



Equipment Type: Dispensing Unit

Model: **ZETA-2000S**

Electrical Requirements: 110 / 220 Volts

Frequency: 50 / 60 Hz

Bottle Capacity (4) 500ml Bottles

Flow Rate: 1.2~90ml/min

Manual Revision Date: April 18, 2023



ZETA-2000S Dispensing Unit



INSTRUCTION MANUAL

3601 E. 34th St. Tucson, AZ 85713 USA Tel. +1-520-882-6598 Fax +1-520-882-6599 email: pace@metallographic.com Web: <https://www.metallographic.com>



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WARRANTY

Terms and Conditions applying to all PACE Technologies Products

1. LIMITED WARRANTY AND DISCLAIMER:

PACE Technologies Products are warranted for two years from the purchase date to be free from defects in material and workmanship under correct use, normal operating conditions, and proper application. PACE Technologies obligation under this warranty shall be limited to the repair or exchange, at PACE Technologies option, of any PACE Technologies Product or part which proves to be defective as provided herein. PACE Technologies reserves the right to either inspect the product at Buyer's location or require it to be returned to the factory for inspection. Buyer is responsible for freight to and from factory on all warranty claims. The above warranty does not extend to goods damaged or subjected to accident, abuse or misuse after release from PACE Technologies warehouse, nor goods altered or repaired by anyone other than specifically authorized PACE Technologies representatives. PACE Technologies shall not in any way be responsible for the consequences of any alteration, modification or misuse unless previously approved in writing by an officer of PACE Technologies.

Note: Corrosion is considered a maintenance issue and not a warranty issue.

- i PACE TECHNOLOGIES MAKES NO EXPRESS WARRANTIES OTHER THAN THOSE WHICH ARE SPECIFICALLY DESCRIBED HEREIN. Any description of the goods sold hereunder, including any reference to Buyer's specifications and any description in catalogs, circulars and other written material published by PACE Technologies, is the sole purpose of identifying such goods and shall not create an express warranty that the goods shall conform to such description.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. THIS WARRANTY STATES PACE TECHNOLOGIES ENTIRE AND EXCLUSIVE LIABILITY AND BUYER'S EXCLUSIVE REMEDY FOR ANY CLAIM FOR DAMAGES IN CONNECTIONS WITH PACE TECHNOLOGIES PRODUCTS. PACE TECHNOLOGIES WILL IN NO EVENT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, NOR FOR ANY SUM IN EXCESS OF THE PURCHASE PRICE.

2. LIABILITY CAP:

PACE Technologies maximum aggregate liability for loss and damage arising under, resulting from or in connection with the supply or use of the Equipment and Consumables provided under this purchase, or from the performance or breach of any obligation (s) imposed hereunder, whether such liability arises from any one or more claims or actions for breach of contract, tort, (including negligence), delayed completion, warranty, indemnity, strict liability or otherwise, unless otherwise limited by the terms hereof, shall be limited to one hundred percent (100%) of the purchase price.

3. DELIVERY:

Customer assumes and shall bear the risk of all loss or damage to the Products from every cause whatsoever, whether or not insured, and title to such Products shall pass to Customer upon PACE Technologies delivery of the Products to the common carrier of Pace Technologies choice, or the carrier specified in writing by Customer, for shipment to Customer. Any claims for breakage, loss, delay, or damage shall be made to the carrier by the Customer and Pace Technologies will render customer reasonable assistance in prosecuting such claims.

4. ACCEPTANCE:

Customer shall inspect the Products promptly upon receipt of delivery. Unless customer objects in writing within thirty (30) business days thereafter, customer shall be deemed to have accepted the Products. All claims for damages, errors, or shortage in Products delivered shall be made by Customer in writing within such five (5) business day period. Failure to make any claim timely shall constitute acceptance of the Products.

5. PAYMENT:

Customer agrees to provide timely payment for the Products in accordance with the terms of payment set forth on the reverse side hereof or in any proposal submitted herewith. If any payment is not paid on or before its due date, Customer shall pay interest on such late payment from the due date until paid at the lesser of 12% per annum or the maximum rate allowed by law.

6. DEFAULT:

If Buyer is in default (including, but not limited to, the failure by Buyer to pay all amounts due and payable to Seller) under the work or purchase order or any other agreement between Buyer and Seller, Buyer's rights under the warranty shall be suspended during any period of such default and the original warranty period will not be extended beyond its original expiration date despite such suspension of warranty rights.

7. MISCELLANEOUS PROVISIONS:

This agreement has been made in and shall be governed by the laws of the State of Arizona. All disputes arising under or relating to the purchase of the equipment shall be brought and resolved solely and exclusively in the State of Arizona, Pima County. These terms and conditions and the description of the Products on the reverse side hereof or in any proposal submitted herewith constitute the entire agreement and understanding of the parties with respect to this sale and supersede all prior and contemporaneous agreements or understandings, inducements or representations, expressed or implied, written or oral, between the parties with respect hereto. Any term or provision of this Agreement may be amended, and any observance of any term of this Agreement may be waived, only by a writing signed by the party to be bounds. The waiver by a party of any breach shall not be deemed to constitute a waiver of any other breach. Should suit be brought on this Agreement, the prevailing party shall be entitled to recover its reasonable attorneys' fees and other costs of suit including costs and attorneys' fees incurred on appeal or in collection of any judgment., errors, or shortage in Products delivered shall be made by Customer in writing within such five (5) business day period. Failure to make any claim timely shall constitute acceptance of the Products.

8. RESTOCKING FEE:

All Returns are subject to a restocking charge equal to 15% (fifteen percent) of the Invoice, unless the Goods are proved to be non-conformed by PACE Technologies



ZETA-2000S Dispensing Unit

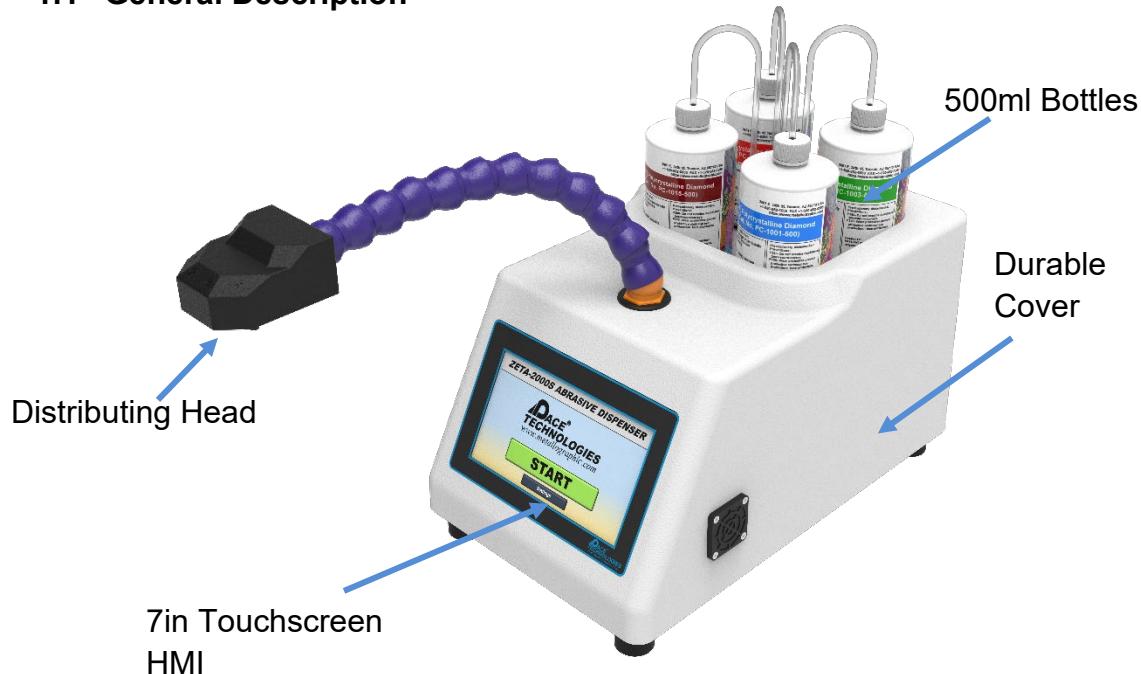


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1.0 Product Description

1.1 General Description



The ZETA-2000S is a multi-bottle, programmable, dispensing unit for metallographic sample preparation. Each bottle is programmed to dispense the exact amount of fluid as needed. This reduces consumables costs and standardizes preparation methods regardless of operator. The ZETA-2000S is fully touchscreen and easy to program and operate.

The ZETA-2000S comes equipped with four empty dispensing bottles. This allows the operator to fill and label them as needed. The ZETA-2000S accepts all of PACE Technologies 500ml abrasive fluids. Additional bottles are purchasable to fill with our larger volume consumables. Manual start and stop options allow the ZETA-2000S to be used with any polishing unit on the market. The adjustable arm allows for maximum reach and flexibility. When connected to a FEMTO-S series machine the unit becomes fully automatic. The FEMTO-S machine will auto run and stop based on the set parameters. When used with a FEMTO-S polishing head the full potential of the machine is unlocked. However, a FEMTO is not required to use the ZETA-2000S. This allows the ZETA-2000S to be a versatile machine with the ultimate compatibility with all metallographic polishers.



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1.2 Technical Specifications

<u>Electrical Specifications:</u>	110 / 220 Volts, 50/60 Hz
<u>Bottle Capacity:</u>	(4) 500ml Nalgene Bottles
<u>Pump Flow Rate:</u>	1.2~50ml/min
<u>Weight:</u>	Approx. 18 lbs (8.2 kg)
<u>Dimensions (W x H x D):</u>	Approx. 9.2 x 14 x 16-inches (235 x 365 x 405 mm)
<u>Working Temperature:</u>	32° - 100°F (0 – 40°C)
<u>Shipping Temperature:</u>	32° - 130°F (0 – 54°C)
<u>Storage Temperature:</u>	32° - 100°F (0 – 40°C)

2.0 Unpacking, Shipping and Installation

2.1 Unpacking

The ZETA-2000S is shipped in a customized box. Unpack the foam, which is covering the machine, from the box. Then remove the unit from the remaining foam.

