# DRESTER
# MONZA 10 & SILVERSTONE 12

ENG Operation manual




230312 rev.1 2015-01-22

DRESTER

**CONTENTS** **original language**

ENG


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ENG

**CAUTION**

Read this User Manual before using the
DRESTER MONZA 10 & DRESTER SILVERSTONE 12.

Do not use the unit unless you fully understand this User Manual.

This User Manual must be available and understandable to all users when using the unit.

## 1. GENERAL INFORMATION

This User Manual will provide important information concerning the MONZA 10 and SILVERSTONE 12, and will describe how to use the Wheel Washers safely. Read the entire User's Manual before using the unit. For safe use, it is important that the unit is handled properly. It is important that you follow the instructions carefully. Please refer carefully to all pictures in the end of this document for a complete understanding.

## 2. PURPOSE OF THE MACHINE

This machine is designed for cleaning of vehicle wheels i.e. the tyre and rim assembly. Any other area of use is prohibited. This high quality piece of equipment for professional users increases the service level and the efficiency in the workshop. The wheel washer cleans the wheels with an environmentally friendly cleaning method. Plastic beads (ShotMedium) and water are blasted onto the rim with pressure, ensuring a gentle and thorough cleaning for all kinds of rims. The dynamic flush pipe (Silverstone 12) moves slowly over the rims outside during the cleaning process and reaches every spot on the rim, especially good for cleaning high polished alloy rims, big tyres (SUV, transporters), and more sophisticated rims. Monza 10 cleans with two fixed nozzles with a sophisticated nozzle geometry.

The DRESTER GP Wheel Washer cleans the wheels in an environmentally friendly way. The machines work with a closed water system, and the water consumption per washed wheel is very low, approximately 1 l./wheel. The plastic beads and water clean the wheel thoroughly yet gently, and no detergents or chemicals are needed. All the DRESTER GP Wheel Washers can be used with an optimal water recovery system.

## 3. SAFETY INFORMATION

Hazards may arise from improper use of the MONZA 10 and SILVERSTONE 12. In order to maintain the high safety standard of the unit, it is important that these instructions are followed.

- Do not operate the unit until you have read and fully understood this entire User Manual.
- The unit should be installed as described in the instructions.
- The unit should be used as described in the instructions.
- The unit should be maintained as described in the instructions.
- Only original spare parts must be used.
- This User Manual must be available and in legible condition in close proximity to the unit. Every user should know where to find the User Manual.
- Operating instructions should be formulated on the basis of this User Manual for MONZA 10 and SILVERSTONE 12, and translated into the language spoken by the employees.
- Do not modify or in any way alter the unit.
- Wear goggles or similar, to protect your eyes from splashing water.
- Keep the enclosed rubber mat in front of the machine at all times, to prevent slipping if ShotMedium is dropped on the floor when using the machine.
- Educate the user for ergonomic lifting of wheels in and out of the machine. Use QUICK LIFT option for an ergonomic handling of the wheels. Clean up spills of ShotMedium on the floor immediately. ShotMedium may with time be lost on the floor.
  **It is absolute vital to sweep the floor regularly to avoid risk for a slippery floor (see picture 13).**
- The unit is equipped with a safety breaker that will interrupt the automatic wash cycle if the door is opened before the wash cycle is completed.
- **Caution:** Before removing the MotorCompartmentCover (see picture 3), make sure to disconnect the power supply and the airline supplying compressed air (see picture 4) to the machine.
- **Caution:** The MotorCompartmentCover (see picture 3) may only be removed by authorized personnel du to exposure of moving parts and easy access to electrical parts.
- This EU model may not be sold in NorthAmerica.

## 4. DETERGENT

There is a special detergent developed for this Wheel Washer if required.
**PLEASE NOTE: Warranty is void if a non approved detergent or chemical is used in the machine.**

## 5. SHOTMEDIUM

The ShotMedium mixture of plastic beads that is blasted onto the wheel to clean it, is carefully designed to give the best possible washing result without damaging the rims. It has specially adapted floating properties, degrees of hardness and wearing qualities. The ShotMedium can be ordered using the number R9280 (bag containing 25 kg) or R3230 (bag containing 20kg). In an empty Wheelwasher 25kg ShotMedium is needed.
**PLEASE NOTE: Warranty is void if a non approved plastic beads are used in the machine.**

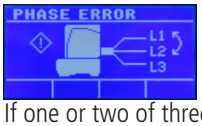
## 6. INSTALLATION

- First of all, check if the machine has been damaged during the transport. If so, report this immediately to the transport company.

- Remove the packaging and check again that the machine has not been damaged during the transport. If so, report this immediately to the transport company.
- It's possible to lift the machine from the front and from the back.

**PLEASE NOTE: The forklift must reach all the way under the machine (see picture 1) and out on the back (see picture 2). The fork lift should be entered slightly offset to the right, measured from the center of it. There's a bulge beneath the machine on the left side of it which contains the internal drain gutter.**

- Place the machine in a horizontal and stable position (it must not tilt on three legs). If the floor is not level, fill the gap between floor and legs with shims until the machine is level. **Machines not standing correctly might have problems with sticking or leaking door. Raise or lower one leg at the time until problem disappears.**
- The machine is equipped with phase recognition which will prevent the pump motor and drive motor of running in the wrong direction. If phases are connected wrong, the machine will be disabled until phases are switched. This is shown in the LCD with title PHASE ERROR.




- If one or two of three phases are missing, the machine will recognize this and the title PHASE MISSING will be shown.


- In case of any of these problems occur, they must be corrected by a professional electrician.
- Connect compressed air of max 12 bar (174 psi) and min 8 bar (116 psi).
  The connector is placed on the back of the unit (see picture 4). Make sure that the air feed line to the machine is large enough to avoid pressure drop.
- Open the door and remove the ShotMedium Basket (see picture 17). Put the basket aside for use later when cleaning the machine (see chapter 11). Empty the enclosed bag with ShotMedium completely into the machine.
- To the below right in the wash room there is a red water level indicator (see picture 14) with two notches. Fill the machine with water, so that the ShotMedium level is within the lower notch (see picture 15) of the indicator. **PLEASE NOTE: Correct water level is extremely important (see chapter 12).**
- Place the enclosed rubber mat in front of the machine, to prevent slipping if ShotMedium is dropped on the floor when using QuickLift (see picture 12).
- If there is a risk of temperature below 0°C , the machine must be emptied of water. Otherwise the pump as well as the bottom tray will be damaged if the water freezes.

## 7. INSTRUCTIONS FOR USE

1. Turn on the red/yellow main switch (see picture 3).

2. Open the door (see picture 3) and place the wheel into the machine, the outside of the wheel to the right as this side washes most efficiently.

**PLEASE NOTE: Decoration covers i.e. plastic center cap and valve cap must be removed before washing the wheel (see picture 8).** As this may cause operational disturbances if it falls off during the wash cycle (see chapter 17).

Wheels with protruding surfaces on the rim protruding **more than 13 mm (1/2")** beyond the tyre, are under no circumstances to be washed in the Wheel Washer (see picture 9). The protruding surfaces can be damaged.

If narrow wheels are incorrectly placed in the wash room, it can be difficult for them to rotate during the wash cycle. **Place the wheel in a way that it stands as straight as possible to minimize the risk that it will slide during the wash cycle (see pictures 10 and 11).**

3. Close the door. **Never let go of the door, before it is either fully closed or fully open.**

4. Start the machine (see chapter 10.3) by pressing one of the operation buttons.

5. Finally, always check that there are no ShotMedium left on the rim before it is mounted onto the car.

After cleaning, the wheel will continue to rotate, and the ShotMedium on the wheel will be blown off by compressed air. When the wheel has stopped rotating, the wash cycle is completed, and the wheel can be taken out. Wash and air blowing times are adjustable, (see chapter 10.4)
The machine is equipped with a safety switch (see picture 22) that supervises if the door, is open or closed. This switch will prevent the machine from operating if the door is open. Should you open the door during operation, the washing will be interrupted immediately. To resume washing, close the door and start the wash program again. The machine will then restart the program, not continue the interrupted program.

## 8. RUNNING-IN

When the machine is new, the inside surface of the pump and pipes will be smoothened and fragments of the ShotMedium will disengage. An extra change of water and rinse of the machine after 100 washes is therefore strongly recommended. The ShotMedium should then also be rinsed with water while they are collected in the basket.

## 9. FUNCTIONS ON THE CONTROL PANEL

**Monza 10**


**Silverstone 12**


### 9.1 LCD DISPLAY

### 9.2 AUTO START

If the same program is frequently used, it's possible to automatically start that wash program.
Load the wheel into the machine and close the door. Activate AutoStart. The AutoStart icon will now show up in the LCD indicating that AutoStart is active. Start the wash program you wish to be used for AutoStart. Next time the door is closed, the machine will automatically repeat this program.
The AutoStart will repeat the wash program, until AutoStart button is pressed again.

