

FAST™

AG SOLUTIONS



CASE TRACK TANK C4T500 INSTALLATION AND PARTS MANUAL





FAST GLOBAL
SOLUTIONS



Table of Contents

Section	Page
Table of Contents	1
Warranty	1
Warranty Registration	2
General Information	5
Foreward	6
Safety	9
Assembly Instructions	19
Table of Contents	29
Side Tanks Base Assembly	31
Side Tanks Base Assembly	33
Side Tank Mount Assembly	35
Side Tank Hydraulic Kit	37
Standard Side Tanks Hardware	39
Standard Side Tanks Hardware	41
Standard Plumbing Side Tank Assembly	43
Standard Plumbing Side Tank Assembly	45
Standard Plumbing Side Tank Assembly	47
Standard Plumbing Without Pump Assembly	49
Standard Plumbing Without Pump Assembly	51
Standard Plumbing Without Pump Assembly	53
Standard Plumbing With Pump Assembly	55
Standard Plumbing With Pump Assembly	57
Standard Plumbing With Pump Assembly	59
No Rear Tank Product Plumbing Cap	61
Rear Tank Product Plumbing	63
Rear Tank Product Plumbing	65
Rear Tank Product Plumbing	67
Rear Tank Hardware	69
HYPRO 930C-HM1C Pump Assembly	71
HYPRO 930C-HM1C Pump (550011)	73
HYPRO 930C-HM1C Pump (550011)	75
ACE 204-HYD-304 Pump Assembly	77
ACE 204-HYD-304 Pump (550025)	79
3" Quick Fill Valve Assembly	81
2" Quick Fill Valve Adapter Assembly	83
Assembly Checklist	85



ILLUSTRATED PARTS LIST

Limited Warranty

FAST AG Solutions warrants to the buyer that the new machinery is free from defects in material and workmanship.

This warranty is only effective as to any new machinery which has not been altered, changed, repaired or treated since its delivery to the buyer, other than by FAST AG Solutions or its authorized dealers or employees, and does not apply to accessories, attachments, tools or parts, sold or operated with the new machinery, if they have not been manufactured by FAST AG Solutions.

FAST AG Solutions shall only be liable for defects in the materials or workmanship attributable to faulty material or bad workmanship that can be proved by the buyer, and specifically excludes liability for repairs arising as a result of normal wear and tear of the new machinery or in any other manner whatsoever, and without limiting the generality of the foregoing, excludes application or installation of parts not completed in accordance with this operator's manual, specifications, or printed instructions.

Written notice shall be given by registered mail, to the Manufacturer within seven (7) days after the defect shall have become apparent or the repairs shall have become necessary, addressed as follows:

FAST AG Solutions
4130 Commerce Boulevard
Windom, MN 56101

This warranty shall expire one (1) year after the date of delivery of the new machinery.

If these conditions are fulfilled, FAST AG Solutions shall at its own cost and at its own option either repair or replace any defective parts provided that the buyer shall be responsible for all expenses incurred as a result of repairs, labor, parts, transportation or any other work, unless FAST AG Solutions has authorized such expenses in advance.

The warranty shall not extend to any repairs, changes, alterations, or replacements made to the new equipment other than by FAST AG Solutions or its authorized dealers or employees.

This warranty extends only to the original owner of the new equipment.

Rubber parts (including tires, hoses, grommets) are not warranted.

This warranty is limited to the terms stated herein and is in lieu of any other warranties whether express or implied, and without limiting the generality of the foregoing, excluded all warranties, express or implied or conditions whether statutory or otherwise as to quality and fitness for any purpose of the new equipment. the Manufacturer disclaims all liability for incidental or consequential damages.

This Applicator is subject to design changes and FAST AG Solutions shall not be required to retrofit or exchange items on previously sold units except at its own option.

Warranty void if not registered.



ILLUSTRATED PARTS LIST

FAST C4T500 TRACK TANKS

Warranty Registration Form & Inspection Report

Warranty Registration

This form must be filled out by the dealer and signed by both the dealer and the customer at the time of delivery.

Customer Name				
Address				
City		State		Zip
Phone				
Dealer Name				
Address				
City		State		Zip
Applicator Model				
Serial Number				
Delivery Date				

DEALER INSPECTION REPORT

- All Fasteners Tight
- Wheel Bolts Torqued
- Hydraulic Hoses and Fittings Free and Tight
- Fertilizer Hoses and Fittings Free and Tight
- Wheel Drive Turns Freely
- Lubricate Machine
- Check Tire Pressure
- Frame and Wings Level
- Monitors and Controllers Function
- Wiring Harness Connected

SAFETY

- Safety Chain Installed
- All Guards Installed
- All Safety Signs Installed
- Reflectors, SMV and Lights Clean
- Review Operating and Safety Instructions

I have thoroughly instructed the buyer on the above described equipment which review included the Operator's Manual content, equipment care, adjustments, safe operation and applicable warranty policy.

Date _____

Dealer's Rep. Signature _____

The above equipment and Operator's Manual have been received by me and I have been thoroughly instructed as to care, adjustments, safe operation and applicable warranty policy.

Date _____

Owner's Signature _____

- White - FAST
- Yellow - Dealer
- Pink - Customer



ILLUSTRATED PARTS LIST

FAST C4T500 TRACK TANKS

TRACK TANKS SERIAL NUMBER _____

DATE PURCHASED _____ / _____ / _____

TANK SIZE _____

PUMP MANUFACTURER:

(CIRCLE ONE)

ACE 204-HYD-304

HYPRO 930C-HM1C



ILLUSTRATED PARTS LIST





ILLUSTRATED PARTS LIST

General Information

All rights, especially copying and distribution rights are reserved. No part of this publication may be reproduced in any form or by any means, electronic or mechanical, including photocopying, without express written permission from FAST AG Solutions.

Parts information in this manual represents components installed when product was manufactured based upon the best available information. Modifications made subsequent to initial delivery are not included. Always verify the parts and color required when ordering parts.

If you have any questions, please contact your FAST AG Solutions Parts and Service Department.

Explanation of Parts Lists

The parts lists are broken down sub assemblies and listed in 4 columns:

- ITEM - These numbers are found on the illustration associated with the parts list.
 - NS- This item is NOT SHOWN, included for reference.
- QTY. - This is the quantity of parts needed in an assembly.
 - AR- The quantity of this item is AS REQUIRED for the location.
- PART NO.- These are the part numbers associated to the ITEM.
- DESCRIPTION - This is the description of the part.

Foreword



READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage. This manual and safety signs on your machine may also be available in other languages.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in direction implement will travel when going forward.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in Specification section. Accurately record all numbers to help in tracing machine should it be stolen. Your dealer also needs these numbers when you order parts. File identification numbers in a safe place off machine.

BEFORE DELIVERING THIS MACHINE, your dealer performed a pre-delivery inspection.

THESE TANKS ARE DESIGNED SOLELY for use in customary agricultural or similar operations for the purpose of applying crop protection chemicals (“INTENDED USE”). Use in any other way is considered as contrary to the intended use. The manufacturer accepts no liability for damage or injury resulting from this misuse, and these risks must



Foreword

be borne solely by the user. Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacturer also constitute essential elements for the intended use.

THESE FAST TRACK TANKS SHOULD BE OPERATED, serviced and repaired only by persons familiar with all its particular characteristics and acquainted with the relevant safety rules (accident prevention). The accident prevention regulations, all other generally recognized regulations on safety and occupational medicine and the road traffic regulations must be observed at all times. Any arbitrary modifications carried out on the FAST TRACK TANKS will relieve the manufacturer of all liability for any resulting damage or injury.

WARRANTY is provided as part of FAST's support program for customers who operate and maintain their equipment as described in this manual. Warranty is explained on warranty certificate which you should have received from your dealer.

This warranty provides you assurance that FAST will back its products where defects appear within warranty period. In some circumstances, by FAST also provides field improvements, often without charge to customer, even if product is out of warranty. Should equipment be abused, or modified to change its performance beyond original factory specifications, warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

If you are not the original owner of this machine, it is in your interest to contact your local FAST dealer to inform them of this unit's serial number. This will help FAST notify you of any issues or product improvements.



Owner Register

Name		Model Number
Post Office		P.I.N. Number
County	State	Date Purchased

Safety**Recognize Safety Information**

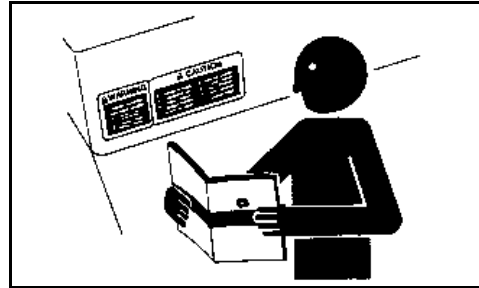
This is a safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.

Understand Signal Words

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

Follow Safety Instructions

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your FAST dealer.

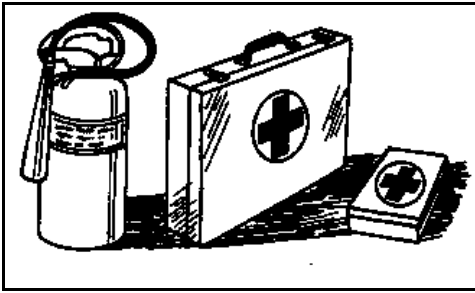
There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your FAST dealer.

Prepare for Emergencies

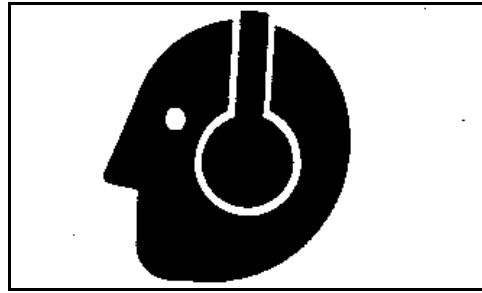


Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for poison control center, doctors, ambulance service, hospital, and fire department near your telephone.

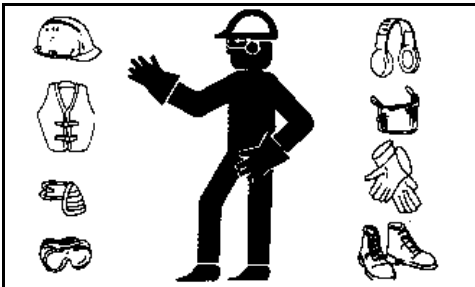
Protect Against Noise



Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Wear Protective Clothing



Wear close fitting clothing and safety equipment appropriate to the job.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

Practice Safe Maintenance



Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the

ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.

Support Raised Equipment



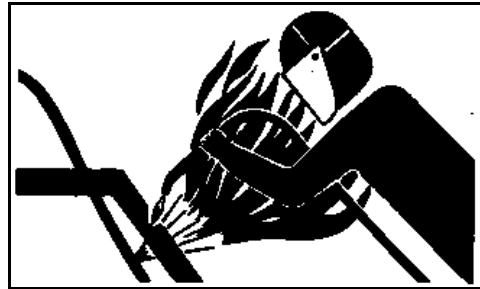
Always use a safety support when working on, under, or around machine. Transport/Service locks can be used for this purpose.

Shut off tractor engine and remove key when working on machine.

If air has been allowed to enter hydraulic hoses or cylinders, bleed hydraulic system before use. If there is a failure in hydraulic system, unsupported raised equipment could suddenly lower, causing serious personal injury or death.

If support is not available, completely lower wings and frame, relieve hydraulic pressure and disconnect hoses from tractor.

Avoid Heating Near Pressurized Fluid Lines



Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can accidentally burst when heat goes beyond the immediate flame area.

Avoid High-Pressure Fluids



Inspect hydraulic hoses periodically – at least once per year – for leakage, kinking, cuts, cracks, abrasion, blisters, corrosion, exposed wire braid or any other signs of wear or damage.

Replace worn or damaged hose assemblies immediately with FAST approved replacement parts.

Escaping fluid under pressure can penetrate the skin causing serious injury.

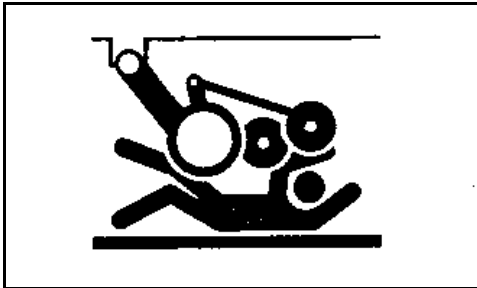
Avoid the hazard by relieving pressure before disconnecting hydraulic or other

lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high-pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.

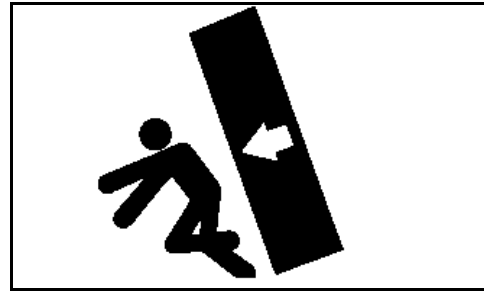
Inspect Lift Circuit Hoses



Avoid serious injury or death while working under a raised implement.

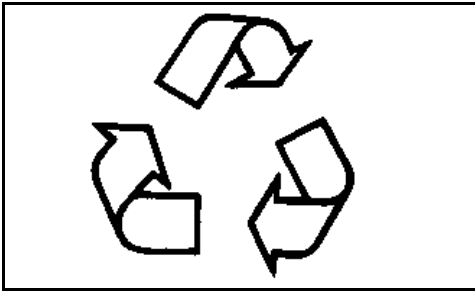
Hydraulic hoses between the lift cylinders and hydraulic lock-up valves should be inspected frequently for leakage, kinking, cuts, cracks, abrasion, blisters, corrosion, exposed wire braid or any other signs of wear or damage. Worn or damaged hose assemblies can fail during use and should be replaced immediately. See your FAST dealer for replacement hoses.

Store Attachments Safely



Stored attachments such as dual wheels can fall and cause serious injury or death.

Securely store attachments and implements to prevent falling. Keep playing children and bystanders away from storage area.

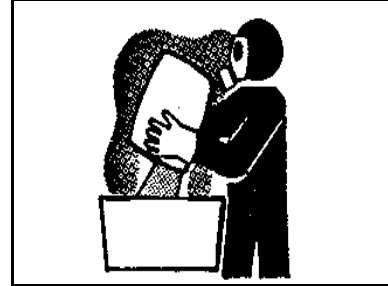
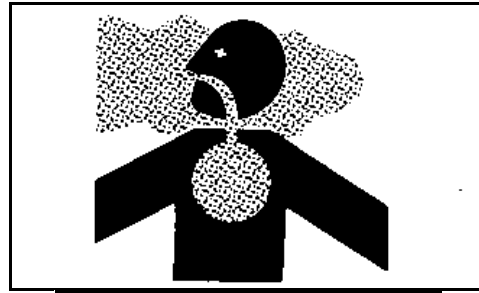
Dispose of Waste Properly

Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Handle Agricultural Chemicals Safely

Chemicals used in agricultural applications such as fungicides, herbicides, insecticides, pesticides, rodenticides, and fertilizers can be harmful to your health or the environment if not used carefully.

Always follow all label directions for effective, safe, and legal use of agricultural chemicals.

Reduce risk of exposure and injury:

Wear appropriate personal protective equipment as recommended by the manufacturer. In the absence of manufacturer's instructions, follow these general guidelines:

Chemicals labeled 'Danger': Most toxic. Generally require use of goggles, respirator, gloves, and skin protection.

Chemicals labeled 'Warning': Less toxic. Generally require use of goggles, gloves, and skin protections.

Chemicals labeled 'Caution': Least toxic. Generally require use of gloves and skin protection.

Avoid inhaling vapor, aerosol or dust.

Always have soap, water, and towel available when working with chemicals. If chemical contacts skin, hands, or face, wash immediately with soap and water. If chemical gets into eyes, flush immediately with water.

Wash hands and face after using chemicals and before eating, drinking, smoking, or urination.

Do not smoke or eat while applying chemicals.

After handling chemicals, always bathe or shower and change clothes. Wash clothing before wearing again.

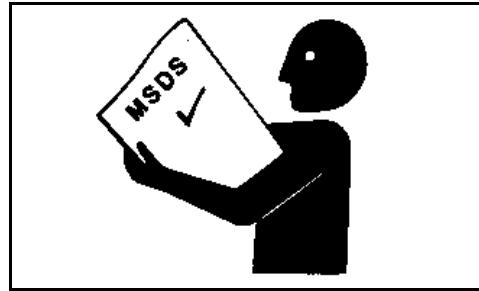
Seek medical attention immediately if illness occurs during or shortly after use of chemicals.

Keep chemicals in original containers. Do not transfer chemicals to unmarked containers or to containers used for food or drink.

Store chemicals in a secure, locked area away from human or livestock food. Keep children away.

Always dispose of containers properly. Triple rinse empty containers and puncture or crush containers and dispose of properly.

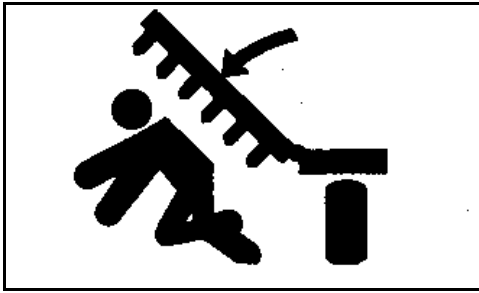
Handle Chemical Products Safely



Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with FAST equipment include such items as lubricants, coolants, paints, and adhesives.

A Material Safety Data Sheet (M/SDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Check the M/SDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

Operate Safely

Before operating, make sure air has been bled from wing-fold hydraulic system.

Be sure area around machine is clear before raising or lowering machine frame or wings.

Do not operate close to the edge of a ditch, creek, gully or steep embankment.

Avoid holes, ditches and obstructions which may cause tractor, machine, or towed equipment to roll over, especially on hillsides.

Avoid sharp turns on hillsides.

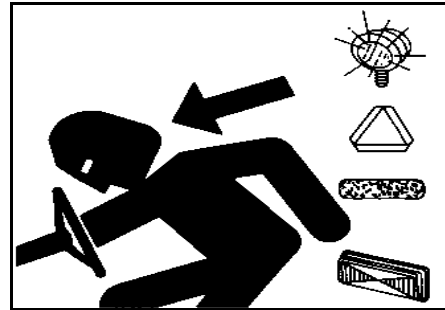
Slow down when turning or traveling over rough ground, and when turning on inclines.

Always shut off tractor and shift to PARK or set brakes when leaving tractor. Remove key when leaving tractor unattended.

Always have tractor stopped on level ground when raising or lowering wings.

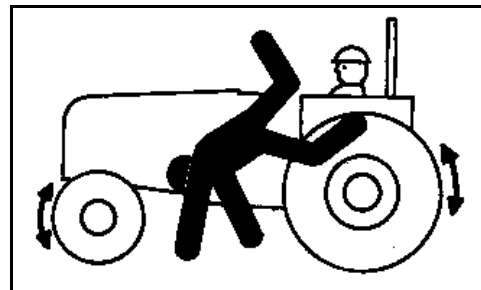
Operate machine from tractor seat only.

If chemicals are used, follow manufacturer's recommendations for handling and storage.

Use Safety Lights and Devices

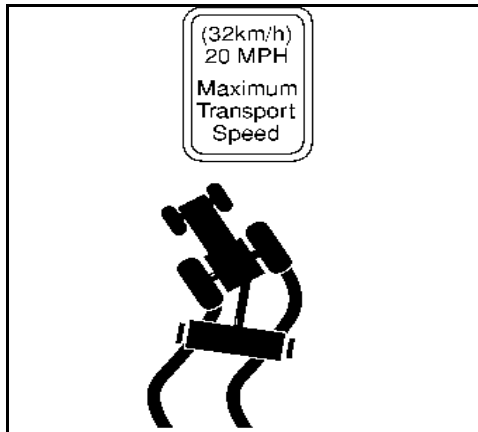
Prevent collisions between other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from the rear, especially in turns, and use turn signal lights.

Use headlights, flashing warning lights, and turn signals day and night. Follow local regulations for equipment lighting and marking. Keep lighting and marking visible, clean, and in good working order. Replace or repair lighting and marking that has been damaged or lost.

Keep Riders Off Machine

Only allow the operator on the machine. Keep riders off.

Riders on machine are subject to injury such as being struck by foreign objects and being thrown off of the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.

Observe Maximum Transport Speed

CAUTION: Be sure all bystanders are clear of equipment.

IMPORTANT: Transport only with tanks EMPTY to prevent equipment damage.

Some tractors are capable of operating at speeds that exceed the maximum transport speed of this implement. Regardless of the maximum speed capability of the tractor being used to tow this implement, do not exceed the implement's maximum transport speed.

Exceeding the implement's maximum transport speed can result in:

Loss of control of the tractor/implement combination

Reduced or no ability to stop during braking

Implement tire failure

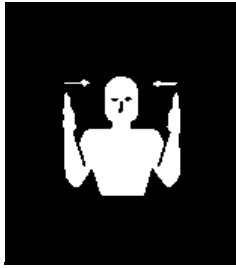
Damage to the implement structure or its components

Use additional caution and reduce speed when towing under adverse surface conditions, when turning, and when on inclines.

EC Compliance Notification

WARNING: Environmental transportation hazard. A loaded machine driven on public roads has a high risk of tire failure. Do not use the machine for transporting product on public roads.

Never transport with the tank filled with water or chemical.

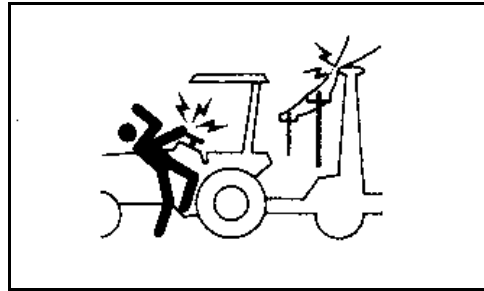
Use a Signal Person

Use a signal person to direct movement of the tractor, whenever the tractor operator's view is obstructed.

Designate one individual as THE signal person. Always have signal person stand in clear view. Be sure signal person stays a safe distance away from the machine when it is moving.

Prior to starting the tractor, discuss hand signals and what each signal means to avoid misunderstandings and confusion which could result in a serious injury or fatal accident for someone.

Keep all bystanders away whenever the machine is moved.

Avoid Overhead Power Lines

CAUTION: Keep away from overhead power lines. Serious injury or death may result. Proceed cautiously under overhead power lines and around utility poles. Know the transport height of your machine. Electrocutation can occur without direct contact with overhead electrical lines.

Prepare for Transport

 **CAUTION: Avoid serious injury or death to your or others.**

Be aware of height and width restrictions to avoid collision with overpasses or other road users.





Latch the tractor brakes together.

IMPORTANT: Do not transport on a roadway unless machine is equipped with proper functioning lights and reflective marking/emblems. Ensure that the lights and reflective marking/emblems are clean and visible. Contact your FAST dealer for lights and lighting harnesses.

Always follow local and national regulations for equipment size, lighting and marking before driving on public roadways. You are responsible for understanding and complying with all requirements regarding roadway transport. Refer to **USE SAFETY LIGHTS AND DEVICES** (in this section).

