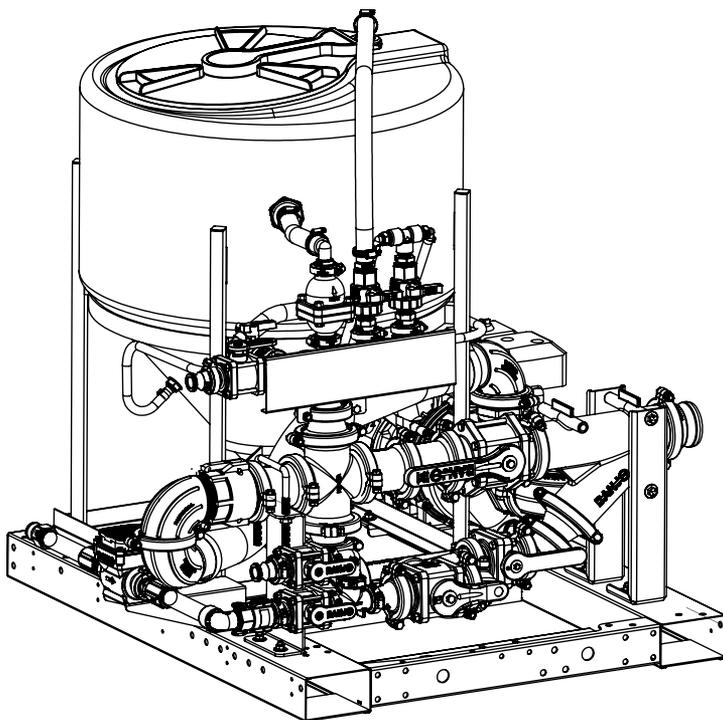


SWIFT BLENDER™

OWNER'S MANUAL



Product Codes:
CHSSB001, CHSSB001-3P

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INTRODUCTION

Congratulations! You now own an Enduraplas chemical mixing station. Durable design and construction assure you a lifetime of extreme performance.

Take a look through this owner's manual to learn how the pros use their Enduraplas chemical mixing station.



Watch Instruction Videos:
www.youtube.com/enduraplas

Discover More Helpful Tips:
blog.enduraplas.com/liquid-storage-transport

WARNINGS

1. To ensure your own safety and that of others, you must comply with all relevant environmental, work place health, safety legislation and codes of practice.
2. Select and wear appropriate Personal Protection Equipment in accordance with the label of the product you intend to use.
3. Once the mixing operation has been completed, decontaminate the spray tank and spray accessories. Dispose of tank rinsing's in compliance with current environmental, work place health and safety regulations.
4. Personal Protection Equipment must still be worn while decontaminating your sprayer as per warning 3 above.
5. Improper or careless use of this mixing station can cause serious injury. Minors should never be allowed to use this sprayer. This mixing station should not be used when bystanders or animals are in the area. This mixing station should never be used while children are in the area.
6. Never leave the mixing station unattended without turning off the pump, relieving the line pressure, and flushing the

mixing station of any harmful chemicals.

7. You must be in good mental health to operate this mixing station and not be under the influence of alcohol or any drugs that could impair your vision, physical strength, dexterity, judgment, or other mental capacity.
8. No modifications and/or alterations may be made to this mixing station. Any such modifications not only void the warranty but can make the unit dangerous to anyone operating the pump.
9. Always inspect hoses and piping to avoid burst injuries.
10. Clean out and fully flush the tank between switching chemicals.



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WARNINGS

Safety and Operating Instructions

SAFETY INSTRUCTIONS



 DUE TO RISK OF SEVERE PERSONAL INJURY, DO NOT USE THIS EQUIPMENT UNTIL YOU HAVE COMPLETELY READ AND FULLY UNDERSTAND HOW TO FOLLOW ALL OF THESE WARNINGS AND INSTRUCTIONS.

 SHARP POINT AND BLADES POSE A RISK OF PUNCTURE AND LACERATION. USE GLOVES AND EXTREME CAUTION WHEN POSITIONING HANDS AND ARMS TO AVOID COMING IN CONTACT WITH THE BLADE. MAKE SURE FOOTING IS STABLE AND BALANCED BEFORE OPERATION.

 HIGH PRESSURE WATER USED WITH CHEMICALS POSES A RISK OF SPLASH WITH CHEMICAL RESIDUE. ALWAYS WEAR SAFETY GLASSES TO REDUCE THE RISK THAT WATER AND CHEMICAL COULD COME IN CONTACT WITH YOUR EYES.

 AGRICULTURAL CHEMICALS POSE NUMEROUS HAZARDS. BE SURE TO READ, UNDERSTAND AND FOLLOW ALL WARNINGS AND INSTRUCTIONS BY THE CHEMICAL MANUFACTURER OR SUPPLIER REGARDING THE USE OF EACH CHEMICAL.

 ALWAYS USE ALL PERSONAL PROTECTIVE EQUIPMENT SPECIFIED BY THE CHEMICAL MANUFACTURER OR SUPPLIER WHICH MAY INCLUDE BUT NOT BE LIMITED TO CHEMICAL PROTECTIVE GLOVES, EYE PROTECTION, PROTECTIVE FOOTWEAR AND CLOTHING, AND NIOSH APPROVED RESPIRATORY PROTECTION.

