

Operating Manual - Tiresonic GmbH Clean Wheel Solutions

# Operating Manual

**Wheel Washing Machine - Tiresonic RW 301**

Rim Washing Machine - Tiresonic FW-301



Service-Hotline: +49 (0) 7561 / 913 804



## Order Form / Replacement Parts Procurement

Intern: .....

.....

### Delivery Address (Stamp):

Serial Number: .....

Year of Construction: .....

Company: .....

Street: .....

Place: .....

### Billing Address:

(if different from delivery address)

Company: .....

Street: .....

Place: .....

Telephone: .....

### We hereby order the following items:

Amount (please list)	Item (please check)	Price (plus VAT.)
.....	<input type="radio"/> Cleaning agent 5kg	40,00€
.....	<input type="radio"/> Clamping cone for cars	94,00€
.....	<input type="radio"/> Clamping cone for trucks	98,00€
.....	<input type="radio"/> Adapter for 14"-Wheels	48,00€

Excl. the applicable shipping costs

Date: .....

Signature: .....

Master Copy - Don't Seperate



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## 1. Product Description

The wheel washing machine enables ideal cleaning results without pre or post treatment of car wheels with a diameter of up to 810 mm and width of 400 mm.

The patent registered ultrasonic technology cleans the wheels on the inside and outside in one operation.

The dirt on the rim and tire is rinsed by rotation during the cleaning process.

The Tiresonic cleaning agent is free of aggressive chemicals and is biodegradable.

The wastewater disposal can take place in an internal sludge container or liquid separators.

The quick clamping device enables a simple mounting of car wheels.

The mounted tire is effortlessly lifted or lowered by a pneumatically operated hoisting device.

The operation of the Tiresonic RW 301 takes place using the clearly arranged operating console.



## 2. Operating Range and Intended Use

The wheel washing machine is tested for function and durability. It provides efficiency and safety. It is up to you to use these advantages.

This requires correct operation, proper maintenance and great care for the washing machine. Please read the instructions carefully. They contain all the data necessary to keep the wheel washing machine ready for use at all times.

The wheel washing machine is used for cleaning motor vehicle wheels.

The wheel washing machine is solely designed for car wheels with a maximum diameter of 810 mm and width of 400 mm.

The lifting device is intended solely for lifting wheels with a max. weight of 60 kg.

When using the wheel washing machine in paint shops or areas with many solvent-based materials, beware of the risk of explosion.

The wheel washing machine is **not explosion-proof standard**.

The wheel washing machine is equipped with a safety device that ensures safe operation when correctly handled.

The wheel washing machine should only be serviced and repaired by factory-trained personnel.



### 3. Transport - Storage - Scope of Delivery

#### Transport and Storage:

The packaged wheel washing machine may only be lifted at the therefore designated points.

Grasping with the lifting truck outside the assigned points may lead to costly repairs.

The wheel washing machine should not be stored outdoors.

The wheel washing machine should only be unpacked at the installation site.

#### Unpacking

When unpacking the wheel washing machine and the accessories kit, make sure to check for possible damage in transit which should immediately be reported to the forwarding company and the Tiresonic company.

All components have to be laid out carefully so that nothing is lost with the disposal of the packaging materials.

#### Shipping-Listing

- 1 x Tire Washing Machine "RW301"
- 1 x Tank cover
- 1 x Quick clamping cone for cars
- 1 x Cleaning agent "UR 2.xx" 5kg for initial filling
- 1 x CEE connection cable, 5 m long, 16 A
- 1 x Compressed air connection hose, 5m
- 1 x Non-woven abrasive for cleaning the clamping device

#### Accessories (Optional):

- Cleaning agent "Tiresonic UR 2.xx" VP (5kg container)
- Clamping cone for cars (as a spare part)
- Clamping cone for transport vehicle
- Adapter for 14"- wheels
- Semi-automatic (Page 21)





### 3. Transport - Storage - Scope of Delivery

#### IMPORTANT INFORMATION!

#### for our end customers in case of TRANSPORT DAMAGE

##### Delivery:

Please carefully check the goods immediately after delivery in presence of the shipper.  
If the goods are damaged, no clean receipt may be given. Note the damage on the shipping papers as the circumstances require.

##### Notification of claim:

To ensure a quick and easy settlement of claims, damage taken through transport must be reported to the Tiresonic-Service-Partner on discovery.

