



SUMMERS[®]

Spray Fill Xpress Operator's Manual SFX1630 & SFX2430



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.

SUMMERS MANUFACTURING CO., INC.

DEVILS LAKE, NORTH DAKOTA 58301

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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 SFX1630 or SFX2430. 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.

103 Summers St. NW
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



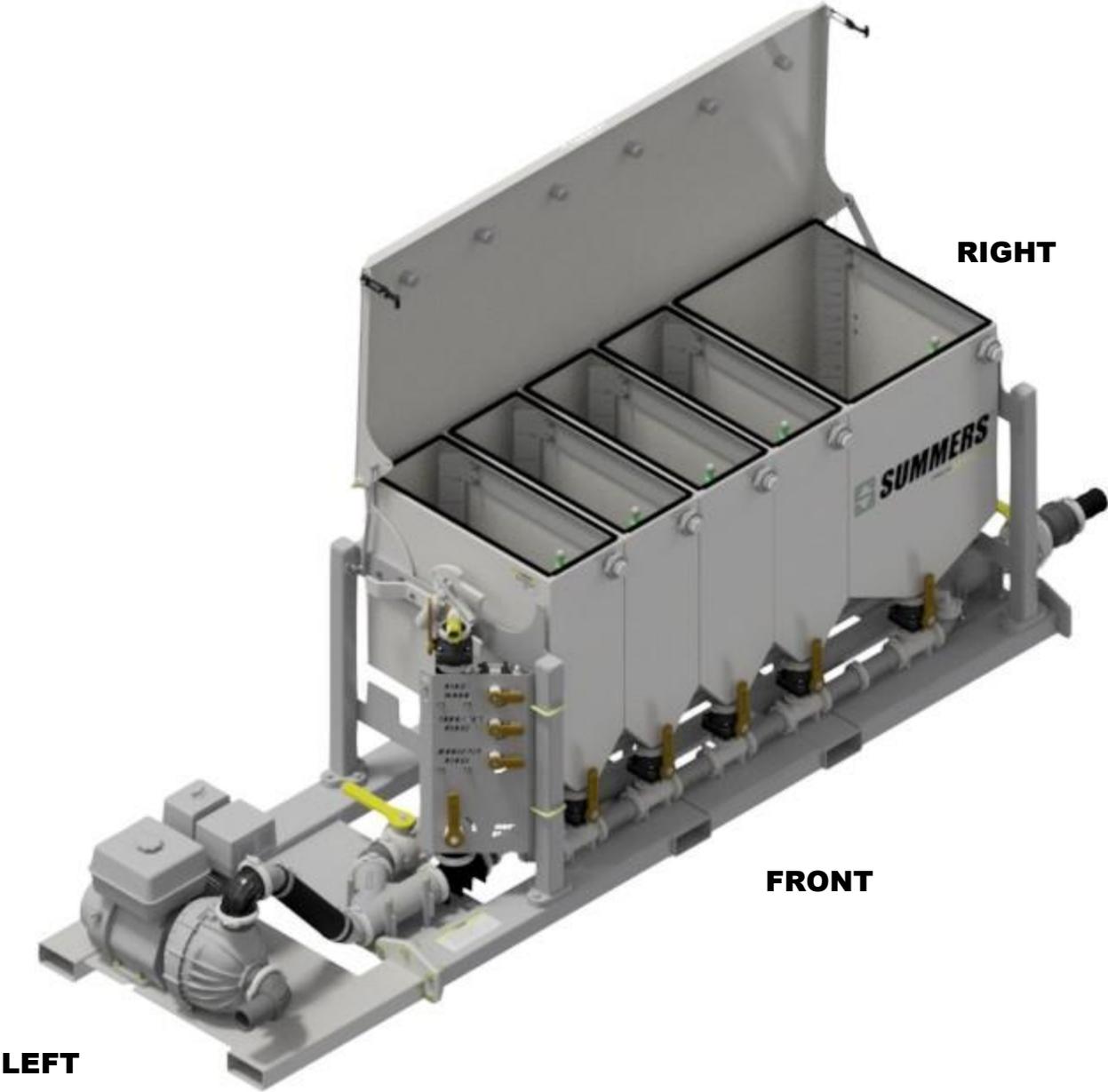
Owner Registration Information

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

| <u>OWNER REGISTRATON</u> | |
|---------------------------------|---------------------|
| 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.

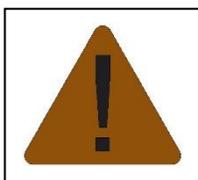


Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



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

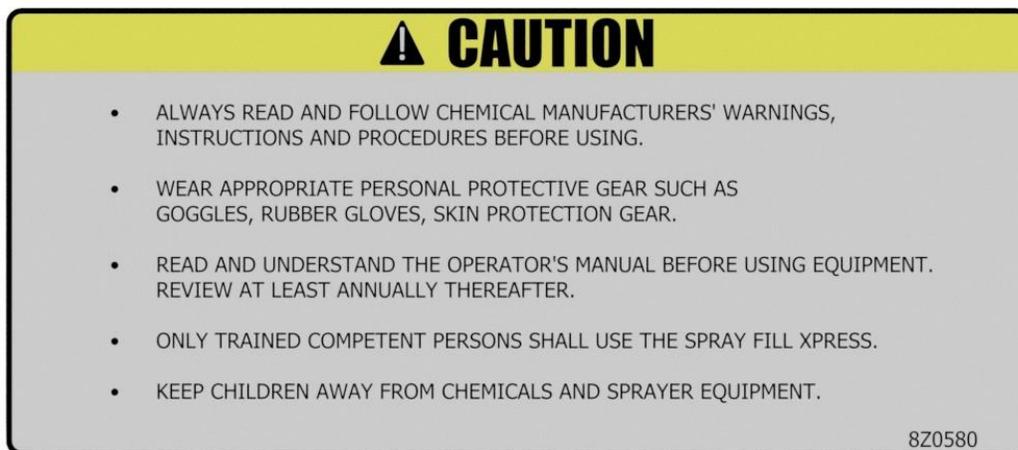
VERIFY mounting to trailer is secure before transporting.

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

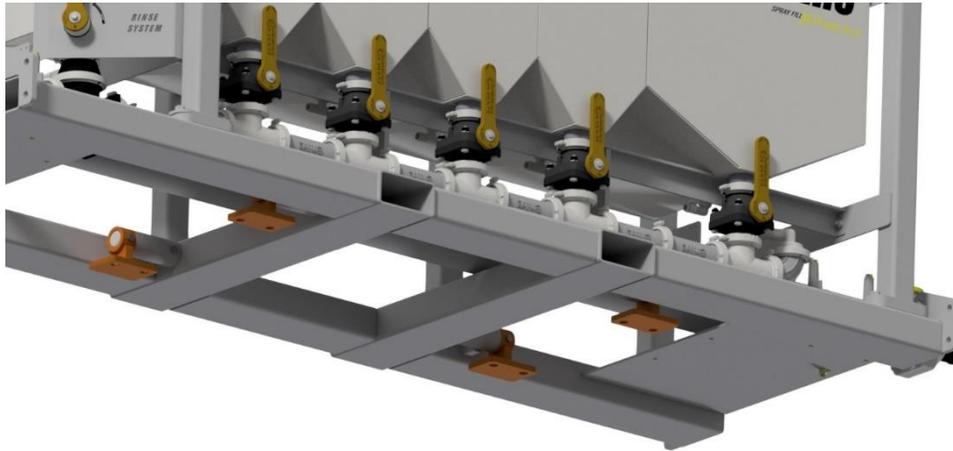


SAFETY DECAL LOCATIONS

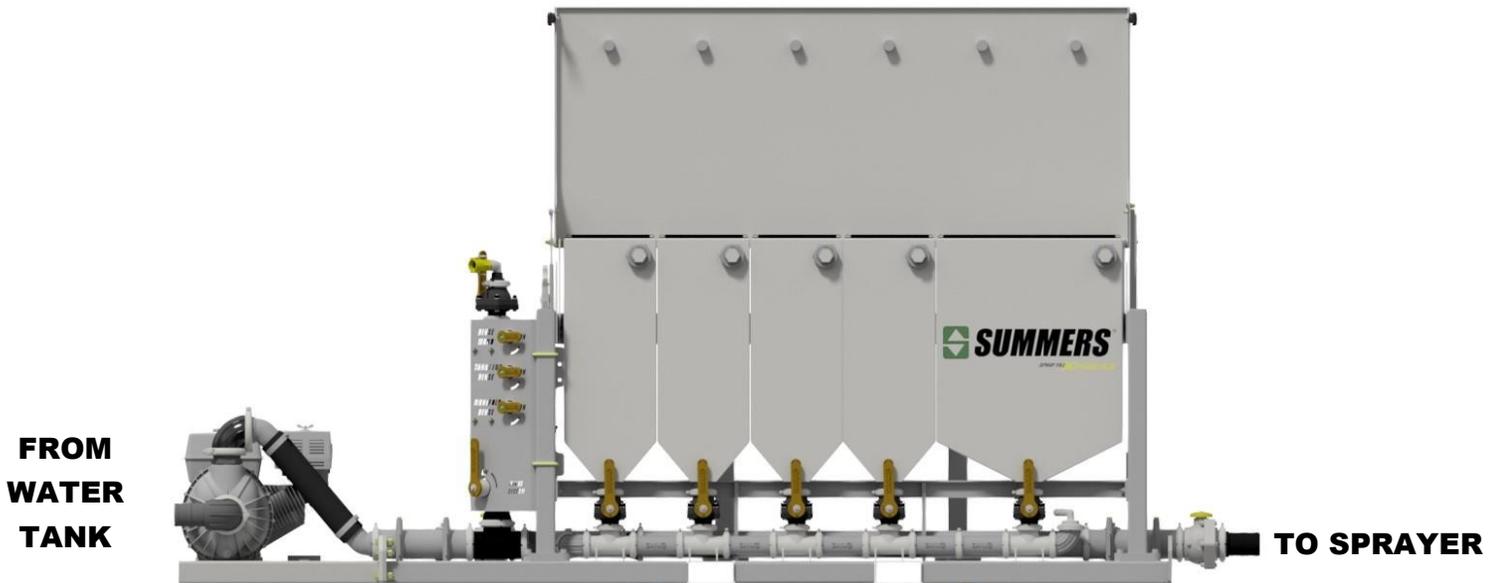


ASSEMBLY AND INSTALLATION

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 feet on the base of the Spray Fill Xpress to trailer bed. (1/2" diameter bolts Grade 5, NO LAG BOLTS)



When choosing the layout of the Spray Fill Xpress, choose a location close to the water supply tanks 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 right side is the output of the Spray Fill Xpress and will go to the sprayer.

ASSEMBLY AND INSTALLATION

The Spray Fill Xpress will come shipped without the transfer pump and other accessories attached to the exterior of the unit. The parts and accessories will come inside one of the tanks.

WARNING

Check fuel and oil level before starting the water pump engine. Transfer pump cannot be operated without water. Seal damage will occur.

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

Connecting Engine Harnesses

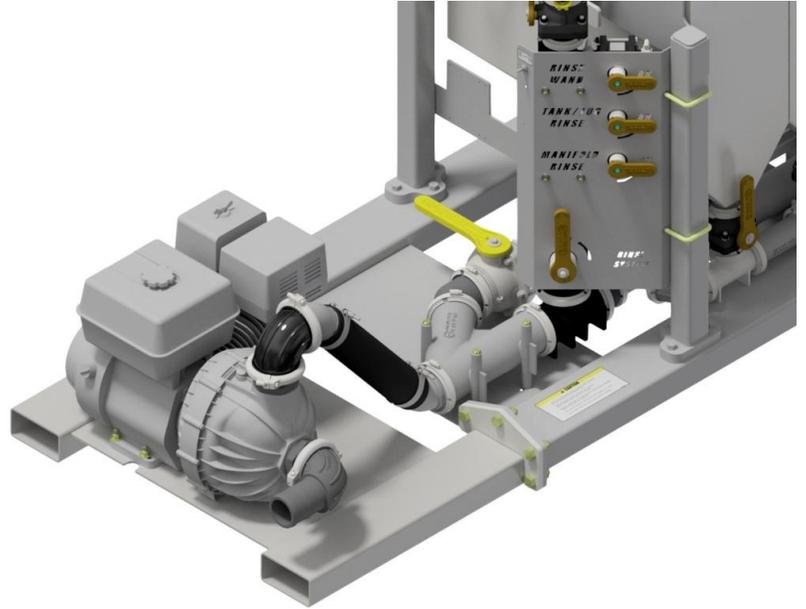
Depending on the transfer pump package the remote fob transmitter or toggle switch harnesses will need to be attached to the engine. The attachment location is behind the Key Switch Panel and will have colored wires with male and female bullet connectors.