 ALWAYS POSITION THE HANDLE AND LID OPENING OF THE CHEMICAL CONTAINER IN THE VERTICAL AND UPRIGHT POSITION WHEN OPERATING THE BLADE IN ORDER TO BE ABLE TO HAVE A FIRM GRIP ON THE CONTAINER.

 SLOWLY OPEN RINSE SUPPLY VALVE TO MAKE SURE ONLY ENOUGH WATER PRESSURE IS APPLIED AND NOT TO OVER PRESSURE. TOO MUCH WATER PRESSURE COULD CAUSE YOU TO LOSE GRIP ON THE CHEMICAL CONTAINER, SPLASH CHEMICAL OR CAUSE THE RINSE HEAD TO FAIL. ONLY PARTIAL OPENING OF THE RINSE VALVE MAY BE NECESSARY.

 NEVER OPERATE THE RINSE HEAD WITH THE TANK LID OPEN AND WITHOUT THE LIQUID CHEMICAL CONTAINER POSITIONED OVER THE RINSE HEAD TO AVOID SPRAY OF WATER OR CHEMICAL OUT OF THE TANK.

 THE BLADE IS DESIGNED FOR USE WITH 2.5 GALLON JUGS AND LARGER. DO NOT USE WITH SMALLER JUGS THAN 2.5 GALLON AND USE EXTREME CAUTION WITH SMALLER CONTAINERS TO AVOID HANDS AND ARMS COMING IN CONTACT WITH SHARP POINT AND BLADES.

 THE BLADE'S SHARP EDGES ARE DESIGNED TO LAST A LONG TIME WITHOUT SHARPENING. IN CASE BLADES NEED TO BE SHARPENED, USE GLOVES AND EXTREME CAUTION WHEN HANDLING AND REMOVING BLADE ASSEMBLY TO AVOID LACERATION AND PUNCTURE WOUND. CONTACT ECK FABRICATION FOR NEW BLADE ASSEMBLY.

 TO AVOID THE RISK OF SEVERE INJURY, INCLUDING LACERATION AND PUNCTURE WOUND, NEVER REACH INTO THE TANK TO RETRIEVE ANY OBJECT OR CONTAMINATE WITHOUT FIRST SAFELY REMOVING THE BLADE.

Steps of Operation

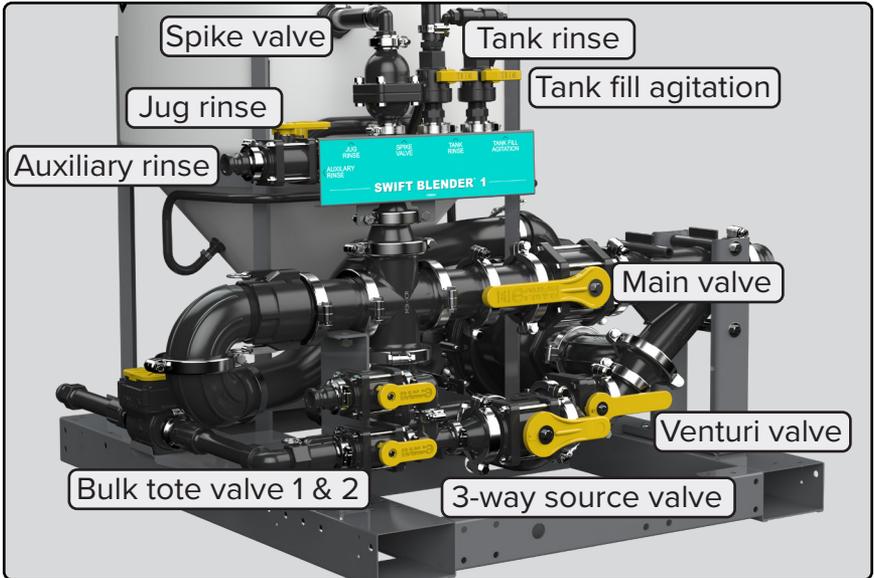


TO AVOID SERIOUS PERSONAL INJURY, BE SURE TO READ, UNDERSTAND AND FOLLOW ALL SAFETY INSTRUCTION LISTED ABOVE AND ALL STEPS LISTED BELOW.

1. Firmly grab liquid chemical jug with one hand on the handle and one hand on the lid of the jug; for bags of dry chemical firmly hold two corners of the bag with two hands.
2. Suspend jug or bag centered vertically straight up from the tip of the Blade.
3. With speed Press container down onto Blade until container is half way down blades or until sufficient puncture has occurred so contents can empty. Use care not to push too far to avoid hands and arms coming in contact with the sharp point and edges of the Blade.
4. Once liquid chemical has emptied from the container, while keeping firm hold of the container, open rinse supply valve slowly and introduce only enough water pressure to apply rinse. **Do not use rinse for dry product application. chemical.**
5. After running the rinse system for the time specified by the chemical manufacturer or supplier, turn off rinse supply valve and allow container to drain completely as directed by the chemical manufacturer or supplier.
6. Pull straight up on container and remove it from the Blade and discard as directed by the chemical manufacturer or supplier.
7. Successful Operation!

GETTING STARTED

Setting Up



1) If you got your swift blender with a pump on it, fill your engine with gasoline.



2) Fill your engine with 0.6 quarts of 10-W-30 oil.