The notification can be made by telephone, in writing or by fax/e-mail and should have the following content:

- Commission number of the Tiresonic-invoice and date of delivery
- Tire Washing Machine- type and serial number
- Accurate description of damage

(If necessary, use the back of this sheet.)

##### Damage repair and billing

A regulation of transport damage can only be managed by the Tiresonic company if a notification of claims is received within 3 working days after delivery in one of the above listed ways.

Repairs, replacement part deliveries and billing of transport damage will be carried out by your Tiresonic-Servicepartner.



### 3. Transport Damage Report

**FAX: +49 (0) 1805 / 881333-0\***

Wheel Washing Machine

Type:

Serial number :

delivered by

Delivery note no:

through

Company:

Date :

during

☐ delivery

☐ unpacking

the following damage was recorded:  
(exact description of damage)

-----

-----

-----

-----

-----

-----

-----

-----

The package was

☐ damaged

☐ not damaged

Place, Date

Customer

\* 0,14Euro/Min from the German landline network / mobile phone charges may vary, max. 0,42 Euro/Min.

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Transport - Storage - Scope of Delivery





## 4. Technical Data

Size (WxDxH):	880x1040x1800 mm / max. 2550 mm
Weight (unfilled):	200 kg
Stainless steel tank:	V2A steel sheet 2 mm
Water capacity:	270 l
Ultrasonic power:	2300 W
Heating	Up to 50°C with 4.5 kW
Driving motor power:	100 W
Carrying capacity of the lifting device:	60 kg
Max. wheel diameter:	810 mm
Max. wheel width:	400 mm
Wash programm:	
for normally soiled wheels	ca. 120 s
for heavily soiled wheels	ca. 180 s
Noise level (machine model "partly insulated") measured in 1m Distance	83 dB (A)
Noise level (machine model "fully insulated") measured in 1m Distace	77 dB (A)
Cleaning agent:	Tiresonic UR 2.xx
Mixing ratio: (according to the water hardness)	
approx. 2% dilution (270 l water and 5kg cleaning agent)	
The tensides contained in "Tiresonic" are at least 90% biodegradable according to TensV of WRMG.	
Electrical connection:	3 x 400 V, 16 A (slow acting)
Compressed air supply:	p max. = 10 bar p min. = 8 Hose
Fresh water supply:	
Waste water disposal:	1" outlet ball valve
(in light fluid seperator workshop floor drain)	

All details are subject to technical modification.



### Note

Generally, only original spare parts supplied by the Tiresonic company should be used!  
Accessories can be ordered according to the current price list!  
If foreign bodies are installede all forms of warranty will become invalid.



## 5. Safety Instructions

### General Safety Instructions

#### Company's duty of care:

The wheel washing machine was built and constructed under consideration of all mandatory harmonised standards and further technical specifications. It is therefore at the highest level of technology and offers maximum safety during operation.

However, the machine safety can only be implemented in operational practice if all actions necessary are taken. The operator of the wheel washing machine is obliged to plan these measures and check that they are being complied with.

The workplace lighting according to the EU regulations 89/655 EWG must be considered by the operator. Stability must be guaranteed by a level platform.

The operator must ensure in particular that:

- the wheel washing machine is only used as intended.
- the wheel washing machine is only operated in perfect working condition and the safety installations are checked regularly for functionality.
- required protective equipment for operating, maintenance and repair personnel is available and worn.
- the operating manual is complete and legible at all times as well as being available at the site of operation.
- only qualified and authorized personnel operate, repair and maintain the machine.
- this personell is regularly informed about relevant occupational safety and environmental protection, as well as knowing the operating manual and particularly the therein determined safety instructions.
- all safety and warning labels attached to the wheel washing machine are not removed and completely legible.

#### Employment



#### Accident prevention Regulations

of the

Employers' Liability  
Insurance Association

#### Operating Manual



## 5. Safety Instructions

### Basic safety measures for normal operation:

Only qualified and authorized persons are permitted to operate the wheel washing machine. These have to know the operating manual and be able to work accordingly!

Before turning on the wheel washing machine ensure that:

- only authorized persons are present in the working area of the wheel washing machine.
- no one can be injured by operating the wheel washing machine.
- the wheel washing machine is checked for visible damage before each use and only operated in perfect condition!
- any defects are reported to your superior immediately!
- all safety installations are functioning faultlessly before each operating session!
- inspection and service intervals defined in the operating manual are met.

