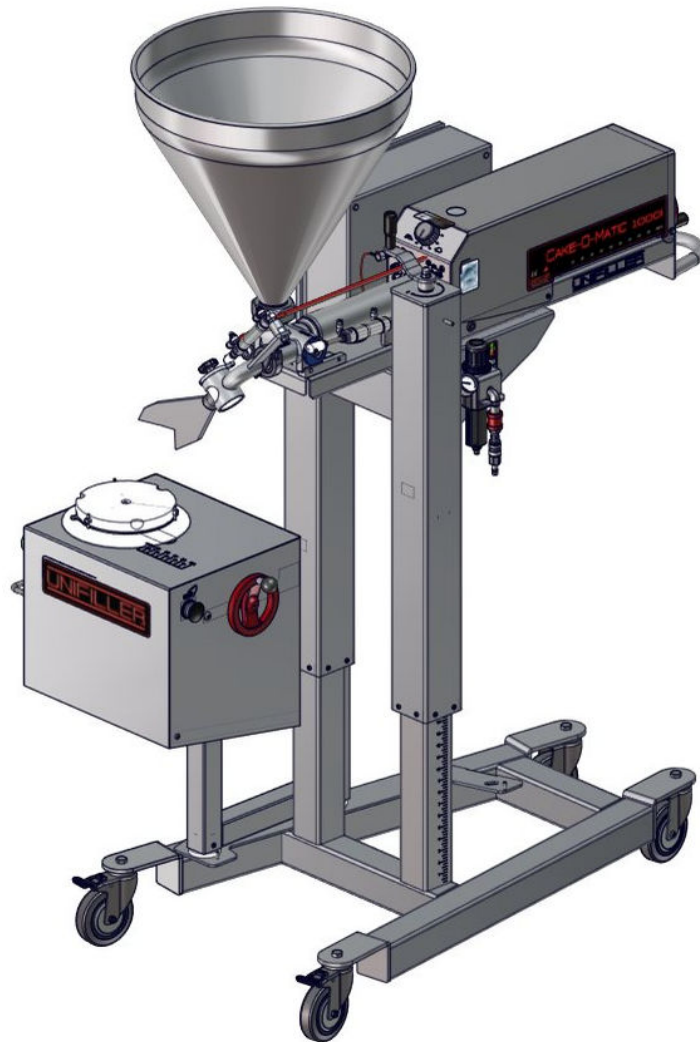


UNIFILLER™

COM 1000i sv Depositor INSTRUCTIONS AND SPARE PARTS



WE
CREATE
**THE
EASY
WAY**

Manual Part # COM1000isv-Ins-UK
02/11/2016 Ver 5
From Serial number COMV072255
“Translation from the original instructions”

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Safety Instructions and Warnings

These safety instructions must be read prior to operating, sanitizing or servicing the equipment.

All machines have a risk of personal injury wherever moving parts are involved in their operation. UNIFILLER has taken all possible precautions to reduce and wherever possible eliminate the dangers associated with moving parts. Having all operators/maintenance staff of this equipment read and abide by the instructions in this manual will further reduce the risk of personal injury. All users must familiarize themselves with the warning decals located around the machinery.

This equipment is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.

Caution - the air lines on this machine are under high pressure. Severe injury could result if tampering or adjustments are made by non-qualified personal.

Operating Air pressure should not be adjusted to exceed 80 P.S.I. (551 kPa /5.52 Bar) on the Air regulator / Water filter pressure gauge.

Before cleaning, dismantling, or servicing the machine, turn air off and bleed pressure from the air supply prior to disconnecting airline. Isolate any other power sources, and then lock them out.

Safety guards or devices must not be removed or disabled by any personnel other than when locked out for service maintenance by a technician.

Keep fingers and hands away from all pinch points, mechanical moving parts, including the hopper inlet and deposit nozzle outlet.

Before use, fully sanitize the machine.

Do not run product or water, with temperatures exceeding 140°F, (60°C), through the machine. For Product Temperatures that exceed 140°F, (60°C) up to 180°F, (82°C), please use HOT changeover parts on the machine. Contact Unifiller for details.

Before use, fully sanitize the machine. Dismantle and lubricate all the seals as per cleaning / sanitizing instructions in this manual after each use.

Before use ensure that the locks on the wheels are engaged.

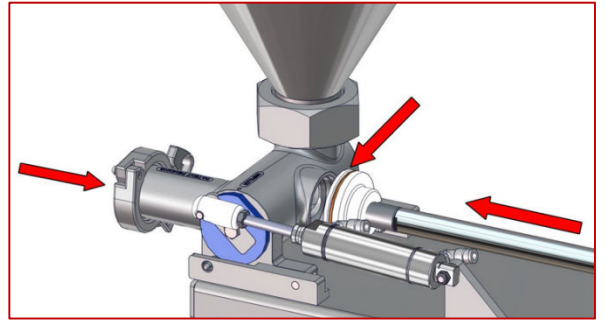
For servicing or technical support please contact UNIFILLER directly or one of its authorized suppliers or dealers.



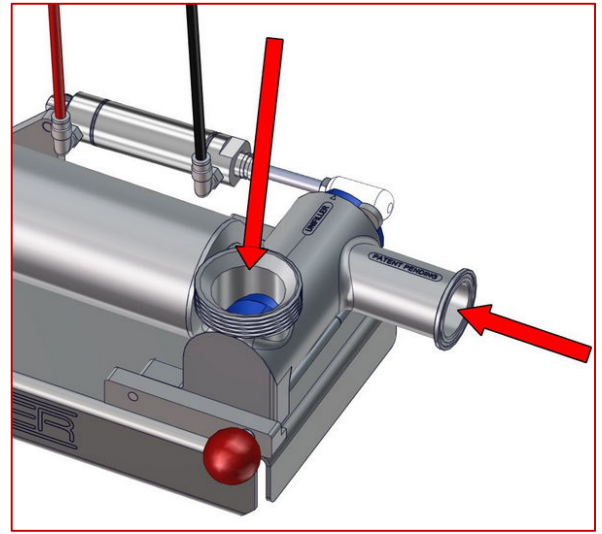
Unifiller Systems recommends the use of approved personal protection equipment when using this equipment.



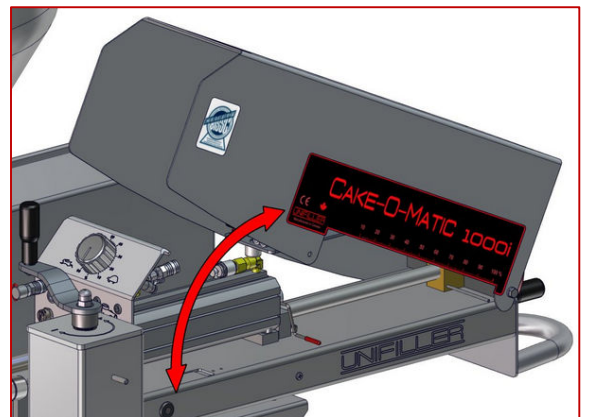
- Do not operate machine without the product cylinder installed. If it becomes necessary to operate the machine without a product cylinder in place, caution must be observed that you do not place any body parts near the operating parts of the machine, or pinch points.



- The indicated areas shown are potential pinch points. Do not place fingers near or in these areas.



- When closing the top cover be cautious that fingers do not get pinched.





- During operation of the machine, do not remove the red safety pin as the hopper and product cylinder may fall off, if action occurs during mid cycle.



- Use caution when starting the machine as it may operate and move parts to their “Home” position, if it was stopped during its cycle due to a power outage.
- Do not attempt to remove the hopper from the equipment when full of product. Always empty the hopper of product prior to removal.



Introduction

Thank you for purchasing Unifiller Equipment. We are sure you will get years of trouble free use and excellent productivity from your new investment.

Please take a few minutes to read this manual and familiarize yourself with the layout of the controls, and the set up and operating procedure.

If you have any questions regarding the setting up, or operation of your equipment please contact us.

Contacting Unifiller

Manufacturer

Unifiller Systems Incorporated,
7621 Macdonald Road
Delta, B.C.
V4G 1N3

Telephone

Main: 604-940-2233
Toll Free: 1-888-733-8444

Fax : 604-677-5844

Email: parts@unifiller.com

OR

Contact your local authorized Unifiller dealer.

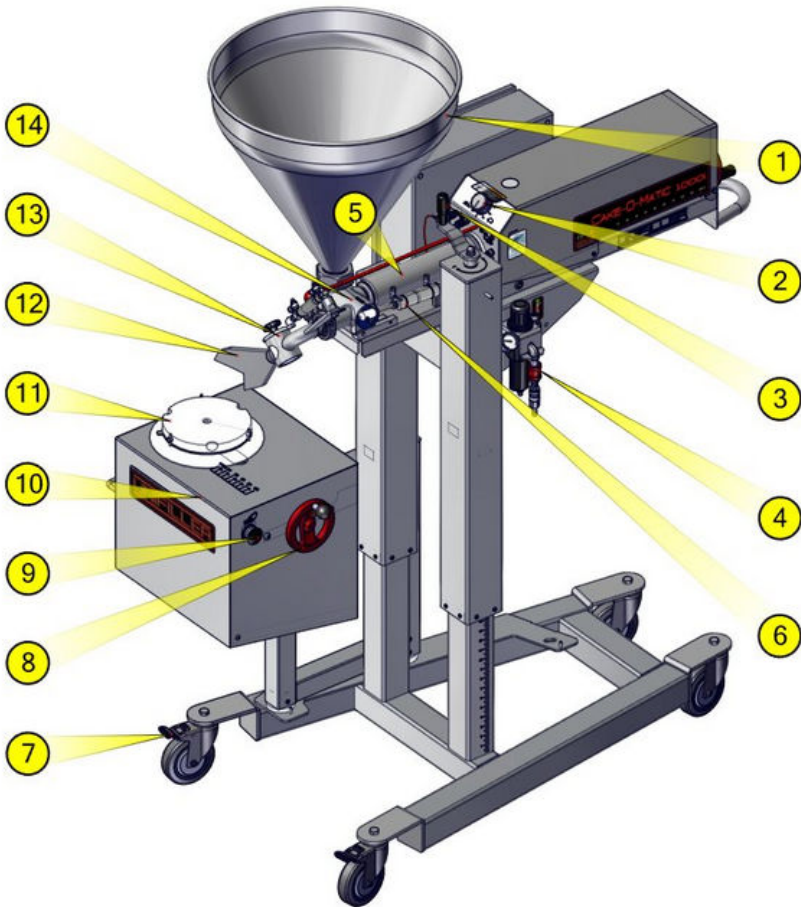
Please see our website for dealer contact information @. www.unifiller.com

Please remember to supply your company name, telephone number, email and a contact name when ordering parts.

Machine Description

The COM1000i is a computer controlled Depositor designed to apply product to the top and sides of round Cakes. The COM1000i Servo turntable speed is automatically adjusted by a computer, compensating for changes in icing consistency. This eliminates the requirement for operator adjustment during production. It may also be used as a stand alone depositor.

Intended uses	Non intended uses
Batter for cakes, muffins, etc	Dry goods
Fruit fillings	Large chunks
Icings, frostings and toppings	Liquids
Jams and jellies	Stiff non settling products
Creams, custards and mousse	
Anything that can be squeezed through a pastry bag	TSI nozzle side gap adjustment handle.



#	Description
1	14 Gallon / 52 Lt Hopper.
2	Deposit speed control.
3	Height adjustment.
4	Air regulator / filter, Air supply slide valve.
5	Product cylinder
6	Safe-T Valve air cylinder
7	Locking wheels.
8	TSI nozzle side gap adjustment handle.
9	Deposit button.
10	Turntable enclosure.
11	Adjustable turntable.
12	TSI nozzle
13	Swing valve.
14	Safe-T- block.

#	Description
15	Volume adjustment.
16	Control enclosure
17	Table lock
18	Turntable spin button
19	Top and Side Icing Nozzle Connection



Serial Number location

Quote this number when ordering spare parts

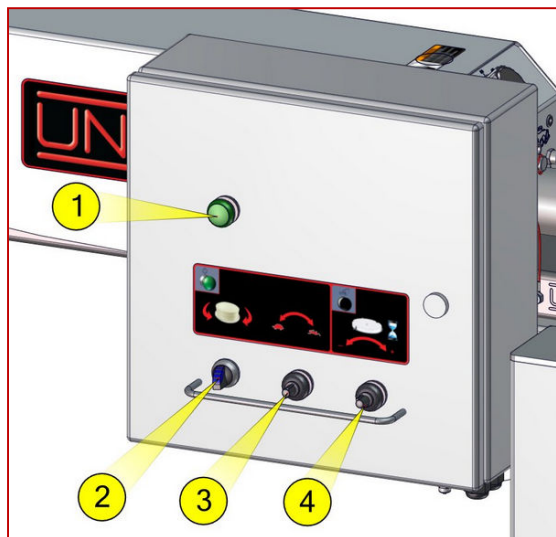
It is located as shown.



Controls

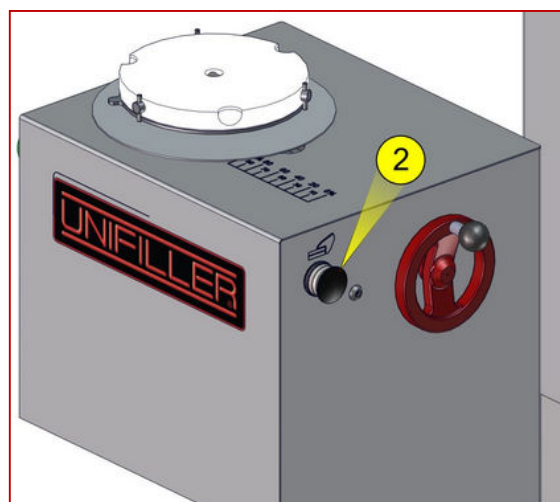
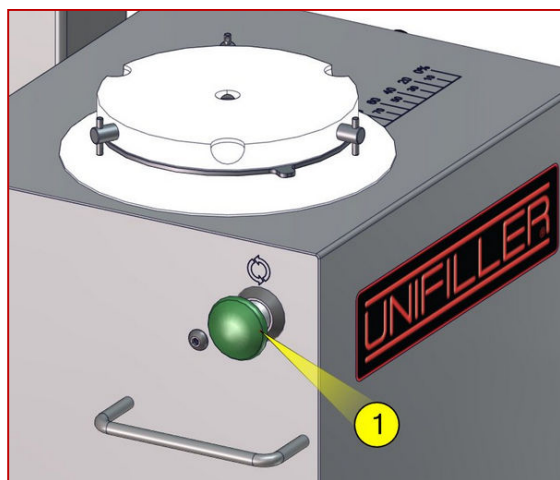
Main control enclosure

#	Description
1	Power Indicator light
2	Turntable Direction: Sets rotation direction of the turntable during spin only functions.
3	Turntable Speed: Sets rotational speed of the turntable during spin only function.
4	Turntable Delay: Delays turntable rotation start in relation to the deposit start.



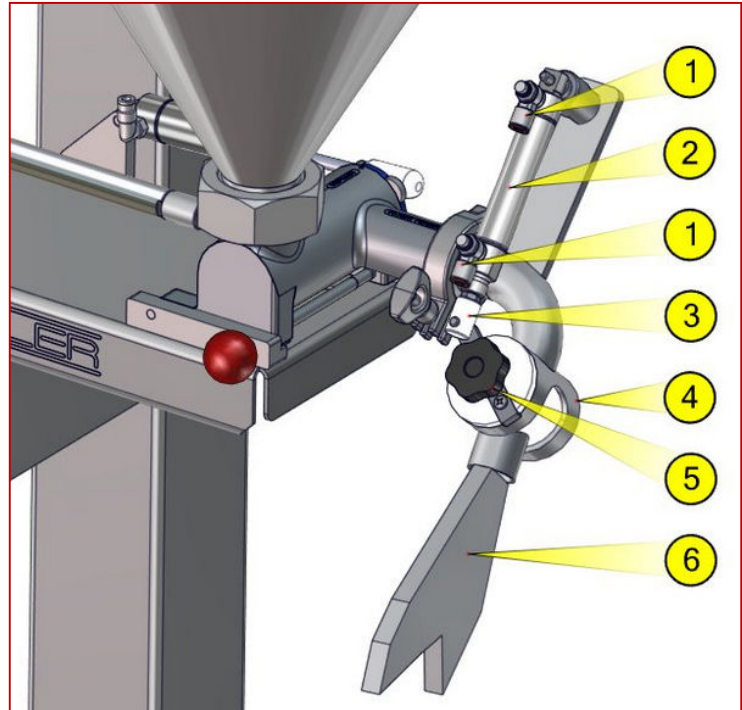
Turntable Buttons

#	Description
1	Spin only
2	Deposit



Swing Nozzle Components

#	Description
1	Swing speed air flow control
2	Swing valve air cylinder
3	Air Cylinder Clevis
4	Swing nozzle housing
5	Nozzle retaining screw
6	TSI Nozzle



Note: The swing valve is factory set for slow retraction.

Turntable Position

The turntable must be in either of the following two positions for safe transport and operation:

Stored away and locked in position at the rear of the depositor, or moved fully out and locked in the operational position.