To attach the remote transmitter please refer to the instructions for the Lodar Remote Control.

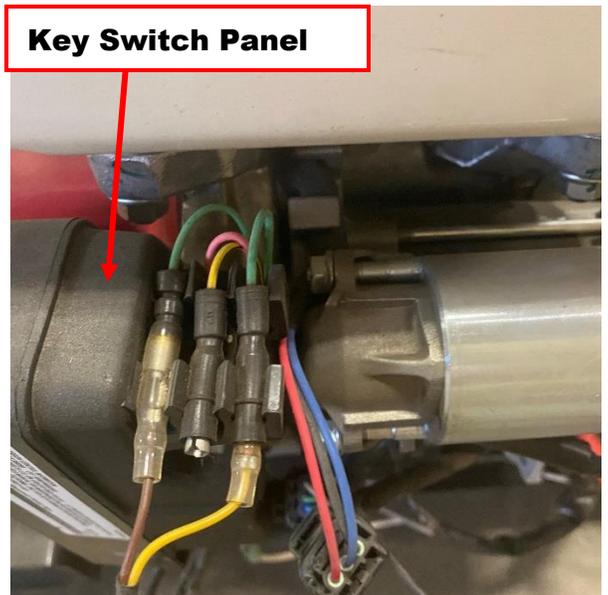
The toggle switch harness will have a dark green, light green, and yellow wire to connect. They will have the corresponding bullet connectors to attach to the engine harness.

Attaching Transfer Pump Option

To attach the transfer pump option, align the transfer pump skid up to the left side of the Spray Fill Xpress. Attach with the supplied 5/8" hardware. Torque to 170 ft-lbs. Attach pump outlet hose to the spray fill. The flange gasket and flange clamp are supplied with the transfer pump package.



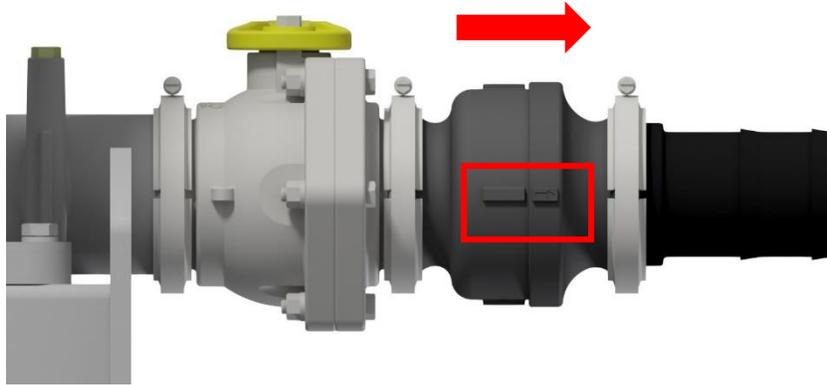
Key Switch Panel



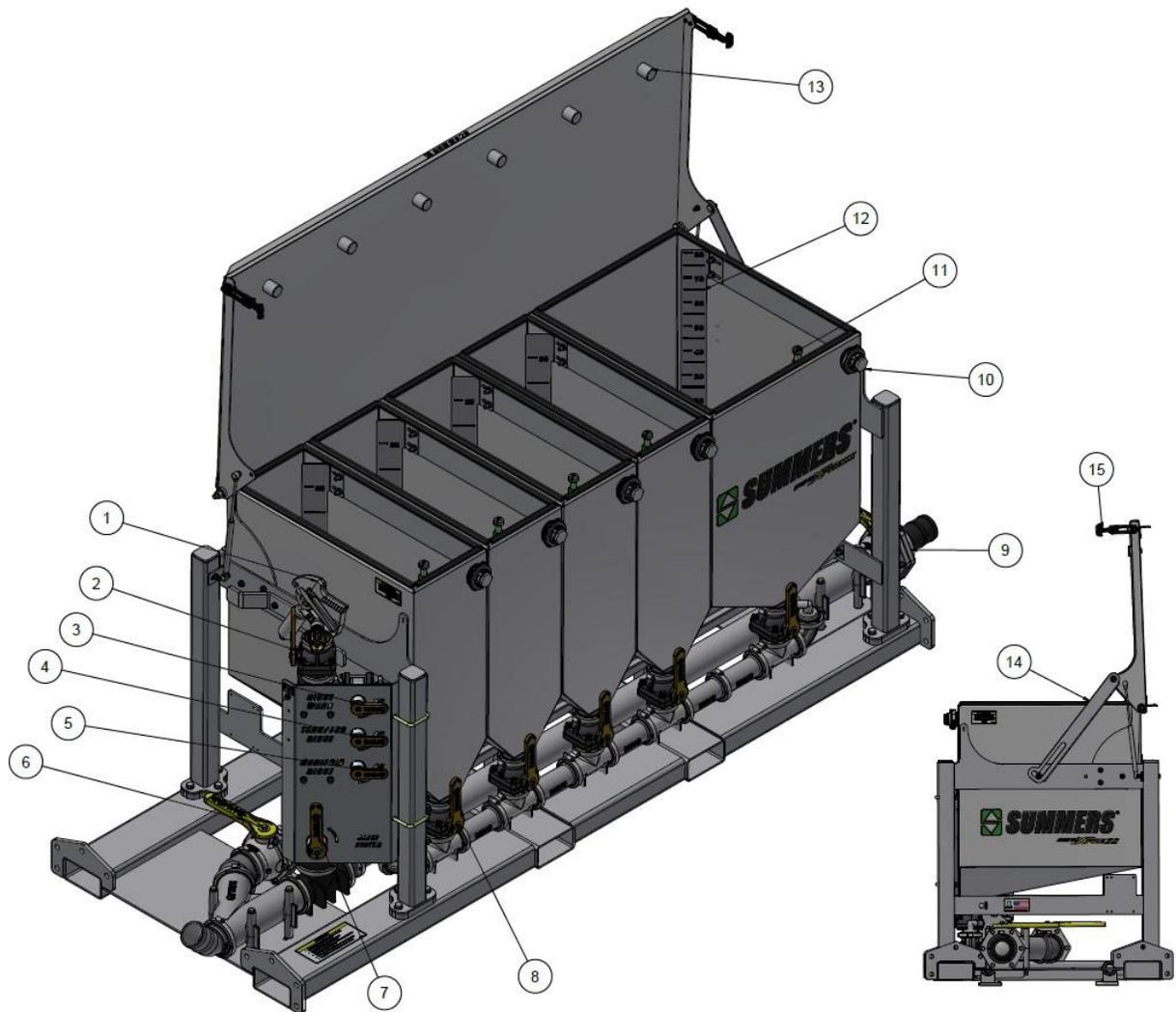
ASSEMBLY AND INSTALLATION

Install the Spray Fill Xpress outlet Ball Valve and Check Valve with supplied gaskets and flange clamps. Ensure the direction of the Check Valve is correct. The arrow on the body of the Check Valve should point in the direction of water flow.

The Check Valve ensures there is no back flow of mixed chemical or product that would enter the Spray Fill Xpress.



OPERATION



1. Rinse Wand
2. Accessory Clean Water Port
3. ON/OFF Valve for Rinse Wand
4. ON/OFF Valve for Tank / Jug Rinse
5. ON/OFF Valve for Manifold Rinse
6. Main Bypass Valve
7. Master ON/OFF for Rinse System
8. Tank Valve
9. Output Valve
10. Bulkhead for Bulk Chemical Plumbing
11. Jug/Tank Rinse
12. Tank Level Indicator
13. Tank Rinse Plunger
14. Lid Safety Lock
15. Lid Rubber Latch

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

Check fuel and oil level before starting the water pump engine. Transfer pump cannot be operated without water. Seal damage will occur.

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

OPERATION

Description

Spray Fill Xpress chemical fill system is designed with an inline eductor 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 venturi eductor where liquid or dry chemicals are mixed while they 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

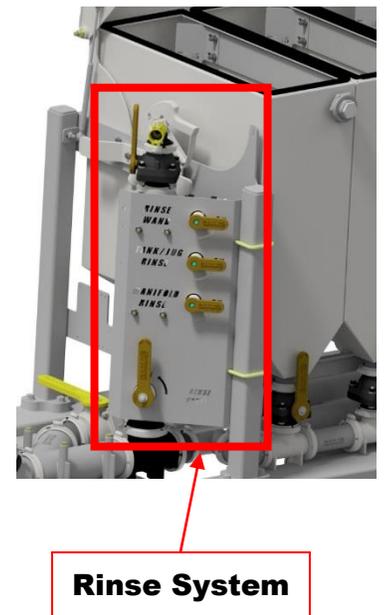
After the Spray Fill Xpress has been installed, a complete system check should be done to verify the plumbing is connected properly and leak free. It is recommended to do the system check again at the beginning of each spray season. Before adding chemical to the system, use only water and run the system 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 engine 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. Turn on scale if equipped. Verify scale is zeroed prior to filling tank with product to be measured.
6. Measure required amount of chemical into each tank using scale, 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. Engine and pump need to be operating, Master ON/OFF Valve for Rinse system in ON position as well as the Jug Rinse Valve in ON position.
8. Each container should be rinsed 30 seconds or longer to ensure the container is clean.



OPERATION

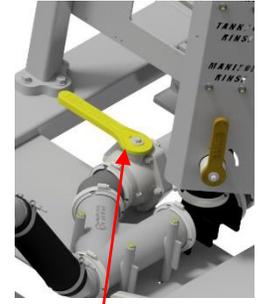
Filling Sprayer

1. The Spray Fill Xpress tanks contain the desired chemicals as measured in previous steps.
2. Turn ON inlet water source. Start pump engine and divert pump flow to venturi by turning Main Bypass Valve perpendicular to plumbing.



Output Valve

3. Open Spray Fill Xpress Outlet Valve and Open Sprayer Bottom Fill Valve.



Main Bypass Valve

4. Open each Tank Valve until each tank is empty. Rinse Wand may be used to incorporate dry products. Rinse each tank by using the Rinse Wand or close the lid and use the Tank/Jug Rinse. To Rinse with the Rinse Wand, turn ON Master Rinse System Valve, Turn Rinse Wand Valve to ON. To use Tank/Jug Rinse, Turn ON Master Rinse System Valve, 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.



Tank Valve

5. After tanks have been rinsed close all Tank Valves and perform a Manifold Rinse. Turn Master Rinse System Valve to ON, Turn Manifold Rinse Valve to ON. Operate for at least 30 seconds and turn Manifold Rinse Valve to OFF.
6. Open the Main Bypass Valve by turning Valve handle to inline of plumbing. Fill Sprayer to desired level.



Rinse System

Shutdown

1. Turn OFF Sprayer Bottom Fill Valve.
2. Turn OFF Spray Fill Xpress Outlet Valve.
3. Turn OFF engine.
4. Turn OFF inlet water source.
5. Disconnect Sprayer Bottom Fill Valve.

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.

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 engine oil, and fuel levels.

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 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.

OPERATION

There are two water pump packages that can be purchased in addition to the Spray Fill Xpress. Both packages utilize a Honda iGX390. The iGX390 has electric and recoil starting. The iGX390 has an electronic governor system to keep the engine speed stable under changing loads. The engine has a 10 or 18 AMP charging system.

8F8022 Transfer Pump Radio Package

The Transfer Pump Radio Package utilizes a remote control to Start, Turn OFF, Change RPM. Low RPM is 2800 RPM and High RPM is 3600 RPM.