Safety Sign Locations

Safety signs and locations on machine are shown in the following illustrations. Familiarize yourself with safety signs, type of warning and area, or particular function related to that area, that requires your **SAFETY AWARENESS**.

 DANGER		
		
CHEMICAL HAZARD <i>To prevent serious injury or death:</i>		
WEAR RUBBER GLOVES	DON'T BREATHE VAPOR	DON'T INGEST CHEMICAL
<ul style="list-style-type: none"> • Do not allow chemical or solution to touch skin. Some can be absorbed through the skin. • Wear rubber gloves and protective gear at all times. 	<ul style="list-style-type: none"> • Stay away from chemical splash and vapor. Keep others away. • Do not breathe vapor. • Wear Proper respirator when working with chemicals 	<ul style="list-style-type: none"> • Chemicals can be toxic. • If in eyes or mouth, read chemical manufacturers' instructions and follow them exactly. • Seek medical attention immediately. • A poison control number is normally inside the front cover of your telephone book. 800007



Assembly Instructions

Upon arrival, the C4T500 Track Tanks require initial installation.

Unpack and inspect all parts for damaged or missing components.

Review and follow all safety instructions in this manual.

Read and understand the Assembly Instructions before beginning.

Gather tools needed for assembly.

Contact FAST AG Solutions with questions or for clarification.



The assembly of this equipment requires a minimum of two (2) people.

Wear appropriate PPE when assembling this equipment.

Do not place any part of your body under lifted or suspended components.

Be sure components are securely attached with all required hardware before removing lifting or supporting equipment.

Tools Required for Assembly

Equipment:

Lifting equipment
Jack Stands

Tools

Full Set of Wrenches from 5/16" - 1-1/8"
Torque Wrenches: 0 - 10 N-m (0 - 50 in-lbs)
0 - 400 N-m (0 - 300 ft-lbs)
Needle Nose Pliers
Dead Blow Hammer
Aligning Pry Bars
Flat Head Screwdriver

The color of the equipment or components in the photos may vary from your equipment, however the process for assembly is the same.

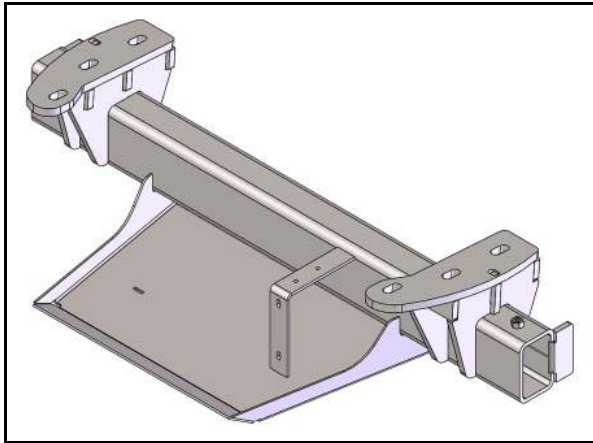
Install Front Tank Mount



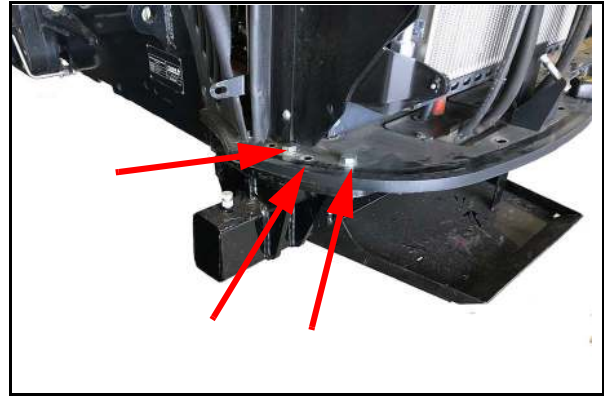
1. Remove toolbox and bracket from the left front of the machine.



WARNING
Front tank mount weighs approximately 218 lbs. Use an appropriate lifting device to prevent injury.



2. Install the front tank mount.



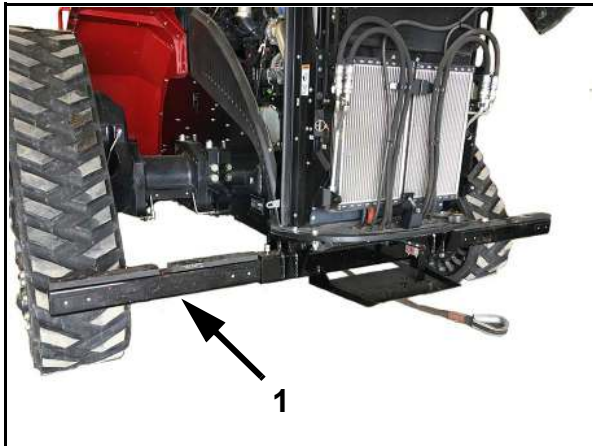
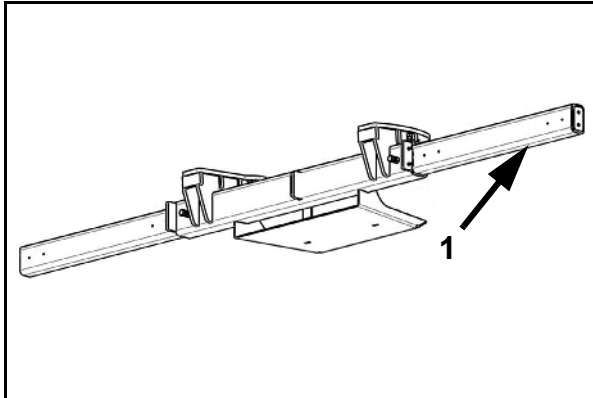
3. Install the hardware with six 10.9 M20 x 90MM bolts, lock washers and nuts and torque to 675 N-m (500 ft-lbs).

Install Cross Tube

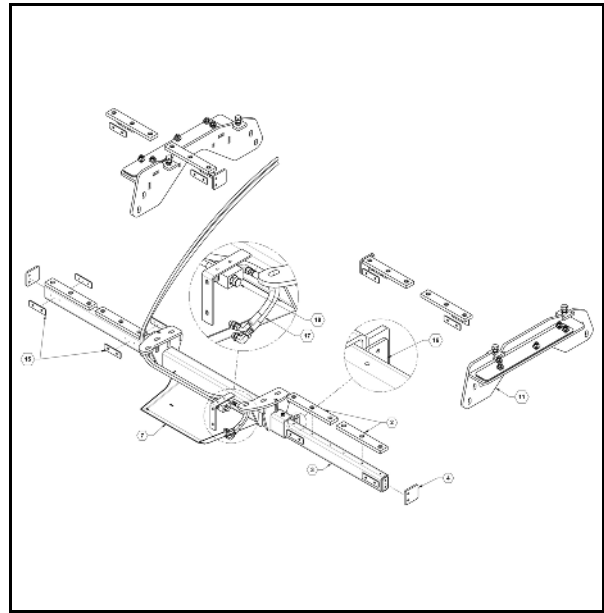


WARNING

Cross tube weighs approximately 195 lbs. Use an appropriate lifting device to prevent injury.



1. Insert front carry tube (1) into receiver tube and center as illustrated.



2. Install pads to the cross tube with twelve 3/8" x 1" bolts and lock washers. Torque to 44 N-m (32 ft-lbs).



3. Install four 5/8" x 2" bolts and jam nuts into the center tank mount. Tighten the bolts and jam nuts.

Install Left Side Tank



WARNING

Left-hand tank weighs approximately 920 lbs. Use an appropriate lifting device to prevent injury.



1. Connect an appropriate lifting device to the top lift points on the tank.



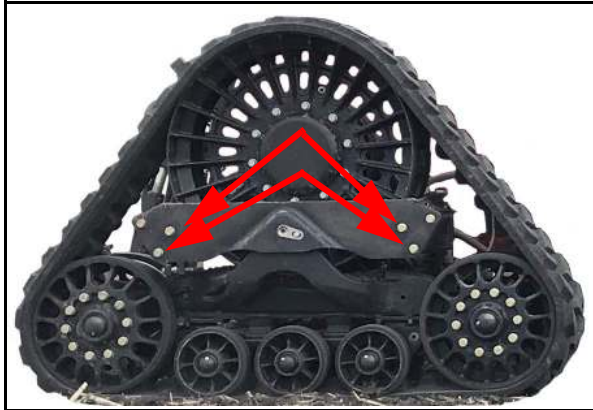
2. Raise tank and guide into tractor as far as possible through the front 3" x 5" cross tube. Lower tank onto axle in rear and brace with a 9.25" long 2x4 between the track and tank.

Install Left Tank Mount Bracket

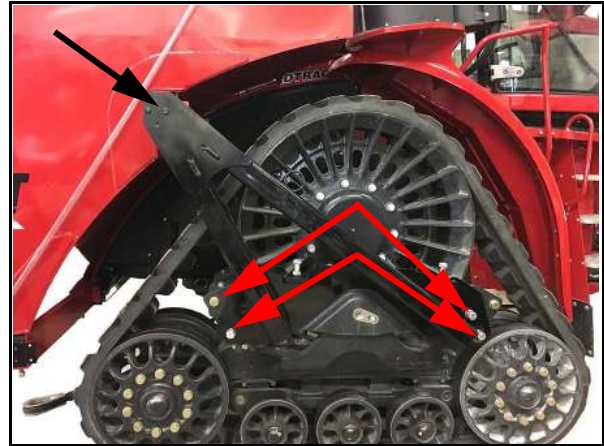


WARNING

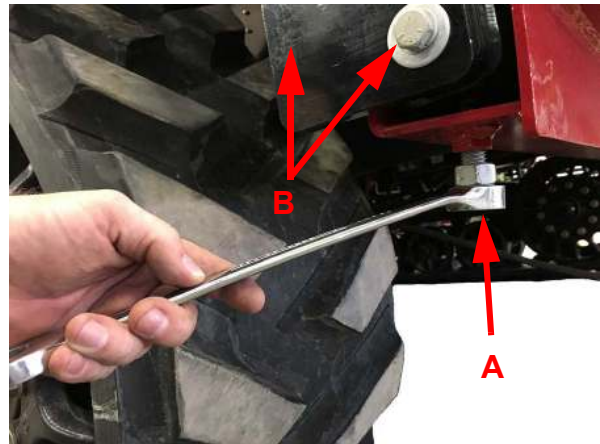
Lower Front tank mount bracket weighs approximately 410 lbs. Use an appropriate lifting device to prevent injury.



3. Remove the four inner bolts from the track, do not remove the front outer and rear outer bolts.



4. Install left side tank mount bracket assembly through the tank receiver to tractor with four 10.9 M24 x 75 mm bolts, lock washers and nuts. Torque to 1000 N-m (740 ft-lbs).



3. Install two 5/8" x 2" bolts and jam nuts (A) into the center tank mount. Tighten the bolts and jam nuts.

4. Install bolt plates (B) on the end of the upper and lower tubes using two 1/2" x 2" bolts, lock washers and flat washers. Torque to 77 N-m (57 ft-lbs).

Install Right Side Tank

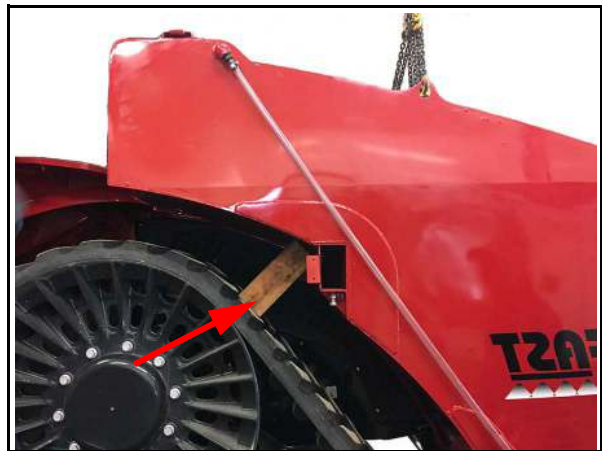


WARNING

Right-hand tank weighs approximately 920 lbs. Use an appropriate lifting device to prevent injury.



1. Install right-hand side tank using steps 1 through 4.



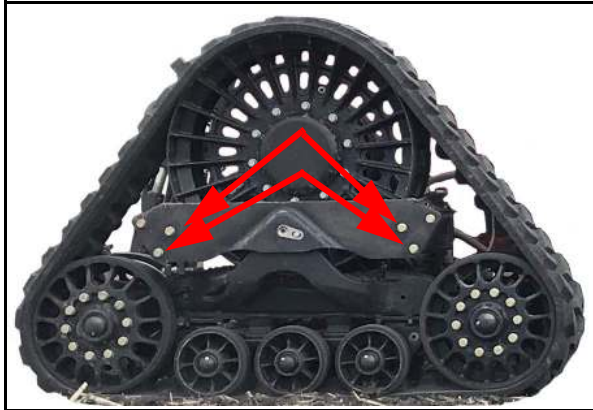
2. Raise tank and guide into tractor as far as possible through the front 3" x 5" cross tube. Lower tank onto axle in rear and brace with a 9.25" long 2x4 between the track and tank.

Install Right Tank Mount Bracket

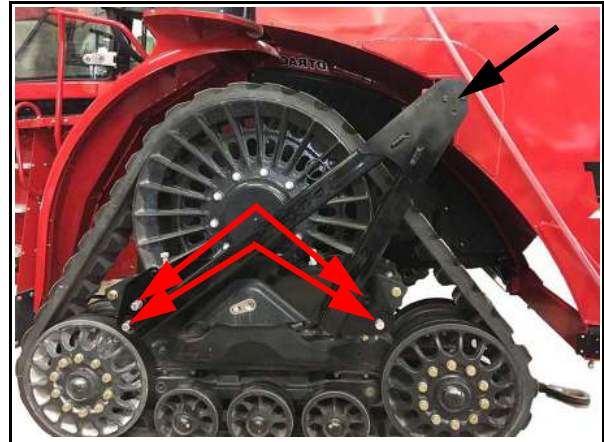


WARNING

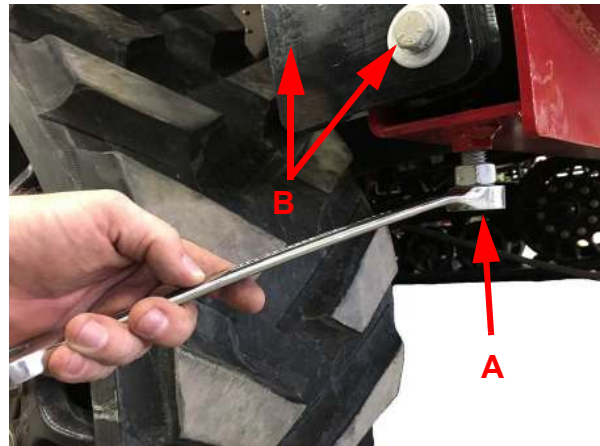
Lower Front tank mount bracket weighs approximately 410 lbs. Use an appropriate lifting device to prevent injury.



1. Remove the four inner bolts from the track, do not remove the front outer and rear outer bolts.



2. Install right side tank mount bracket assembly through the tank receiver to tractor with four 10.9 M24 x 75 mm bolts, lock washers and nuts. Torque to 1000 N-m (740 ft-lbs).



3. Install two 5/8" x 2" bolts and jam nuts (A) into the center tank mount. Tighten the bolts and jam nuts.

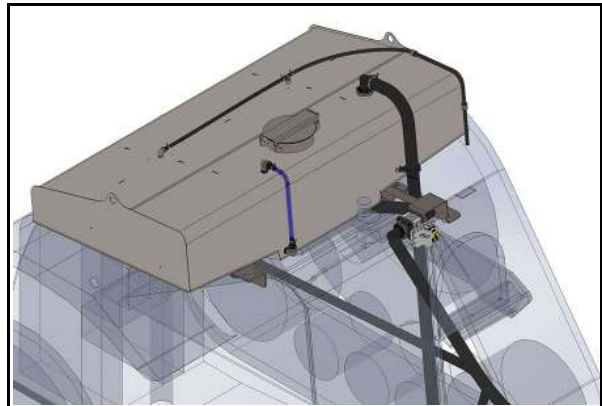
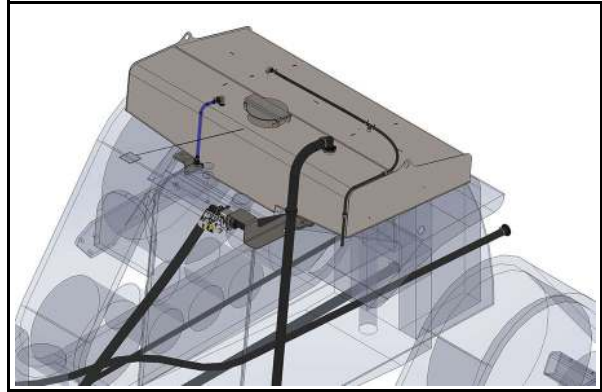
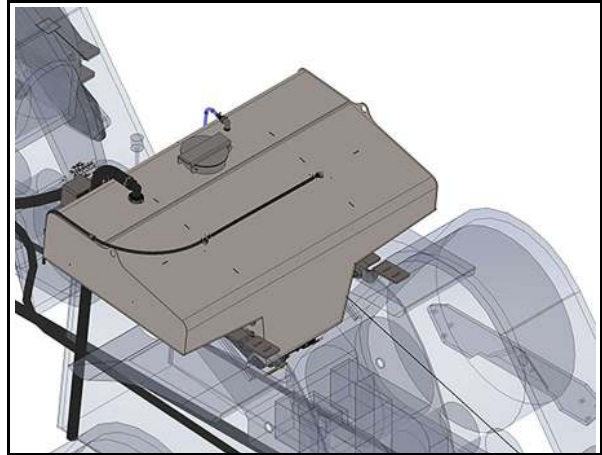
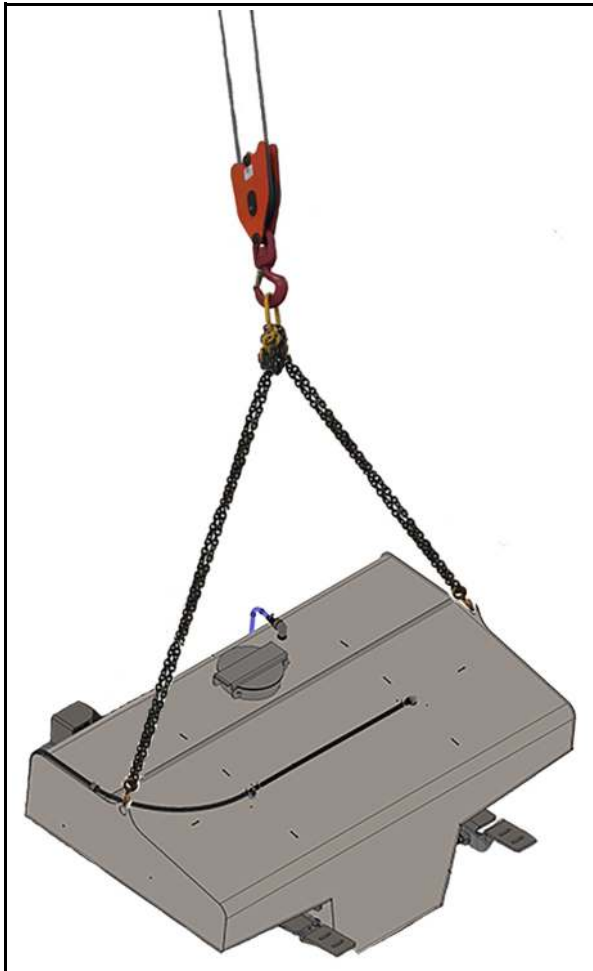
4. Install bolt plates (B) on the end of the upper and lower tubes using two 1/2" x 2" bolts, lock washers and flat washers. Torque to 77 N-m (57 ft-lbs).

Install Rear Tank (Option)

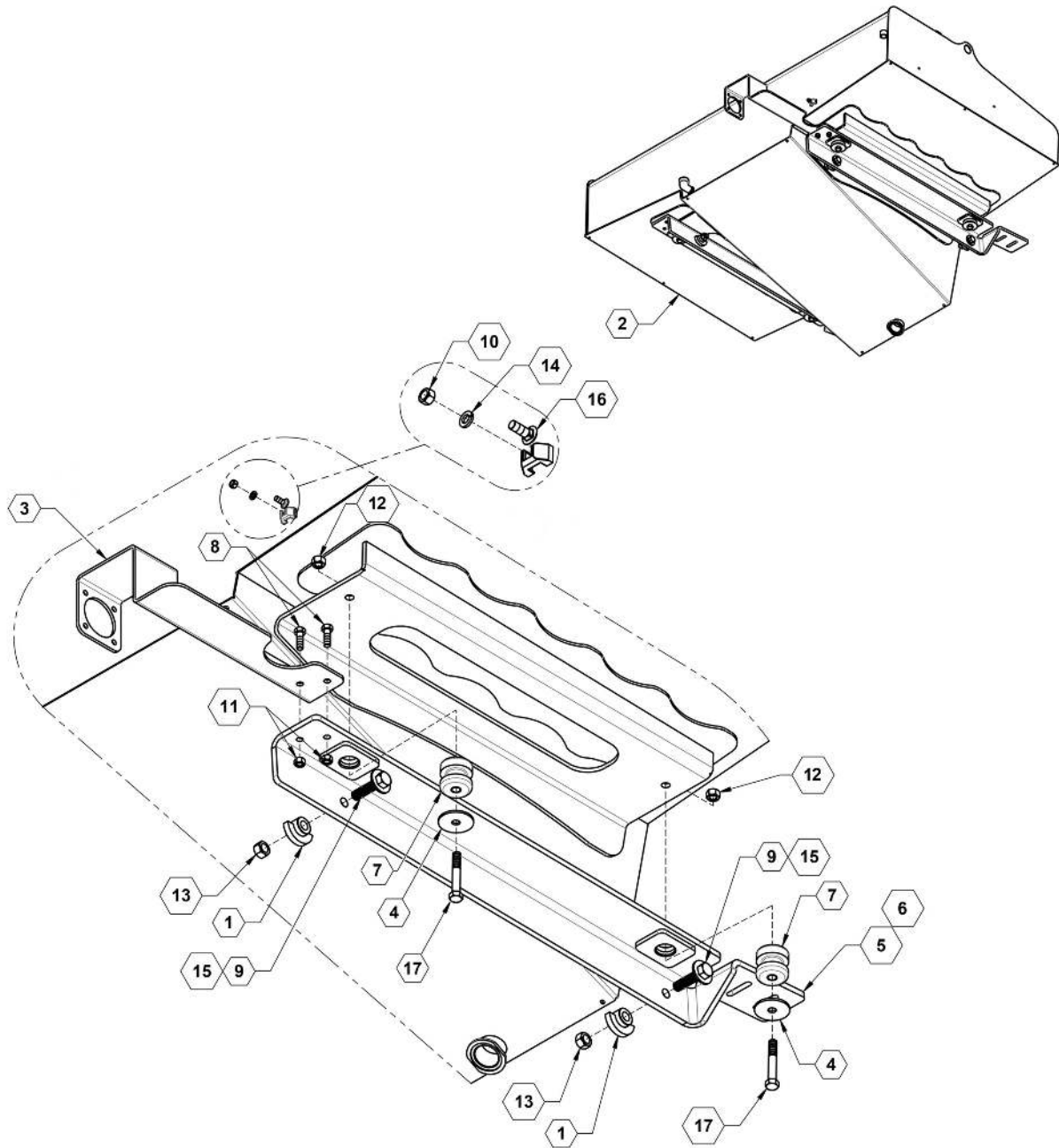


WARNING

The 300 gallon rear tank weighs approximately 690 lbs. Use an appropriate lifting device to prevent injury.



