



Spray Fill Xpress Operator's Manual

SFX810



CAUTION

READ & UNDERSTAND OPERATOR'S
MANUAL BEFORE OPERATING MACHINE.

See www.summersmfg.com for latest version of all Summers Operator's Manuals.

SUMMERS MANUFACTURING CO., INC.

WEB SITE: www.summersmfg.com

DEVILS LAKE, NORTH DAKOTA 58301

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Warranty

Summers warrants only products of its manufacture against operational failure caused by defective materials or workmanship which occur during normal use within 36 months from the date of purchase by the end user from Summers' dealer.

Summers' obligation is to replace free of charge any part of any product that Summers inspection shows to be defective excluding transportation charges to Devils Lake, ND and return and also excluding all transportation costs from Summers' dealer to the dealer's customer and all other costs such as removal and installation expense.

Summers shall not be liable for loss of time, manufacturing costs, labor, material, loss of profits, consequential damages, direct or indirect, because of defective products whether due to the rights arising under the contract of sale or independently thereof, and whether or not such claim is based on contract, tort or warranty.

Written permission for any warranty claim return must be first obtained from authorized Summers personnel. All returns must be accompanied with a complete written explanation of claimed defects and the circumstances of operational failure.

Written warranty for all component parts used in the manufacture of Summers products is available upon request. Warranty of such component parts will be determined by said component manufacturer upon their inspection of the claimed defective part.

This express warranty is the sole warranty of Summers. There are no warranties, which extend beyond the warranty herein expressly set forth. The sales for products of Summers under any other warranty or guarantee express or implied is not authorized. This warranty voids all previous issues.

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DEVILS LAKE, NORTH DAKOTA 58301

01/16

GENERAL INFORMATION

This book is composed of three basic sections: Safety, Operation and Maintenance, and Parts. The Operation Section provides information for the proper operation and maintenance of your Summers Spray Fill Xpress model SFX810. A complete parts breakdown is provided in the Parts Section.

Parts are referenced in each drawing with the Summers Manufacturing Part Number. Use this Part Number when ordering replacement parts from your Summers dealer.

It is the policy of this company to improve its products whenever possible and practical to do so. We reserve the right to make changes or improvements in the design or construction of parts at any time without incurring the obligation to install such changes on products previously delivered.

Summers Manufacturing Company, Inc. strongly recommends that each Operator READ and UNDERSTAND the Operator's Manual before using the machine. In addition, this Operator's Manual should be REVIEWED at least ANNUALLY thereafter.

Scan code to the right for the latest version of all Summers Operator's Manuals.

Contact Information

Summers Manufacturing Company, Inc.

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Devils Lake, ND 58301

Toll Free: 1-800-732-4392

Local: 1-701-662-5391 (Devils Lake, ND)

1-605-226-3644 (Aberdeen, SD)

www.summersmfg.com



Owner Registration Information

Use this information when ordering parts (Serial Number located on Spray Fill Xpress skid).

OWNER REGISTRATON

Name _____

Size _____

Address _____

Serial Number _____

City _____

Stat/Prov. _____

Date Purchased _____

Mail Code _____

Dealer _____

OPERATOR ORIENTATION

The directions left, right, front and rear mentioned throughout this manual are as seen from the operator's position facing the front of the Spray Fill Xpress.



SAFETY-ALERT SYMBOL



This symbol is used to denote possible Danger and
Care should be taken to prevent bodily injury.

This symbol means:

ATTENTION! BECOME ALERT!

YOUR SAFETY IS INVOLVED!

Definition of each **Signal Word** used in conjunction with the **Safety-Alert** symbol.



Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.



Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

USING CHEMICALS?



PROTECT YOURSELF!

1. ALWAYS READ AND FOLLOW CHEMICAL MANUFACTURERS' WARNINGS, INSTRUCTIONS AND PROCEDURES BEFORE USING.
2. WEAR APPROPRIATE PROTECTIVE GEAR WHICH MAY INCLUDE BUT NOT LIMITED TO; HARD HAT, PROTECTIVE SHOES WITH SLIP RESISTANT SOLES, GOGGLES, RUBBER OR NEOPRENE GLOVES, SKIN PROTECTION GEAR, RESPIRATOR OR FILTER MASK.
3. HANDLE CHEMICALS WITH EXTREME CARE.
4. POST THE POISON CONTROL EMERGENCY TELEPHONE NUMBER FOR YOUR AREA NEAR BY BEFORE USING CHEMICALS. THE APPROPRIATE NUMBER FOR YOUR AREA CAN BE FOUND INSIDE YOUR TELEPHONE BOOK. HAVE CHEMICAL CONTAINER LABEL READY WHEN SEEKING MEDICAL ATTENTION.

GENERAL SAFETY PRACTICES

1. READ AND UNDERSTAND the Operator's Manual before using equipment. Review at least annually thereafter.
2. Only trained, competent persons shall use the Spray Fill Xpress. An untrained operator is not qualified to use the Spray Fill Xpress.
3. VERIFY all safety devices and shields are in place before using any equipment.
4. KEEP hands, feet, hair and clothing away from moving parts.
5. STOP engine, place all controls in neutral, set parking brake, remove ignition key, and wait for all moving parts to stop before servicing, adjusting, maintaining or unplugging.
6. USE EXTREME CARE when cleaning, filling or making adjustments.
7. AVOID having excess chemical stored after spraying.
8. ONLY STORE chemicals in their original containers in a safe area.
9. KEEP CHILDREN AWAY from chemicals and sprayer equipment.

SAFETY DURING TRANSPORT

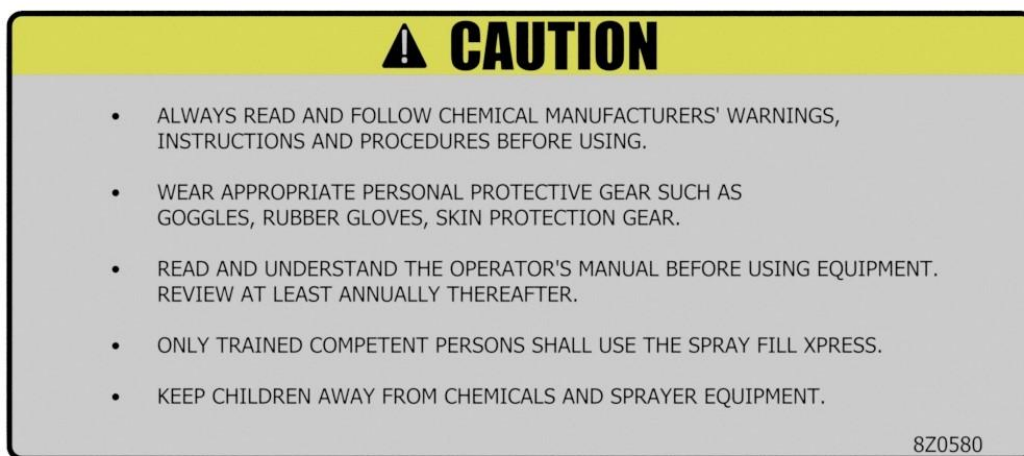
VERIFY mounting to trailer is secure before transporting.

NEVER transport Spray Fill Xpress with chemical in tanks.

ALWAYS lower and secure Spray Fill Xpress lid with supplied latches before transport.

