

**LOCTITE®**

# 2551224 3D Printing EQ Washer DW11

Operating Manual



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# 1 Please Observe the Following

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## 1.1 Emphasized Sections

### **Warning!**

Refers to safety regulations and requires safety measures that protect the operator or other persons from injury or danger to life.

### **Caution!**

Emphasizes what must be done or avoided so that the unit or other property is not damaged.

### **Notice:**

A notice gives recommendations for better handling of the unit during operation or adjustment as well as for service activities.

## 1.2 For Your Safety

 For safe and successful operation of the unit, read these instructions completely. If the instructions are not observed, the manufacturer can assume no responsibility.

 Do not expose the connecting cable to heat, oil, or sharp edges.

 Make sure the Unit stands stable and secure.

 Use only original equipment replacement parts.

 Always disconnect the power supply before servicing the unit.

 Observe general safety regulations for the handling of chemicals such as Loctite® adhesives and sealants. Observe the manufacturer's instructions as stated in the Safety Data Sheet.

 While under warranty, the unit may be repaired only by an authorized Loctite service representative.

## 1.3 Material

### **Warning!**

**Not for use with IPA. For use with Loctite Cleaner C, IDH# 2491820 only.**

## 1.4 Unpacking and Inspection

Carefully unpack the Loctite® 3D Printing EQ Washer DW11 and examine the items contained in the carton. Inspect the unit for any damage that might have occurred in transit. If such damage has occurred, notify the carrier immediately. Claims for damage must be made by the consignee to the carrier and should be reported to the manufacturer.

! CAUTION! Please refer to the picture. Handle and lift machine carefully.



## 1.5 Items supplied

- 1.5.1 3D Printing EQ Washer DW11
- 1.5.2 Equipment Manual
- 1.5.3 2 pcs of Power Cord, EU and US.
- 1.5.4 2 pcs of basket. (Mounted inside tank)
- 1.5.5 Manual Pump

## **1.6 Features**

- 1.6.1 Bidirectional agitation
- 1.6.2 Dual bath design
- 1.6.3 Adjustable cleaning cycle timer for each bath
- 1.6.4 Automatic z axis up/down
- 1.6.5 Touch screen user interface with color display
- 1.6.6 Loose part basket or build head mount
- 1.6.7 3 agitation speeds
- 1.6.8 Cleaner pot life timer
- 1.6.9 Large volume reservoir

## **1.7 Usage**

The Loctite® 3D Printing EQ Washer DW11 is a high-performance wash station specifically designed and engineered for washing 3D printed parts created using Loctite 3D Printing resins.

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## 2 Description

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The Loctite® 3D Printing EQ Washer DW11 is a high-performance wash station specifically designed and engineered for washing 3D printed parts created using Loctite 3D Printing resins.

Loctite 3D Printing EQ Washer DW11 is an automatic cleaning unit that users can place the Loctite PR10 printer build platform directly into the Wash Station, set the wash time, and initiate the automatic washing of the 3D printed parts. The Loctite® 3D Printing EQ Washer DW11 utilizes a rotating impeller to circulate the cleaner bidirectionally to achieve maximum cleaning. A universal wash basket is also provided for loose parts if a Loctite build head is not used.

Loctite 3D Printing EQ Washer DW11 is a 2-bath process used in conjunction with Loctite Cleaner C. The first bath contains the Loctite Cleaner and the second bath contains DI water for a final rinse. Each bath has an individual timer setting for optimizing cleaning and rinsing times. At the start of the cycle, the build head or basket is automatically lowered into the bath and cleaning begins. At the end of the cycle the build head or basket is automatically removed from the bath. The build platform or basket is manually moved to the second bath for automatic rinsing.

Washer DW11 also provides cleaner's pot life timer which can be set based on individual application parameters. The timer will remind users when it is time to change the cleaner bath.

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### 3 Technical Data

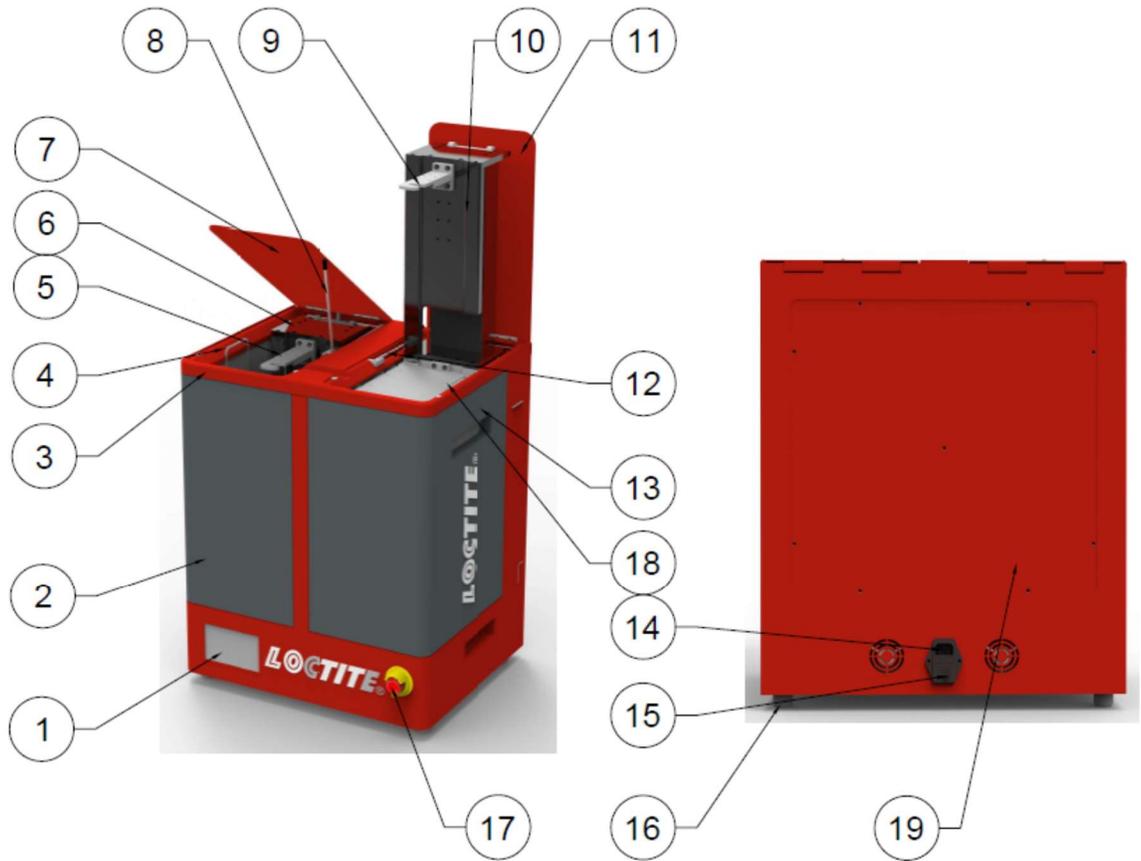
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Dimensions (L x H x W):	476 x 589 x 419 (mm)
Total weight: lbs. (Kg)	45 kg
Operating voltage:	100-240 VAC 50/60Hz
Power consumption:	300 Watts