### 9.3 SHOTMEDIUM COLLECTION

The water should be changed every 300 wash cycle. To do this, press the ShotMedium collection button.

MACHINES WITHOUT WATER CLEANING: Press the ShotMedium collection button. The machine will automatically start collecting the ShotMedium. See chapter 11 for instructions of changing the water.

MACHINES EQUIPPED WITH WATER CLEANING: If your machine is equipped with the water cleaning kit, there are two new choices after the ShotMedium collection button has been pressed.
You can now choose between ShotMedium collection and water cleaning. The ShotMedium collection is pre-defined.
By starting this, just press ENTER again. See chapter 11 for instructions of changing the water.
After the ShotMedium collection is finished, the water cleaning icon will be pre-marked. Press ENTER to start this session, or BACK or STOP to abort.

### 9.4 OPERATION BUTTONS

Operation buttons for choosing Wash Programs, and navigate in the Settings Menu.

### 9.5 STOP

STOP Aborts wash programs and takes the user to main screen from settings.

### 9.6 STD/SUV WHEELS (SILVERSTONE ONLY)

The machine is default set at wheel dimensions up to 20". Washing wheels larger than 20", or SUV-wheels, press the button. An icon showing that SUV-mode is activated will now show up in the LCD.

In SUV-mode, the dynamic arm will make a larger sweep to clean the bigger rim area. The SUV-mode will automatically cancel after four wheels have been washed.

**If you wish to cancel the SUV-mode, just press the button again. The STD/SUV icon up in the LCD will now disappear and the machine is optimized for standard wheels.**

### 9.7 SETTINGS

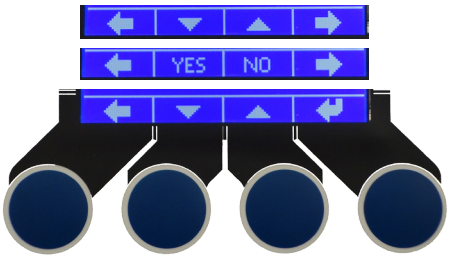
The Settings mode enables you to view and change advanced system parameters. Thanks to our sophisticated control system in this wheel washer many settings can be altered. This is normally not a part of the everyday use.

To enter settings, press the button on the user panel.

## 10. USER INTERFACE

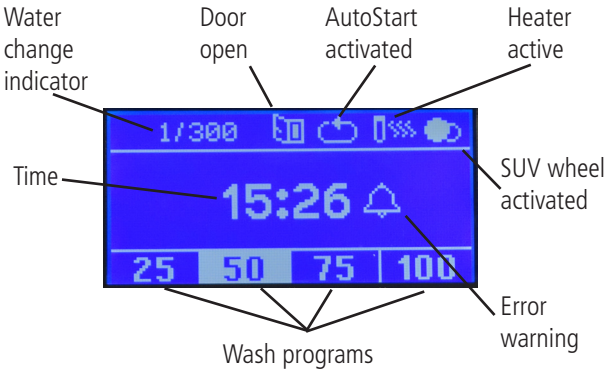
### 10.1 BASIC NAVIGATION

- The display shows four software defined options in the bottom field.
- To adjust values, use the operation buttons. Usually the furthest right is ENTER or NEXT, and the left is BACK or CANCEL.
- You can always abort by pressing the STOP-button.




### 10.2 MAIN SCREEN

Water change indicator
Door open
AutoStart activated
Heater active
SUV wheel activated
Time
Error warning
Wash programs



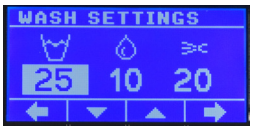


### 10.3 WASH PROGRAMS

- Start a wash cycle by pressing one of the operation buttons
- The machine will start and display the chosen wash cycle together with a wash icon. When washing is finished, blowing (or optional CleanRinse) will start.
- After air blowing is finished, a checkmark will appear. This indicates that the wash cycle is finished.


- **PLEASE NOTE: If 300 washes are exceeded, a warning will flash alternately with the checkmark after finished washing cycle.**

- **The machine will also remind the user of checking water level since this is important for the wash performance. This is done by flashing an icon of the water level indicator alternately with the checkmark.**

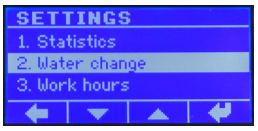




### 10.4 EDIT WASH SETTINGS

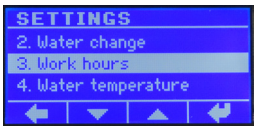
The wash programs are editable, both wash time and air blow time. Hold the wash program button pressed down for 3 sec for the program that should be edited. The screen WASH SETTINGS will show up. Increase or decrease the time with the operation buttons.
Increasing the CleanRinse-time should be done with caution. A longer time will consume more tap water.

## 10.5 SETTINGS


**10.5.1** Statistics




**10.5.2** Water change



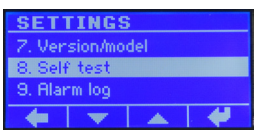

**10.5.3** Work Hours/Intelligent Heater


**10.5.4** Water temperature/Heater

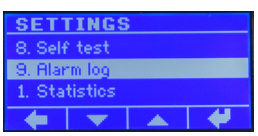

**10.5.5** Time


**10.5.6** Factory reset

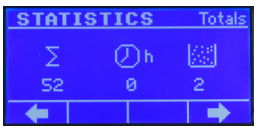

**10.5.7** Version/Model




**10.5.8** Self test

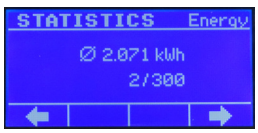



**10.5.9** Alarm log



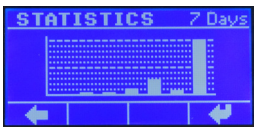

### 10.5.1 Statistics Totals

The machine logs total number of washes, total operated time and total number of ShotMedium collections.



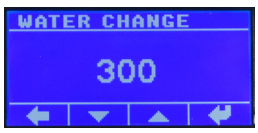

### Statistics Energy

The machine is equipped with an advanced current monitoring system which makes it possible to determine the consumption of the pump motor. This is shown as an average consumption/wash and is automatically reset every time the machine is cleaned. The value is different depending on how long the average wash cycle is.




### Statistics 7 days

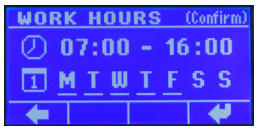
The machine can also identify the amount of use during the last seven days, illustrated in a graph. This can be used for identifying peaks in work load.




### 10.5.2 Water Change

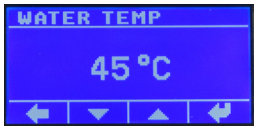
If the Clean Rinse option is being used in the machine, the water change intervals may be increased to approximately 400 washes.





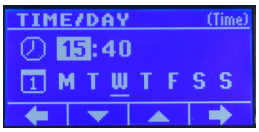

### 10.5.3 Work Hours/Intelligent Heater

The DRESTER GP-Series is equipped with an intelligent water heating system that saves up to 50% more energy than a traditional thermostat controlled heater. Enter the time for when the machine should be ready for washing in the morning, the time for when the machine is no longer used in the afternoon and which weekdays the schedule should be active.
The machine will then automatically start heating the water in time so that it is at desired temperature at the "STARTTIME". The machine is default set at 7:00-16:00, MON-FRI. This means that the water will be at operation temperature between these hours.
If intelligent heating for some reason isn't desired, set the time schedule from 00:00-00:00, MON-SUN and the heater will keep the water warm 24 hours, 7 days a week.

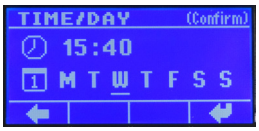



### 10.5.4 Water temperature/ Heater

The water temperature is adjustable between 30-50°C.
The heater can also be turned off by decreasing temp until OFF is shown in LCD.
The factory setting of the water temperature is 45°C. This value **may NOT** be increased since the water will be too hot and lead to risk of burning injuries.





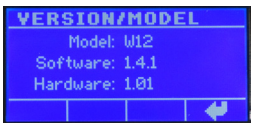



### 10.5.5 Time

It is important that time and week day is correct since various functions in the interface are dependent of it.

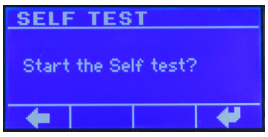

### 10.5.6 Factory Reset

Use this to reset the machine to factory standard.
If you accidentally entered the menu, just press back or use the STOP-button.



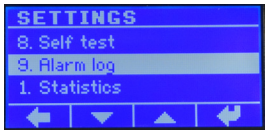

### 10.5.7 Version/Model

Shows what version of software (SW) and hardware (HW) the machine is using.