SAFETY DECALS

8Z0580 SFX General Caution Decal



SAFETY DECALS CONTINUED

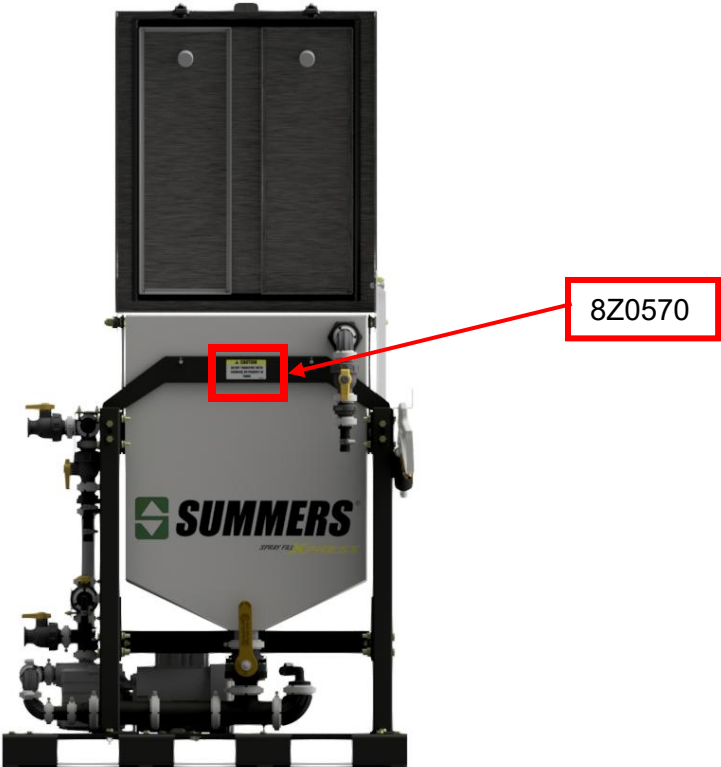
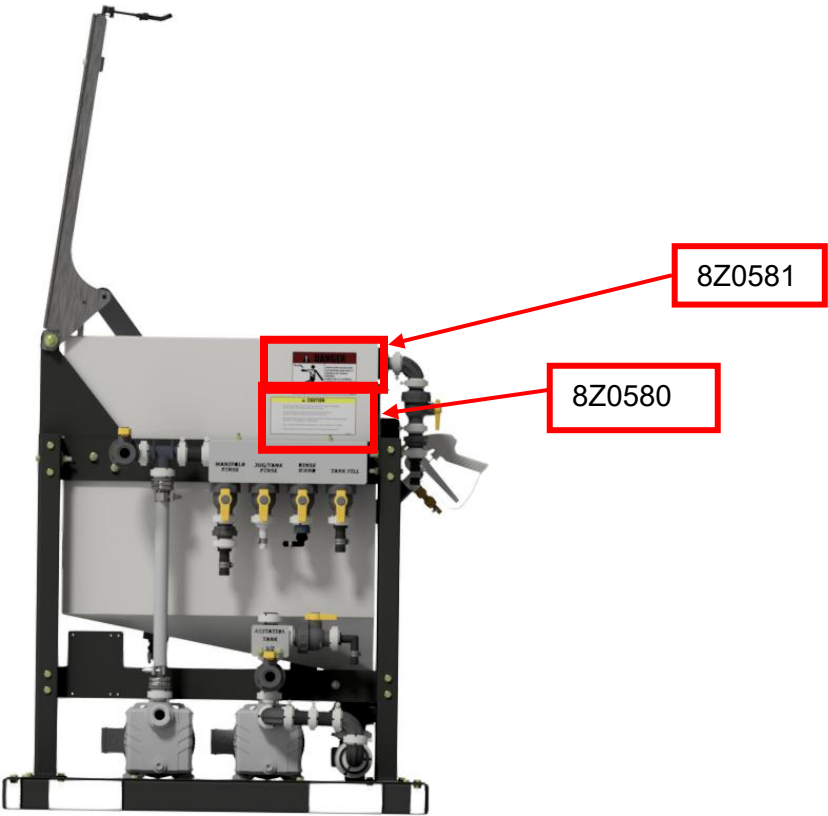
8Z0570 Caution Do Not Transport with Chemical or Product in Tanks



8Z0581 Electrocution Danger Decal

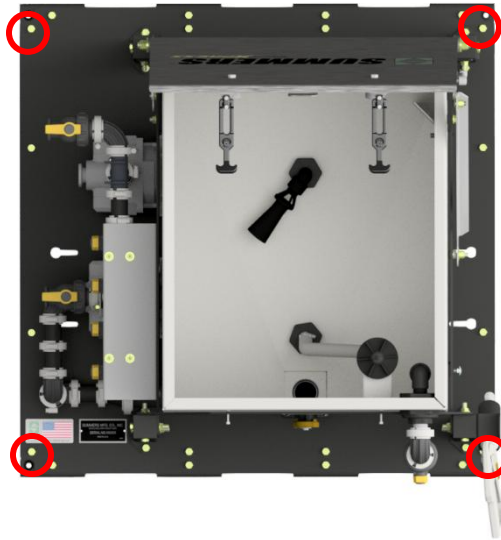


SAFETY DECAL LOCATIONS



ASSEMBLY AND INSTALLATION

The Spray Fill Xpress is a free-standing unit. The Spray Fill Xpress has forklift pockets integrated into its frame to allow for easy positioning. When mounting to a trailer for example, hardware will have to be supplied by user to secure the Spray Fill Xpress by the (4) mounting holes in the base of the Spray Fill Xpress to trailer bed. (3/8" diameter bolts Grade 5, NO LAG BOLTS)

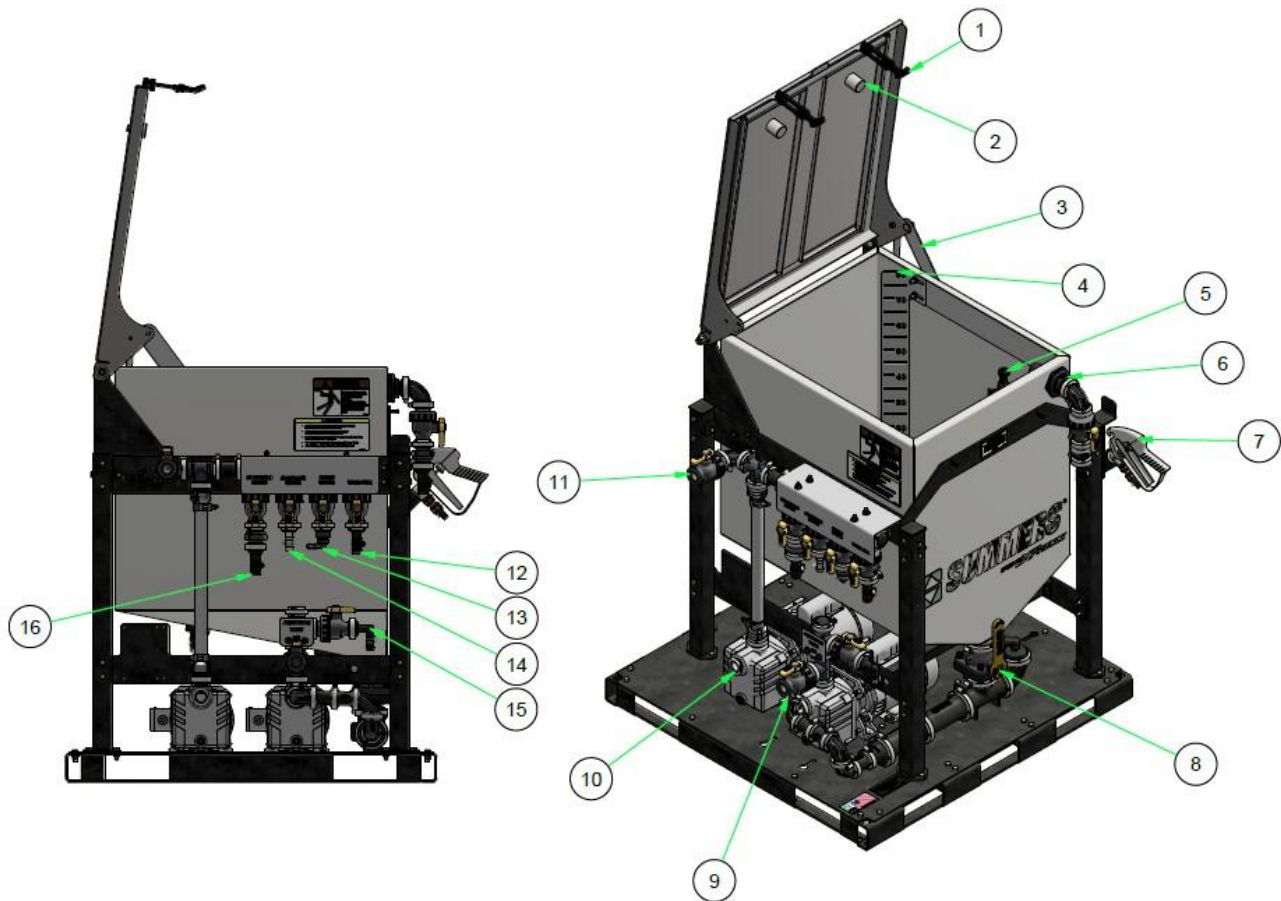


When choosing the layout of the Spray Fill Xpress, choose a location close to the water supply tank and bulk chemical storage. Minimizing the length, bends and fittings for water and chemical supply hoses will maximize the performance of the system. Place water pump close to the Spray Fill Xpress if pump purchased separately. Keep the work area in front of the Spray Fill Xpress clear of hoses and trip hazards.

