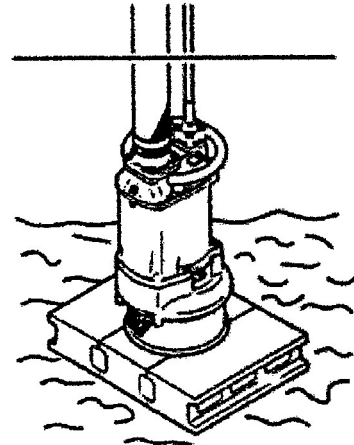
5. Use the pump in the upright position. To prevent the pump from becoming submerged in mud, mount it on a block or other firm base if necessary.
6. If used in a permanent installation, where the pump is not readily accessible after installation, please contact Wacker Neuson for a duplicate nameplate to be installed at the wellhead or on the control box so that it will be readily visible.



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3.6 Electrical Wiring



WARNING

Personal injury hazard. Incorrect wiring can lead to current leakage, electrical shock or fire.

- Electrical wiring should be connected by a qualified person in accordance with all applicable regulations. Failure to observe this precaution not only risks breaking the law but is extremely dangerous.

Always make sure the pump is equipped with the specified overload protectors and fuses or breakers, so as to prevent electrical shock from a current leak or pump malfunction.

Operate within the capacity of the power supply and wiring.



WARNING

Electrical shock hazard. Failure to ground the pump properly can lead to electrical shock from a current leak or pump malfunction.

- Do not attach the grounding wire to a gas pipe, water pipe, lightning arrester, or telephone grounding wire.

Cable Assembly

If it is necessary to extend the cable assembly, use a core size equal to or larger than the original. This is necessary not only to avoid a performance drop, but to prevent cable overheating which can result in fire, electrical leakage or electrical shock.

If a cable with cut insulation or other damage is submerged in the water, there is a danger of damage to the pump, electrical leakage, electrical shock, or fire.

Be careful not to let the cable assembly be cut or become twisted. This may result in damage to the pump, electrical leakage, electrical shock, or fire.

If it is necessary to submerge the connection wires of the cable assembly in water, first seal the wires completely in a molded protective sleeve, to prevent electrical leakage, electrical shock, or fire.

Do not allow the cable assembly wires or power supply plug to become wet.

Make sure the cable does not become excessively bent or twisted, and does not rub against a structure in a way that might damage it.

If used in a deep-well installation, the cable assembly should be secured every 6 m (20 ft.).

Connecting the power supply

Before connecting leads to the terminal strip, make certain the power supply is turned off (circuit breaker, etc.), to avoid electrical shock, shorting, or unexpected starting of the pump, leading to injury.

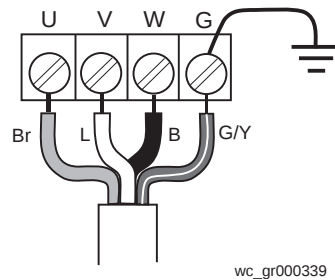
This pump series is offered with a variety of cable assembly connections. Please refer to the BOM Product Matrix in the Parts Section 2 to identify the type of cable assembly connection used on your pump. Follow the procedures noted below to assure proper cable assembly connection.

Without Plug –

Tighten the ends of the cable assembly securely against the terminal board. If installation of grounded plug is required, use only properly rated and approved CEE plug and secure ends of the cable assembly securely to power and ground terminals in accordance with plug manufacturer's instructions.

Grounded Plug –

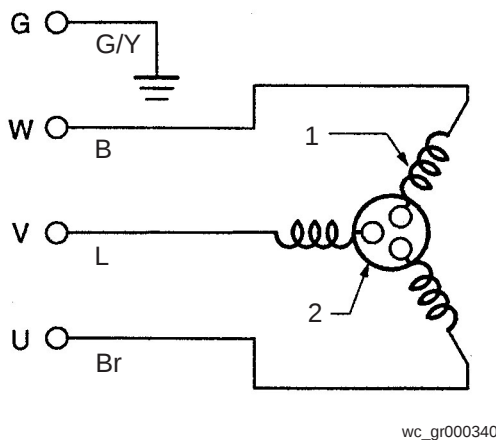
Connect only to receptacle of proper voltage and current rating matching that of the plug provided with the cable assembly.



Direct-on-Line Starting

Ref.	Description	Ref.	Description
1	Coil	2	Circle thermal protector

Wiring Diagram



Wire Colors							
B	Black	R	Red	Y	Yellow	Or	Orange
G	Green	T	Tan	Br	Brown	Pr	Purple
L	Blue	V	Violet	Cl	Clear	Sh	Shield
P	Pink	W	White	Gr	Gray	LL	Light blue

NOTICE: If connected to a circuit protected by a fuse, use a time-delay fuse with this pump.

4 Operation

4.1 Before Operation

**CAUTION**

Improper voltage and frequency of the power supply will prevent the pump from attaining its full potential, and may also lead to current leakage, electrical shock, or fire.

1. Once again, check the nameplate of the pump to verify that its voltage and frequency are correct.
2. Check the wiring, power supply voltage, the capacity of the ground leakage circuit breaker, and the insulation resistance of the motor.
Insulation resistance reference value = 20MW min.

Note: *The insulation reference value of 20MW min. is based on a new or repaired pump. For reference values for a pump that has already been installed, refer to Maintenance and Inspection in this manual.*

3. Adjust the setting of the overload protector (i.e. circuit breaker) to the pump's rated current.

Note: *Verify the rated current on the pump's nameplate.*

4. When using a generator, as much as possible avoid operating the pump in conjunction with other types of equipment.

4.2 Trial Operation

**WARNING**

NEVER start the pump while it is suspended, as the pump may jerk and cause a serious accident involving injury.