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### 4 Overview

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- 1. UI Screen
- 2. Left Tank
- 3. Lid Holder
- 4. Catch Screen

5. Build Platform/Basket Bracket
6. Elevator
7. Left Lid
8. Bonnet Support Rod
9. Build Platform/Basket Bracket
10. Elevator
11. Right Lid
12. Bonnet Support Rod
13. Right Tank
14. Power Inlet
15. ON/OFF Switch
16. Leveling Foot
17. EMO Button
18. Catch Screen
19. Rear Panel

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## 4 Installation

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- ! Before using the equipment for the first time check it carefully for signs of external damage. If any shipping damage is found DO NOT USE THE EQUIPMENT – return it to your supplier immediately.

### 4.1 Environmental and Operating Conditions

- The equipment should be installed in a dry, well ventilated and dust-free place.
- To ensure proper ventilation, install the unit at a distance of at least 100 – 150 mm from a wall or neighboring object.

## 4.2 Electrical Connection

Plug the AC power cord into No. 14 Power Inlet, which located in rear side of machine.

## 4.3 Turn on Machine

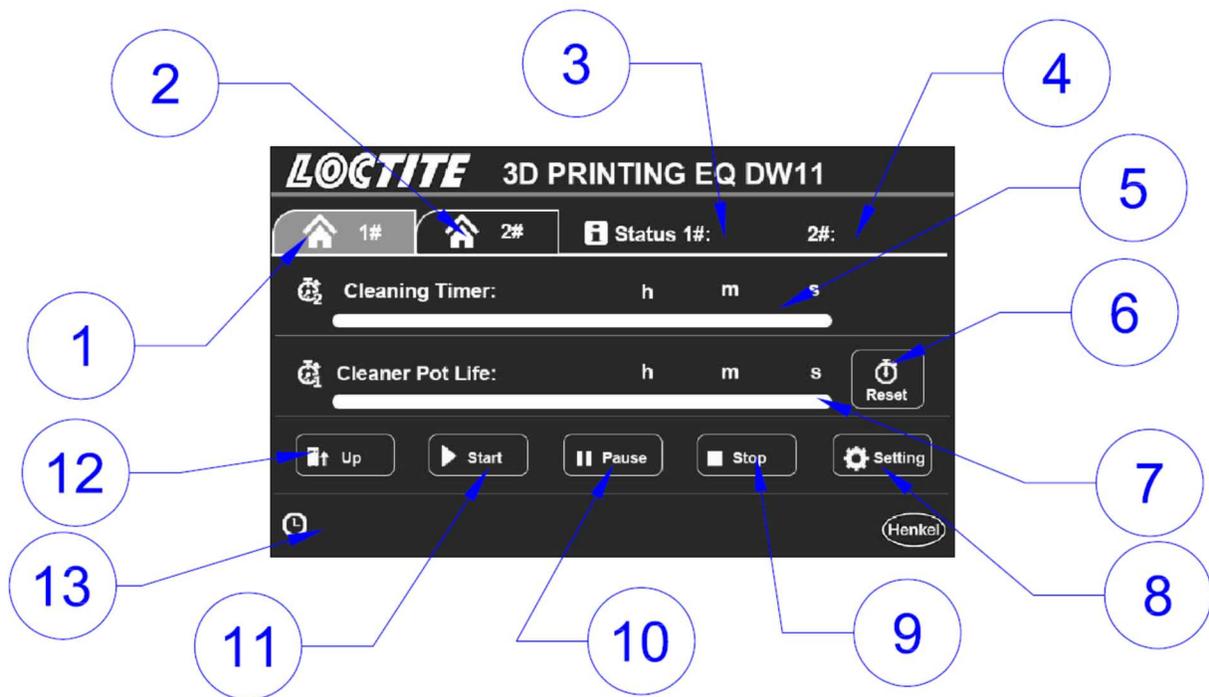
- Make sure emergency stop button (No. 17) is released.
- Press ON/OFF switch (No. 15) to power on