1. Position the tank into place.





Install Rear Tank Hardware

1. Install and torque the four bolts (17), washers (4) and isolators (7) and torque to 113 N-m (153 ft-lbs).
2. Install and torque the four bolts (9), washers (15), pin mounts (1), nuts (13) and torque to 273 N-m (201 ft-lbs).



ILLUSTRATED PARTS LIST

Table of Contents

Section	Page
Table of Contents	29
Side Tanks Base Assembly	31
Side Tanks Base Assembly	33
Side Tank Mount Assembly	35
Side Tank Hydraulic Kit	37
Standard Side Tanks Hardware	39
Standard Side Tanks Hardware	41
Standard Plumbing Side Tank Assembly	43
Standard Plumbing Side Tank Assembly	45
Standard Plumbing Side Tank Assembly	47
Standard Plumbing Without Pump Assembly	49
Standard Plumbing Without Pump Assembly	51
Standard Plumbing Without Pump Assembly	53
Standard Plumbing With Pump Assembly	55
Standard Plumbing With Pump Assembly	57
Standard Plumbing With Pump Assembly	59
No Rear Tank Product Plumbing Cap	61
Rear Tank Product Plumbing	63
Rear Tank Product Plumbing	65
Rear Tank Product Plumbing	67
Rear Tank Hardware	69
HYPRO 930C-HM1C Pump Assembly	71
HYPRO 930C-HM1C Pump (550011)	73
HYPRO 930C-HM1C Pump (550011)	75
ACE 204-HYD-304 Pump Assembly	77
ACE 204-HYD-304 Pump (550025)	79
3" Quick Fill Valve Assembly	81
2" Quick Fill Valve Adapter Assembly	83



ILLUSTRATED PARTS LIST

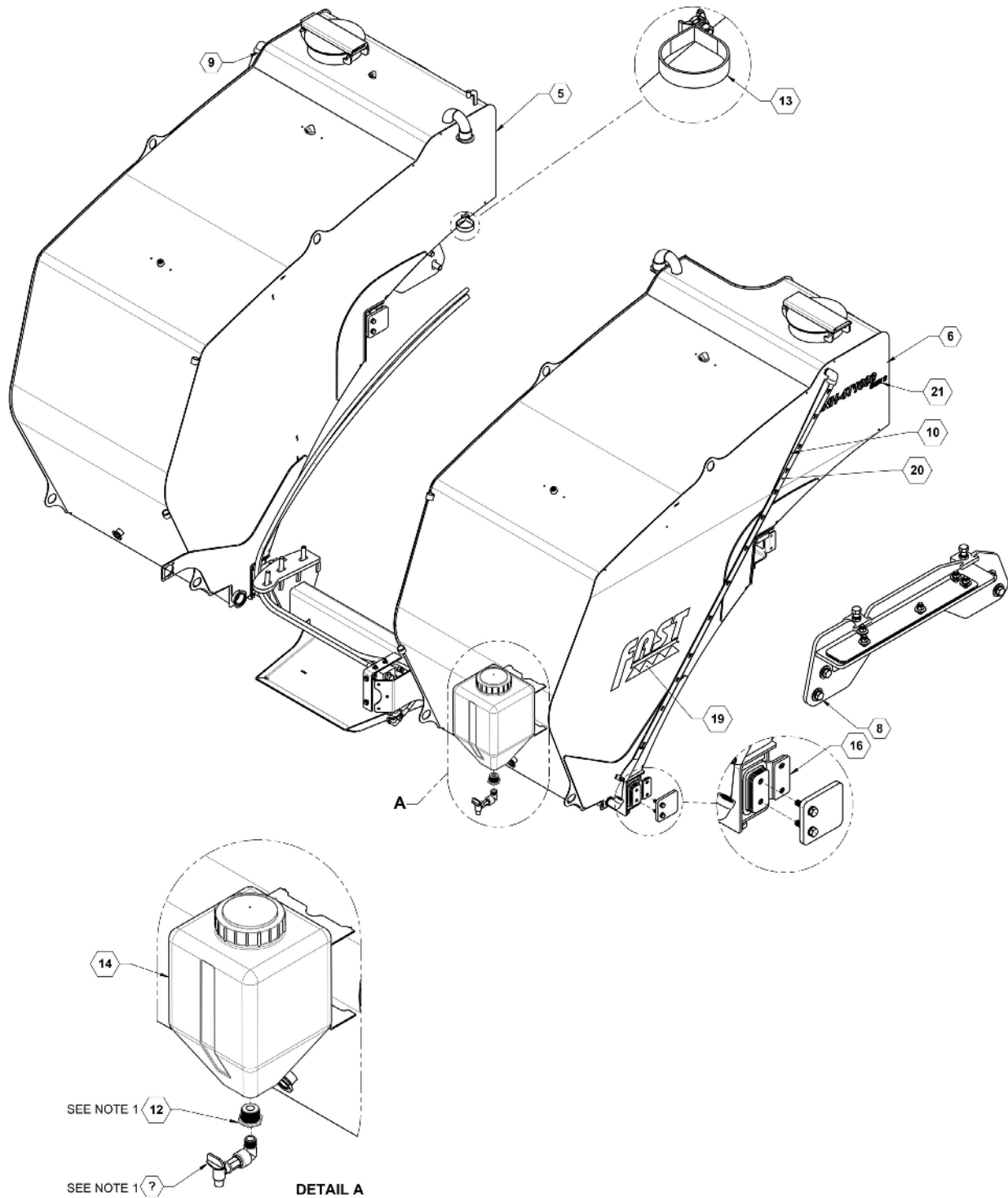




ILLUSTRATED PARTS LIST

Side Tanks Base Assembly

NOTES:
1. APPLY A SMALL AMOUNT OF
THREAD SEALANT TO THE EXTERNAL
THREADS BEFORE ASSEMBLY



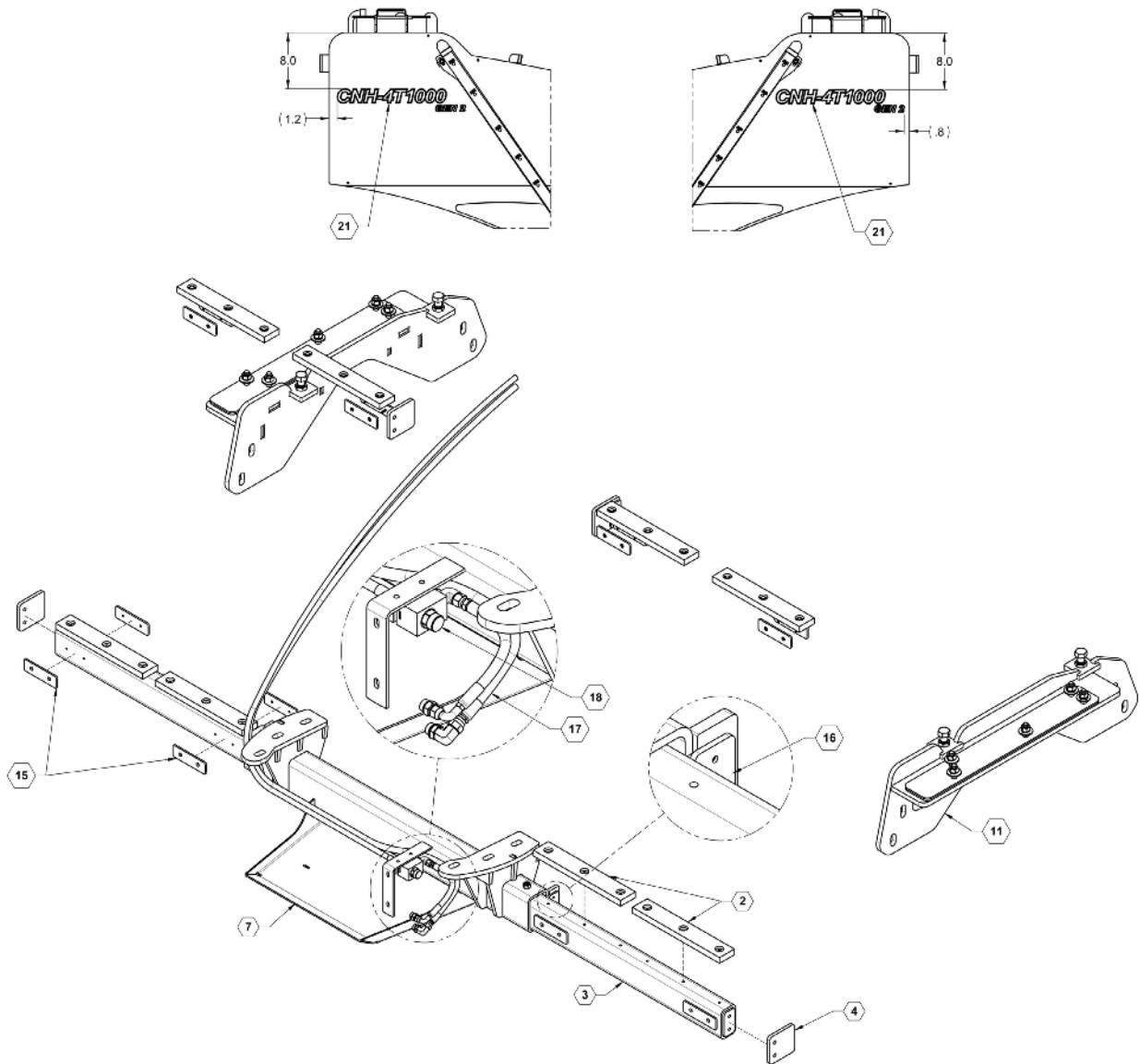


ILLUSTRATED PARTS LIST

Side Tanks Base Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	90SAFCHWF	1	FC HAND WASH FAUCET ASSEMBLY
5	25100	1	RH TANK
6	25101	1	LH TANK
8	27184	1	KIT, STANDARD HARDWARE CASE SIDE TANKS
9	27698	1	PLATE, DECAL LEVEL STRIP RH
10	27699	1	PLATE, DECAL LEVEL STRIP LH
12	530143	1	REDUCER, 1-1/4" MPT X 3/4" FPT
13	540052	2	P-CLAMP, 3" WITH 3/8" HOLE
14	570094	1	TANK, 5 GALLON, WHITE
16	590109	6	RUB PAD, SHORT
19	800181	2	FAST TANK LOGO
20	800248	2	DECAL, CASE ROWTRAC TANK LEVEL
21	800290	2	DECAL, TANK, CNH-5T1000 GEN2

Side Tanks Base Assembly





ILLUSTRATED PARTS LIST

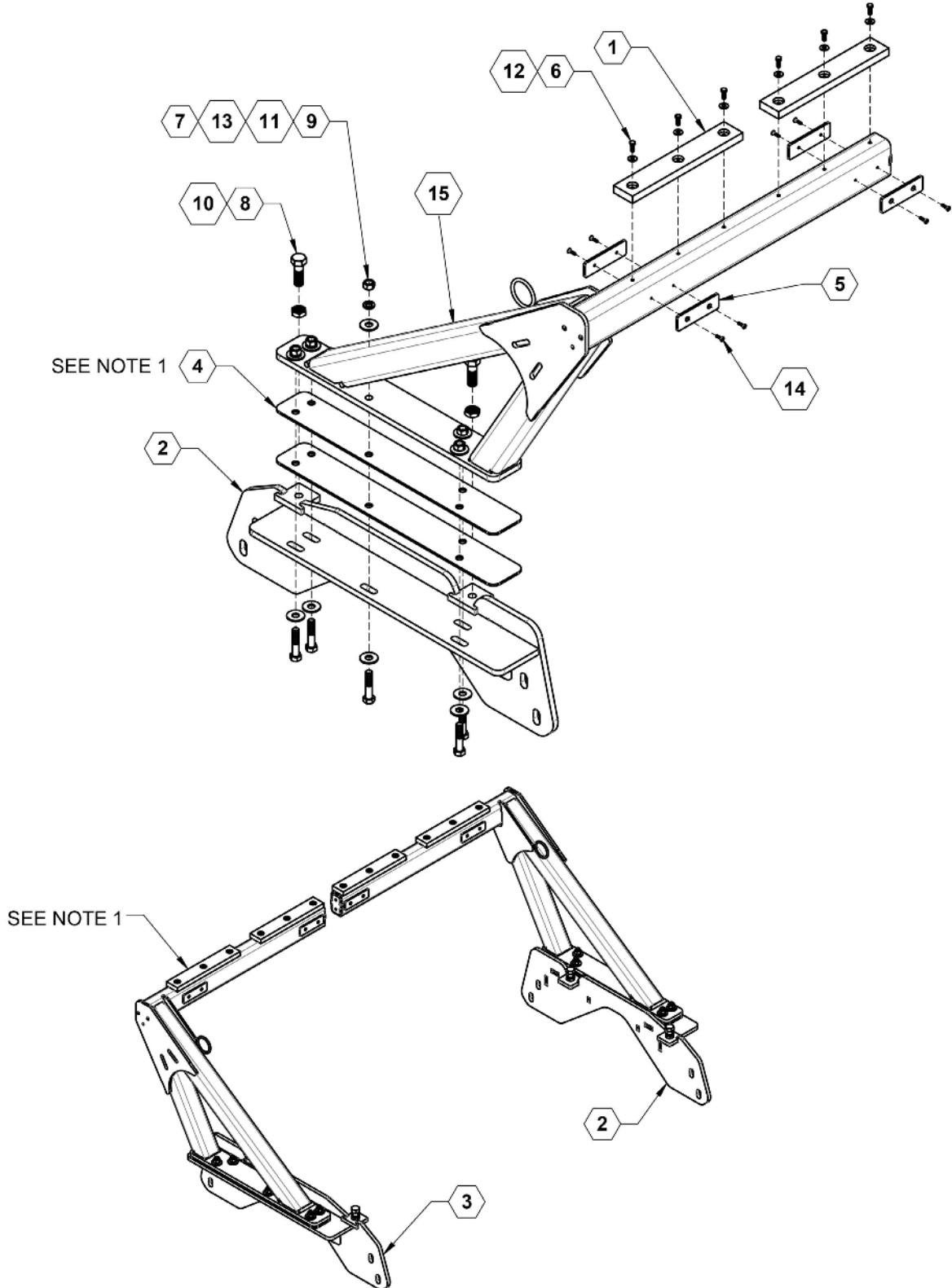
Side Tanks Base Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
2	23637	4	PAD, RUBBER
3	23686	1	CROSS TUBE
4	23689	4	PLATE, BOLT
7	25150	1	CASE RT TANK MOUNT
11*	27700	1	TANK MOUNT, RH ASSEMBLY
11*	27701	1	TANK MOUNT, LH ASSEMBLY
15	590024	8	PLASTIC TRANSPORT
16	590109	6	RUB PAD, SHORT
17	600108	1	CASE RIGHT SIDE TANK HYDRAULIC KIT
18	610099	1	VALVE, FLOW CONTROL, P.C.
18	FR12-20F-10T-N-I13.00	1	CARTRIDGE, FLOW CONTROL, P.C.
*			SEE SIDE TANK MOUNT ASSEMBLY PAGE
21	800290	2	DECAL, TANK, CNH-5T1000 GEN2

Side Tank Mount Assembly

NOTE:

- 1. SHIM AS NEEDED TO GET TANK RECEIVER



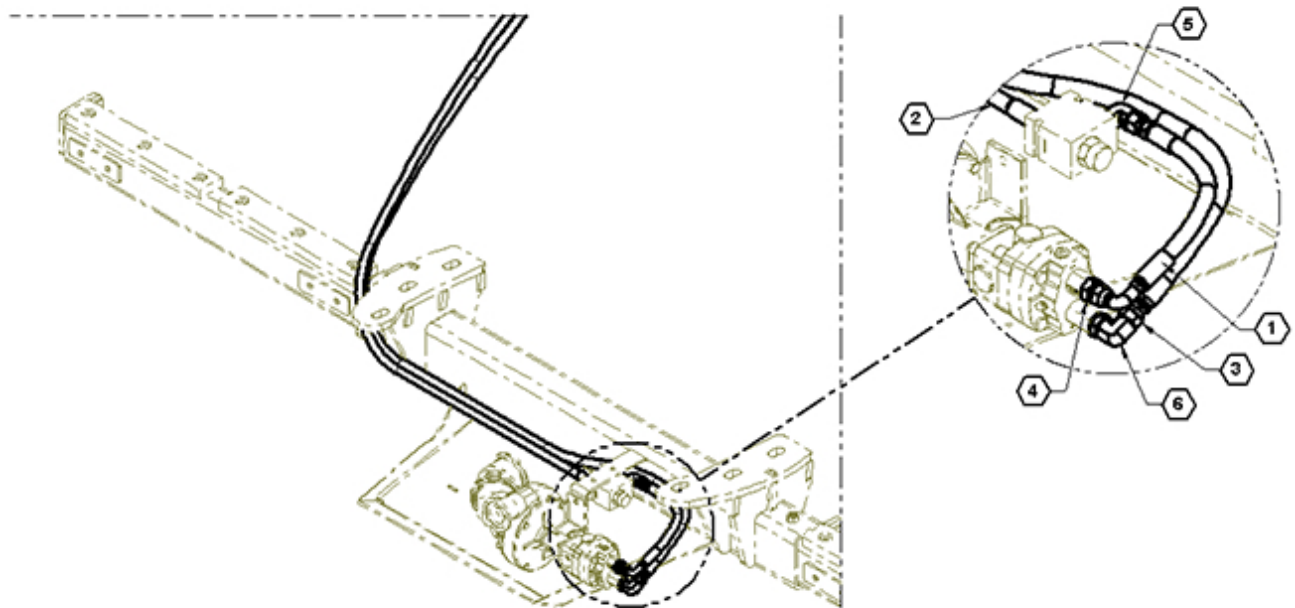


ILLUSTRATED PARTS LIST

Side Tank Mount Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	23637	4	PAD, RUBBER
2	27702	1	LOWER TANK MOUNT, RH
3	27703	1	LOWER TANK MOUNT, LH
4	27714	4	PLATE, SHIM
5	590024	8	PLASTIC TRANSPORT
6	596128M	12	BOLT, HH 3/8-16 X 1 GR5 MAGNI
7	596187M	10	BOLT, HH 3/4-10X3-1/2 GR5 MAGNI
8	596200M	4	BOLT, HEX 1-8X3-1/2 GR5 MAGNI
9	596217M	10	NUT, HEX 3/4-10 G5 MAGNI
10	596226M	4	NUT, HEX JAM 1-8 MAGNI
11	596254M	10	LOCKWASHER 3/4 MAGNI
12	596258M	12	WASHER, FLAT 3/8 MAGNI
13	596259M	20	WASHER, FLAT 3/4 MAGNI
14	596806M	16	FLAT HEAD 1/4-12X1 MAGNI
15	27972	1	UPPER TANK MOUNT, RH, 88" TRACK WIDTH
15	27973	1	UPPER TANK MOUNT, LH, 88" TRACK WIDTH
15	27704	1	UPPER TANK MOUNT, RH, 120" TRACK WIDTH
15	27705	1	UPPER TANK MOUNT, LH, 120" TRACK WIDTH
15	27974	1	UPPER TANK MOUNT, RH, 132" TRACK WIDTH
15	27975	1	UPPER TANK MOUNT, LH, 132" TRACK WIDTH

Side Tank Hydraulic Kit





ILLUSTRATED PARTS LIST

Side Tank Hydraulic Kit Parts List

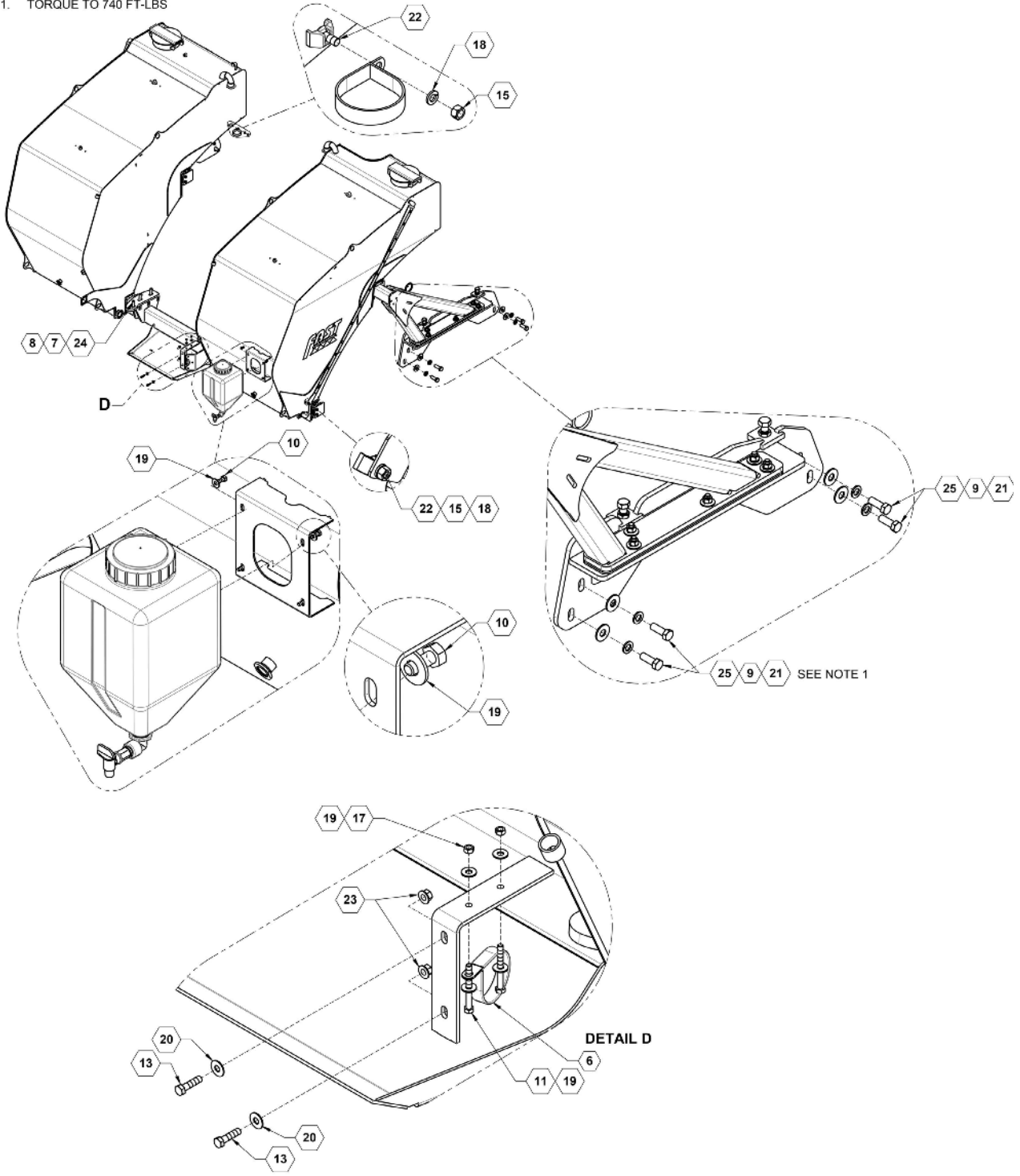
ITEM	PART NO.	QTY.	DESCRIPTION
1	600108-1-ZN	1	HOSE, 08-8FJX90-8FJX-16
2	600108-2-ZN	1	HOSE, 08-10MOR-8MOR-360
3	600108-2-ZN	1	HOSE, 10-10FLX-8MOR-384
4	610060	1	JIC #8 TO O-RING #10
5	610086	1	JIC #8 TO O-RING #10 ELBOW 90
6	610102	1	JIC #10 TO O-RING #10 ELBOW 90