### Basic safety measures for Servicing and maintenance:



Before performing any maintenance or repair work make sure to close off all access of unauthorized personnel to the working area of the wheel washing machine. Put up signs that call attention to the maintenance or repair work!  
Before performing any maintenance or repair work make sure to unplug power cord.



Before performing any maintenance or repair work make sure to unplug the power cable. When using permanently installed lines turn the main power switch off and secure with a padlock. The key to this padlock must be in the hands of the person performing the maintenance or repair work! When replacing heavy machine parts only use suitable and flawless lifting devices as well as sling gear!

Make sure to properly dispose environmentally hazardous lubricating, cooling and cleaning agents!

## 5. Safety Instructions

### Working on the electrical equipment:



- Only carry out work when the equipment is disconnected from the power supply.
- Repair work on the electrical equipment of the wheel washing machine may only be performed by a qualified electrician!
- Check electrical equipment regularly!
- Refasten loose connection!
- Replace damaged lines/cables immediately!
- Keep housing provided for electrical equipment closed at all times! access is limited to authorized personnell with a key and appropriate tools!
- Never clean the housing provided for electrical equipment with a hose pipe!

### Note environmental regulations:

While working at or with the appliance, the legal responsibilities for waste-avoidance and proper recycling have to be followed.



Especially during installation, repair and maintenance water polluting substances such as

- greases and oils
- hydraulic oil
- cooling agent
- solvent-based cleaning agents

must not infiltrate the ground nor reach the sewage system.

These substances must be stored, transported and collected in suitable containers and then disposed of!



## 5. Safety Instructions

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### General Safety Instructions for Wheel Washing Machines



The wheel washing machine may only be used to wash car tires complying with the technical data.  
Rims and wheels contaminated with oil and grease must be manually cleaned before being washed in the wheel washing machine. Other vehicle parts exposed to oil and grease should under no circumstances be put into the washer - the washing water will lose its effect!



Only suitably trained staff may operate the machine.



Safety devices should not be replaced.



Necessary repair work must be performed by trained service personell. By unauthorized modifications to the systemall, liability on the part of the manufacturing company is extinguished.



Work on the electrical installation may only be carried out by qualified electricians.



The wheel washing machine should not be operated in potentially explosive atmospheres.



If there is a danger of frost the cleaning agent must be removed from the machine.



Only permissible cleaning agent "Tiresonic UR 2.xx" may be used. If other cleaning agents are used the manufacturing company is exempt from all liabilities.



## 5. Safety Instructions

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### Specific Safety Instructions and Frequently used Symbols

The following operating manual safety instructions point out unavoidable residual risks that may arise while operating the wheel washing machine. These residual risks include danger for:

- People
- Product
- Environment

The symbols used in this operating manual are primarily intended to call attention to the safety instructions!

The primary purpose of these safety instructions is to prevent personal injuries.

The respective safety symbol does not replace the corresponding text. Therefore, always read the entire text carefully!



When using the ultrasonic mode don't reach into the water bath.  
(liquid approx. 50°C hot)  
Wear protective PVC gloves.



Use a skin protecting agent before and after operating the wheel washing machine.



Warning of dangerous electrical voltage.  
Before opening the control cabinet make sure the main switch is at „0“ and secure it from being switched back on again.  
(if necessary disconnect the power cord)



During the lifting, lowering and pivoting process no person may remain in the working area of the wheel dolly! On completing the work process, swing the pivot arm outside the basin in an upright position.



Dispose sewage through internal sludge tank or light fluid separator.



Hinweis

This symbol does not refer to any safety instructions but offers important notes for better understanding of the machine functions and its operation.



Wear hearing protection.



Danger of crushing.





## 5. Safety Instructions

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### Safety Instructions Regarding the Cleaning Agent "Tiresonic UR 2.xx"

Safety Instructions

Safety instructions for the preparation of a 2% cleaning agent solution with  
100% cleaning agent (product description Tiresonic UR 2xx)

**when handling Tiresonic UR 2.xx pur:**



Harmful und irritant substance.



Wear protective PVC gloves.



Wear protective goggles.



Avoid skin and eye contact.  
On inhaling atomized spray, eye contact or ingestion, consult a doctor.