2.2 Shipping

2.2 Shipping

When moving machine, lift by the base.



The **ZETA-2000S** is constructed with sensitive electronic and mechanical components.

DO NOT DROP.

! Caution: Use care when moving machine

2.3 Installation

Place the ZETA-2000S on a stable and flat surface. The ZETA-2000S requires an electrical connection.

Connect the electrical cable to an appropriate wall outlet. Then connect the other end of the cable into the back receptacle of the ZETA-2000S.

If using in the automated mode with the NANO-FEMTO connect cable between FEMTO-S and ZETA-2000S

3.0 General Operation

3.1 First Time Setup

Each bottle on the ZETA-2000S has an independent peristaltic pump. The operator will need to program each pump individually. Customize the duration and frequency rates for each required pump on ZETA-2000S to meet required standards. Once programmed, the ZETA-2000S will save all input information, until edited again. Follow the below instructions for each installed bottle:

1. Press the bottle number you would like to program
2. Set the frequency, duration, start time, and total time for the bottle
3. All settings will be saved until changed
4. Click the small check box next to bottle number to enable the pump once start is pressed
5. Repeat for each bottle needed
6. Check each box needed for preparation step
7. Select “Start” to run program
8. Pause will stop all pumps and timers and hold them at their current time
9. Stop will end the timers and stop all pumps. Timers will be reset to saved values

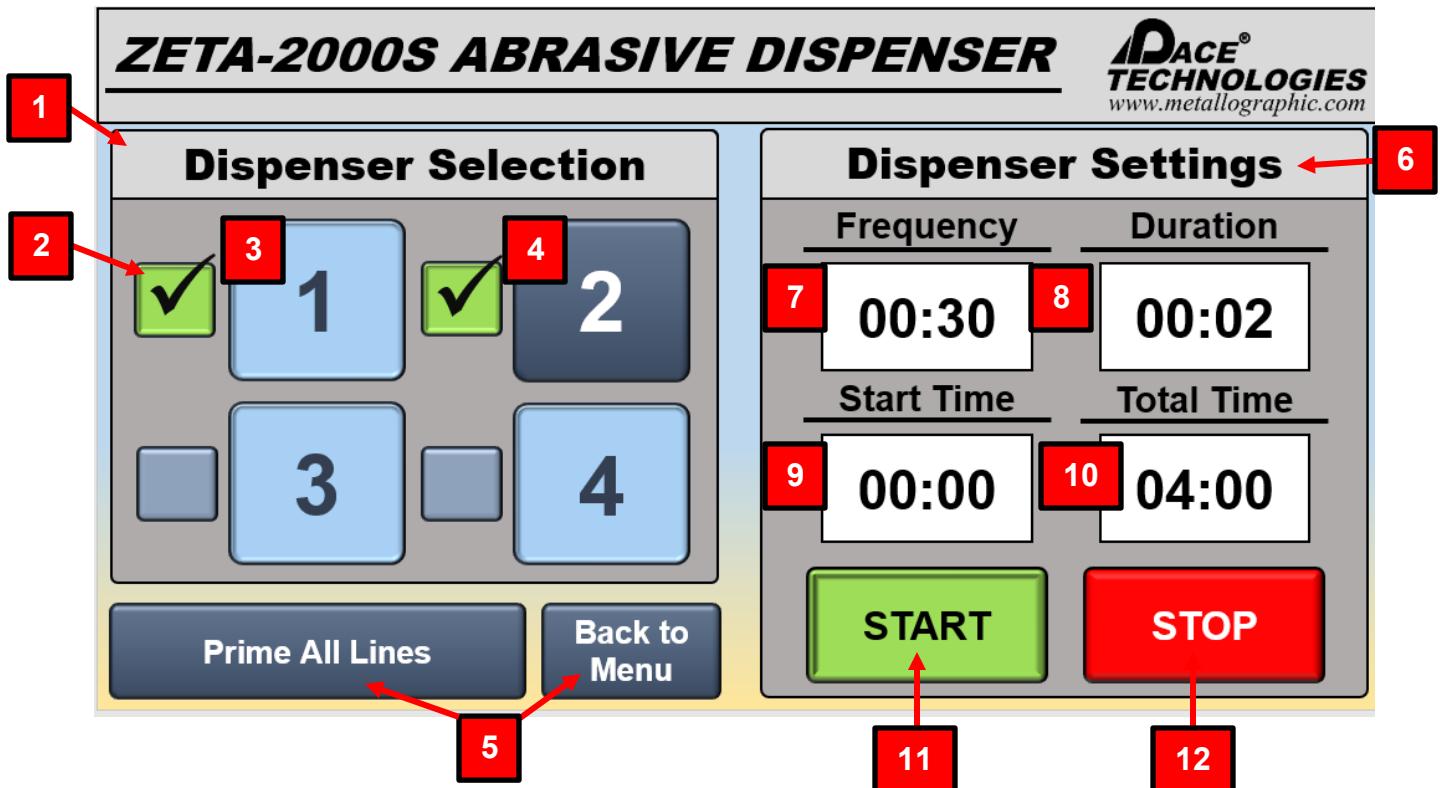
3.2.1 Basic Operation:

Once the ZETA-2000S is set up with the operators preferred settings the machine is very easy to use. If not connected to a FEMTO-S polishing head the unit needs to be started manually. The operator will need to press start to run the machine.

To start using the ZETA-2000S select the check boxes next to the pumps/bottles you would like to run with the polishing machine. After selection, start the unit and proceed with a polishing or grinding step as normal. The ZETA-2000S will stop after the last “Total Time” timer has ended.

Some forethought is required to get the pumps working to optimize liquid consumption while maintaining appropriate polishing standards. However, once set-up consumable liquids will be tightly controlled and reduce the amount of waste generated from a standard spray applicator.

3.2.2 Main Program Screen



1. Dispenser Selection: Contains the selections for each bottle. Enable and disable bottles in this menu
2. Bottle Toggle Box: A checked box enables the corresponding bottle to activate on procedure start
3. Not Selected Bottle: Each box corresponds to a bottle on the ZETA. When light blue the bottle is not displaying its pump settings to the menu on the right
4. Selected Bottle: A dark blue highlighted box is displaying its pump settings on the right menu. Press a number to populate its saved fields into the Dispenser Settings box (6)
5. Prime, and Menu buttons: Use these to activate Priming mode or return to Menu
6. Dispenser Settings: This box contains all the pump information related to the highlighted bottle
7. Frequency Box: Displays the current frequency of the selected pump. Press to edit
8. Duration Box: Displays the current duration of the selected pump. Press to edit
9. Start Time Box: Displays the current Start Time of the selected pump. Press to edit
10. Total Time Box: Displays the current Total Time of the selected pump. Press to edit
11. Start Button: Press to start procedure. All Toggled bottles will run
12. Stop Button: Stops the procedure and resets timers

3.2.3 Description of Each Pump Setting

- Frequency: Time between each pump activation. After the internal timer is completed, the pump will run for the duration time.
- Duration: Time the pump will run and dispense liquid. Once the internal timer is completed, a new internal timer will be set for the frequency time.
- Start Time: Sets the time for the first duration activation (pump activation).
- Total Time: After this internal timer is completed all functions of the selected pump will stop regardless of current pump status.

3.2.4 Example Settings

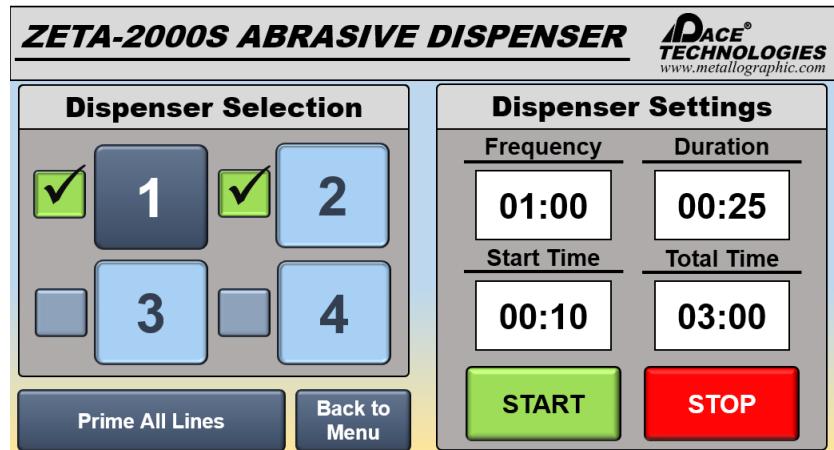
Pump 1 (diamond) settings

1:00 frequency

0:25 duration

0:10 start time

3:00 total time.