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# 5 Operation

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## 5.1 Main UI Instruction



1. Page Button #1—To enter control page of left tank
2. Page Button #2—To enter control page of right tank
3. Status Indicator #1—left tank's status.
4. Status Indicator #2—right tank's status.
5. Cleaning Timer Bar

6. Pot Life Reset Button
7. Pot Life Timer Bar
8. “Setting” Button—Enter Setting Page
9. “Stop” Button
10. “Pause” Button
11. “Start” Button
12. Lift Control Button

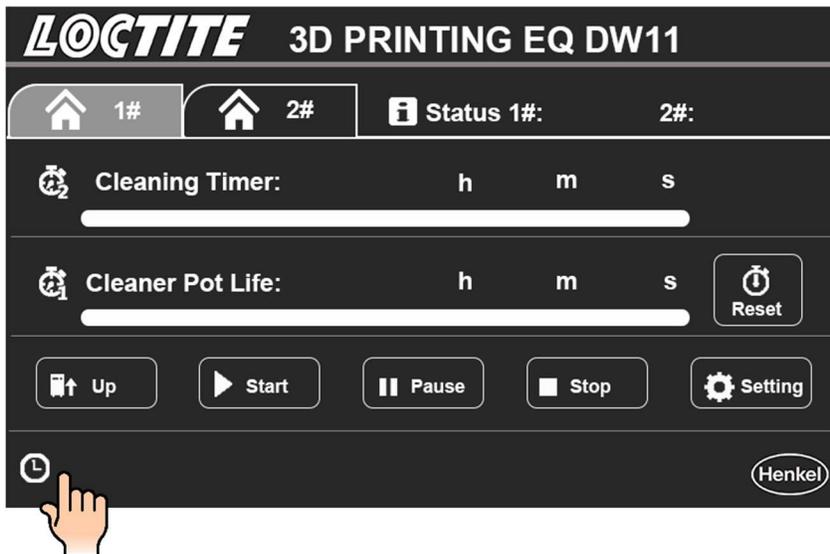
There are 2 position for elevator: Up (ready position) and down (working position).

When elevator is in down position, the button shows . Press button, elevator will go to up position.

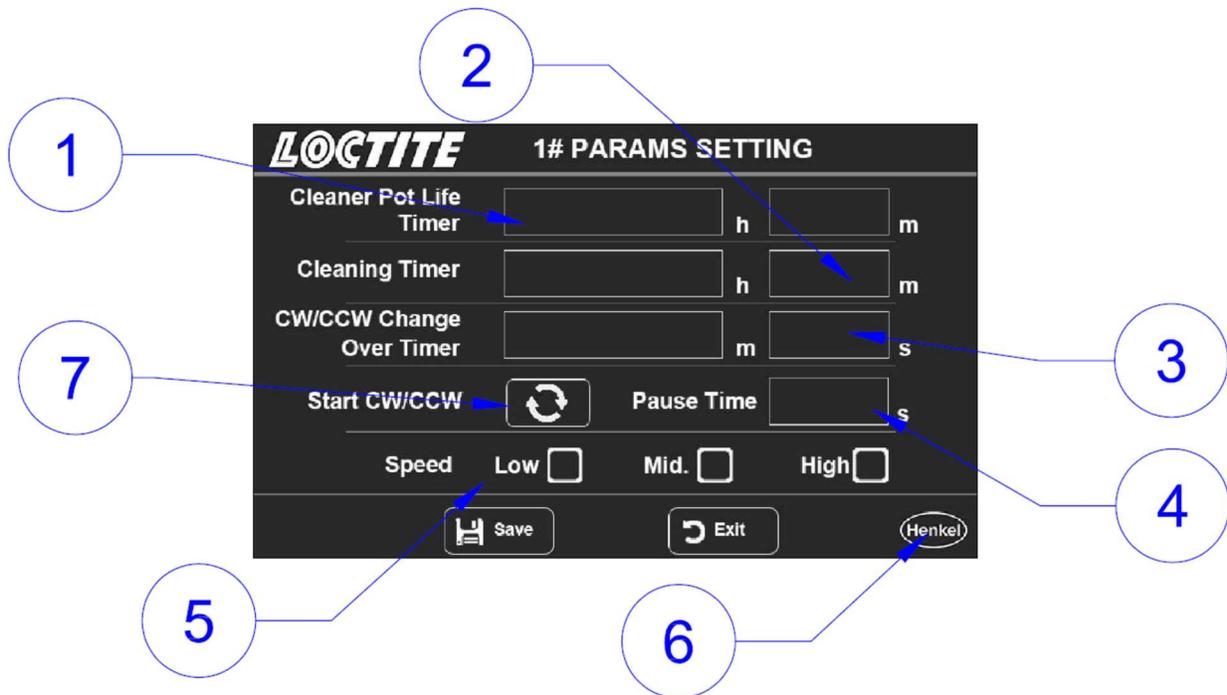
When elevator is in UP position, the button shows . Press button, elevator will go to down position.

### 13. Time & Date

Time and data are shown in this area. Press and hold for 3s, operator can edit time and date.



## 5.2 Setting Page



1. Cleaner Pot Lift Timer—Set cleaner’s pot life.
2. Cleaning Timer—Set timer for each cleaning cycle.
3. CW/CCW Change Over Timer—Set time for agitation direction changing.
4. Pause Time—Set pause time between CW/CCW changing. Default setting is 4s
5. Speed Selection—Define agitation speed.  
There are 3 speed levels:  
Low: 100 rpm  
Mid: 120 rpm  
High: 140 rpm.
6. Press the Henkel logo can enter setting 2 page.
7. Change over CW/CCW--For example, when set to CW, washer will work at CW direction when start.