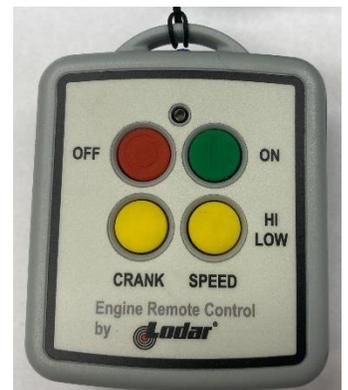
1. Units are not shipped with fuel or oil. Add oil and fuel before starting. Refer to Honda Manual for details.
2. The Lodar power cables **MUST** be connected to the same battery as the Honda Engine Starter.
3. The Lodar is fused with a 5A fuse and **MUST** be replaced with a 5A fuse.
4. The engine ignition key **MUST** be placed to the OFF POSITION OR REMOVED before operating the Lodar.
5. The Transmitter and Receiver will both switch off after 30 minutes of inactivity.
6. Please refer to the User manuals for the Honda Engine, Water Transfer Pump, and Lodar Remote Start for more information.

Quick Start Guide for Remote Starting

1. Engine ignition key must be placed in the OFF POSITION OR REMOVED to remote start engine.
2. Turn ON Lodar Transmitter.
3. Press the ON button on the Receiver
4. Press the Crank button on the Receiver to turnover engine.
5. Engine will start in the low RPM setting. To increase RPM, press the HI/LOW button to increase RPM.
6. The Engine RPM can also be changed by using the switch on the Transmitter DIR1/DIR2. NOTE: The remote will only change the RPM in DIR1.
7. To STOP the engine, press the Red STOP button on the Remote. The engine will also STOP by the ON/OFF switch on the Transmitter. NOTE: The engine will not STOP if the ignition key is not set to the OFF position. The engine cannot be restarted for a period of THREE seconds, this is a safety feature and cannot be disabled.



Transmitter



Remote

OPERATION

8F8024 Transfer Pump Package



1. Units are not shipped with fuel or oil. Add oil and fuel before starting. Refer to Honda Manual for details.
2. Please refer to the User manuals for the Honda Engine, and Water Transfer Pump for more information

The Transfer Pump package utilizes the iGX390 engine from Honda. The controls on the engine are used to start and stop the engine. There is a toggle switch located on the Rinse System Panel. The toggle switch allows the user to select 3 options for Engine RPM. To the left is 2800 RPM. The middle is AUTO. This allows the engine to choose the RPM for the engine load. To the right is 3600 RPM.

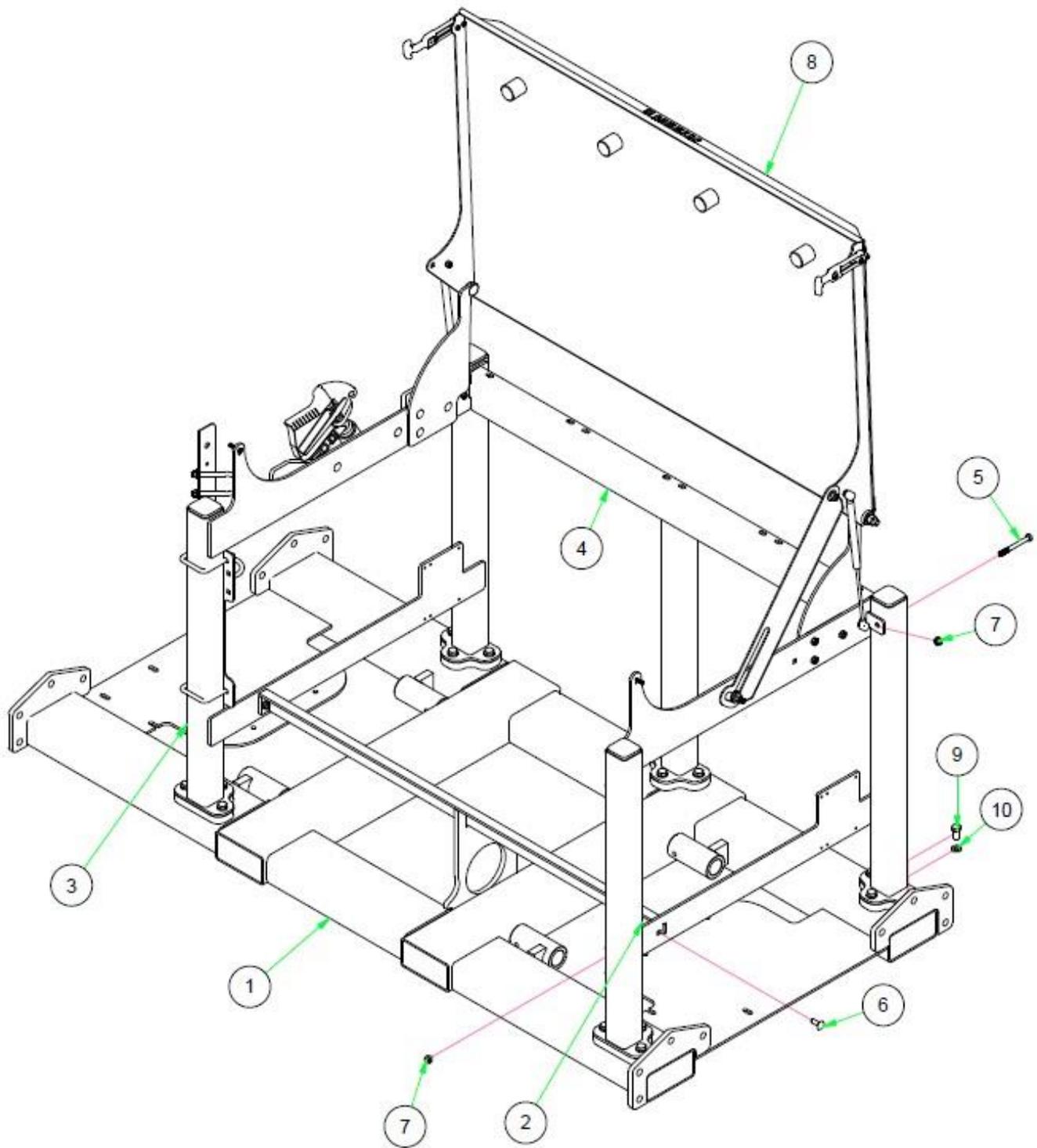


8F6210 Scale and Mounting Package

Refer to the EZ400 scale operator's manual for detailed operation.

Before charging or jumpstarting the battery connected to the scale system. Disconnect the power to the EZ400. Damage may occur if power surges and will not be covered under warranty.

SFX1630 BASE



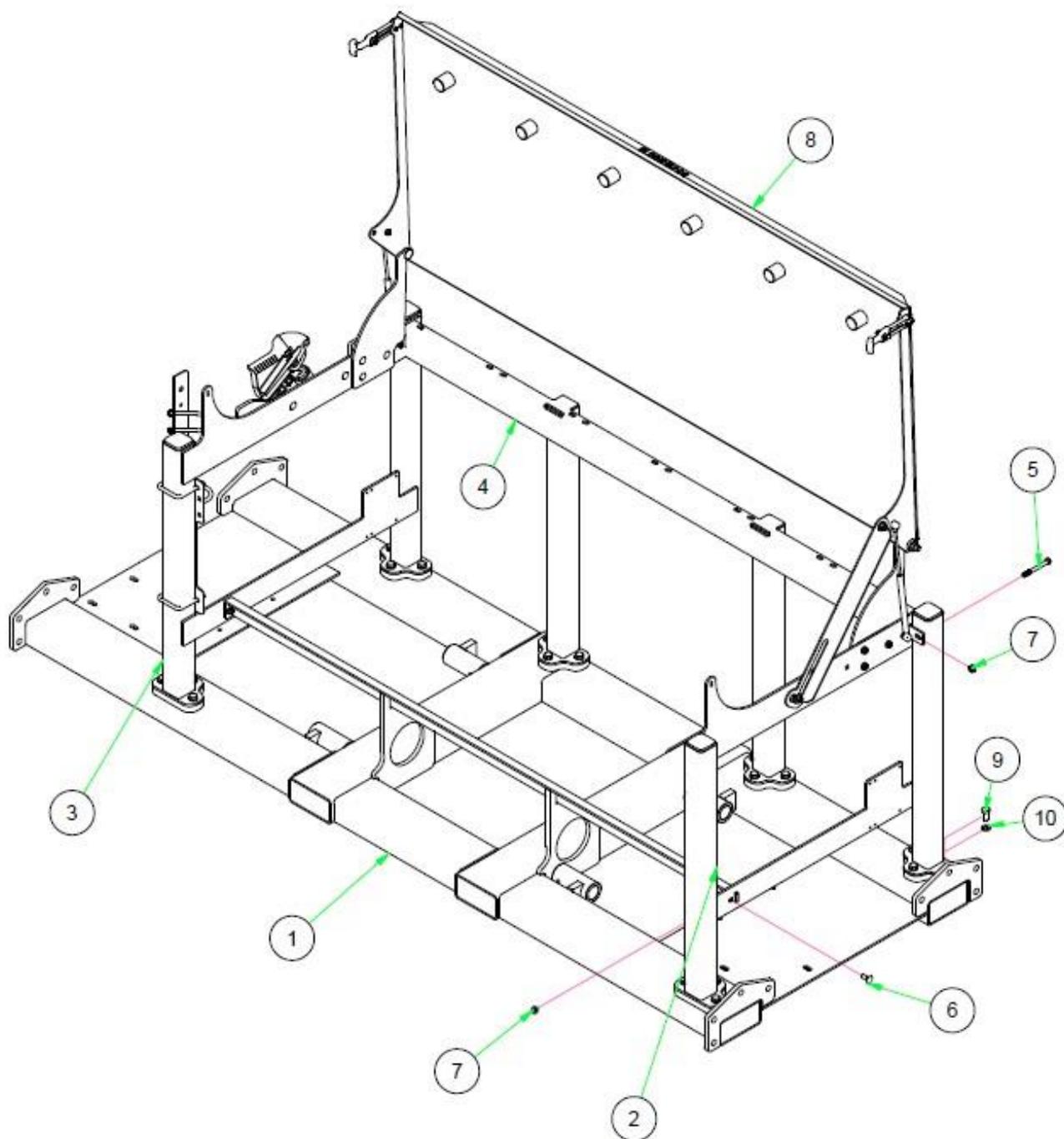
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SFX1630 BASE

| ITEM | PART NUMBER | DESCRIPTION |
|------|-------------|----------------------------------|
| 1 | 8F8010 | FAST FILL BASE 160 BLTN PTD 15 |
| 2 | 8F8004 | FAST FILL SIDE RAILING RGT 15- |
| 3 | 8F8006 | FAST FILL SIDE RAILING LFT 15- |
| 4 | 8F8012 | BACK SUPPORT 160 SF PTD 15- |
| 5 | 8X0016B | BOLT 3/8-16NC X 3.5" GR5 SS |
| 6 | 8X1112 | CRG 3/8-16NC X 1" SS |
| 7 | 8X0200 | NUT 3/8"-16NC SERFLANG GR2 YZ |
| 8 | 8F6004 | LID 160 GALLON SPRAY FILL XPRESS |
| 9 | 8X0059 | ½ -13NC X1" GR5 YZ |
| 10 | 8X0303 | LOCKWASHER ½" YZ |