Do not allow to enter the drains, surface and ground water. Absorb spilled cleaning agent with liquid binding materials (sand, turf, saw dust). Wash away residue with plenty of water. Dispose of in accordance with regulations:  
EWC/EAK-Code: 0706 08



## 6. Supply Connection (on-site)

The electricity supply of the wheel washing machine on-site takes place via a CEE-cable connected to the electricity network 400 V / 3 phases / 16 A (slow acting).

The socket must have a right-handed rotary field. (DIN VDE 0 100 part 560, point 4.7)



### Note

Electrical connections should only be performed by qualified electricians. The warranty does not cover damage that may occur due to failing to observe the direction of rotation.

The fresh water is supplied via an external water pipe.

The used cleaning agent is drained via the 1" outlet ball valve into the workshops light fluid separator (workshop floor drain).



## 7. Handling and Behavior During Operation

### Assembly and Mounting



#### Note

#### Caution:

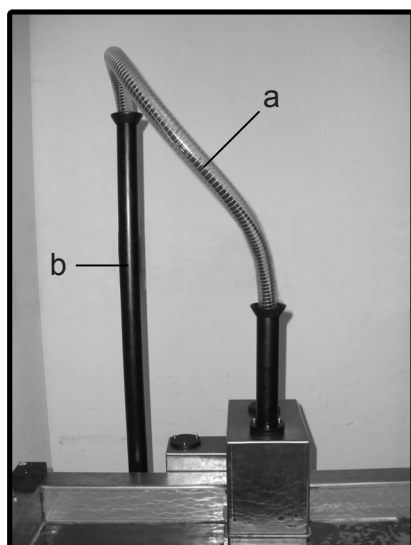
The filled machine is not allowed to be switched off if installed on a site prone to frost. Alternatively drain the water! Damage due to frost is born by the customer.

Place the machine in the intended position and align the tank horizontally using the integrated bubble tube.



Mount the cable tube on the back board using the available screws.

Ensure that the cable tube is not twisted!



It is important to ensure that the cable conduit (a) can move freely and is not obstructed by other objects.

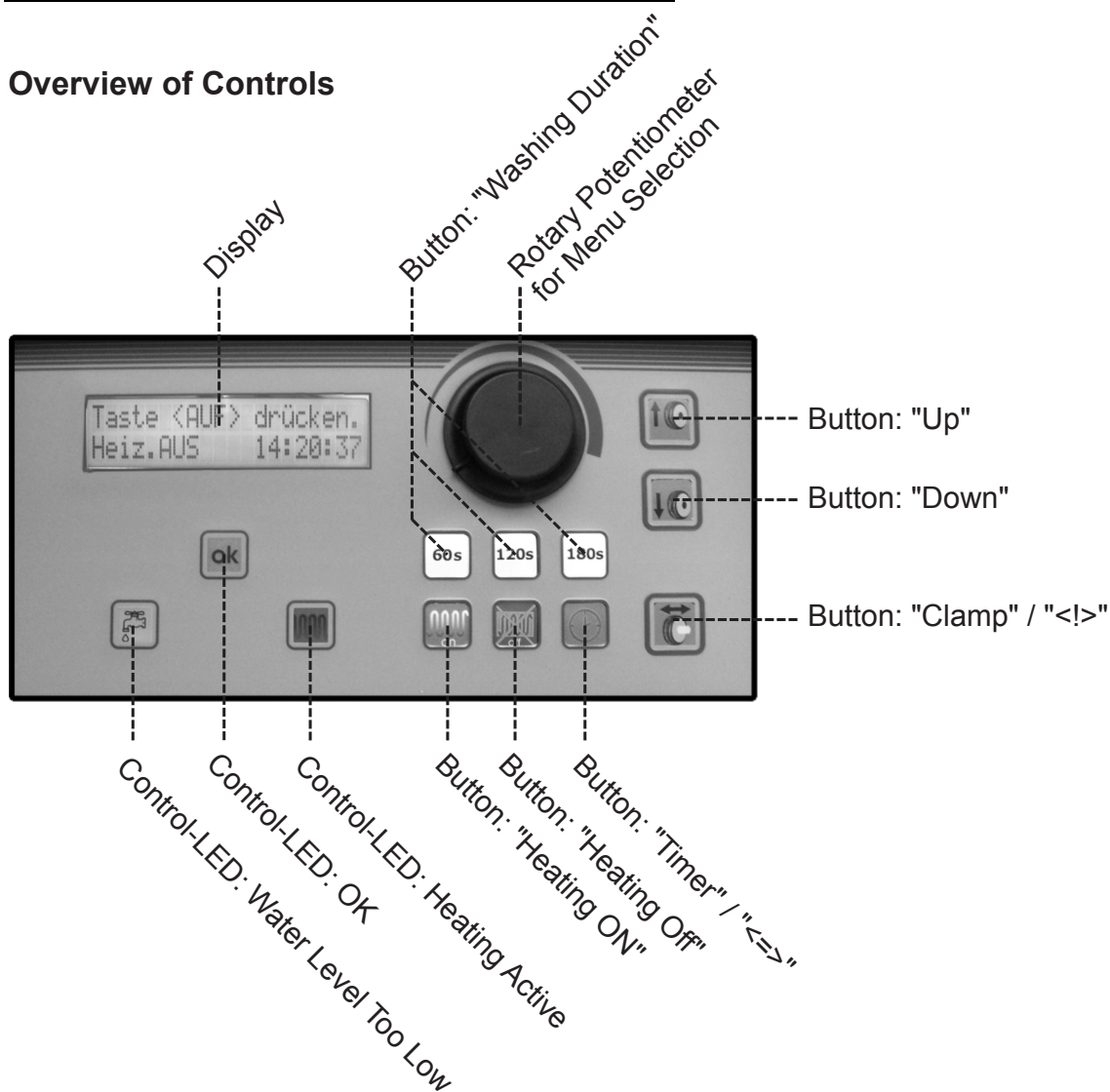
The cable tube (b) on the back board is not a stop and must not be mechanically stressed!