NEVER start the pump where people are present, as they may suffer electrical shock from current leakage.

**CAUTION**

Be sure to check the pump's direction of rotation when the pump is exposed to atmosphere **(a)**. Utilize a hoist to stabilize the pump on a level surface while performing this check. Operating the pump in reverse while it is submerged in water will damage the pump, which may lead to current leakage, electrical shock, or fire.

1. The impeller will rotate counterclockwise **(b)**, as viewed from the bottom of the pump. Operate the pump for a short time (1 to 2 seconds) to check the rotational direction of the impeller.

**WARNING**

Before changing the connections for reverse rotation, make sure that the power supply (i.e. circuit breaker) is properly disconnected and that the impeller has stopped completely. Failure to observe this may lead to serious accidents, including electrical shock, short, or injury.

- To reverse the rotation, the following countermeasure must be taken.

COUNTERMEASURE: Interchange two of the three wires designated U, V and W respectively **(c)**, or follow control system manufacturer's instructions to utilize rotary field control and phase inverter function of the control system supplied with the pump.

2. Operate the pump for a short time (3 to 10 minutes) and perform the following checks.

4.3 Operating current

Using an AC ammeter (clamp), measure the current at the phases U, V, and W that are connected to the terminal board.

COUNTERMEASURE: Because an overload condition may be present at the motor if the operating current exceeds the rated current, see chapter *Installation* in this manual for procedures on reverting the motor to the correct state.

4.4 Operating voltage

Use an AC voltmeter (tester) to measure the voltage at the terminal board.

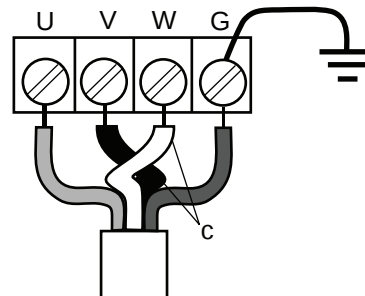
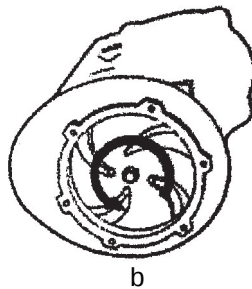
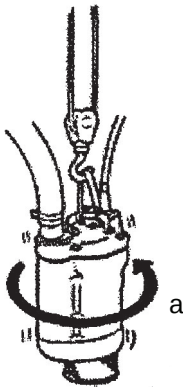
Power supply voltage tolerance = within $\pm 5\%$ of the rated voltage

COUNTERMEASURE: If the power supply voltage deviates from the tolerance value, the deviation may be caused by the capacity of the power supply or the extension cable that is used. Refer to Section *Electrical Wiring* in this manual to provide correct voltage.

4.5 Vibration



CAUTION the pump generates a considerable amount of vibration, noise, or smell, disconnect the power supply immediately and contact the dealer where you purchased the equipment, or the Wacker Neuson sales office in your area.



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4.6 Operation



CAUTION The pump may be extremely hot during operation. To prevent burns, do not touch the pump with bare hands.

Do not insert your finger or a stick into the pump's inlet opening. Doing so may cause injury, electrical shock, short, or fire.

When the pump is not used for a long time, make sure that the power supply (such as a breaker) is properly disconnected. If the wiring insulation deteriorates with the power supply connected, it may cause current leakage, electrical shock, or fire.

Pay attention to the water level during the pump operation. The pump will become damaged if it is allowed to operate dry.

Note: Refer to “Water Level During Operation” at the end of this section.

The pump is equipped with an internal motor protective device (circle thermal protector).

4.7 Motor Protector



WARNING

During inspection and repair, disconnect the power supply to avoid starting the pump unintentionally. Failure to disconnect the power supply may lead to serious accidents including electrical shock, a short, and injury.

During a power outage, disconnect the power supply to the pump. Unintentional operation of the pump after power resumption would be extremely dangerous to people around the pump.



CAUTION

Unless the cause of a problem is removed, the pump will repeat the stop-and-go cycle, eventually resulting in damage to the pump, and causing current leakage and electrical shock. Therefore, after verifying that the power supply is disconnected, find and correct the cause of the problem through inspection and repair.

DO NOT operate the pump at unusually low head, or when the strainer is clogged with debris. Doing so will prevent the pump from attaining its full potential, and may also generate abnormal noise and vibration and cause damage to the pump, which may lead to current leakage, electrical shock, and fire.

To protect the motor, if a current overload occurs in the motor or if the motor overheats under the conditions given below, the pump will stop automatically, regardless of the water level during operation.

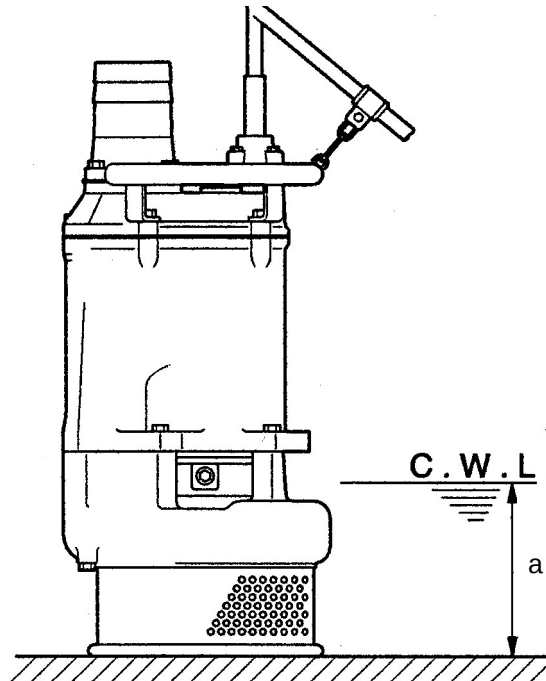
- Extreme fluctuation of power supply voltage
- Pump operated under overload condition
- Pump operated at open phase or binding condition

Water Level During Operation

Do not operate the pump below Continuous Running Water Level (C.W.L.) (a), as doing so will damage the pump, causing current leakage and electrical shock.