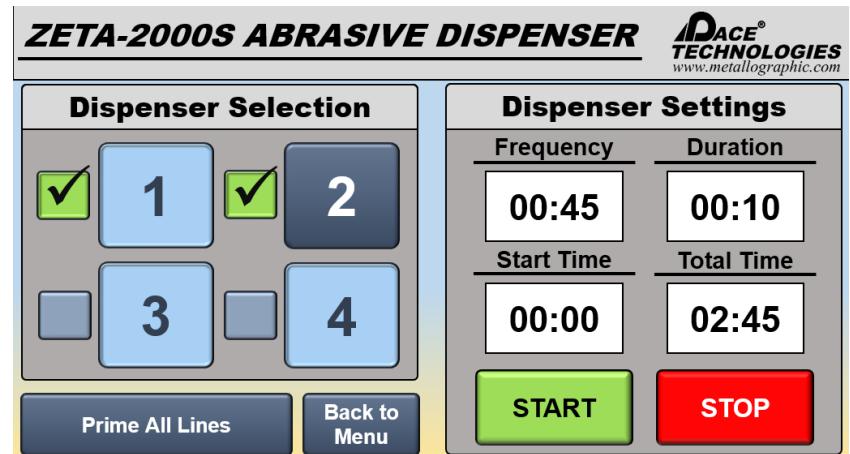
Pump 2 (lubricant) settings

0:45 frequency

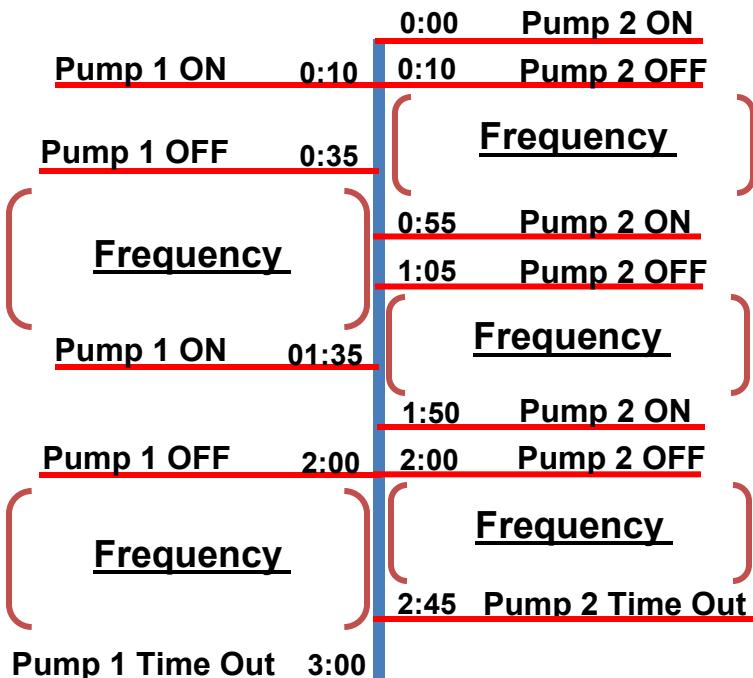
0:10 duration

0:00 start time

2:45 total time



Start



Stop

Manual Procedure Completed

Manual Procedure has been completed!

OK

Explanation:

1. Start is pressed
2. Pump 2 activates immediately and starts dispensing lubricant
3. 0:10- lubricant stops. Diamond starts to dispense
4. 0:35- diamond stops dispensing
5. 0:55- lubricant starts
6. 1:05- lubricant stops
7. 1:35- diamond starts, lubricant starts
8. 1:45- lubricant stops
9. 2:00- diamond stops
10. 2:45- lubricant pump stops for the rest of the procedure due to its stop time
11. 3:00- diamond pump and lubricant pump stop for the rest of the procedure. No other selected pumps have additional Total Time left. The procedure ends
12. ZETA-2000S pops up with Completed Procedure screen

3.3.1 Priming

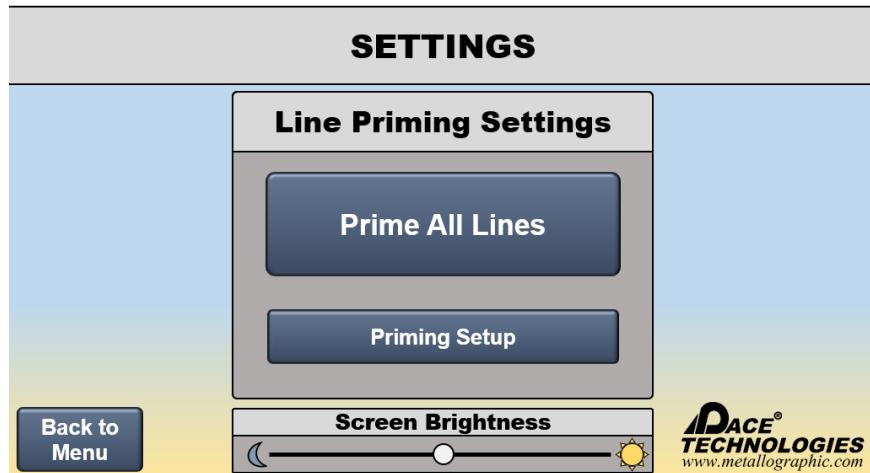
The ZETA-2000S is equipped with a feature to automatically fill the lines from the bottles.

3.3.2 Flushing Lines

Flushing the lines will remove all abrasives from the lines of the ZETA-2000S. Flushing is accomplished by using an external bottle of rinse solution and flushing each line separately.

3.3.3 Priming Lines

Priming is the opposite of flushing lines. This settings fills the lines with liquids. Use this to fill all lines with new liquid. Priming is typically done after a flushing sequence. Inside of the settings menu you can adjust the priming times. These are set at the factory; however they can be adjusted as needed.

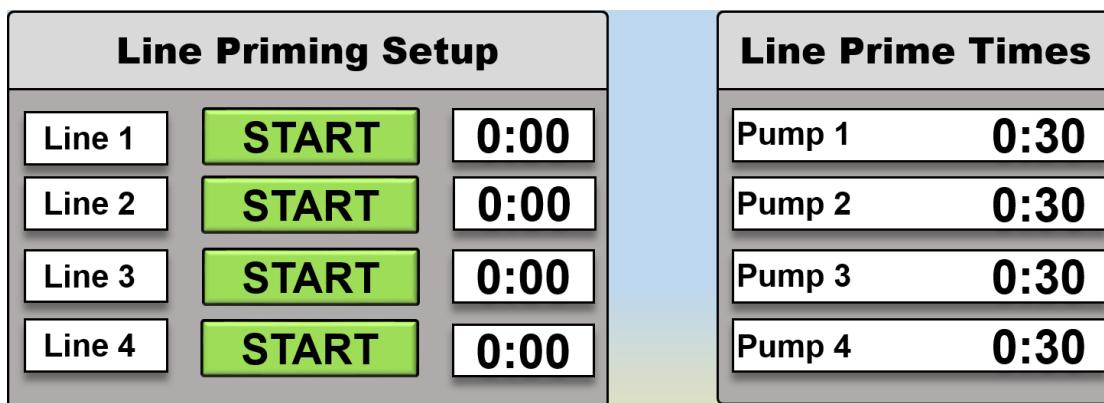


3.4 FEMTO-S Connection

Once connected to a FEMTO-S polishing head the ZETA-2000S becomes fully automated. Once all the pumps are programmed, the ZETA-2000S will run and stop with the FEMTO head. Having all the machines, NANO-S, FEMTO-S and ZETA-2000S enable an unlimited range of sample preparation options.

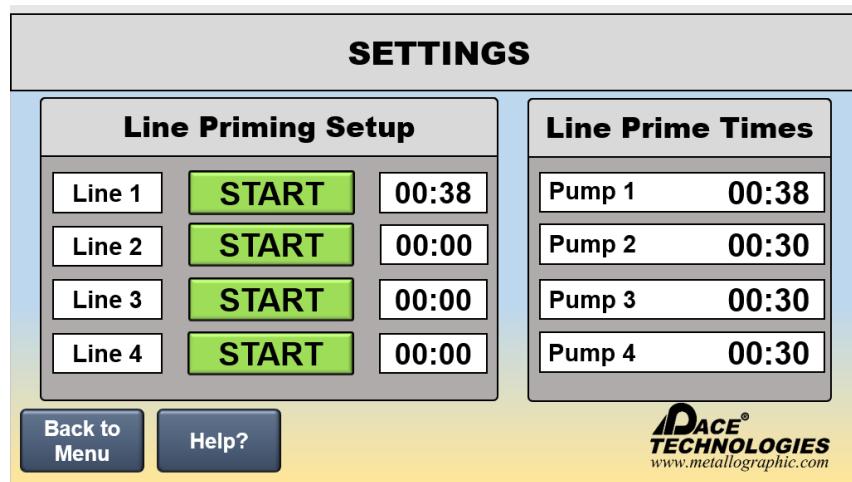
3.5 Priming Set-Up

Return to the Menu Screen. On the startup screen there is a settings button. Select this button to open the settings menu. Select either priming to enable programing.



Prime Settings Menu

Each pump has an individual start button. Adjacent to the start button is a count-up timer. After pressing the start button the count-up timer will activate. When stop is pressed the timer will store the value to the right most field. This is the time that will be used when the prime button is selected. Another option is to simply touch the desired pump under the "Line Prime Times" and manually input the time desired. Each line will require a different time due to differences in hose length.





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4.0 Maintenance

The ZETA-2000S requires little maintenance. However, there are some daily, weekly, and monthly checks that should be completed. Solutions that are prone to settle should be flushed from the lines after use. Do not leave solutions in the lines for longer than 1 week.