### 10.5.8 Self Test

The self test makes it possible to run every function individually in the machine. It is used i.e. when new options are installed, to control that they are working properly. It can also be used for troubleshooting the machine.
The self test should only be used by authorized personnel.




### 10.5.9 Alarm Log

The alarm log is logging all error codes. The errors will be displayed in the LCD when they occur. There are two different types of alarms A- and B-alarm. A indicates fatal errors that makes the machine dangerous to use.
B indicates all other errors.
These error codes are saved to an alarm log where you can go back and see type of error code, how many days ago it occurred and the time.
See chapter 17 Trouble Shooting for error code list.

## 11. CHANGE OF WATER

After washing 300 wheels, the water must be changed and the machine cleaned.

**PLEASE NOTE: If moving the unit filled with water, the forklift MUST reach all the way under the machine (see picture 1) and out on the back (see picture 2). The fork lift should be entered slightly offset to the right, measured from the center of it. There is a bulge beneath the machine on the left side of it which contains the internal drain gutter.**

1. Top up with water until the water level reaches the upper notch of the red level indicator (see picture 14). Place the ShotMediumBasket in the wash room and close the door. **PLEASE NOTE: Place the ShotMedium Basket with the side opening to the left (see picture 17).**

2. Press the ShotMedium collection button (see chapter 9) and let the machine run until it stops automatically (approximately 5 min). If needed, run this ShotMedium collecting program 2 times.
   As the ShotMedium is collected in the basket, you can easily check that you have the correct amount of ShotMedium, by checking that the ShotMedium level reaches the notches on the front of the basket (see picture 17). If this is not the case, top up with more ShotMedium.

3. Remove the dirt sediment from the bottom of the machine with a hand bailer and then rinse the machine. **PLEASE NOTE: The residues from the machine must be handled as hazardous waste.**

Put the ShotMedium back into the machine by turning the basket over inside the machine and top up with water until the lower notch of the red level indicator is reached (see picture 15).

**PLEASE NOTE: The heater will be turned off at the start of ShotMedium collection. The heater will automatically be turned on again after starting a wash cycle.**

## 12. DAILY MAINTENANCE

(see picture 14 and 15)
The water level must be checked daily and adjusted when needed. **The machine will not operate properly if the water level is wrong.** It will wash less efficiently and the risk of blocking the flush pipes will increase.

Check that no foam develops in the machine. This can happen if you wash many wheels from cars that have just been cleaned in automatic car washers. Likewise foam can develop if you add detergents other than the recommended (see chapter 4) to the water. **Foam will cause malfunction.** The machine will wash less efficiently and the risk of blocking the flush pipes will increase.

ShotMedium may with time be spilled on the floor. It is **absolute vital to sweep the floor regularly** to the avoid risk for a slippery floor.

## 13. SERVICE

- Before removing the MotorCompartmentCover (see picture 3), make sure to disconnect the power supply and the airline supplying compressed air (see picture 4) to the machine.
- The MotorCompartmentCover (see picture 3) may only be removed by authorized personnel due to exposure of moving parts and easy access to electrical parts.

## 14. IMMERSION HEATER

(see picture 20)
- The immersion heater default setting is scheduled so that the water temperature is at operation temperature between 07:00 and 16:00, Monday to Friday (see chapter 10.5.3).
- The factory setting of the water temperature is 45ºC. This value **may NOT** be increased since the water will be too hot and lead to risk of burning injuries.
- The heater will automatically be turned off at the start of ShotMedium collection. The heater will automatically be turned on again after starting a wash cycle.

## 15. QUICKLIFT (OPTIONAL)

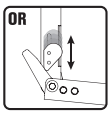
Congratulations on choosing one of the quickest lifts available on the market. The Patent Pending QuickLift lifts up to 60kg wheels up to loading position in approximately 4 seconds which is faster than all competitors. In fact, it is so easy to work with that it is a natural feature not only for heavy SUV-wheels, but for all wheels that goes into the wheel washer.

The QuickLift is designed for both lifting the wheel into the machine and lowering the wheel back down on the floor. Users who want to bounce the wheels back down on the floor should close the plate before doing this. Bouncing heavy wheels on the plate might deform it.

Before using the QuickLift, read these instructions carefully.

### 1. Installation

When the machine is installed (see chapter 6), the lift plate must be correctly adjusted. This can't be factory set, since most shop floors are not level. Ignoring adjusting the lift will void the warranty. Not adjusting the lift before use may cause damages to the floor from the plate being dragged along the floor, or damages to the lift from dropping wheels on it.




Unfold the lift plate by pulling the sprint on the bottom right side. Adjust the opening angle of the plate by moving the eccentric washer on the bottom left side up or down. The plate should touch the floor, but should separate from the floor as soon as the lift starts moving. If the eccentric washer doesn't have enough travel, it could be turned up-side-down or front-to-back.

Tighten the bolts after a good position of the plate is found. Re-inspect the position of the lift plate after some usage to make sure it instantly separates from the floor during operation.

### 2. Operation

Pull the knob to the right of the lift plate and fold it out with your hand. Do not release it until it has touched the floor. In precipitated position, the knob will automatically spring back and work as a stop for accidentally closing the plate in upward position. Closing the plate requires pulling the knob at the same time.

Place the wheel on the lift plate and activate the lift by turning the knob on the front panel to the left. The lift is weight sensitive, this means it will lift heavier wheels that are standing more stable on the plate faster (approximately 2-3 seconds). Smaller and lighter wheels will be lifted slower, in approximately 4 seconds. If faster lifting time for smaller wheels is desired, the wheel can be pushed against the lift plate by the operator during the start of the lift cycle.

The lift plate can be left in its upper position during washing, and the wheel could then be lowered back on the ground using the lift.

**PLEASE NOTE: When lift plate is folded out and ready to use for lifting, wheels should not be taken out of the machine by bouncing them on the lift plate. Heavy wheels will deform the lift plate.**

## 16. TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| Producer: | HEDSON TECHNOLOGIES AB<br>Hammarvägen 4<br>S-232 37 ARLÖV<br>SWEDEN | |
| Machine model: | **SILVERSTONE 12/ MONZA 10 400Volt** | **SILVERSTONE 12/ MONZA 10 230Volt** |
| Electrical connection: | 400V 3~ 16A | 230V 3~ 32A |
| Pump motor: | 5,5 kW | 5,5 kW |
| Rotation motor: | 0,18 kW | 0,18 kW |
| Operating current: | 13A | 23 A |
| Fuses needed : | 16A B-fuse [1] or higher | 63A [1] |
| Compressed air connection: | Min 8 bar (120psi)<br>max 12 bar (174psi) | Min 8 bar (120psi)<br>max 12 bar (174psi) |
| Water volume: | 310 l (82 US-gallon) | 310 l (82 US-gallon) |
| Height of unit: | 1500 mm (59") | 1500 mm (59") |
| Width of unit, body only: | 1090 mm (43") | 1090 mm (43") |
| Width of unit with QuickLift: | 1170 mm (46")<br>i.e. actual space needed! | 1170 mm (46")<br>i.e. actual space needed! |
| Depth of unit: | 1250 mm (49") | 1250 mm (49") |
| Weight: | SILVERSTONE<br>240 kg (530 lbs)<br>without water<br>or ShotMedium<br><br>MONZA<br>230 kg (510 lbs)<br>without water<br>or ShotMedium | SILVERSTONE<br>240 kg (530 lbs)<br>without water<br>or ShotMedium<br><br>MONZA<br>230 kg (510 lbs)<br>without water<br>or ShotMedium |
| Weight QuickLift: | 26 kg (60 lbs) | 26 kg (60 lbs) |
| Maximum wheel weight: | 60 kg | 60 kg |
| Maximum wheel size: | 860 x 360 mm | 860 x 360 mm |
| Minimum wheel size: | 540 x 145 mm | 540 x 145 mm |
| Sound pressure level: | 78 dB(A)<br>measured at<br>a distance of<br>1 meter | 78 dB(A)<br>measured at<br>a distance of<br>1 meter |
| Sound power level: | 94 dB(A) | 94 dB(A) |

[1] Assumes that no other electrical equipment is connected to this fuse.

## 17. TROUBLE SHOOTING GUIDE

BAD CLEANING RESULT

First check if:
- the water level is correct (see chapter 12)
- there is foam in the water (see chapter 12)
- the water is regularly changed (see chapter 11)
- the amount of ShotMedium is correct (see chapter 11)
- original ShotMedium is being used (see chapter 11)
- foreign detergents has been used (see chapter 4)

Then check if:
- the flush pipes (see pictures 5 and 6) are blocked
- the hoses connecting the pump with the flush pipes have worked themselves loose from either the pump or the flush pipes
- FOR SILVERSTONE 12: the dynamic flush pipe (see picture 6) is moving (if not, contact your dealer)

If all the above items are correct, then contact your dealer for examination of the internals in the pump. This could be the case as the machine approaches 20,000 wash cycles.