ILLUSTRATED PARTS LIST

Standard Side Tanks Hardware

NOTES:
1. TORQUE TO 740 FT-LBS





ILLUSTRATED PARTS LIST

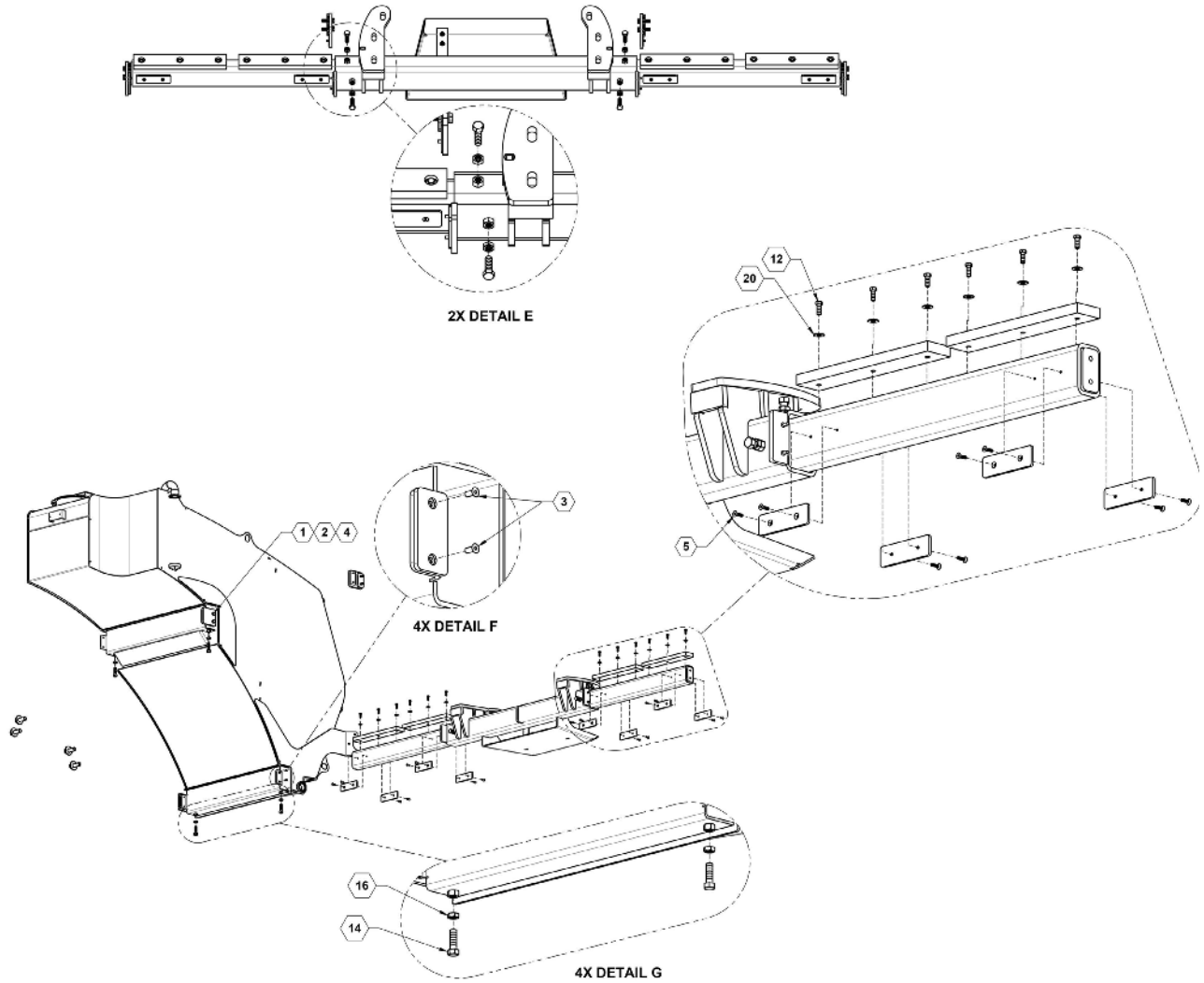
Standard Side Tanks Hardware Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
6	540052	1	P-CLAMP, 3" WITH 3/8" HOLE
7	590090	6	M20 NARROW FLAT WASHER
8	590151	6	20mm Washer
9	590807	8	LOCK WASHER 24MM
10	596114M	4	BOLT, HH 5/16-18X3/4 GR5 MAGNI
11	596119M	2	BOLT, HH 5/16-18X3 GR5 MAGNI
13	596129M	2	BOLT, HH 3/8-16X1-1/2 GR5 MAGNI
15	596213M	6	NUT, HEX 3/8-16 MAGNI
17	596236M	2	NUT, CENTERLOCK, 5/16-18 MAGNI
18	596250M	6	LOCKWASHER 3/8 MAGNI
19	596257M	8	WASHER, FLAT 5/16 USS MAGNI
20	596258M	14	WASHER, FLAT 3/8 MAGNI
21	596276M	8	WASHER, FLAT 1" MAGNI
22	596592M	6	BOLT, CARRIAGE 3/8-16 X 1 MAGNI
23	596769M	2	NUT, HEX FLANGE 3/8-16 MAGNI
24	596825M	6	BOLT, HH 10.9 M20 X 90MM MAGNI
25	596826M	8	BOLT, HH 24 X 75MM 10.9 MAGNI



ILLUSTRATED PARTS LIST

Standard Side Tanks Hardware





ILLUSTRATED PARTS LIST

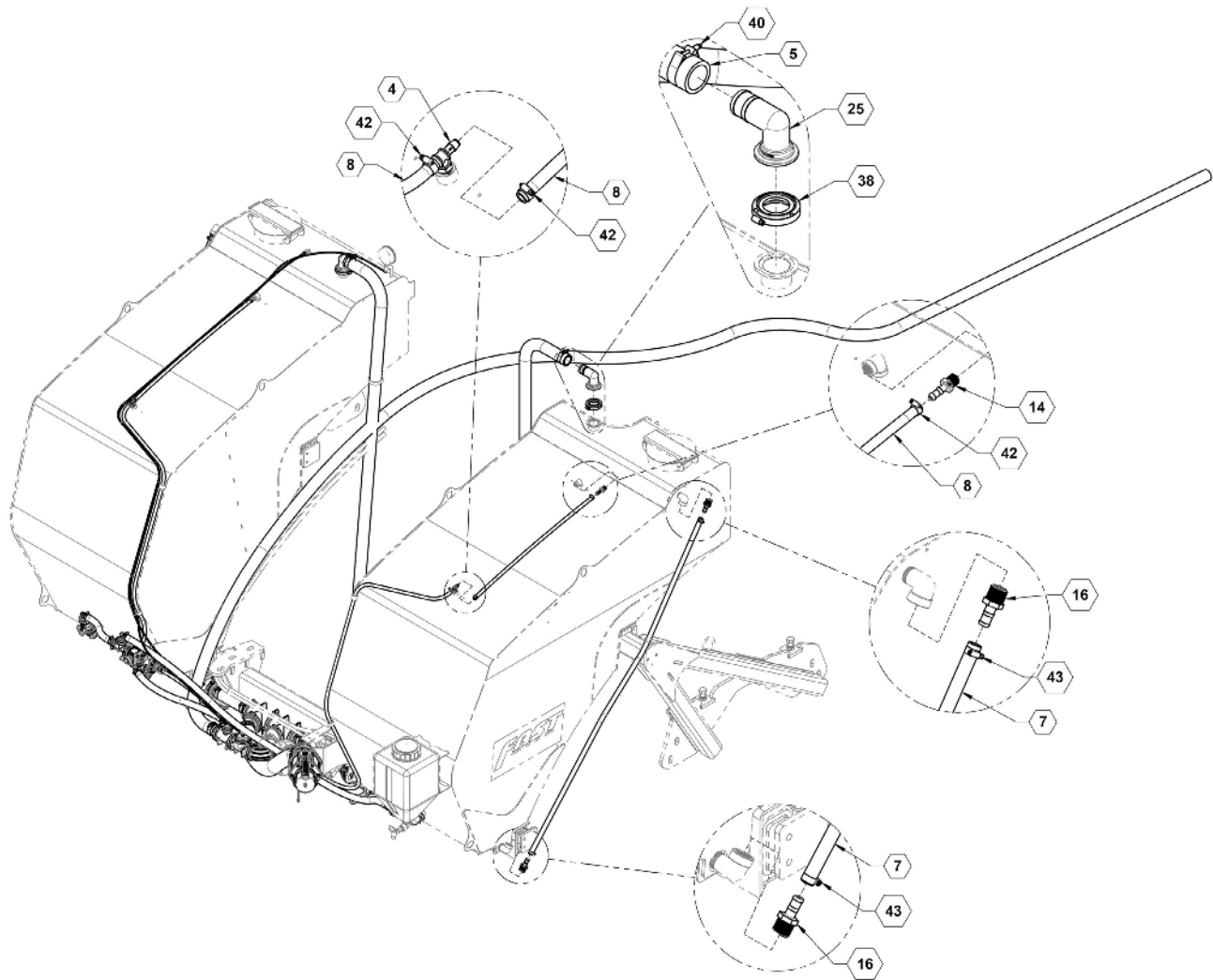
Standard Side Tanks Hardware Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	154	8	BOLT, HH 1/2-13 x 2
2	252	8	WASHER, LOCK, 1/2" ZP
3	581	11	RIVET, 1/4" DRIVE
4	23690	12	PLATE, SHIM
5	596806M	16	FLAT HEAD 1/4-12X1 MAGNI
12	596128M	12	BOLT, HH 3/8-16 X 1 GR5 MAGNI
14	596170M	12	BOLT, HH 5/8-11X2 GR5 MAGNI
16	596224M	12	NUT, HEX JAM 5/8-11 GR8 MAGNI
20	596258M	14	WASHER, FLAT 3/8 MAGNI



ILLUSTRATED PARTS LIST

Standard Plumbing Side Tank Assembly





ILLUSTRATED PARTS LIST

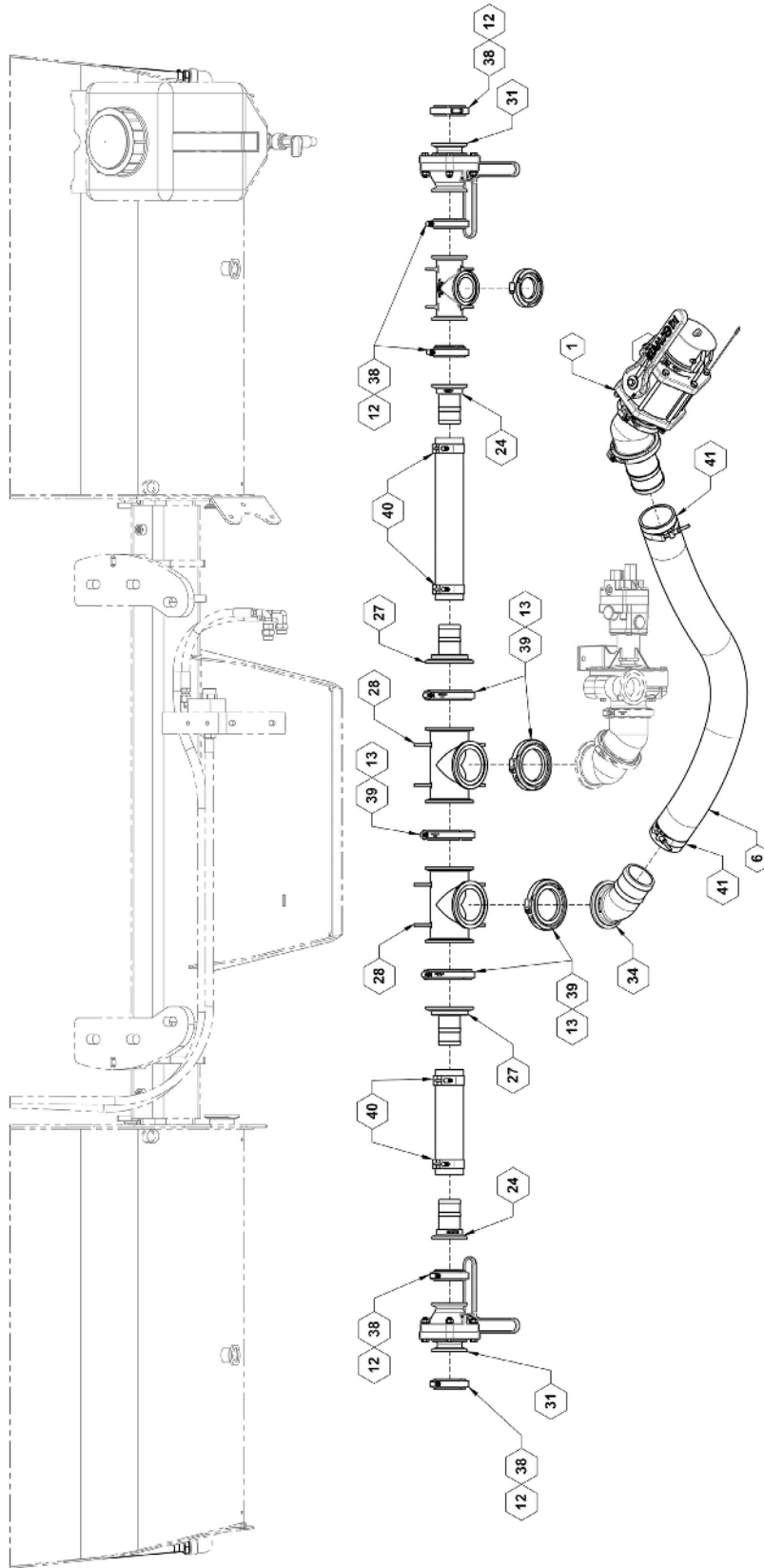
Standard Plumbing Side Tank Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
4	500065	2	1/2 T X 1/2 MPT
5	510003	5	HOSE 2" FERTILIZER - 40'
7	510006	2	HOSE VINYL CLEAR 3/4" - 15'
8	510012	4	HOSE 1/2" EPDM - 26'
14	530035	3	1/2 MPT 1/2" BARB
16	530043	4	HOSE BARB, 1" MALE THREAD X 3/4"
25	530104	2	FLANGE, 2" FULL PORT X 2" HOSE BARB 90
38	540002	13	CLAMP, WORM SCREW 2"
40	540007	7	CLAMP, HOSE 2" T-BOLT
42	540012	8	HOSE CLAMP, SS 1/2" #12
43	540013	4	CLAMP, HOSE SS 3/4" #12



ILLUSTRATED PARTS LIST

Standard Plumbing Side Tank Assembly



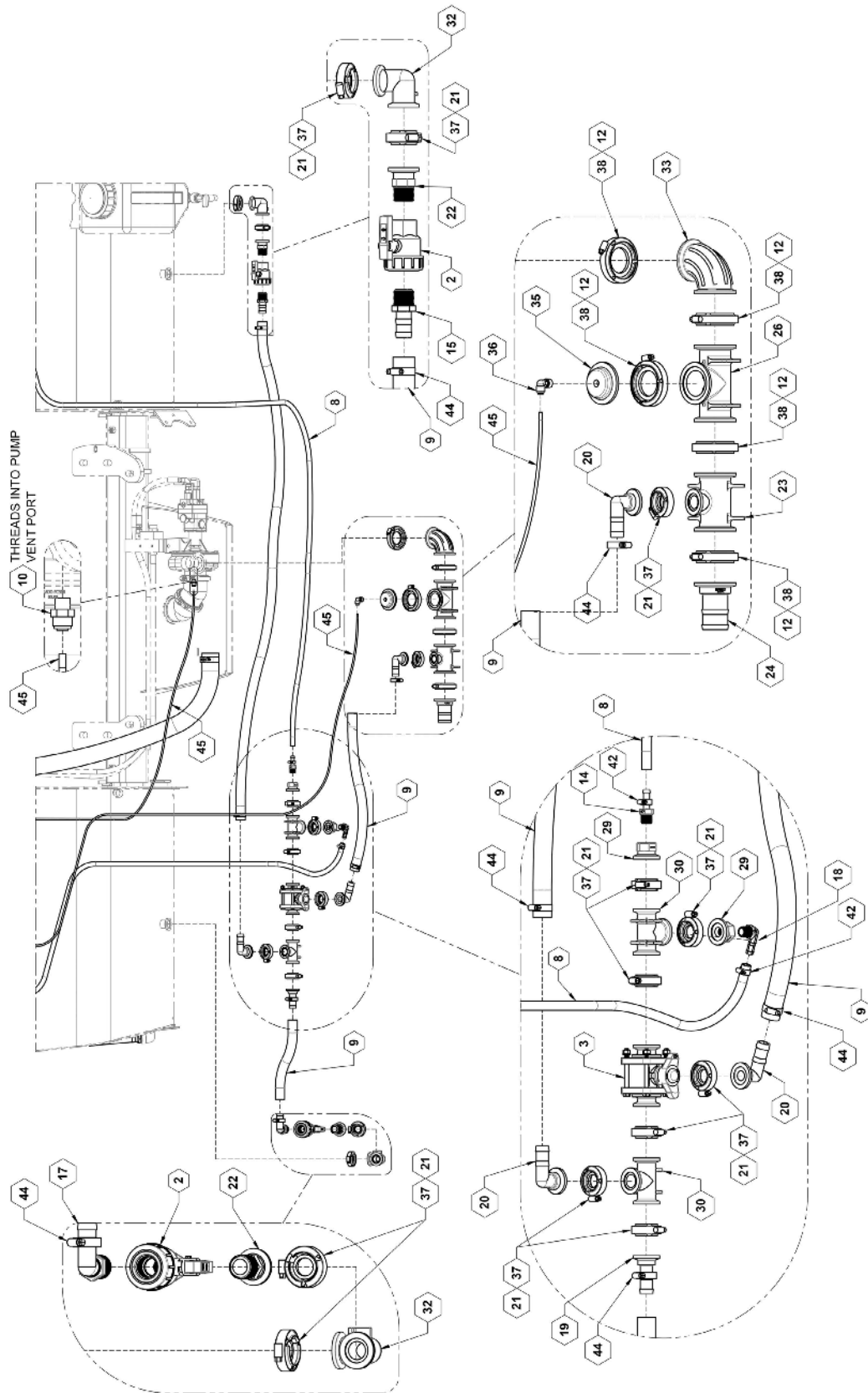


ILLUSTRATED PARTS LIST

Standard Plumbing Side Tank Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	90SA3QF45	1	3" QUICK FILL VALVE @ 45°
6	510004	1	HOSE 3 IN FERTILIZER - 4'
12	530019	13	GASKET, 2" EPDM
13	530024	5	GASKET, 3" EPDM
24	530103	3	MANIFOLD FLANGE 2" FULL PORT X 2" HOSE BARB
27	530111	2	MANIFOLD, 3" X 2" HOSE BARB
28	530115	2	MANIFOLD, 3" TEE
31	530327	2	MANIFOLD, VALVE, 2" FULL PORT STUBBY
34	530449	1	3" MANIFOLD TO HOSE BARB 45
38	540002	13	CLAMP, WORM SCREW 2"
39	540003	5	CLAMP, WORM SCREW 3"
40	540007	7	CLAMP, HOSE 2" T-BOLT
41	540009	2	CLAMP, 3" T BOLT

Standard Plumbing Side Tank Assembly





ILLUSTRATED PARTS LIST

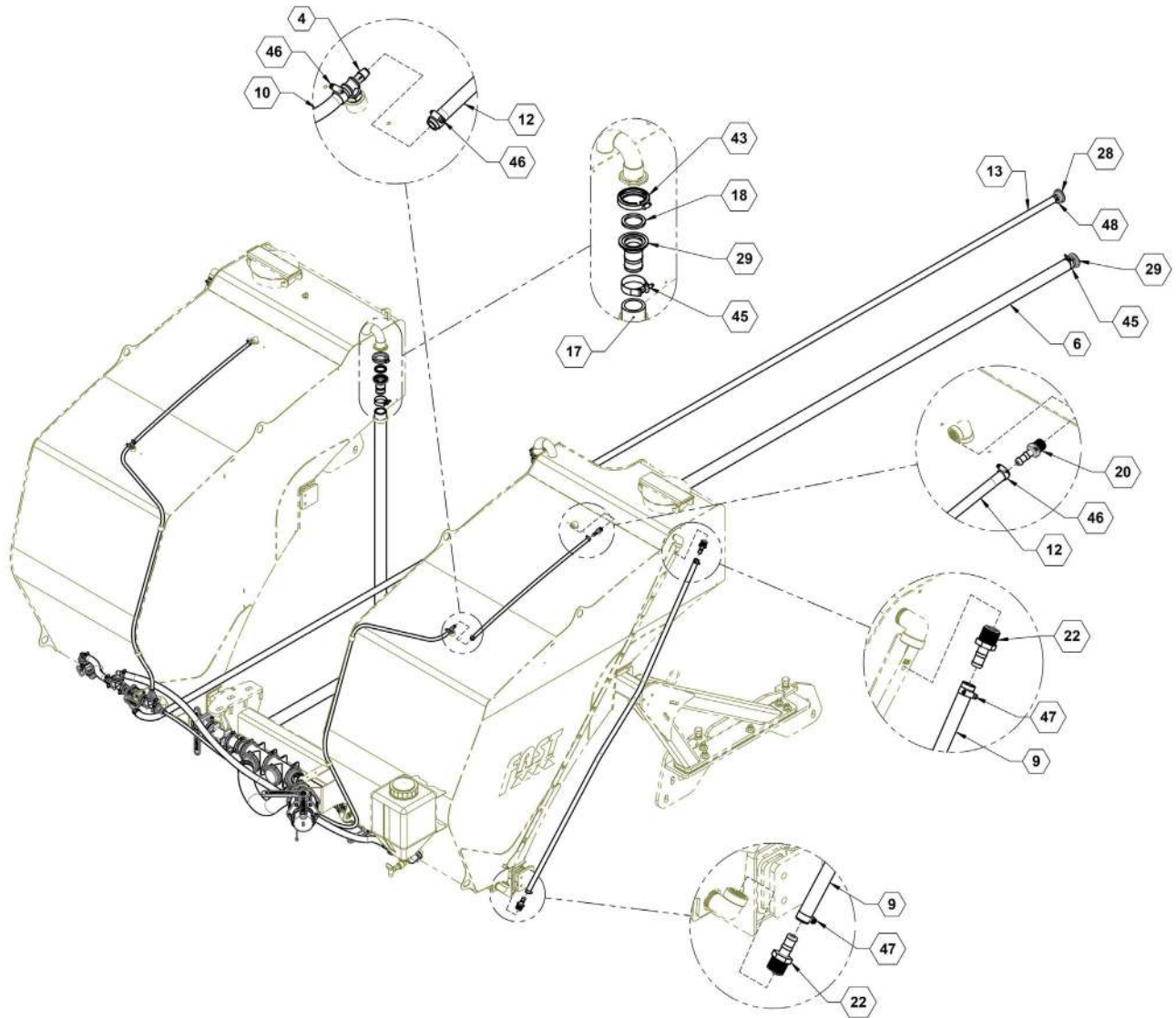
Standard Plumbing Side Tank Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
2	500009	2	Union Valve FPT 1 x 1"
3	500050	1	VALVE 1" SIDE LOAD 3-WAY
8	510012	4	HOSE 1/2" EPDM - 26'
9	510016	3	HOSE 1" EPDM - 11'
10	530001	2	MALE CONNECTOR, 1/4" X 1/4"
12	530019	13	GASKET, 2" EPDM
14	530035	3	1/2 MPT 1/2" BARB
15	530041	1	FITTING, 1"MPT X 1" HOSE BARB
17	530044	1	HOSE SHANK, 1" MPT X 1" 90°
18	530059	1	FITTING, MPT .5 X .5 INCH SHANK 90°
19	530066	1	MANIFOLD FITTING, 1" X 1" HOSE BARB
20	530067	3	FITTING, 1" MANIFOLD X 1" HOSE BARB 90°
21	530068	12	GASKET, 1" EPDM
22	530069	2	FLANGE, 1" MANIFOLD X 1" MPT
23	530099	1	MANIFOLD, 2" FP X 1" FLANGE TEE
24	530103	3	MANIFOLD FLANGE 2" FULL PORT X 2" HOSE BARB
26	530110	2	MANIFOLD TEE, 2"
29	530265	2	1" FLANGE X 1-2" PIPE THREAD
30	530298	2	MANIFOLD TEE, 1"
32	530362	2	Coupling 90° 1" Flanged
33	530386	1	MANIFOLD SWEEP, 2" FULL PORT FLANGE
35	530451	1	2" MANIFOLD PLUG WITH 3/8" PORT
36	530455	1	PUSH CONNECT 1/4 X 3/8" MPT
37	540000	12	CLAMP, WORM SCREW 1"
38	540002	13	CLAMP, WORM SCREW 2"
42	540012	8	HOSE CLAMP, SS 1/2" #12
44	540014	6	CLAMP, HOSE SS 1" #16
45	510027	2	HOSE 3/16" EPDM 156" LONG