Plumb the water to the suction side of the pump. The pump output is attached to the left side of the Spray Fill Xpress. The chemical pump outlet is on the left side of the Spray Fill Xpress. (Optional Pump package shown.)



OPERATION



1. Lid Rubber Latch
2. Tank Rinse Plunger
3. Lid Safety Lock
4. Tank Level Indicator
5. Jug Tank Rinse
6. Bulkhead for Bulk Chemical or Tank Fill
7. Rinse Wand
8. Tank Valve
9. Chemical Output Valve to Sprayer
10. Fresh Water input
11. Auxiliary Fresh Water
12. Tank Fill Fresh Water ON/OFF
13. Rinse Wand ON/OFF
14. Jug Tank Rinse ON/OFF
15. Tank Agitation ON/OFF
16. Manifold Rinse ON/OFF

OPERATION

It is the responsibility of the owner or operator to read and understand this manual, the sprayer manual and the chemical container label(s) before starting. Follow safety instructions exactly.



WARNING

1. Read and understand the Operator's manual and all safety signs before operating, maintaining, adjusting the Spray Fill Xpress
2. Read chemical manufactures' warnings, instructions and procedures before starting and follow them exactly.
3. Wear safety goggles, rubber gloves and protective clothing whenever working with the Spray Fill Xpress.
4. Keep all shields and guards in place when operating.
5. Clear area of all bystanders, especially children, before starting.
6. Review safety instructions annually.



WARNING

Transfer pump(s) cannot be operated without water. Seal damage will occur.

Read manufacturer's owner manual for further instruction on use and maintenance of electric motor and pump.

OPERATION

Description

Spray Fill Xpress chemical fill system is designed to mix fluids and dry chemicals in a self-contained system quickly, easily, and safely. The Spray Fill Xpress operates by receiving water into a tank where liquid or dry chemicals are mixed with the agitation system. Then the products are drawn from a 304 Stainless Steel tank, and routed to the sprayer.

Intended Uses

The Spray Fill Xpress is designed and constructed to be a part of applications that require rapid mixing of a recipe of multiple liquid and or dry chemicals and transport them to the sprayer tank via some carrier that could be water. The Spray Fill Xpress can be used in a wide variety of conditions, but must be used in outdoor or well-ventilated areas.

Unintended Uses

DO NOT use the Spray Fill Xpress with explosive materials.

DO NOT operate the Spray Fill Xpress with missing, damaged, or leaking parts.

DO NOT use the Spray Fill Xpress in applications where fluid could be used for human consumption.

DO NOT use the Spray Fill Xpress if it is not properly secured in mobile applications.

DO NOT exceed the maximum pressure of 75 psi when using the Spray Fill Xpress.

Initial Use / Season Startup

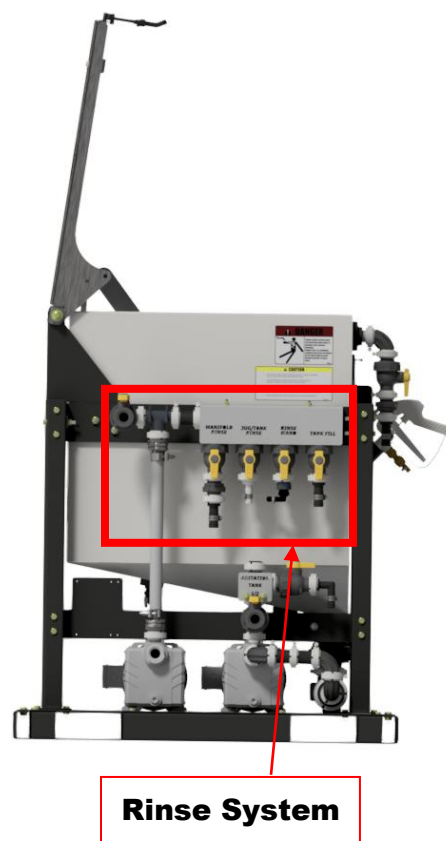
After the Spray Fill Xpress has been installed, a complete system check should be done to verify the plumbing is connected properly and leak free. It is recommended to do the system check again at the beginning of each spray season. Before adding chemical to the system, use only water and run the system as it would during normal operation. Open and close all valves to simulate operation.

If there are any leaks tighten flange clamps or fittings. If the leak continues, disassemble the connection and check the gasket in flanged connections and reassemble. In threaded connections, apply thread sealant and tighten fitting.

OPERATION

Before Filling Sprayer

1. Park Spray Fill Xpress vehicle on a firm, level surface large enough for good access of your field sprayer.
2. Ensure all Spray Fill Xpress tank valves and rinse valves are Closed or in OFF position prior to starting pump(s) and inspect for leaks.
3. Open Spray Fill Xpress lid and lock the Lid Safety Lock into place so wind cannot close the lid on the operator.
4. Inspect tanks for cleanliness, remove foreign material as necessary.
5. Open tank fill valves and turn on fresh water pump. Fill tank to desired amount.
6. Measure required amount of chemical into each tank using flowmeter or other accurate measuring vessel. The Tank Level Indicators in each tank are for reference and not calibrated for use.
7. Each tank is equipped with a Jug Rinse system. It can be used by pushing down the Jug Rinse nozzle with the container opening. Pump needs to be operating, Jug Rinse Valve in ON position.
8. Each container should be rinsed 30 seconds or longer to ensure the container is clean.
9. Mixing and keeping product in suspension can be achieved by opening the tank valve and opening the agitation valve to the same tank. Turn the chemical pump on. Ensure the correct agitation valve is used on the same tank. Agitation can be throttled by how much the valve is opened.



OPERATION

Filling Sprayer

1. The Spray Fill Xpress tank(s) contain the desired chemicals as measured in previous steps.
2. Open tank valve and open chemical pump output valve. Turn on pump.
3. Once sprayer is filled. Close chemical pump output valve. If the agitation valve is open, pump can be left on to circulate product. If all valves are closed do not leave pump on. Pump damage will occur.

Rinsing Spray Fill Xpress

1. Rinse each tank by using the Rinse Wand or close the lid and use the Tank/Jug Rinse. To Rinse with the Rinse Wand, Start fresh water pump. Turn Rinse Wand Valve to ON. To use Tank/Jug Rinse, Start fresh water pump. Turn Tank/Jug Rinse Valve to ON and close the lid. A combination of Rinse Wand and Tank/ Jug Rinse may be needed to clean tanks.
2. After tanks have been rinsed close all Tank Valves and perform a Manifold Rinse. Start fresh water pump. Turn Manifold Rinse Valve to ON. Open Chemical output valve and Start Chemical pump. Discharge rinse water into sprayer or a proper container for disposal. Operate for at least 30 seconds and turn Manifold Rinse Valve to OFF.



OPERATION

Transporting Spray Fill Xpress

1. NEVER transport Spray Fill Xpress with chemical in tanks.
2. Close Lid by unlocking Lid Safety Lock and lowering. Secure Lid with Rubber Lid Latches.
3. Secure any loose chemical containers.

Maintenance

Maintenance Safety

Wear safety goggles, rubber gloves and protective clothing whenever working with the Spray Fill Xpress.

STOP engine, place all controls in neutral, remove ignition key and wait for all moving parts to stop before servicing. Unplug from main power source.

ALWAYS make sure that pressure is relieved from plumbing before servicing.

USE EXTREME CARE when making adjustments.

KEEP CHILDREN AWAY from machinery at all times.

Daily Maintenance

Check all plumbing components for leaks.

Check for any loose or missing fasteners.

Check Valve operation and condition.

Periodic Maintenance

Check tightness of all fasteners and clamps.

Check for damaged or worn parts. Replace as needed.

Storage

Clean and remove all excess dirt and debris from Spray Fill Xpress.

To prevent rusting, repaint any areas that have been worn, chipped, or scratched.