FLUSH PIPES ARE BLOCKED
A flush pipe (see pictures 5 and 6) may be blocked for the following reasons:
- A valve cap or other foreign object has got trapped in the nozzle of the flush pipe
- The machine has been operating with too low water level
- There is too much ShotMedium in the machine
- Non approved plastic beads has been used
- There is foam in the water because a non-approved detergent has been used
- There is foam in the water because it is very dirty

To check if a flush pipe is blocked, put a finger or a piece of soft hose into the nozzle (see picture 18).
In case a pipe is blocked, dismantle the shovel (see picture 18).

**PLEASE NOTE: Left and right shovels are different from each other, see picture 16. Do not mix them! A mix up could lead to damages on wheels!**
Remove the two M6 nuts, remove the rubber nozzle and clear the blocked pipe by means of compressed air. If needed, extend your air gun with the enclosed air hose and work it all the way down towards the pump.
**Caution: Please read chapter 3, Safety Information before removing the MotorCompartmentDoor.**
Then start a short wash cycle to clean out the pipes and finally fit the flush nozzle and shovel back into place.

If a valve cap or some other object blocks the pipes repeatedly, this must be removed from the ShotMedium.
Again, it's strongly recommend that **the valve cap is removed from the wheel before washing** as it can cause operational disturbances if it falls off during the wash cycle (see chapter 7).

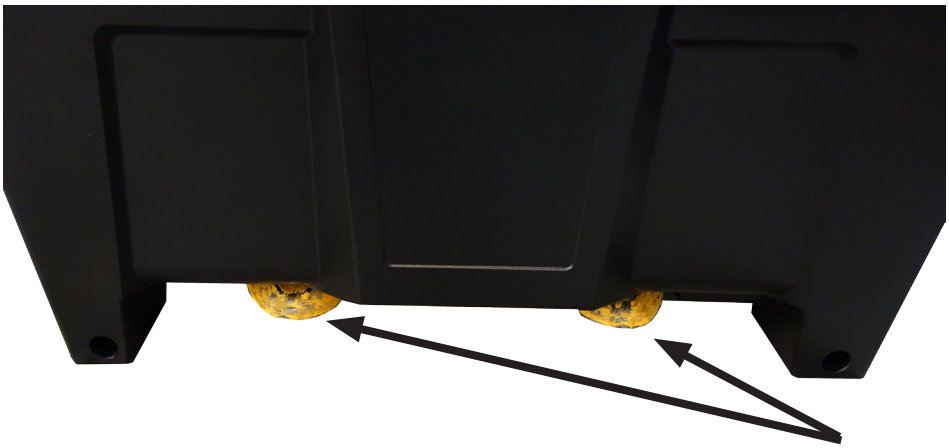
## DISPLAY MESSAGES

| Error code | Text on display | Action |
|---|---|---|
| A002 | Mains phase missing | Check supply cable, wall outlet and fuses. |
| A003 | Mains phase order | Switch two phases in supply plug. |
| A004 | Pump motor overcurrent | Check that the pump wheel isn't stuck. Contact your Sales Rep. |
| A005 | Rotation motor overcurrent | Check that the drive roll rotates smoothly. Contact your Sales Rep. |
| A007 | Mixer motor overcurrent | Check that the mixer axle runs smoothly. |
| A011 | Board over temperature | Check ventilation, temperature and dust around electric box. Let the machine cool down and try again. |
| A015 | Door is open | Close the door. |
| A017 | Arm stall | Check that dynamic arm runs smoothly. Contact your Sales Rep. |
| A019 | Fuse MF3 overload | Check door sensor and cable. |
| A020 | Fuse MF4 overload | Check air blow solenoid valve and cable. |
| A023 | Pump motor phase missing | Check that cable to pump motor is not damaged. |
| A024 | Rotation motor phase missing | Check that cable to rotation motor is not damaged. |
| A025 | Mixer motor phase missing | Check that cable to mixer motor is not damaged. |
| A026 | Pump motor off current failure | Call your Sales Rep. |
| A027 | Misc sensor off current failure | Call your Sales Rep. |
| B028 | Heater undercurrent | Check that cable to heater is not damaged. |
| A029 | Heater overcurrent | Check that cable to heater is not damaged. |
| A030 | Water temperature sensor failure | Check that tempsensor cable to heater is not damaged. |
| A031 | Water over temperature | Check that cable to heater is not damaged. |
| A040 | Arm not in start position | Check that dynamic arm is not stuck then run self test. |

## 18. Pictures

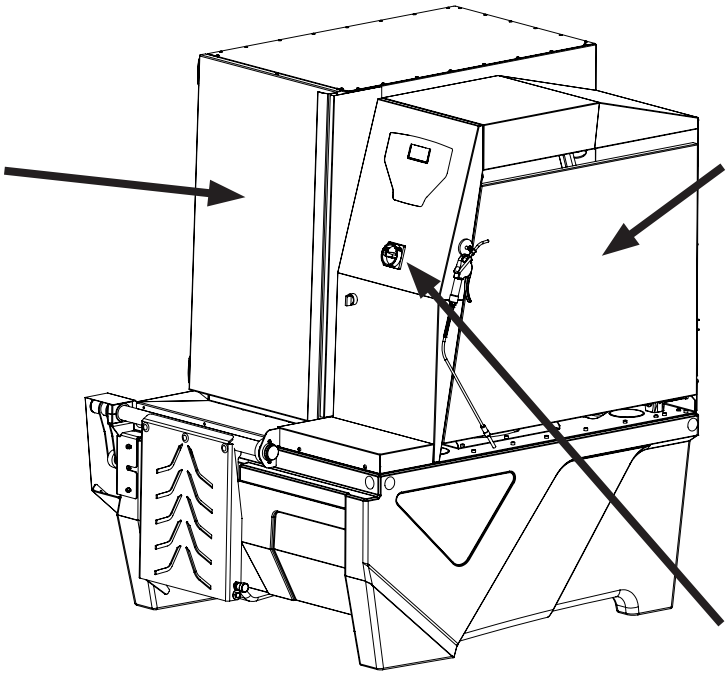
1


2



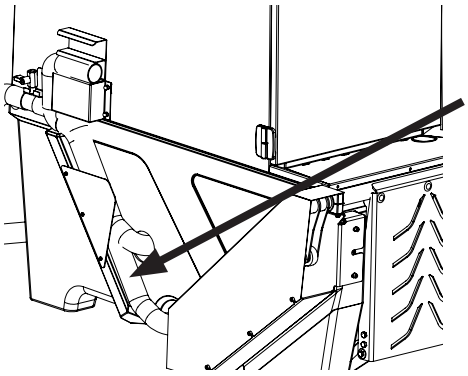
## 3

GB Door
DE Tür
FR Porte
SE Dörr
IT Portello
ES Puerta
NL Deur
RU Дверь



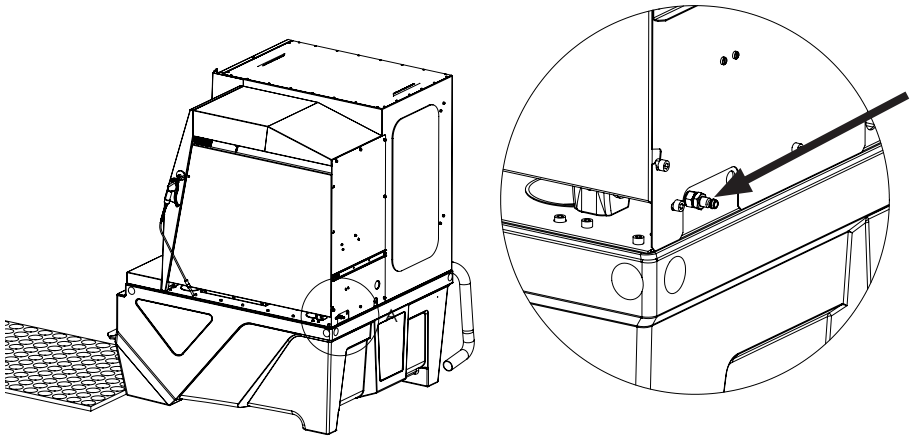
GB Motor compartment cover attached with 1 bolts in front and 3 bolts in back.
DE Motorraumabdeckung, mit 2 Schrauben in den oberen Ecken befestigt.
FR Capot du compartiment moteur, fixé avec 2 boulons dans les coins en haut.
SE Dörr till motorutrymmet, fästs med två bultar i de övre hörnen
IT Portello del vano motori, fissato con 2 bulloni agli angoli superiori.
ES Cubierta del compartimento del motor, adherida con 2 pernos en las esquinas superiores.
NL Motorbehuizing afdekplaat bovenaan gemonteerd met 2 bouten.
RU Крышка отсека двигателя, прикрепленная 2 болтами в верхних углах.