Daily Checks:

- Clean touchscreen a lightly damped cloth. Do not use cleaning solutions or abrasive cleaners
- Run each pump for at least 1-2 seconds. This will clear air out of the ends of the lines and prepare the unit for the remainder of the day. Use the prime settings to activate each pump separately, do not save settings upon exiting
- If using suspensions, check each bottle for settling. Agitate if necessary

Weekly Checks:

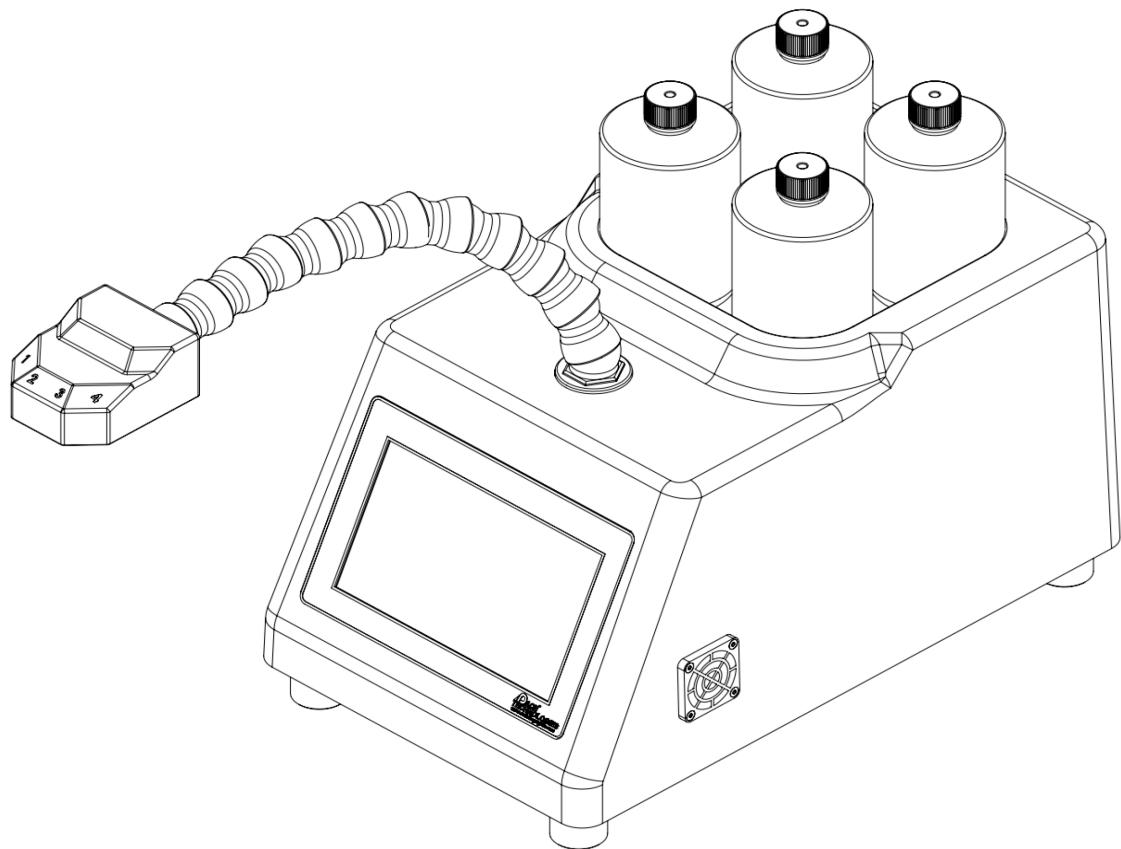
- Clean exterior of machine with a damp cloth. Do not use harsh cleaning solutions or abrasive cleaners

5.0 Assembly Drawings

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ZETA-2000S

Assembly Drawings

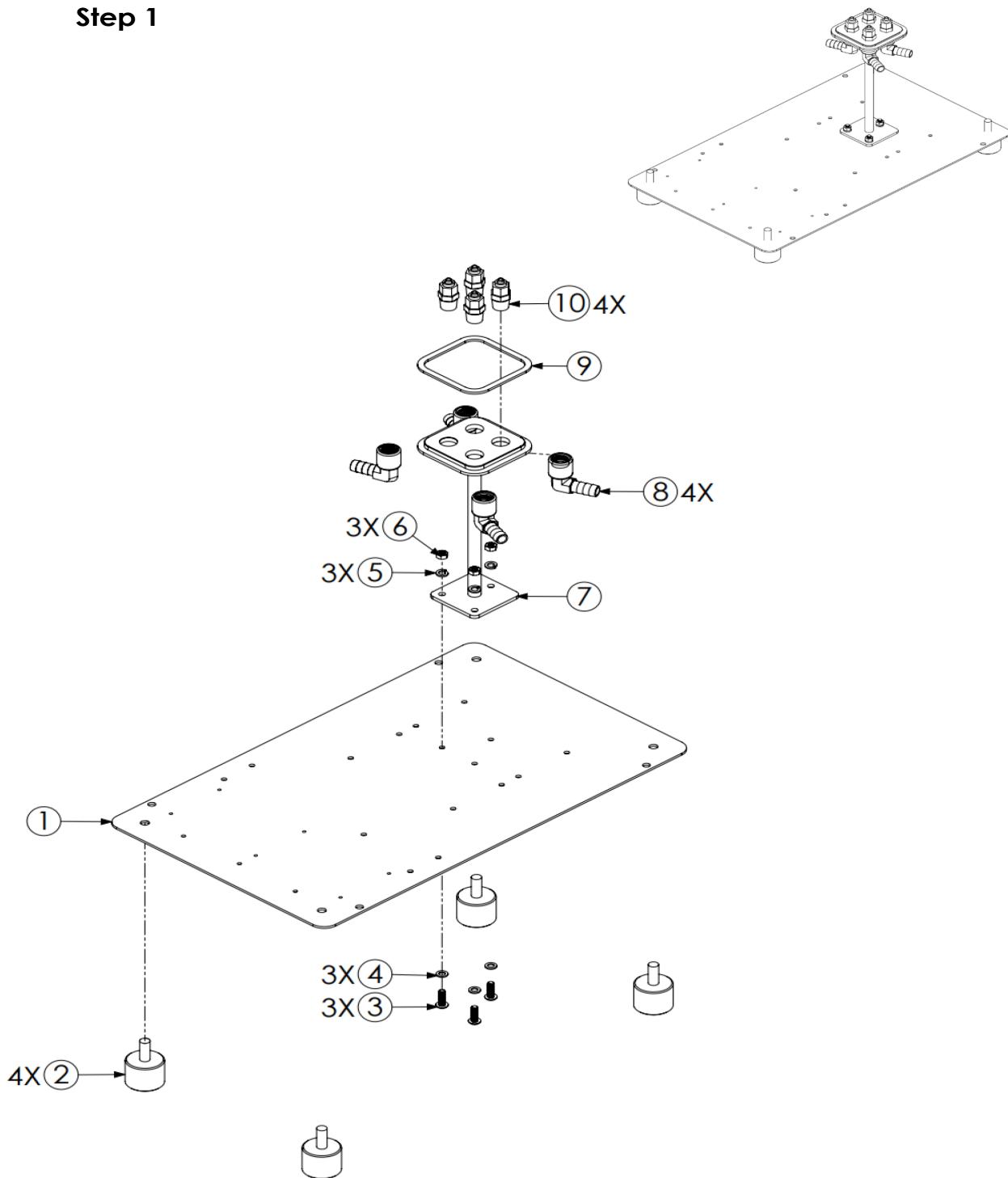


Please read this instruction manual carefully and follow all installation, operating and safety guidelines.

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Step 1



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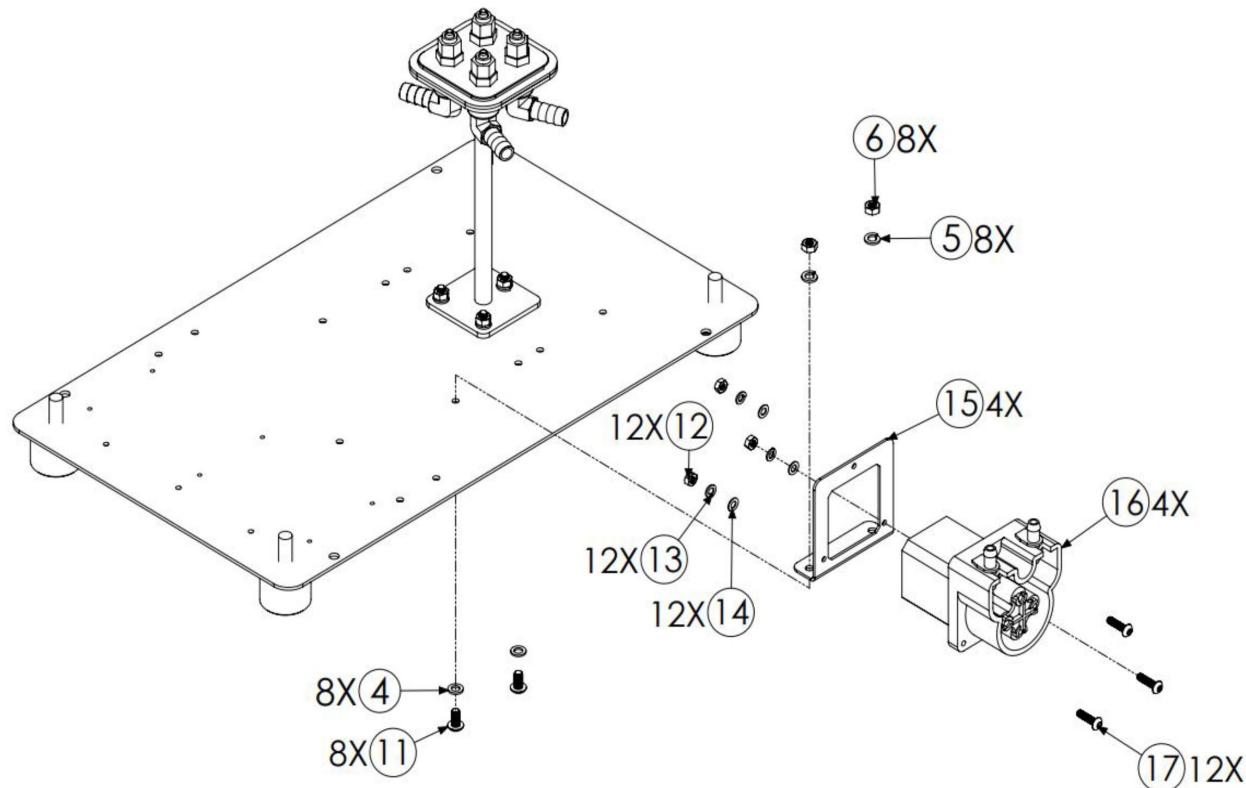
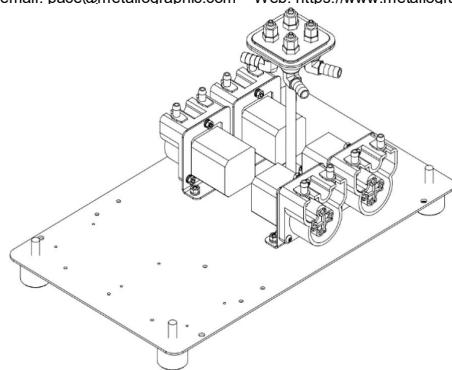
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Step 2