ILLUSTRATED PARTS LIST

Standard Plumbing Without Pump Assembly



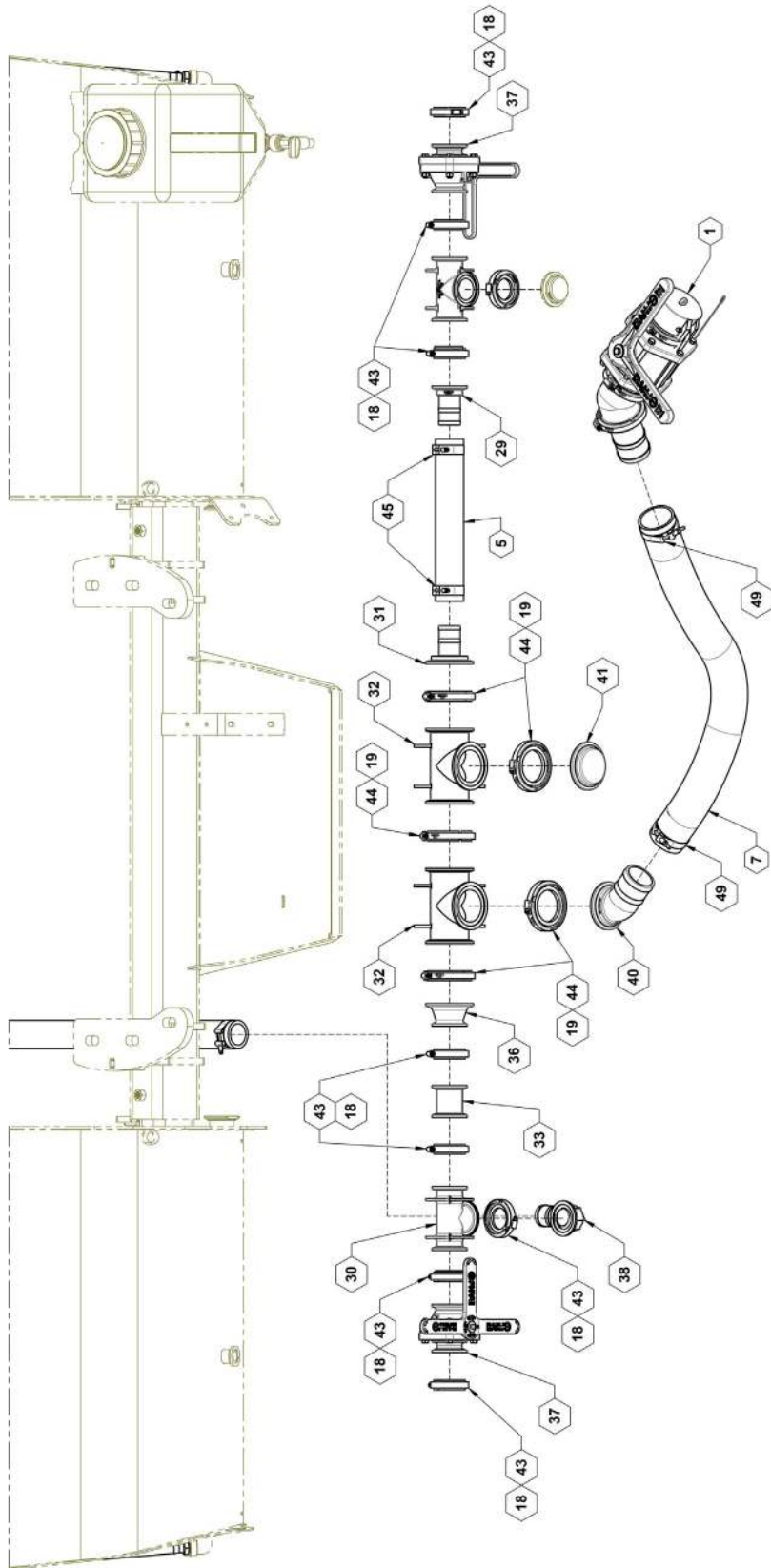


ILLUSTRATED PARTS LIST

Standard Plumbing Without Pump Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
4	500065	2	1/2 T X 1/2 MPT
6	510003	1	HOSE 2" FERTILIZER X 2'
9	510006	1	HOSE VINYL CLEAR 3/4" X 8' LONG
10	510012	1	HOSE 1/2" EPDM X 12'
12	510012	2	HOSE 1/2" EPDM X 4'
13	510016	1	HOSE 1" EPDM X 25'
17	510025	1	HOSE 2" CLEAR PVC SUCTION X 8'
18	530019	11	GASKET, 2" EPDM
20	530035	4	1/2 MPT 1/2" BARB
22	530043	4	HOSE BARB, 1" MALE THREAD X 3/4"
28	530072	1	FITTING, 2" FLANGE X 1" HOSE BARB
29	530103	4	MANIFOLD FLANGE 2" FULL PORT X 2" HOSE BARB
43	540002	11	CLAMP, WORM SCREW 2"
45	540007	6	CLAMP, HOSE 2" T-BOLT
46	540012	8	HOSE CLAMP, SS 1/2" #12
47	540013	4	CLAMP, HOSE SS 3/4" #12
48	540014	6	CLAMP, HOSE SS 1" #16

Standard Plumbing Without Pump Assembly



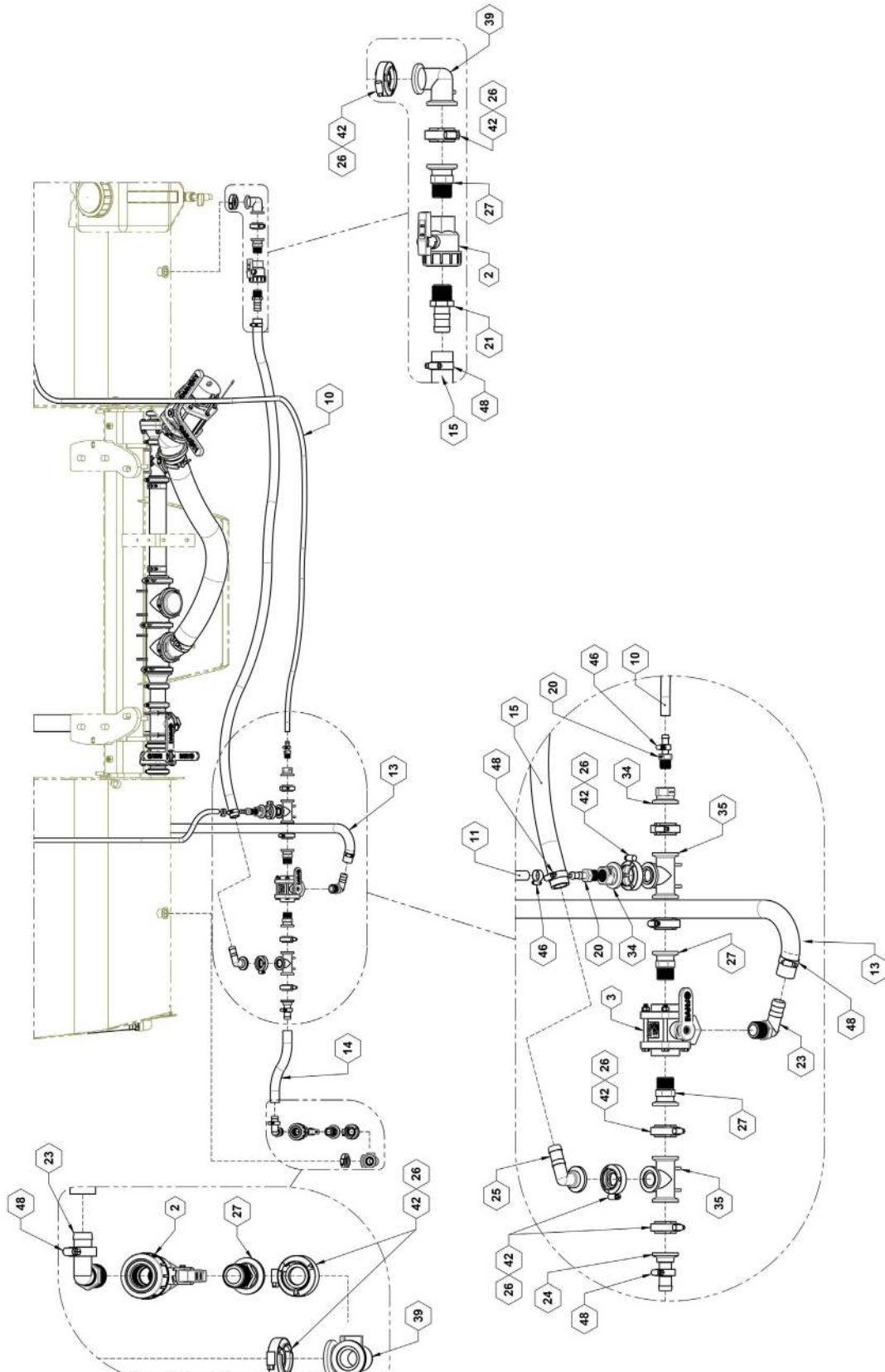


ILLUSTRATED PARTS LIST

Standard Plumbing Without Pump Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	90SA3QF45	1	3" QUICK FILL VALVE @ 45°
18	530019	11	GASKET, 2" EPDM
19	530024	5	GASKET, 3" EPDM
29	530103	4	MANIFOLD FLANGE 2" FULL PORT X 2" HOSE BARB
30	530110	2	MANIFOLD TEE, 2"
31	530111	1	MANIFOLD, 3" X 2" HOSE BARB
32	530115	2	MANIFOLD, 3" TEE
33	530244	1	FLANGE, 2" X 2" FULL PORT
36	530316	1	MANIFOLD REDUCER 3" X 2" COUPLER
37	530327	2	MANIFOLD, VALVE, 2" FULL PORT STUBBY
38	530334	1	2" FULL PORT PLANGE X HOSE SHANK SWEEP
40	530449	1	3" MANIFOLD TO HOSE BARB 45
41	530456	1	PLUG, 300
43	540002	11	CLAMP, WORM SCREW 2"
44	540003	5	CLAMP, WORM SCREW 3"
45	540007	6	CLAMP, HOSE 2" T-BOLT
49	540027	2	CLAMP, HOSE 3" T-BOLT

Standard Plumbing Without Pump Assembly



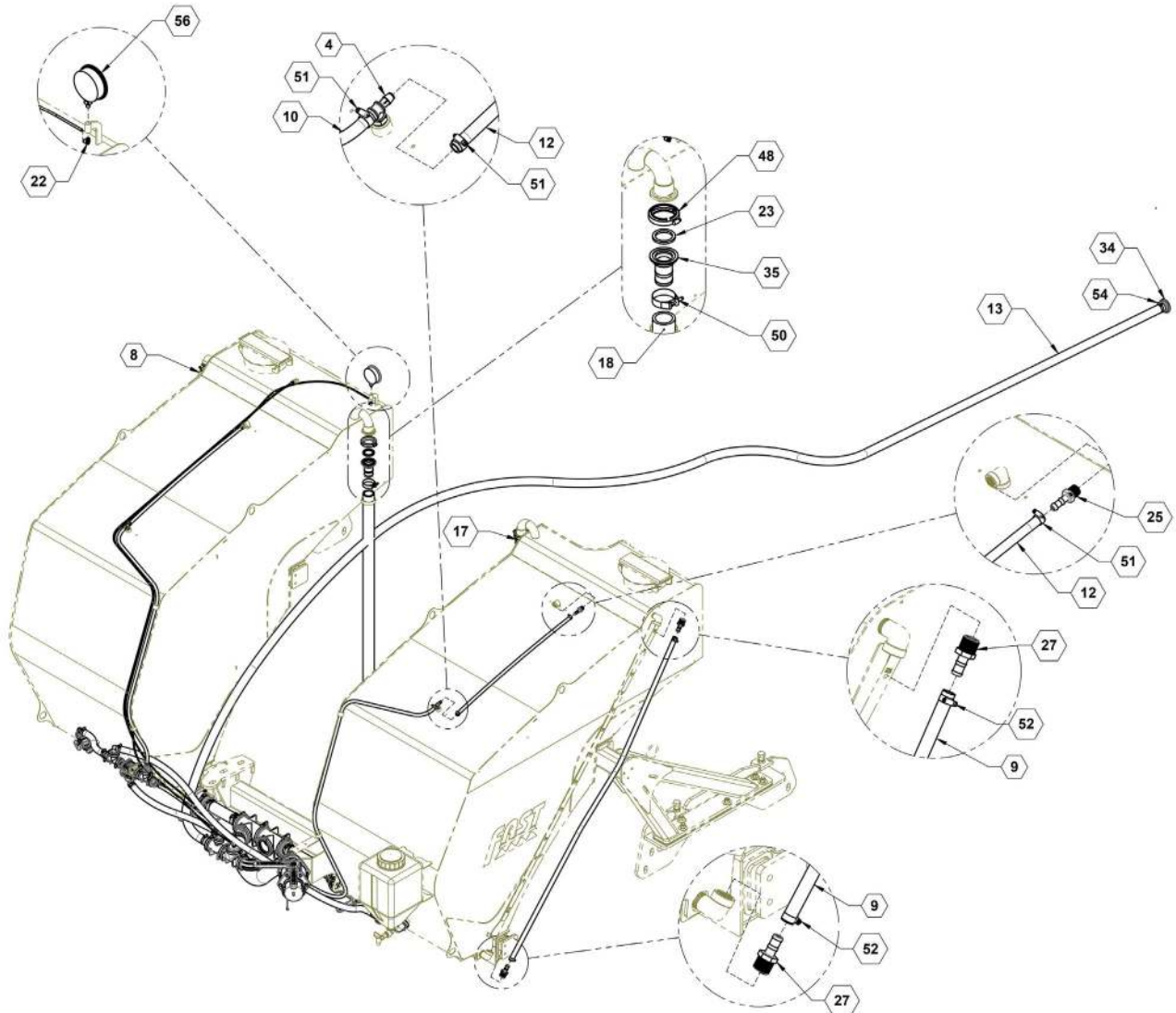


ILLUSTRATED PARTS LIST

Standard Plumbing Without Pump Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
2	500009	2	Union Valve FPT 1 x 1"
3	500050	1	VALVE 1" SIDE LOAD 3-WAY
10	510012	1	HOSE 1/2" EPDM X 12'
11	510012	1	HOSE 1/2" EPDM X 6'
12	510012	2	HOSE 1/2" EPDM X 4'
13	510016	1	HOSE 1" EPDM X 25'
14	510016	1	HOSE 1" EPDM X 2'
15	510016	1	HOSE 1" EPDM X 8'
20	530035	4	1/2 MPT 1/2" BARB
21	530041	1	FITTING, 1" MPT X 1" HOSE BARB
23	530044	2	HOSE SHANK, 1" MPT X 1" 90°
24	530066	1	MANIFOLD FITTING, 1" X 1" HOSE BARB
25	530067	1	FITTING, 1" MANIFOLD X 1" HOSE BARB 90°
26	530068	10	GASKET, 1" EPDM
27	530069	4	FLANGE, 1" MANIFOLD X 1" MPT
34	530265	2	1" FLANGE X 1-2" PIPE TH
35	530298	2	MANIFOLD TEE, 1"
39	530362	2	Coupling 90° 1" Flanged
42	540000	10	CLAMP, WORM SCREW 1"
46	540012	8	HOSE CLAMP, SS 1/2" #12
48	540014	6	CLAMP, HOSE SS 1" #16

Standard Plumbing With Pump Assembly





ILLUSTRATED PARTS LIST

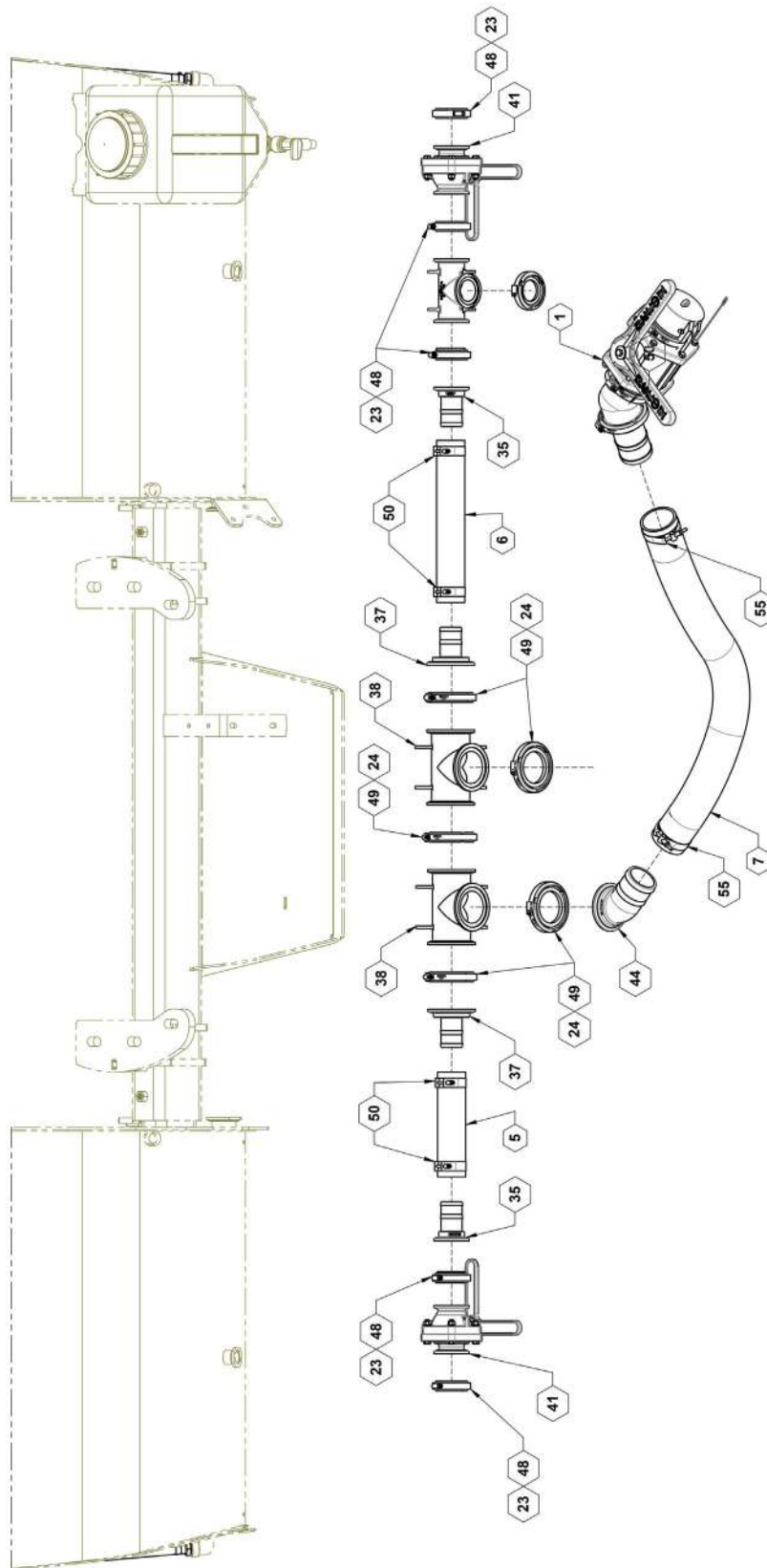
Standard Plumbing With Pump Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
4	500065	2	1/2 T X 1/2 MPT
8	510006	1	HOSE VINYL CLEAR 3/4" X 8' LONG
9	510006	1	HOSE VINYL CLEAR 3/4" X 8' LONG
10	510012	1	HOSE 1/2" EPDM X 12'
12	510012	2	HOSE 1/2" EPDM X 4'
13	510014	1	HOSE 1-1/2" FERTILIZER - 27'
17	510025	1	HOSE 2" CLEAR PVC SUCTION X 8'
18	510025	1	HOSE 2" CLEAR PVC SUCTION X 8'
22	530004	1	CONNECTOR, 90° 1/4" TUBE X 1/4" NPT
23	530019	13	GASKET, 2" EPDM
25	530035	4	1/2 MPT 1/2" BARB
27	530043	4	HOSE BARB, 1" MALE THREAD X 3/4"
34	530100	2	MANIFOLD FLANGE, 2" FULL PORT X 1-1/2" HOSE BARB
35	530103	4	MANIFOLD FLANGE 2" FULL PORT X 2" HOSE BARB
48	540002	13	CLAMP, WORM SCREW 2"
50	540007	6	CLAMP, HOSE 2" T-BOLT
51	540012	8	HOSE CLAMP, SS 1/2" #12
52	540013	4	CLAMP, HOSE SS 3/4" #12
54	540016	2	CLAMP, 1-1/2" SS
56	790020	1	GAUGE, FAST LOGO 160PSI