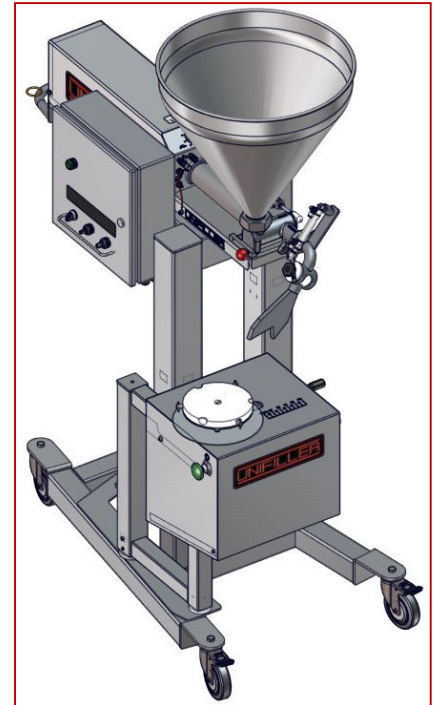
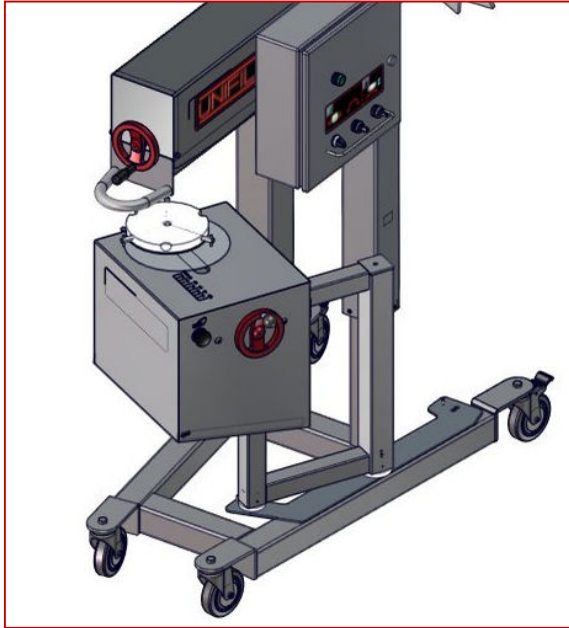
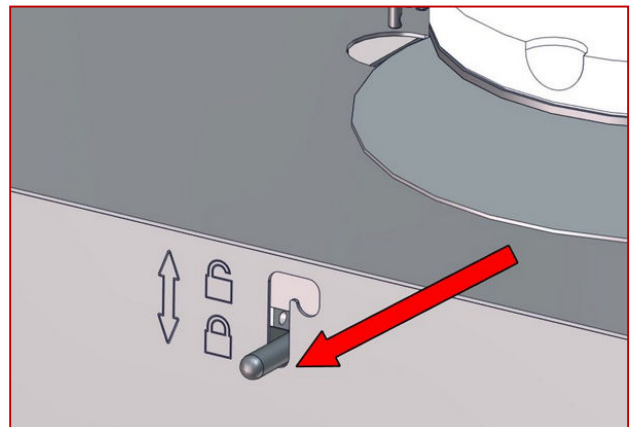
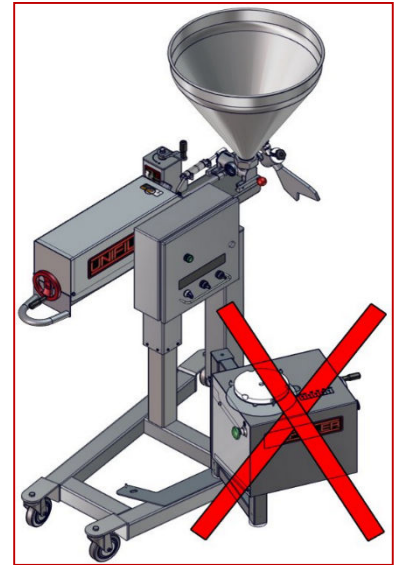


Table lock in the down locked position.



Safety

Never leave or use the machine with the table swung out at the side, this may cause the balance of the machine to be unstable.



Air Requirements

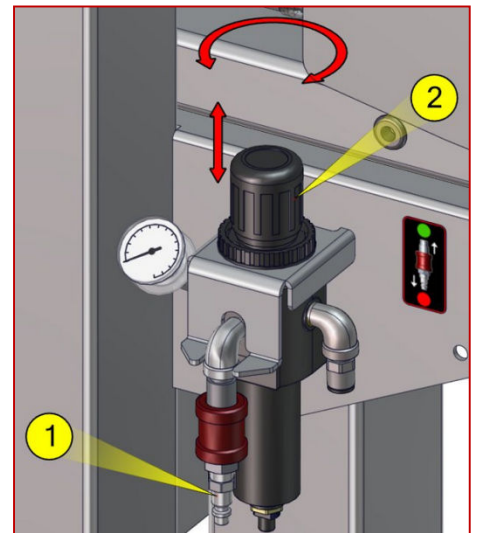
Important:

It is recommended that the compressed air supplied to the depositor be run through an air dryer before connecting to machine. Please contact UNIFILLER for details.

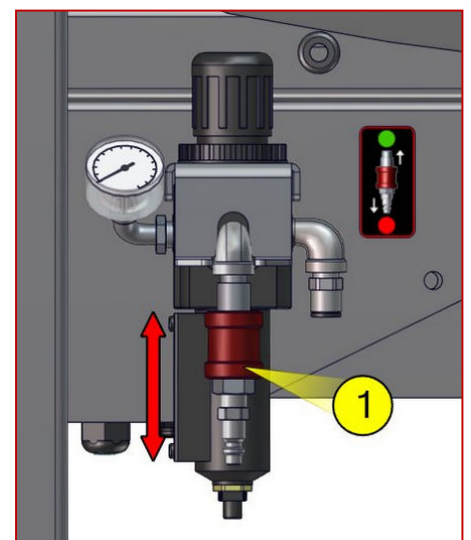
Use a airline with a minimum inside diameter of 3/8" (10mm)

Connect your supply air hose that comes from your compressor (not supplied) to the quick connector (1) which is located on the bracket next to the main frame upright.

Set the air pressure gauge on the machine to 80 P.S.I. (5.5 Bar) by pulling up the knob (2), adjusting the air pressure, and then pushing the knob down to lock it.



The air supply is controlled by the Red slide valve (1).



Electrical Power Requirements

North America

115 volt single phase 60Hz AC.

Requires 15A Service

FLA 1A

Europe

220 volt single phase 50Hz AC.

Requires 15A Service

FLA 1A

The operating voltage is factory set, and is **not** field adjustable. Please contact Customer care if any change to the operating voltage is required.

A means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules”

If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.”

Priming/Preparing to Deposit

Before filling the hopper, ensure the machine is assembled correctly with seals in place, and that the correct depositing outlet attachment is fitted, and all clamps are tightened.

Remove the foot pedal from its hanger and position it on the floor in a comfortable operating position.

After sanitizing (See sanitizing section),

Fill the hopper.

Connect the depositing attachment and foot pedal to the machine using the appropriate clamps and quick disconnects.

Connect the air supply.

Depress foot pedal, deposit button or hand held nozzle trigger until product flows from outlet.

Deposit Speed Control

The deposit speed controls the speed at which the product is placed into the target area.

Turn clockwise = decrease deposit speed

Turn counter clockwise = increase deposit speed

Important: If a deposit speed adjustment is made after the volume has been set, the volume may change slightly, so be sure to re-adjust the deposit volume if required.

The deposit 0-100% speed Dial is a calibrated one turn adjustment to obtain the desired speed of delivery of the product mix to the target area



Deposit Volume Adjustment

Press the foot pedal once and 1 measured amount will be deposited.
For continuous deposits press and hold.

Run the machine 2 or 3 cycles, check the weight of the last deposit.
Turn air off, adjust size of deposit by turning the hand wheel at the rear of the machine.

Turn air on

Make 2 or 3 deposits into a container and check the weight, adjust the volume again if required.

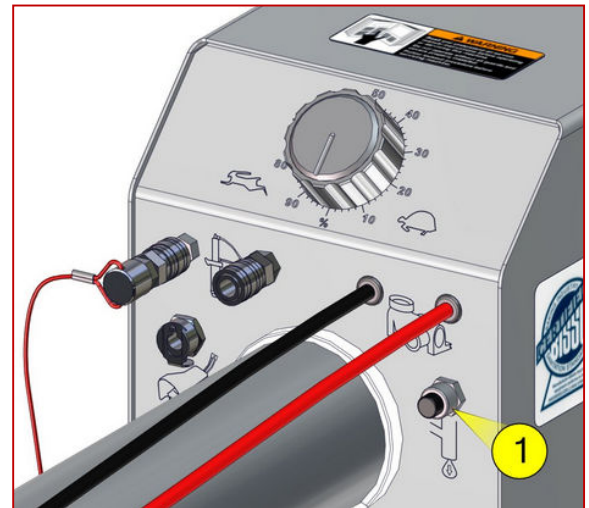
If deposit is below 12% on the side scale, change the product cylinder to the next size smaller.



Purge Button

A Purge button (1) is located on the front base plate. This allows the depositor to be cycled manually without the need of a foot pedal or an external signal. This can be used to prime the depositor, or cycle it during cleaning.

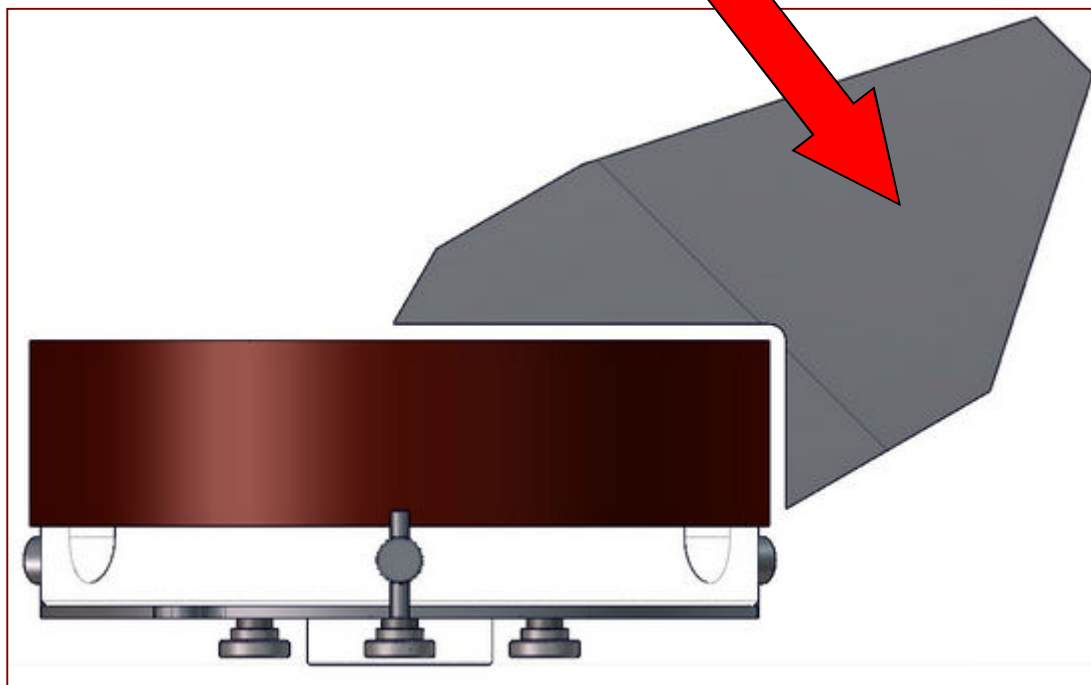
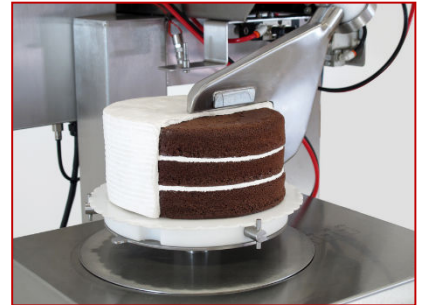
This button can also be used if on the rare occasion the depositor becomes stuck mid cycle. Press the button once and the machine will cycle and reset.



Setting up the Nozzles for Top and Side Icing

A well-balanced and properly positioned TSI icing nozzle will give you an equal, level amount of icing in all areas when icing the cake.

This area of the nozzle has been “depressed” at the Unifiller factory. This restriction forces the product to flow evenly to the tips of the nozzle.



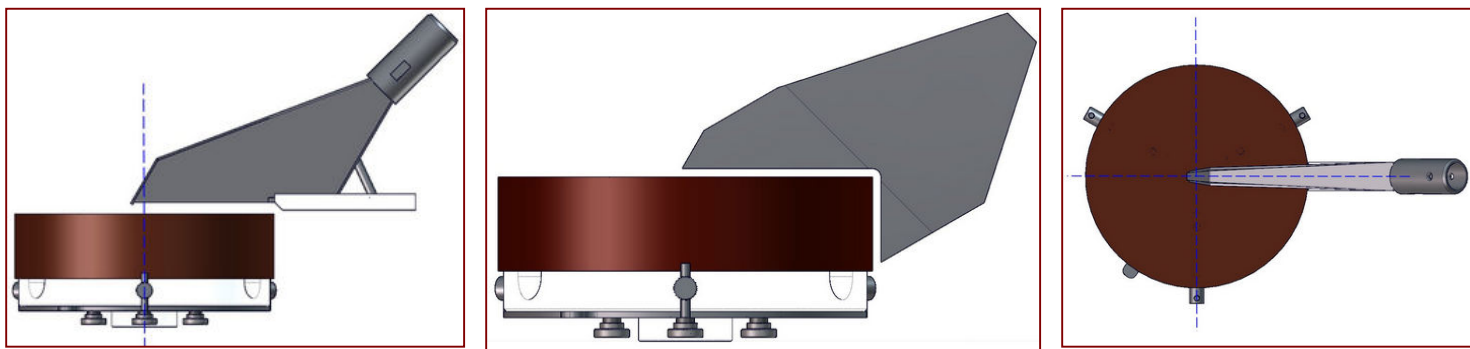
Position your TSI nozzle as shown above for recommended set up. A side and top gap of typically $\frac{3}{16}$ to $\frac{1}{4}$ " (5-6.5mm) is recommended.

Nozzle Gap Adjustment

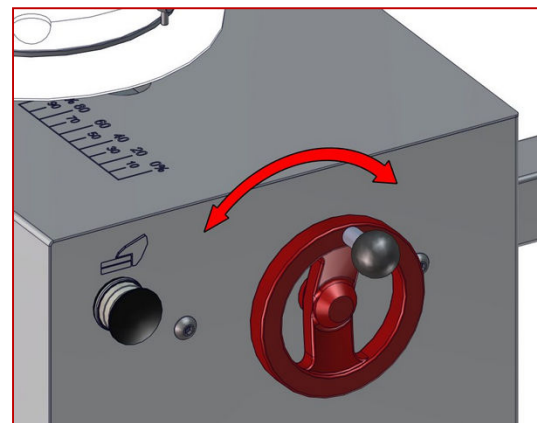
This applies to TSI and middle fill nozzles

1. Turn air off and remove supply line from machine.
2. Place the cake on the turntable ensuring it is centered.

Correct alignment of middle fill nozzle, applies to Top and Side nozzle.



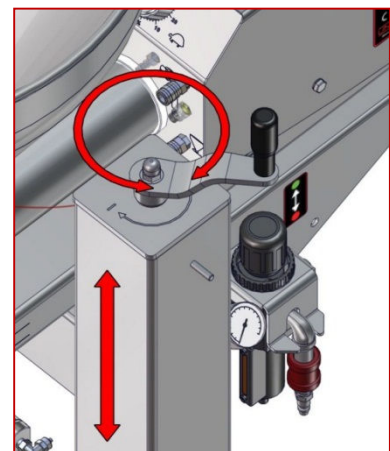
3. Swing the nozzle down, (nozzle should line up with the center of the cake).
4. Level the nozzle (loosen clamp and rotate) to be parallel with the turntable.
5. Adjust the distance of the nozzle from the top and the side of the cake. (This gap should equal the required thickness of icing).
6. Adjust side gap using the hand wheel on the right-hand side of the turntable cover.



Adjust top gap using the height adjustment hand wheel.

7. Swing nozzle back to rest position (Up).
8. Reconnect supply line and turn Air on.

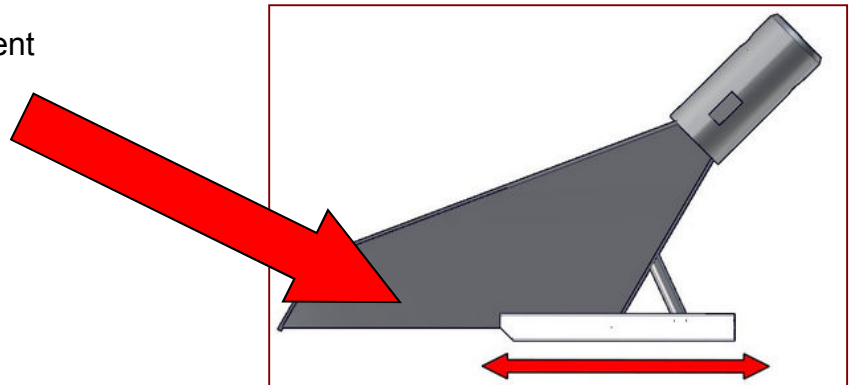
NOTE: Amount of icing thickness is determined by deposit volume



Set up of Middle fill nozzle.

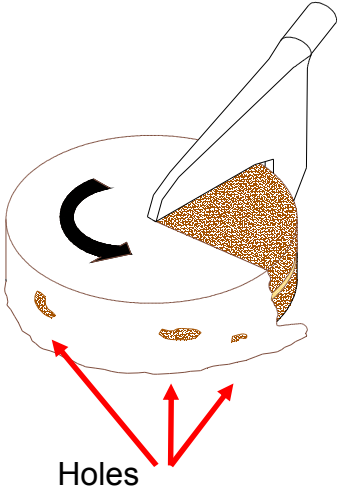
Turn air off and remove supply line from machine.
Fit middle-icing nozzle to machine.

The plastic slider allows for different diameter of cakes to be middle filled.



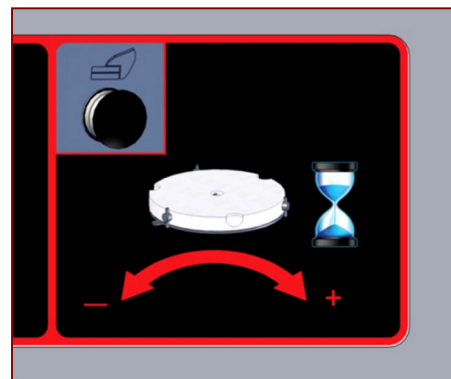
1. Turn air off and remove supply line from machine.
2. Place cake cardboard and 1st cake layer onto turntable.
3. Swing the nozzle down and check that it is correctly centered.
4. Adjust both height and sideways position.
5. Reconnect supply line and turn Air on.

Enrobing Trouble Shooting

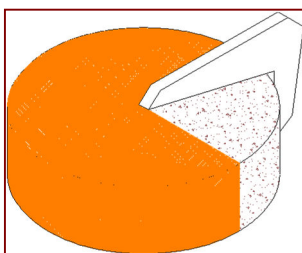
 <p>Holes</p>	<p>Wrong! Holes in the icing shown on the side of the cake are caused by the following issues:</p> <ul style="list-style-type: none">Cake is not centered on turntable.Icing is not smooth.Top and Side icing nozzle is not close enough to the side of the cake. Icing will not adhere to the cake.Deposit volume is set too low.Deposit speed is too slow.. <p>Remedy:</p> <ul style="list-style-type: none">Icing must be smooth and bubble free.Increase deposit volume.orIncrease deposit speed.
--	---

Turntable Delay

This function controls how long the cake “waits” before the turntable starts to rotate. This should be adjusted to delay the spinning of the turntable until the icing adheres in a straight line to the top and side of the cake. When the delay is set correctly, the icing forms a straight edge start (top and side), if it starts to rotate too early, a ragged or “S” edge is formed at the start.

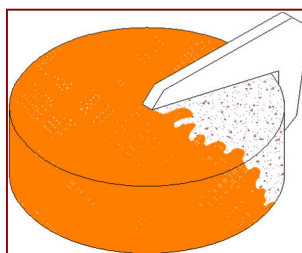


Default value for the turntable Delay is 2.5 on the dial.