## 5.3 Operation

### 5.3.1 Process

Press “START”:

- Step 1. Elevator will go down to working position
- Step 2. Impeller starts.

When cycle finishes:

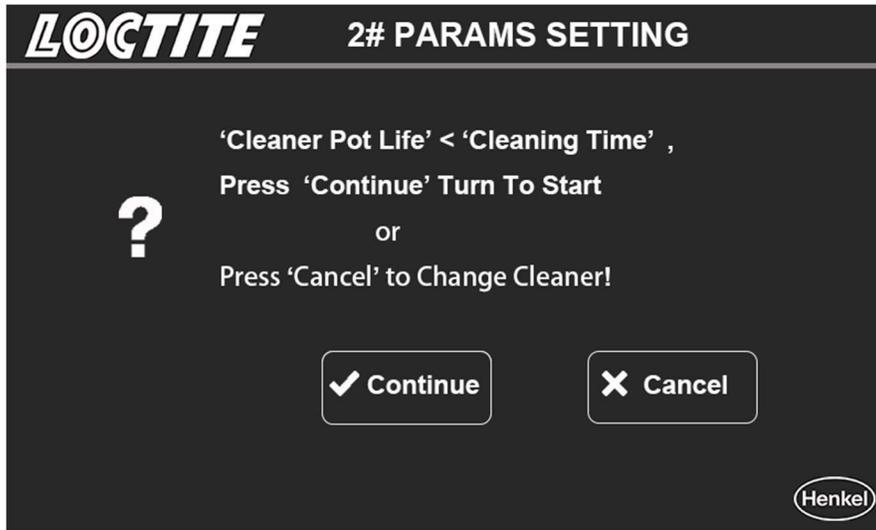
- Step 1. Impeller stops
- Step 2. Elevator goes to up position.

Press “STOP”:

- Step 1. Impeller stops
- Step 2. Elevator goes to up position.

### 5.3.2 To Run

- Step 1. If elevator is in working position, press  or “STOP” button to raise it to up position.
- Step 2. Mount build platform or basket on the bracket.
- Step 3. Set cleaning timer
- Step 4. Please be noted, if “Cleaning Timer” > “Cleaner Pot Life”, below message will be shown on screen. Press “Continue” to run, or “Cancel” to exit cleaning cycle, and change cleaner.



Step 5. Elevator goes to up position when cleaning finished.

### 5.3.3 Change Cleaner

When Cleaner Pot Timer reaches 0, please change cleaner.

After refilling cleaner, please click Pot Life Reset button  to reset timer.

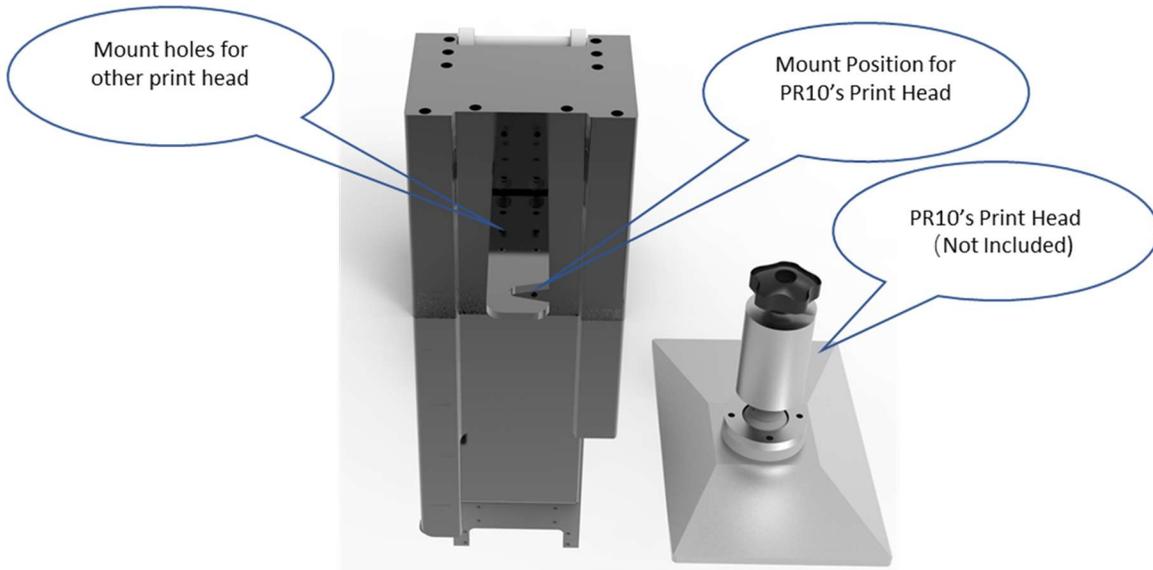
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## 6 Application Hints