SFX2430 BASE

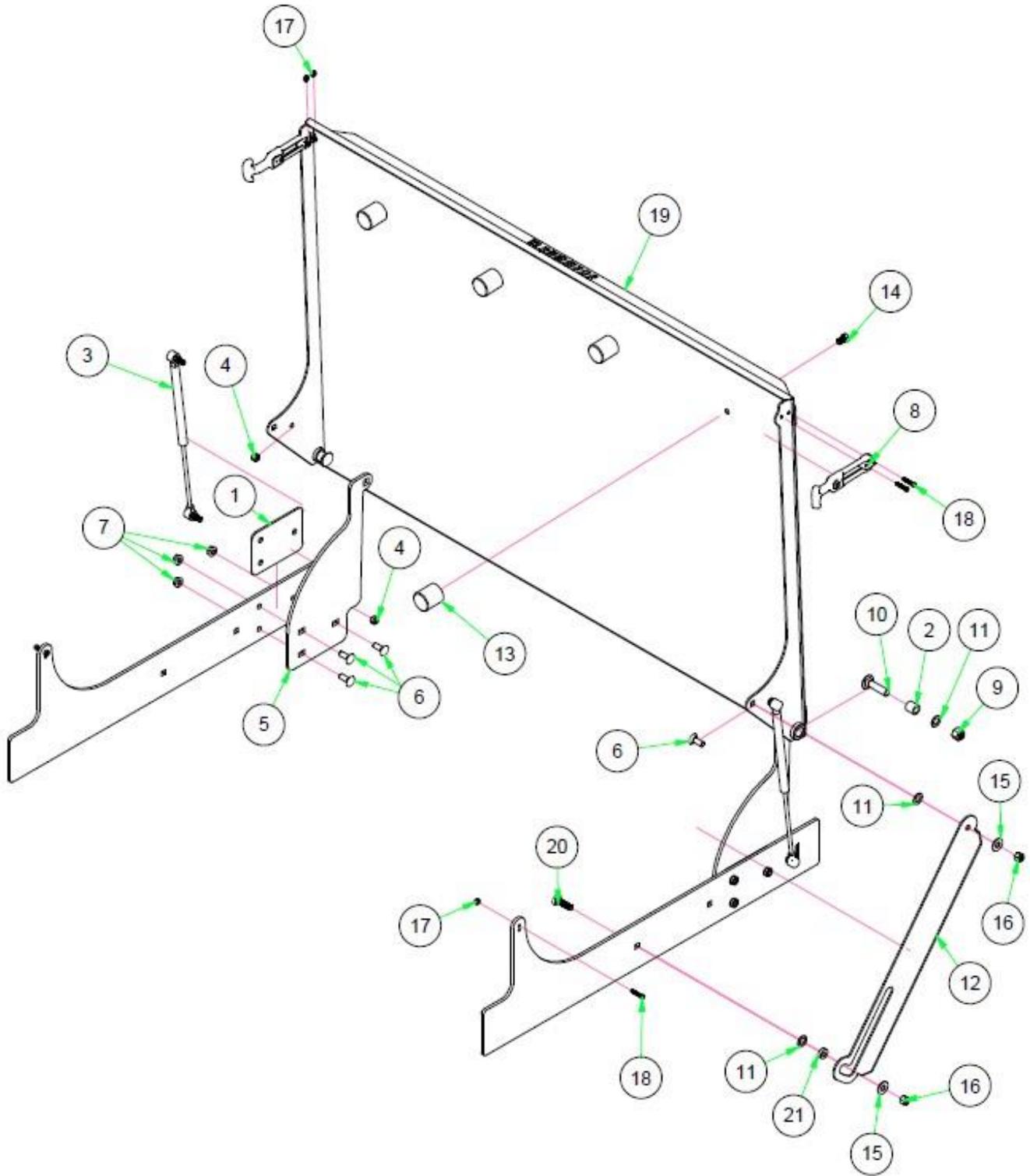


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SFX2430 BASE

| ITEM | PART NUMBER | DESCRIPTION |
|------|-------------|----------------------------------|
| 1 | 8F8008A | FAST FILL BASE BLTON PTD 15 - |
| 2 | 8F8004 | FAST FILL SIDE RAILING RGT 15- |
| 3 | 8F8006 | FAST FILL SIDE RAILING LFT 15- |
| 4 | 8F8002 | BACK SUPPORT 240 SF PTD 15- |
| 5 | 8X0016B | BOLT 3/8-16NC X 3.5" GR5 SS |
| 6 | 8X1112 | CRG 3/8-16NC X 1" SS |
| 7 | 8X0200 | NUT 3/8"-16NC SERFLANG GR2 YZ |
| 8 | 8F6006 | LID 240 GALLON SPRAY FILL XPRESS |
| 9 | 8X0059 | ½ -13NC X1" GR5 YZ |
| 10 | 8X0303 | LOCKWASHER ½" YZ |

LID ASSEMBLY SFX1630/SFX2430



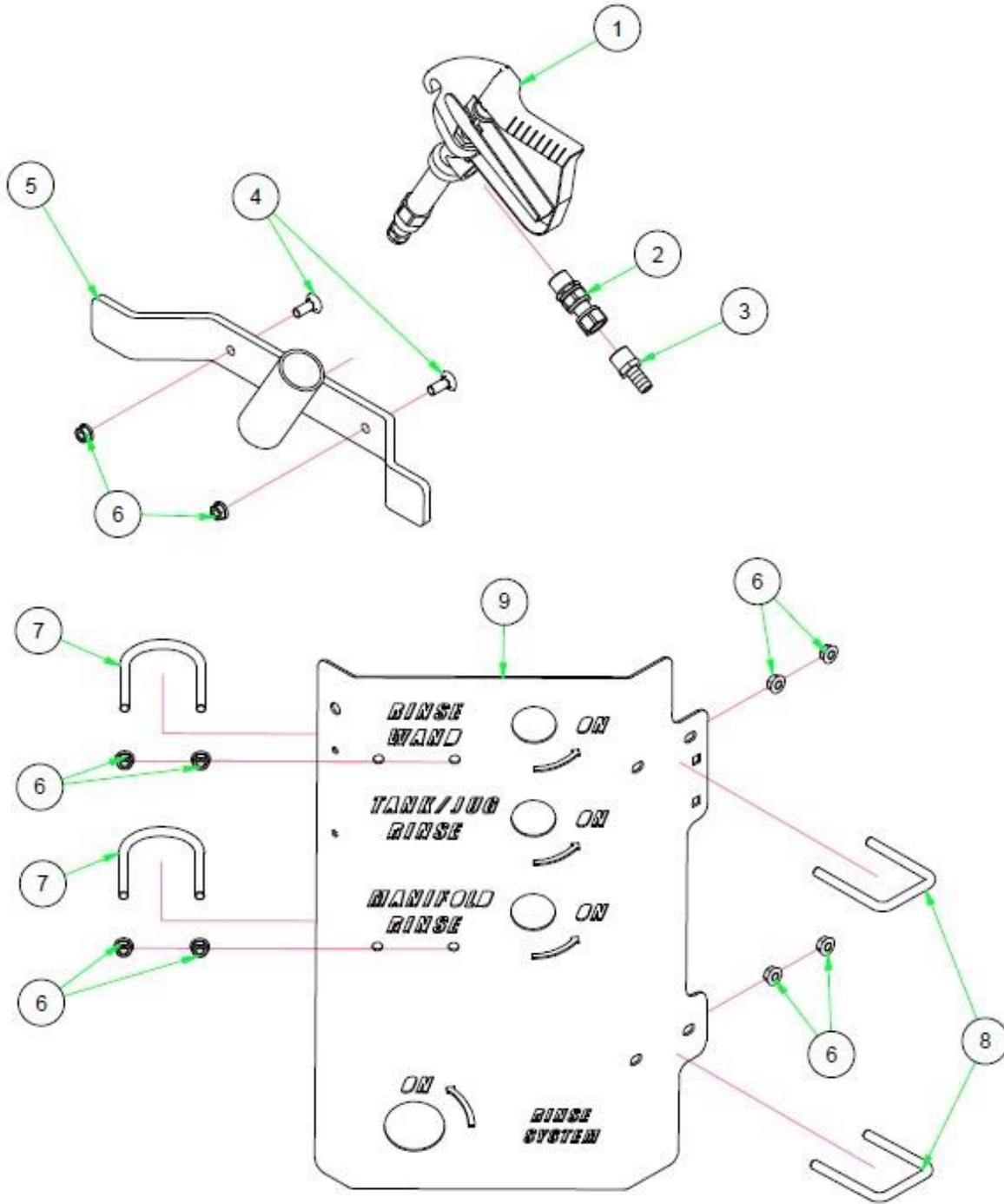
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LID ASSEMBLY SFX1630/SFX2430

| ITEM | PART NUMBER | DESCRIPTION |
|------|-------------|----------------------------------|
| 1 | 8F0102 | HINGE PLATE |
| 2 | 8F0400 | UHMW HINGE BUSHING |
| 3A | 8F0416 | GAS SPRING FOR SFX1630 LID |
| 3B | 8F0414 | GAS SPRING FOR SFX2430 LID |
| 4 | 8X0212 | NUT 5/16"-18NC NY-LOCK GR2 ZDI |
| 5 | 8F0100 | HINGE SUPPORT |
| 6 | 8X1112 | CRG 3/8-16NC X 1" SS |
| 7 | 8X0200 | NUT 3/8"-16NC SERFLANG GR2 YZ |
| 8 | 8F0424 | RUBBER LATCH STRAP |
| 9 | 8X0242 | NUT 1/2"-13NC NY-LOCK GR2 YZ |
| 10 | 8X0065 | CRG 1/2-13NC X 2" GR5 ZDI |
| 11 | 8X0319 | WASHER 17/32"IDX7/8ODX16GA ZDI |
| 12 | 8F6105 | LOCKARM FAST FILL LID |
| 13 | 8F6100 | RINSEBALL DEPRESSER SS304 |
| 14 | 8X0018 | BOLT 3/8-16NC X 1/2" SS |
| 15 | 8X0320 | WASHER 3/8" (7/16" ID) FLAT ZDI |
| 16 | 8X0202 | NUT 3/8"-16NC NY-LOCK GR2 YZ |
| 17 | 8X0207 | NUT THIN 10 X 24 NYLOCK SS |
| 18 | 8X0161 | SCREW 10 X 24 - 1.25" SKT HD S |
| 19A | 8F6004 | LID 160 GALLON SPRAY FILL XPRESS |
| 19B | 8F6006 | LID 240 GALLON SPRAY FILL XPRESS |
| 20 | 8X1113 | CRG 3/8-16NC X 1.5" SS |
| 21 | 8F0004 | STAINLESS STEEL BOLT SPACER |