CORRECT

The delay is set correctly; the icing adheres to the cake and then rotates



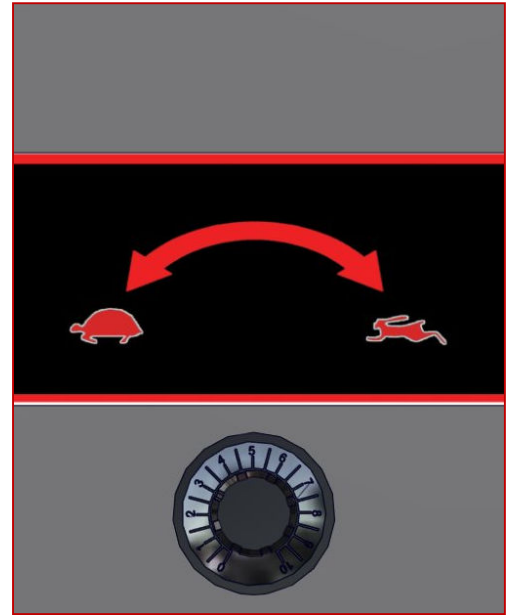
INCORRECT

Delay is too short, the table started to rotate too early. This will produce a “Ragged” edge start. Increase the delay setting.

Turntable speed

The deposit speed dictates the turntable speed; faster deposit speed will result in a faster turntable speed.

In most cases adjust deposit speed so that the icing is applied in about 1 second (resulting in 50-60 RPM)



Tips for achieving the best results with the COM1000i

EVEN CAKES

Consistent cake height will result in less touch up and higher production rates with more quality product throughput. If layers do not bake to consistent heights, a slabbing system is recommended. Contact UNIFILLER for details.

ACCURATE MIDDLE FILLS

Portion control for mid fill operations ensures consistent mid fill thickness. This will have an overall positive affect on cake production by improving final cake height consistency. Use your COM1000i for mid fill operations. Use multiple machines alongside a conveyor for best production rates. Contact UNIFILLER for details.

MIDDLE FILL APPLICATION

It is recommended that the mid fill icing extend slightly over the edge (providing it is the same icing on the top and side ice). This will compensate for slight differences between the cake layers and allows for optimum top and side icing application.

ICING QUALITY

Icing must be of a smooth consistency, this is the most important factor in achieving a quality result.

ICING THICKNESS

The ideal thickness range for best results is 3/16" – 1/4" on top and on the sides. This will reduce touch-up.

Turntable Factory Settings

Deposit Delay	2.5
Overlap*	60 DEG
Over Rotate*	60 DEG

*Overlap and Over Rotate functions have been factory set to suit most applications,

Overlap: Sets how much more the turntable will rotate while depositing to a maximum of 453 degrees. This is usually used to close the end and start gap, as well as deposit more than one layer of product for apportion of the cycle.

Note: Increasing Overlap will also increase the spin speed (so that the turntable does its rotations by the time the depositor finishes dispensing).

Over rotate: Sets how much more the turntable will rotate after depositing has completed to a maximum of 90 degrees over the depositing rotation. This is usually used to clean up the finish and prevent tailing.

Note: Over rotate will not affect the spin speed.

Please contact Unifiller if a change to these settings is required.

Working with the machine as a Depositor



If you experience splashing of the product when depositing, slow down the deposit speed as described previously.

If the product is depositing too slowly, increase the deposit speed.

Keep the hopper more than $\frac{1}{2}$ full to avoid air pockets and inconsistent deposits / portions.



Disassembly For Cleaning / Sanitizing

General

Sanitizing requires that the food contact parts be disassembled.

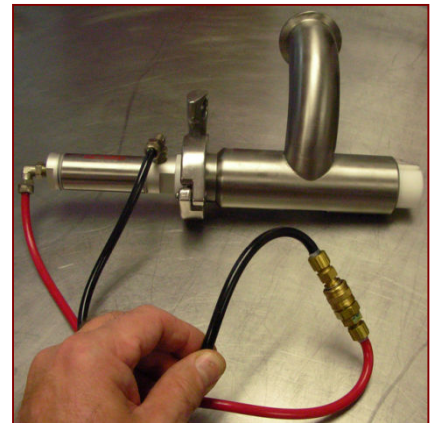
Note:

Always lay parts on a flat tray, never in a pail or bucket.

- Remove plug from electrical source
- Turn air off and remove supply line from machine.
- Scrape down the inside of the hopper.
- Reconnect supply line and turn air on.
- Keep depositing until nothing more comes out of the outlet nozzle.
- Turn air off and remove supply line from machine
- Pour warm water (maximum 140°F 60° C) into the hopper and wipe the inside of the hopper clean.
- Reconnect supply line and turn air on.
- Reduce deposit speed.
- Cycle the rest of the water out of the machine.
- Repeat the above procedure.
- Turn air off and remove supply line from machine.
- Remove depositing nozzle.
- Disconnect attachment airlines from machine.

Connect the red and black quick connects together.

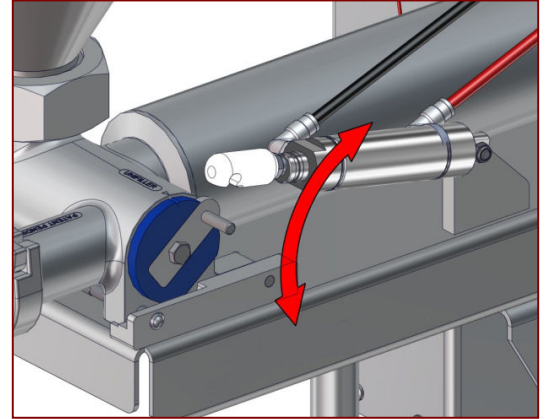
This will stop water from entering the air cylinders during cleaning.



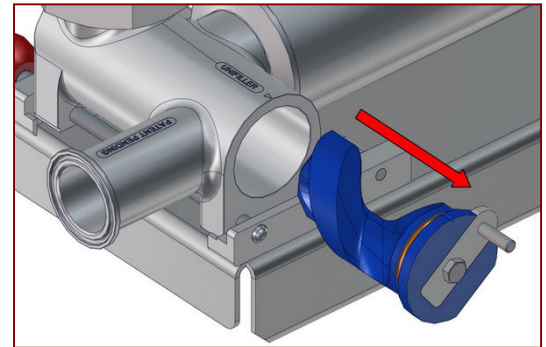
DO NOT SUBMERGE THE AIR CYLINDERS IN WATER.

- Remove Hopper and place top downwards on a sanitary surface.
- Unclamp depositing attachment.

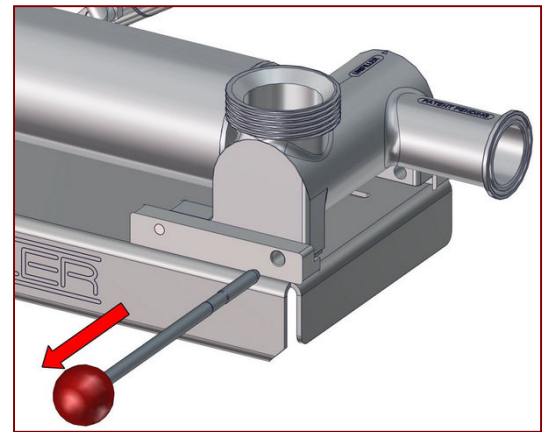
- Remove the Safe-T-Valve block, by pulling the clevis off the pin, Swing Air cylinder away from block.



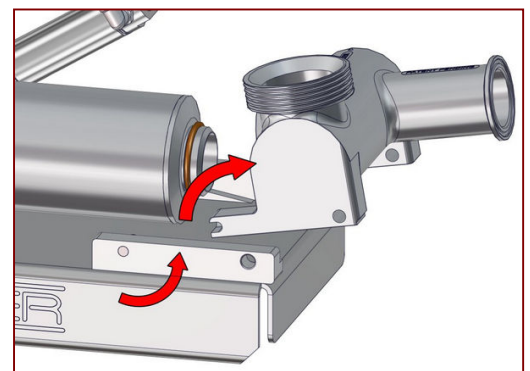
- Pull the Safe-T-Valve out of the Safe-T-Valve block.



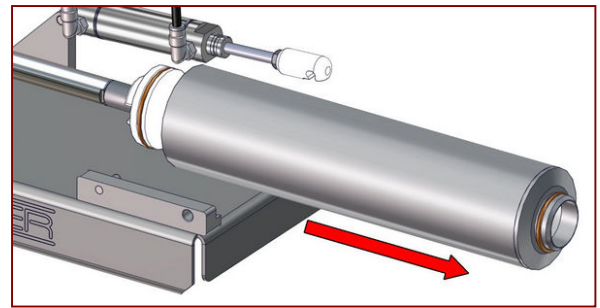
- Pull the Red safety pin out from the side



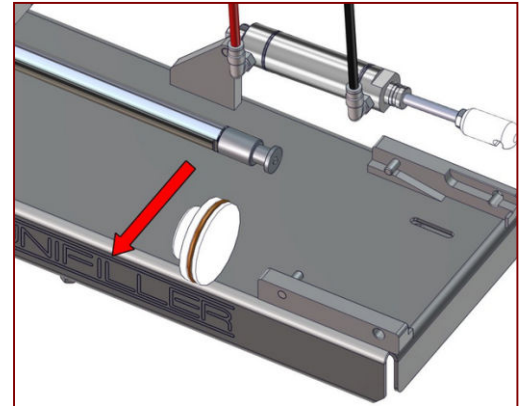
- Remove the Safe-T-Valve block by tilting it up, away from the lip, and then forward off the base



- Remove the product cylinder by sliding forward.



- Remove the product piston.



NOTE: Use O-Ring tool to remove all O-Rings

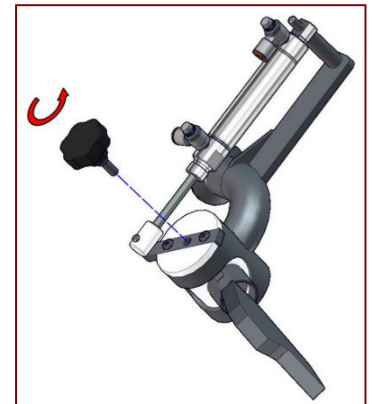


Tip.

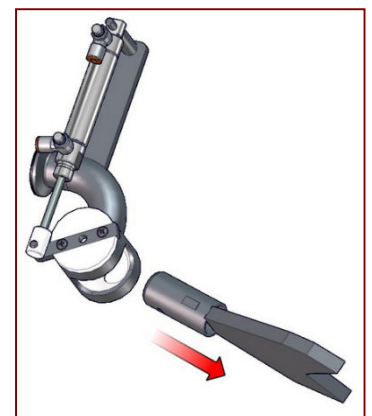
Place the O rings and clamp gaskets on one of the clamps, this will keep them from getting misplaced.

Swing nozzle O ring removal

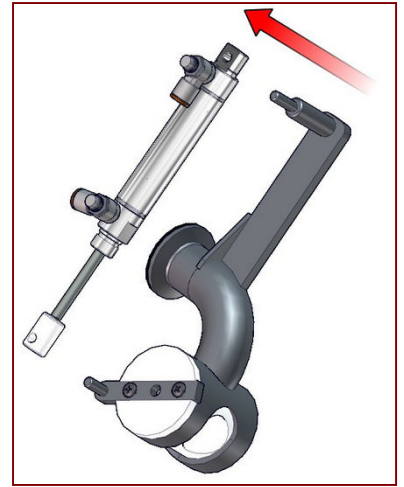
- Remove thumb screw



- Pull nozzle out



- Remove Air cylinder.

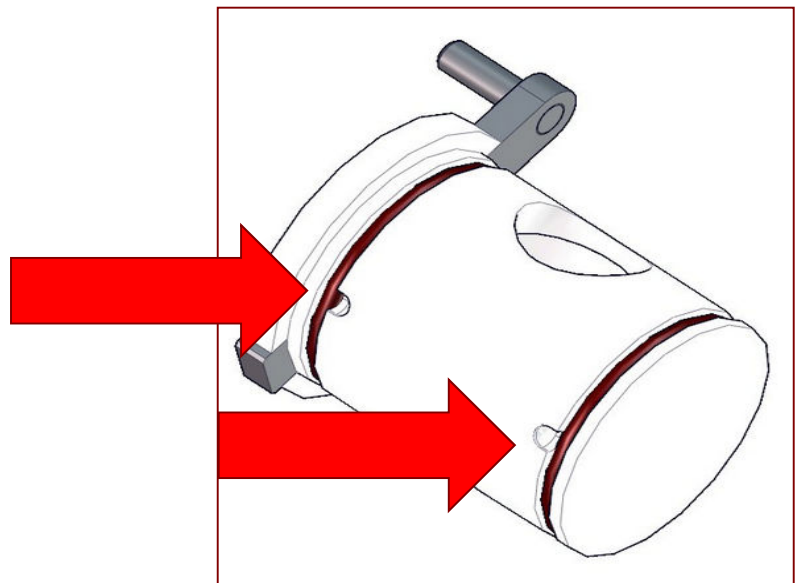


- Pull valve out from body.



- Remove the two O- rings

Use the O-ring pick tool in “prying grooves” to avoid damage.



Warnings

- Abrasive materials may damage finish of this equipment.

Use of the following types of cleaning agents is not acceptable and may cause damage to the Machinery that the manufacturer cannot be held responsible for.

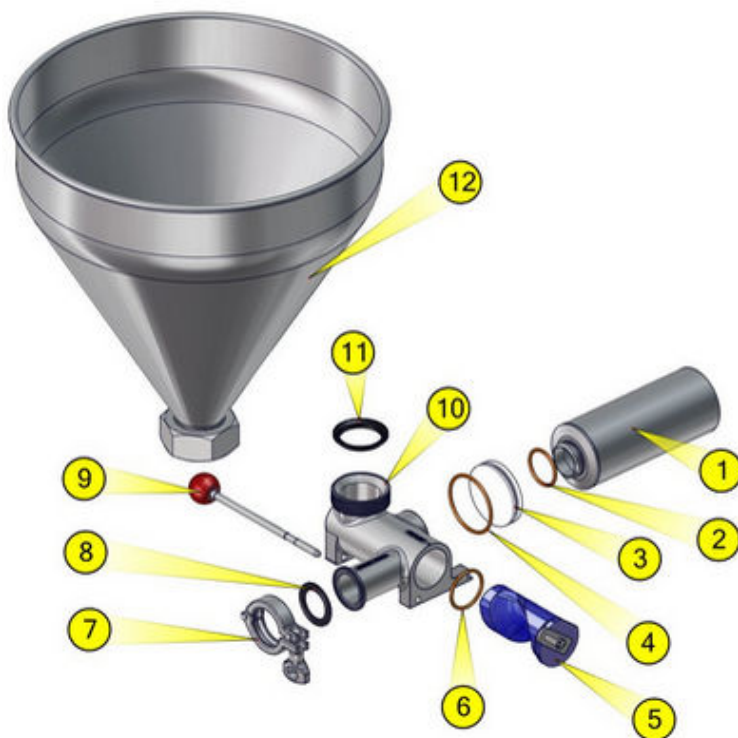
Check specifications and warnings on labels of all cleaning products prior to use.

- Cleaning agents containing chlorine or chlorides may cause spotting
Acidic or alkaline solutions can cause corrosive reactions between dissimilar metals as are found in this machine such as bearing housings and electrical conduit.
- Solvent, Aromatic or chemically reacting solutions may cause damage to synthetic materials such as rubber contained in the electrical seals or seals of mechanical drive components.

Cleaning

- Mix 1 to 4 ounces (30-120ml) of *Zep F.S. PROCESS CLEANER* (green) per gallon (4ltr) of water. Immerse the parts in the solution. Clean all food residues with a cloth or a non-metallic scrubbing pad/brush. Rinse thoroughly with potable water. For the hopper, spray the same solution on to the Hopper surface.

Clean and sanitize the parts shown, and any attachment parts.



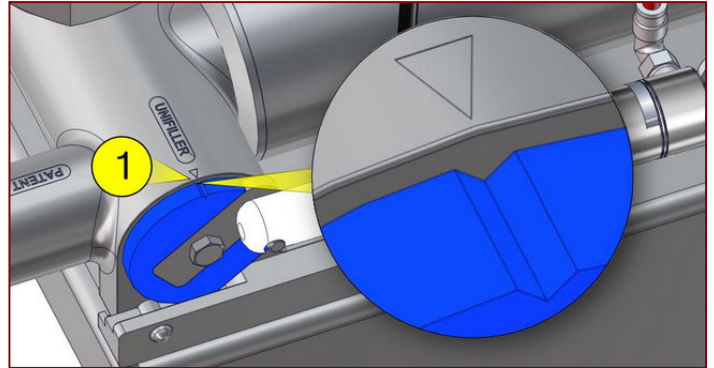
Item	Description
1	Product Cylinder
2	Product Cylinder O Ring
3	Product Piston
4	Product piston O Ring
5	Safe-T-Valve
6	Safe-T-Valve O Ring
7	Clamp
8	Clamp Gasket
9	Safety Pin
10	Safe-T-Valve Block
11	Hopper Gasket
12	Hopper

Sanitizing

- Mix 1 ¼ oz's (120ml) of Zep F.S. SUPERMARKET SANITIZER (red) per gallon (4ltr) of water. Immerse all parts that were previously in the cleaner in the new solution for 1-2 minutes. Rinse thoroughly with potable water.

Re Assembly

- Inspect all 'O' rings and seals for damage or wear; replace if required. Re-lubricate all O rings with food quality grease (as supplied with your machine). Re-assemble in the reverse order taking care to align the cutout in the Safe-T-Valve with the mark on the Safe-T-Valve block assembly.



- Re-connect all the airlines

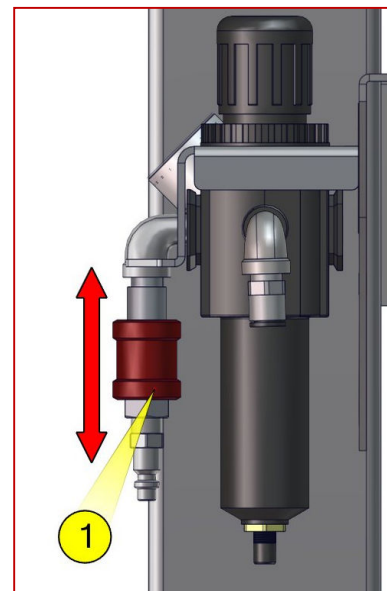
The rest of the machine can be wiped down or washed with a mild detergent.

Maintenance

Turn air off, and remove supply line from machine before any maintenance is performed.

IMPORTANT SAFETY NOTES:

Move the Red Slide valve to the down position. (1)
Disconnect the air line from the machine before opening the cover.