The table below shows the water level during operation by output. Make sure that the water level will not be under these levels.

Model		Continuous Running Water Level
PS2 1503 PS2 2203	PS3 1503 PS3 2203	120 mm (4.75 in.)
PS2 3703 PS4 3703 PS4 5503	PS3 3703 PS3 5503	150 mm (6 in.)
PS4 7503HH PS4 11003HH	PS4 7503HF PS4 11003HF	190 mm (7.5 in.)



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4.8 Emergency Shutdown Procedure

If a breakdown/accident occurs while the machine is operating, follow the procedure below.

1. Turn off the pump.
2. Disconnect the power supply.
3. Contact the rental yard or machine owner.

5 Maintenance

5.1 Periodic Maintenance Schedule

The table below lists basic machine maintenance. Tasks designated with check marks may be performed by the operator. Tasks designated with square bullet points require special training and equipment.

Pump	Monthly	Every 3000 hrs.	Every 6000 hrs.	Every 2–5 years
Measure insulation resistance. Reference insulation resistance = 1MW or greater. (1)	✓			
Measure operating current. Compare with rated current.	✓			
Measure supply voltage. Compare with allowable range (within $\pm 5\%$ of rated voltage).	✓			
Pump inspection. A noticeable drop in performance may indicate wear in the impeller, etc., or else clogging of the strainer, etc. Remove the clogged debris and replace any worn parts.	■			
Lubricant inspection.		■		
Change lubricant.			■	
Designated lubricant: SAE 10W/20W. (2)				
Change mechanical seal. (3)			■	
Overhaul. This should be carried out even if there are no problems with the pump. The frequency depends on how continuously the pump is in use. (4)				■

(1) If the insulation resistance has become noticeably lower than the previous inspection, an inspection of the motor will be necessary.

(2) See Lubricant Inspection and Change in this section.

(3) Specialized knowledge is required for inspecting and replacing the mechanical seal. Consult with your nearest dealer or Wacker Neuson representative.

(4) Consult with your nearest dealer or Wacker Neuson representative regarding overhauls.

5.2 Maintenance and Inspection

Regular maintenance and inspections are a necessity for continued efficient functioning of the pump. If any abnormal conditions are noticed, refer to the *Troubleshooting* section and take corrective measures immediately. It is recommended that a spare pump be kept ready in case of any problems.



WARNING

Personal injury hazard from electrical shock or unexpected starting of the pump motor.

- Before inspecting the pump, make certain the power supply (circuit breaker, etc.) is turned off. Then unplug the cable assembly from the receptacle or detach it from the terminals.
-

Washing the pump

Remove accumulated matter from the surface of the pump and wash it with clean water. Take special care to remove any debris from the impeller.

Inspecting the pump exterior

Look for any peeling or chipped paint, and make sure the nuts and bolts are fastened tightly. Any cracks in the surface should be repaired by cleaning that area, drying it and then applying a touch-up coating.

Note: *Touch-up paint is not supplied. Note that some kinds of damage or looseness may require that the unit be disassembled for repairs. Please consult your nearest dealer or Wacker Neuson representative.*

5.3 Storage

When the pump is out of use for an extended period, wash it and dry it thoroughly, then store it indoors.

Note: *Always run a test operation before putting the pump back into service.*

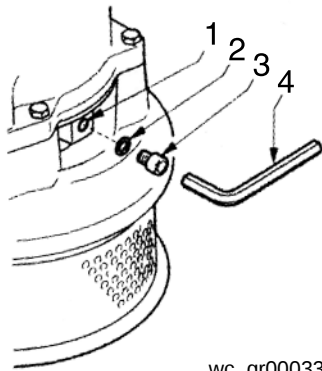
If the pump is left in the water, it should be run a minimum of once a week.

5.4 Lubricant Inspection and Changing Procedures

Inspecting Lubricant

- Inspection interval: Every 3,000 hours or 6 months, whichever comes first.
- Changing interval: Every 6,000 hours or 12 months, whichever comes first.
- Designated lubricant: Turbine oil VG32 (SAE 10W/20W).
- Lubricant capacity: Specified capacity (Refer to the table, "Specified Lubricant Capacity").

Remove the oil plug and take out a small amount of oil. The oil can be extracted easily by tilting the pump so that the oil plug faces downward. If the oil appears discolored or intermixed with water, a likely cause is a defective shaft-sealing device (i.e. mechanical seal), which requires that the pump be disassembled and repaired.



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Ref.	Description	Ref.	Description
1	Oil Inlet	3	Oil plug
2	Gasket	4	Allen wrench

Changing Lubricant

Remove the oil plug and drain the oil completely. Pour a specified volume of oil into the oil filler inlet.

Note: The drained oil must be disposed of by waste disposal contractors in compliance with the laws of the locale where the pump is being used.

Note: The gasket and the O-ring for the oil plug must be replaced with a new part at each oil inspection and change.

Model		Specified Lubricant Capacity
PS2 1503 PS2 2203	PS3 1503 PS3 2203	740 ml (25.0 fl. oz.)
PS2 3703 PS4 3703	PS3 3703	960 ml (32.5 fl. oz.)
PS4 5503	PS3 5503	1100 ml (37.2 fl. oz.)
PS4 7503HH PS4 11003HH	PS4 7503HF PS4 11003HF	760 ml (25.7 fl. oz.)