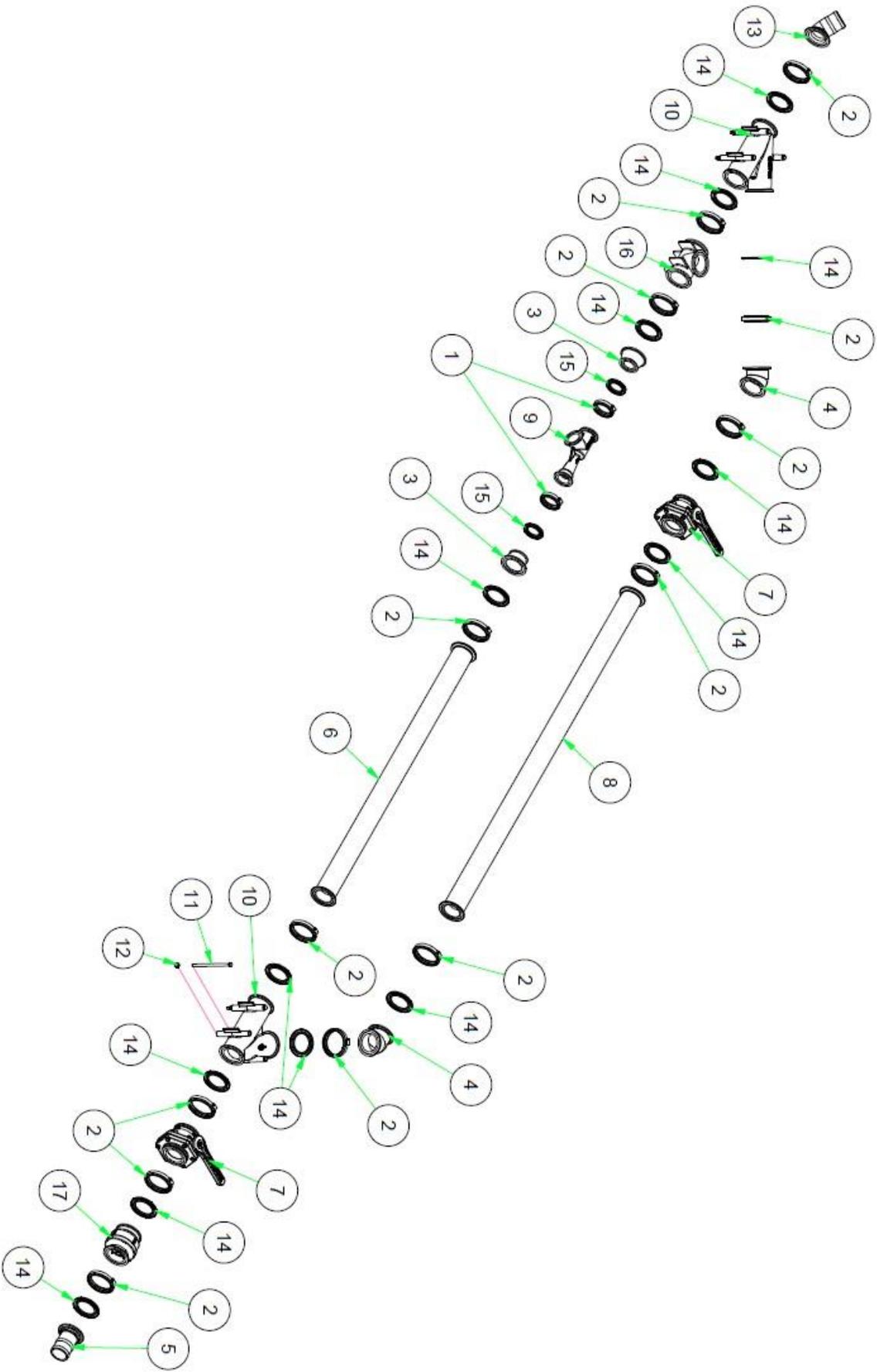
SFX1630/SFX2430 RINSE PANEL



SFX1630/SFX2430 RINSE PANEL

| ITEM | PART NUMBER | DESCRIPTION |
|-------------------------------|-------------|---|
| 1 | 8F8714 | WASH GUN GUNJET SHORT |
| 2 | 8F8792 | SWIVEL CONNECTOR 1/2" |
| 3 | 8F3922 | BARB HOSE 1/2" |
| 4 | 8X1112 | CRG 3/8-16NC X1" SS |
| 5 | 8L3376 | SPRAY LOADER RINSE GUN HOLDER |
| 6 | 8X0200 | NUT 3/8" -16 SERFKABG GR2 YZ |
| 7 | 8S0295 | U-BOLT 3/8" X2-5/8" X 4-1/4" RND |
| 8 | 8G8020 | U-BOLT 3/8" X 2-9/16" X 3-1/2" SQ |
| 9 | 8F6110 | VALVE PANEL FAST FILL |
| 10* | 8A1003 | CLAMP HOSE 1/2" |
| 11* | 8A4008 | HOSE 1/2" EPDM AG 200PSI BLACK (RINSE WAND) |
| *ITEM NOT PICTURED ON DIAGRAM | | |

BYPASS PLUMBING SFX1630/SFX2430



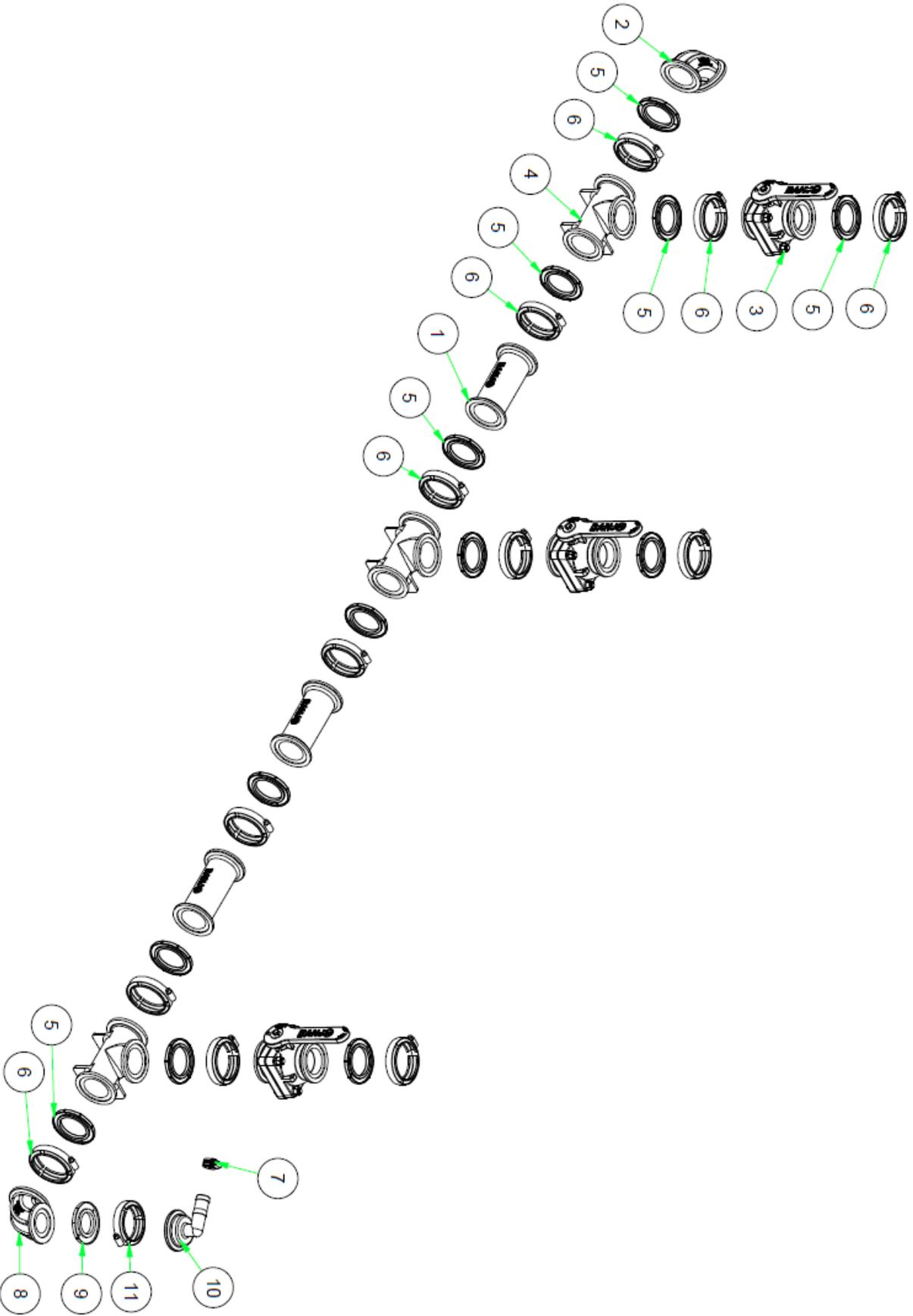
3/12/2024

8F8150_PLUMBING.iam/

BYPASS PLUMBING SFX1630/SFX2430

| ITEM | PART NUMBER | DESCRIPTION |
|------|-------------|--------------------------------|
| 1 | 8A2234 | FLANGE CLAMP FC220 WORM SCREW |
| 2 | 8A2235 | FLANGE CLAMP FC300 WORM SCREW |
| 3 | 8A2328 | FLANGE REDUCER M300 X M220 |
| 4 | 8A2317A | FLANGE ELBOW 45 M300 |
| 5 | 8A2293 | FLANGE M300 X 3" HB FULL PORT |
| 6 | 8F6156 | FLANGEPIPE 3X56" SS304 |
| 6 | 8F6134 | FLANGEPIPE 3X33.75" SS304 |
| 7 | 8A1742 | BALL VALVE 3" STUBBY FLANGE |
| 8 | 8F6172 | FLANGEPIPE 3X72.35" SS304 |
| 8 | 8F6150 | FLANGEPIPE 3X50.06" SS304 |
| 9 | 8A2345 | FLANGE 2" FP POLY INDUCTOR |
| 10 | 8A2342 | FLANGE 3" FP 45 DEGREE Y |
| 11 | 8X0046 | BOLT 7/16-14NC X 7-1/2"GR5 ZDI |
| 12 | 8X0234 | NUT 7/16"-14NC NY-LOCK GR2 ZDI |
| 13 | 8A2249 | FLANGE ELBOW 45 M300 X 3"HB |
| 14 | 8A2387 | FLANGE GASKET 3" |
| 15 | 8A2385 | FLANGE GASKET 2" |
| 16 | 8A2299 | FLANGE TEE M300 FULL PORT |
| 17 | 8A2348 | FLANGE 3" POLY CHECK VALVE |

TANK PLUMBING SFX1630/SFX2430



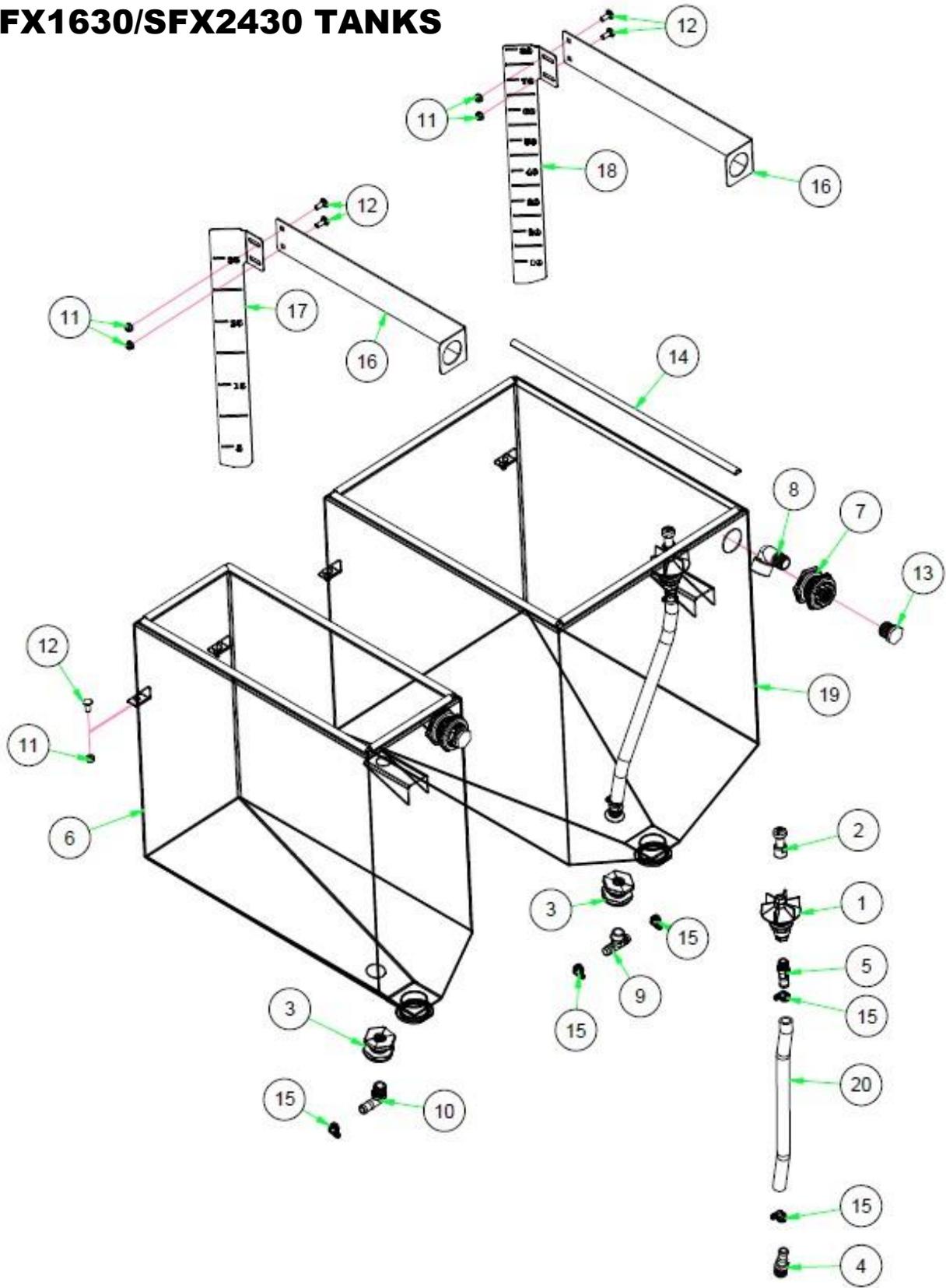
3/18/2024

8F8125TANKPLUMBING.iamv

TANK PLUMBING SFX1630/SFX2430

| ITEM | PART NUMBER | DESCRIPTION |
|------|-------------|-------------------------------|
| 1 | 8A2338 | 2" X 6" FULL PORT COUPLING |
| 2 | 8A2319 | 2" FULL PORT SWEEP ELBOW |
| 3 | 8A1734 | 2" SHORTY BALL VALVE |
| 4 | 8A2297 | FLANGE TEE M220 FULL PORT |
| 5 | 8A2385 | FLANGE GASKET 2" |
| 6 | 8A2234 | FLANGE CLAMP FC220 WORM SCREW |
| 7 | 8A1009 | CLAMP HOSE 1" #16 |
| 8 | 8A2264 | M220 TO M200 90 SWEEP |
| 9 | 8A2239 | 2" MANIFOLD GASKET SKIRT |
| 10 | 8A2253 | FLANGE ELBOW 90 M200 1" |
| 11 | 8A2232 | FLANGE CLAMP FC100 WORM SCREW |