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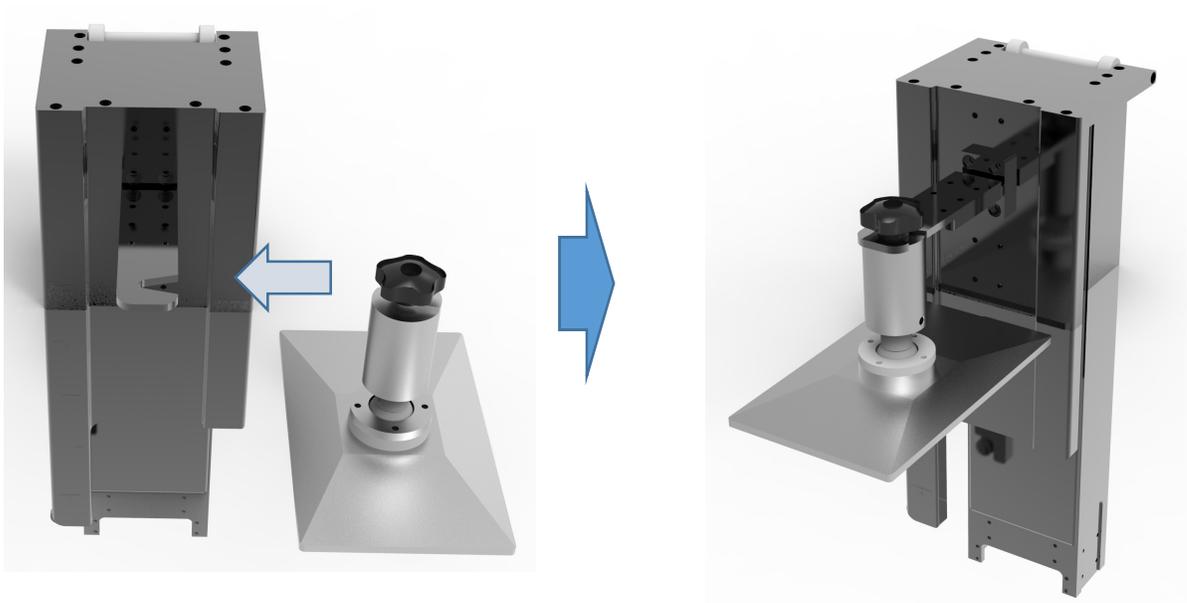
As with all adhesives and cleaners, performance depends on conditions of use. Suggestions or recommendations contained herein are for guidance only, since actual conditions of use are outside the supplier's control.

- ⚠ Before proceeding with any repair or maintenance operation disconnect the Loctite® 3D Printing EQ Washer from the main electricity supply.



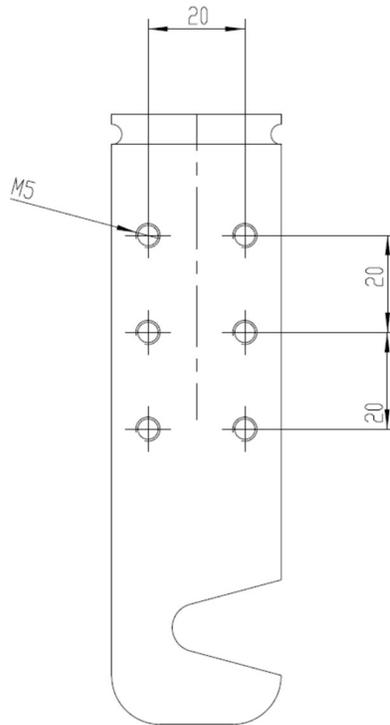
## 6.1 Mount PR10's Print Head

Refer to below picture, PR10's print head can be mounted on bracket directly.