5.5 Replacement Parts

The table lists the parts that need to be replaced periodically. Replace these using the recommended frequency as a guideline.

Part	Replacement Frequency
Mechanical seal	Lubrication oil discolored
Lubricant (SAE 10W/20W)	Every 6,000 hours or 12 months, whichever comes first.
Gasket and O-ring	Each time pump is disassembled or inspected.
Oil seal (1.5 to 5.5 kW) [2 to 2.7 HP]	Each time pump is disassembled or inspected or if the sealing lip is worn
Ring-sealing (7.5/11 kW) [10/15 HP]	When it becomes worn.
Sleeve (except 3.7/5.5 kW) [5 / 7.5 HP]	When it becomes worn.

5.6 Disassembly and Reassembly

Prior to Disassembling and Reassembling



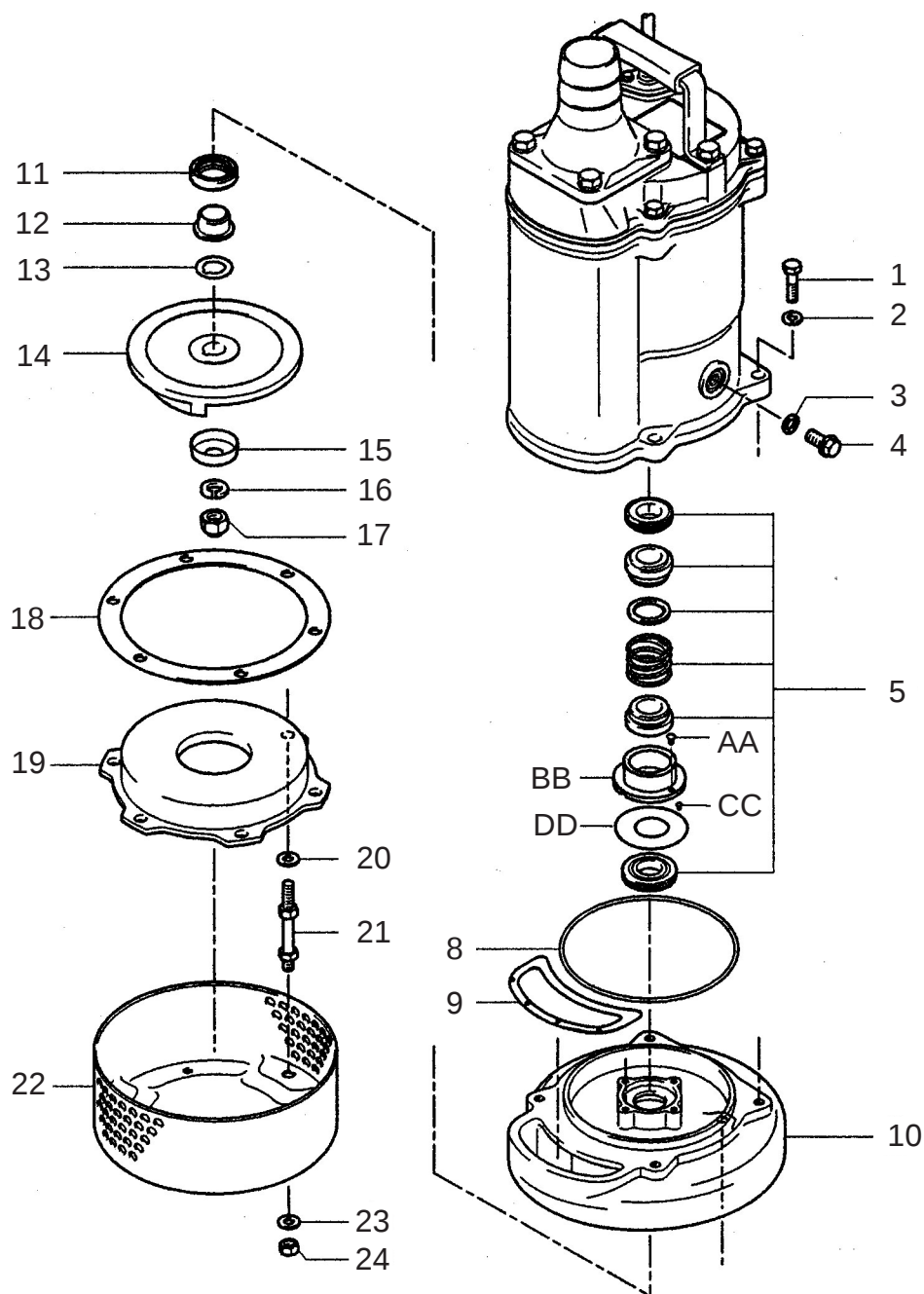
Before disassembling and reassembling the pump, be sure that the power supply (i.e. circuit breaker) is disconnected, and remove the cable assembly from the terminal board. To prevent serious accidents, DO NOT perform a conducting test during disassembly and reassembly.



Be sure to perform a trial operation when starting the pump after a reassembly. If the pump was assembled improperly, it may lead to abnormal operation, electrical shock, or water damage.

This section explains the disassembly and reassembly processes that are involved up to the casing (or oil casing, in the case of 7.5 kW and 11 kW models. Refer to the structural drawing for the respective model before disassembling. Operations involving the disassembly and reassembly of the sealing portion (i.e. mechanical seal) and of the motor require a specialized facility including vacuum and electrical equipment. For these operations, contact the dealer from whom you purchased the equipment, or the Wacker Neuson sales office in your area.