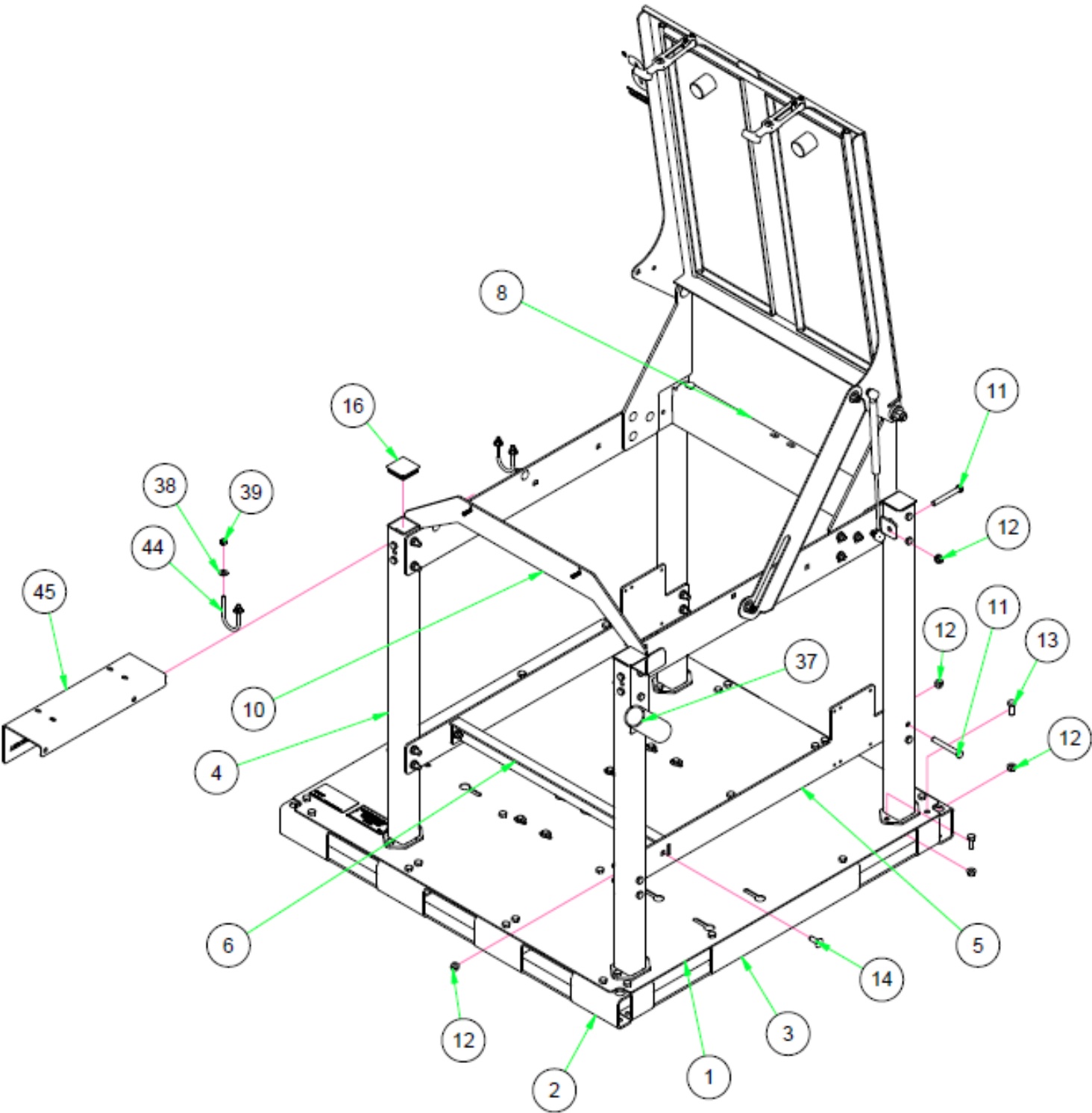
Storing the Spray Fill Xpress below 32 degrees Fahrenheit or 0 degrees Celsius.

Clean out any remaining water in the system. Clean out the Rinse System Rinse Wand, Tank/Jug Rinse, Manifold Rinse. Drain pump(s) by removing drain plug. Compressed air may be used. Be certain to never exceed the max 75 psi limit of the system. Leave all Valves partially open. Another alternative is to use RV antifreeze. Fill all plumbing with RV antifreeze. Mix to proper freeze protection per manufacturer's instructions.

OPERATION

There are two water pump packages that can be purchased in addition to the Spray Fill Xpress. Both packages contain the same pumps only the supplied voltage is different. One package will be 120v with two power plugs. And the second package will be 230v with one power plug.

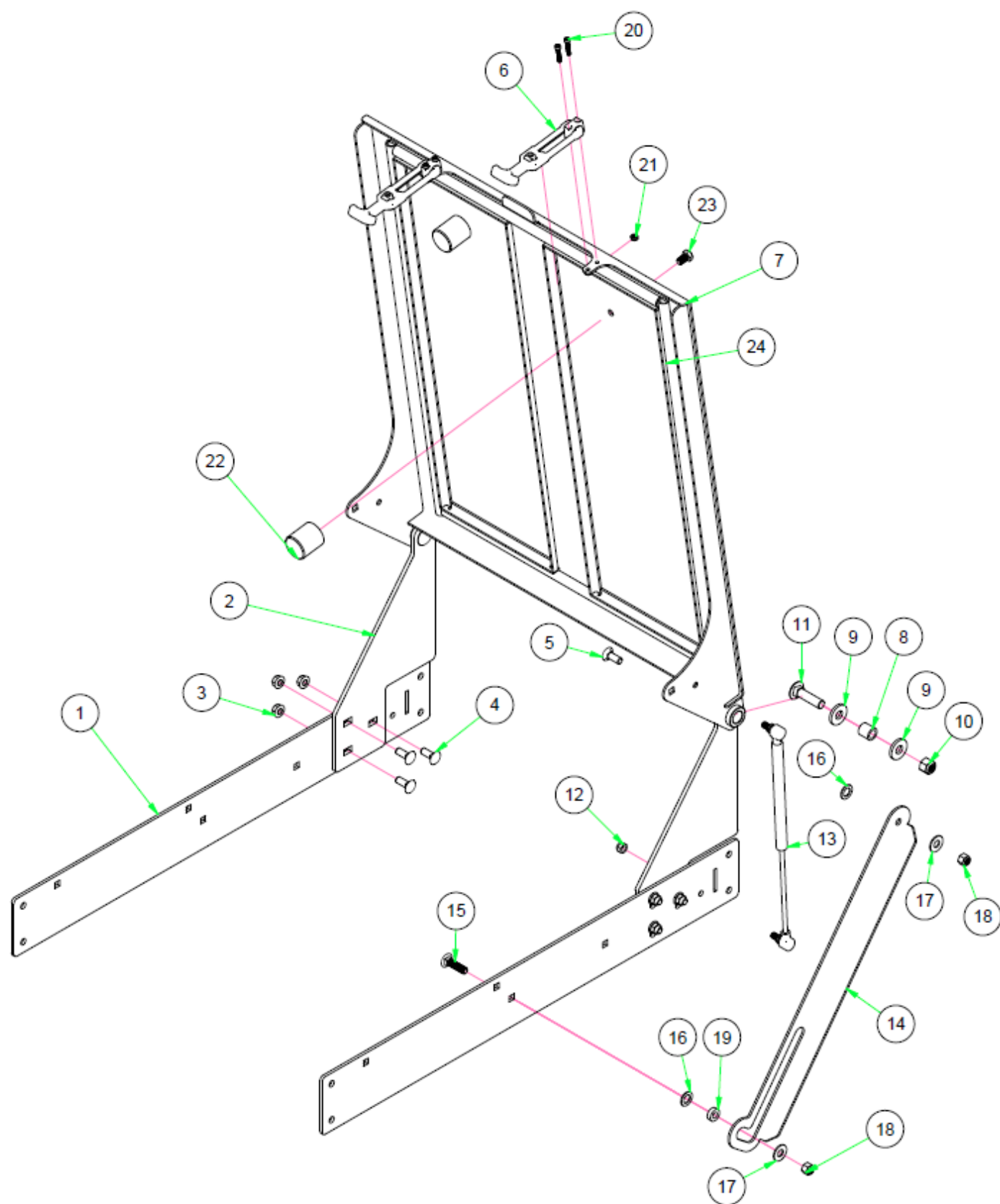
BASE ASSEMBLY



BASE ASSEMBLY

ITEM	PART NUMBER	DESCRIPTION
1	8F0000	SKID BASE TOP
2	8F0015	FORK CHANNEL 3H
3	8F0016	FORK CHANNEL 2H
4	8F0017	SFX LEG
5	8F0018	BASE LOWER PLATE
8	8F0021	BASE TANK MOUNT
9	8F0022	HINGE BRACKET
10	8F0023	FRONT LATCH BRACKET
11	8X0016	BOLT 3/8-16NC X 3" GR5 YZ
12	8X0203	NUT 3/8"-16NC SERFLANG GR2 YZ
13	8X0002	BOLT 3/8-16NC X 1" GR5 YZ
14	8X1110	CRG 3/8-16NC X 1" GR2 ZN
16	8L0305	CAP PLUG 2" 11GA
37	8L3377	DRONE FILL RINSE WAND HOLDER
38	8X0332	WASHER 1/4"(5/16" ID) FLAT YZ
39	8X0222	NUT 1/4"-20NC NY-LOCK GR2 YZ
44	8S0279	U-BOLT 1/4 X 1-1/2 RND
45	8F6106	DRONE RINSE PANEL