Connect to power supply and pressurized air.



## 7. Handling and Behavior During Operation

### Overview of Controls



### Heating Modes

Note: After switching on the machine, the heating is always active!

Taste <AUF> drücken.  
Heiz.EIN 14:20:23

Heating always active  
Activate by pressing <Heating On>

Taste <AUF> drücken.  
Heiz.AUS 14:20:37

Heating always off  
Activate by pressing <Heating OFF>

Taste <AUF> drücken.  
Schaltuhr 14:20:45

Heating activated by timer  
Activate by pressing <Timer>



## 7. Handling and Behavior During Operation

### Initial and Follow-up Operation

#### Preparatory work:

Turn the main switch to ON ( I ).

Press the <Open> button.  
The stroke unit will now move up.  
A message will then appear '<Lift up>'.

During the lifting, tilting and lowering operation, no one should stand in the range of operation of the wheel dolly.

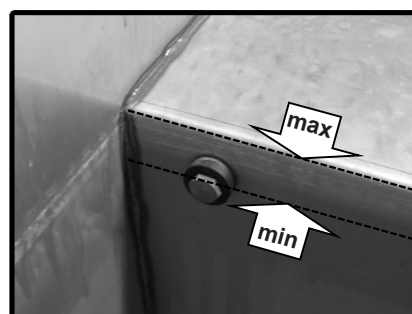
It is necessary to check that the wheel dolly runs straight up and doesn't turn to the side (if so, correct the alignment of the machine).

Fill the cleaning tank with cold or pre-heated water to above the level sensor.

Add 5 Kg cleaning agent "Tiresonic UR 2.xx" for a new filling and dissolve completely by stirring.  
No cleaning agent should remain on the tank floor!

The cleaning tub will automatically be heated to operating temperature (ex factory approx. 50°C).

The machine is now ready for operation.



#### Reinigungsmittel "Tiresonic UR 2.xx"



Harmful and irritant substance!  
Pay attention to safety instructions!



When filling with the cleaning agent, wear personal protective equipment!



the Ultrasonic oscillators must be covered with liquid during operation!  
If the water level is too low, the ultrasonic mode will not function and the yellow water level lamp will light up.





## 7. Handling and Behavior During Operation

### Initial and Follow-up Operation

#### Cleaning Process:

##### Clamping the wheel

Put the pneumatically driven wheel dolly in the lowest position with the button <Down> (this is the operating position for clamping and removing the wheel).  
(The wheel dolly will automatically stop in the lowest position.)

Release the support shaft by pressing <Clamp> .  
Remove the clamping cone from the supporting shaft of the clamping device.

Use the plastic cone (Pos. 1) of the quick clamping device (for car wheels with centre hole centering).