## 6.2 Bracket Mounting

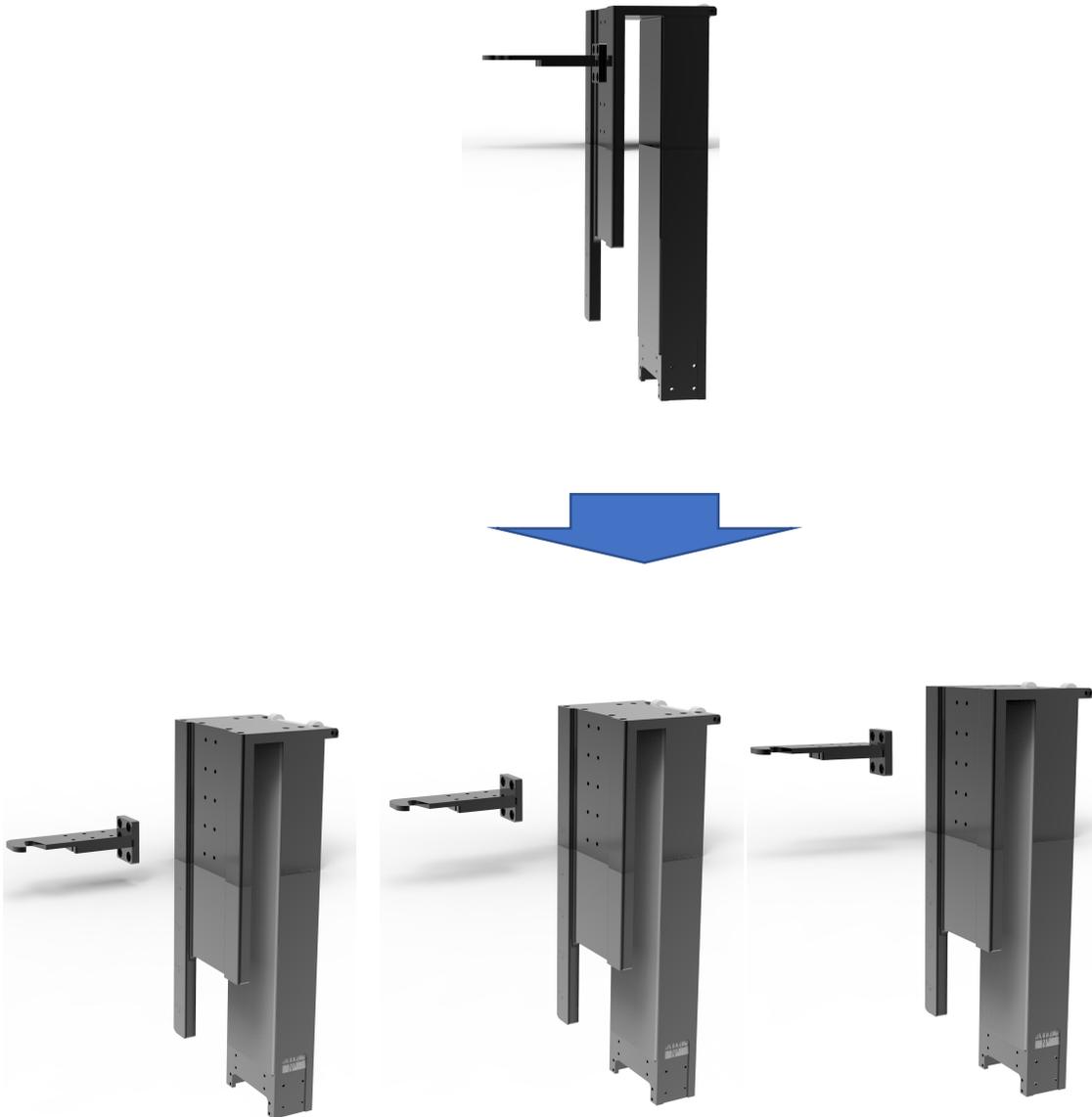
Unit in mm



### 6.3 Mounting Bracket

There are 4 screws to mount bracket.

There are 10 screw holes on elevator to mount bracket. Bracket can be mounted on 4 levels.



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## 7 Troubleshooting

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### 7.1 Lid Switch

#### 7.1.1 Locating the Lid Switch

Refer to the below picture. The lid switch is located below each lid.



#### 7.1.2 Indicator for Lid Switch

There is indicator for lid on UI screen.

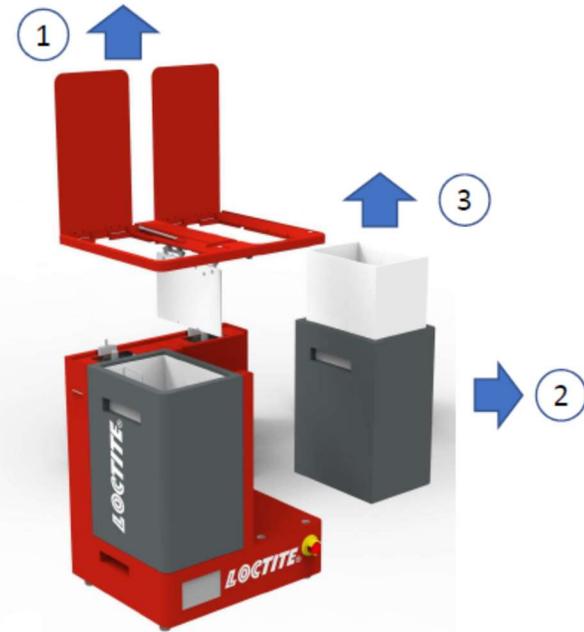
When Lid is Closed	When Lid Open/Switch error
	

## 7.2 Replace Tank

1. Open lids, refer to below picture, find the 2 screws and remove them.

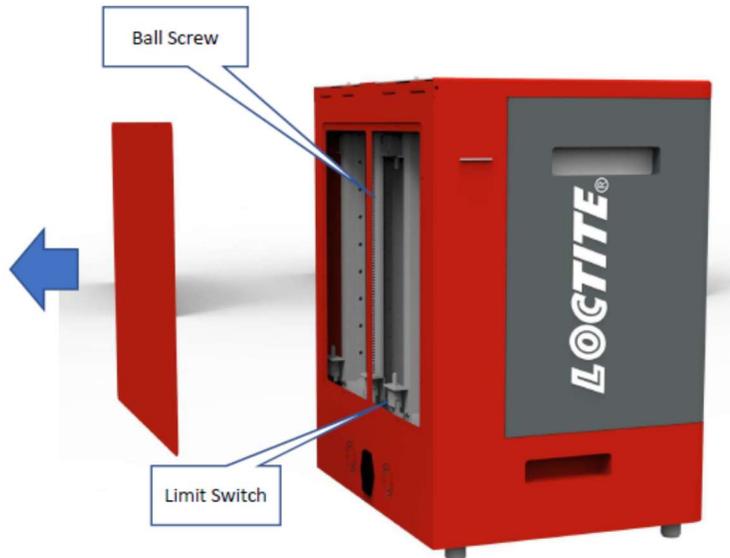


2. Refer to below picture, follow step 1,2,3, remove tank bath.



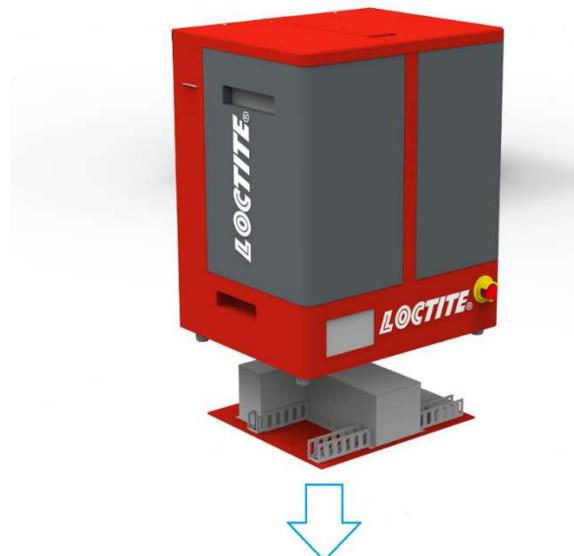
### 7.3 Ball Screw and Limit Switch

Refer to the below picture. Open rear panel



### 7.4 Electrical Panel

Electrical panel is located on the bottom of machine. Please refer to the below picture.