GB Main switch
DE Hauptschalter
FR Interrupteur principal
SE Huvudströmbrytare
IT Interruttore principale
ES Interruptor principal
NL Hoofdschakelaar
RU Главный переключатель



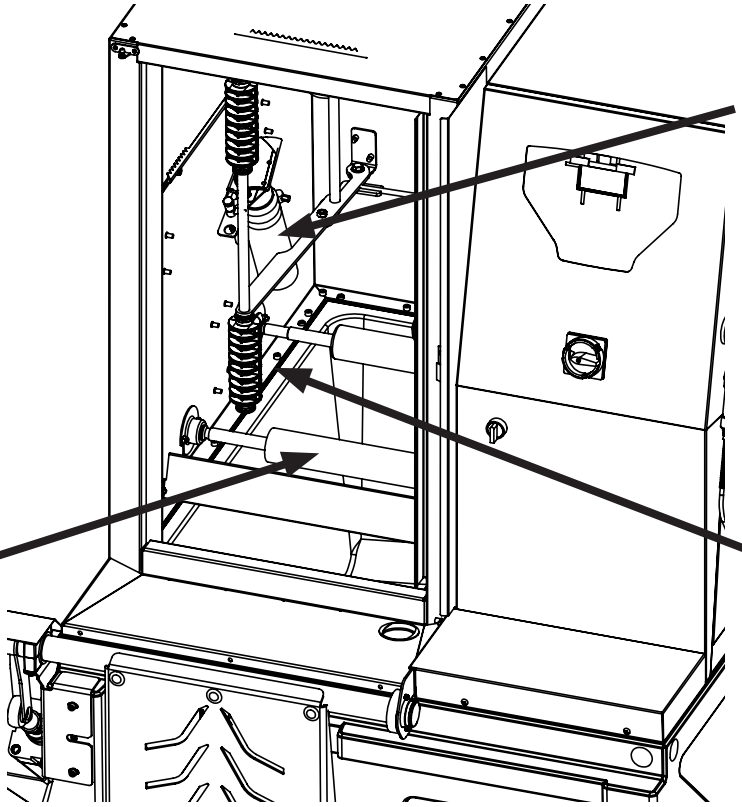
GB Drain hose
DE Abflußschlauch
FR Tuyau de vidange
SE Tömningsslang
IT Tubo di scarico
ES Manguera de desagüe
NL Afvoer slang
RU Сливной шланг

## 4



GB Connector for compressed air
DE Druckluftanschluss
FR Connecteur pour air comprimé
SE Tryckluftanslutning
IT Connettore per l'aria compressa
ES Conector para el aire comprimido
NL Luchtdruk aansluiting
RU Соединитель сжатого воздуха

## 5



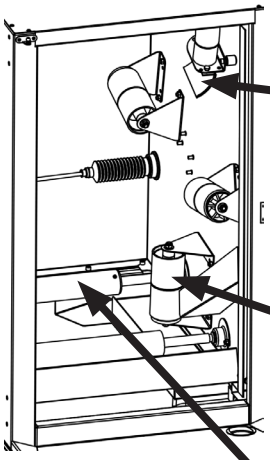
GB Support shaft
DE Stützwelle
FR Arbre du support
SE Bärrulle
IT Albero di supporto
ES Eje de soporte
NL Geleiderrol as
RU Вал поддержки

GB Left fixed flush
DE Festes Spülrohr links
FR Tuyau de rinçage fixe de gauche
SE Fast spolrör till vänster
IT Irroratore fisso sinistro
ES Tubo de vaciado fijado a la izquierda
NL Vaste linker spoelpijp
RU Закрепленная слева промывная труба

GB Silverstone 12 left side flexible side support.
Monza 10 left side fixed side support.
DE Flexible Seitenhalterung links
FR Support latéral flexible du côté gauche
SE Rörligt sidostöd, vänster
IT Supporto lato flessibile sinistro
ES Soporte flexible del lateral en el lado izquierdo
NL Flexibele linker geleiderrol
RU Эластичная поддержка левой стороны

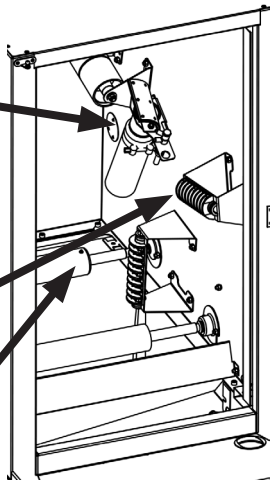
## 6

**Silverstone 12**



GB Right dynamic flush pipe
DE Bewegliches Spülrohr rechts
FR Tuyau de rinçage dynamique de droite
SE Fast spolrör, höger
IT Irroratore dinamico destro
ES Tubo de vaciado dinámico derecho
NL Rechter spoelbuis
RU Правая динамическая промывная труба

**Monza 10**



GB Right fixed flush pipe
DE Bewegliches Spülrohr rechts
FR Tuyau de rinçage dynamique de droite
SE Fast spolrör, höger
IT Irroratore dinamico destro
ES Tubo de vaciado dinámico derecho
NL Rechter spoelbuis
RU Правая динамическая промывная труба

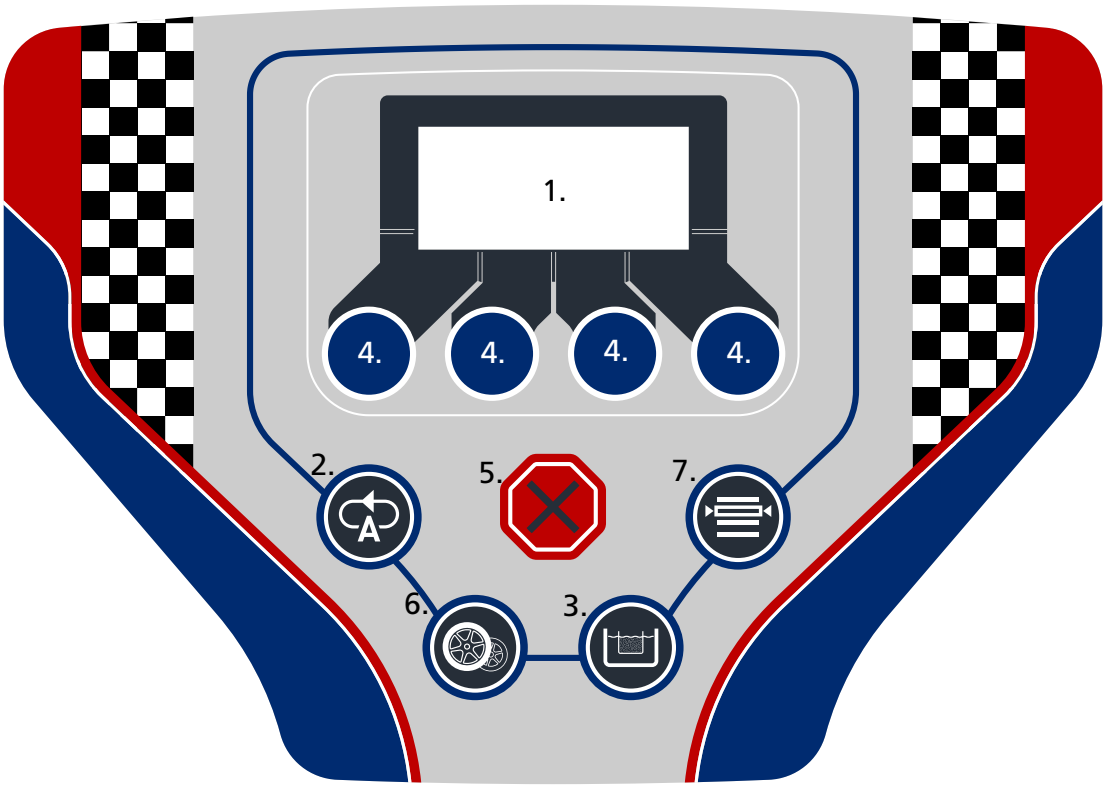
GB Right side fixed supports
DE Feste Halterungen rechts
FR Supports latéraux fixes de droite
SE Fasta sidostöd, höger
IT Supporti laterali fissi a destra
ES Soportes laterales fijados en el lado derecho
NL Vaste rechter geleiderrol
RU Зафиксированная справа боковая поддержка

GB Drive shaft
DE Antriebswelle
FR Arbre d'entraînement
SE Drivrulle
IT Albero di trasmissione
ES Eje de conducción
NL Aandrijf as
RU Приводной вал