GETTING STARTED**Setting Up**

3) Remove rubber knife covers from the knife safely.



4) Prime pump by removing top plug from pump and filling with water.



5) Load onto truck using fork points, then strap unit down to your truck.



6) Hook up the water supply hose from supply tank to inlet on pump if equipped with optional pump/engine.



GETTING STARTED

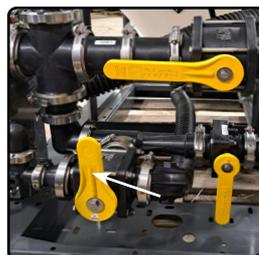
Setting Up

7) Connect discharge hose from unit to applicator.

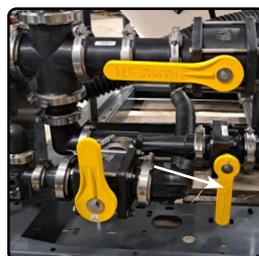


GETTING STARTED**Operating the Chemical Mix Station**

1) Close the three way source valve.



2) Close the venturi valve.



3) Open the main valve. This will allow liquid to flow from water source to pump. Ensure all other valves are in closed position.



4) For mixing chemical, open the lid, spear the jug onto the jug knife, emptying all contents.



GETTING STARTED

Operating the Chemical Mix Station

5) To rinse the jug, open the jug rinse valve while firmly holding the jug on the knife to avoid chemical spillage. Let the jug rinse for 10 seconds before turning the jug rinse valve back off.



6) To empty the mixing tank, close the main valve, open the venturi valve, switch the 3-way source valve to draw from the mixing tank. Then start your pump.



7) To properly dissolve dry chemical and increase mixing quality, turn off all valves, and turn on the agitation valve after adding your chemical to the tank.



8) If you got the optional flow meter, connect the camlock connector on the 1inch flowmeter pipe to the 1inch port on swift blender (you can draw from two chemical totes). This allows you to measure the amount of chemical from tote to applicator.



GETTING STARTED**Operating the Chemical Mix Station**

9) To rinse inductor cone, after chemical is dispensed, open tank rinse valve while pump is running to allow water to flow through inductor.



10) This unit comes equipped with a spike valve. The purpose for this is if all the valves are closed and the pump is running, this will relieve the pressure off the lines.



11) This unit comes equipped with an auxiliary rinse port. This is a fresh water supply in case any spills need to be rinsed.



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WINTERIZING

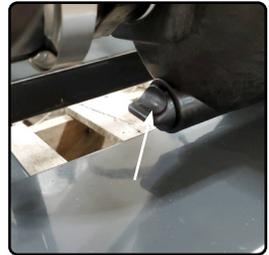
1) Blow out Plumbing Lines

Open all valves and, using compressed air, blow out hose lines to remove all water from system.



2) Drain Pump

Remove drain plug from pump to ensure all liquid is out of pump.



3) Flush with Anti-freeze

If desired, you can run RV anti-freeze through system to protect anything from freezing.



4) Store Unit Inside

Close the output valve so the remaining anti-freeze does not leak out. Store the mixing station inside to keep it out of the elements.



TROUBLESHOOTING

CONDITION	CAUSE	REMEDY
Pump will not prime	1) Insufficient motor RPM 2) Air leak on suction plumbing 3) Issues with the fittings	1) Increase motor RPM until pump primes 2) Tighten/replace fittings 3) Ensure the suction and discharge valves are open and cam-locks are tightened
Pressure drops/ fluctuates during standard operation	1) Restriction on suction line 2) Pump sucking air	1) Inspect tank and suction lines and remove restriction 2) Tighten fittings

WARRANTY

1. Poly Tank Limited Warranty - Subject to other terms in this Limited Warranty, Manufacturer warrants to the original end user that this Tank will be free from material defects caused during the manufacturing process for a period of 5 years from the Purchase Date provided such warranty to the original end user shall be extended to 10 years from the Purchase Date if the original end user registers the Tank with Manufacturer within 30 days of the Purchase Date. To register the Limited Warranty, registration must be completed in accordance with the requirements set forth at enduraplaswarranty.com

Other Products and Parts Limited Warranty - Subject to other terms in this Limited Warranty, Manufacturer warrants to the original end user that products and parts manufactured by Manufacturer (other than tanks) will be free from material defects caused during the manufacturing process for a period of 1 year from the Purchase Date unless otherwise expressly stated in writing by Manufacturer that an extended warranty applies.

2. Other Warranties Disclaimed and Excluded

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE LIMITED WARRANTY HEREIN STATED, AND MANUFACTURER EXPLICITLY DISCLAIMS AND EXCLUDES ANY AND ALL OTHER WARRANTIES INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, CUSTOM OR USAGE OF TRADE, AND COURSE OF DEALING. NO AGENT, EMPLOYEE OR REPRESENTATIVE OF MANUFACTURER HAS AUTHORITY TO BIND MANUFACTURER TO ANY REPRESENTATION OR WARRANTY EXCEPT AS STATED IN THIS LIMITED WARRANTY.