## 7.5 Basic Troubleshooting

Malfunction	Possible Cause	Corrective
No display appears on the screen	Main power cable is disconnected	Check that the main power cable is connected to an AC source.
	EMO button has been activated	Turn the EMO button clockwise until it pops out.
	Main switch is not turned on	Turn on the main switch, which is located on back panel.
	Fuse break	Check the fuse in power inlet.
Cannot start agitation	Lid is opened	Close lid.
	Lid switch is malfunction.	Check lid switch and replace it if defective. Contact Henkel service
“Lift Timeout”	Elevator cannot move up/down	Manually operate elevator to check if can run or not: 1. Yes, please refer next table. 2. No, please contact Henkel service.
	Limit Switch malfunction	Refer 7.3, find limit switch and check them. Replace them if necessary.

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## 8 Care and Maintenance

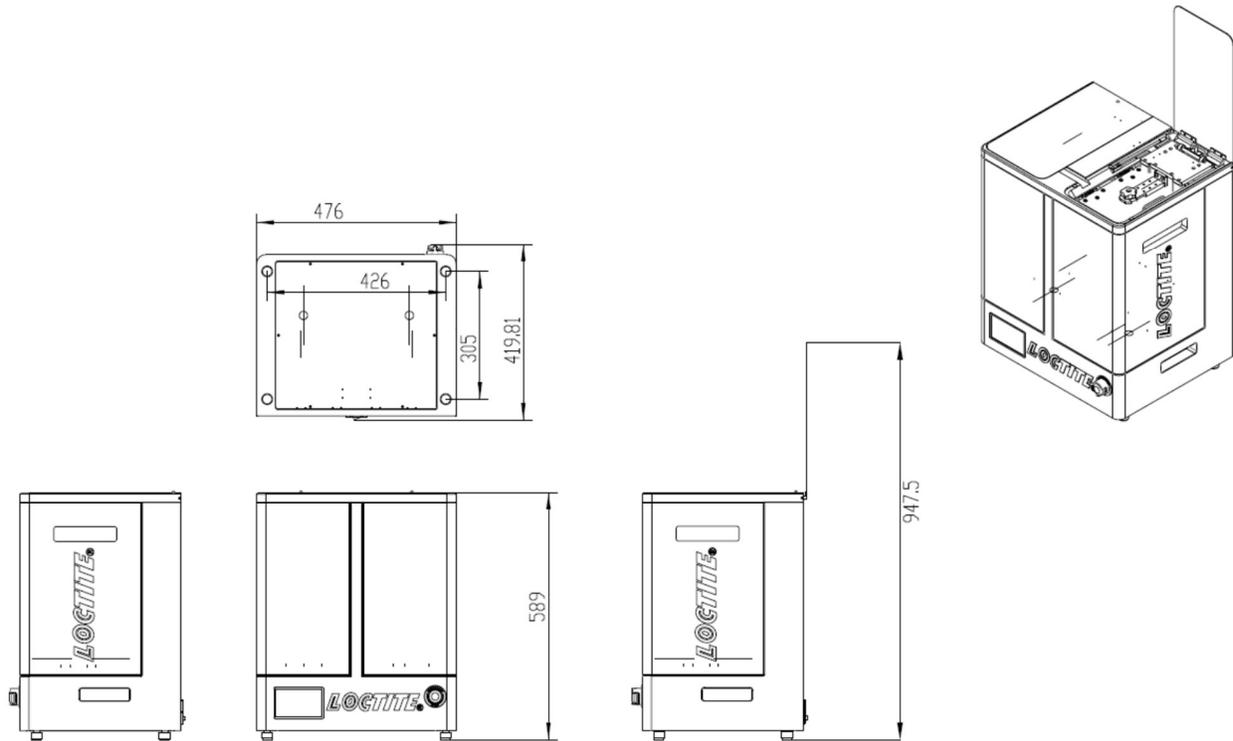
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### **Warning!**

Maintenance procedures should be performed by trained personnel only.

Task	Frequency	Instruction
Clean DW11's housing and lid	Daily	Remove tank. Remove spilled cleaner with a soft cloth. Remove any foreign objects from the washer's housing.
Drain Bath	Daily	Check cleaner level and empty if necessary.
Check Bath	Monthly	Check bath if there is any leakage or broken.
Check lid sensor	Monthly	See 7.1, find lid switch.
Lubricate Z Axis' Ball Screw	Quarterly	Refer 7.3, find ball screws. Lubricate them.