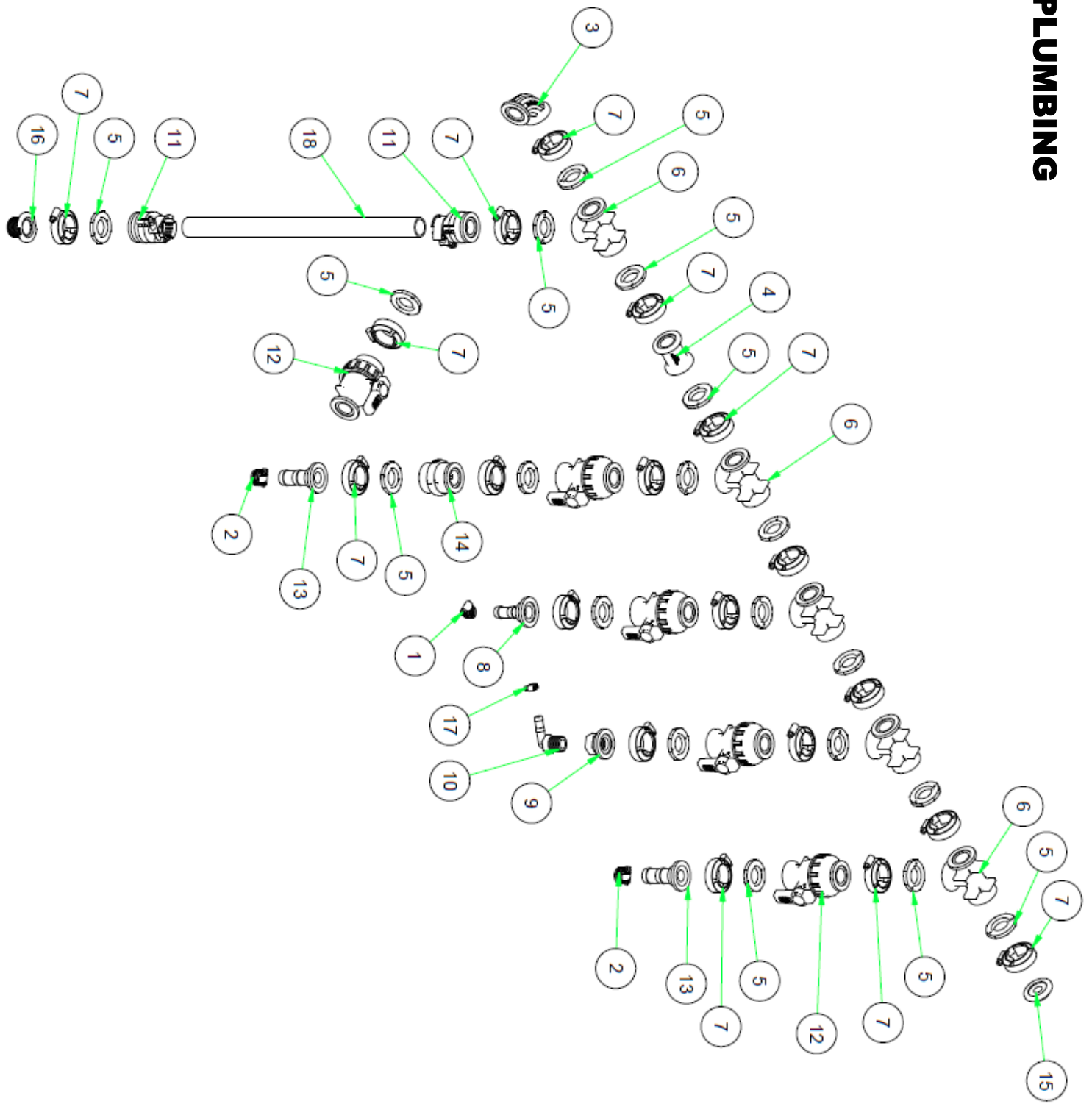
LID ASSEMBLY



LID ASSEMBLY

ITEM	PART NUMBER	DESCRIPTION
1	8F0020	BASE UPPER PLATE
2	8F0022	HINGE BRACKET
3	8X0203	NUT 3/8"-16NC SERFLANG GR2 YZ
4	8X1110	CRG 3/8-16NC X 1" GR2 ZN
5	8X1112	CRG 3/8-16NC X 1" SS
6	8F0424	RUBBER LATCH STRAP
7	8F6003	DRONE FILL LID
8	8F0400	UHMW HINGE BUSING
9	8X0330	WASHER 17/32"ID X 1.25"OD YZ
10	8X0242	NUT 1/2"-13NC NY-LOCK GR5 YZ
11	8X0065	CRG 1/2-13NC X 2" GR5 YZ
12	8X0212	NUT 5/16"-18NC NY-LOCK GR2 YZ
13	8F0416	75# GAS SPRING
14	8F6105	LOCKARM FAST FILL LID
15	8X1113	CRG 3/8-16NC X 1.5" SS
16	8X0319	WASHER 17/32"IDX7/8ODX16GA YZ
17	8X0320	WASHER 3/8"(7/16" ID)FLAT YZ
18	8X0202	NUT 3/8"-16NC NY-LOCK GR2 YZ
19	8F0004	STAINLESS STEEL BOLT SPACER
20	8X0161	SCREW SKT HD 10 X 24 X 1" SS
21	8X0207	NUT THIN 10 X 24 NYLOCK SS
22	8F6100	RINSEBALL DEPRESSER SS304
23	8X0018	SS 3/8 X 16NC - 1/2" BOLT
24	8F0420	SEAL RUBBER TRIM LOC 15-