WARRANTY

3. Limitation of Liability under the Limited Warranty - In addition to those warranties disclaimed and excluded in clause 2 above, Manufacturer expressly further limits its warranty and liability under the Limited Warranty as set forth below in this clause 3.
 - 3.1. The liability of Manufacturer under this Limited Warranty is excluded to the extent that any defect has been caused or contributed to by:
 - a) any accident, contamination, tampering, willful damage, abuse, modification, improper storage, improper use (including but without limitation the storage of material) or negligent act of, or omission by, any person other than Manufacturer;
 - b) the improper installation of the Goods, or deterioration of the base on which any of the Goods rest or are mounted to;
 - c) any damage to the Goods caused by storm, wash away, landslide, mudslide, lightning, or any other natural phenomenon, vermin or other pests, and any undermining of the base of the Tank through any cause whatsoever;
 - d) the repositioning of the Goods from their original installation;
 - e) weathering or degradation of the Goods due to extreme climatic conditions;
 - f) improper installation of extra fittings;
 - g) any staining or discoloration, including from trees or ash fall-out from fires or other causes;
 - h) a Tank not being placed on a base that is free of any protruding objects of any kind;
 - i) a Tank being used for any purpose other than the storage of suitable liquids at the ambient temperatures.

WARRANTY

3.2. Without limiting the generality of clause 3.1:

- a) Manufacturer will not be liable for any personal injury, indirect or incidental damages, consequential losses, loss of liquids, loss of profit or any like claims whatsoever arising from any use of, or incidental to, or repairs to any of the Goods by a party other than Manufacturer;
- b) to the extent that any component or material (including, but without limitation the polyethylene) used in the manufacture of any of the Goods is supplied and/or manufactured by a third party, the liability of Manufacturer is limited to Manufacturer's right of redress (if any) against the third-party supplier/manufacturer;
- c) Tanks feature a vented lid at the time of manufacture. Any subsequent pressurization of the Tank by removing the vent, sealing the vent, or otherwise will cause this Limited Warranty as to such Tank to be null and void.
- d) The liability of Manufacturer under this Limited Warranty is limited to, at Manufacturer's discretion:
- e) providing a replacement Good (including shipping but excluding other replacement costs);
- f) refunding an amount equal to a sum equal to the current Retail price divided by the months in the warranty, multiplied by the months remaining in the warranty period;
- g) repairing the Good at no cost.

4. Proof of Purchase - The original invoice or other similar proof of purchase of the applicable must be provided by Purchaser to Manufacturer when making a claim under this Limited Warranty. Warranty claims must be received in writing by Manufacturer within the Limited Warranty period.

WARRANTY

5. Claims and Questions - If you have questions about this Limited Warranty or to make a warranty claim, contact Manufacturer at: customercare@enduraplas.com
6. Definitions - For this Limited Warranty the following definitions apply:
 - a) Manufacturer means Enduraplas LLC.
 - b) Purchase Date means the date upon which the applicable goods were purchased by the original end user.
 - c) Purchase Price means the actual price paid for the Tank by the original Purchaser.
 - d) Tank means the storage Tank manufactured by Manufacturer and purchased by the original end user Purchaser being the subject matter of the Limited Warranty.
 - e) Good(s) mean Tanks and/or other products or parts manufactured by Enduraplas LLC.
 - f) Limited Warranty means this written Limited Warranty.
7. State Law - Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to certain parties. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to certain parties. This limited warranty gives specific legal rights and other rights, which vary from state to state, may also apply.
8. Governing Law - This Limited Warranty will be governed by the laws of the State of Minnesota, without giving effect to any choice of law rule that would cause the application of the laws of any other jurisdiction