7

**MONZA 10**


**SILVERSTONE 12**



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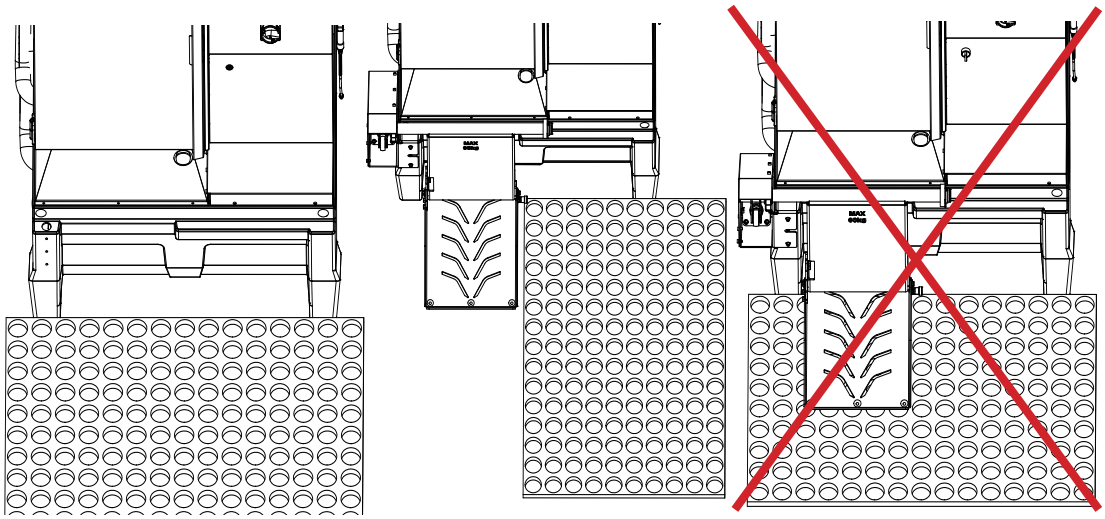
10

11

## 12



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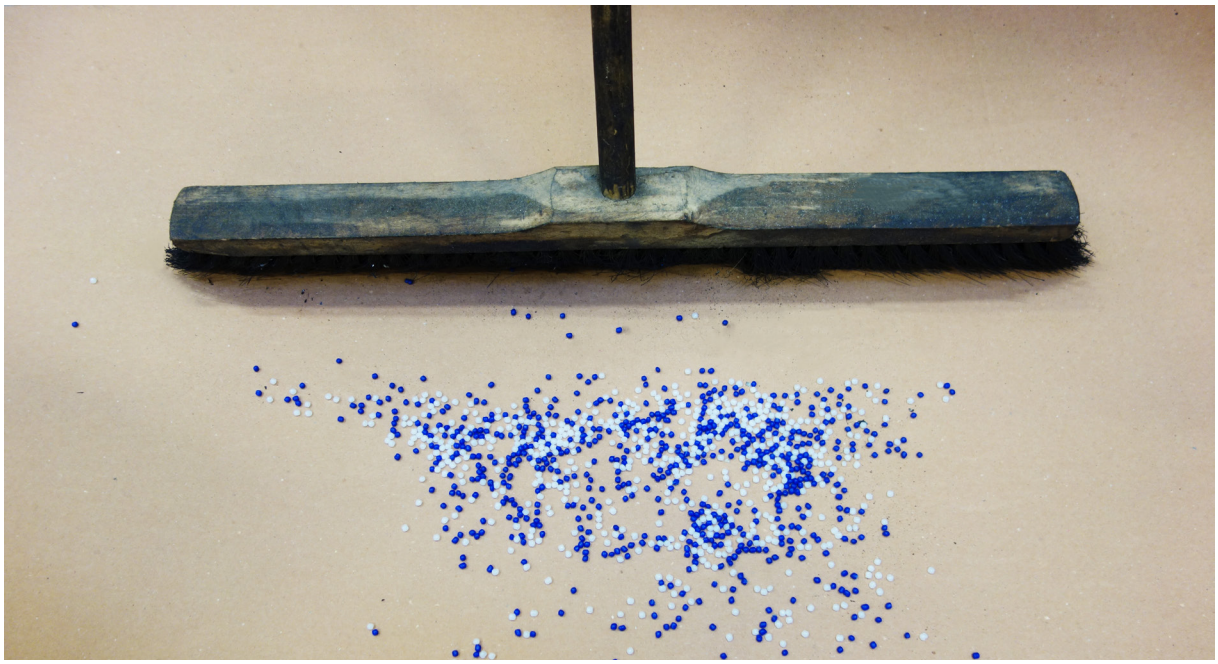
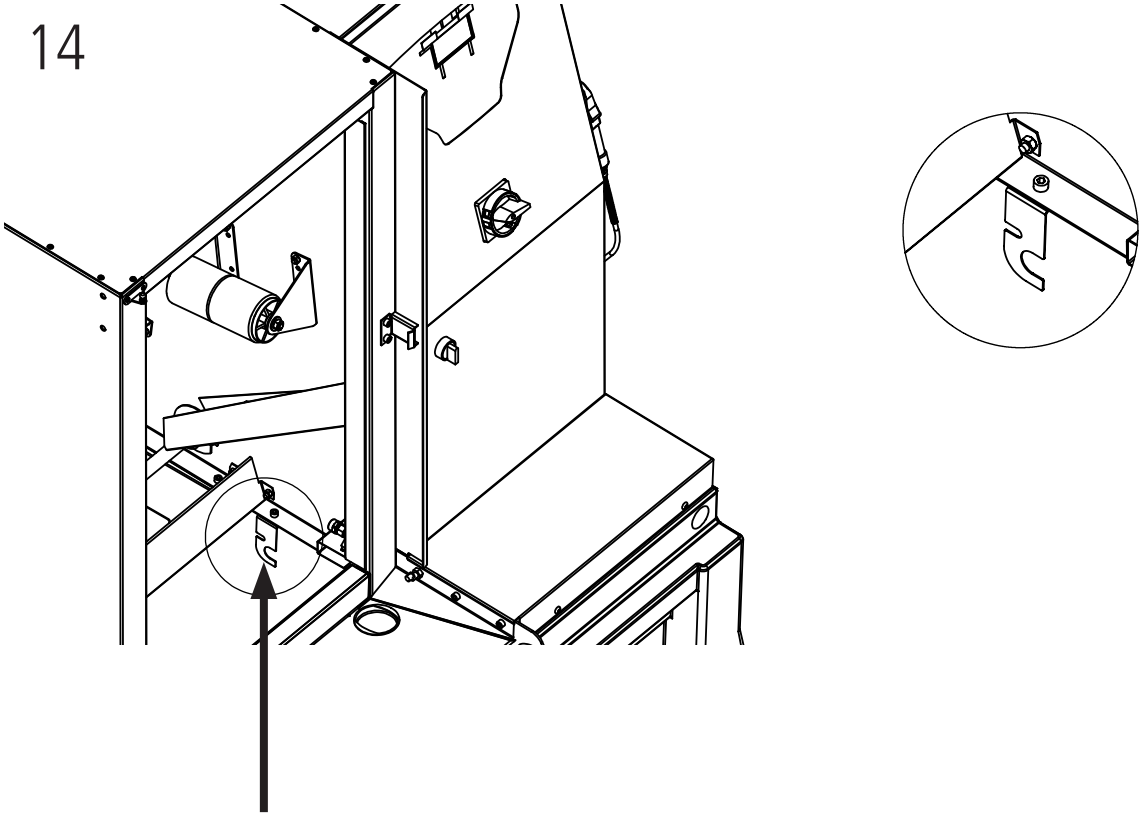


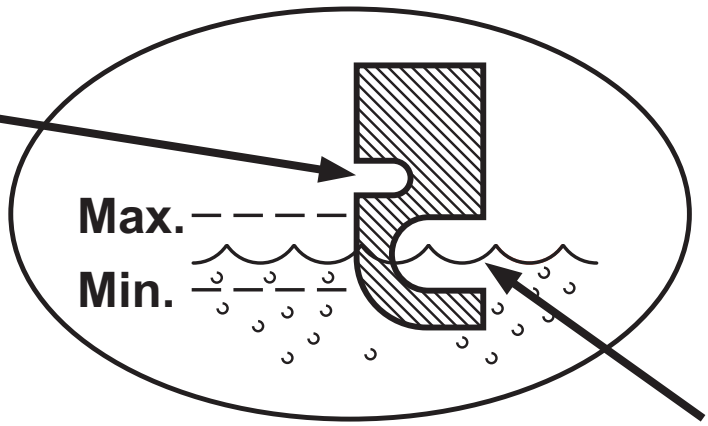
14



GB Level indicator
DE Pegelanzeige
FR Indicateur de niveau
SE Nivåindikator
IT Indicatore di livello
ES Indicador de nivel
NL Niveau indicatie
RU Индикатор уровня