5.7 Graphic (1.5 kW, 2.2 kW, 3.7 kW, 5.5 kW)



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5.8 Graphic Components

Ref.	Description	Ref.	Description
1	Bolt	12	Sleeve
2	Lock washer	13	Shim
3	Gasket	14	Impeller
4	Oil plug	15	Thread cover
5	Mechanical seal	16	Lock washer
AA	Screw	17	Acorn nut
BB	Oil lifter	18	Gasket
CC	Screw	19	Suction cover
DD	Retaining plate	20	Lock washer
8	O-Ring	21	Stud bolt
9	Gasket	22	Strainer
10	Volute	23	Washer
11	Oil seal	24	Nut

5.9 Disassembly Procedure for 1.5 kW, 2.2 kW, 3.7 kW and 5.5 kW Models

Note: Before disassembling, be sure to drain the lubricant from the pump.

The breakdown of pump shown is based on the construction of 1.5 kW model PS2 (3) 1503. However, 2.2 kW, 3.7 kW and 5.5 kW PS three-phase models have the same construction as PS2 1503 and PS3 1503, except that the sleeve (12) will not be applied to the 3.7 kW and 5.5 kW models.

1. Removing the strainer (22):
Remove the nut (24) and the washer (23) from the bottom and remove the strainer (22) from the pump.
2. Removing the suction cover:
Remove the bolt and the nut (except 1.5 kW/2.2 kW), washer (20), and the stud bolt (21), and remove the suction cover (19), from the pump.
3. Removing the impeller (14):
An impeller puller is available from manufacturer.
Using a box wrench, remove the acorn nut (17), lockwasher (16), and thread cover (15); then remove the impeller (14), sleeve (12) (except 3.7 kW/5.5 kW) from the main shaft.



A worn impeller may have sharp edges that can cause injury, and should be handled with care.

4. If necessary, remove the volute (10) and remove the mechanical seal (5).
After removing the bolt (1) and the lockwasher (2), remove the volute (10) from the pump. At this time, be careful not to damage the sliding surface of the mechanical seal (5). Remove the mechanical seal (5) from the main shaft.

Note: Also refer to the "Mechanical Seal Handling Procedure" that comes with the mechanical seal sold separately as a spare part.

Reassembly Procedure

1. The reassembly procedure is the reverse sequence of disassembly.
Note: After completing reassembly, do not forget to pour the specified amount of lubricant into the pump.

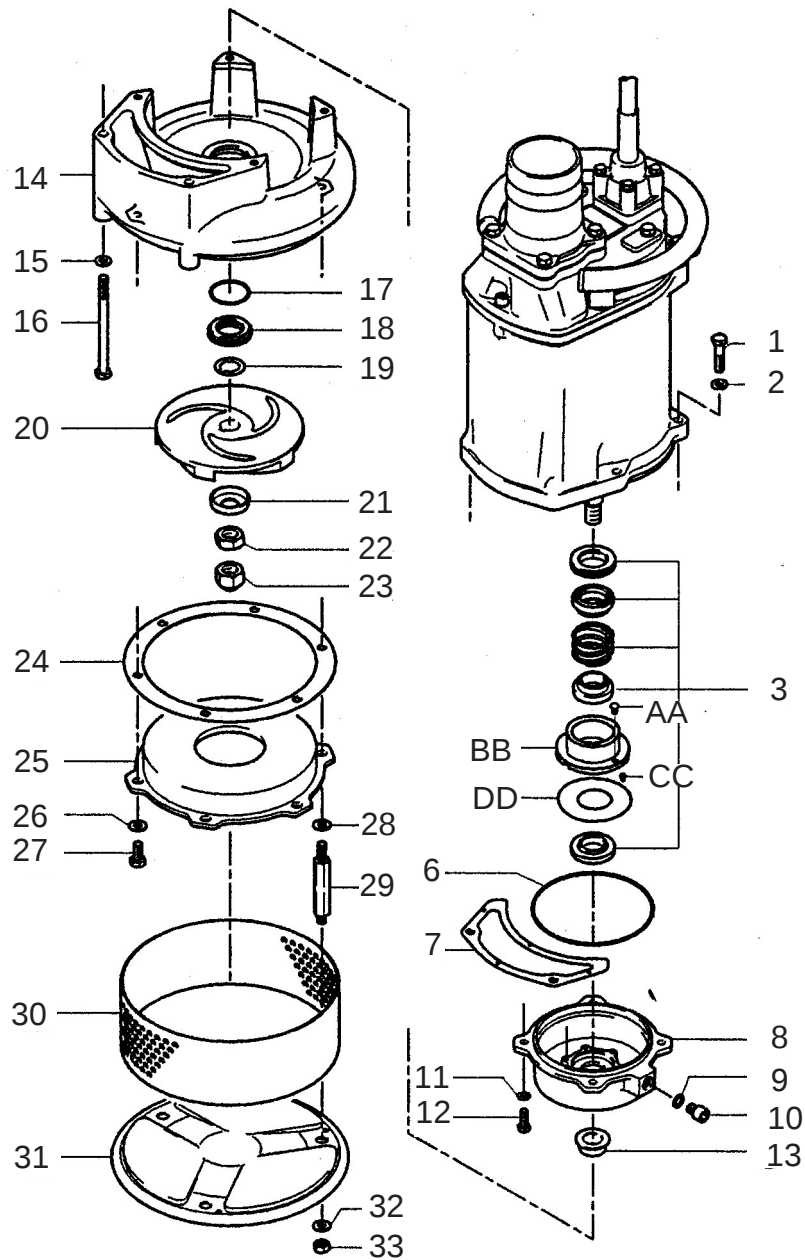
Note: The gaskets and O-rings must be replaced with new parts. Also replace any parts that are worn or damaged.