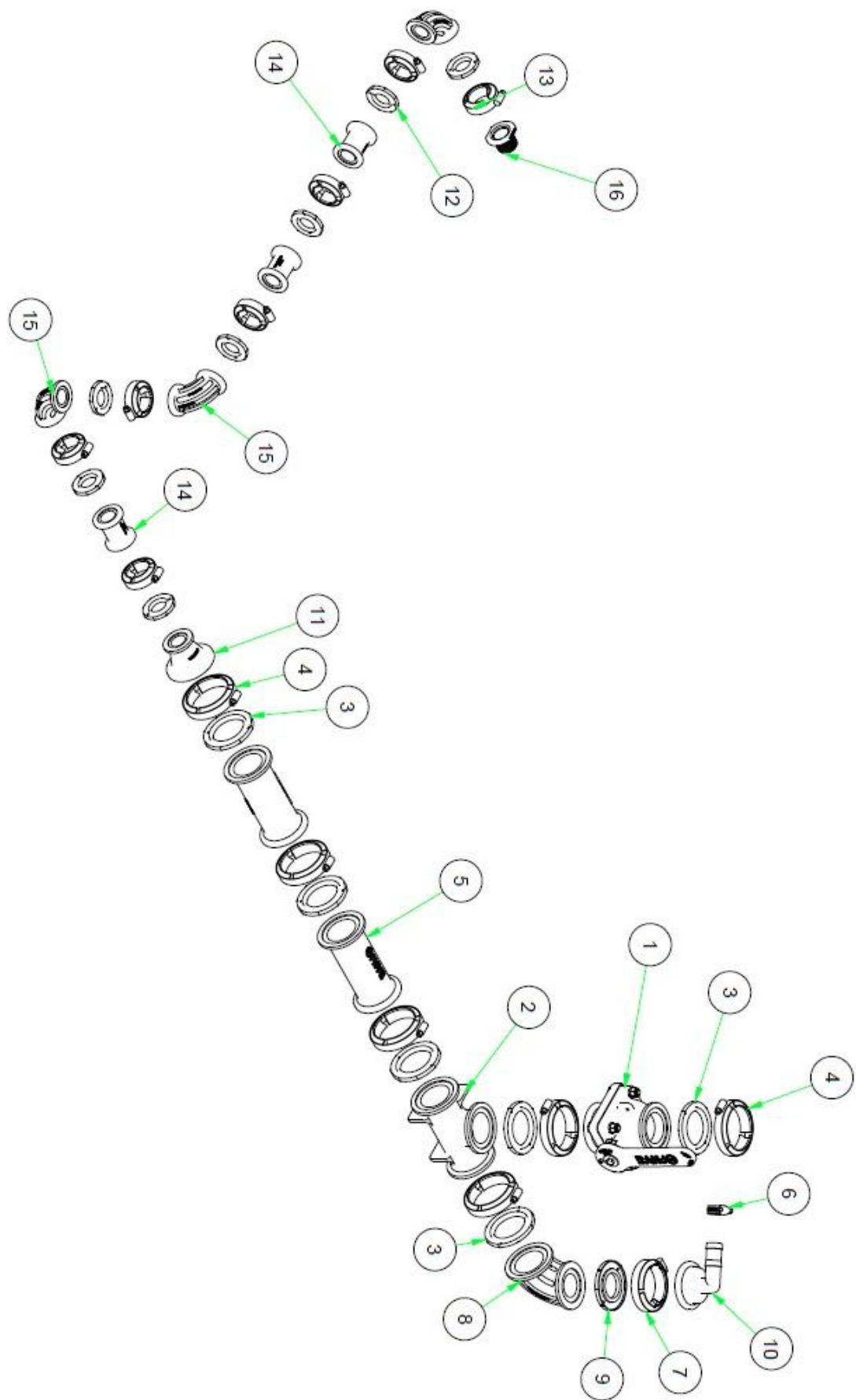
RINSE PLUMBING



RINSE PLUMBING

ITEM	PART NUMBER	DESCRIPTION
1	8A1007	CLAMP HOSE 3/4" #12
2	8A1009	CLAMP HOSE 1" #16
3	8A2357	1" MANIFOLD SWEEP ELBOW
4	8A2358	FLANGE 1"x1"x2.25"
5	8A2381	FLANGE GASKET 1" HYPRO
6	8A2294	FLANGE TEE M100
7	8A2232	FLANGE CLAMP FC100 WORM SCREW
8	8A2284	FLANGE M100 X 3/4" HB
9	8A2340	FLANGE M100 X 3/4" FPT
10	8A2108	ELBOW 1/2" HB X 3/4 MPT
11	8A2171	1" MANIFOLD PIPE ADAPTER
12	8A2349	1" MANIFOLD FP VALVE
13	8A2285	FLANGE M100 X 1" HB
14	8A2286	FLANGE 1" CHECK VALVE
15	8A2281	FLANGE 1" PLUG
16	8A2268	FLANGE 1" X 1" MPT SS
17	8A1003	CLAMP HOSE 1/2" MINI
18	8F6129	PIPE 1" SCH 40 SS X 19.25"

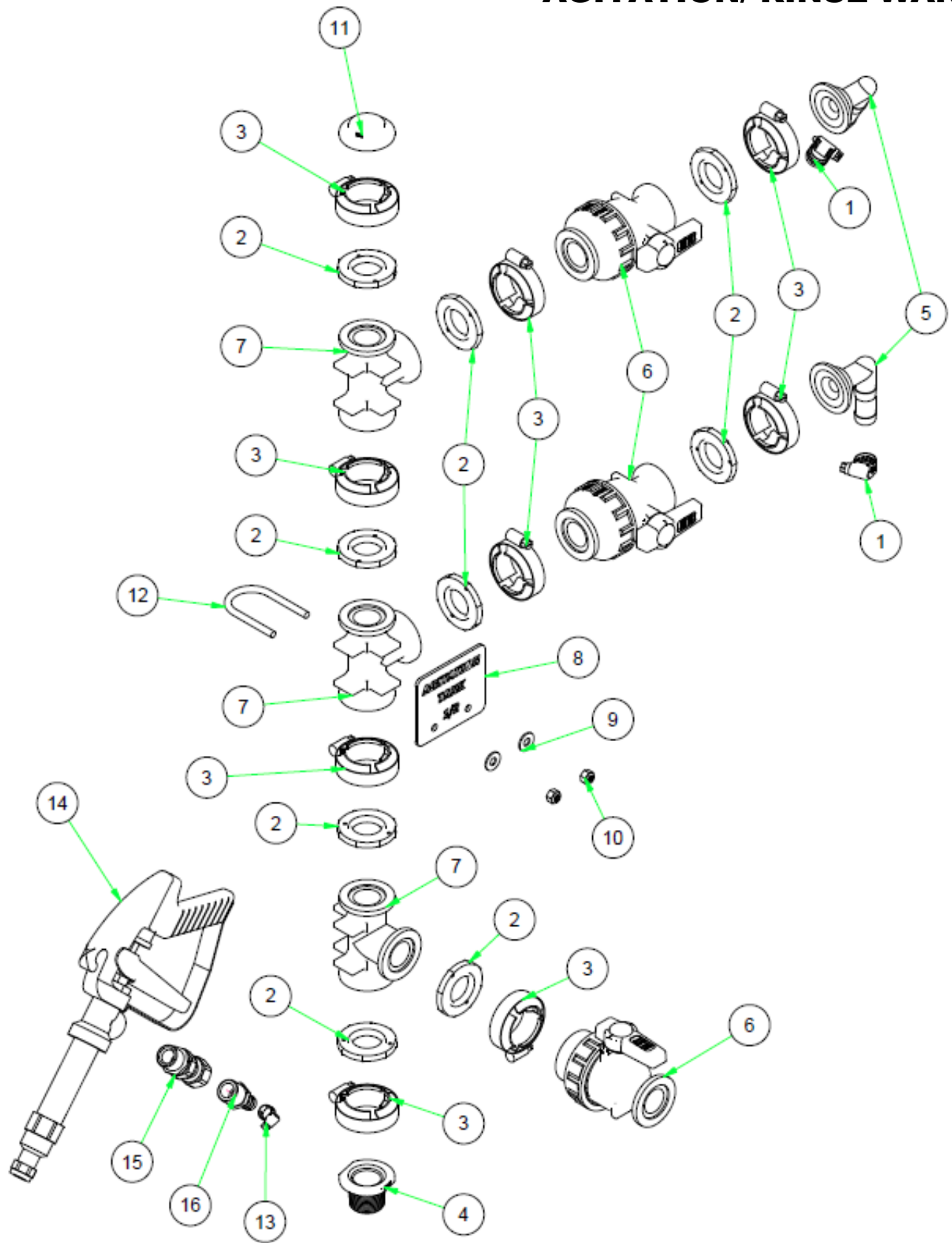
MANIFOLD PLUMBING



MANIFOLD PLUMBING

ITEM	PART NUMBER	DESCRIPTION
1	8A1734	2" SHORTY BALL VALVE
2	8A2297	FLANGE TEE M220 FULL PORT
3	8A2385	FLANGE GASKET 2" HYPRO
4	8A2234	FLANGE CLAMP FC220 WORMSCRW 56
5	8A2338	2" X 6" FULL PORT COUPLING
6	8A1009	CLAMP HOSE 1" #16
7	8A2233	FLANGE CLAMP FC200 WORMSCRW 52
8	8A2264	M220 TO M200 90 SWEEP
9	8A2239	2" MANIFOLD GASKET W/ SKIRT
10	8A2253	FLANGE ELBOW 90 M200 X 1" HB
11	8A2347	FLANGE 2" FP TO 1" REDUCER
12	8A2381	FLANGE GASKET 1" HYPRO
13	8A2232	FLANGE CLAMP FC100 WORM SCREW
14	8A2358	FLANGE 1"X1" X2.25"
15	8A2357	1" Manifold Sweeping 90 Elbow
16	8A2268	FLANGE 1"X1" MPT SS