15

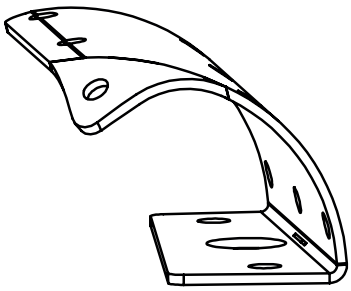
GB Upper notch
DE Obere Kerbe
FR Encoche sup
SE Övre hacket
IT Tacca superiore
ES Muesca superior
NL Bovenste peil
RU Верхний паз



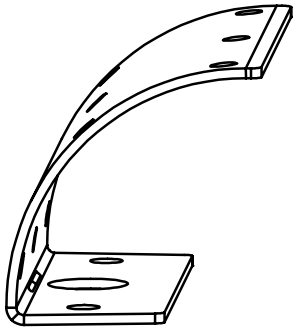

GB Lower notch
DE Untere Kerbe
FR Encoche sup
SE Nedre hacket
IT Tacca inferiore
ES Muesca inferior
NL Onderste peil
RU Нижний паз

## 16

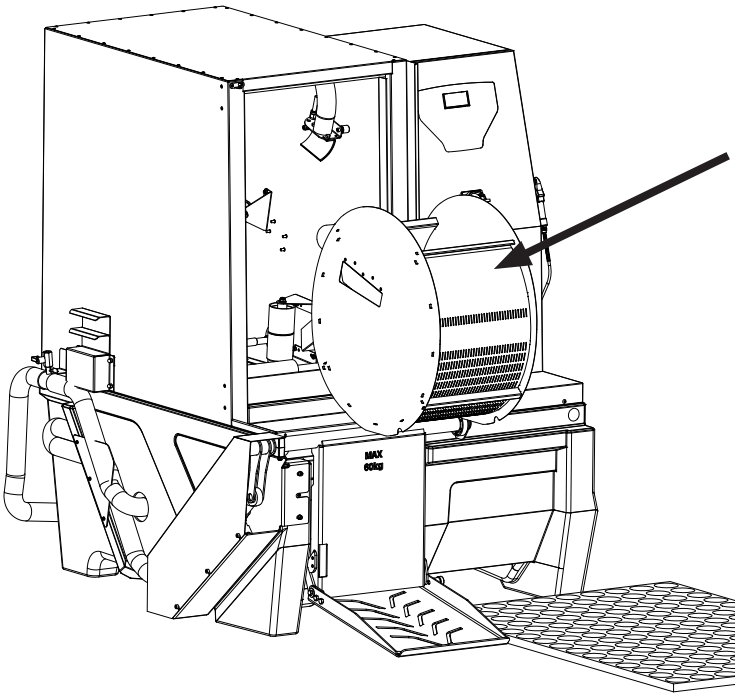
GB Left Shovel
DE Linke Schaufel
FR Guide de gauche
SE Vänster ledskovel
IT Spatola sinistra
ES Pala izquierda
NL Linker schep
RU Левая лопатка



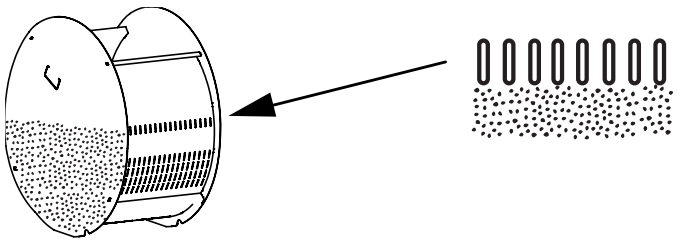
GB Right Shovel
DE Rechte Schaufel
FR Guide de droite
SE Höger ledskovel
IT Spatola destra
ES Pala derecha
NL Rechter schep
RU Правая лопатка



## 17

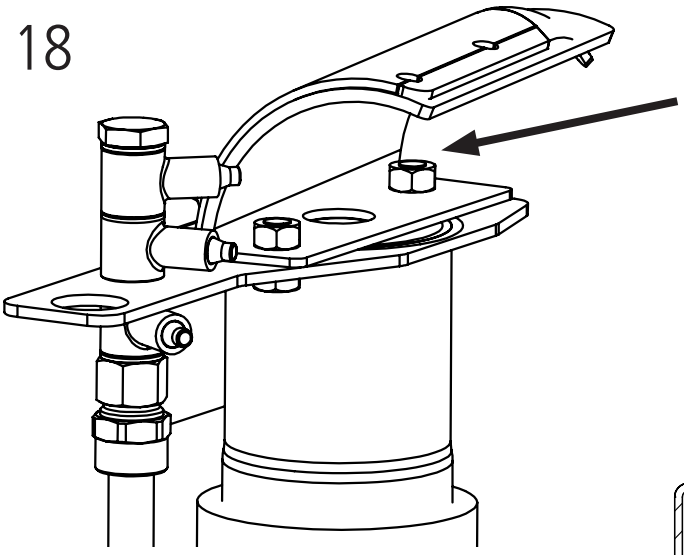



GB ShotMedium basket
**PLEASE NOTE:** Opening to the left
DE ShotMedium-Auffangkorb
**HINWEIS**: die Seite öffnet sich nach links!
FR ShotMediumBasket
**REMARQUE** : ouverture latérale vers la gauche !
SE Granulatkorg
**Observera**! Öppning till vänster
IT Cestello dei granuli
**NOTA** lato di apertura a sinistra!
ES Cesta de ShotMedium
**¡FÍJESE** en que el lateral se abre hacia la izquierda!
NL Granulaat bak
**Opmerking** opening aan de linker kant !
RU ShotMediumBasket
ИМЕЙТЕ В ВИДУ - сторона открывается влево!

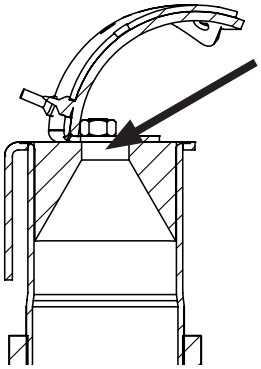


GB Proper ShotMedium level
DE Richtiger ShotMedium-Pegel
FR Niveau ShotMedium correct
SE Korrekt granulatnivå
IT Livello corretto dei granuli
ES Nivel adecuado de ShotMedium
NL Schoon granulaat niveau
RU Корректный уровень ShotMedium

## 18



GB Shovel
DE Schaufel
FR Guide
SE Ledskovel
IT Spatola
ES Palanca
NL Spoelpijp met schep
RU Лопатка

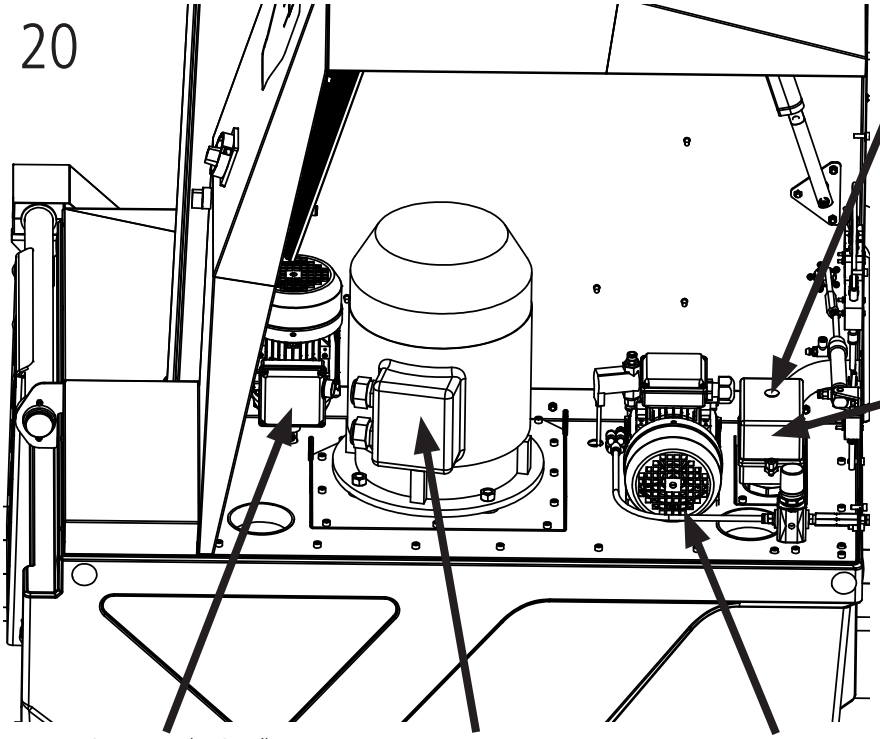


GB Nozzle
DE Düse
FR Buse
SE Munstycke
IT Ugello
ES Boquilla
NL Sproeikop
RU Сопло

## 19


GB Hose for rinsing of flush pipes
DE Schlauch zum Ausspülen der Spülrohre
FR Flexible pour rinçage des tuyaux de vidange
SE Slang för att rensa spolrören
IT Tubo per sciacquare gli irroratori
ES Manguera para limpiar los tubos de vaciado
NL Slangetje voor het doorsteken van de spoelpijp
RU Шланг для промывки промывных труб