2. Using a clean rag without lubricant, wipe the sliding surface of the mechanical seal (5). Apply lubricant to the outer circumference of the cushion rubber to facilitate insertion.

Note: For further details on how to install the mechanical seal (5), refer to the "Mechanical Seal Handling Procedure" that comes with the mechanical seal (5) that is sold separately as a spare part.

3. After installing the impeller (14), and after completing the reassembly, check that the impeller (14) rotates smoothly and that it does not come in contact with the suction cover (19).
4. To make sure that the pump operates normally, perform a trial operation before placing the pump back into service.

5.10 Graphic (7.5 kW, 11 kW)



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5.11 Graphic Components

Ref.	Description	Ref.	Description
1	Bolt	17	O-Ring
2	Lock washer	18	Sealing ring
3	Mechanical seal	19	Shim
AA	Screw	20	Impeller
BB	Oil Lifter	21	Thread cover
CC	Screw	22	Nut
DD	Retaining plate	23	Acorn nut
6	O-Ring	24	Gasket
7	Gasket	25	Suction cover
8	Oil casing	26	Lock washer
9	Gasket	27	Bolt
10	Oil plug	28	Lock washer
11	Lock washer	29	Stud bolt
12	Bolt	30	Strainer
13	Sleeve	31	Plate
14	Volute	32	Lock washer
15	Lock washer	33	Nut
16	Bolt	—	—

5.12 Disassembly Procedure for 7.5 kW and 11 kW

Note: Before disassembling, be sure to drain the lubricant from the pump.

The breakdown of pump shown is based on the construction of 7.5 kW model PS4 7503HH/HF.

1. Removing the plate (31) and the strainer (30):
After removing the nut (33) and the washer (32) from the bottom, remove the plate (31) and the strainer (30) from the pump.
2. Removing the suction cover (25):
After removing the bolt (27), washer (26), stud bolt (29), and the lockwasher (28), remove the suction cover (25) from the pump.
3. Removing the impeller (20):
Using a box wrench, remove the acorn nut (23), nut (22), and the thread cover (21); then remove the impeller (20) and the sleeve (13) from the main shaft.



WARNING

A worn impeller may have sharp edges that can cause injury, and should be handled with care.

4. Removing the volute (14):
After removing the bolt (16) and the lockwasher (15), remove the volute (14) from the pump.
5. Remove the oil casing (8) if necessary, and remove the mechanical seal (3).
After removing the bolt (12) and the lockwasher (11), remove the oil casing (8) from the pump. At this time, be careful not to damage the sliding surface of the mechanical seal (3). Remove the mechanical seal (3) from the main shaft.

Note: Also refer to the "Mechanical Seal Handling Procedure" that comes with the mechanical seal that is sold separately as a spare part.

Reassembly Procedure

1. The reassembly procedure is the reverse sequence of disassembly.

Note: After completing reassembly, do not forget to pour the specified amount of lubricant into the pump.

Note: The gaskets and O-rings must be replaced with new parts. Also replace any parts that are worn or damaged.

2. Using a clean rag without lubricant, wipe the sliding surface of the mechanical seal (3). Apply lubricant to the outer circumference of the cushion rubber to facilitate insertion.

Note: For further details on how to install the mechanical seal (3), refer to the "Mechanical Seal Handling Procedure" that comes with the mechanical seal (3) that is sold separately as a spare part.

3. After installing the impeller (20), and after completing the reassembly, check that the impeller (20) rotates smoothly and that it does not come in contact with the suction cover (25).
4. To make sure that the pump operates normally, perform a trial operation before placing the pump back into service.

5.13 Troubleshooting

Before ordering repairs, carefully read through this manual, then repeat the inspection. If the problem remains, contact your nearest dealer or Wacker Neuson representative.



ALWAYS turn off the power before inspecting the pump. Failure to observe this precaution can result in serious accident.

Problem / Symptom	Reason / Remedy
Pump fails to start.	■ No power is supplied (i.e. power outage). Contact the electric power company or an electrical repair shop. ■ Open circuit or poor connection of the cable assembly. Check if there is an open circuit in the cable assembly or wiring. ■ Impeller is obstructed. Inspect the pump and remove the obstruction.
Pump starts but stops immediately, causing the motor protector to actuate.	■ Impeller is obstructed. Inspect the pump and remove the obstruction. ■ Voltage drop. Correct the voltage to the rated voltage, or use an extension cable that meets the standard. ■ A 50 Hz model is operated at 60 Hz. Check the nameplate and replace the pump or the impeller. ■ The strainer is obstructed, and the pump was operated dry for long periods. Remove the obstruction. ■ Motor abnormal. Repair the motor or replace with a new motor. ■ The pump is picking up too much sediment. Place a concrete block under the pump to prevent the pump from picking up sediment.
The pump's head and pumping volume is decreased.	■ The impeller is worn. Replace. ■ The hose may be kinked or clogged. Minimize the number of bends in the hose. (In an area with a large amount of debris, use the pump in a meshed enclosure.) ■ The strainer is obstructed or buried. Remove the obstruction. Place a concrete block under the pump to prevent the pump from picking up debris. ■ The motor rotates in reverse. Interchange the power supply terminal leads.
The pump generates noise or vibration.	■ The bearing of the motor may be damaged. To replace the bearing, contact the dealer from whom you purchased the equipment, or the Wacker Neuson sales office in your area.