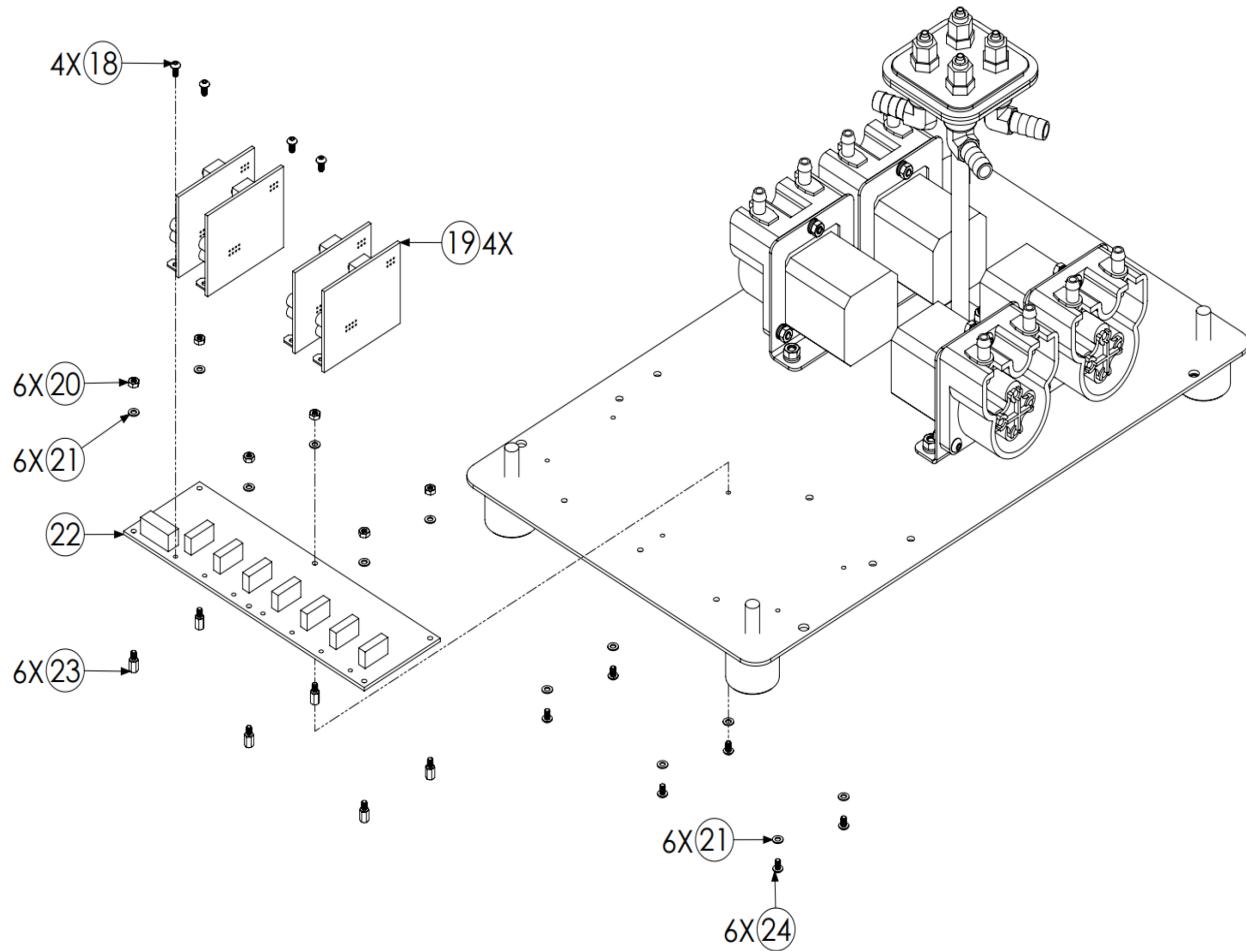
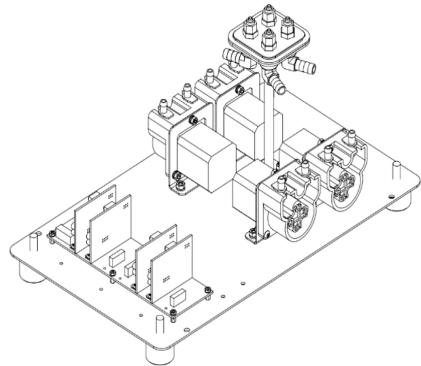
NOTES:

- INSTALL ITEMS 15 AND 16 FOUR TIMES. (SEE ASSEMBLED PICTURE)



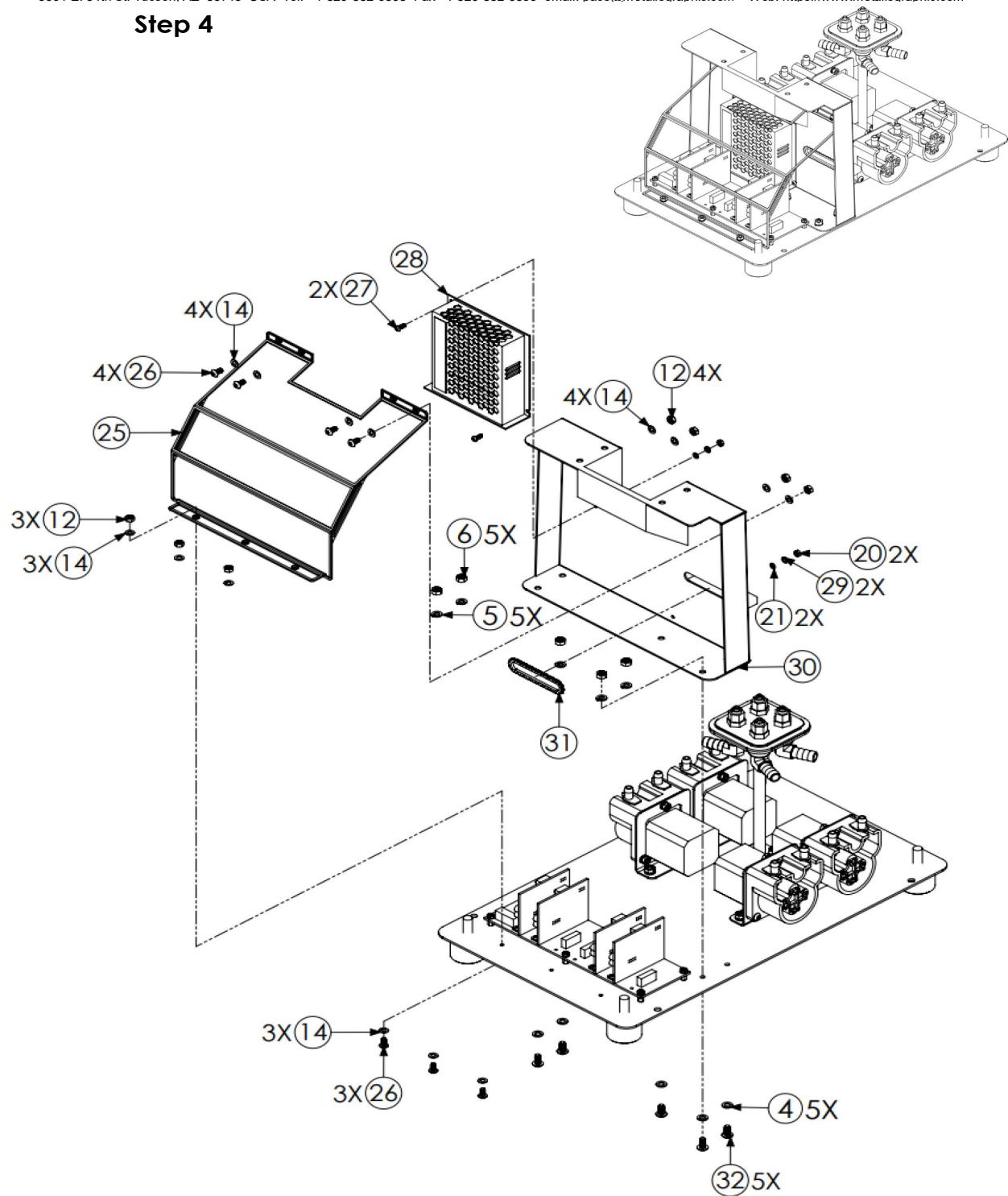
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Step 3