ILLUSTRATED PARTS LIST

Standard Plumbing With Pump Assembly



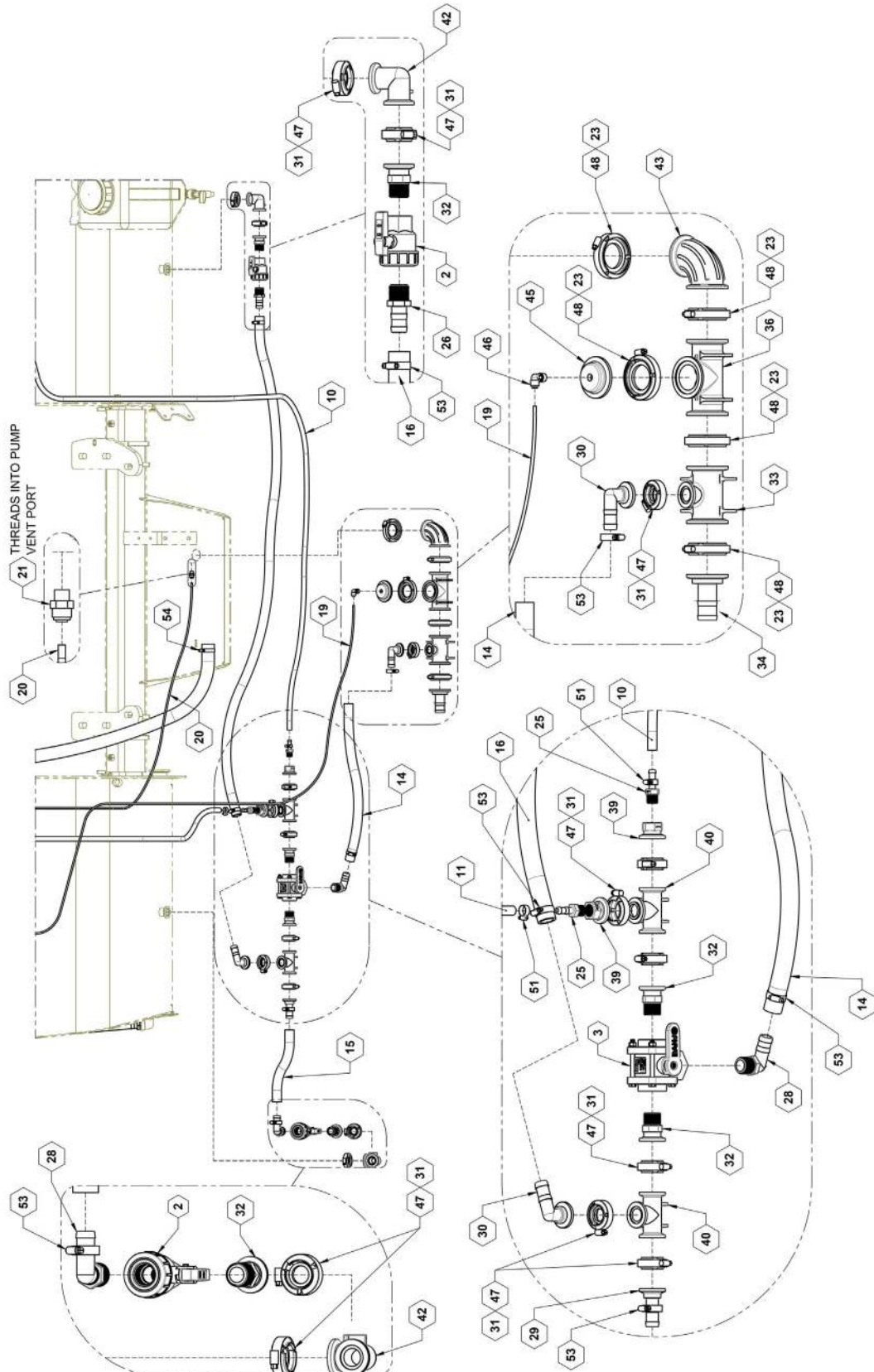


ILLUSTRATED PARTS LIST

Standard Plumbing With Pump Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	90SA3QF45	1	3" QUICK FILL VALVE @ 45°
5	510003	1	HOSE 2" FERTILIZER X 1'
6	510003	1	HOSE 2" FERTILIZER X 2'
7	510004	1	HOSE 3" FERTILIZER X 4'
23	530019	13	GASKET, 2" EPDM
24	530024	5	GASKET, 3" EPDM
35	530103	4	MANIFOLD FLANGE 2" FULL PORT X 2" HOSE BARB
37	530111	2	MANIFOLD, 3" X 2" HOSE BARB
38	530115	2	MANIFOLD, 3" TEE
41	530327	2	MANIFOLD, VALVE, 2" FULL PORT STUBBY
44	530449	1	3" MANIFOLD TO HOSE BARB 45
48	540002	13	CLAMP, WORM SCREW 2"
49	540003	5	CLAMP, WORM SCREW 3"
50	540007	6	CLAMP, HOSE 2" T-BOLT
55	540027	2	CLAMP, HOSE 3" T-BOLT

Standard Plumbing With Pump Assembly



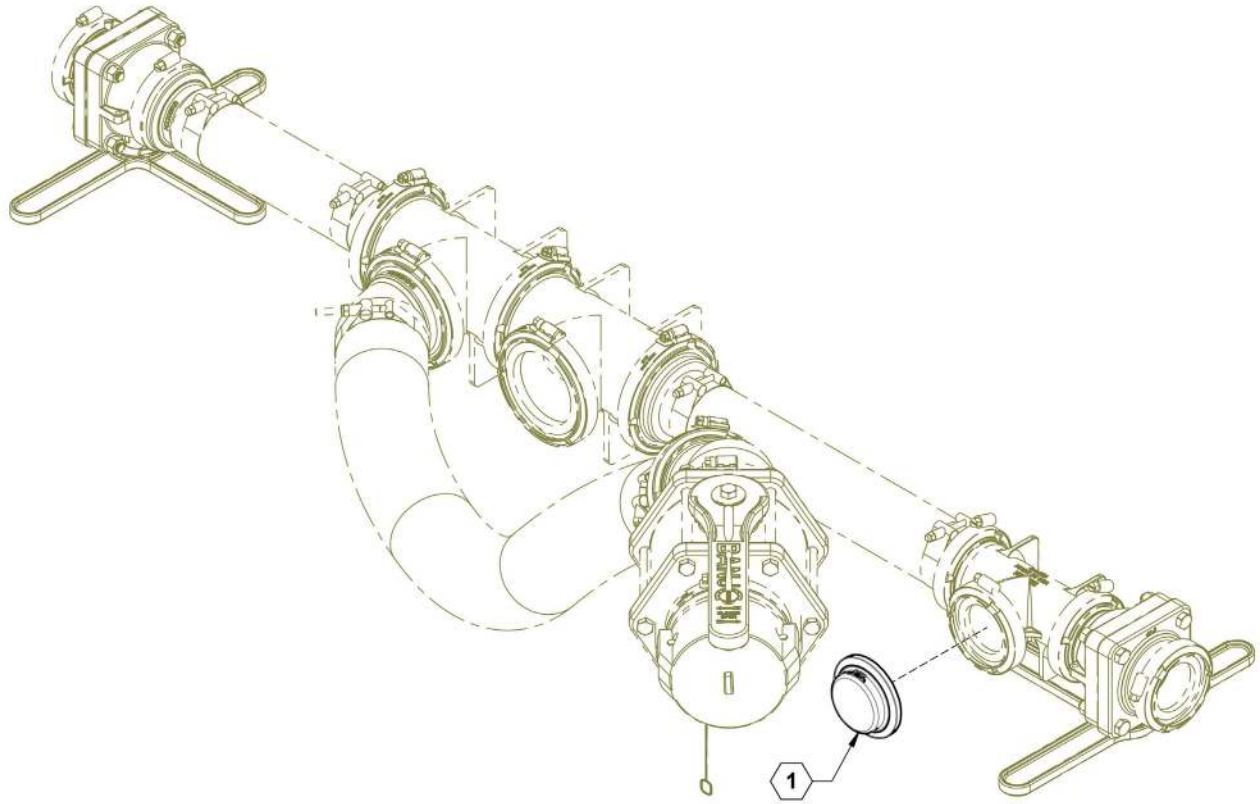


ILLUSTRATED PARTS LIST

Standard Plumbing With Pump Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
2	500009	2	Union Valve FPT 1 x 1"
3	500050	1	VALVE 1" SIDE LOAD 3-WAY
10	510012	1	HOSE 1/2" EPDM X 12'
11	510012	1	HOSE 1/2" EPDM X 6'
14	510016	1	HOSE 1" EPDM X 3'
15	510016	1	HOSE 1" EPDM X 2'
16	510016	1	HOSE 1" EPDM X 8'
19	510027	1	HOSE 3/16" EPDM X 15' LONG
20	510027	1	HOSE 3/16" EPDM X 14' LONG
21	530001	2	MALE CONNECTOR, 1/4" X 1/4"
23	530019	13	GASKET, 2" EPDM
25	530035	4	1/2 MPT 1/2" BARB
26	530041	1	FITTING, 1" MPT X 1" HOSE BARB
28	530044	2	HOSE SHANK, 1" MPT X 1" 90°
29	530066	1	MANIFOLD FITTING, 1" X 1" HOSE BARB
30	530067	2	FITTING, 1" MANIFOLD X 1" HOSE BARB 90°
31	530068	11	GASKET, 1" EPDM
32	530069	4	FLANGE, 1" MANIFOLD X 1" MPT
33	530099	1	MANIFOLD, 2" FP X 1" FLANGE TEE
34	530100	2	MANIFOLD FLANGE, 2" FULL PORT X 1-1/2" HOSE BARB
36	530110	2	MANIFOLD TEE, 2"
39	530265	2	1INCH FLANGE X 1-2" PIPE THREAD
40	530298	2	MANIFOLD TEE, 1"
42	530362	2	Coupling 90° 1" Flanged
43	530386	1	MANIFOLD SWEEP, 2" FULL PORT FLANGE
45	530451	1	2" MANIFOLD PLUG WITH 3/8" PORT
46	530455	1	PUSH CONNECT 1/4 X 3/8" MPT
47	540000	11	CLAMP, WORM SCREW 1"
48	540002	13	CLAMP, WORM SCREW 2"
51	540012	8	HOSE CLAMP, SS 1/2" #12
53	540014	6	CLAMP, HOSE SS 1" #16
54	540016	2	CLAMP, 1-1/2" SS

No Rear Tank Product Plumbing Cap



No Rear Tank Product Plumbing Cap Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	530109	1	2" FULL PORT FLANGE CAP



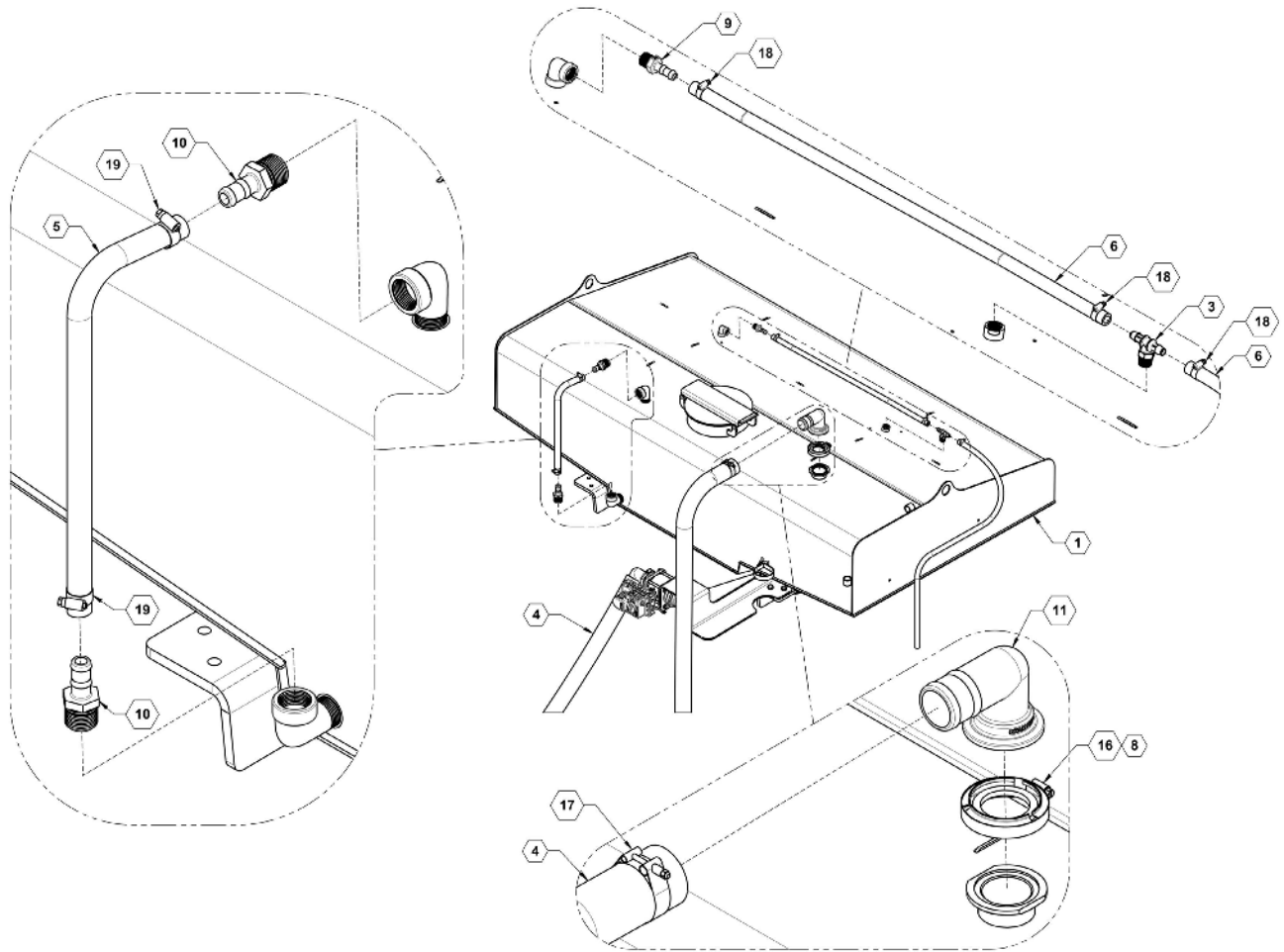
ILLUSTRATED PARTS LIST





ILLUSTRATED PARTS LIST

Rear Tank Product Plumbing





ILLUSTRATED PARTS LIST

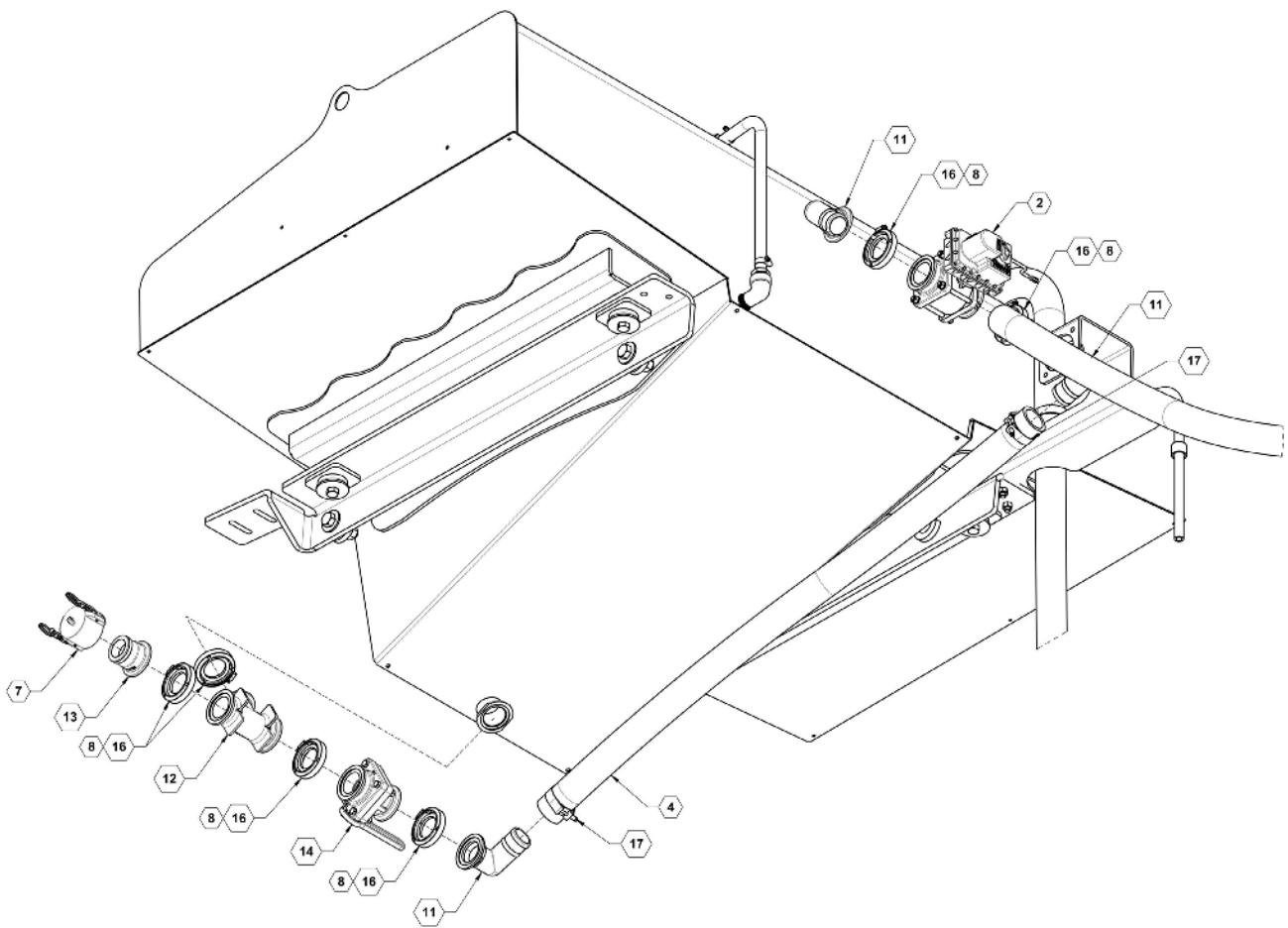
Rear Tank Product Plumbing Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	27199	1	ASSEMBLY, REAR TANK HARDWARE
3	500065	1	1/2 T X 1/2 MPT
4	510003	1	HOSE 2.00 ID 35'
5	510006	1	HOSE CLEAR VINYL 3/4" - 2'
6	510012	1	HOSE EPDM 1/2" EPDM - 8'
8	530019	7	GASKET, 2" EPDM
9	530035	1	1/2 MPT 1/2" BARB
10	530043	2	HOSE BARB, 1" MALE THREAD X 3/4"
11	530104	4	FLANGE, 2" FP X 2" HB 90
16	540002	7	CLAMP, WORM SCREW 2"
17	540007	4	CLAMP, HOSE 2" T-BOLT
18	540012	3	HOSE CLAMP, SS 1/2" #12
19	540013	2	CLAMP, HOSE SS 3/4" #12



ILLUSTRATED PARTS LIST

Rear Tank Product Plumbing



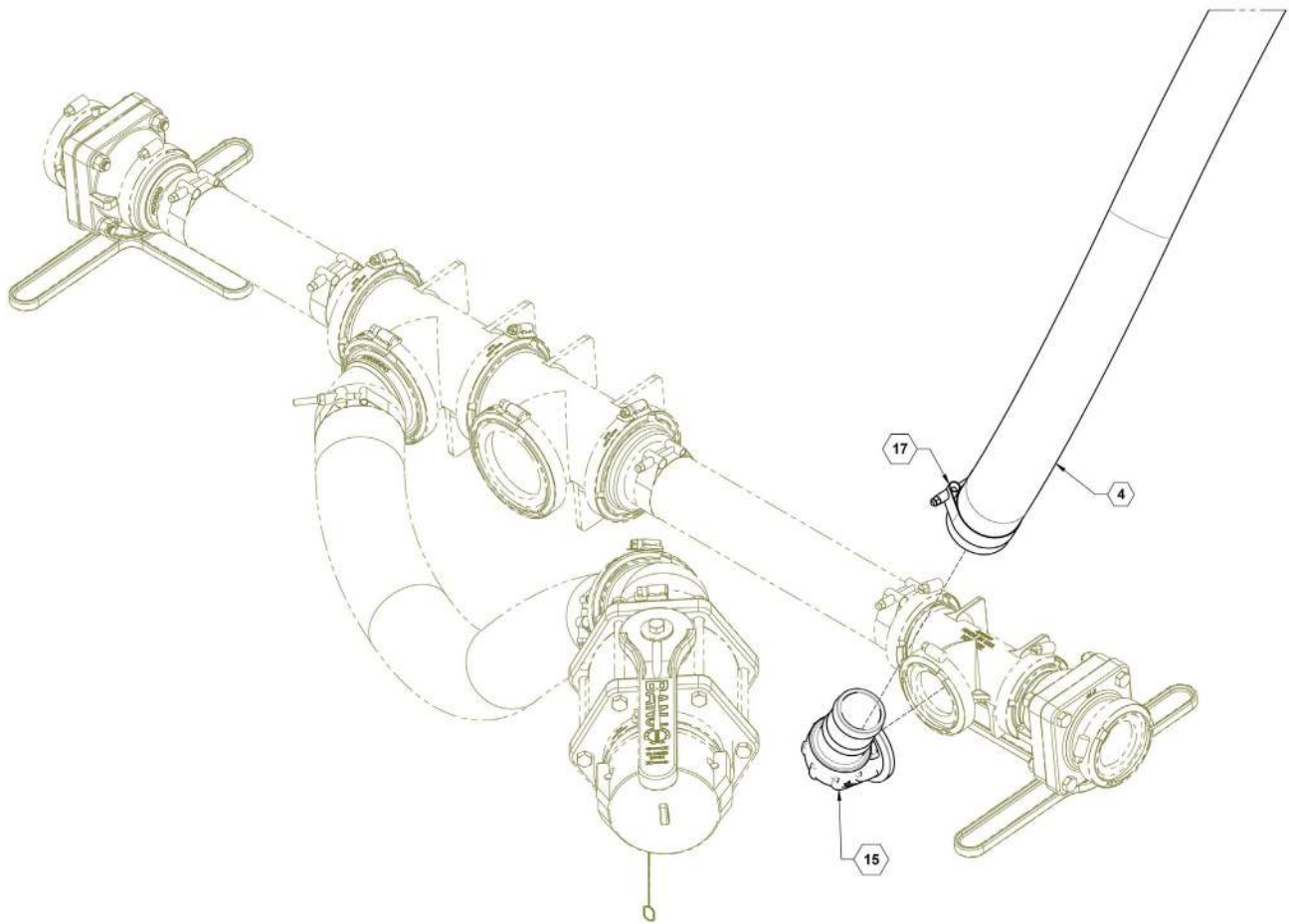


ILLUSTRATED PARTS LIST

Rear Tank Product Plumbing Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
2	500032	1	VALVE, 2" FP MANIFOLD ELECTRIC SIDE LOAD
7	530017	1	2" QUICK FILL CAP
8	530019	7	GASKET, 2" EPDM
11	530104	4	FLANGE, 2" FP X 2" HB 90
12	530110	1	MANIFOLD TEE, 2"
13	530271	1	2 x 2" Adapter QDC Male
14	530327	1	MANIFOLD, VALVE, 2" FP STUBBY
16	540002	7	CLAMP, WORM SCREW 2"
17	540007	4	CLAMP, HOSE 2" T-BOLT