6 Technical Data

6.1 Standard Specifications

Applicable Liquids, Consistency and Temperature	Work drainage and Sand-Carrying Water 0–40°C (32–104°F)	
Pump	Impeller	Open Type
	Shaft Seal	Double Mechanical Seal
	Bearing	Shielded Ball Bearing
Motor	Specification	Dry Submersible Induction Motor (2-Pole)
	Insulation	Class B: 7.5 to 11 kW Class E: 1.5 to 5.5 kW
	Protection System	Circle Thermal Protector
	Lubricant	SAE 10W/20W Such as: –Turbine Oil ISO VG #32 –Shell Victrolia Oil #27 –British Pet Energol THB #32 –Gulf Paramount #32 –Tellus #T22 Shell Oil –Shell Turbo T32
Connection	Coupling (Barb, BSP, QD) Refer to BOM Product Matrix in Parts Section	

6.2 Operating Specifications

		PS2 1503	PS3 1503	PS2 2203	PS3 2203
Discharge	mm (in.)	50 (2)	80 (3)	50 (2)	80 (3)
Phase		3	3	3	3
Starting method		Direct Online			
Output	kW (Hp)	1.5 (2)	1.5 (2)	2.2 (3)	2.2 (3)
Rated current	A (V)	3.4 (400)		5.5 (400)	
Maximum head	m (ft)	21.5 (71)	14.4 (47)	26 (85)	20.4 (67)
Maximum capacity	L/min (GPM)	430 (114)	670 (177)	500 (132)	800 (211)
Solid size capacity	mm (in.)	8.5 (0.3)	8.5 (0.3)	8.5 (0.3)	8.5 (0.3)
Weight ¹	Kg (lb)	29 (64)	29 (64)	32 (71)	32 (71)

¹The weight (mass) given above is the operating weight of the pump itself, not including the cable assembly.

		PS2 3703	PS3 3703	PS4 3703
Discharge	mm (in.)	50 (2)	80 (3)	100 (4)
Phase		3	3	3
Starting method		Direct Online		
Output	kW (Hp)	3.7 (5)	3.7 (5)	3.7 (5)
Rated current	A (V)	7.5 (400)		
Maximum head	m (ft)	36.5 (120)	29 (95)	18 (59)
Maximum capacity	L/min (GPM)	450 (119)	900 (238)	1440 (380)
Maximum pressure	psi	50	44	26.4
Solid size capacity	mm (in.)	8.5 (0.3)	8.5 (0.3)	8.5 (0.3)
Weight ¹	Kg (lb)	55 (121)	55 (121)	55 (121)

¹The weight (mass) given above is the operating weight of the pump itself, not including the cable assembly.

		PS3 5503	PS4 5503
Discharge	mm (in.)	80 (3)	100 (4)
Phase		3	3
Starting method		Direct Online	
Output	kW (Hp)	5.5 (7.5)	5.5 (7.5)
Rated current	A (V)	10.8 (400)	
Maximum head	m (ft)	32 (105)	22.5 (74)
Maximum capacity	L/min (GPM)	1100 (291)	1750 (462)
Maximum pressure	psi	54	34.6
Solid size capacity	mm (in.)	8.5 (0.3)	8.5 (0.3)
Weight ¹	Kg (lb)	66 (146)	66 (146)

¹The weight (mass) given above is the operating weight of the pump itself, not including the cable assembly.

		PS4 7503HH	PS4 7503HF	PS4 11003HH	PS4 11003HF
Discharge	mm (in.)	100 (4)	100 / 150 (4 / 6)	100 (4)	100 / 150 (4 / 6)
Phase		3	3	3	3
Starting method		Direct Online			
Output	kW (Hp)	7.5 (10)	7.5 (10)	11 (15)	11 (15)
Rated current	A (V)	14.3 (400)		21.0 (400)	
Maximum head	m (ft)	40 (131)	31 (102)	49 (159)	32.5 (107)
Maximum capacity	L/min (GPM)	1400 (370)	2040 (539)	1440 (380)	2440 (645)
Maximum pressure	psi	60	44	73	46
Solid size capacity	mm (in.)	8.5 (0.3)	8.5 (0.3)	20 (0.8)	20 (0.8)
Weight ¹	Kg (lb)	93 (205)	93 (205)	130 (287)	130 (287)

¹The weight (mass) given above is the operating weight of the pump itself, not including the cable assembly.



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Daniel Weippert, Managing Director, Tsurumi (Europe) GmbH, Wahlerstraße 10, 40472 Düsseldorf, Germany