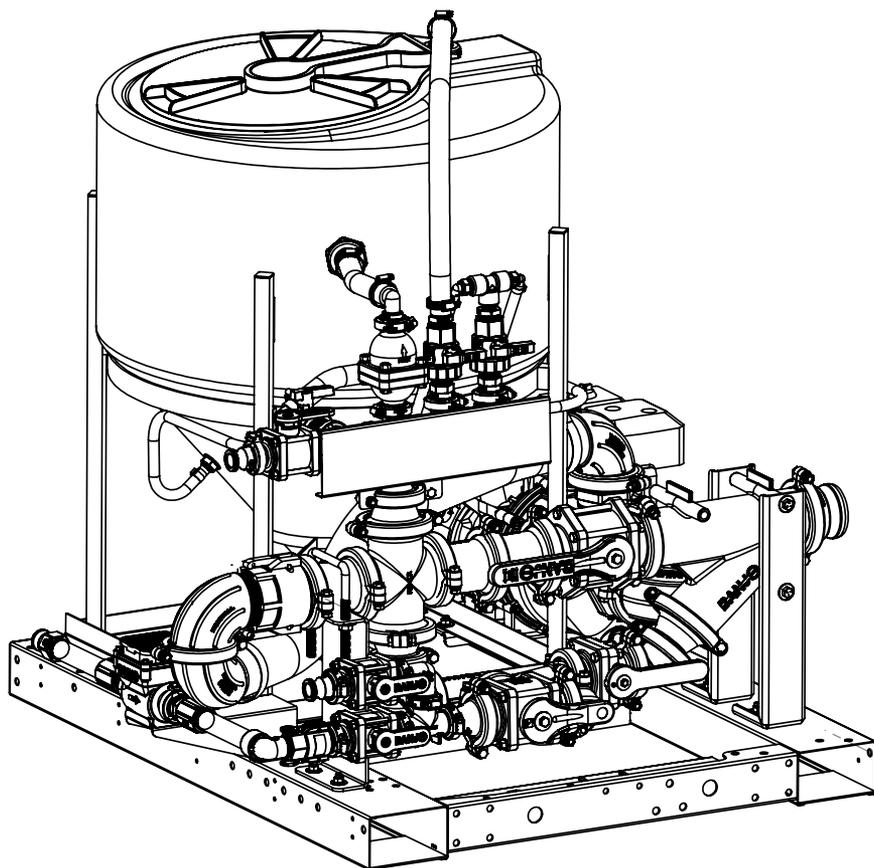
REGISTERING WARRANTY

Serial Number Location



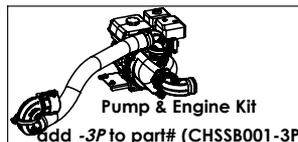
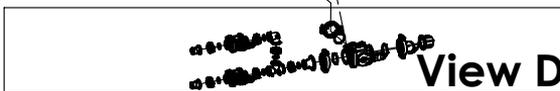
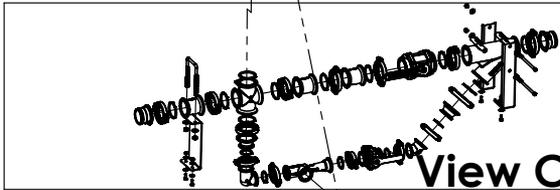
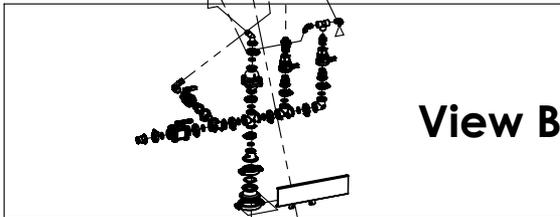
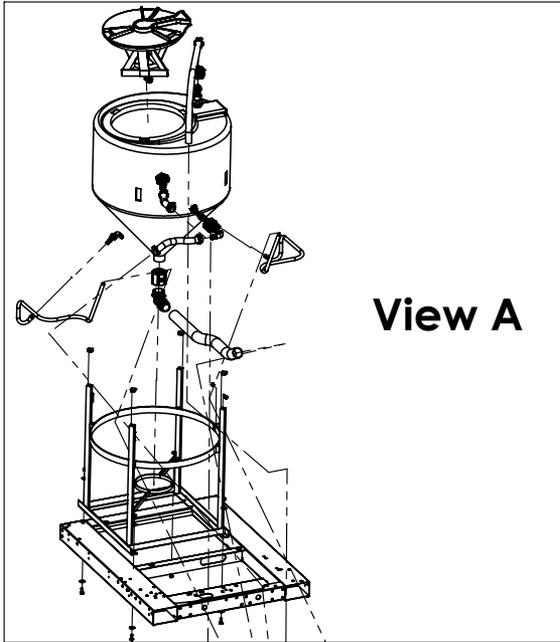
How to Activate

To double your 5-year tank warranty, visit enduraplaswarranty.com and register this product.