Push the wheel onto the support shaft as far as possible.  
Mount the cone with the small diameter onto the supporting shaft and snap the bayonet catch into place by slightly rotating clockwise.

To tightly clamp the wheel, hold <Clamp> pressed for 2 seconds.

If the button is released before the 2 seconds have passed, the supporting shaft will open for safety reasons.





## 7. Handling and Behavior During Operation

### Initial and Follow-up Operation

Immersing the wheel into the cleaning bath

Vie button control drive the pneumatically driven wheel dolly into its uppermost position.  
(the wheel dolly will automatically stop in the uppermost position)

Rotate the supporting arm in center above the cleaning bath by hand.

<Lift auffahren> 7s  
Heiz.EIN 00:00:00



Using button control lower the pneumatically driven supporting arm of the wheel dolly and the mounted wheel completely into the stainless steel bath, filled with cleaning agent.  
(The wheel dolly will automatically stop in washing position.)

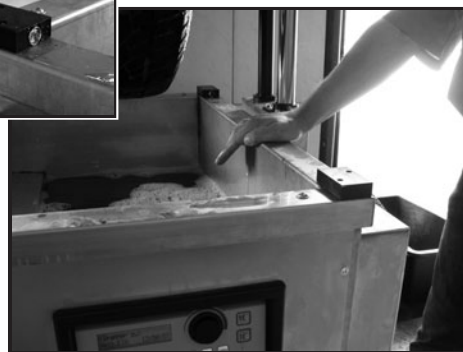
<Lift abfahren> 8s  
Heiz.EIN 00:00:00



The light barrier protects against bruising and crushing.

<Auff.Hindernis> 7s  
Heiz.EIN 00:00:00

<Warten Hindern>  
Heiz.EIN 00:00:00



## 7. Handling and Behavior During Operation

### Initial and Follow-up Operation

Starting cleaning

Press the "60s" button for lightly soiled, "120s" button for normally soiled and "180s" button for heavily soiled rims.

<Rad waschen> 161s  
Heiz.EIN 00:00:00

Waschzeit: 60s  
Heiz.EIN 14:56:00

The washing program will now run automatically. The material and environmentally friendly ultrasonic cleaning technology, combined with the wheel rotation ensure extremely clean wheels without additional manual work. It is also an active contribution to environmental protection.

### Caution: Good washing results only with setpoint temperature and degassed water!

After completing the ultrasonic cleaning process, the clean wheel will automatically be lifted out of the washing bath. Let the wheel drip off and swing outwards by hand. By pressing the button <Down> move into the lowest position and wind down the wheel.

<Lift auffahren> 7s  
Heiz.EIN 00:00:00



#### Extras: Semiautomatic

The semiautomatic mode allows the machine to be operated by using only one button. To simplify operation, the button is installed at knee height.

Here, the steps of procedure are systematically and automatically performed as follows:  
wheel clamping - wheel lifting - lowering of wheel and start of cleaning - wheel lifted out of the water - wheel lowered - clamping device loosened.



When handling wet wheels wear hand protection!  
Use suitable gloves made of PVC!