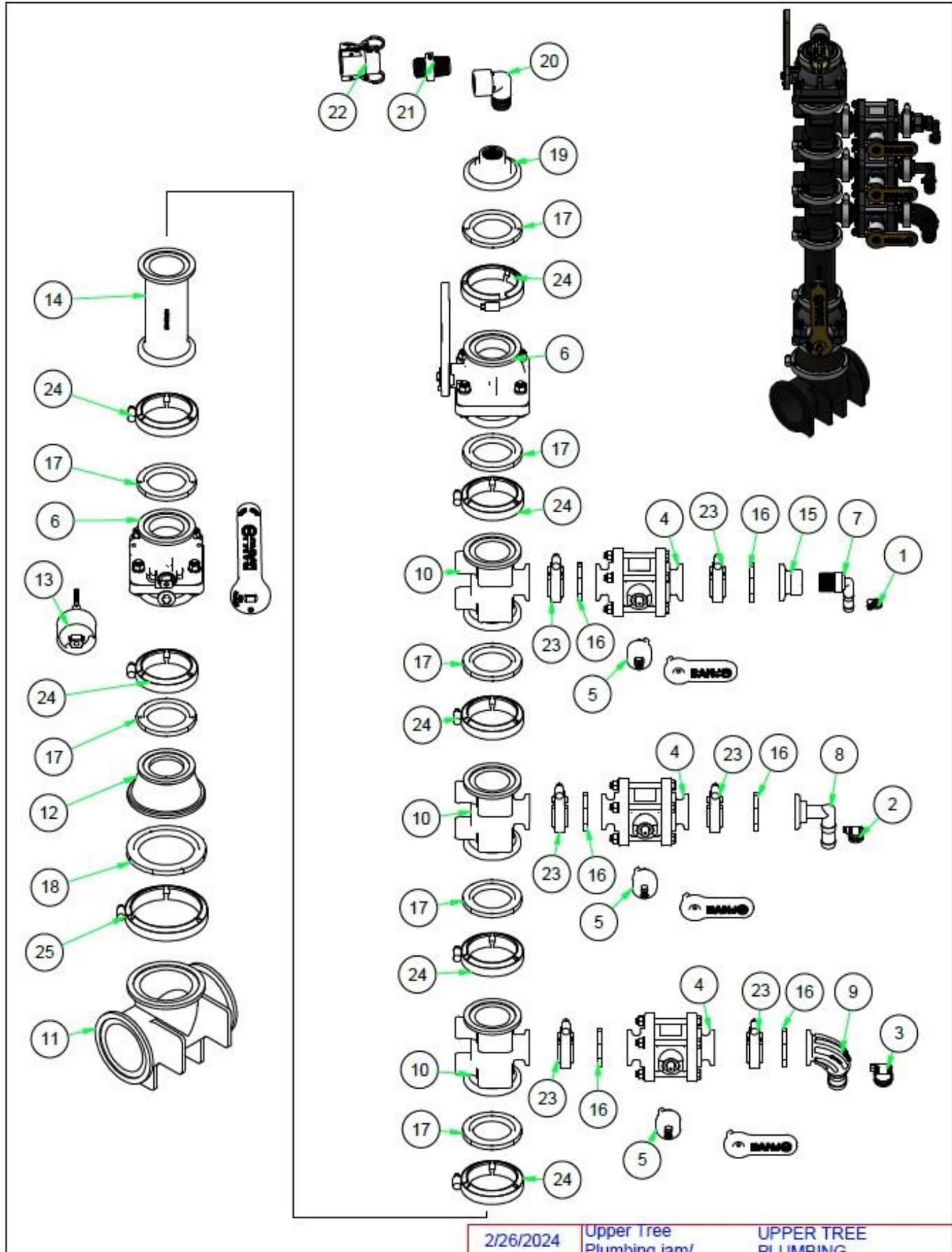
SFX1630/SFX2430 TANKS



SFX1630/SFX2430 TANKS

| ITEM | PART NUMBER | DESCRIPTION |
|-------------------------------|-------------|---|
| 1 | 8A2508A | BOTTLE RINSE PLUNGER |
| 2 | 8A2508B | BOTTLE RINSE NOZZLE |
| 3 | 8A1400 | 3/4" BULKHEAD COMPLETE |
| 4 | 8A2007 | BARB HOSE 3/4" X 3/4 MPT |
| 5 | 8A2021 | BARB HOSE 3/4" X 1/2 MPT |
| 6 | 8F6040 | CHEMTANK SS 40GAL |
| 7 | 8A1403 | 1" BULKHEAD COMPLETE |
| 8 | 8A2032 | STREET ELBOW 1" |
| 9 | 8A2005G | TEE 3/4"MPT X 3/4"HB X 3/4"HB |
| 10 | 8A2015 | ELBOW 3/4" HB X 3/4 MPT |
| 11 | 8X0200 | NUT 3/8"-16NC SERFLANG SS |
| 12 | 8X1112 | CRG 3/8-16NC X 1" SS |
| 13 | 8A2013B | PLUG 1" |
| 14 | 8F0420 | SEAL RUBBER TRIM LOC 15- |
| 15 | 8A1007 | CLAMP HOSE 3/4" #12 |
| 16 | 8F6120 | GAUGE BRKT SFX |
| 17 | 8F6124 | TANK GAUGE SFX-40GAL |
| 18 | 8F6128 | TANK GAUGE SFX-80GAL |
| 19 | 8F6080 | CHEMTANK SS 80GAL |
| 20 | 8A4010 | HOSE 3/4" EPDM AG 200PSI BLACK (JUG/TANK RINSE) |
| 21* | 8A4008 | HOSE 1/2" EPDM AG 200PSI BLACK (RINSE WAND) |
| 22* | 8A4020 | HOSE 1" EPDM AG 200PSI BLACK (MANIFOLD RINSE) |
| *ITEM NOT PICTURED ON DIAGRAM | | |

SFX1630/SFX2430 RINSE PLUMBING



2/26/2024

Upper Tree
Plumbing iam/

UPPER TREE
PLUMBING

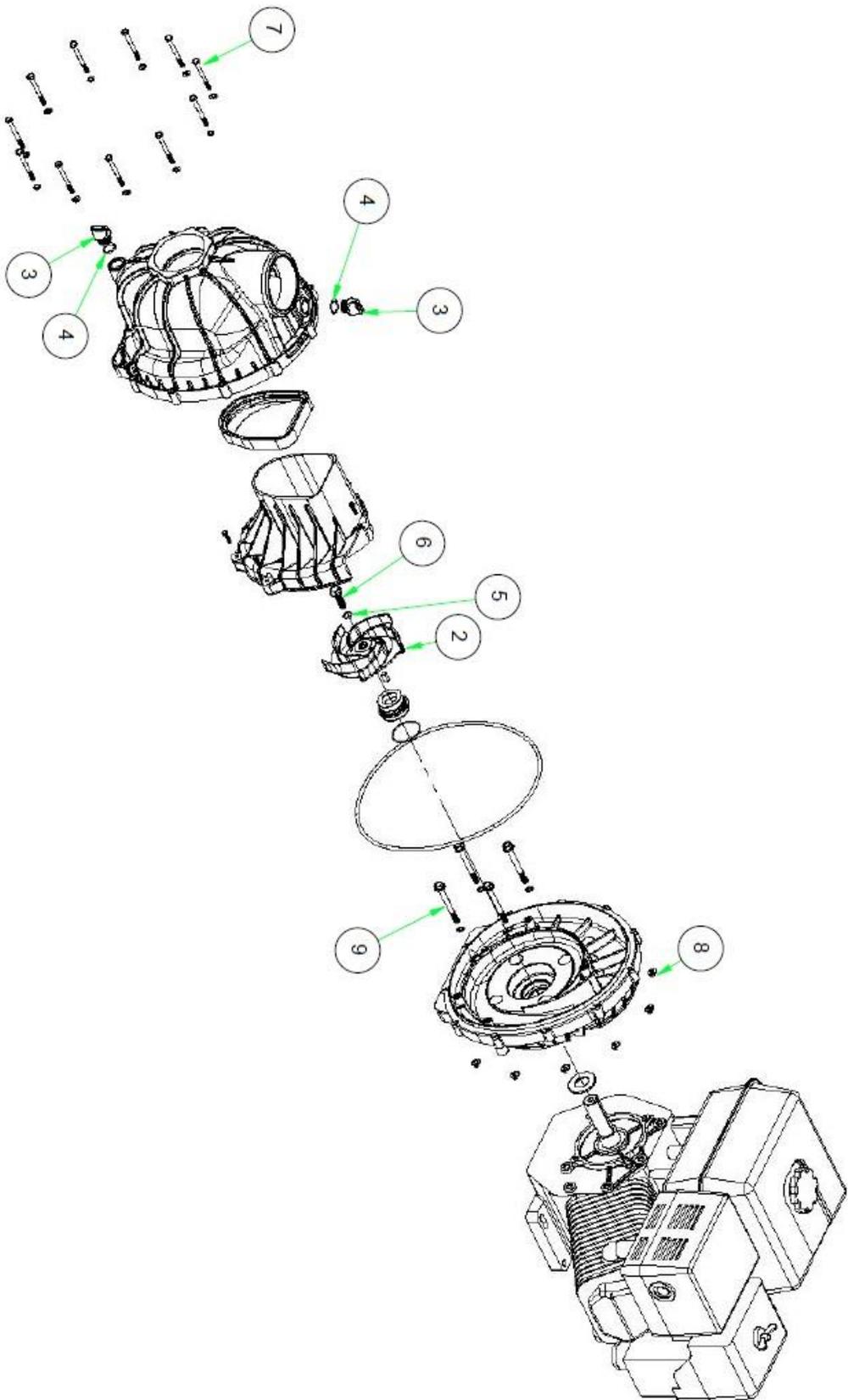
SFX1630/SFX2430 RINSE PLUMBING

| ITEM | PART NUMBER | DESCRIPTION |
|------|-------------|---------------------------------|
| 1 | 8A1003 | CLAMP HOSE 1/2" |
| 2 | 8A1007 | CLAMP HOSE 3/4" |
| 3 | 8A1009 | CLAMP HOSE 1" |
| 4 | 8A1253 | 1" FLANGED VALVE |
| 5 | 8A1253A | HANDLE RISER |
| 6 | 8A1734 | BALL VALVE 2" STUBBY |
| 7 | 8A2108 | ELBOW 1/2" HB X 3/4 MPT |
| 8 | 8A2250 | FLANGE ELBOW 90 M100 X 3/4"HB |
| 9 | 8A2251A | 1" FLANGE SWEEP ELBOW 90 DEGREE |
| 10 | 8A2298 | FLANGE TEE M220 X M220 X M100 |
| 11 | 8A2299 | FLANGE TEE M300 FULL PORT |
| 12 | 8A2328 | FLANGE REDUCER M300 X M220 |
| 13 | 8A1254 | BV HANDLE RISER 2X1.38" 15- |
| 14 | 8A2338 | 2" X 6" FULL PORT COUPLING |
| 15 | 8A2340 | FLANGE M100 X 3/4" FPT |
| 16 | 8A2381 | FLANGE GASKET 1" HYPRO |
| 17 | 8A2385 | FLANGE GASKET 2" HYPRO |
| 18 | 8A2387 | FLANGE GASKET 3" HYPRO |
| 19 | 8A2334 | FLANGE PLUG M220 W/3/4" FPT |
| 20 | 8A2008 | STREET ELBOW 3/4" |
| 21 | 8A2212 | 3/4" MPT X 3/4" GHMTHREAD |
| 22 | 8A2204 | 3/4" COUPLER X 3/4" GHFTHREAD |
| 23 | 8A2232 | FLANGE CLAMP FC100 WORM SCREW |
| 24 | 8A2234 | FLANGE CLAMP FC220 WORM SCREW |
| 25 | 8A2235 | FLANGE CLAMP FC300 WORM SCREW |