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NO Vi, Tsurumi Mfg. Co. Ltd., erklærer at seriens produkttype under (1), i levert tilstand, overholder alle følgende, relevante forskriftet under (2):
DK Vi Tsurumi Mfg. Co. Ltd., erklærer, at den pågældende type i serien i (1) opfylder alle følgende relevante bestemmelser i (2) i det land, den leveres i:
SE Vi, Tsurumi Mfg. Co. Ltd., försäkrar att produkttypen av serien under (1) i sitt levererade tillstånd uppfyller samtliga av följande relevanta villkor under (2):
FI Me, Tsurumi Mfg. Co. Ltd., vakuutamme, että kohdassa (1) mainittu sarjan tuotetyypin sen toimitusmuodossa täyttää kaikki kohdassa (2) mainitut relevantit määräykset:
EE Teatame, et meie ettevõtte Tsurumi Mfg. Co. Ltd. tootetüüp seerias (1) vastab kätetoimetamise hetkel kõigile asjassepuutuvatele sätetele (2):
PL My, Tsurumi Mfg. Co. Ltd., oświadczamy, że typ produktu serii określonej w (1) w stanie dostarczonym jest zgodny z wszystkimi następującymi odpowiednimi przepisami określonymi w (2):
HU Mi, a Tsurumi Mfg. Co. Ltd., kijelentjük, hogy az (1) szerinti sorozat terméktípus szállításkori állapot megfelel a (2) pont szerinti valamennyi alább felsorolt vonatkozó rendelkezésnek:
HR Mi, Tsurumi Mfg. Co. Ltd., izjavljujemo da tip proizvoda serije pod (1) u isporučenom stanju odgovara svim sljedećim relevantnim odredbama pod (2):
RS Mi, Tsurumi Mfg. Co. Ltd., izjavljujemo da je tip proizvoda serije pod (1) u svom isporučenom stanju u saglasnosti sa svim sledećim relevantnim odredbama pod (2):
RU Мы, компания Tsurumi Mfg. Co. Ltd., заявляем, что тип изделия серии (1) в его объеме поставки соответствует всем необходимым условиям согласно (2):
BG Ние, Tsurumi Mfg. Co. Ltd., kijelentjük, hogy az (1) szerinti sorozat terméktípus szállításkori állapot megfelel a (2) pont szerinti valamennyi alább felsorolt vonatkozó rendelkezésnek:
CZ My, Tsurumi Mfg. Co. Ltd., prohlašujeme, že typ výrobku řady uvedené v bodě (1) v jeho dodaném stavu splňuje všechna následující relevantní ustanovení bodu (2):
IS Við, Tsurumi Mfg. Co. Ltd., lýsum yfir að vörutegund gerðar sem skráð er sem (1) er í samræmi við eftirfarandi gildandi ákvæði (2) í því ástandi sem hún er afhent í:
LT Mes, įmonės „Tsurumi Mfg. Co. Ltd.“ atstovai pareikiame, kad skiltyje (1) nurodytos serijos produktas, kaip buvo pristatytas, atitinka visas toliau nurodytas atitinkamas nuostatas, kojos nurodyta skiltyje (2):
LV Mēs, Tsurumi Mfg. Co. Ltd., apliecinām, ka sērijas produkta tips, saskaņā ar (1), piegādātajā stāvoklī atbilst visiem attiecīgajiem noteikumiem, saskaņā ar (2):
RO Noi, Tsurumi Mfg. Co. Ltd., declaram că tipul de produs din seria indicată la punctul (1), în starea în care este livrat, respectă următoarele dispoziții relevante specificate la punctul (2):
SK Spoločnosť Tsurumi Mfg. Co. Ltd. vyhlasuje, že typ produktu série uvedenej v bode (1) v its delivered state spĺňa všetky príslušné nariadenia uvedené v bode (2):
SI Mi, družba Tsurumi Mfg. Co. Ltd., izjavljamo, da je vrsta izdelka serije pod točko (1) v dostavljeni obliki skladna z vsemi navedenimi ustreznimi določbami pod točko (2):

(1)
PST2 400, PST3 750, PS(A)2 500, PS(A)2 800, PS2 1500, PS(A)2 1503L, PS(A)2 2203L, PS2 1503, PS3 1503, PS2 2203, PS3 2203, PS2 3703, PS3 3703, PS4 3703, PS3 5503, PS4 5503, PS4 7503HH, PS4 7503HF, PS4 11003HH, PS4 11003HF

(2)
2006/42/EC, 2014/30/EU, 2011/65/EU + (EU)2017/2102 (CE-Marking, EN 809:1998+A1:2009/AC:2010, EN ISO 12100:2010, EN 60204-1:2018, EN 60335-1:2012/A2:2019, EN 60335-2-41:2003/A2:2010, EN 60529:1991/A2:2013, EN 62233:2008/AC:2008, EN IEC 61000-6-1:2019, EN IEC 61000-6-2:2019, EN 61000-6-3:2007/A1:2011/AC:2012, EN IEC 61000-6-4:2019, EN IEC 63000:2018).

Kyoto, Japan
November 25th, 2022
Tsurumi Manufacturing Co., Ltd.

Hi. Ishimura

Hirofumi Ishimura
Executive Officer & Plant Manager



Declaration of Conformity

Tsurumi UK Ltd.

Liphook Way, 20/20 Industrial Estate, Maidstone, Kent. ME16 0FZ, United Kingdom

Tel.: 01622 585858

Email: enquiries@tsurumi.uk

www.tsurumi.co.uk

Name and address of the authorized representative for the completion of the technical documentation to the authorities on request:

Matthew Hill, Managing Director, Tsurumi UK Ltd.,

Liphook Way, 20/20 Industrial Estate, Maidstone, Kent. ME16 0FZ, United Kingdom

We, Tsurumi Mfg. Co. Ltd., declare that the product type of the series under (1) in its delivered state complies to all following relevant provisions under (2):

(1)

PST2 400, PST3 750, PS(A)2 500, PS(A)2 800, PS2 1500, PS(A)2 1503L, PS(A)2 2203L, PS2 1503, PS3 1503, PS2 2203, PS3 2203, PS2 3703, PS3 3703, PS4 3703, PS3 5503, PS4 5503, PS4 7503HH, PS4 7503HF, PS4 11003HH, PS4 11003HF

(2)

SI 2008 No.1597, SI 2016 No.1091, SI 2012 No.3032 + SI 2019 No.492 (UKCA-Marking, BS EN 809:1998+A1:2009, BS EN ISO 12100:2010, BS EN 60204-1:2018, BS EN 60335-1:2012/A2:2019, BS EN 60335-2-41:2003/A2:2010, BS EN 60529:1992/A2:2013, BS EN 62233:2008, BS EN IEC 61000-6-1:2019, BS EN IEC 61000-6-2:2019, BS EN 61000-6-3:2007/A1:2011, BS EN IEC 61000-6-4:2019, BS EN IEC 63000:2018).

Kyoto, Japan
November 25th, 2022
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Hi. ishimura

Hirofumi Ishimura
Executive Officer & Plant Manager

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