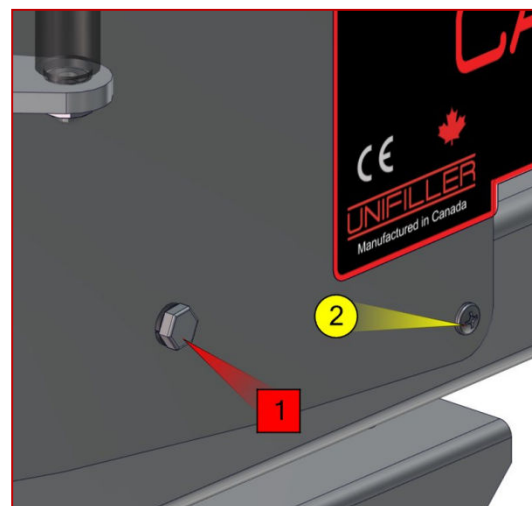
Any maintenance to the pneumatics system will require the top cover to be opened.

Maintenance personnel will require a Phillips screwdriver to open the cover.

If top cover is opened beware of pinch points

The screw (1) shown in **Red** is factory set, and must not be touched.

The top cover is locked in place with one screw (2) as shown in the picture.



O Ring Care

The most important components of the machine are the O rings. These must be inspected and maintained daily. All O rings should be a high quality Viton seal as supplied by Unifiller, or your authorized Unifiller dealer.

Signs of wear include: Flatness, Abrasions, Cracks, and Cuts

Daily

After parts have been cleaned, lubricate all O rings, seals and moving parts with food grade grease.

Weekly

With the air disconnected.

Check the air filter/regulator bowl and if necessary clean the bowl and empty any accumulated water.

3 Months



With the air disconnected.

Check the condition of the White filter in the Air regulator / Water filter, and replace if contaminated.

O Ring and Gasket Part numbers

Description	Part Number	Quantity Required
Hopper Gasket	01250-00	1
1 1/2" Clamp Gasket	01251-00	1
Safe-T-Valve O Ring	V0223-00	1
Product Cylinder O Ring	V0222-00	1 per Cylinder
1" (25.4 mm) Product Piston O Ring	V0115-00	1 per Piston
1 1/2" (38.1 mm) Product Piston O Ring	V0216-00	1 per Piston
2 1/2" (63.5 mm) Product Piston O Ring	V0227-00	1 per Piston
3" (76.2 mm) Product Piston O Ring	V0230-00	1 per Piston

The following parts are available from Unifiller or one of its authorized representatives.

Part Number	Description	Item
21052-00	O ring lubricant. 4 oz tube Lubri-film plus.	
22049-00	O-ring pick tool.	



Preventative Maintenance

Unifiller Systems distinguishes between two levels of care for equipment

Machine Owner / Operator Care

The operators of the machines are typically the “owners”, typically a person working with them. They depend on the machine to function reliably to be able to meet their production requirements. They most often know the machine best and can predict when something changes. The owners also typically take care of the basic maintenance and upkeep of the machines.

The Spare Parts Kits supplied with the machines are intended for the owners of the machines and are typically kept near the machines in the production area to have easy access to the seals and other wear parts.

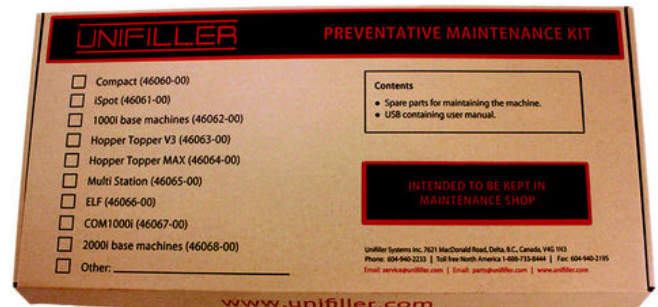


Preventative Maintenance Kit

Unifiller also offers Preventative Maintenance Kits for your machines. They are intended for the maintenance department and are typically kept in their workshop. The kits contain all parts for typical repairs and preventative maintenance.

They also contain a USB thumb drive that contains the manual and other useful information.

The Preventative Maintenance Kits offer a simple and cost effective solution for keeping the machine in top shape.



Contact parts@unifiller.com with the serial number of your machine to order a Preventative Maintenance Kit or spare parts.

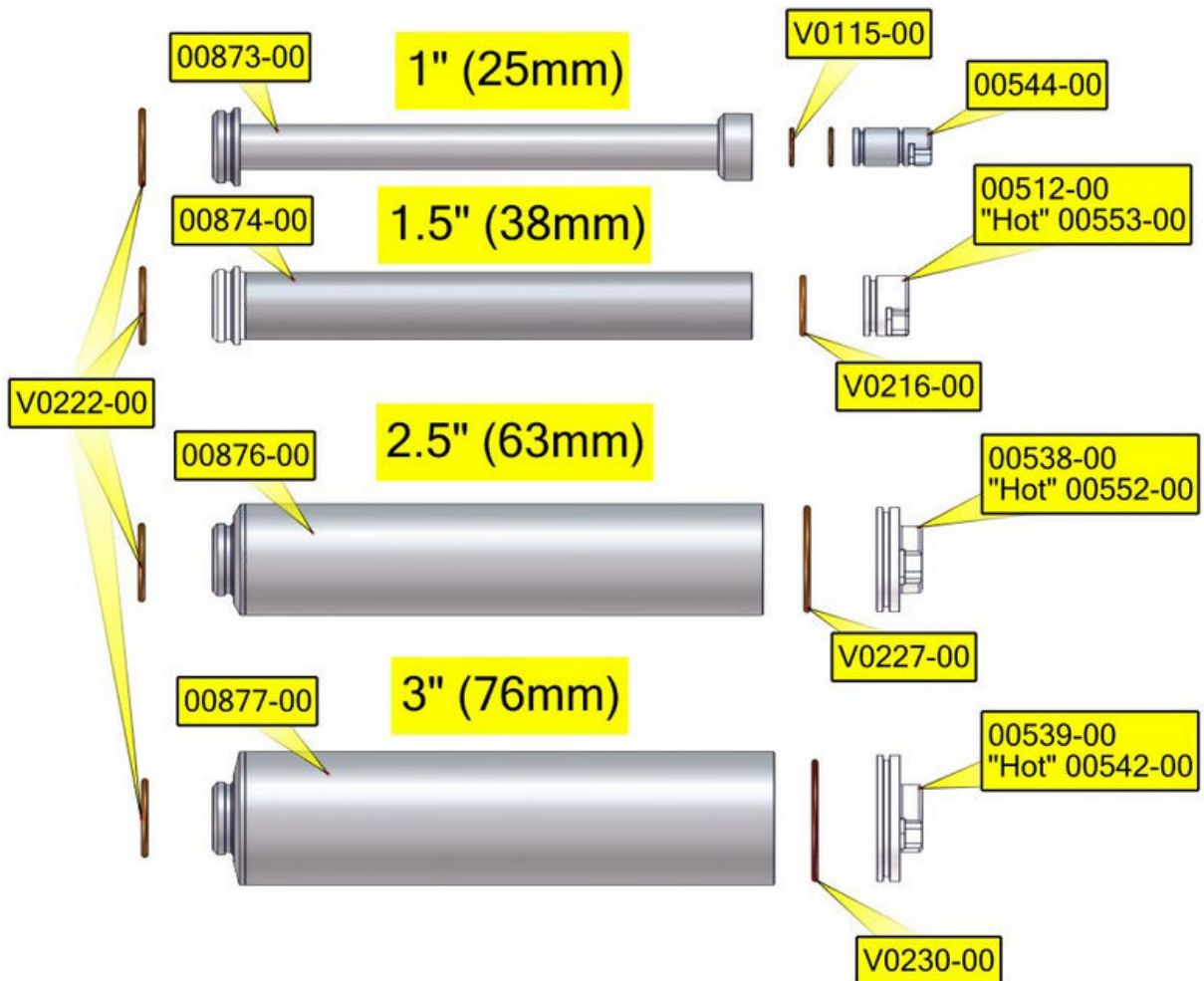
Spare parts

Product Cylinder Sizes

To obtain the most accurate deposit volume, 4 different sizes of product cylinder and product piston are available. See chart following.

To maintain portion accuracy, it is recommended that the % volume setting for the product piston be set between 12 to 80% of the scale, this will ensure optimum machine performance.

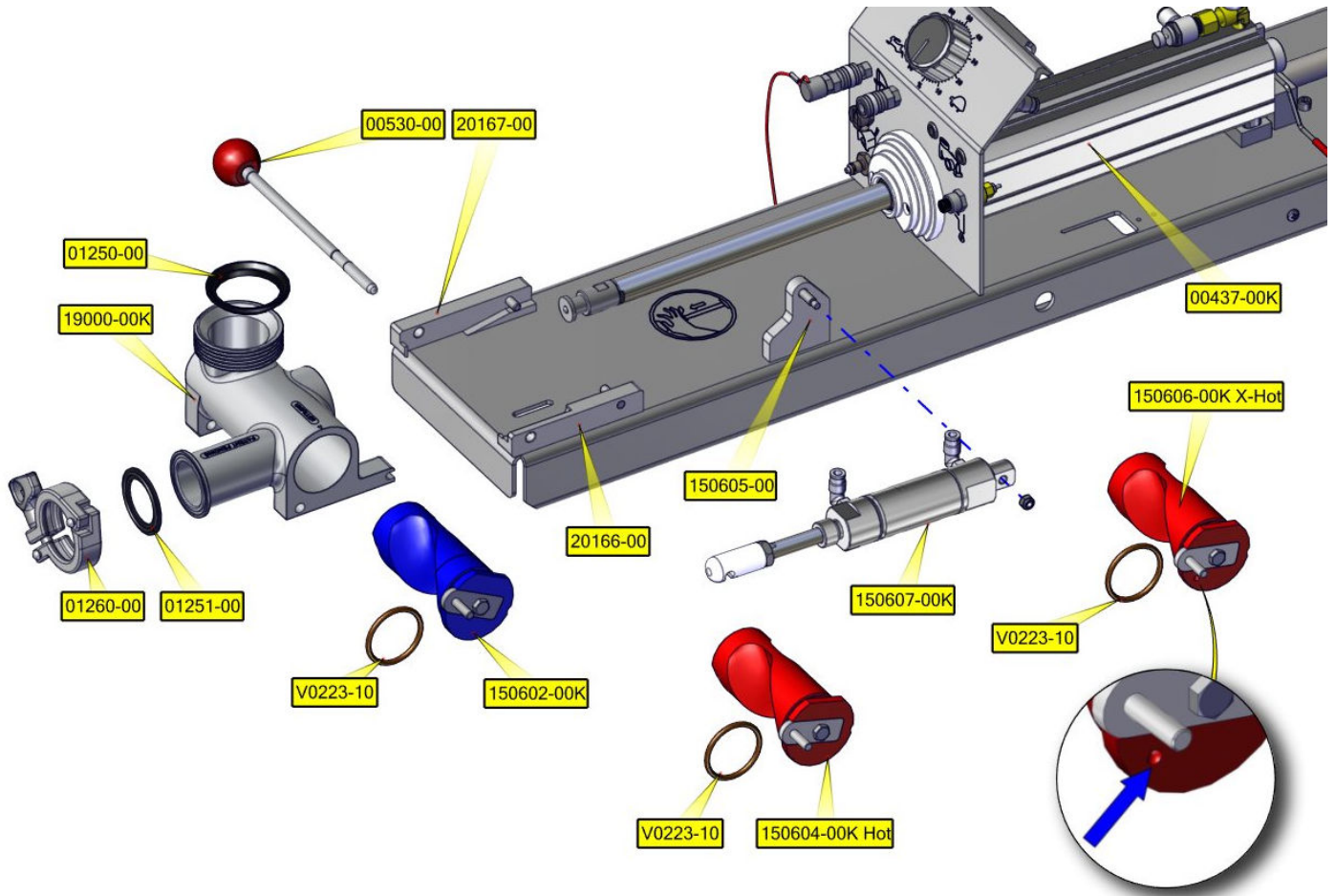
Size	Piston and Cylinder Kits Part Numbers	Volume (oz)	Volume (ml)
1" (25.4 mm)	12581-00	0.5 – 3.3oz	14 – 98 ml
1.5" (38.1 mm)	12582-00	1.2 – 8.0oz	35 – 240 ml
1.5" (38.1 mm) HOT	12583-00	1.2 – 8.0oz	35 – 240 ml
2.5" (63.5 mm)	12584-00	3.8 – 25.0oz	110 – 725 ml
2.5" (63.5 mm) HOT	12585-00	3.8 – 25.0oz	110 – 725 ml
3" (76.2 mm)	12586-00	5.4 – 36.0oz	160 – 1060 ml
3" (76.2 mm) HOT	12587-00	5.4 – 36.0oz	160 – 1060 ml



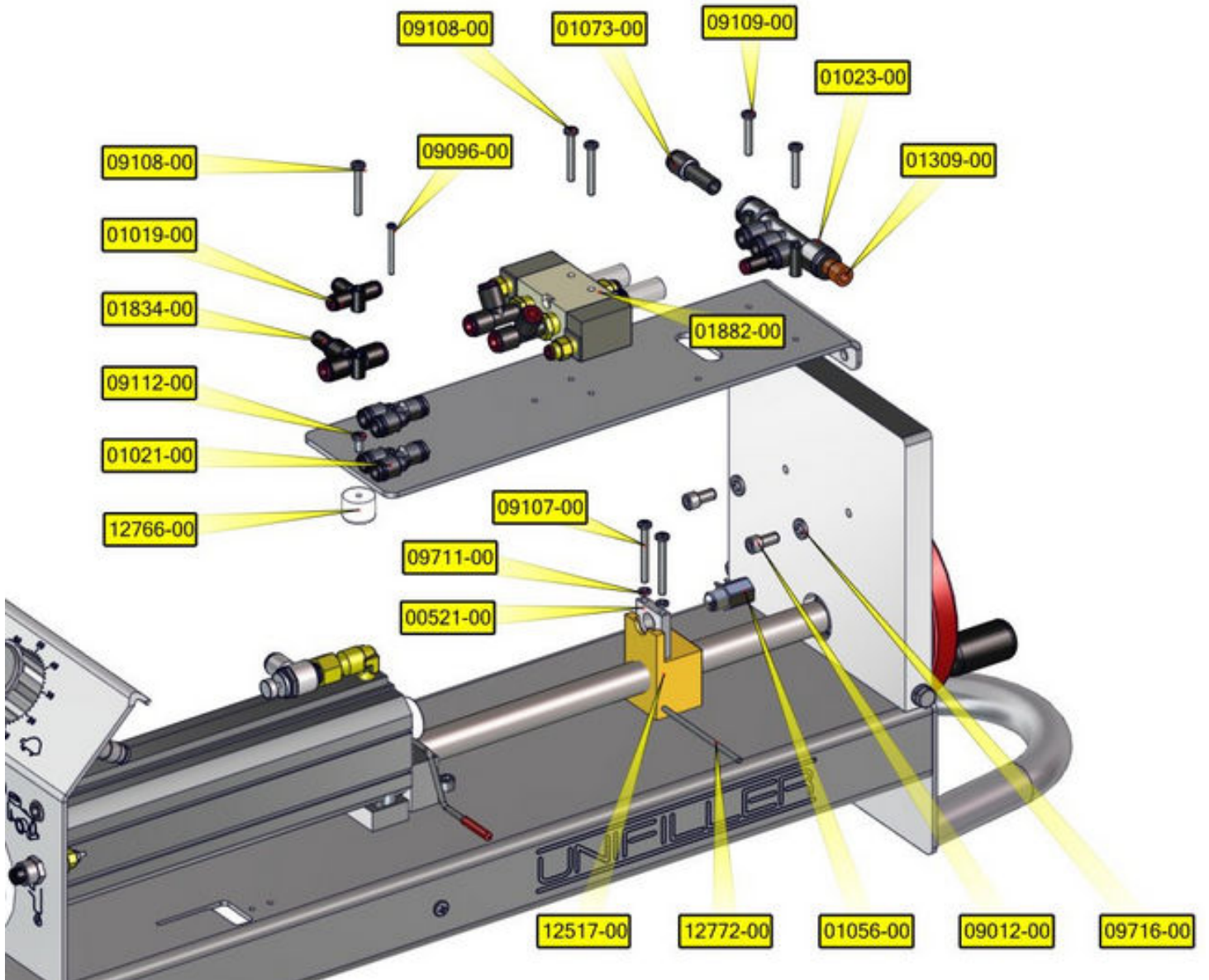
Parts Identification

It is highly recommended to carry a complete spare set of 'O' rings and seals, as these are vital to the accuracy of the machine.