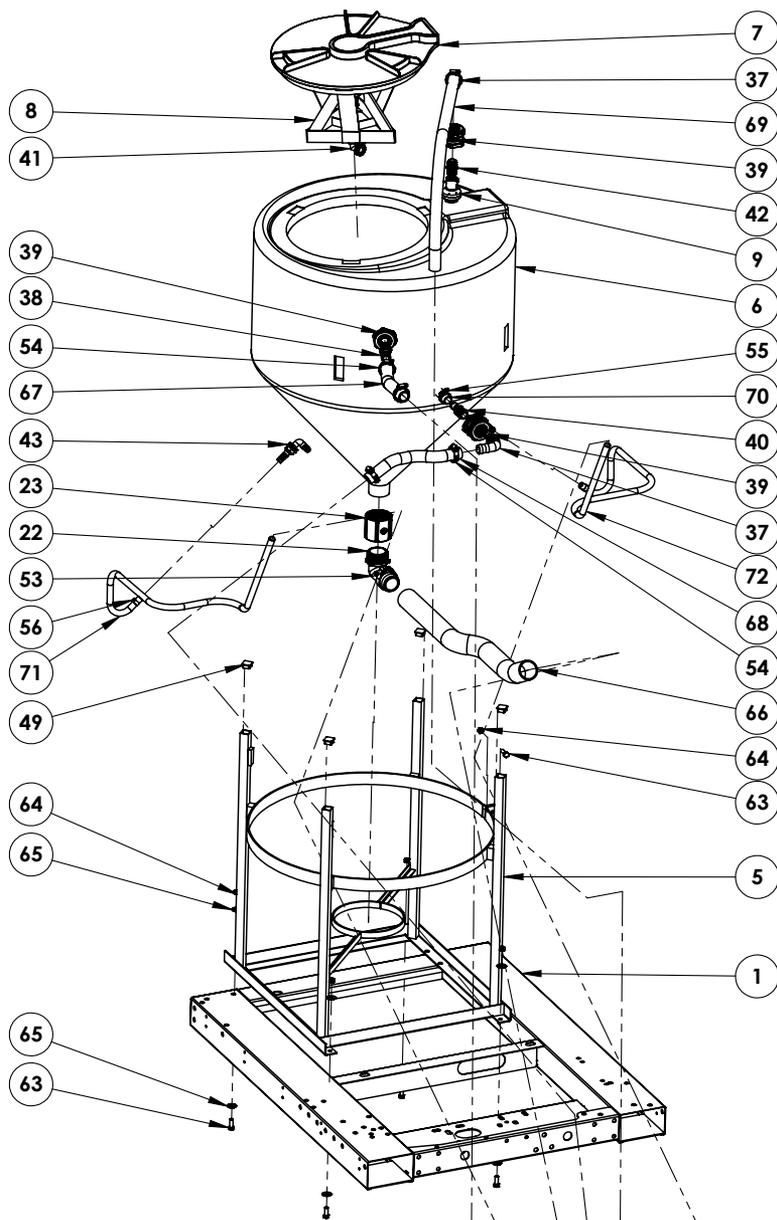


SWIFT BLENDER CHSSB001

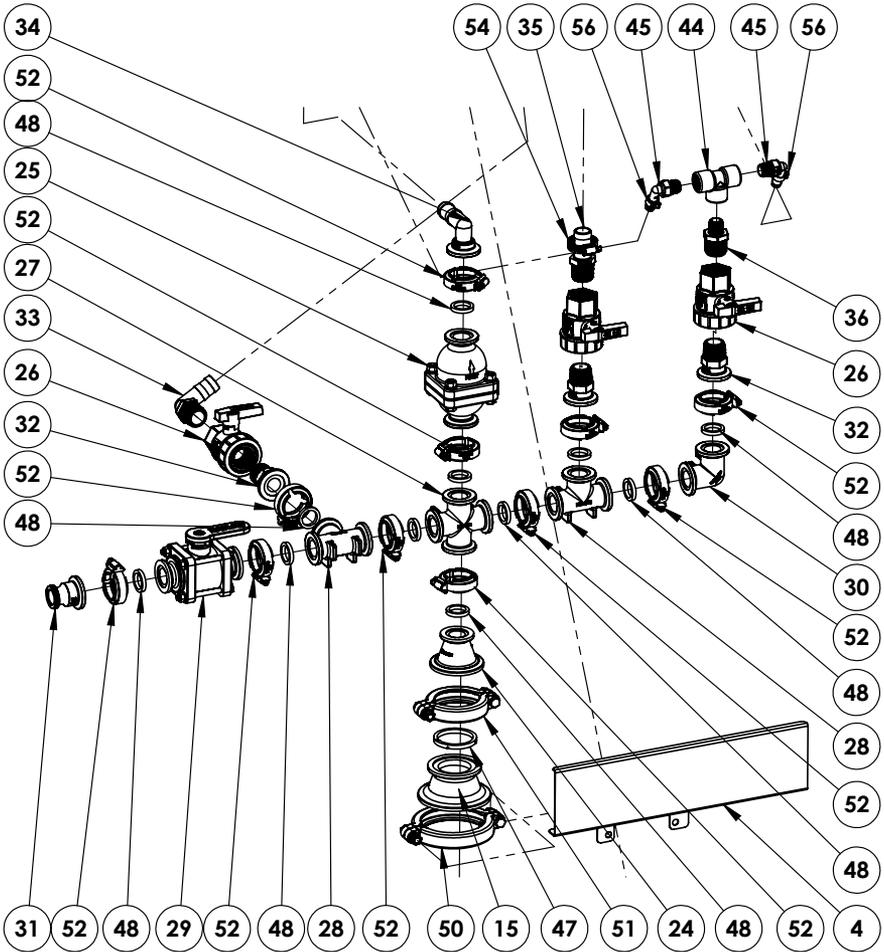
OVERVIEW



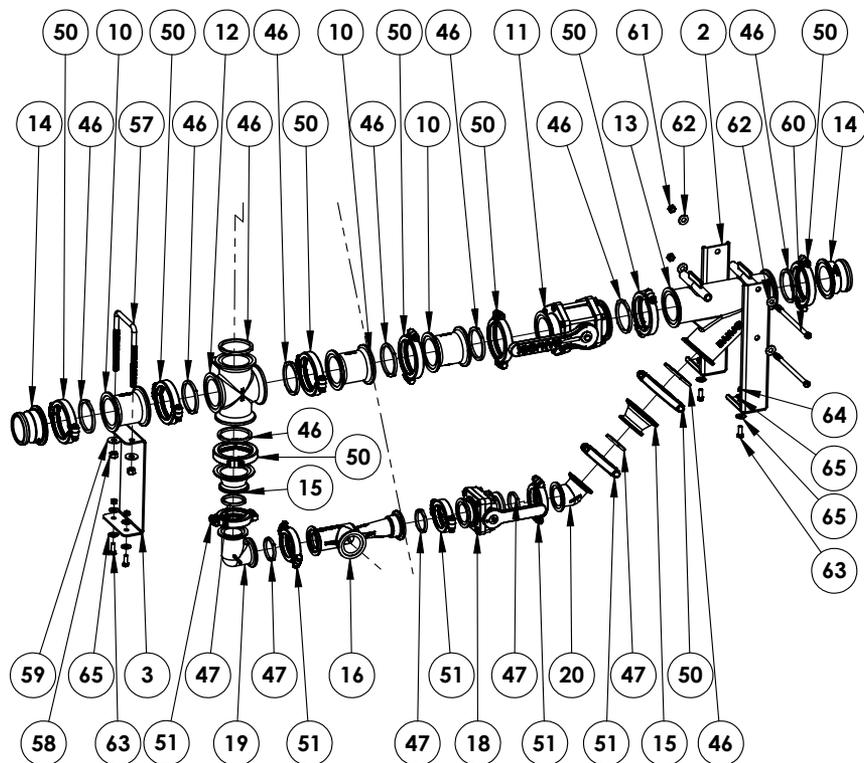
DETAIL VIEW A



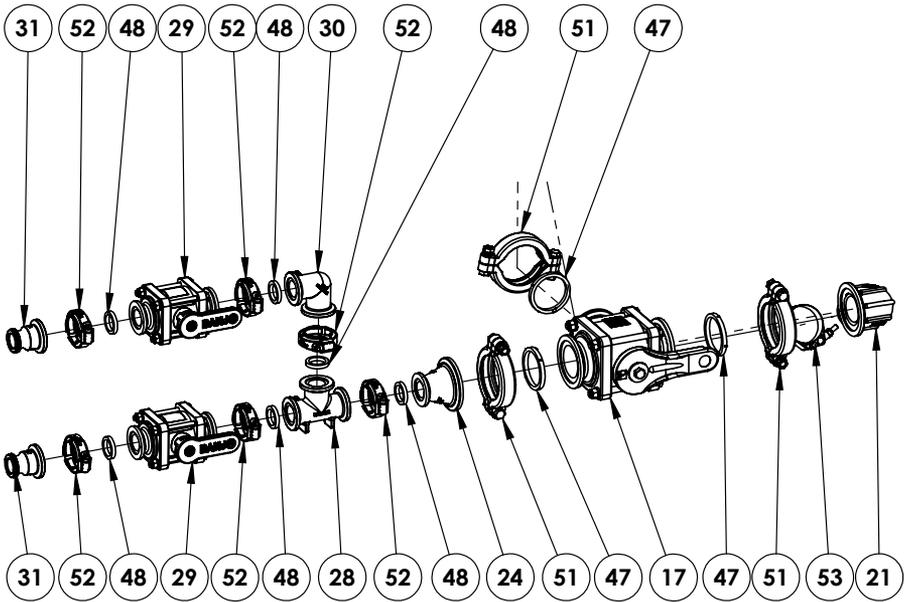
DETAIL VIEW B



DETAIL VIEW C



DETAIL VIEW D



PARTS LIST

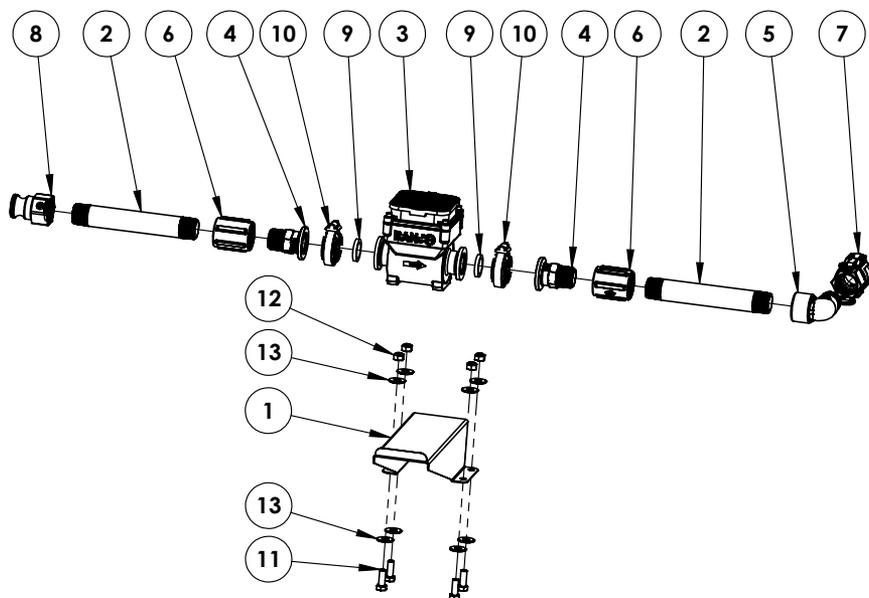
ITEM NO.	Part #	DESCRIPTION	QTY.
1	AZFB060B	Base only for FB	1
2	CSLC425	Swift Blender 3" Y Bracket	2
3	CSLC426	Swift Blender T Support Bracket	1
4	CSLC427	Swift Blender Valve Label Bracket	1
5	AZFM060CBOSS	Swift Blender Mixing Cone Frame	1
6	AMTHM060	60 Gal Mixing Tank Only	1
7	CFLP16HV	16" Hypro Lid Hinged	1
8	ASCE01	Chemblade	1
9	ATNR04	Tank Rinsing Nozzle	1
10	CBM300CPG	3" Standard Port x 3" Manifold Flange	3
11	CBMV300	3" Standard Port Manifold Valve	1
12	CBM300CR	3" Full Port Flanged Cross	1
13	CBM300Y45	3" Y 45 Manifold Fitting	1
14	CBM300A	3" Male Adapter X 3" Manifold	2
15	CBM300220CPG	3" x 2" Full Port Reducer Flange	3
16	CBMHV220A	2" Full Port Manifold Venturi	1
17	CBMV220BLSH	2" FP Bot Load Manifold Valve w/ SH Handle	1