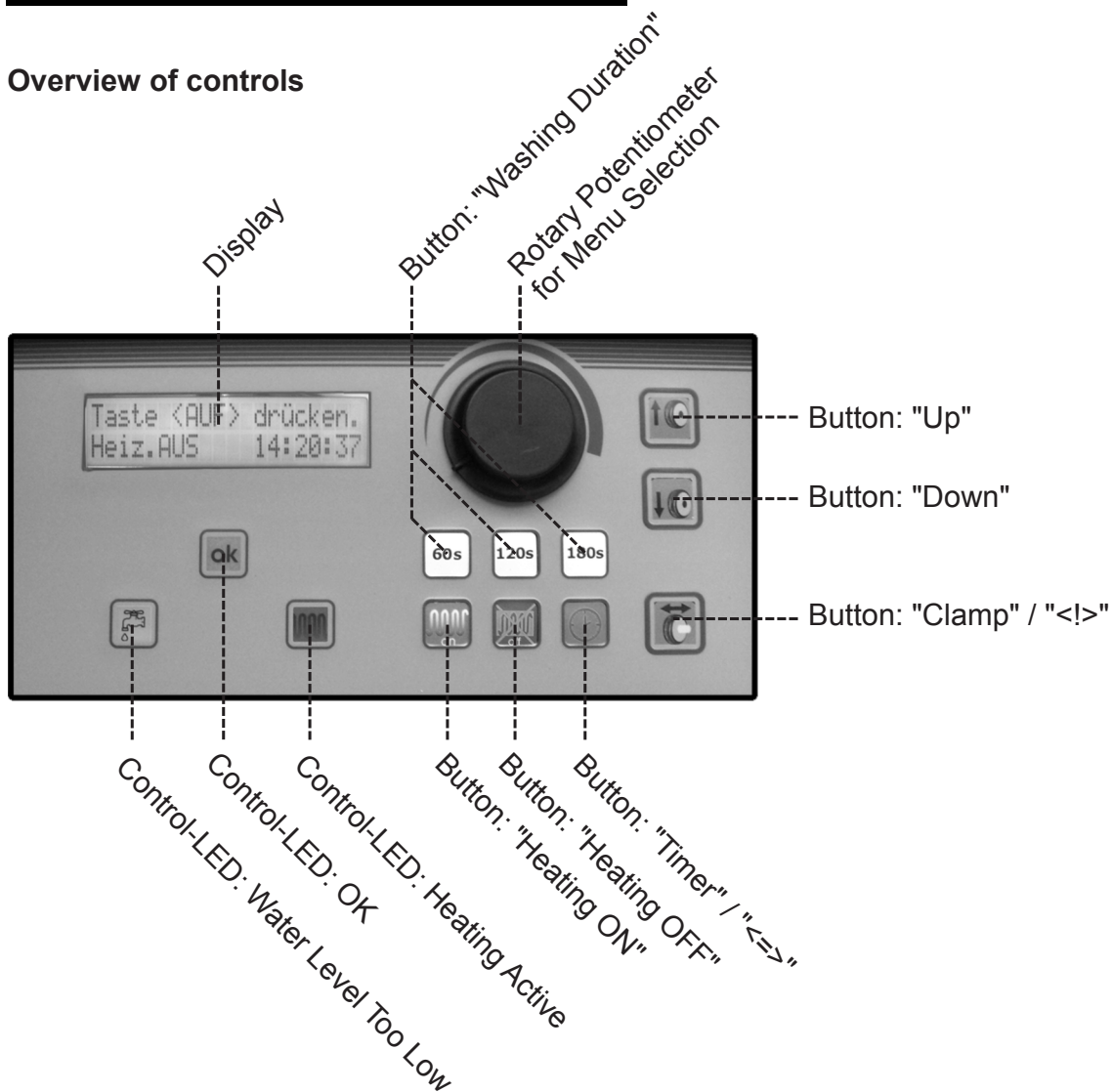


Use a skin protecting agent before and after washing a wheel.



## 8. Adjustments of Operating Parameters

### Overview of controls



### Heating Modes

Note: After switching on the machine, the heating is always active!



Heating always active  
Activate by pressing <Heating ON>



Heating always off  
Activate by pressing <Heating OFF>



Heating activated by teimer  
Activate by pressing <Timer>



## 8. Adjustments of Operating Parameters

### Water temperature setpoint

Press and hold the <Heating ON> button for 5 seconds.

The display will show:

Water temperature: 45°C  
End <=> Save <!>

Set the desired water temperature with the potentiometer (recommended: 45.0°C).

By pressing <Clamp> the water temperature will be saved and the menu exited.

By pressing <Timer> the menu will be exited without saving.

### Washing duration 60 s

A variable washing duration can be assigned to the 60 s button.

Press and hold the <60 s> button for 5 seconds

The display will show:

Washing Duration 1: 60 s  
End <=> Save <!>

Set the desired wash duration using the potentiometer.

By pressing <Clamp> the water washing duration will be saved and the menu exited.

By pressing <Timer> the menu will be exited without saving.

### Time and switching time

Press and hold the <Timer> button for 5 seconds

The display will show:

Time old: 09:19:56  
Time new: 09:19:56

The hours of the line "Time new" are flashing.

Set the hours using the potentiometer and save with the <Clamp> button.

By pressing <Timer> the menu "time" will be exited without saving.

The minutes of the line "Time new" are flashing.

Set the minutes using the potentiometer and save with the <Clamp> button.

By pressing <Timer> the menu "time" will be exited without saving.



## 8. Adjustments of Operating Parameters

The seconds of the line "Time new" are flashing.

Set the seconds using the potentiometer and save with the <Clamp> button.