Rear Tank Product Plumbing



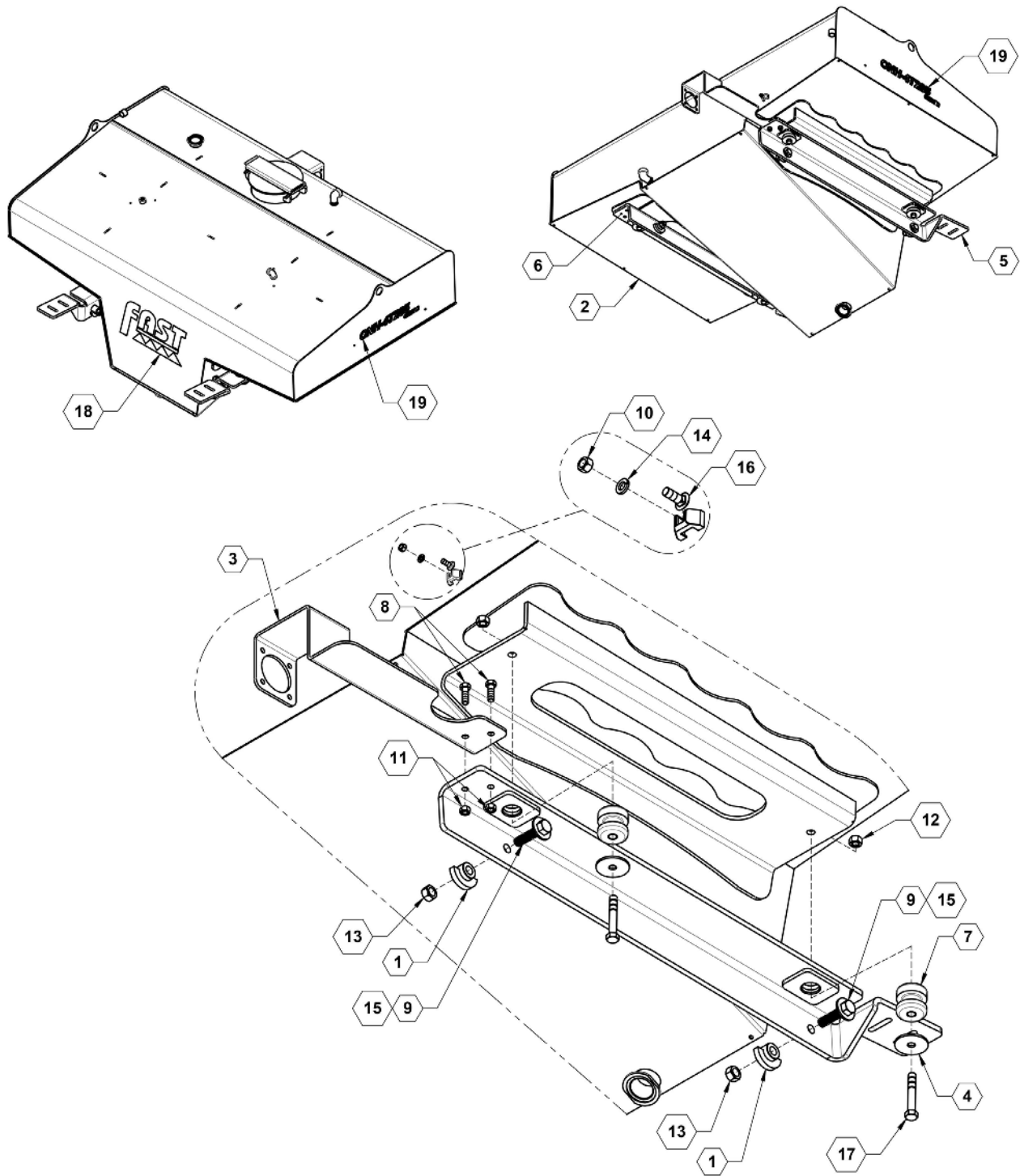


ILLUSTRATED PARTS LIST

Rear Tank Product Plumbing Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
4	510003	1	HOSE 2.00 ID 35'
15	530334	1	2" FULL PORT PLANGE X HOSE SHANK SWEEP
17	540007	4	CLAMP, HOSE 2" T-BOLT

Rear Tank Hardware



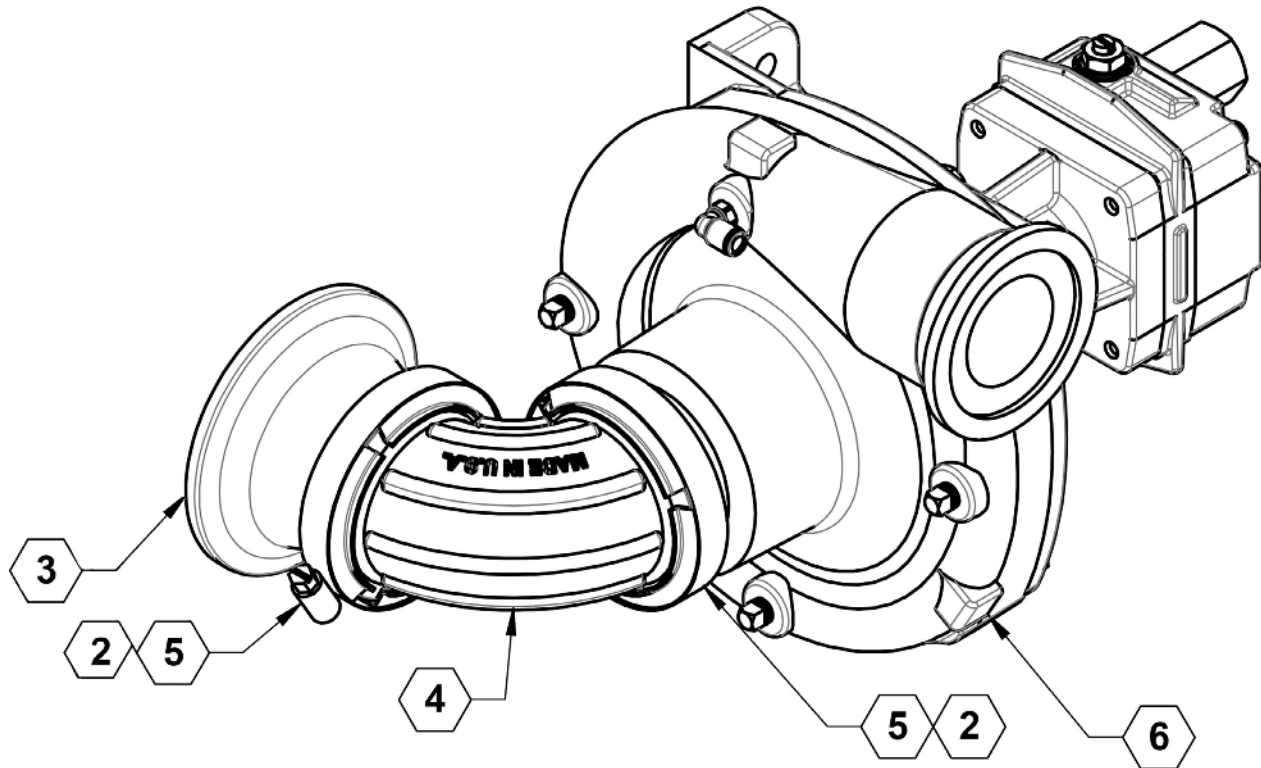


ILLUSTRATED PARTS LIST

Rear Tank Hardware Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	23796	4	PIN, MOUNT, WING REST
2	25175	1	REAR TANK
3	25185	1	TANK VALVE MOUNT BRACKET
4	26294	4	SNUBBING WASHER
5	26297	1	REAR TANK MOUNT LH
6	26298	1	REAR TANK MOUNT RH
7	590322	4	ISOLATOR (22003-14)
8	596153M	2	BOLT, HH 1/2-13X1-1/2 GR5 MAGNI
9	596186M	4	BOLT, HH 3/4-10 FT X 3 GR8 MAGNI
10	596213M	1	NUT, HEX 3/8-16 MAGNI
11	596215M	2	NUT, HEX 1/2 NC GR5 MAGNI
12	596216M	4	NUT, HEX 5/8-11 MAGNI
13	596217M	4	NUT, HEX 3/4-10 G5 MAGNI
14	596250M	1	LOCKWASHER 3/8 MAGNI
15	596259M	4	WASHER, FLAT 3/4 MAGNI
16	596592M	1	BOLT, CARRIAGE 3/8-16 X 1 MAGNI
17	596800M	4	BOLT, HH 5/8-11 X 4 GR8 MAGNI
18	800181	1	FAST TANK LOGO
19	800289	2	DECAL, TANK CNH-4T285 GEN 2

HYPRO 930C-HM1C Pump Assembly



HYPRO 930C-HM1C Pump Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	530004	1	CONNECTOR, 90° 1/4" TUBE X 1/4" NPT
2	530019	2	GASKET, 2" EPDM
3	530316	1	MANIFOLD REDUCER 3" X 2" COUPLER
4	530386	1	MANIFOLD SWEEP, 2" FULL PORT FLANGE
5	540002	2	CLAMP, WORM SCREW 2"
6	550011	1	PUMP, HYPRO 9306C-HM1C



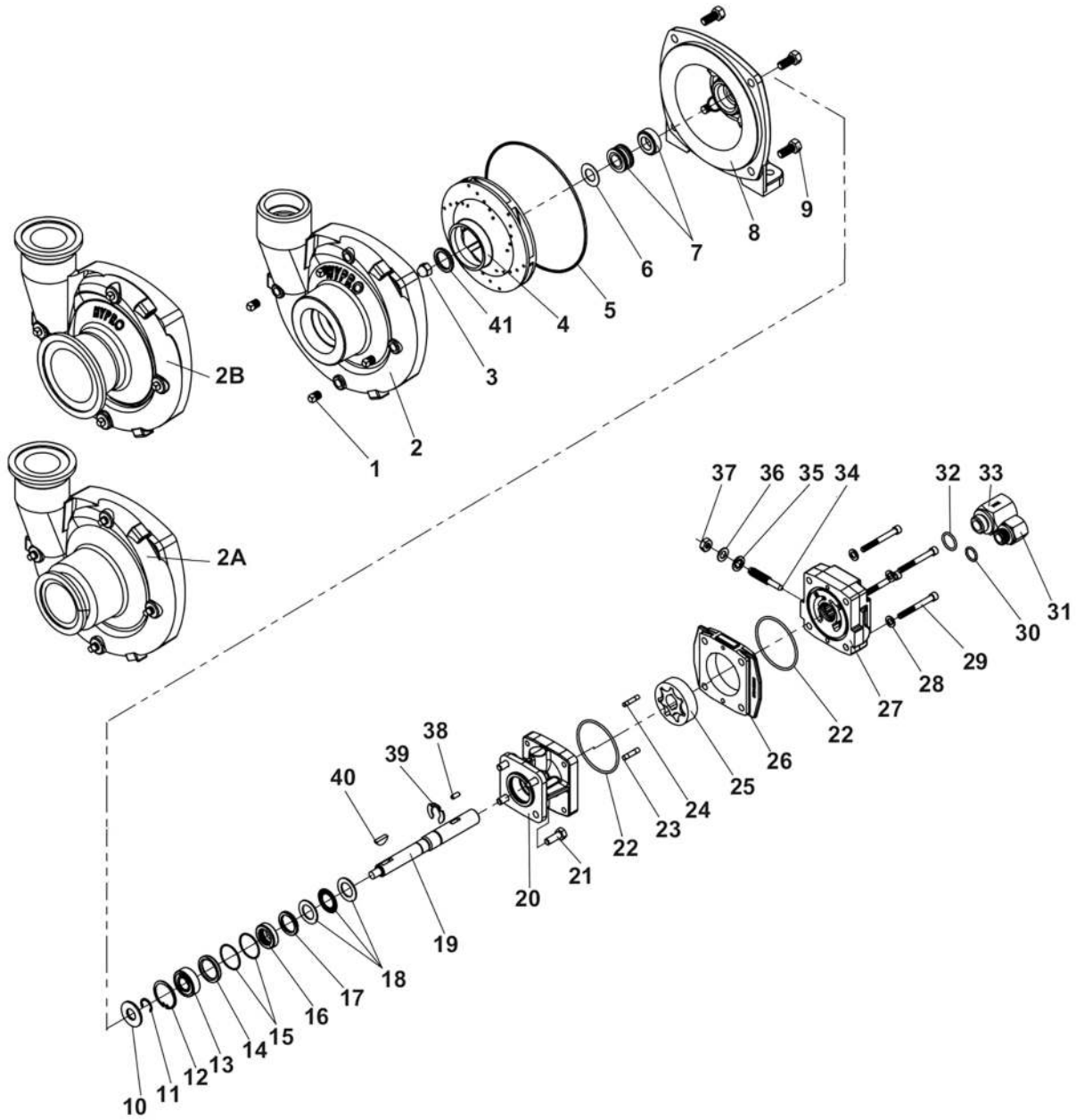
ILLUSTRATED PARTS LIST





ILLUSTRATED PARTS LIST

HYPRO 930C-HM1C Pump (550011)





ILLUSTRATED PARTS LIST

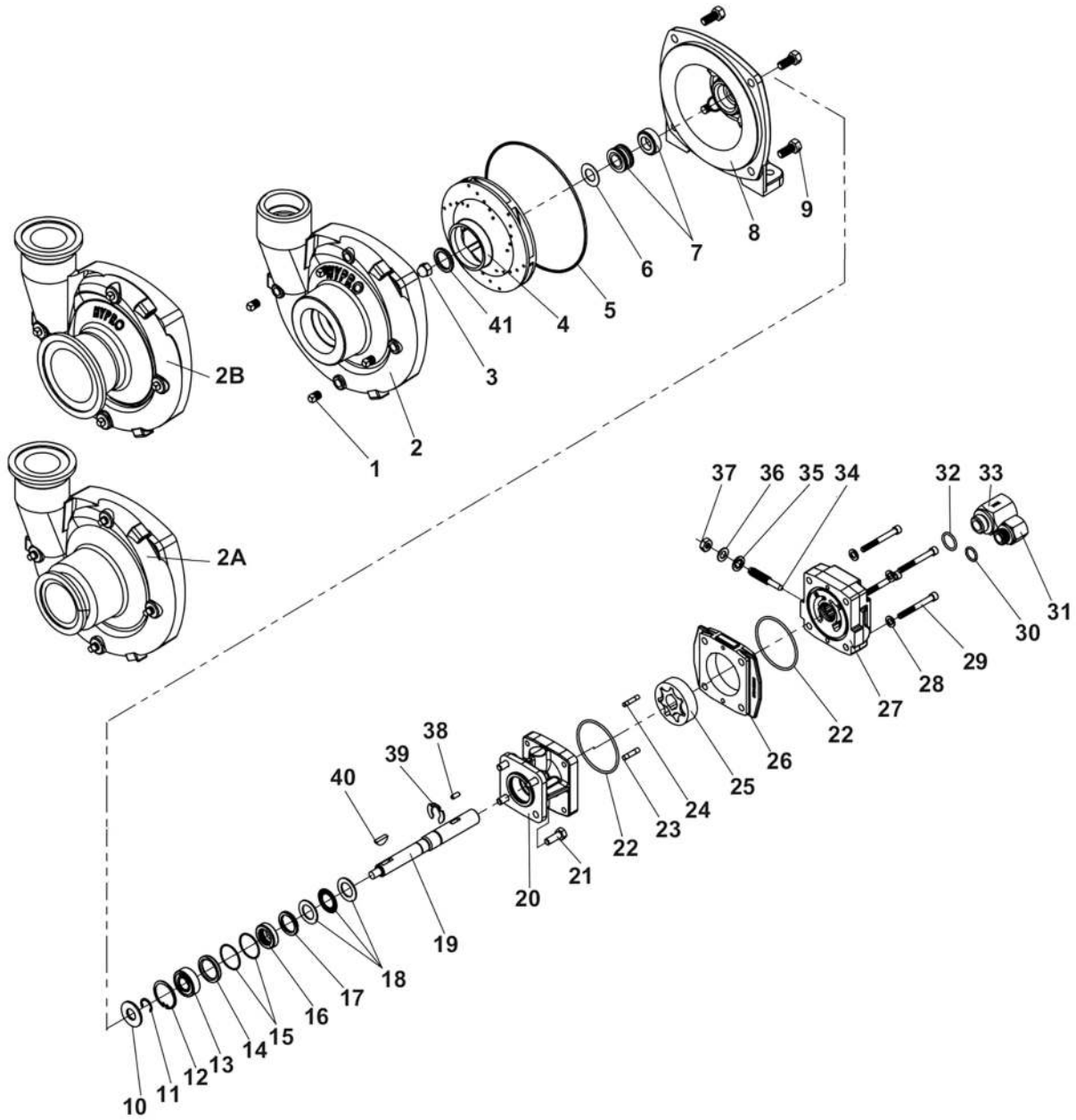
HYPRO 930C-HM1C Pump (550011) Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	2406-0007	4	Drain/Vent Plug (9306C)
1	2406-0016	4	Drain/Vent Plug (9306S)
2	0154-9200C1	1	Pump Casing (9306C)
2	0154-9200S1	1	Pump Casing (9306S)
2A	0157-9200C	1	Pump Casing (Universal Flange 220x200)
2B	0158-9200C	1	Pump Casing (Universal Flange 300x220 Cast)
2B	0158-9200S	1	Pump Casing (Universal Flange 300x220 S.S.)
3	2253-0002	1	Impeller Nut (9306C)
3	2253-0006	1	Impeller Nut (9306S (sold in Parts Kit 3430-0825))
4	0401-9200P2	1	Impeller (Nylon Standard 9306C)
4	0405-9200P2	1	Impeller (Polypropylene Optional) (Standard 9306S)
4	0407-9306P	1	Impeller (GTX Optional)
5	1720-0083	1	O-ring
6	1700-0100	1	Gasket
7	3430-0589	1	Mechanical Seal (Silicon Carbide) (Standard 9306S)
			Contains one each: mechanical seal (Reference 7) and o-ring (Reference 5).
8	0750-9300C2	1	Mounting Flange (9306C)
8	0756-9300S	1	Mounting Flange (9306S)
9	2210-0020	4	Hex Head Cap Screw (9306C)
9	2210-0125	4	Hex Head Cap Screw (9306S)
10	1410-0056	1	Slinger Ring
11	1810-0014	1	Snap Ring
12	1820-0013	1	Retaining Ring
13	2000-0010	1	Ball Bearing
14	1410-0131	1	Cartridge, Front
15	1720-0268	2	O-ring
16	2104-0010	1	Lip Seal (only sold in Parts Kit No. 3430-0748)
17	1410-0130	1	Seal Spacer
18	2029-0014	1	Thrust Bearing Assembly
19	0533-2500	1	Shaft (HM1C/HM5C)
19	0536-2500	1	Shaft (HM3C)
20	0150-2500C	1	Motor Body (includes needle bearing)
			NOTE: When ordering parts, give QUANTITY, PART NUMBER, DESCRIPTION, and COMPLETE MODEL NUMBER. Reference numbers are used ONLY to identify parts in the drawing and are NOT to be used as order numbers.
			Repair Parts Kit No. 3430-0332 Contains: One mechanical seal (Reference 7), one o-ring (Reference 5) and one rubber gasket (Reference 6).
			Parts Kit No. 3430-0748 Contains: One each ball bearing (Reference 13), motor shaft seal (Reference 16), thread seal gasket (Reference 35), two cartridge o-rings (Reference 15) and washer (Reference 36); two each motor housing o-rings (Reference 22), and port adapter o-rings (Reference 30 & 32).
			Hydraulic Motor Part Numbers. 2500-0081C (HM1C Models) 2500-0083C (HM3C Models) 2500-0085C (HM5C Models)



ILLUSTRATED PARTS LIST

HYPRO 930C-HM1C Pump (550011)