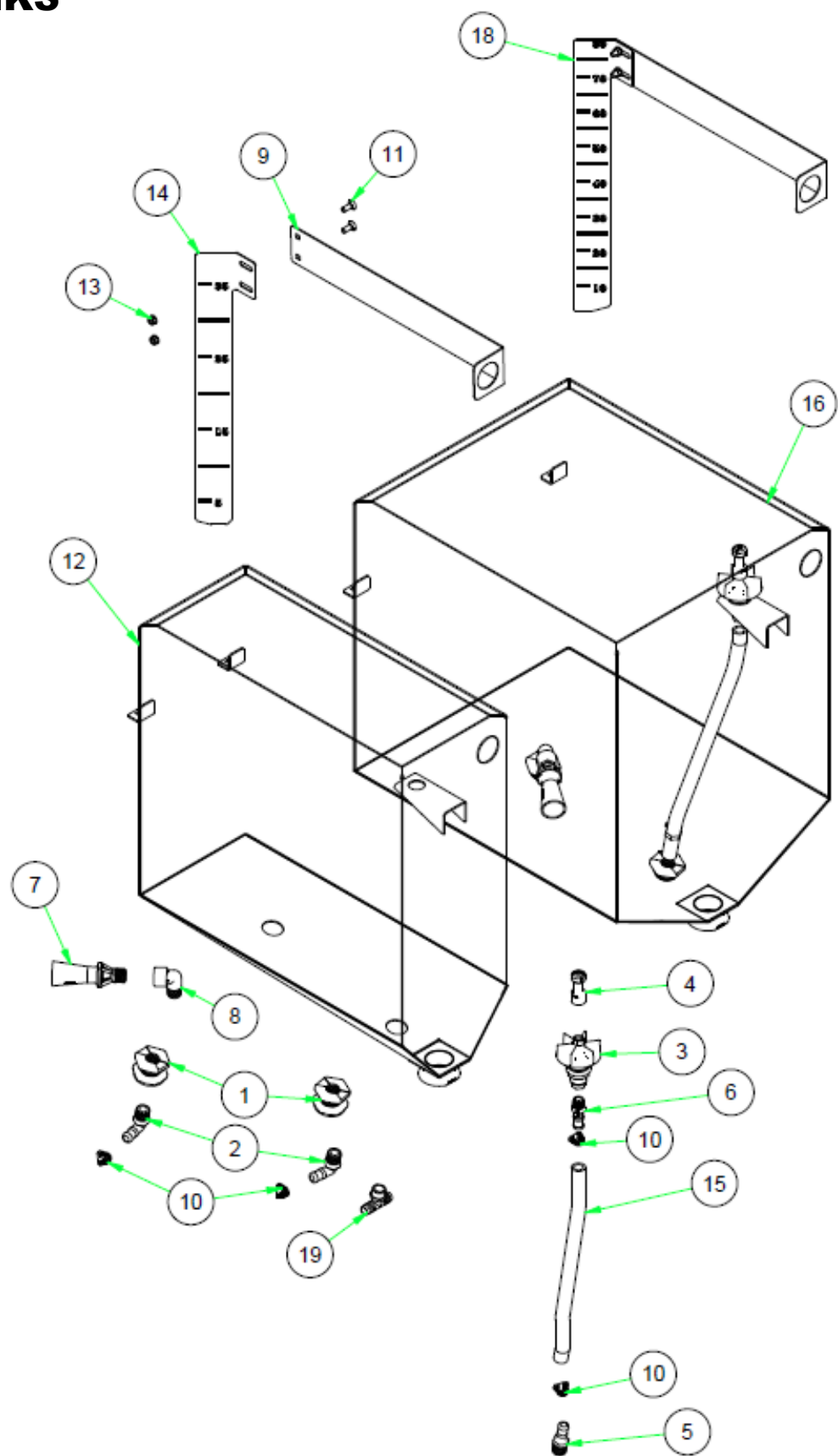
AGITATION/ RINSE WAND



AGITATION/ RINSE WAND

ITEM	PART NUMBER	DESCRIPTION
1	8A1007	CLAMP HOSE 3/4" #12
2	8A2381	FLANGE GASKET 1" HYPRO
3	8A2232	FLANGE CLAMP FC100 WORM SCREW
4	8A2268	FLANGE 1" X 1" MPT SS
5	8A2250	FLANGE ELBOW 90 M100 X 3/4"HB
6	8A2349	1" MANIFOLD FP VALVE
7	8A2294	FLANGE TEE M100
8	8F6107	DRONE FILL AGITATOR LABEL
9	8X0332	WASHER 1/4"(5/16" ID) FLAT YZ
10	8X0222	NUT 1/4"-20NC NY-LOCK GR2 YZ
11	8A2281	FLANGE 1" PLUG
12	8S0279	U-BOLT 1/4 X 1-1/2 RND
13	8A1003	CLAMP HOSE 1/2" MINI
14	8F8714	SWIVEL CONNECTOR 1/2" MXF-NPT
15	8F8792	SWIVEL CONNECTOR 1/2" MXF-NPT
16	8F3922	BARB HOSE 1/2"X1/2" MPT BRASS

TANKS



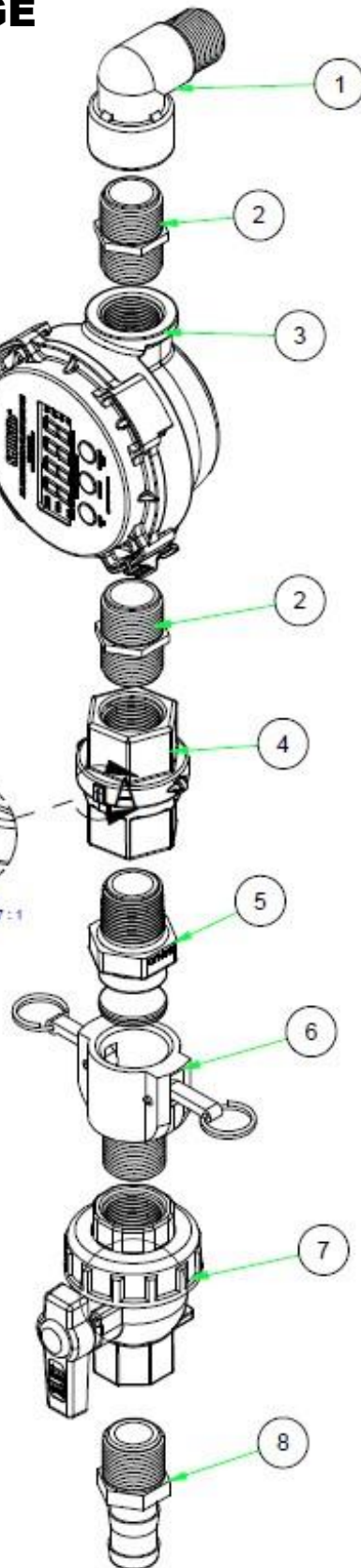
TANKS

ITEM	PART NUMBER	DESCRIPTION
1	8A1400	BANJO 3/4" FITTING COMPLETE
2	8A2015	ELBOW 3/4" HB X 3/4 MPT
3	8A2508A	BOTTLE RINSE PLUNGER
4	8A2508B	BOTTLE RINSE NOZZLE
5	8A2007	BARB HOSE 3/4" X 3/4 MPT
6	8A2021	BARB HOSE 3/4" X 1/2 MPT
7	8A1273	JET AGITATOR 3/4"MPT
8	8A2008	STREET ELBOW 3/4"
9	8F6120	GAUGE BRKT SFX
10	8A1007	CLAMP HOSE 3/4" #12
11	8X1112	CRG 3/8-16NC X 1" SS
12	8F6040	CHEMTANK SS 40GAL
13	8X0200	NUT 3/8"-16NC SERFLANG SS
14	8F6124	TANK GAUGE SFX-40GAL
15	8A4010	HOSE 3/4" EPDM AG 200PSI BLACK (JUG/TANK RINSE)
16	8F6080	CHEMTANK SS 80GAL
18	8F6128	TANK GAUGE SFX-80GAL
19	8A2005G	TEE 3/4"MPT X 3/4"HB X 3/4"HB
20*	8A4008	HOSE 1/2" EPDM AG 200PSI BLACK (RINSE WAND)
21*	8A4020	HOSE 1" EPDM AG 200PSI BLACK (MANIFOLD RINSE)
*ITEM NOT PICTURED ON DIAGRAM		