18	CBMVS220CF	2" Full Port Stubby Manifold Valve	1
19	CBM220CPG90	2" Full Port x 2" Full Port Manifold Coupling 90°	1
20	CBM220CPG45	2" FP x 2" FP Manifold Coupling 45	1
21	CBM220BRBSWP90	2" Full Port Flange x Hose Shank Sweep	1
22	CBHB20090	2" Male Thread x 2" Hose Shank 90	1
23	CBGPLG200	2" Poly Pipe Coupling	1
24	CBM220100CPG	2" Full Port Flange x 1" Reducer Flange	2
25	CBMPRV100-100	1" Manifold Pressure Spike Valve	1
26	CVPBV2100	1 Inch FPT Union Valve	3
27	CBM100CR	1" Flanged Cross	1
28	CBM100TEE	1" Manifold Tee	3
29	CBMV100CF	1" Manifold Valve with C-Flange	3
30	CBM100CPG90	1" Manifold Coupling 90	2
31	CBM100A	1" Flange x 1" Male Adapter	3
32	CBM100MPT	1" Flange x 1" MPT	3
33	CFPE05M05B	1" MNPT x 1" Hose Barb 90	1
34	CBM100BRB90	1" Manifold x 90 Hose Barb	1
35	CFPS05M05B	1" Hose Barb	1
36	CBRN100050	1" x 1/2" Reducer Nipple	1
37	CBHB07510090	3/4" MNPT x 1" Hose Shank 90	2
38	CBHB075100	3/4" MNPT x 1" Hose Shank	1
39	CBTF075	3/4" Poly Tank Fitting	3
40	CFPS04M04B	3/4" MNPT To 3/4" Hose Shank	1