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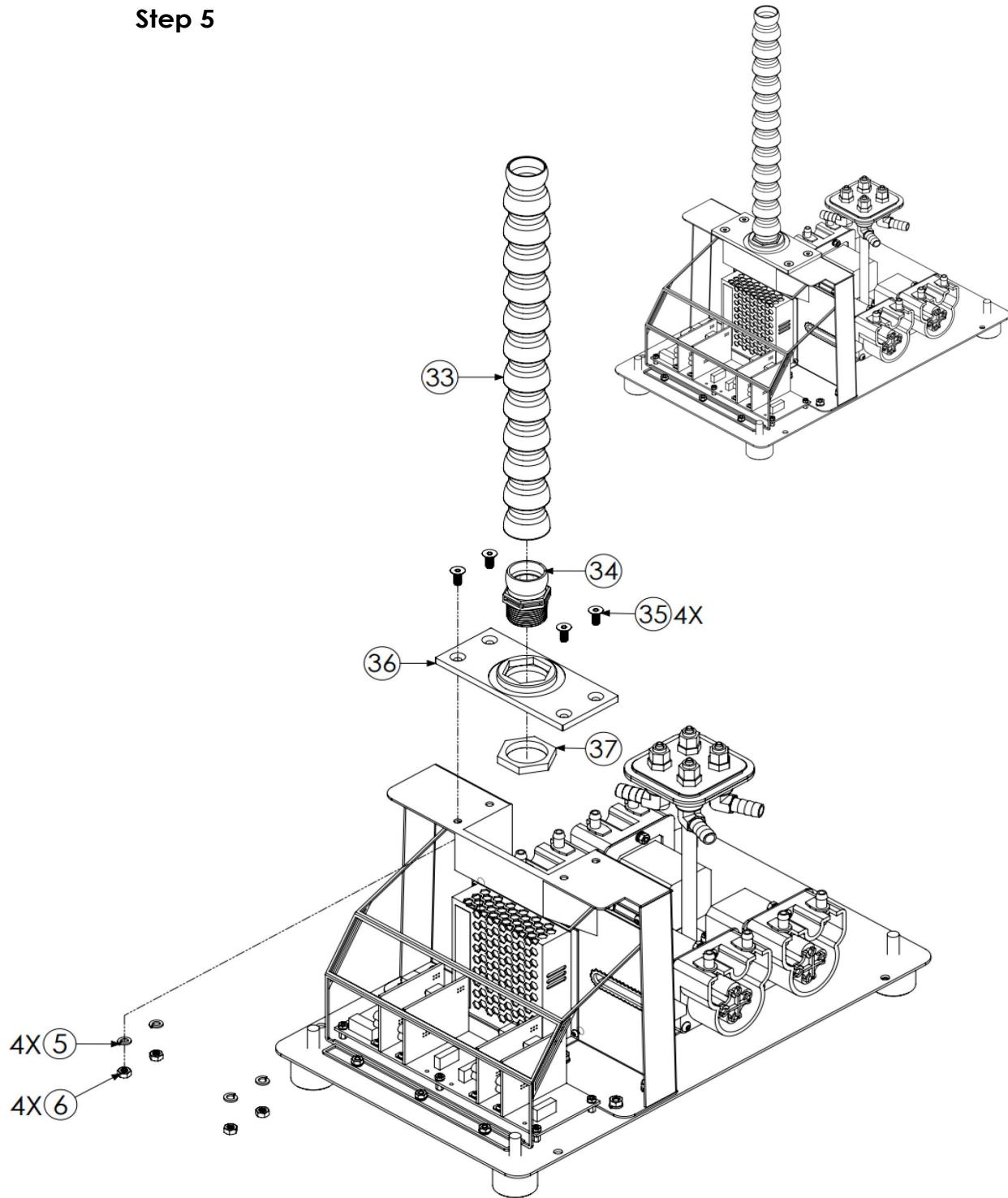
Step 4



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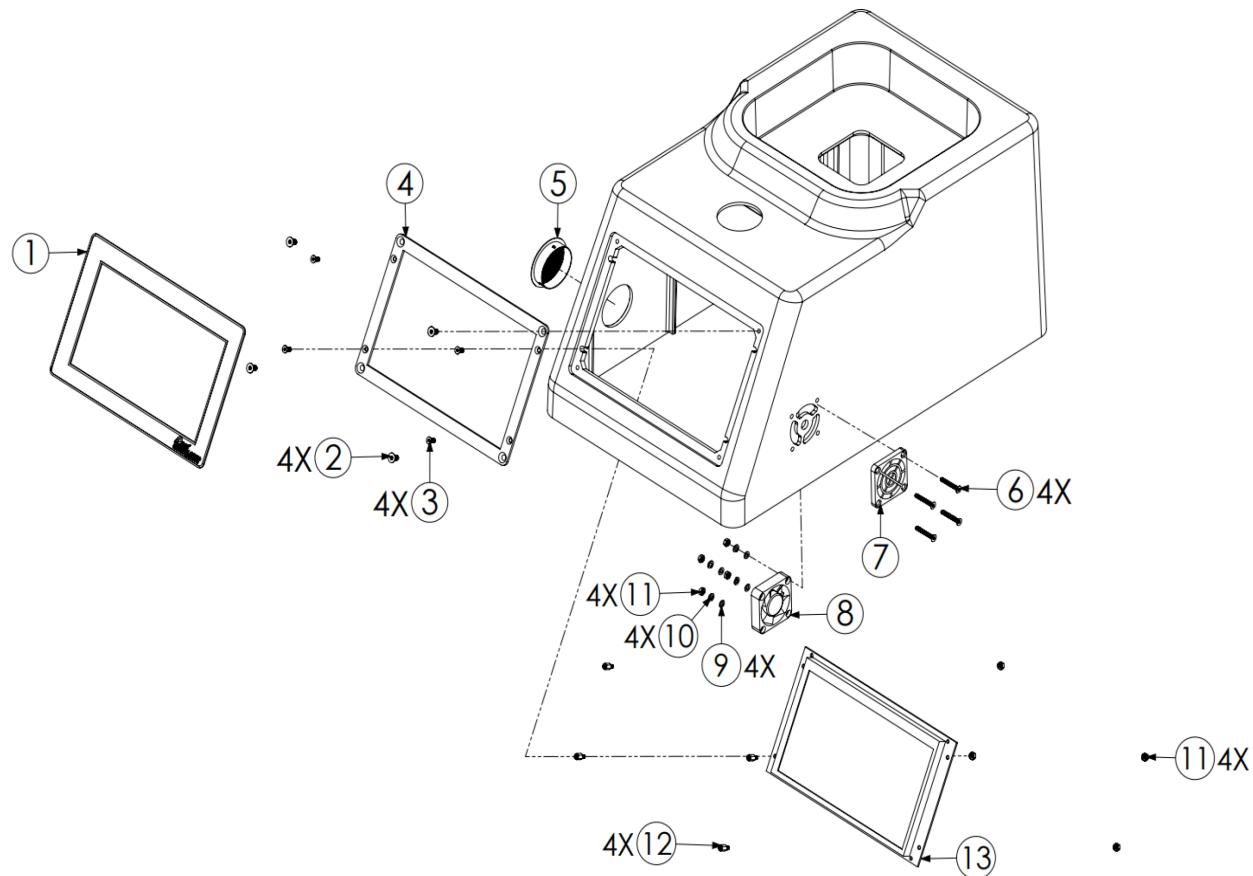
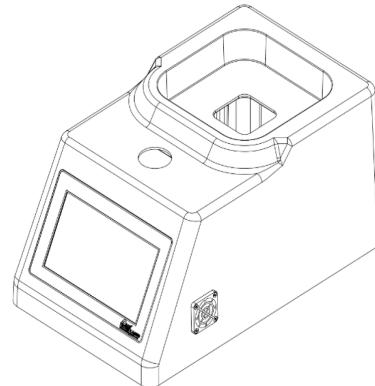
Step 5



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Cover Subassembly





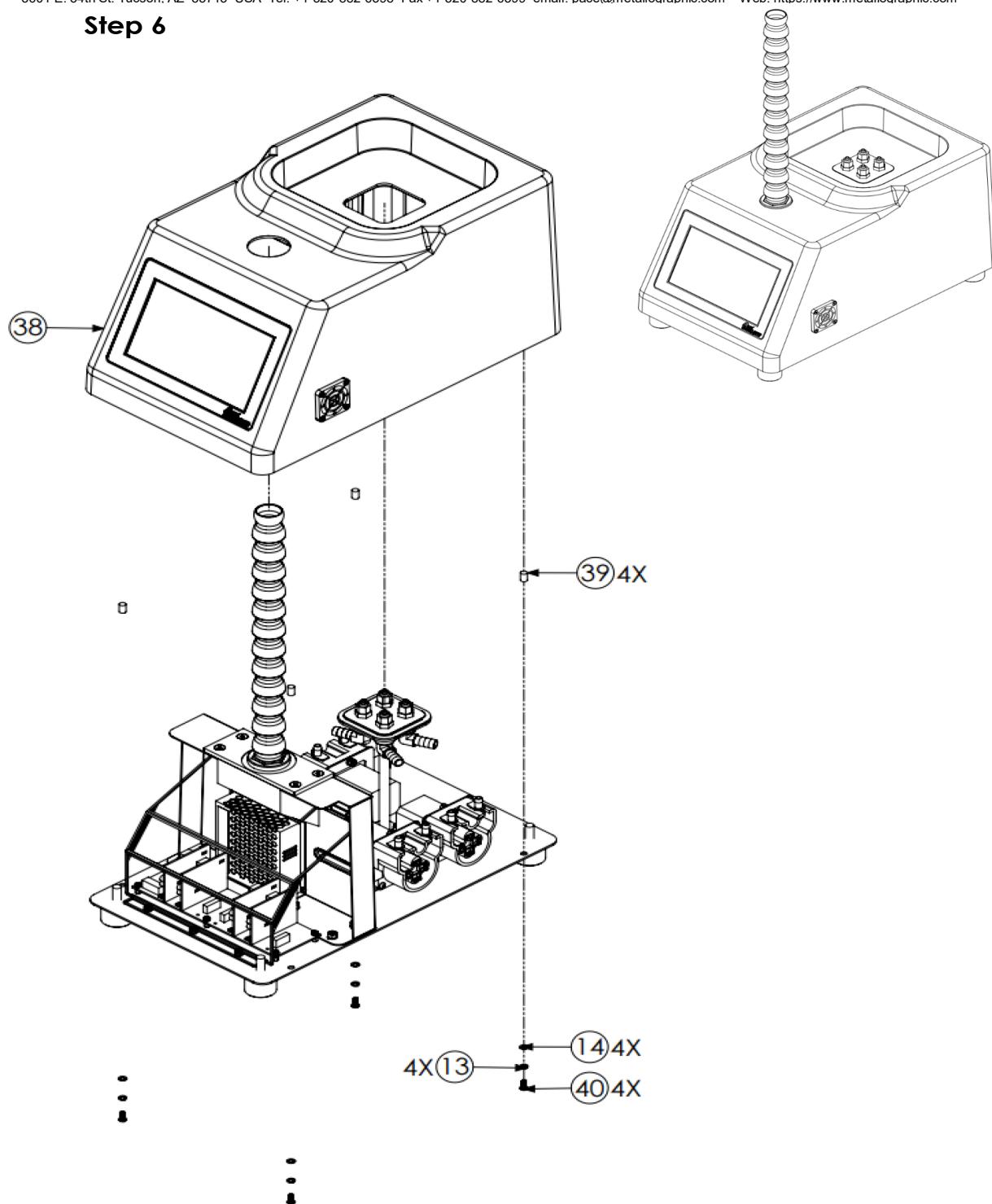
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Cover Subassembly Part List