FLOWMETER PACKAGE

METER CAN BE ROTATED
4 DIFFERENT DIRECTIONS

NOTE DIRECTION OF ARROW



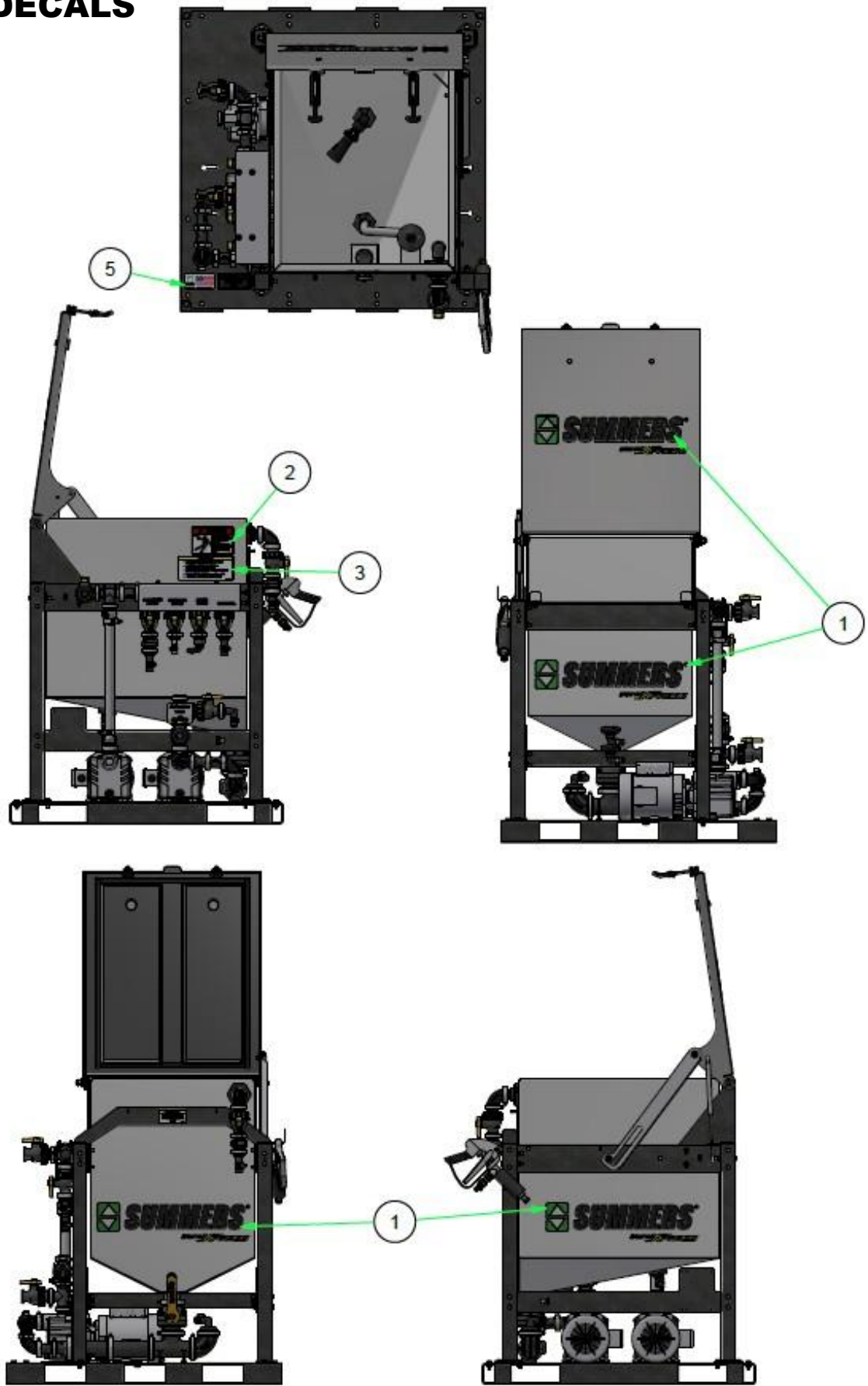
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8F6250.iam/FAST FILL METER
ASSEMBLY

FLOWMETER PACKAGE

ITEM	PART NUMBER	DESCRIPTION
1	8A2032	STREET ELBOW 1"
2	8A2001	NIPPLE 1"
3	8A1840	SHURFLO FLOWMETER FM-1101I
4	8A2143	1" FEMALE NPT CHECK
5	8A2092	MALE ADAPTER 1" MPT
6	8A2087	COUPLER 1" CAMLOCK X 1"MPT
7	8A1252	BALL VALVE 1" UNION
8	8A2025	BARB HOSE 1" X 1" MPT

SFX810 DECALS



DECALS



1



2



3



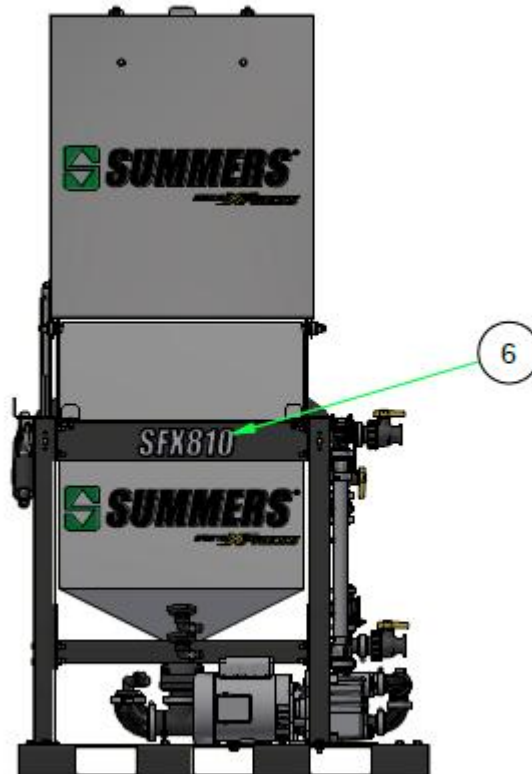
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4

DECALS

ITEM	PART NUMBER	DESCRIPTION
1	8Z2514	DECAL SFX-SUMMERS 23"
2	8Z0581	SFX ELECTROCUTION DANGER DECAL
3	8Z0580	DECAL SFX GENERAL CAUTION
4	8Z0570	DECAL CAUTION TRANSPORT
5	8Z0100	DECAL MADE IN USA
6	8Z2517	DECAL SFX810



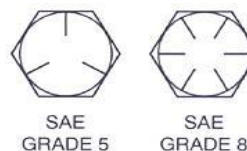
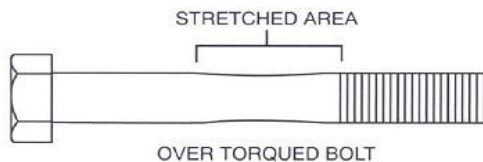
SPECIFICATIONS					
MODEL	PART NUMBER	WIDTH	HEIGHT	LENGTH	WEIGHT
SFX810	8F0180	40"	45"	40"	670LBS
SFX810	8F0240	40"	45"	40"	770LBS

PROPER BOLT USE

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

BOLT SIZE	WRENCH SIZE	GRADE 5		GRADE 8	
		ft-lbs	N-m	ft-lbs	N-m
1/4"	7/16" or 3/8"	7	9.5	12	17
5/16"	1/2"	15	20	25	34
3/8"	9/16"	30	41	45	61
7/16"	5/8" or 11/16"	45	61	70	95
1/2"	3/4"	70	95	105	142
9/16" Wheel Bolts	7/8"	170	231		
5/8"	15/16"	170	231	210	285
5/8" Wheel Nuts	1-1/16"	240	325		
3/4"	1-1/16"* or 1-1/8"	250	339	375	509
3/4" Wheel Nuts	1-1/8"	275	373		
7/8"	1-5/16"	350	475	600	814
1"	1-1/2"	450	610	880	1193
1-1/4"	1-7/8"	500	678		
1-1/2"	2-1/4"	570	773		
2"	3-1/8"	1200	1627		
METRIC					
M5	3 mm socket or 8 mm	22 in-lb	2.5 N-m		
M6	4 mm socket	70 in-lb	8 N-m		

*Nylon Lock Nut



NOTES