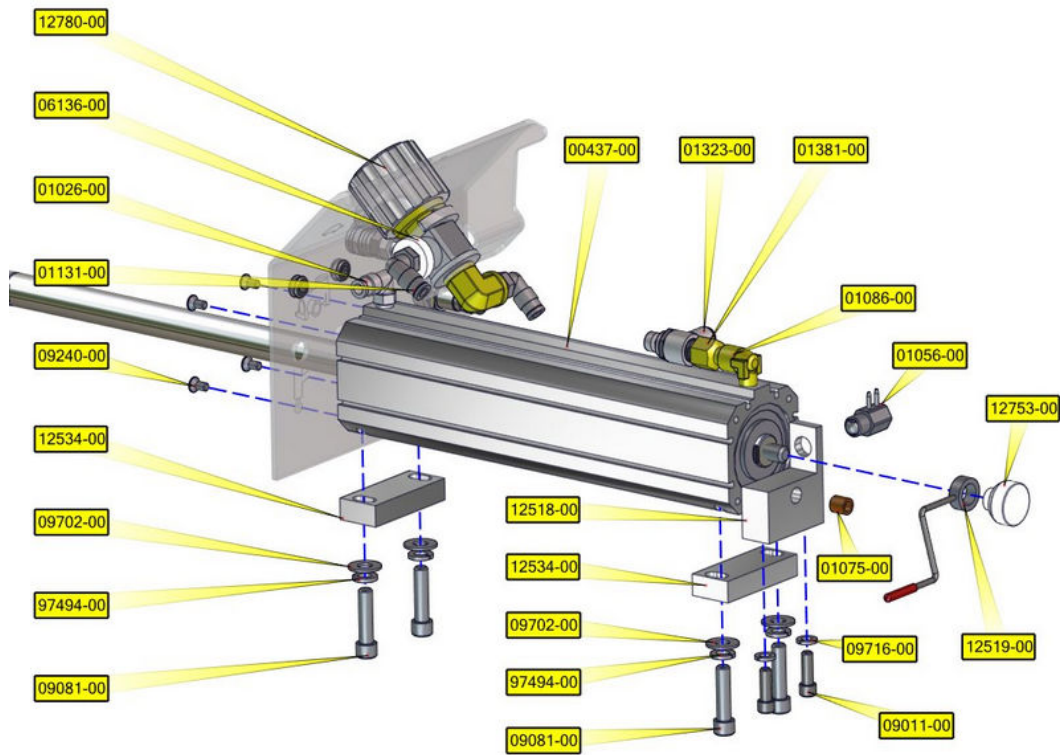
UNI Block



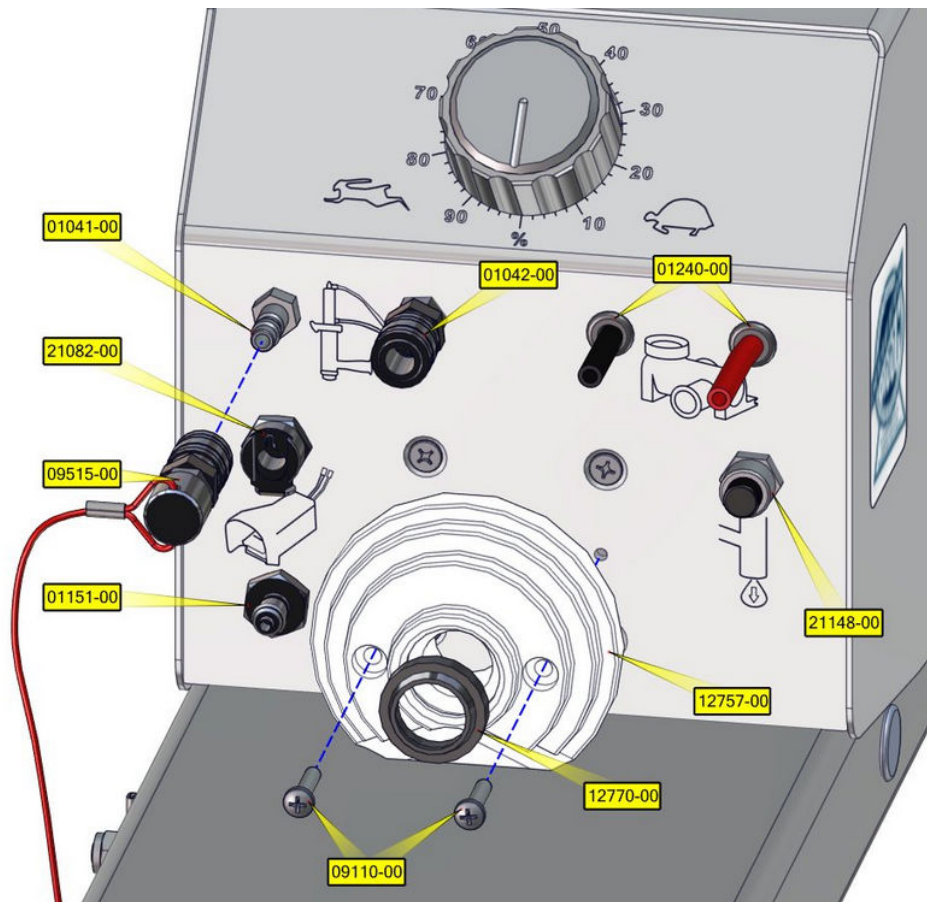
Pneumatic Components 1



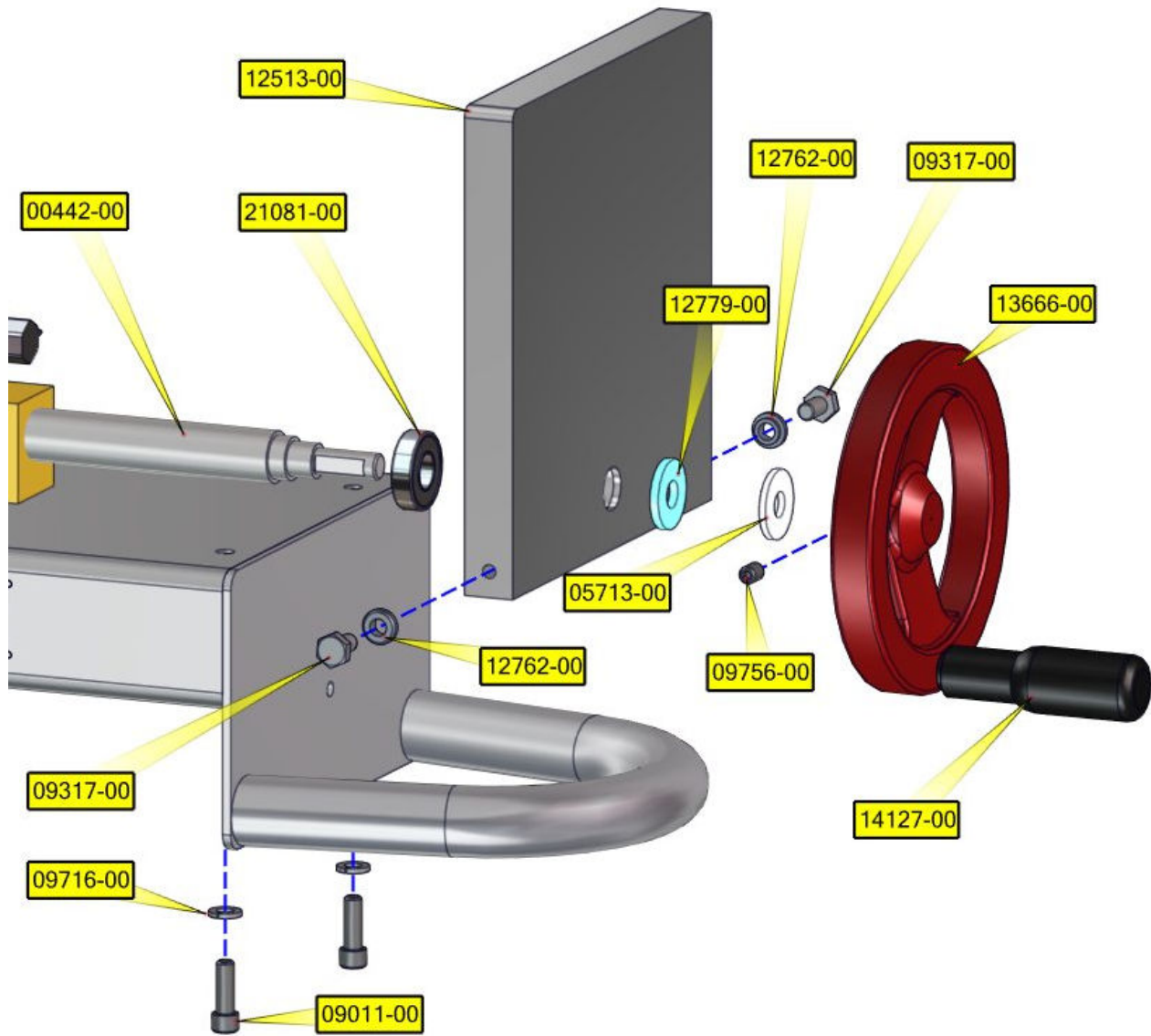
Pneumatic Components 2



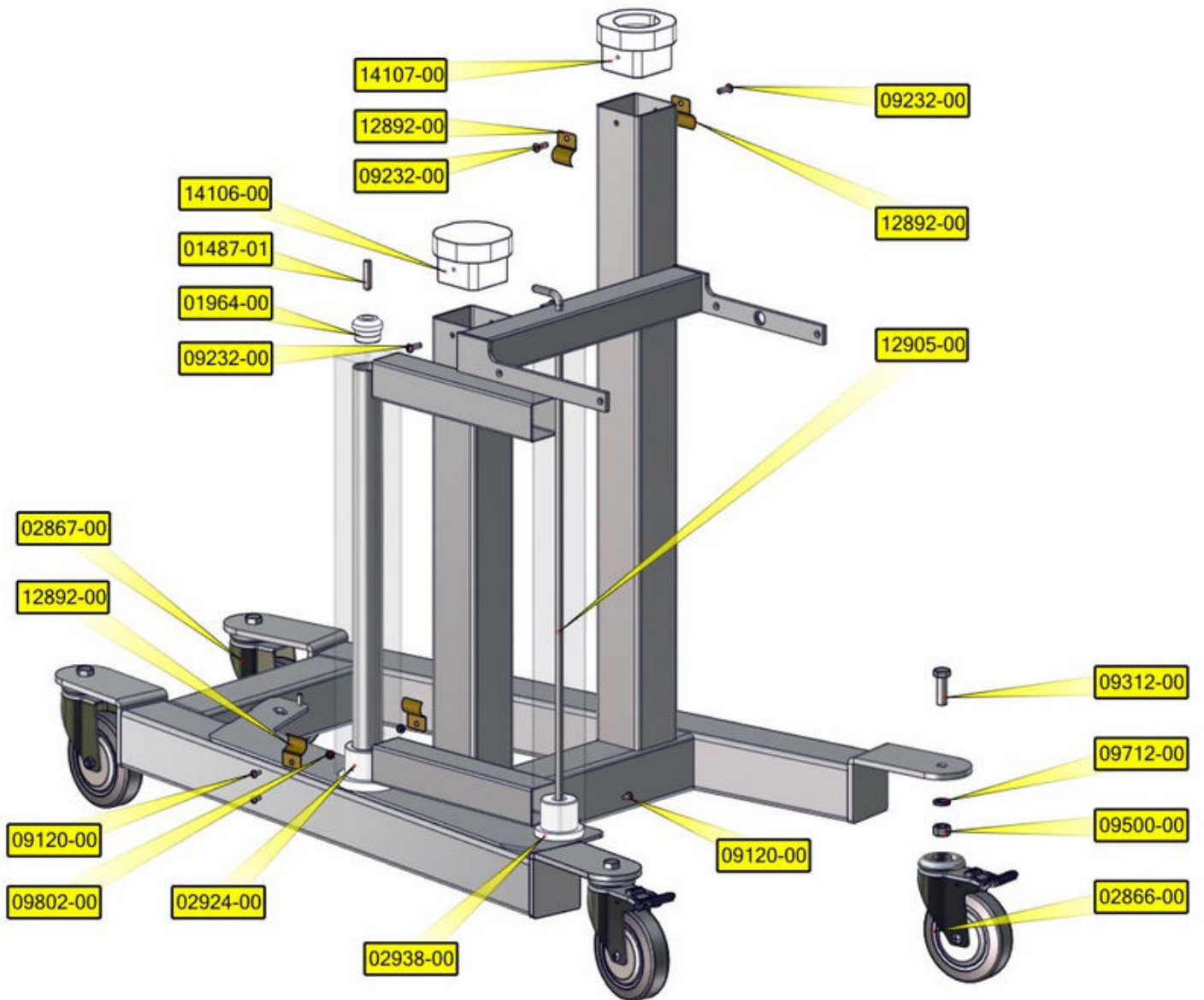
Front Pneumatic Components



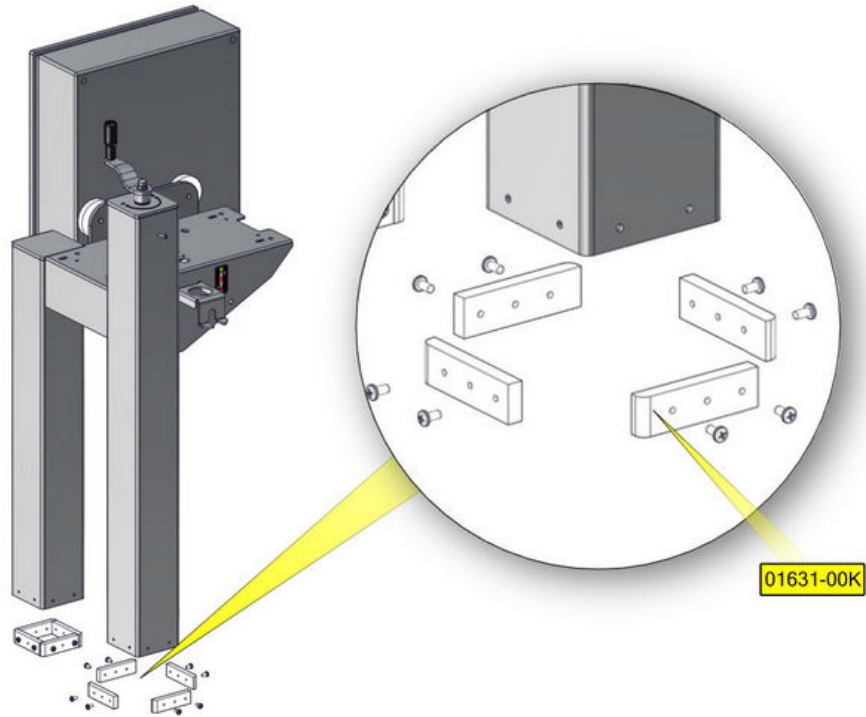
Volume Adjustment



Lower Frame



Upper Frame



Height Adjustment

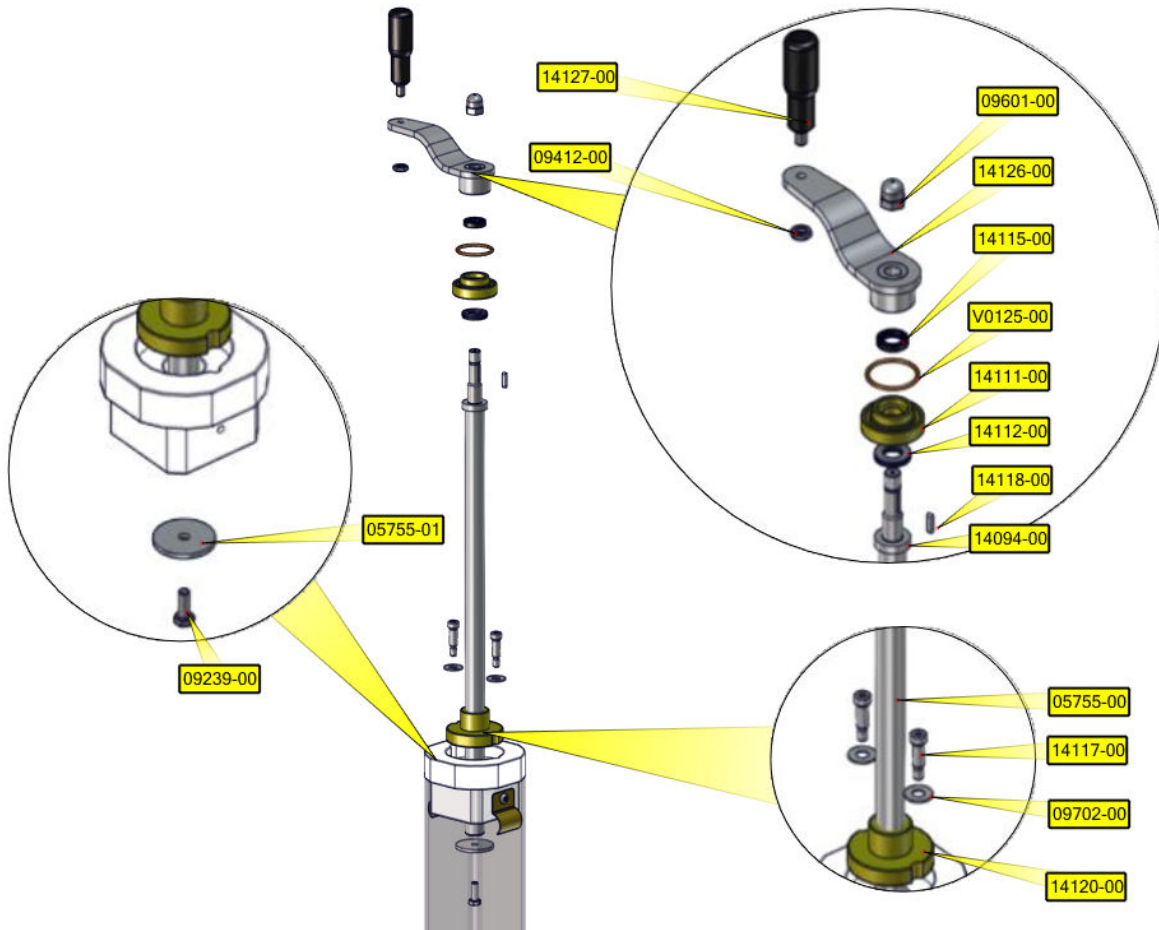


Table Parts 1

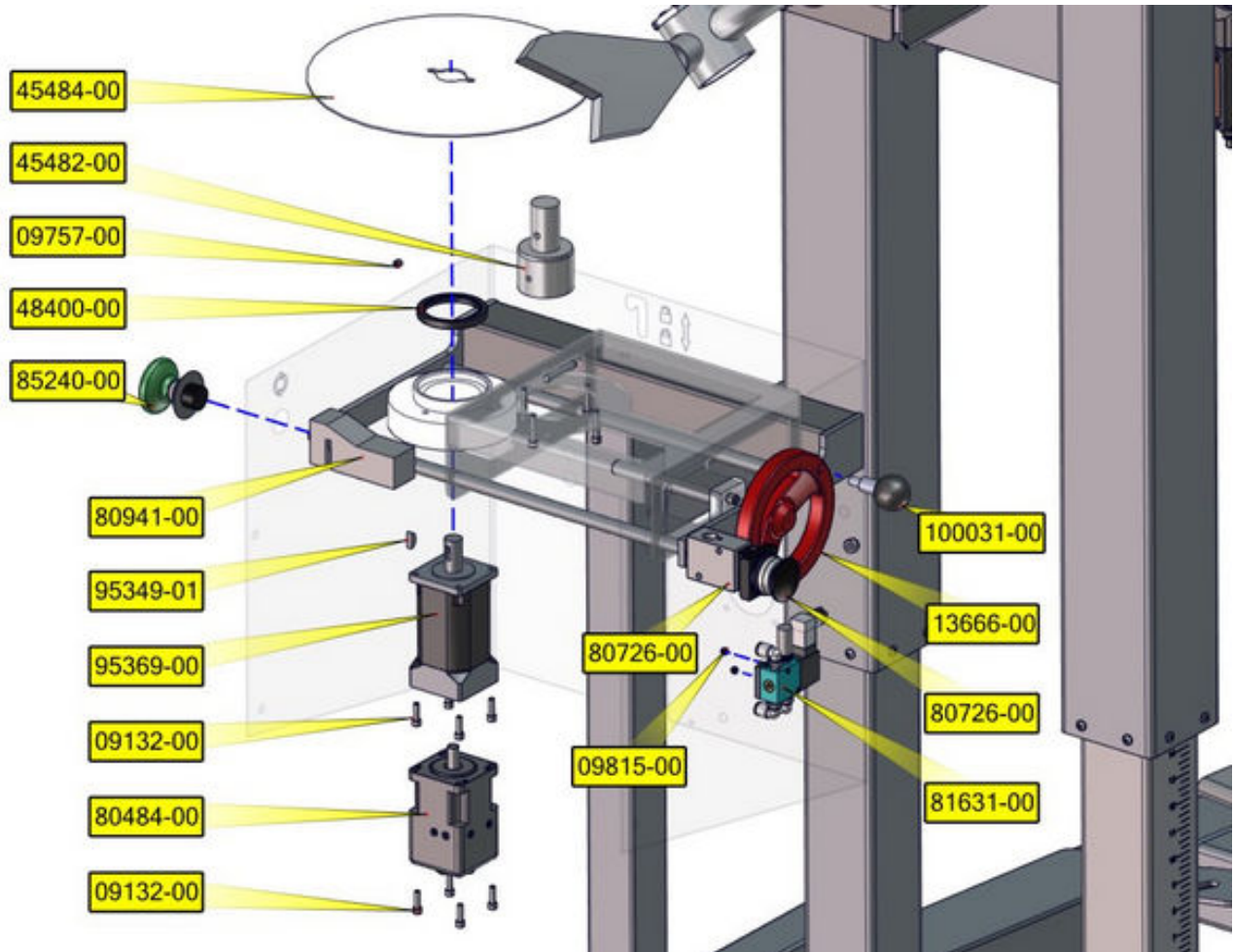


Table Parts 2

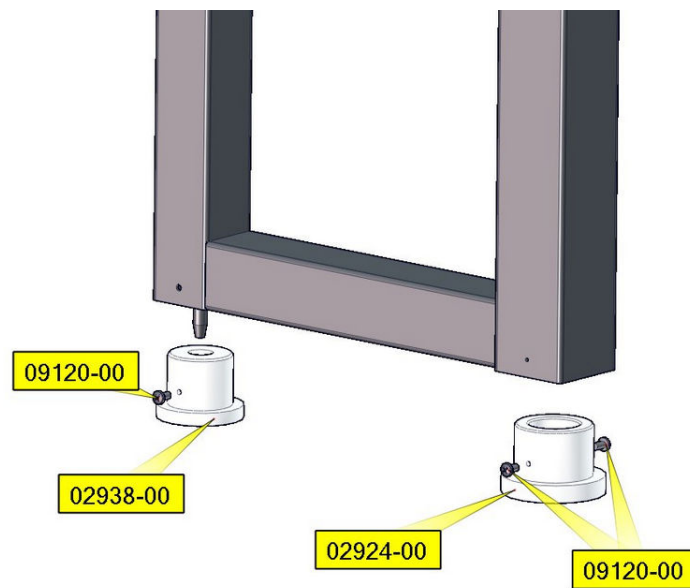
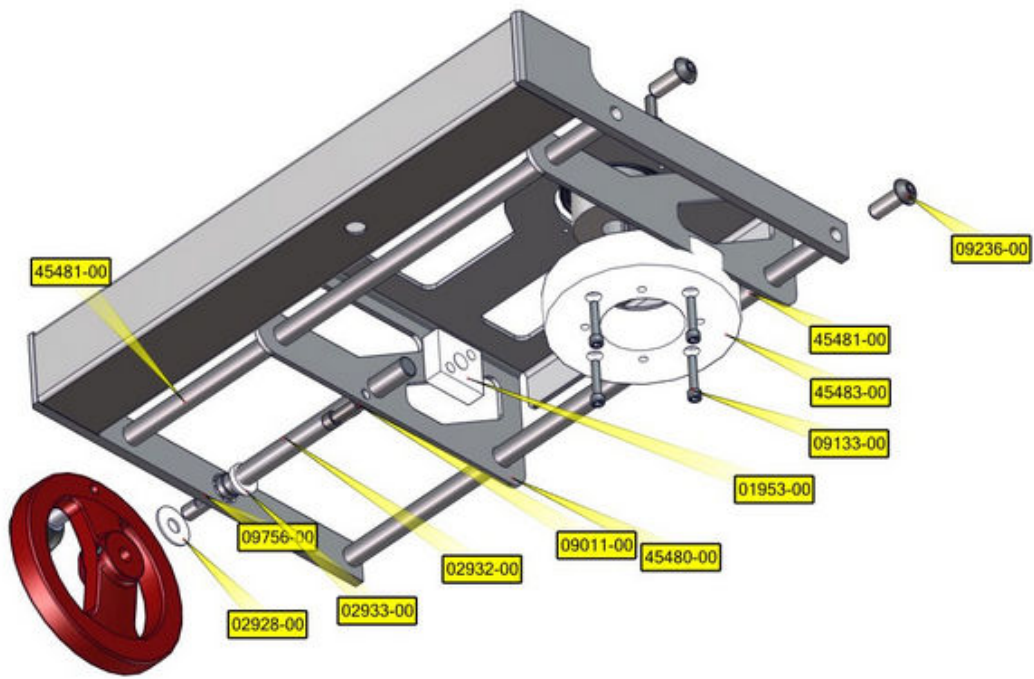
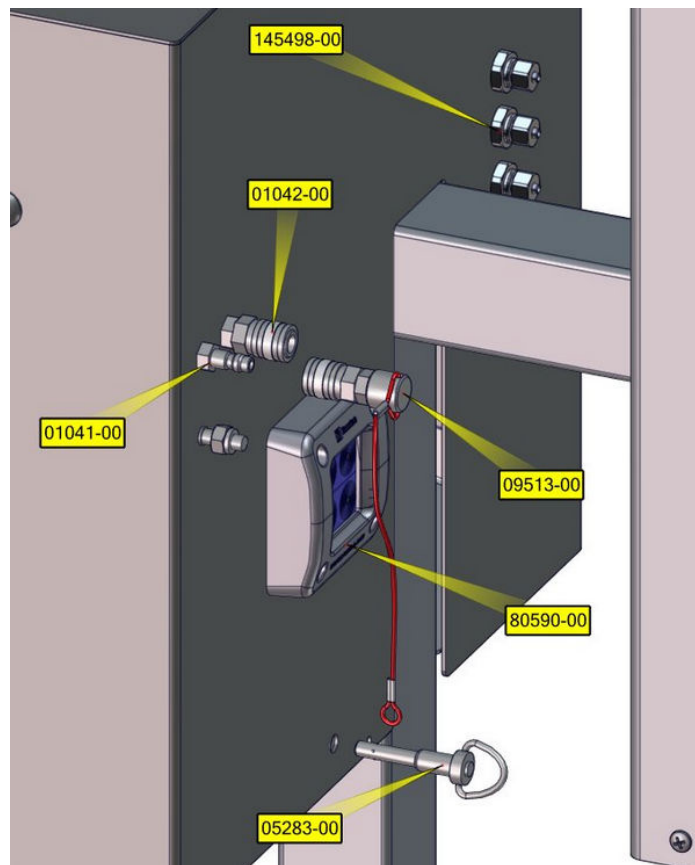


Table Parts 3

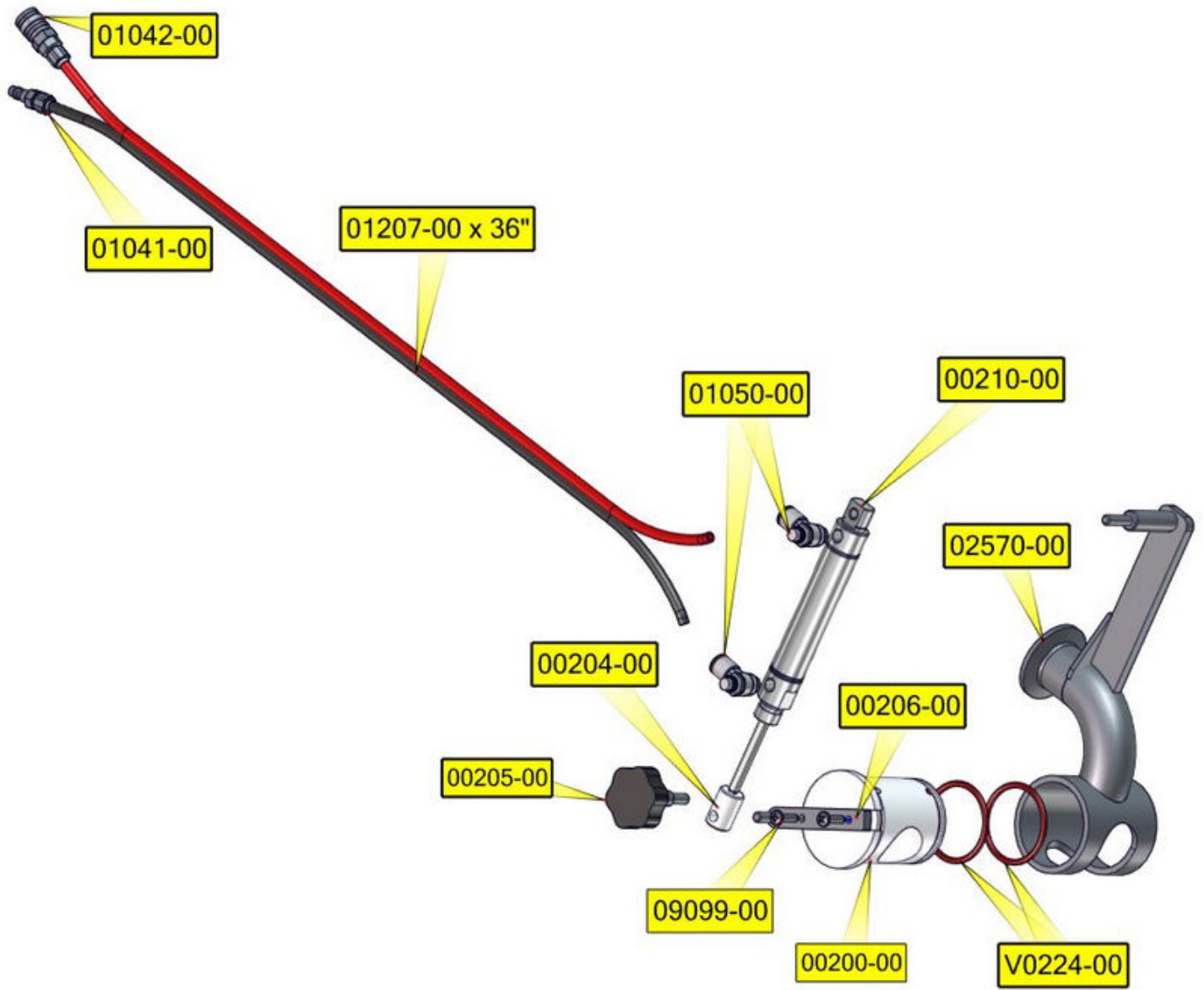


Rear Turntable



Rotary Swing Nozzle

Unifiller Pt# 002570-00

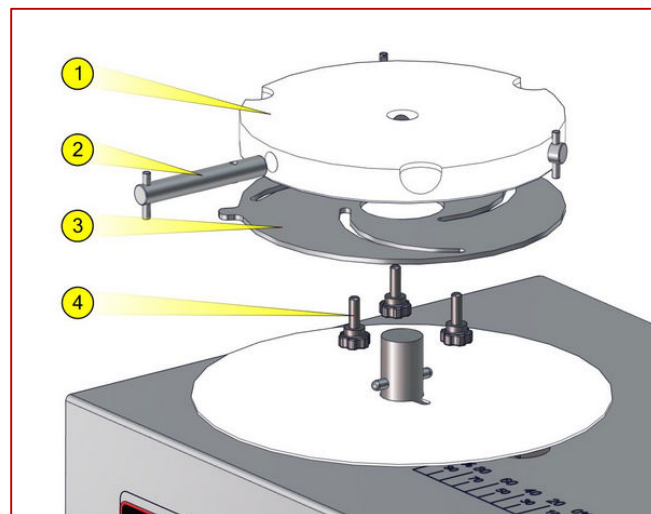


Servo Motor Repair Kits

Part number	Description
01983-00	Servo motor and 5 meter cable.(Stand alone depositor)