## 20



GB Reset of safety thermostat
DE Zurücksetzen des Sicherheitsthermostats
FR Réinitialisation du thermostat de sécurité
SE Återställning av termostat
IT Azzeramento del termostato di sicurezza
ES Reajuste del termostato de seguridad
NL Resetten van de veiligheidsthermostaat
RU Сброс термостата безопасности

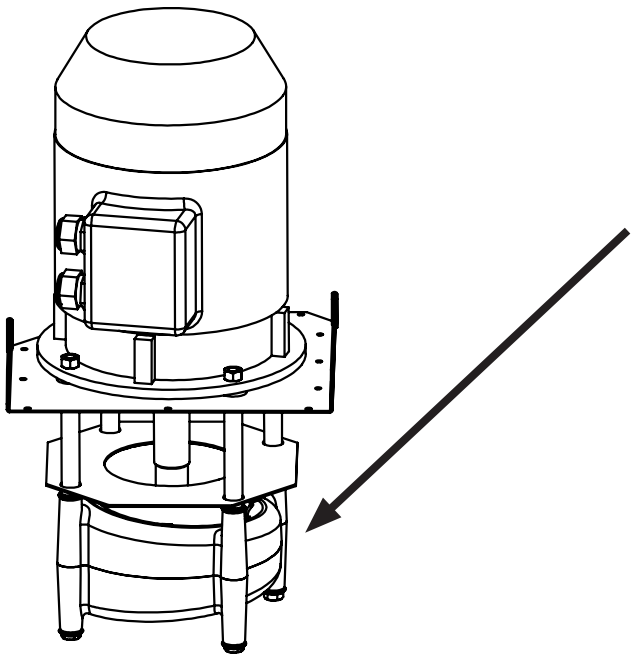
GB Immersion heater
DE Tauchheizgerät
FR Chauffage par immersion
SE Doppvärmare
IT Riscaldatore ad immersione
ES Calefactor de inmersión
NL Verwarmingselement regelaar
RU Погружной нагреватель

GB Mixer motor (optional)
DE Pumpenmotor
FR Motopompe
SE Pumpmotor
IT Motore della pompa
ES Bomba del motor
NL Pompmotor
RU Двигатель насоса

GB Pump motor
DE Pumpenmotor
FR Motopompe
SE Pumpmotor
IT Motore della pompa
ES Bomba del motor
NL Pompmotor
RU Двигатель насоса

GB Rotation motor
DE Antriebsmotor
FR Moteur de rotation
SE Drivmotor
IT Motore di rotazione
ES Motor de rotación
NL Draaimotor
RU Двигатель вращения

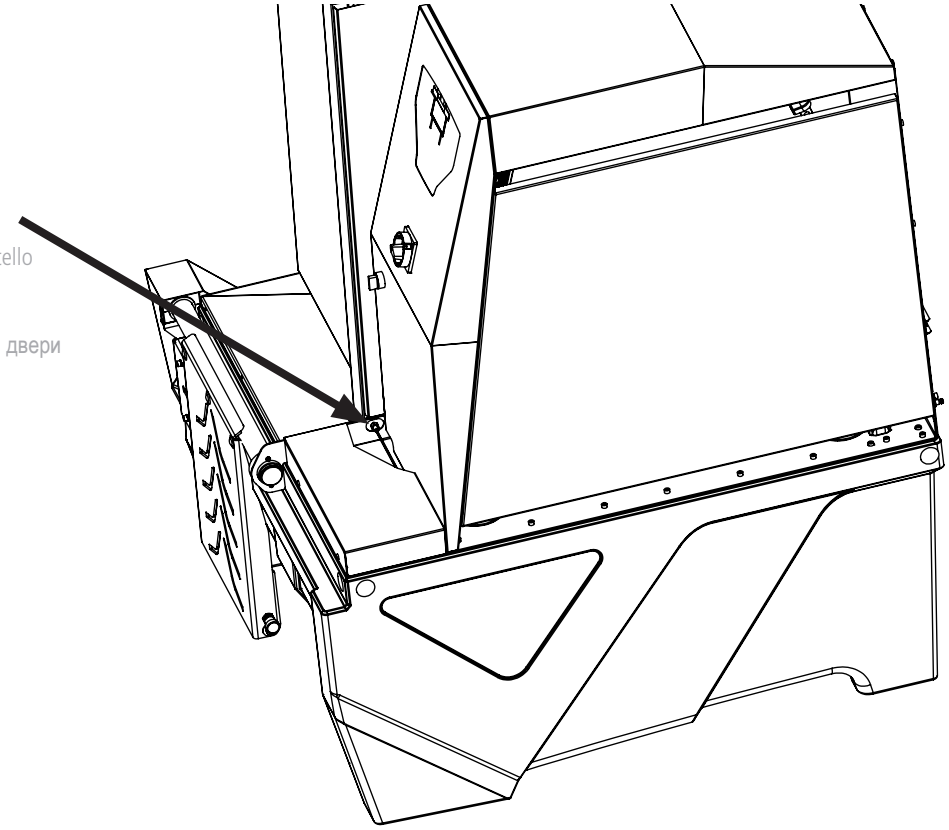
## 21



GB Pump
DE Pumpe
FR Pompe
SE Pump
IT Pompa
ES Bomba
NL Pomp
RU Насос

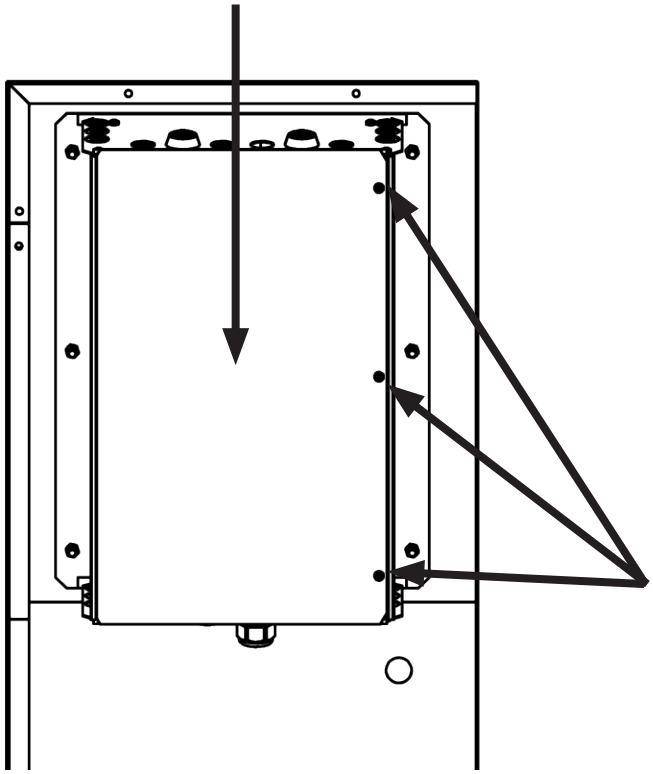
## 22

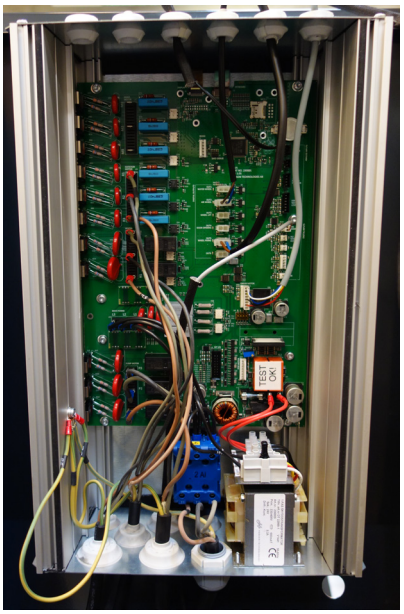
GB Safety switch for door
DE Sicherheitsschalter für Tûr
FR Interrupteur de sécurité
SE Säkerhetsbrytare för dörren
IT Interruttore di sicurezza per il portello
ES Interruptor de seguridad
NL Veiligheidsschakelaar deur
RU Выключатель безопасности для двери



## 23

GB Control cabinet
DE Steuerschrank
FR Armoire de commande
SE Styrskåp
IT Cabina di controllo
ES Armario de control
NL Regelunit
RU Шкаф управления






GB Lock to open control cabinet
DE Verschlüsse zum Öffnen des Steuerschranks
FR Verrous pour ouvrir l'armoire de commande
SE Låsning för att öppna kontrollskåpet
IT Serraggi per aprire il quadro elettrico
ES Cerrojos para abrir el armario de control
NL Vergrendeling om de regelunit te openen.
RU Блокировка для открытия шкафа управления

# Drester Monza 10 & Silverstone 12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230312 rev.1 2015-01-22