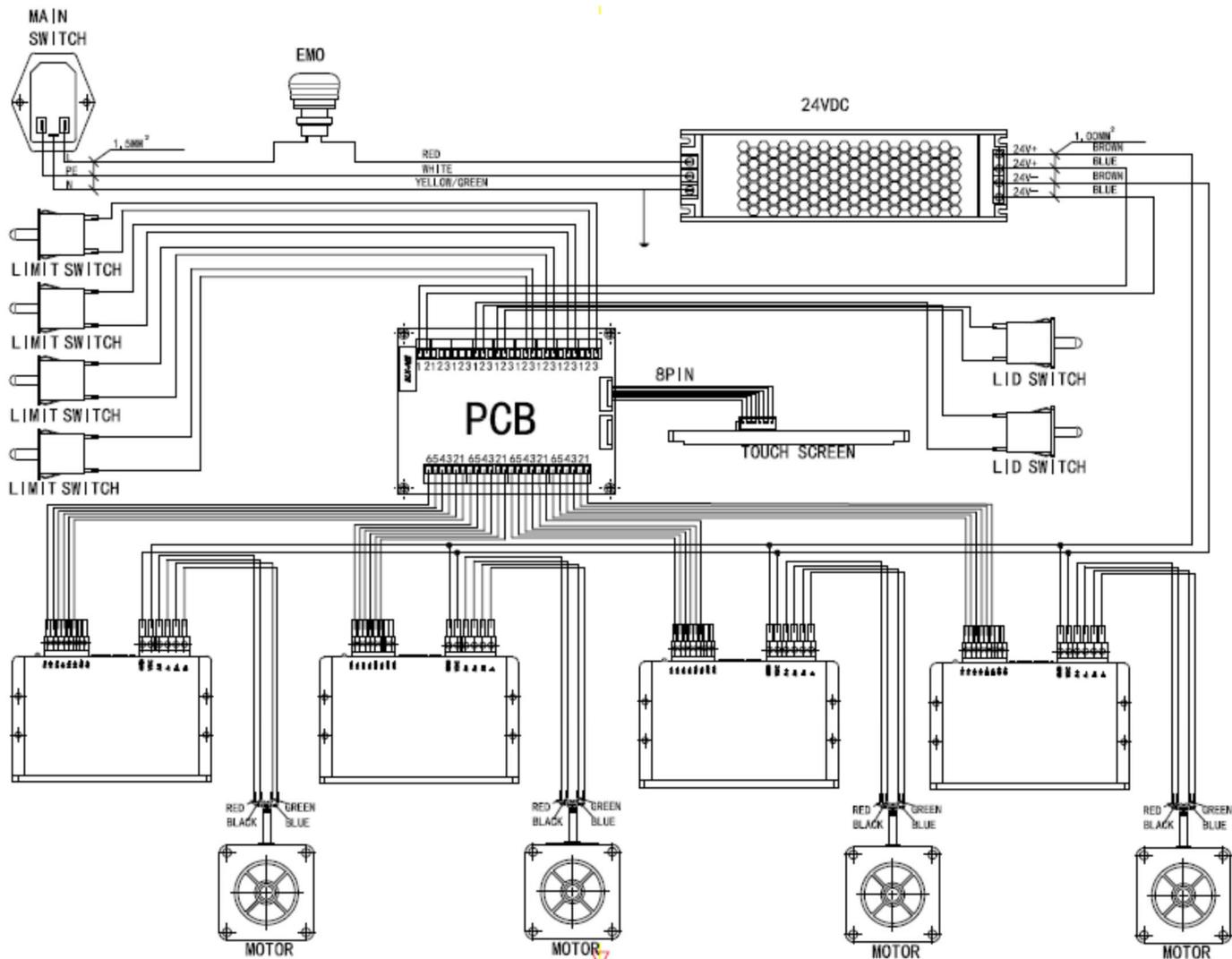
## 9 Dimension



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## 10 Diagrams

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## 11 Warranty

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Henkel expressly warrants that all products referred to in this Instruction Manual for (2551224 Loctite® 3D Printing EQ Washer DW11) (hereafter called “Products”) shall be free from defects in materials and workmanship. Liability for Henkel shall be limited, as its option, to replacing those Products which are shown to be defective in either materials or workmanship or to credit the purchaser the amount of the purchase price thereof (plus freight and insurance charges paid therefor by the user). The purchaser’s sole and exclusive remedy for breach of warranty shall be such replacement or credit.

A claim of defect in materials or workmanship in any Products shall be allowed only when it is submitted in writing within one month after discovery of the defect or after the time the defect should reasonably have been discovered and in any event, within (12) months after the delivery of the Products to the purchaser. This warranty does not apply to perishable items, such as fuses, bath tank, impeller, O-rings, Cleaner C. No such claim shall be allowed in respect of products which have been neglected or improperly stored, transported, handled, installed, connected, operated, used or maintained. In the event of unauthorized modification of the Products including, where products, parts or attachments for use in connection with the Products are available from Henkel, the use of products, parts or attachments which are not manufactured by Henkel, no claim shall be allowed.

No Products shall be returned to Henkel for any reason without prior written approval from Henkel. Products shall be returned freight prepaid, in accordance with instructions from Henkel.

NO WARRANTY IS EXTENDED TO ANY EQUIPMENT WHICH HAS BEEN ALTERED, MISUSED, NEGLECTED, OR DAMAGED BY ACCIDENT.

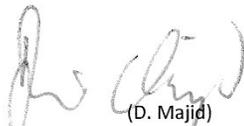
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## 12 Declaration of Conformity

Declaration of Conformity	
The Manufacturer according to the EC regulations	Henkel AG & Co. KGaA Standort München Gutenbergstr. 3 D-85748 Garching bei München
declares that the unit designated in the following is, as a result of its design and construction, in accordance with the European regulations, harmonized standards and national standards listed below.	
Designation of the unit	Loctite 3D Printing EQ Washer DW11
Unit number	2551224
Applicable EC Regulations	EC Directive of Machinery 2006/42/EC EC Directive for Electro-Magnetic Compatibility 2014/30/EU EC Directive of Low Voltage 2014/35/EU EC Directive of RoHS 2011/65/EU EC Directive of WEEE 2012/19/EU
Applicable harmonized standards	EN ISO 12100:2010, EN 62368-1:2014+A11:2017, EN 55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55024:2010+A1:2015, EN 60204-1, EN 50581:2012
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