01985-00	Servo motor and 10 meter cable.(Cake line use)

Turntable

#	Small	Large
1	00921-01	00936-01
2	00922-00	00937-00
3	00925-00	00940-00
4	100030-00	100030-00



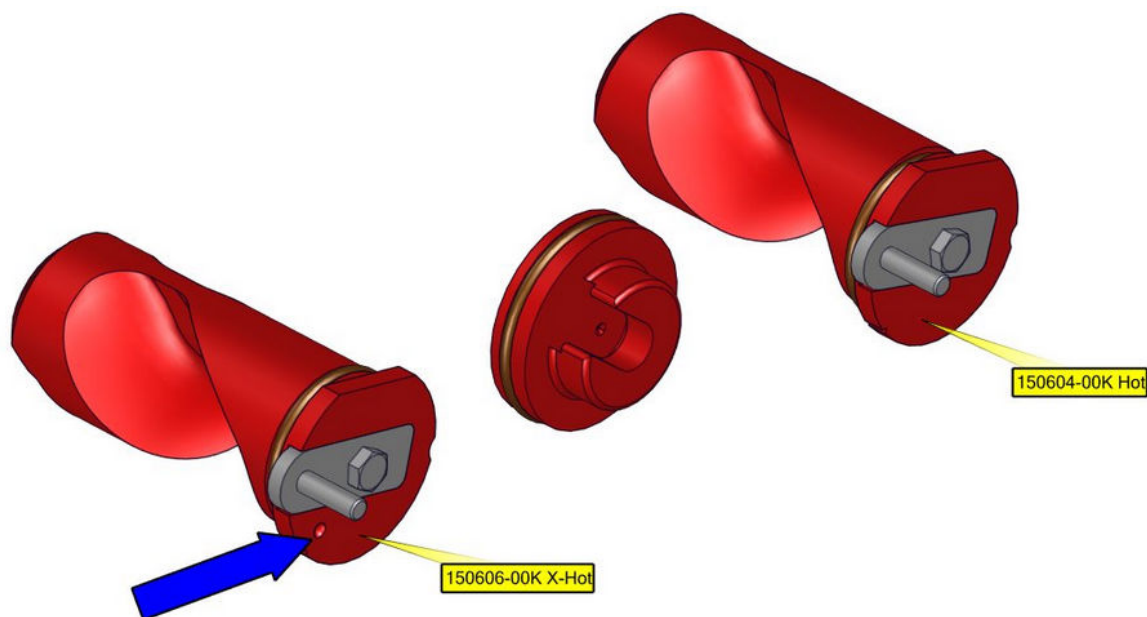
Depositing with Hot Product

The depositor is supplied with standard product piston and Safe-T-Valve, used for products up to 60°C/140°F.

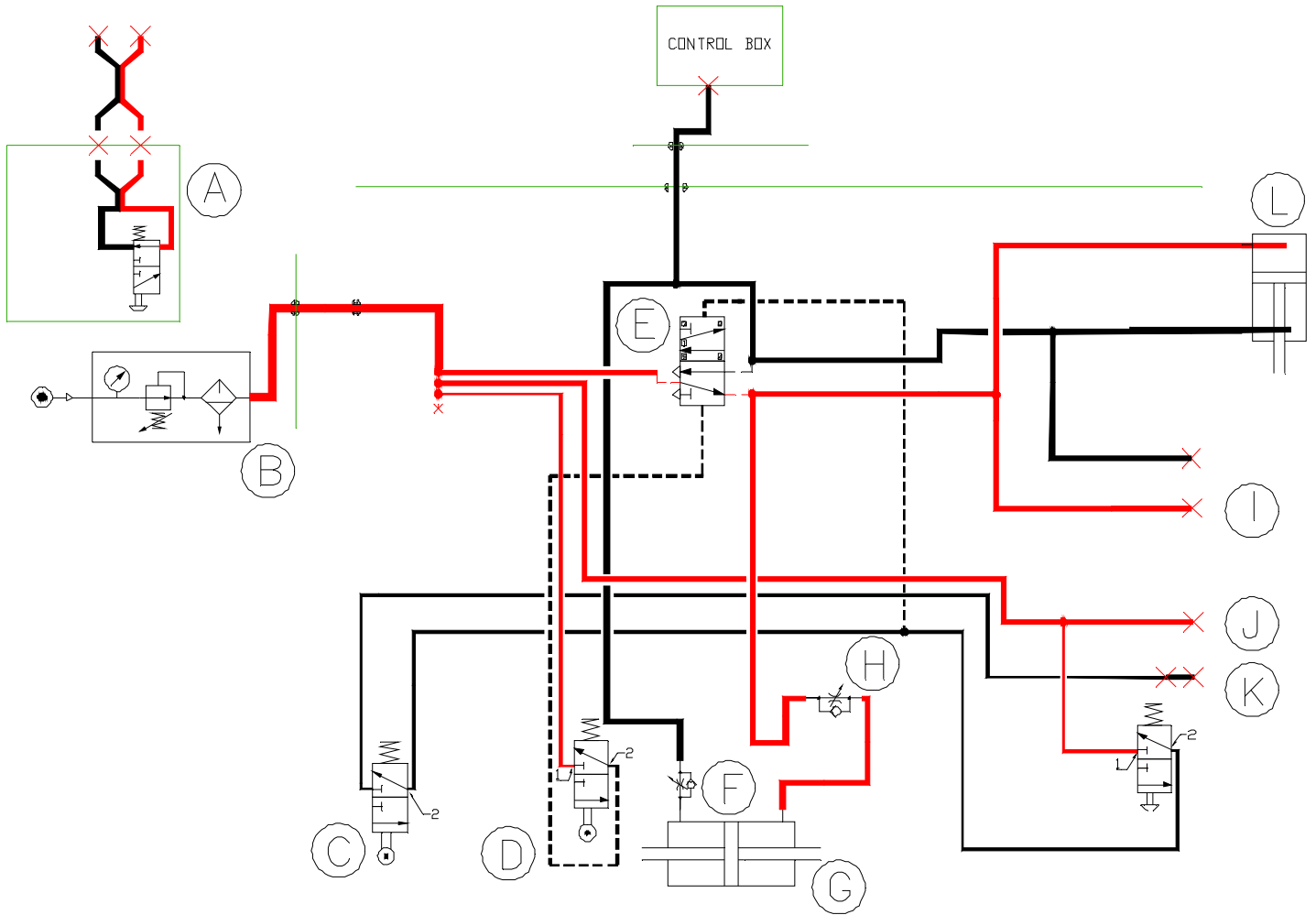
For products above 60°C/140°F and up to 82°C /180°F, a hot product piston and Safe-T-Valve should be used.

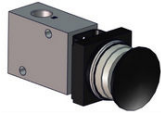

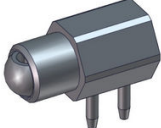
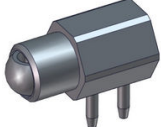
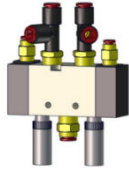

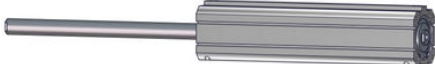
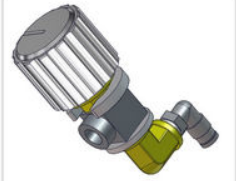
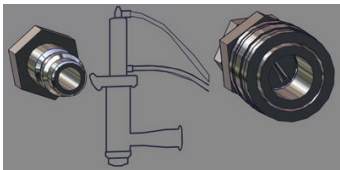
Contact Unifiller customer service for details.