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Z2-T	Template	1
2	Stock	M4 8mm Flat Head Hex Screw	4
3	Stock	M3 8mm Flat Head Hex Screw	4
4	Z2-F-002	Front Metal Panel	1
5	*	Louver, 1.5-inch Diameter	1
6	Stock	M3 22mm Flat Head Hex Screw	4
7	*	Fan Cover, 40x40mm	1
8	40MM-FAN	ZETA-2000 Fan, 40*40mm, 24VDC	1
9	Stock	M3 Flat Washer	4
10	Stock	M3 Lock Washer	4
11	Stock	M3 Hex Nut	8
12	Stock	M3 Plastic Standoff	4
13	SRN-T-7IN	HMI 7-inch Touch Screen	1

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Step 6



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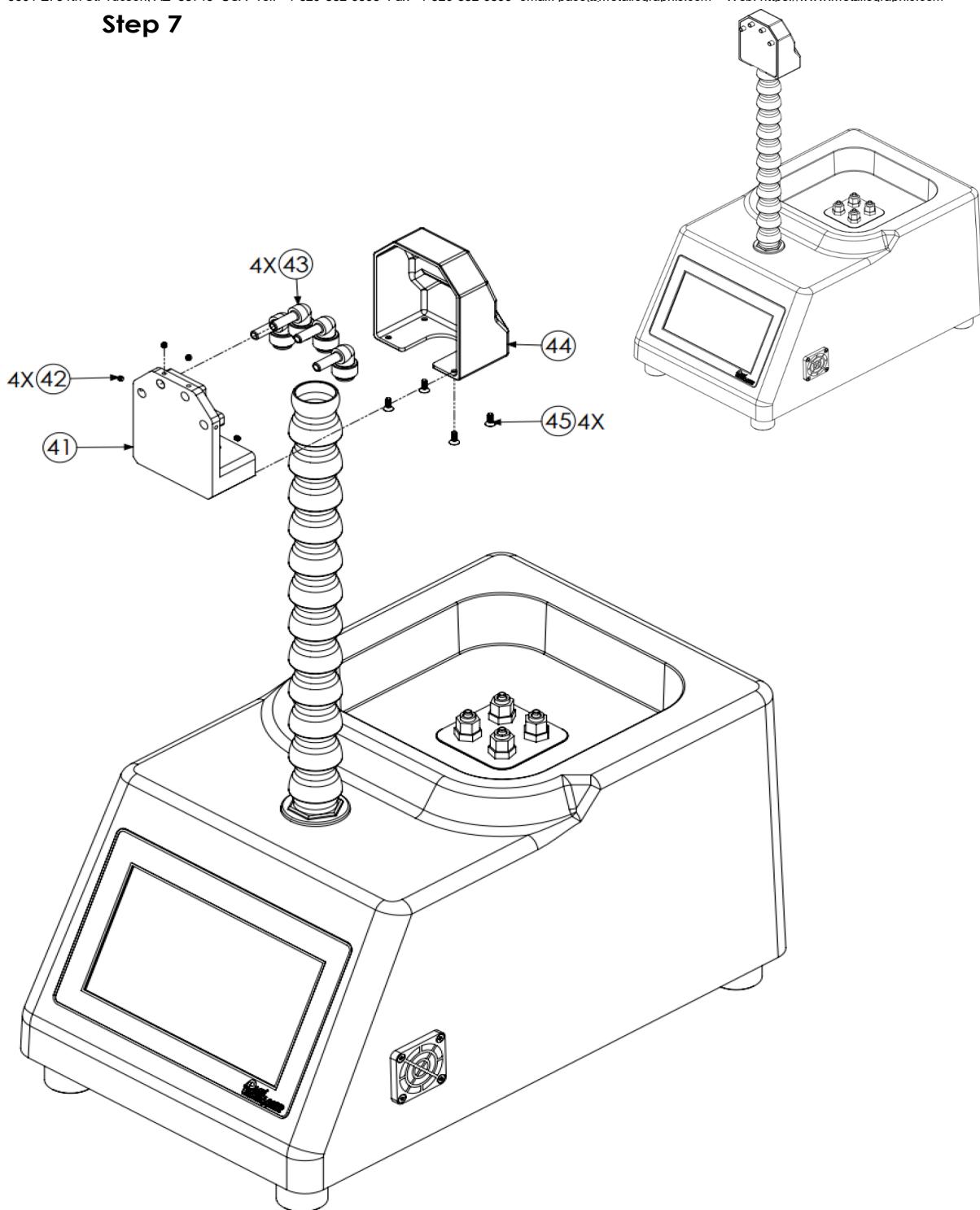


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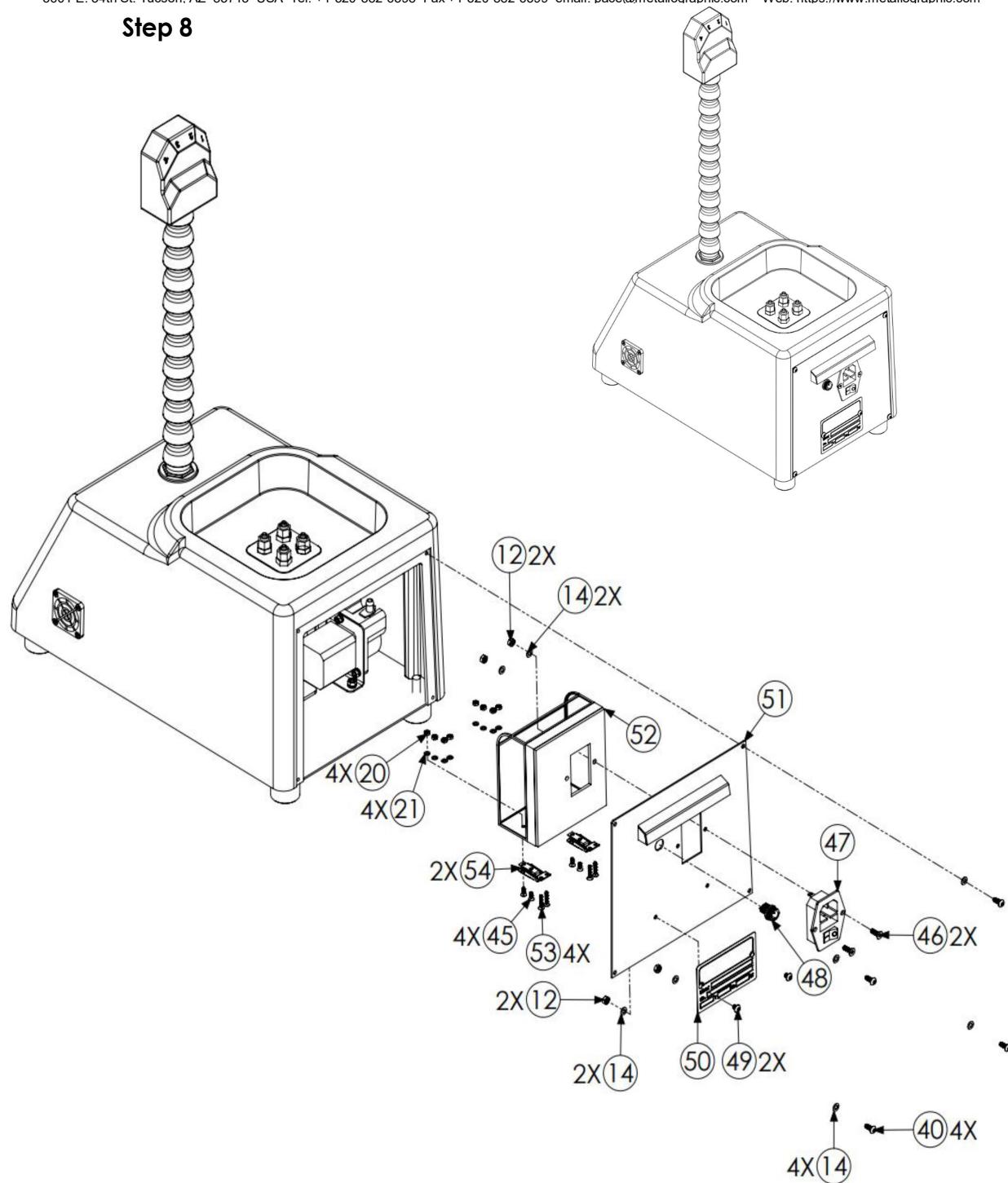
Step 7