TRANSFER PUMP PACKAGE

| ITEM | PART NUMBER | DESCRIPTION |
|-------------------------------|-------------|---|
| 1 | 8F5362E | ENGINE 13HP HONDA ELEC START ELECTRONIC |
| 2 | 8F5368 | PUMP ONLY 3 X 3 POLY ENG |
| 3 | 8A2344 | FLANGE 3" MPT |
| 4 | 8A2249 | FLANGE ELBOW 45 3"HB |
| 5 | 8A1016 | HEAVY DUTY 3" HOSE CLAMP |
| 6 | 8X0093 | BOLT 5/8-11NC X 2" GR5 YZ |
| 7 | 8X0250 | NUT 5/8"-11NC HEX GR2 YZ |
| 8 | 8X0304 | LOCKWASHER 5/8" YLW ZNC |
| 9 | 8A2261 | FLANGE SWEEP ELBOW HB 3" 90 |
| 10 | 8A2323 | FLANGE SWEEP ELBOW 3" 90 |
| 11 | 8A2387 | FLANGE GASKET 3" |
| 12 | 8F7900A | SKID ENGINE MOUNTING |
| 13 | 8X0008 | BOLT 3/8-16NC X 2" GR5 ZDI |
| 14 | 8X0320 | WASHER 3/8" (7/16" ID)FLAT ZDI |
| 15 | 8X0202 | NUT 3/8"-16NC NY-LOCK GR2 YZ |
| 16 | 8X0010 | BOLT 1/4-20NC X 1-1/4" GR5 ZDI |
| 17 | 8X0222 | NUT 1/4"-20NC NY-LOCK GR2 YZ |
| 18 | 8A4036 | HOSE 3" REINFORCED FERT X 1.25' 85PSI |
| 19 | 8A2235 | FLANGE CLAMP FC300 WORM SCREW |
| 20 | 8F5815 | REMOTE CONTROL PANEL |
| 21 | 8F5820 | RADIO CONTROL FOR 8F5362E |
| 22 | 8X0160 | SCREW NO. 10 X 24 - 5/8" |
| 23 | 8X0206 | NUT 10-24 HEX YZ NYLOCK |
| 24 | 8X0000 | BOLT 1/4-20X3/4" FLLTHD GR5 YZ |
| 25 | 8X0222 | NUT 1/4"-20NC NY-LOCK GR2 YZ |
| 26 | 8X0332 | WASHER 1/4"(5/16" ID) FLAT ZDI |
| 27* | 8F5803 | HONDA THROTTLE SWITCH ASM 23- |
| *ITEM NOT PICTURED ON DIAGRAM | | |

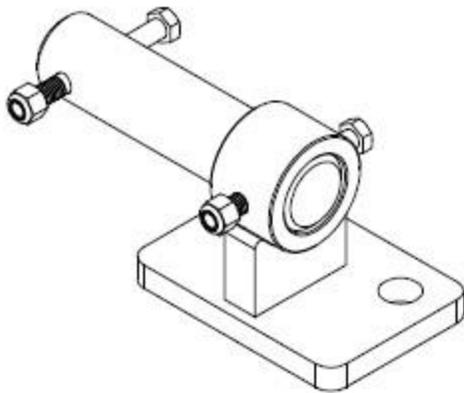
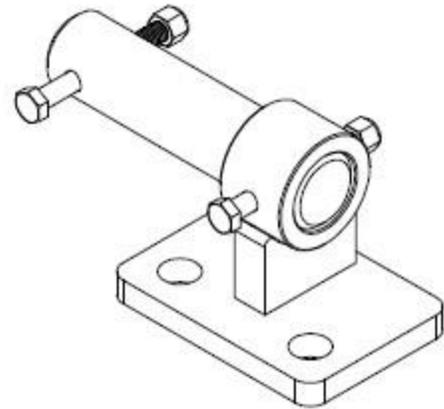
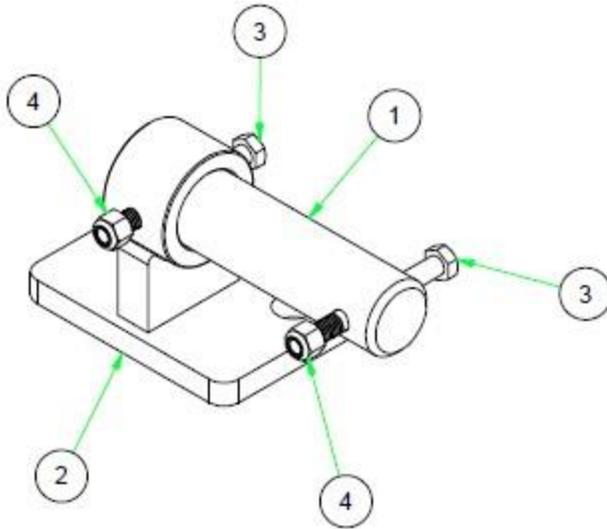
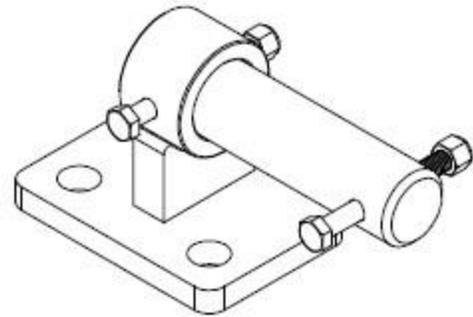
TRANSFER PUMP



TRANSFER PUMP

| ITEM | PART NUMBER | DESCRIPTION |
|-------------------------------|-------------|-----------------------------------|
| 1* | 8A0970 | SEAL KIT 3" POLY TRNS PUMP |
| 2 | 8A0971 | IMPELLER 3" POLY TRNS PUMP |
| 3 | 8A0972 | FILL/DRAIN PLUG 3" POLY TRNS PUMP |
| 4 | 8A0973 | O-RING FOR FILL/DRAIN PLUG |
| 5 | 8A0974 | O-RING FOR IMPELLER BOLT |
| 6 | 8A0975 | BOLT HEX FLNG IMPELLER |
| 7 | 8A0976 | BOLT PUMP HALF HX HD CP |
| 8 | 8A0977 | NUT HEX FLANGE |
| 9 | 8A0978 | BOLT PUMP TO ENGINE |
| *ITEM NOT PICTURED ON DIAGRAM | | |

MOUNTING PACKAGE



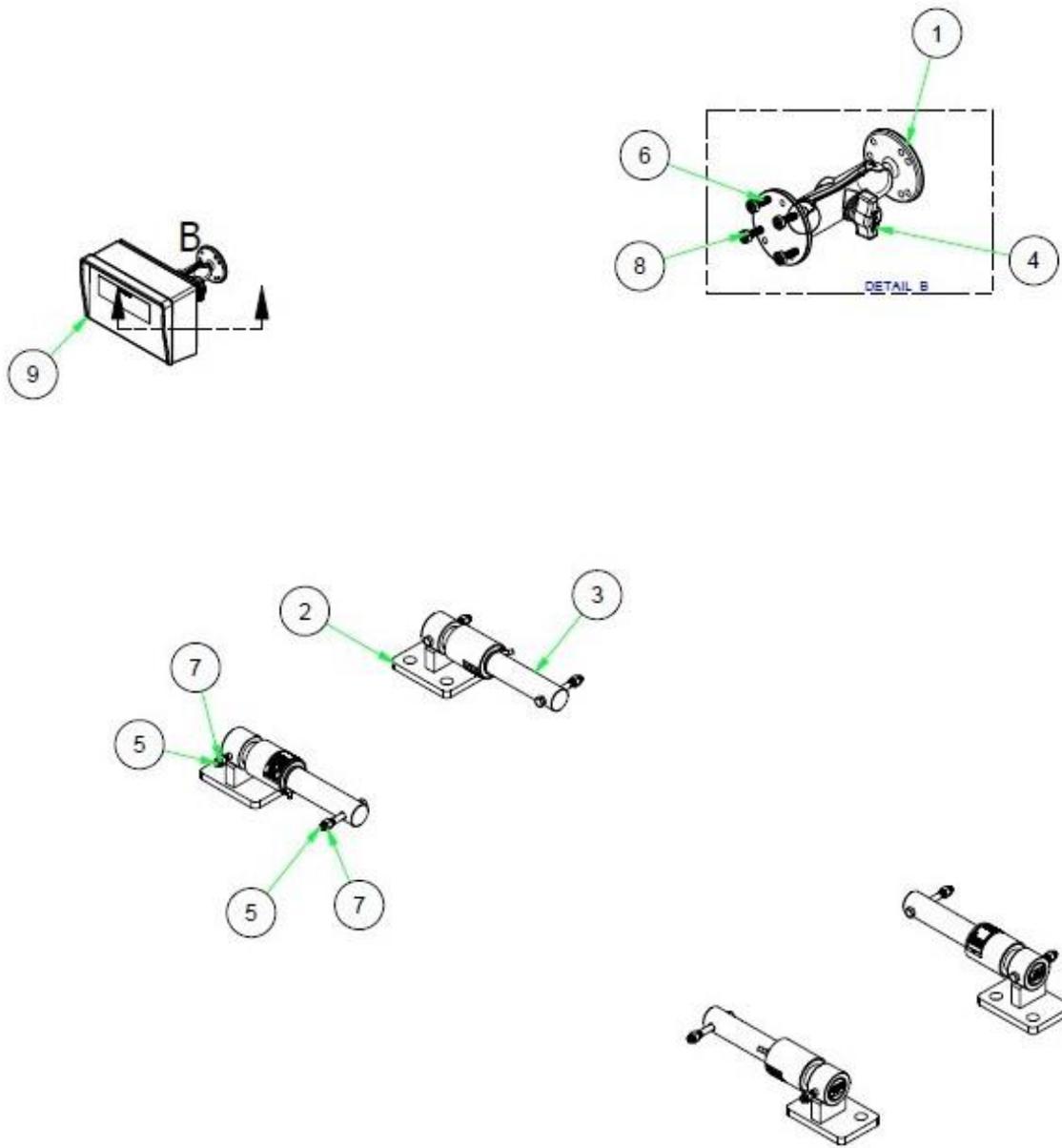
12/9/2015

8F6190.iam/MOUNTING PACKAGE

MOUNTING PACKAGE

| ITEM | PART NUMBER | DESCRIPTION |
|------|-------------|------------------------------|
| 1 | 8F0430 | SPRAY FILL MOUNTING PIN PLTD |
| 2 | 8F6180 | WEIGHT SUPPORT BRACKET |
| 3 | 8X0016A | 3/8 - 16x3.5" SS BOLT |
| 4 | 8X0202 | NUT 3/8-16NC NY-LOCK GR2 YZ |