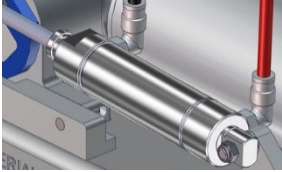
The “HOT” versions of both parts are red in color



Pneumatic schematic

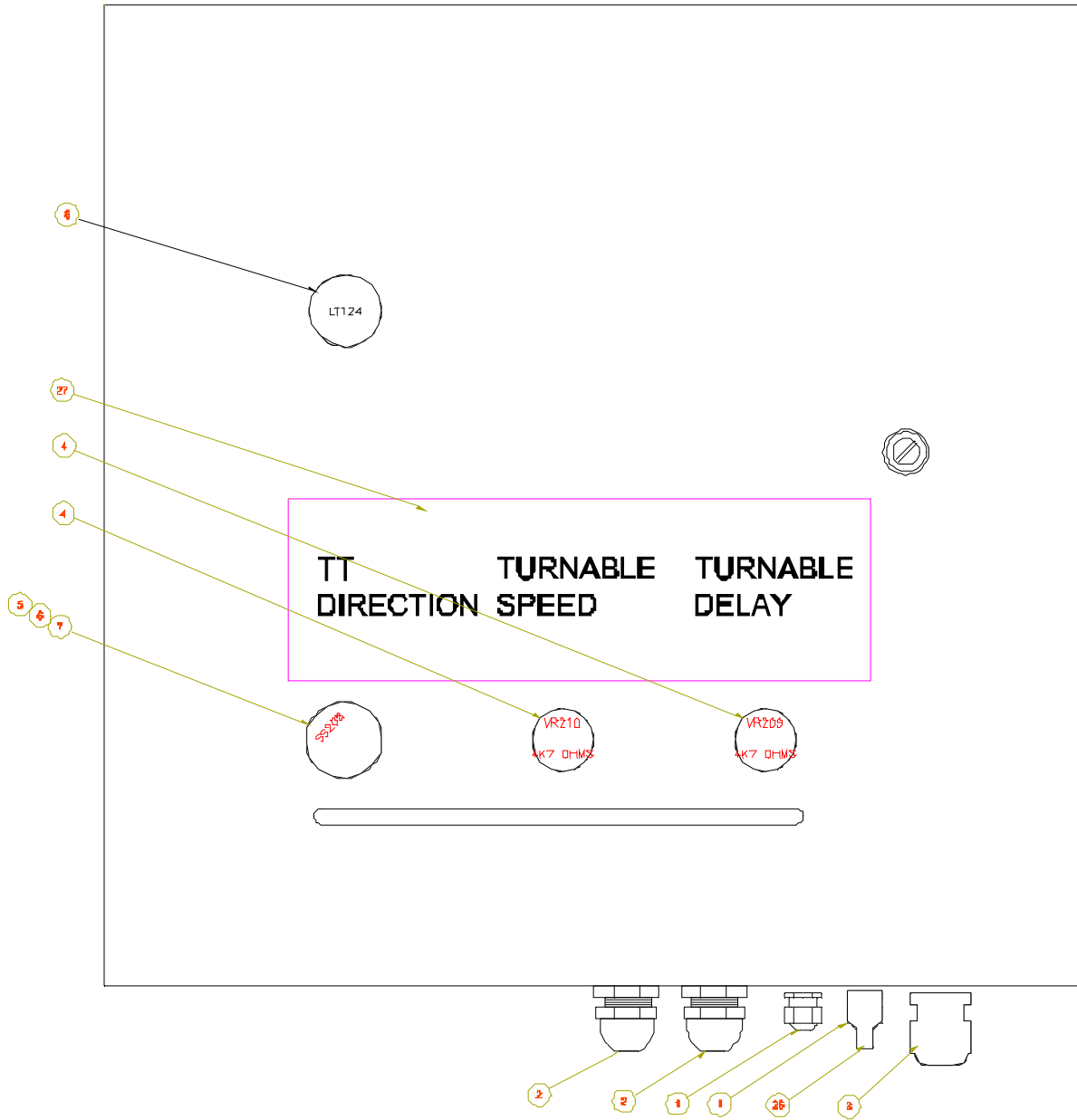


Item Key	Description	Diagram (May not look exactly as shown)	Part number
A	2 Way Valve		80726-00
B	Air Filter and Regulator		
C	Rear 2 Way valve		01056-00
D	Front 2 Way valve		01056-00
E	5 Way Valve		01882-00
F	Rear Flow control		01323-00
G	Main Air Cylinder		00437-00K
H	Front Flow control		12780-00
I	Accessories connection		

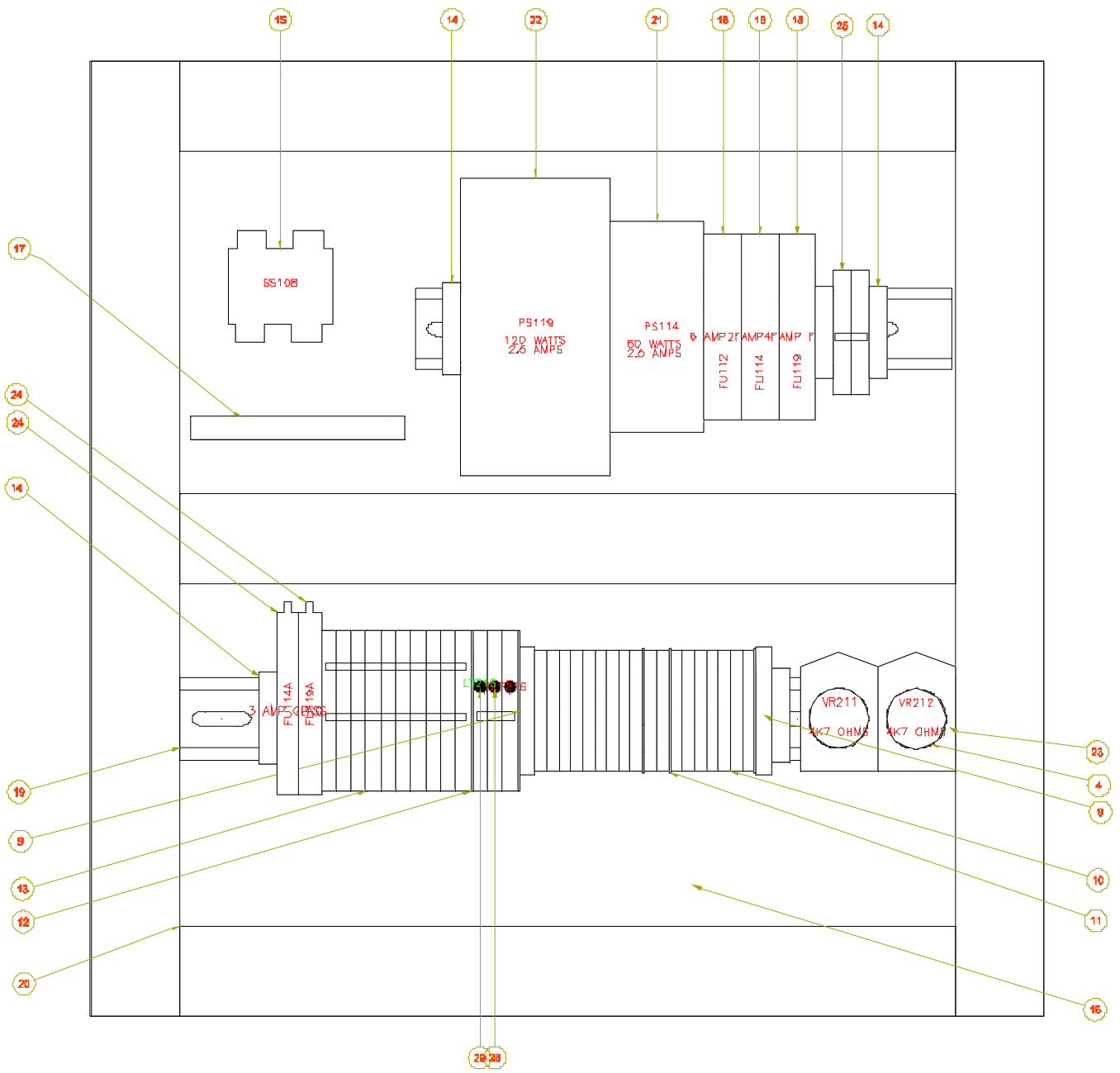
Item Key	Description	Diagram (May not look exactly as shown)	Part number
J	Foot Pedal signal connection		
K	Reset Button		21148-00
L	Safe T Valve Air cylinder		150607-00K

Control Panel layout

North America

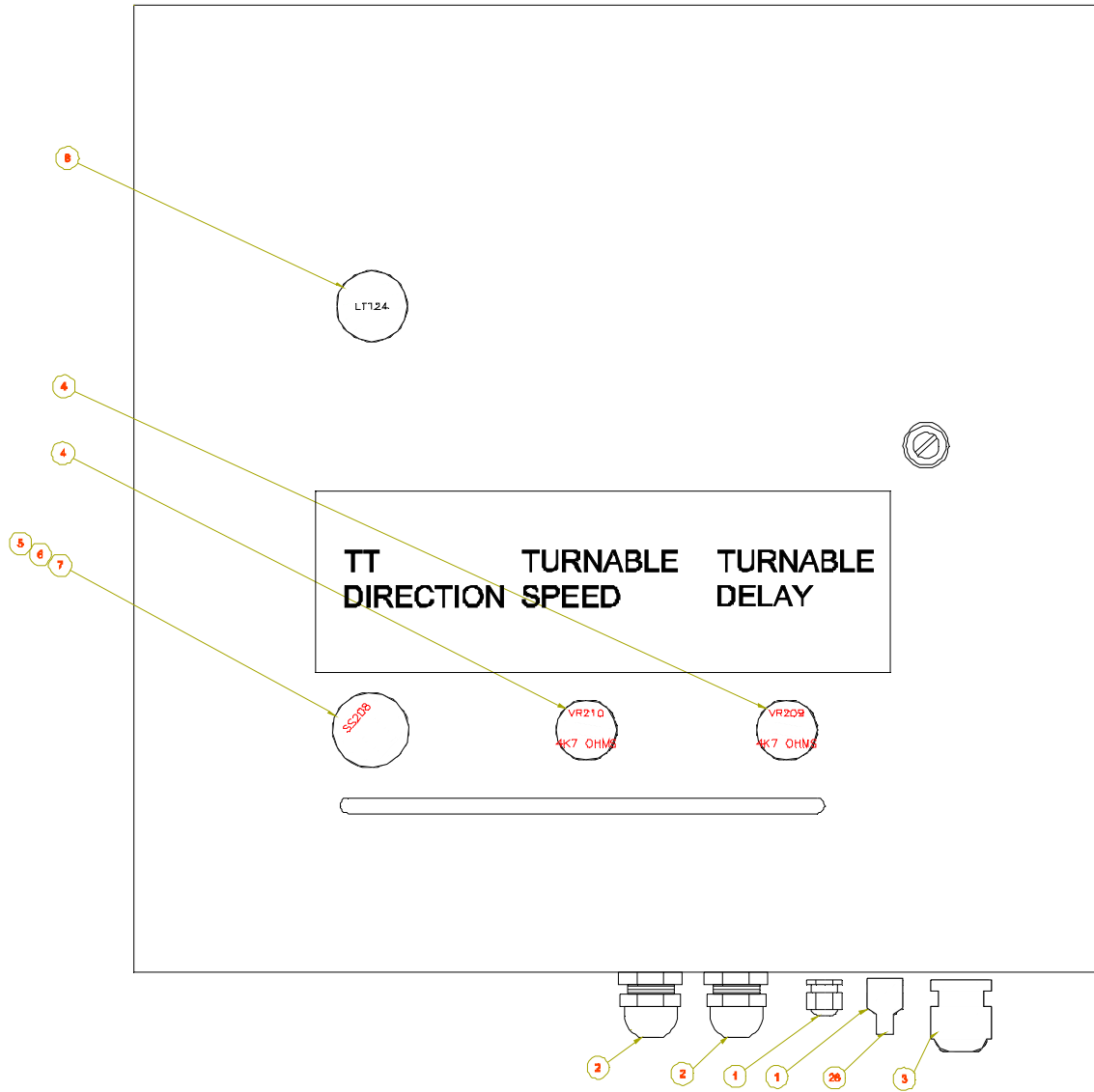


ITEM	QTY	CATALOG	DESCRIPTION
1	2	80153-00	ELECCOMP 1/4" STRAIN RELIEF
2	2	80135-00	ELECCOMP 3/8" STRAIN RELIEF
3	2	80137-00	ELECCOMP 1/2" STRAIN RELIEF
4	4	81130-00	ELECCOMP 4.7K OHM POT WATERTIGHT
5	1	80526-00	BUTTON CONTACT ELEMENT 1 NO
6	1	80525-00	BUTTON MOUNTING ADAPTER
7	1	80524-00	BUTTON SELECTOR 2 POSITION BLUE
8	1	80533-00	BUTTON PILOT LIGHT GREEN LED 24VDC
9	2	80668-00	ELECCOMP GROUND TERMINALS
10	18	80669-00	ELECCOMP TERMINAL BLOCKS
11	3	80770-00	ELECCOMP TERMINAL BLOCK END COVERS
12	2	80688-00	ELECOMP TERM BLK END PLATE 2 STACK
13	13	80687-00	ELECOMP TERMINAL BLK 2 STACK
14	5	81001-00	ELECCOMP DIN RAIL CLAMP FASTENERS
15	1	80776-00	FILTER POWER LINE EMI/RFI 6 AMPS
16	1	80311-00	ENCLOSURE 16X16X6 NEMA 4X SS
17	1	81383-00	ELECCOMP GROUND BAR CW SCREWS
18	3	81292-00	FUSE HOLDER DIN USM1I WITH INDICATR
19	2	80134-00	ELECCOMP DIN RAIL 2 METRE LENGTH
20	5	80568-00	CABLE DUCT TRAY 1.5"W X 2"H
21	1	80937-00	SUPPLY POWER 24VDC 2.5A 60W
22	1	80431-00	SUPPLY POWER 48VDC 2.5A
23	2	80542-00	BUTTON ADAPTER DIN RAIL MOUNT
24	2	81290-00	FUSE HOLDER WITH 24VDC INDICATR
25	2	80689-00	ELECOMP TERMINAL BLOCK AB J6
26	1	01259-00	AIRFTG COUPLER 1/4-F1/4NPT
27	1	11165-00	DECAL TOUCH UP MODE COM1000i
28	2	80543-00	ELECCOMP TERMINAL BLK INDICATOR RED
29	1	80544-00	ELECCOMP TERMINAL BLK INDICATOR GRN