By pressing <Timer> the menu "time" will be exited without saving.

The display will show:

Sw.time. On	Off
09:00	18:30

The hours of the switching time ON are flashing.

Set the hours using the potentiometer and save with the <Clamp> button.

By pressing <Timer> the menu "switching time" will be exited without saving.

The minutes of the switching time ON are flashing.

Set theminutes using the potentiometer and save with the <Clamp> button.

By pressing <Timer> the menu "switching time" will be exited without saving.

The hours of the switching time OFF are flashing.

Set the hours using the potentiometer and save with the <Clamp> button.

By pressing <Timer> the menu "switching time" will be exited without saving.

The minutes of the switching time OFF are flashing.

Set theminutes using the potentiometer and save with the <Clamp> button.

By pressing <Timer> the menu "switching time" will be exited without saving.

### Resetting the wheel counter for bath tank cleaning

Switch off the machin.

Press and hold the <60 s> button and switch on machine simultaneously.

The display will show:

Cleaning: XXX Wheels
End <=> Save <!>

Using the turn potentiometer, the desired number of wheels until the next cleaning can be adjusted.  
Default settings are 150 wheels.

Finally confirm with the <Clamp> Button or cancel without saving by pressing <Timer>.





## 9. Behavior in Case of Failure and Maintenance

### Failure



#### Note

If abnormal errors occur while operating the wheel washing machine, disconnect electricity, take out of service, secure against unauthorized usage and contact the customer service. All repairs must be performed by trained personnel.

**In general, when errors occur contact the customer service!**

(Service-Hotline: +49 (0) 7561 913 804)

### Maintenance



#### Note

Assuming normal use, the wheel washing machine should be maintained annually by the customer service.

#### Maintenance as needed:

- Clean light barrier
- Remove dirt from the quick clamping device for wheel fitting using the abrasive cloth enclosed. Clean (see picture on the right) and check for free movement.
- > For repurchase: 3M-Scotch-Brite grinding/polishing fleece grain size 280



#### After approx. 150 to 180 washes or in case of decreasing efficiency

- Dispose of cleaning water (through light fluid separator)
- Clean stainless steel tub. Remove residual sediments and refill with new cleaning agent (approx. 2% solution: In 270 l water 5 kg cleaning agent "Tiresonic UR 2.xx")

On completing the cleaning, make sure to reset the counter for the cleaning of the tub (see page 24).





## 11. Declaration of Conformity No. 08 30 07

11

Hiermit erklärt Tiresonic als Hersteller, in alleiniger Verantwortung, dass nachstehend bezeichnete Maschine in Konzeption und Bauart den grundlegenden Sicherheits- und Gesundheitsanforderungen den hier genannten EG-Richtlinien entspricht.

Bei Änderungen an der Maschine, die nicht mit uns abgestimmt und genehmigt wurde, verliert diese Erklärung ihre Gültigkeit.

### Bezeichnung:

RW 301

### Maschinentyp:

Radwaschmaschine

### EG-Richtlinien:

- 98/37/EG für Maschinen
- 2004/108/EG für Elektromagnetische Verträglichkeit
- 73/23/EG für Niederspannung

### DIN EN-Normen:

- EN 60204 Teil 1
- EN 60439 - 1
- VDE 701, VDE 702

### Technische Dokumentation:

- Entwicklungs- und Konstruktionsunterlagen
- Gefahren- und Risikoanalyse
- Sicherheitsgerechte Bedienungsanleitung
- Installationsanleitung

Herewith Tiresonic declares as a manufacturer its sole responsibility to ensure that the equipment named hereafter meets the safety and health regulations both in design and construction required by the EG Guidelines stated below.

This declaration becomes invalid if any changes are made to the equipment that were not discussed and approved by Tiresonic beforehand.

### Description:

RW 301

### Machine type:

Wheel washing machine

### EG-guidelines:

- 98/37/EEC for machines
- 2004/108/EEC for electro-magnetic compatibility
- 73/23/EEC for low voltage

### DIN EN-Standards:

- EN 60204 Part 1
- EN 60439 - 1
- VDE 701, VDE 702

### Technische Dokumentation:

- Design and construction documents
- Danger and risk analysis
- Operating manual based on established safety regulations
- Installation instruction

Declaration of Conformity No. 08 30

Hopferbach 30th August 2007



Betriebsleitung / Operations Manager

CE