PARTS LIST

ITEM NO.	Part #	DESCRIPTION	QTY.
41	CV3EL34F	3/4" FNPT x 3/4" Hose Barb Poly Elbow	1
42	CFPN04M04M	3/4" Short Nipple	1
43	CFBE02B02BC	1/2" Thru Tank Elbow	2
44	CBTEE050	1/2" Poly Pipe Tee	1
45	CBHB05090	1/2" Male Thread x 1/2" Hose Shank 90	2
46	CBM301G	3" Manifold Gasket with Rib	10
47	CBM221G	2" FP Manifold Gasket with Rib	9
48	CBM100G	1" Manifold Gasket	17
49	CPFP05	1" Square Plug	4
50	CBFC300B	3" Bolted SS Flange Clamp	10
51	CBFC220B	2" Bolted SS Flange Clamp	9
52	CBFC100	1" Worm Screw Flange Clamp	17
53	CBTC231	2" T-Bolt Hose Clamp 2.31 MIN	2
54	CFCW003	Clamp For 1" Hose	6
55	CFCW001	Clamp For 3/4" Hose	2
56	CFCC003	Clamp for 1/2" Hose	4
57	AVBSU06	7" Stainless Steel U-bolt	1
58	CHNZN0525	1/2" Nylock Nut	2
59	CHWZF055	1/2" Flat Washer	2
60	CHBZ043325	7/16" x 8" Bolt	2
61	CHNZN0425	7/16" Nylock Nut	2
62	CHWZF045	7/16" Flat Washer	4
63	CHBZ030525	3/8" x 1" Bolt	9
64	CHNZN0325	3/8" Nylock Nut	9
65	CHWZF035	3/8" Flat Washer	16
66	CLUPEB10009	2" Hose	1
67	CLUESB020005	1" EPDM Hose	1
68	CLUESB020005	1" EPDM Hose	1
69	CLUESB020005	1" EDPM Hose	1
70	CLUESB020004	3/4" EPDM Hose	1
71	CLUESB020002	1/2" EPDM Hose	1
72	CLUESB020002	1/2" EDPM Hose	1

FLOW METER KIT

ITEM NO.	Part #	DESCRIPTION	QTY.
1	CSLC429	Swift Blender Flow Meter Bracket	1
2	AZFPM019	1" x 7-3/4" Poly Pipe For Deicing Boom	2
3	CBMFM100	1 IN Manifold Flowmeter	1
4	CBM100MPT	1" Flange x 1" MPT	2
5	CBSL10090	1 Poly Street Elbow 90	1
6	CBCPLG100	1 Poly Pipe Coupling	2
7	CB100D	Female Coupler x 1" FNPT	1
8	CB100A	1" Male Adapter x 1" FNPT	1
9	CBM100G	1" Manifold Gasket	2
10	CBFC100	1" Worm Screw Flange Clamp	2
11	CHBZ030525	3/8" x 1" Bolt	4
12	CHNZN0325	3/8" Nylock Nut	4
13	CHWZF035	3/8" Flat Washer	8



STAY CONNECTED

Want to be kept up-to-date on the latest news and information from Enduraplas? Enduraplas has several ways to get easy access to news alerts and instant updates on what's happening in the world of Enduraplas. Join the Enduraplas Community and connect with other Enduraplas fans, participate in giveaways, see videos of Enduraplas products in action, give us input on Enduraplas products, share your Enduraplas photos, and much more.



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