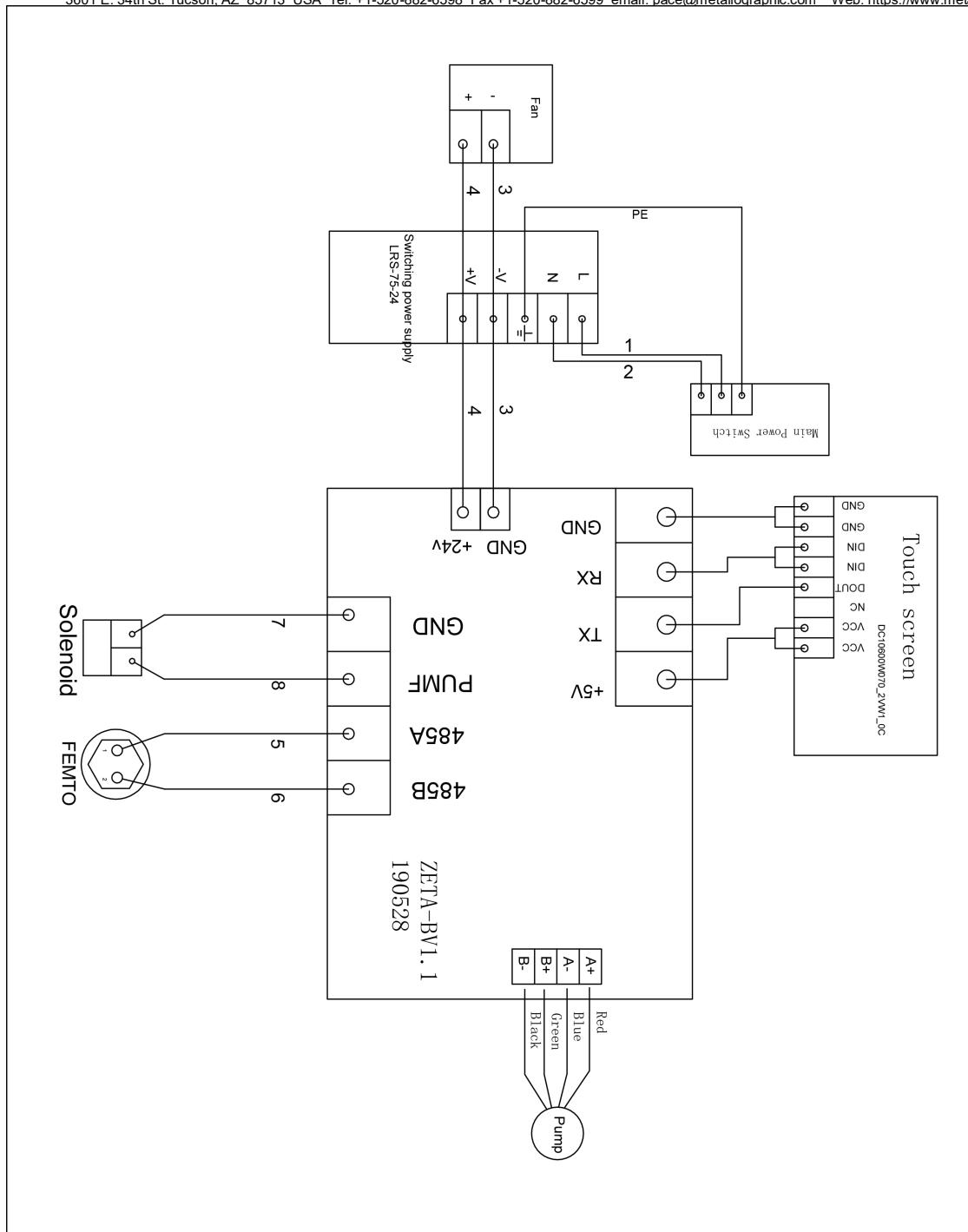


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Step 8





6.0 Consumables

Polycrystalline Diamond Product Description

Polycrystalline Diamond Suspensions (water-based)

Description	Quantity	Low Viscosity	High Viscosity	Product Image
0.05 micron DIAMAT Polycrystalline diamond	250 ml 500 ml 1 gallon	GPC-0105-250 GPC-0105-500 GPC-0105-1GL	PC-0105-250 PC-0105-500 PC-0105-1GH	
0.1 micron DIAMAT Polycrystalline diamond	250 ml 500 ml 1 gallon	GPC-0110-250 GPC-0110-500 GPC-0110-1GL	PC-0110-250 PC-0110-500 PC-0110-1GH	
0.25 micron DIAMAT Polycrystalline diamond	250 ml 500 ml 1 gallon	GPC-0125-250 GPC-0125-500 GPC-0125-1GL	PC-0125-250 PC-0125-500 PC-0125-1GH	
0.5 micron DIAMAT Polycrystalline diamond	250 ml 500 ml 1 gallon	GPC-0150-250 GPC-0150-500 GPC-0150-1GL	PC-0150-250 PC-0150-500 PC-0150-1GH	
1 micron DIAMAT Polycrystalline diamond	250 ml 500 ml 1 gallon	GPC-1001-250 GPC-1001-500 GPC-1001-1GL	PC-1001-250 PC-1001-500 PC-1001-1GH	
3 micron DIAMAT Polycrystalline diamond	250 ml 500 ml 1 gallon	GPC-1003-250 GPC-1003-500 GPC-1003-1GL	PC-1003-250 PC-1003-500 PC-1003-1GH	
6 micron DIAMAT Polycrystalline diamond	250 ml 500 ml 1 gallon	GPC-1006-250 GPC-1006-500 GPC-1006-1GL	PC-1006-250 PC-1006-500 PC-1006-1GH	
9 micron DIAMAT Polycrystalline diamond	250 ml 500 ml 1 gallon	GPC-1009-250 GPC-1009-500 GPC-1009-1GL	PC-1009-250 PC-1009-500 PC-1009-1GH	
15 micron DIAMAT Polycrystalline diamond	250 ml 500 ml 1 gallon	GPC-1015-250 GPC-1015-500 GPC-1015-1GL	PC-1015-250 PC-1015-500 PC-1015-1GH	
30 micron DIAMAT Polycrystalline diamond	250 ml 500 ml 1 gallon	GPC-1030-250 GPC-1030-500 GPC-1030-1GL	PC-1030-250 PC-1030-500 PC-1030-1GH	
45 micron DIAMAT Polycrystalline diamond	250 ml 500 ml 1 gallon	GPC-1045-250 GPC-1045-500 GPC-1045-1GL	PC-1045-250 PC-1045-500 PC-1045-1GH	

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Polycrystalline Diamond Suspension - Dyed

Description	Quantity	Catalog Number	Product Image
1 micron (blue) DIAMAT PC Diamond Suspension	1 liter	PC-1001-1L	
1 micron (blue) DIAMAT PC Diamond Suspension	1 gallon	PC-1001-1GLB	
3 micron (green) DIAMAT PC Diamond Suspension	1 liter	PC-1003-1L	
3 micron (green) DIAMAT PC Diamond Suspension	1 gallon	PC-1003-1GLG	
6 micron (yellow) DIAMAT PC Diamond Suspension	1 liter	PC-1006-1L	
6 micron (yellow) DIAMAT PC Diamond Suspension	1 gallon	PC-1006-1GLY	
9 micron (red) DIAMAT PC Diamond Suspension	1 liter	PC-1009-1L	
9 micron (red) DIAMAT PC Diamond Suspension	1 gallon	PC-1009-1GLR	
15 micron (brown) DIAMAT PC Diamond Suspension	1 liter	PC-1015-1L	
15 micron (brown) DIAMAT PC Diamond Suspension	1 gallon	PC-1015-1GLBR	
30 micron (orange) DIAMAT PC Diamond Suspension	1 liter	PC-1030-1L	
30 micron (orange) DIAMAT PC Diamond Suspension	1 gallon	PC-1030-1GLO	
45 micron (purple) DIAMAT PC Diamond Suspension	1 liter	PC-1045-1L	
45 micron (purple) DIAMAT PC Diamond Suspension	1 gallon	PC-1045-1GLP	

Diamond Extenders (lubricants)

Description	Quantity	Catalog Number	Product Image
DIALUBE diamond extender	16 oz (0.125l) 32 oz (0.24l) 1 gallon (3.8l)	DL-3000-16 DL-3000-32 DL-3000-128	
DIALUBE Blue Alcohol lubricant	16 oz (0.125l) 32 oz (0.24l) 1 gallon (3.8l)	AOD-3000-16 AOD-3000-32 AOD-3000-128	
DIALUBE Purple Alcohol lubricant	16 oz (0.125l) 32 oz (0.24l) 1 gallon (3.8l)	ADL-3000-16 ADL-3000-32 ADL-3000-128	
POLYLUBE non-aqueous diamond extender	16 oz (0.125l) 32 oz (0.24l) 1 gallon (3.8l)	PDL-3000-16 PDL-3000-32 PDL-3000-128	
POLYLUBE red (anti-corrosion) lube	16 oz (0.125l) 32 oz (0.24l) 1 gallon (3.8l)	PDL-3000R-16 PDL-3000R-32 PDL-3000R-128	

ZETA-2000S Dispensing Unit



INSTRUCTION MANUAL

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Polycrystalline Diamond Paste

Description	Quantity	Catalog Number	Product Image
DIAMAT Polycrystalline diamond paste (0.1-micron)	5 gm 20 gm	PC-0210-05 PC-0210-20	
DIAMAT Polycrystalline diamond paste (0.25-micron)	5 gm 20 gm	PC-0225-05 PC-0225-20	
DIAMAT Polycrystalline diamond paste (0.50-micron)	5 gm 20 gm	PC-0250-05 PC-0250-20	
DIAMAT Polycrystalline diamond paste (1-micron)	5 gm 20 gm	PC-2001-05 PC-2001-20	
DIAMAT Polycrystalline diamond paste (3-micron)	5 gm 20 gm	PC-2003-05 PC-2003-20	
DIAMAT Polycrystalline diamond paste (6-micron)	5 gm 20 gm	PC-2006-05 PC-2006-20	
DIAMAT Polycrystalline diamond paste (9-micron)	5 gm 20 gm	PC-2009-05 PC-2009-20	
DIAMAT Polycrystalline diamond paste (15-micron)	5 gm 20 gm	PC-2015-05 PC-2015-20	
DIAMAT Polycrystalline diamond paste (30-micron)	5 gm 20 gm	PC-2030-05 PC-2030-20	
DIAMAT Polycrystalline diamond paste (45-micron)	5 gm 20 gm	PC-2045-05 PC-2045-20	