SCALE & MOUNTING PACKAGE



12/17/2015

8F6210.iam/FAST FILL SCALE & MOUNTS

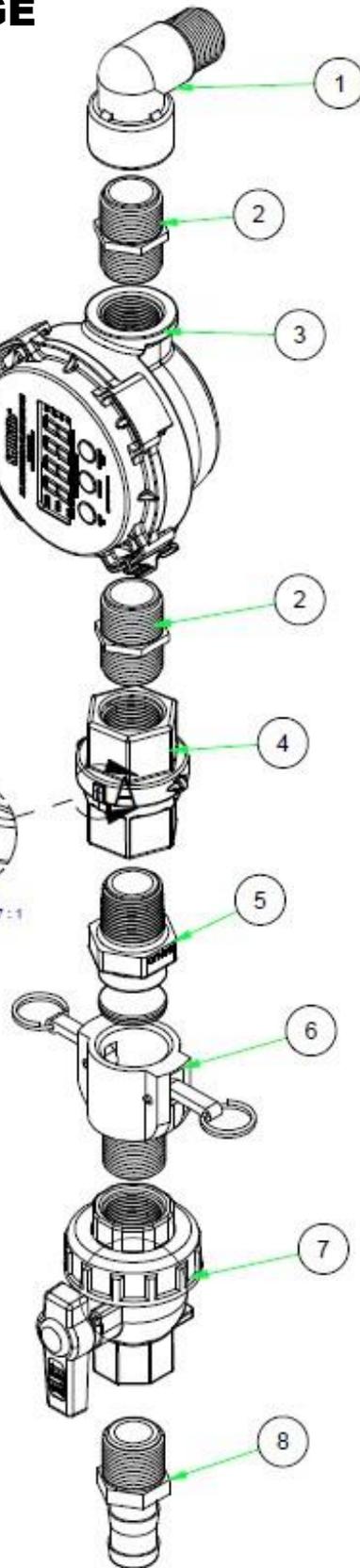
SCALE & MOUNTING PACKAGE

| ITEM | PART NUMBER | DESCRIPTION |
|------|-------------|--|
| 1 | 8F0002 | RAM BASE 2.5" W/1" BALL |
| 2 | 8F6180 | WEIGHT SUPPORT BRACKET |
| 3 | 8F6200 | EZ 400 SCALE SYSTEM, COMPLETE WITH DISPLAY, WEIGH BARS |
| 4 | 8N0141 | RAM MOUNT |
| 5 | 8X0016A | 3/8 - 16 x 3.5" SS bolt |
| 6 | 8X0161 | SCREW SKT HD 10 X 24 X 1" SS |
| 7 | 8X0202 | NUT 3/8"-16NC NY-LOCK GR2 YZ |
| 8 | 8X0207 | NUT THIN 10 X 24 NYLOCK SS |
| 9 | 8F6200A | EZ 400 SCALE DISPLAY ONLY |

FLOWMETER PACKAGE

METER CAN BE ROTATED
4 DIFFERENT DIRECTIONS

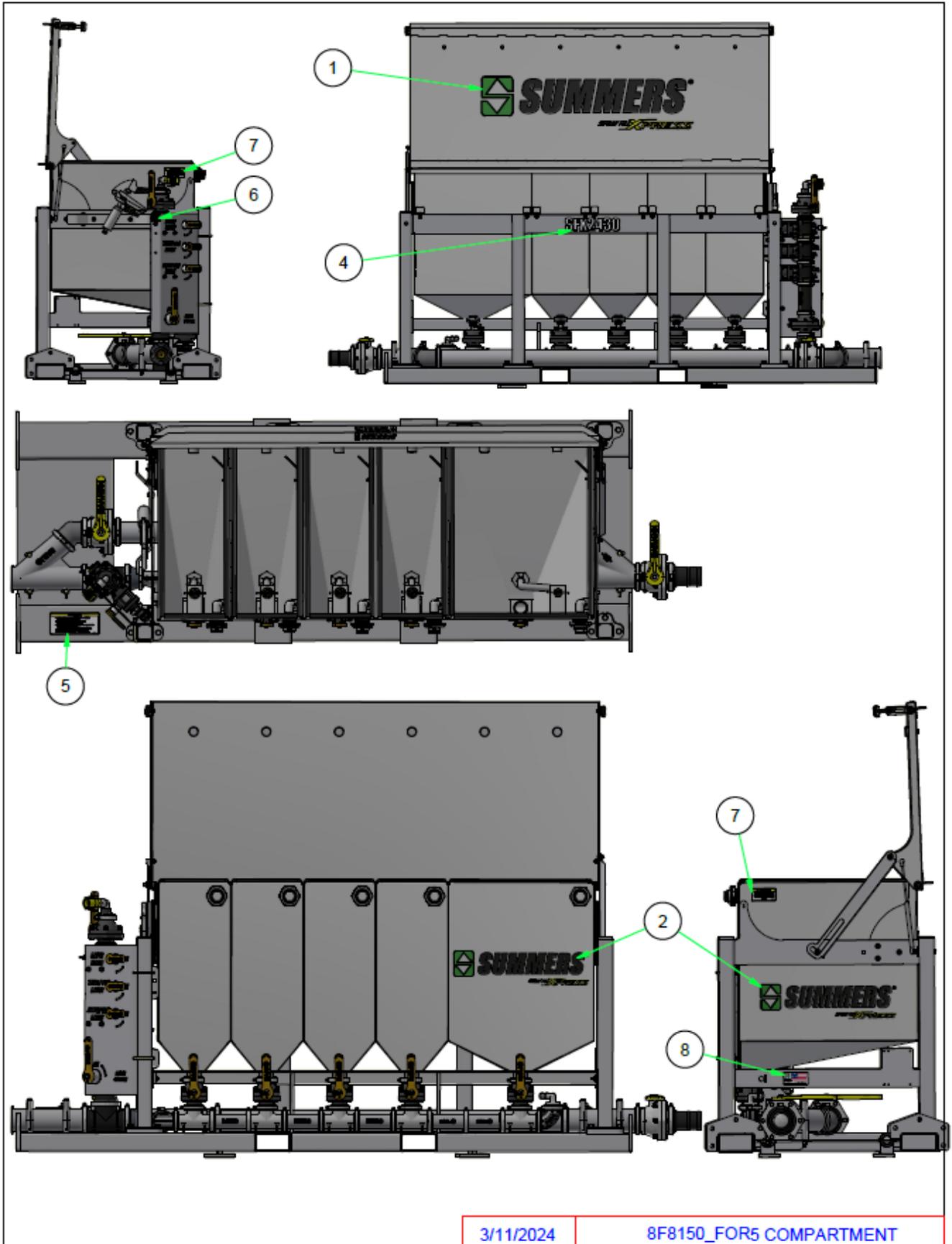
NOTE DIRECTION OF ARROW



FLOWMETER PACKAGE

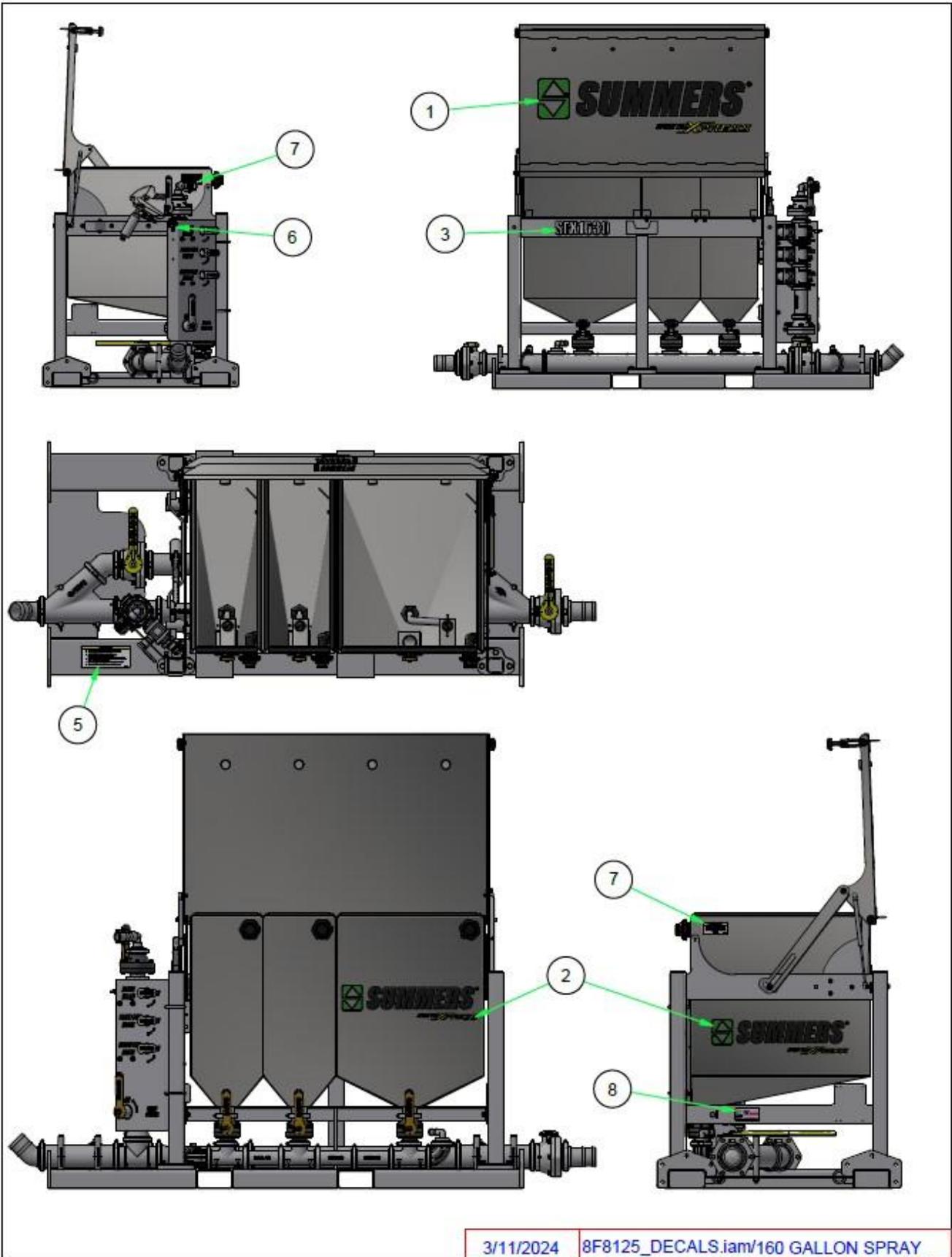
| ITEM | PART NUMBER | DESCRIPTION |
|------|-------------|----------------------------|
| 1 | 8A2032 | STREET ELBOW 1" |
| 2 | 8A2001 | NIPPLE 1" |
| 3 | 8A1840 | SHURFLO FLOWMETER FM-1101I |
| 4 | 8A2143 | 1" FEMALE NPT CHECK |
| 5 | 8A2092 | MALE ADAPTER 1" MPT |
| 6 | 8A2087 | COUPLER 1" CAMLOCK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

SFX2430 DECALS



3/11/2024 8F8150_FOR5 COMPARTMENT
RENDERING.IAM/FAST FILL ASSEMBLY

SFX1630 DECALS



3/11/2024 8F8125_DECALS.iam/160 GALLON SPRAY
FILL XPRESS 3 HPPR

DECALS



DECALS

| ITEM | PART NUMBER | DESCRIPTION |
|------|-------------|---------------------------|
| 1 | 8Z2519 | DECAL SFX-SUMMERS 45" LID |
| 2 | 8Z2514 | DECAL SFX-SUMMERS 23" |
| 3 | 8Z2509 | DECAL SFX1630 |
| 4 | 8Z2511 | DECAL SFX2430 |
| 5 | 8Z0580 | DECAL SFX GENERAL CAUTION |
| 6 | 8Z0560 | HONDA THROTTLE DECAL |
| 7 | 8Z0570 | DECAL CAUTION TRANSPORT |
| 8 | 8Z0100 | DECAL MADE IN USA |

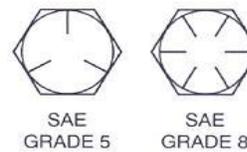
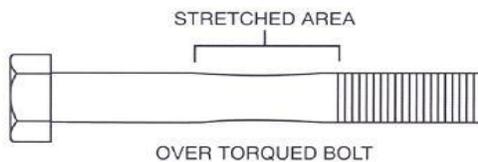
| SPECIFICATIONS | | | | |
|----------------|-------|--------|-------------------|--------------------|
| MODEL | WIDTH | HEIGHT | LENGTH W/O ENGINE | LENGTH WITH ENGINE |
| SFX1630 | 40" | 46" | 91" | 119" |
| SFX2430 | 40" | 46" | 114" | 142" |

| APPROXIMATE WEIGHTS | | | |
|---------------------|-------------|--------|----------|
| MODEL | PART NUMBER | TANK # | WEIGHT |
| SFX1630 | 8F8115 | 2 | 945 LBS |
| | 8F8125 | 3 | 1003 LBS |
| | 8F8135 | 4 | 1065 LBS |
| SFX2430 | 8F8130 | 3 | 1297 LBS |
| | 8F8140 | 4 | 1372 LBS |
| | 8F8150 | 5 | 1523 LBS |
| | 8F8160 | 6 | 1530 LBS |

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