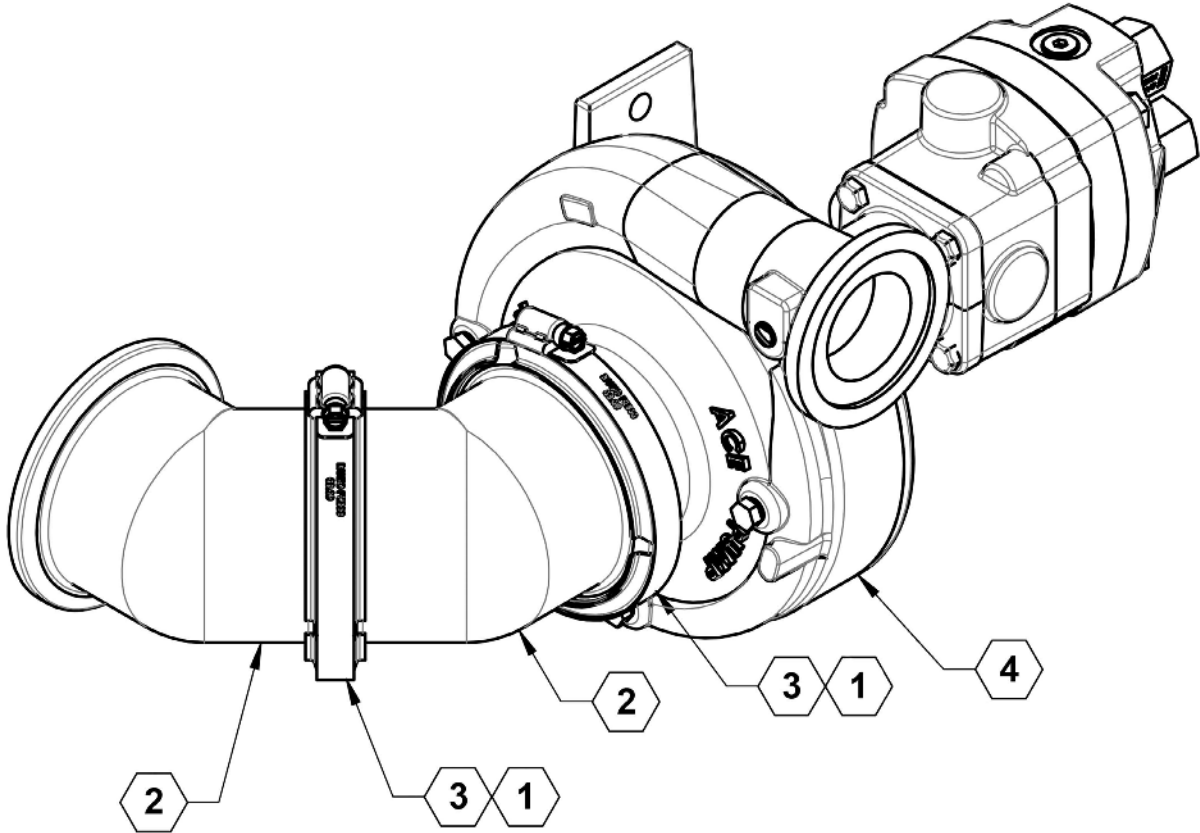


ILLUSTRATED PARTS LIST

HYPRO 930C-HM1C Pump (550011) Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
21	2210-0005	4	Hex Head Cap Screw
22	1720-0110	2	O-ring
23	1600-0044	1	Dowel Pin (HM1C/HM5C)
23	1600-0052	1	Dowel Pin (HM3C)
24	1600-0037	1	Dowel Pin (HM1C/HM5C)
24	1600-0068	1	Dowel Pin (HM3C)
25	3900-0022	1	Gerotor (HM1C)
25	3900-0024	1	Gerotor (HM3C)
25	3900-0048	1	Gerotor (HM5C)
26	0700-2500C1	1	Gerotor Housing (HM1C Models) 1/2" wide
26	0702-2500C1	1	Gerotor Housing (HM3C Models) 1" wide
26	0704-2500C1	1	Gerotor Housing (HM5C Models) 5/8" wide
27	0254-2500C2	1	Motor End Plate (includes needle bearing)
28	2270-0039	4	Washer
29	2220-0021	4	Cap Screw (HM1C Models)
29	2220-0044	4	Cap Screw (HM3C Models)
29	2220-0032	4	Cap Screw (HM5C Models)
30	1720-0108	1	O-ring
31	3360-0021A	1	Pressure Port Adapter (includes o-ring)
32	1720-0262	1	O-ring
33	3320-0051A	1	Tank Port Adapter (includes o-ring)
34	3220-0029	1	Bypass Adjusting Screw
35	1700-0047	1	Gasket
36	2270-0027	1	Washer
37	2250-0038	1	Lock Nut (2013 and Older)
38	1610-0031	1	Roll Pin HM1C / HM5C)
38	1610-0055	1	Roll Pin (HM3C)
39	1810-0026	1	Snap Ring
40	1610-0012	1	Woodruff Key (9306C)
40	4432	1	Woodruff Key (9306S)
41	2270-0071	1	Washer (9306C)
			NOTE: When ordering parts, give QUANTITY, PART NUMBER, DESCRIPTION, and COMPLETE MODEL NUMBER. Reference numbers are used ONLY to identify parts in the drawing and are NOT to be used as order numbers.
			Repair Parts Kit No. 3430-0332 Contains: One mechanical seal (Reference 7), one o-ring (Reference 5) and one rubber gasket (Reference 6).
			Parts Kit No. 3430-0748 Contains: One each ball bearing (Reference 13), motor shaft seal (Reference 16), thread seal gasket (Reference 35), two cartridge o-rings (Reference 15) and washer (Reference 36); two each motor housing o-rings (Reference 22), and port adapter o-rings (Reference 30 & 32).
			Hydraulic Motor Part Numbers. 2500-0081C (HM1C Models) 2500-0083C (HM3C Models) 2500-0085C (HM5C Models)

ACE 204-HYD-304 Pump Assembly



ACE 204-HYD-304 Pump Assembly Parts List

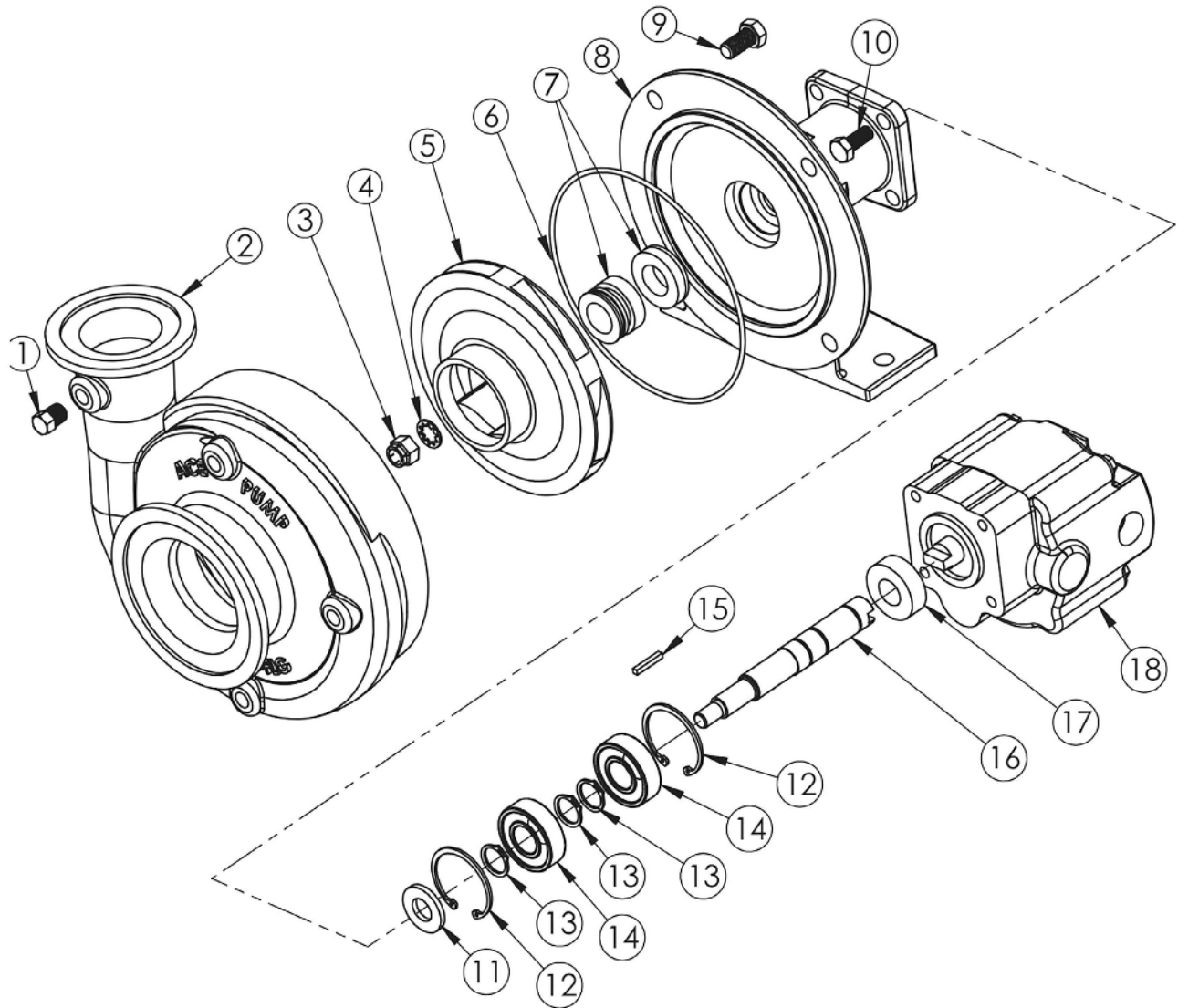
ITEM	PART NO.	QTY.	DESCRIPTION
1	530024	2	GASKET, 3" EPDM
2	530234	2	3" COUPLER, 45°
3	540003	2	CLAMP, WORM SCREW 3"
4	550025	1	PUMP, ACE 205F 304 ASSEMBLY



ILLUSTRATED PARTS LIST



ACE 204-HYD-304 Pump (550025)



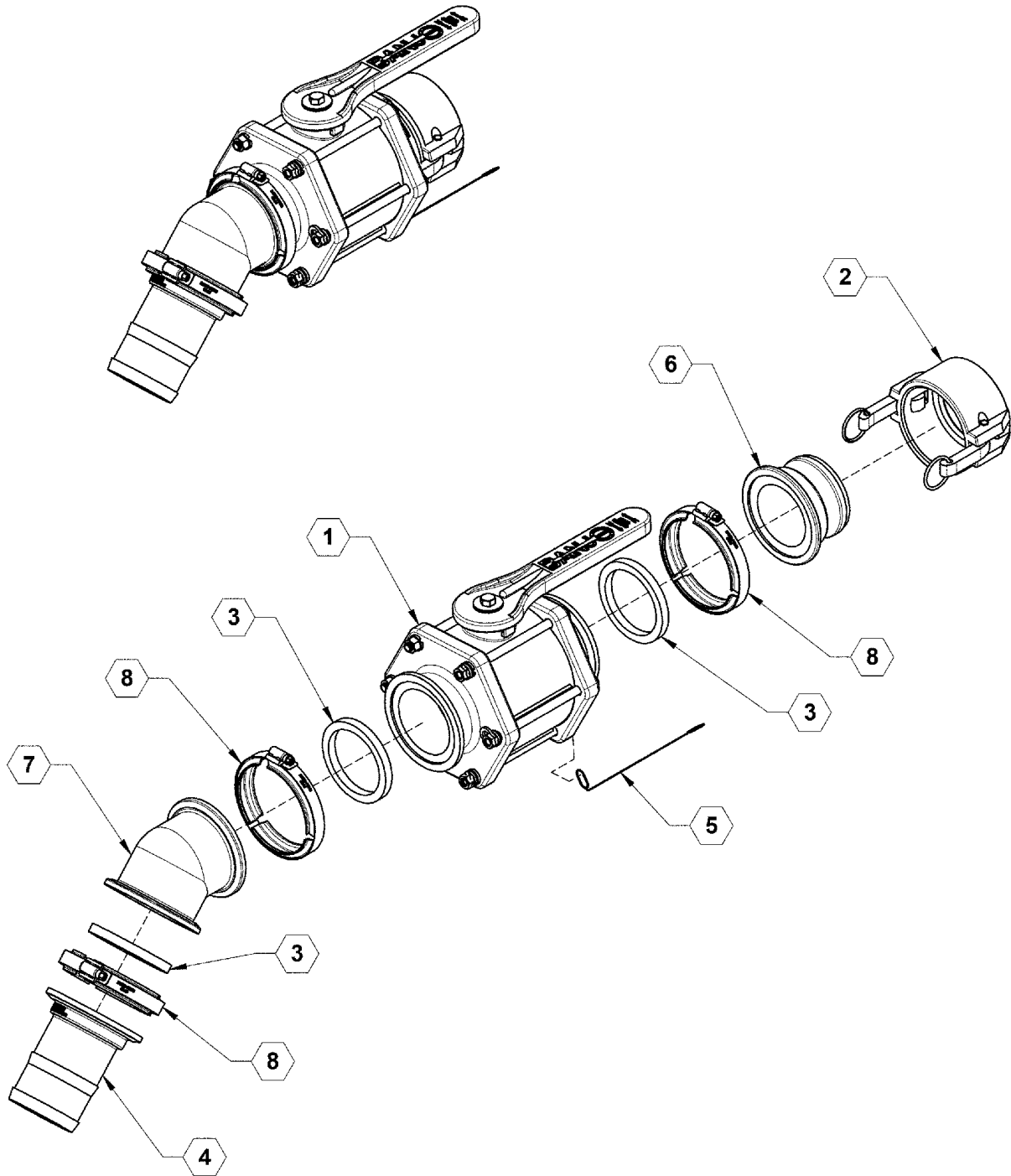


ILLUSTRATED PARTS LIST

ACE 204-HYD-304 Pump (550025) Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
0	550025	1	PUMP, 205-304 Flanged, Complete Pump
1	BAC-53	1	Pipe plug
1	41120	1	Pipe plug, stainless steel (optional)
2	7AC-14-FLG	1	Volute, 300 standard flange x 220 full port flange
3	BAC-23-A	1	Nut, 3/8" NF, cad plated
3	BAC-23-A-SS	1	Nut, 3/8" NF, stainless steel (optional)
4j	BAC-24-HYD-SS	1	Washer, 3/8" star, stainless steel
5	BAC-26-200-P	1	Impeller, with extended keyway, thermoplastic
5	BAC-26-200-CI	1	Impeller, with extended keyway, cast iron (optional)
5	BAC-26-200-SS	1	Impeller, with extended keyway, 316 stainless steel (optional)
6j	BAC-4A	1	O-ring, body seal
7j	BAC-7SC-205V	1	Seal, silicon carbide
8	BAC-14-205-HYD	1	Mounting frame for 205 pump
9	40950	4	Cap screw, 3/8" NC x 3/4" hex head
10	41330	4	Cap screw, 5/16" NC x 3/4" hex head, motor to pump
11	BAC-54	1	Slinger
12	BACH-33	1	Snap ring, internal, BAC-14-205 mounting frame
13	BACH-32-HD	3	Snap ring, external, BAC-6-205 shaft
14	40880	1	Ball bearing, sealed, BAC-6-205 shaft
15	BAC-25	1	Key, 1/8" x 1/8" x 13/16", extended keyway
16	BAC-6-205-HYD-SS	1	Shaft, extended keyway, tang, stainless steel
17	S305	1	Seal support spacer for 205 series pump
18	BAC-75-HYD-304A	1	Hydraulic motor, 13 GPM, 1/2" NPT ports
18	BAC-75-HYD-304A-12SAE	1	Hydraulic motor, 13 GPM, #12 SAE end ports (optional)
j	RK-FMCSC-205	1	Repair kit for FMC-205 pump with silicon carbide shaft seal

3" Quick Fill Valve Assembly



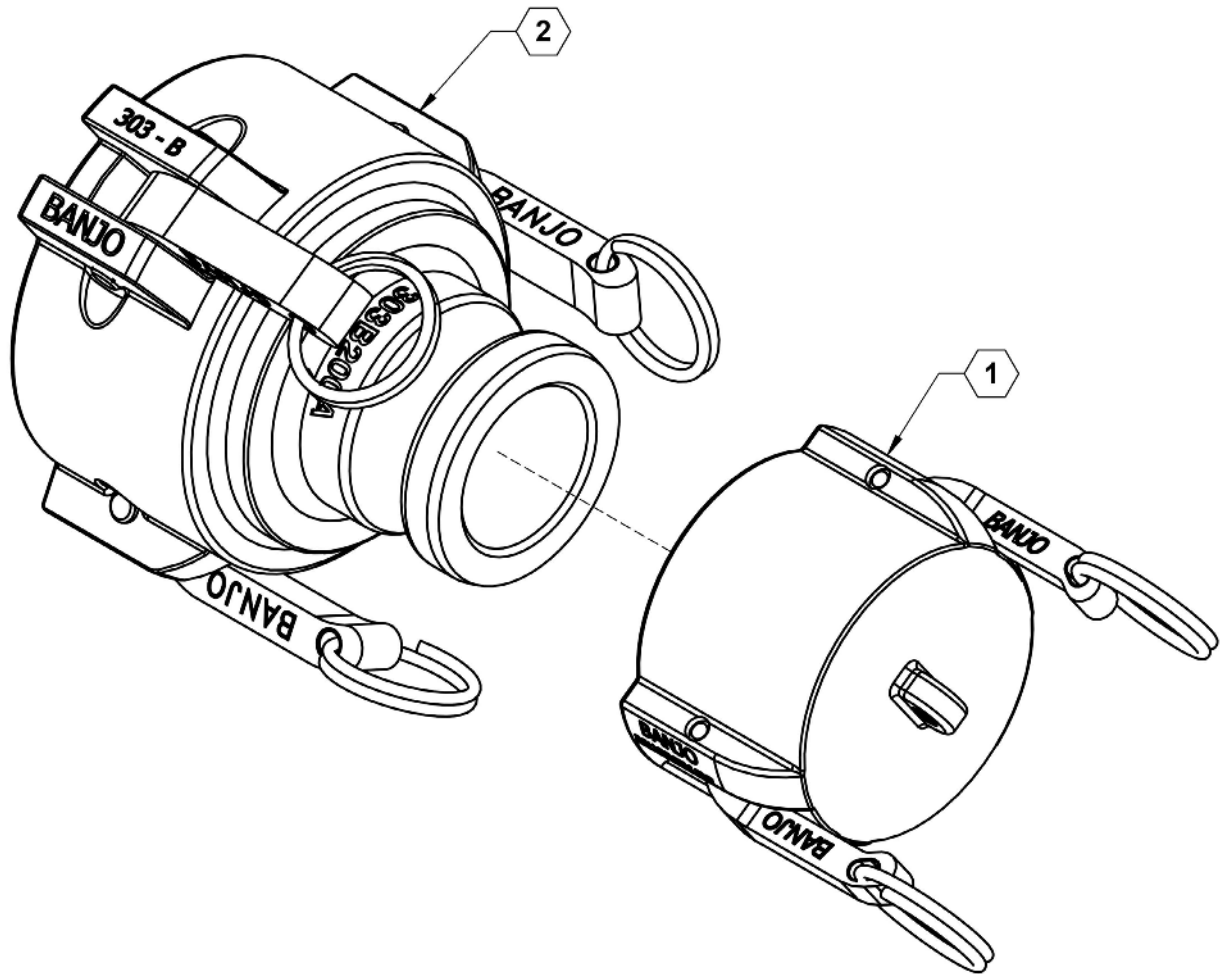


ILLUSTRATED PARTS LIST

3" Quick Fill Valve Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	500042	1	MV300CF
2	530023	1	CAP, 3"
3	530024	3	GASKET, 3" EPDM
4	530113	1	Flanged 3" Hose Barb
5	530179	1	CABLE LANYARD
6	530233	1	3" MANIFOLD X 3" MALE ADAPTER
7	530234	1	3" COUPLER, 45 DEGREE
8	540003	3	CLAMP, WORM SCREW 3"

2" Quick Fill Valve Adapter Assembly





ILLUSTRATED PARTS LIST

2" Quick Fill Valve Adapter Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	530017	1	CAP, 2" QUICK FILL
2	530357	1	3" FEMALE COUPLING - 2" MALE ADAPTER



Assembly Checklist

Assembly Checklist

Complete this check after assembly.

	Task
	All hardware is installed and torqued to proper rating.
	All hydraulic fittings are attached tightly.
	All electric harnesses are connected.
	All plumbing and hose lines are connected tightly
	Hydraulic and electrical lines have been zip tied to prevent damage.
	All grease zerks are installed.
	All decals are in place.



Assembly Checklist

SPECIFICATIONS

Hydraulic Fitting Torque

Tightening flare type tube fittings*

1. Check flare and flare seat for defects that might cause leakage.
2. Align tube with fitting before tightening.
3. Lubricate connection and hand tighten swivel nut until snug.
4. To prevent twisting tubes or hoses, use two wrenches. Place one wrench on connector body and with second wrench tighten swivel nut to torque shown.

*Torque values shown are based on lubricated connections.

Tube Size OD	Nut Size Across Flats	Torque Value*		Recommended Turns to Tighten (After Finger Tightening)	
		(N-m)	(lb-ft)	(Flats)	(Turns)
(in.)	(in.)				
3/16	7/16	8	6	1	1/6
1/4	9/16	12	9	1	1/6
5/16	5/8	16	12	1	1/6
3/8	11/16	24	18	1	1/6
1/2	7/8	46	34	1	1/6
5/8	1	62	46	1	1/6
3/4	1-1/4	102	75	3/4	1/8
7/8	1-3/8	122	90	3/4	1/8

Metric Torque-Tension Values

B o l t S i z e	C l a s s 4 . 8		C l a s s 8 . 8		C l a s s 1 0 . 9		C l a s s 1 2 . 9	
	Dry ft-lbs(N-m)	Lubricated ft-lbs(N-m)	Dry ft-lbs(N-m)	Lubricated ft-lbs(N-m)	Dry ft-lbs(N-m)	Lubricated ft-lbs(N-m)	Dry ft-lbs(N-m)	Lubricated ft-lbs(N-m)
M6	3.5 (4.7)	4.5 (6)	6.5 (8.9)	8.5 (11.3)	9.5 (13)	12 (16.5)	11.5 (15.5)	14.5 (19.5)
M8	8.5 (11.5)	10.5 (14.5)	16 (22)	20 (27.5)	23.5 (32)	29.5 (40)	27.5 (37)	35 (47)
M10	17 (23)	21 (29)	32 (43)	40 (55)	46 (63)	59 (80)	55 (75)	70 (95)
M12	29.5 (40)	37 (50)	55 (75)	70 (95)	80 (110)	105 (140)	95 (130)	120 (165)
M14	46 (63)	59 (80)	88 (120)	110 (150)	130 (175)	165 (220)	150 (205)	190 (260)
M16	74 (100)	92 (125)	140 (190)	175 (240)	200 (275)	255 (350)	235 (320)	300 (400)
M18	100 (135)	125 (170)	195 (265)	245 (330)	275 (375)	350 (475)	325 (440)	410 (560)
M20	140 (190)	180 (245)	275 (375)	350 (475)	390 (530)	500 (675)	460 (625)	580 (790)
M22	195 (265)	245 (330)	375 (510)	480 (650)	535 (725)	680 (920)	625 (850)	800 (1080)
M24	245 (330)	315 (425)	480 (650)	600 (820)	680 (920)	850 (1150)	800 (1080)	1000 (1350)



Assembly Checklist

SAE Torque-Tension Values						
Bolt Size	Grade 2		Grade 5		Grade 8	
	Dry lb-fts (N-m)	Lubricated lb-fts (N-m)	Dry lb-fts (N-m)	Lubricated lb-fts (N-m)	Dry lb-fts (N-m)	Lubricated lb-fts (N-m)
1/4-28	6 (9)	5 (6)	10 (13)	7 (10)	14 (19)	10 (14)
1/4-20	6 (8)	4 (6)	8 (11)	6 (9)	12 (16)	9 (12)
5/16-24	13 (17)	9 (13)	19 (23)	14 (20)	27 (37)	20 (28)
5/16-18	11 (15)	8 (11)	17 (24)	12 (18)	25 (33)	18 (25)
3/8-24	23 (31)	17 (23)	35 (48)	26 (36)	49 (59)	37 (44)
3/8-16	20 (27)	15 (20)	31 (42)	23 (31)	44 (59)	32 (44)
7/16-20	36 (48)	27 (36)	55 (75)	41 (56)	78 (106)	58 (79)
7/16-14	32 (43)	24 (33)	49 (67)	37 (50)	70 (95)	52 (71)
1/2-20	55 (75)	41 (56)	85 (115)	64 (86)	120 (163)	90 (122)
1/2-13	49 (66)	37 (50)	75 (102)	57 (77)	106 (144)	80 (108)
9/16-18	78 (106)	59 (80)	121 (164)	91 (123)	171 (232)	128 (174)
9/16-12	70 (95)	53 (72)	109 (148)	82 (111)	154 (209)	115 (156)
5/8-18	110 (149)	82 (111)	170 (231)	127 (172)	240 (326)	180 (244)
5/8-11	97 (132)	73 (99)	150 (204)	113 (153)	212 (288)	159 (216)
3/4-16	192 (261)	144 (195)	297 (403)	223 (303)	420 (570)	315 (427)
3/4-10	172 (233)	129 (175)	269 (365)	201 (273)	376 (510)	282 (383)
1-12	--	--	704 (955)	528 (716)	995 (1350)	746 (1012)
1-8	--	--	644 (874)	483 (655)	909 (1233)	681 (924)



NOTES



FAST GLOBAL SOLUTIONS
4130 Commerce Boulevard
Windom, MN 56101
1-800-772-9279 Toll Free
1-507-427-3861 Voice
1-507-427-3030 Fax
www.fastsprayers.com