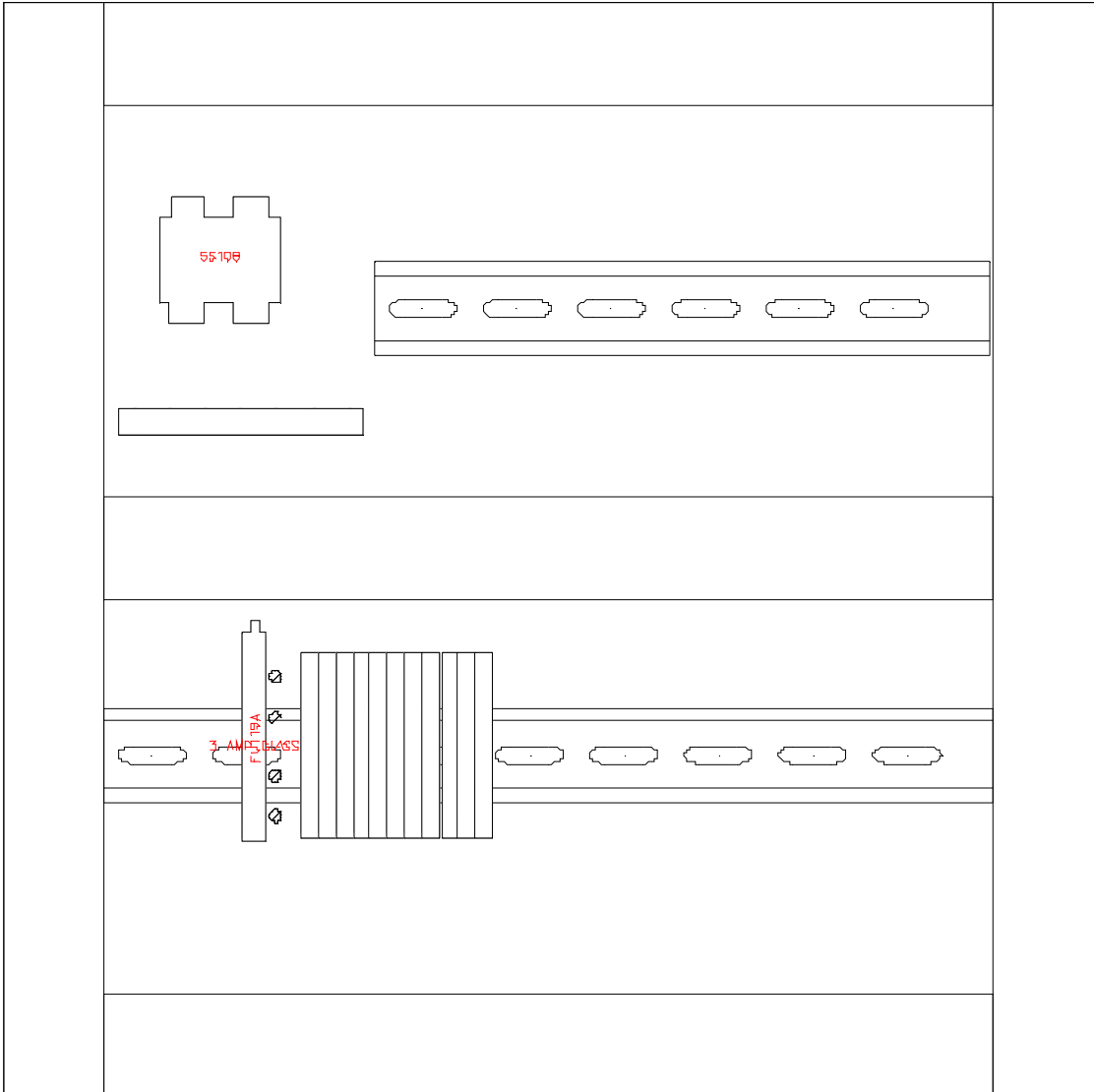


Control Panel layout

Europe

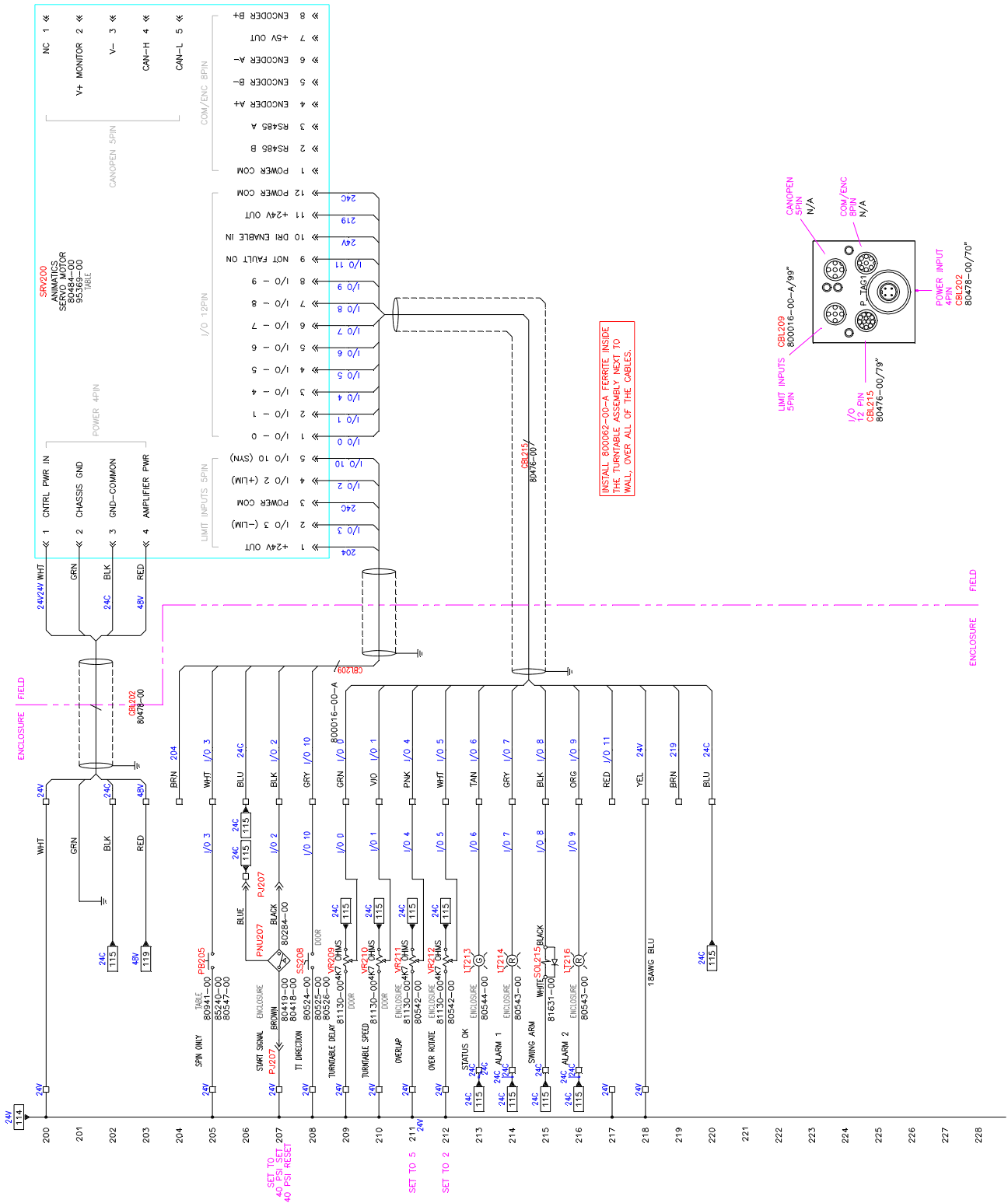


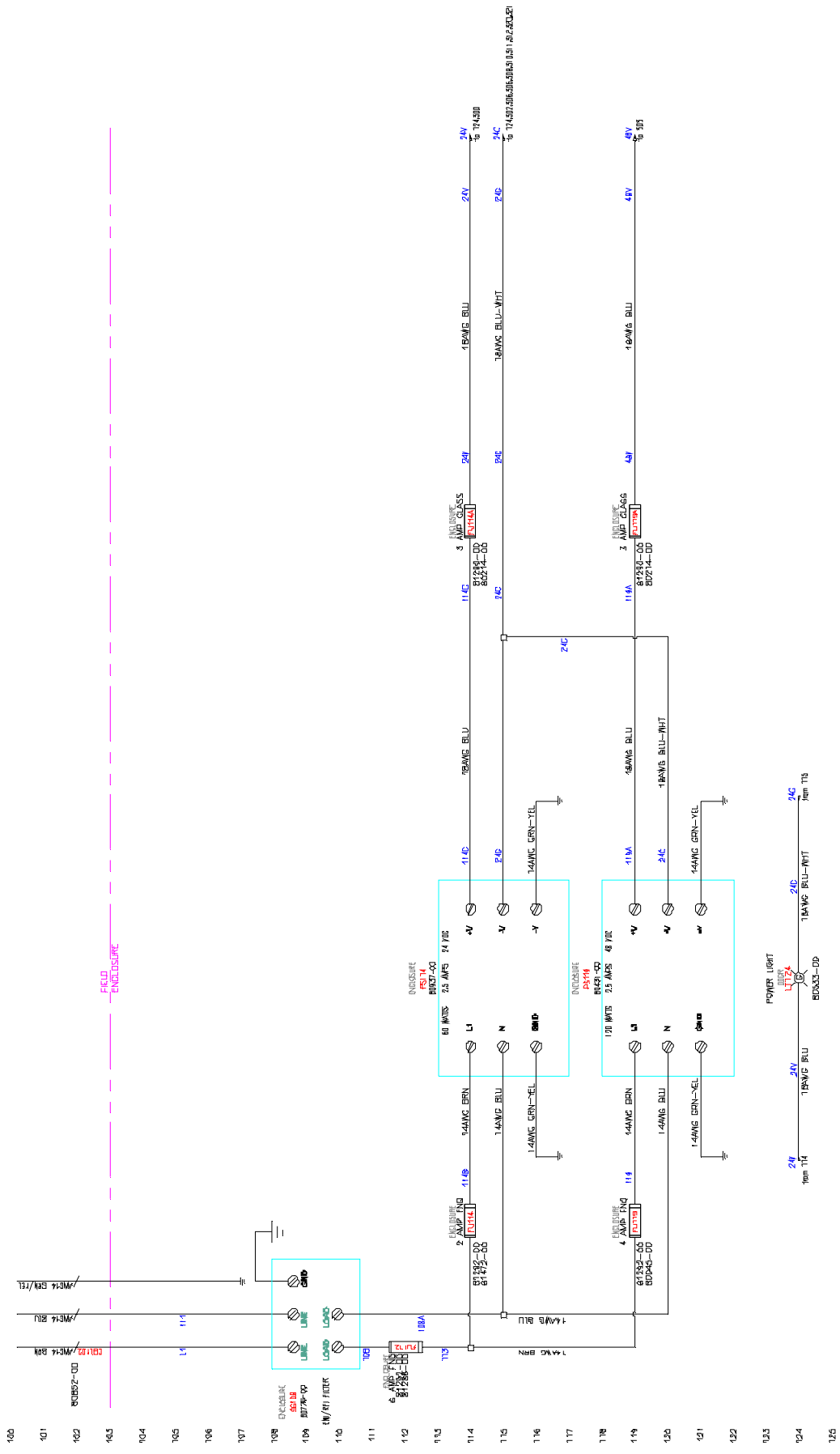
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11	3	80770-00	ELECCOMP TERMINAL BLOCK END COVERS
12	2	80688-00	ELECCOMP TERM BLK END PLATE 2 STACK
13	13	80687-00	ELECCOMP TERMINAL BLK 2 STACK
14	5	81001-00	ELECCOMP DIN RAIL CLAMP FASTENERS
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27	1	11165-00	DECAL TOUCH UP MODE COM1000i
28	2	80543-00	ELECCOMP TERMINAL BLK INDICATOR RED
29	1	80544-00	ELECCOMP TERMINAL BLK INDICATOR GRN



Electrical Schematic

220volt 1Ph 50Hz Europe





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Trouble Shooting

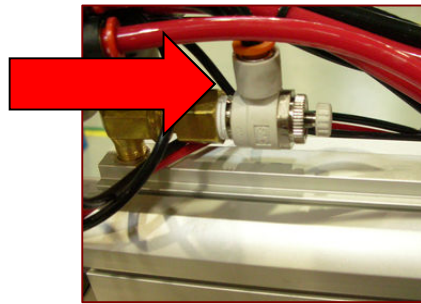
Mechanical

Problem	Cause	Remedy
Machine will not cycle.	Low air pressure.	Check air supply for correct operation. Also check pressure regulator setting 80 psi / 5.5 bar.
	Pilot valves have loosened from their mount bracket or are damaged.	Check pilot valves, ensure that they are secure. Replace if necessary.
	Incomplete piston stroke caused by solid object in product cylinder.	With Air off remove product cylinder and check for obstruction.
	Volume adjustment set too low.	Increase volume setting.
	Deposit speed set too low.	Adjust deposit speed.
	Kinked air lines.	Check air lines to make sure they are not kinked.
	Product being deposited is too hot.	Ensure product temperature does not exceed 140 deg F (60 deg C) unless HOT valves are in place.
	Red Uni block pin is not inserted.	Insert pin fully.
Hopper safety not inserted fully inserted.	Insert fully.	
Top cover open.	Ensure top cover is screwed tight.	
Problem	Cause	Remedy
Machine cycles but will not deposit.	Air quick connects are not secure.	Check that all air connections are securely attached.
	Uni valve is inserted incorrectly.	Remove clamp and align Uni valve with pin.
Machine does not finish cycle	Machine stops in forward position.	Check front pilot valve.
		Obstruction in product cylinder.
		Piston not installed on air cylinder correctly.

<p>Inconsistent deposits.</p>	<p>When starting to run continuously, the first deposits may be a little heavier than the rest, more so for aerated product.</p> <p>Deposit return speed too fast.</p> <p>Product piston O-ring worn or missing.</p> <p>Hopper is loose or beveled seal is missing.</p> <p>Air leakage past product piston or Uni valve.</p> <p>Deposit volume too large at minimum setting</p> <p>Deposit speed set too high.</p> <p>Fluctuating air supply pressure.</p> <p>Water build up in air lines and valves.</p> <p>Product leakage.</p> <p>Product. quality</p>	<p>Turn air off and remove supply line from machine before opening the cover. Adjust piston return speed control to slow down back stroke. See page 50</p> <p>Replace the O-ring.</p> <p>Check that the beveled seal is in place and is not damaged. Re-tighten hopper nut.</p> <p>Replace O-ring.</p> <p>Install smaller product cylinder.</p> <p>Reduce deposit speed.</p> <p>Check setting of air regulator/water filter.</p> <p>Drain air compressor regularly to remove build up of water.</p> <p>Check for correct valves (Hot or Cold).</p> <p>Supply smooth product mix.</p>
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Problem	Cause	Remedy
Product leakage.	Clamps are not tight. Product piston or Uni valve O-rings are worn or damaged.	Check that all clamps are tight. Replace O-rings.
Product splashes.	Deposit speed set too fast.	Decrease deposit speed.
Machine Blockage	Product stuck at neck of Hopper.	Disconnect air, and remove Hopper safety pin. Remove Hopper and clear obstruction. Do not use any object to clear obstruction that can damage components.

Piston return speed control. This is a factory setting and should not normally need to be adjusted. (See trouble shooting section under inconsistent deposits).



Electrical

Problem	Cause	Solution
No power (Green power light is not lit) on the control panel.	No power to machine.	Make sure the machine is plugged in and turned on.
		Make sure the plug has power.
		Have a technician open the electrical enclosure and check fuses. They will be lit if they need to be replaced.
Turntable does not spin a full 360 degrees.	Motor speed is too fast.	Check to make sure the motor spins fine when the “Spin only” button is pressed: If it spins ok, decrease the speed of the depositor so that the motor can keep up. If it does not spin well with the “Spin only” button, proceed to the motor problem steps below. Check LED Fault code inside electrical enclosure and refer to the LED section below.
	Feedback sensor problem.	Have a technician check the feedback sensor to make sure it stays on for the full depositor stroke. If it does not, replace the feedback sensor.
	Motor is mechanically binding.	Have a technician check if the motor and gear box spin freely. Check LED Fault code inside electrical enclosure and refer to the LED section below.
	Servo motor has failed	Call Unifiller to talk to customer service and have the motor replaced. Check LED Fault code inside electrical enclosure and refer to the LED section below.

Problem	Cause	Solution
Turntable does not spin when "Spin only" button is pressed.	No Power to the servo motor.	Use the no power troubleshooting above and check to make sure the motor has power. Check to make sure the lights are lit on the side of the servo motor.
	Machine is stuck in a cycle.	Power off the machine and back on again and make sure the depositor can cycle in less than 10 seconds.
	Motor is mechanically binding.	Have a technician check if the motor and gear box spin freely.
	"Spin only" button problem.	Have a technician check the wiring and integrity of the "Spin only" button.
	Servo Motor has faulted or failed.	Check LED Fault code inside electrical enclosure and refer to the LED section below. Call Unifiller to talk to a technician and have the motor replaced.

Problem	Cause	Solution
Turntable does not spin when the depositor is triggered.	No feedback air.	Check to make sure the depositor cycles and the feedback air is connected to the depositor base and working.
	Feedback sensor problem.	Check to make sure the motor spins when the “Spin only” button is pressed: If it spins OK, continue on to the next step below. If it does not spin well with the “Spin Only“ button, skip the next step and proceed to check the motor in the steps below.
		Have a technician check the feedback sensor to make sure it stays on for the full depositor stroke. If it does not, adjust or replace the feedback sensor.
	No power to the servo motor.	Use the no power troubleshooting above and check to make sure motor has power. Check to make sure lights are lit on the side of the servo motor.
	Motor is mechanically binding.	Have a technician check if the motor and gear box spin freely.
	Servo motor has faulted or failed.	Check LED Fault code inside electrical enclosure and refer to the LED section below. Call Unifiller to talk to a technician and have the motor replaced.

Problem	Cause	Solution
Turntable does not spin when the depositor is triggered.	No feedback air.	Check to make sure the depositor cycles and that the feedback air (red and black air lines from table) are connected to the depositor base and working.
	Feedback sensor problem.	Check to make sure the motor spins fine when the “Spin only” button is pressed: If it spins OK, continue on to the next step below. If it does not spin well with the “Spin only” button, skip the next step and proceed to check the motor in the steps below.
		Have a technician check the feedback sensor to make sure it stays on for the full depositor stroke. If it does not, replace the feedback sensor.
	No power to the servo motor.	Use the no power troubleshooting above and check to make sure motor has power. Check to make sure lights are lit on the side of the servo motor.
	Motor is mechanically binding.	Have a technician check if the motor and gear box spin freely.
	Servo motor has faulted or failed.	Check LED Fault code inside electrical enclosure and refer to the LED section below. Call Unifiller to talk to a technician and have the motor replaced.

LED Diagnostics

Green LED	Red LED	Red LED	Meaning	Solution
ON	OFF	OFF	Motor is ready Motor is not in move Motor is not faulted	Normal Idle State
OFF	OFF	OFF	Motor is in Move	Normal Running State
			Motor is not powered	Check Power to the machine Check all fuses Replace motor if it has failed
OFF	ON	1 Blink	Motor is faulted: Over Current Error	The Motor is drawing too much current likely due to working too hard. Slow the Deposit Speed down, reduce the Spin Delay, or decrease the Overlap. Make sure the turntable is clear and moves freely when the machine is powered off. Make sure Gearbox moves freely and check for water/contamination if it is tight or noisy. Make sure the cake is not too heavy and the product diameter is not excessive. Contact Unifiller Customer Service to replace the Motor.
OFF	ON	2 Blinks	Motor is faulted: Excessive Position Error	The Motor cannot keep up to the demanded speed or position. See Troubleshooting for 1 blink
OFF	ON	3 Blinks	Motor is faulted: Over Temperature Error	The Motor is too Hot. Let the motor cool down. See Troubleshooting for 1 blink
OFF	ON	4 Blinks	Motor is faulted: Velocity Error	The Motor cannot keep up to the demanded speed or position. See Troubleshooting for 1 blink

Green LED	Red LED	Red LED	Meaning	Solution
OFF	ON	5 Blinks	Motor is faulted: Syntax Error	The program is corrupt. The motor will need to be replaced or reprogrammed. Contact Unifiller Customer Service
OFF	ON	6 Blinks	Motor is faulted: Program Checksum Error	The program is corrupt. The motor will need to be replaced or reprogrammed. Contact Unifiller Customer Service

Note: Faults can be reset by pressing and holding the green Spin Only button on the table for 5 seconds or by powering down the machine and powering back up again. Resetting faults will not fix an issue; the problem should still be diagnosed and rectified by a technician.

EC Self Declaration Of Conformity Example

Manufacture: Der Hersteller: la Fabrication	Unifiller Systems Inc. 7621 MacDonald Road, Delta, B.C, Canada, V4G 1N3
Name and address of the person authorised to compile the technical file: Name und Anschrift der Person, die bevollmächtigt, die technischen Unterlagen zusammenzustellen: Nom et adresse de la personne autorisée à constituer le dossier technique:	Unifiller Systems UK Ltd. Unit 6 Chieftain Business Center, Morris Close Park Farm, Wellingborough Northants NN8 6XF United Kingdom
Description and identification of the machinery: Beschreibung und Identifizierung der Maschine : Description et identification de la machine:	Food Machine
Model Name(s):	
Model Number(s):	
Serial Number(s):	
Hereby declare that this machine complies with the essential health and safety requirements of:- erklärt hiermit, dass dieses Gerät mit den grundlegenden Sicherheits- und Gesundheitsschutzanforderungen der folgenden Richtlinien und Verordnungen übereinstimmt: - Déclarons que cette machine est conforme aux exigences de santé et de sécurité essentielles	

Machinery Directive 2006/42/EC
Regulation (CE) No. 1935/2004, Regulation (EU) No. 10/2011, Regulation (EC) No. 2023/2006

And further conform to the following Standards: Angewandte harmonisierte Normen nach Artikel 7 Absatz 2: Et encore se conformer aux normes suivantes :

EN ISO 12100:2010

UNIFILLER SYSTEMS INC.

Done at Delta, B.C.

Signed: _____

Title/Titel: _____

Authorized Signatory

Angaben zur Person, die zur Ausstellung dieser Erklärung im Namen des Herstellers oder seines Bevollmächtigten bevollmächtigt ist, sowie Unterschrift dieser Person.

Date: JUNE, 2015

Sound Level Measurement

All sound level readings taken at 1m from the front of the machine and 1.6m from the floor level. All readings are “A” weighted emission sound pressure level.

Machine	Sound level dB
Compact Depositor	79.4
Uni1000i	75.2
Pro 1000i	75.2
Pro 2000	78.7
Spot	87.5
XL2	81
COM Servo	75.2
Deco Mate	78.0
Hopper Topper	72.0
Hopper Topper Max	83.5
Multi	87
iSpot	87.5
ELF	79.4