

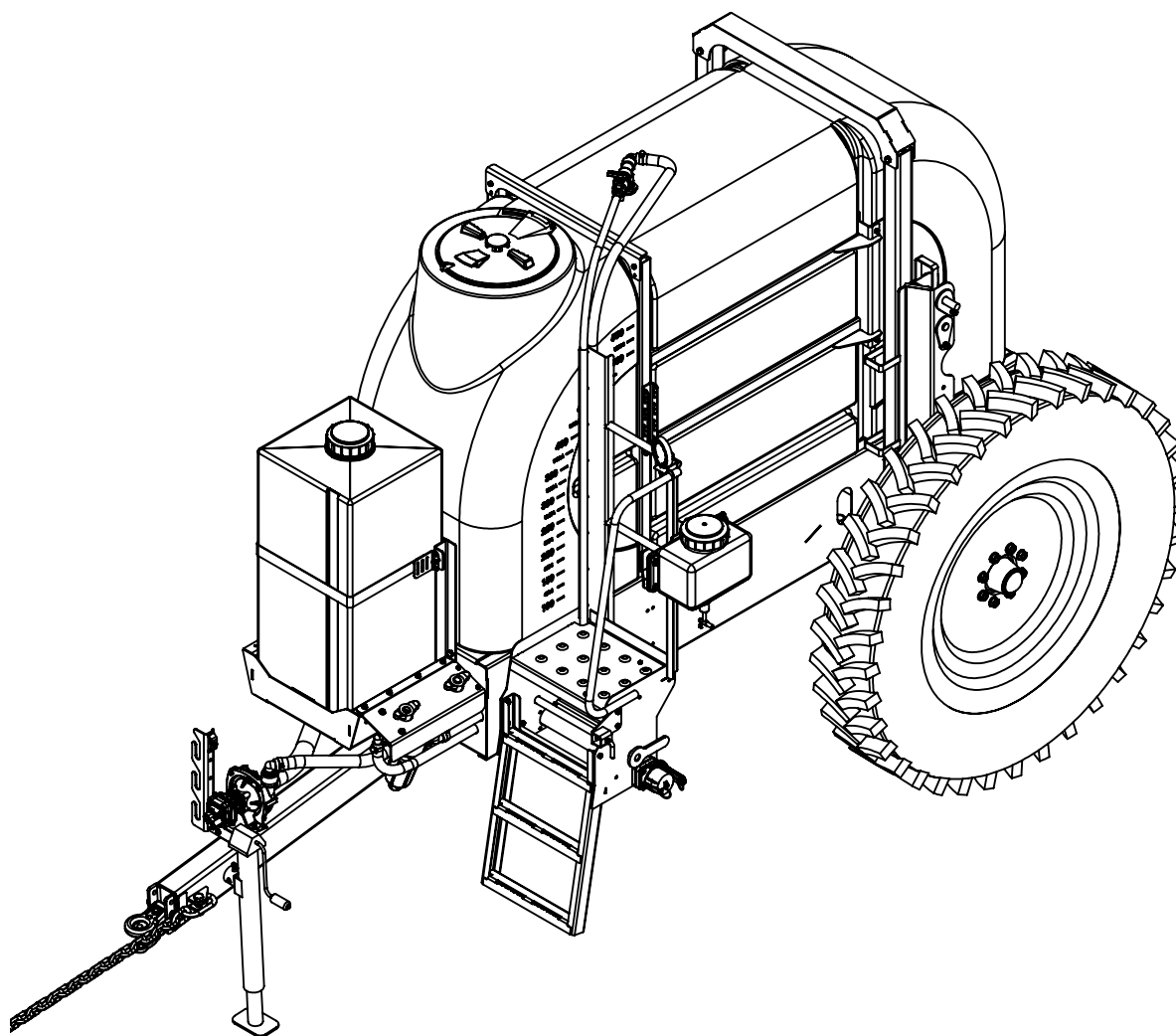


Doing Our Best to Provide You the Best

AB20087, Rev 2
8/23

PULL TYPE SPRAYER

600 Gallon



OPERATOR MANUAL

Introduction

Thank you for purchasing a Demco sprayer. We feel you have made a wise choice and hope you are completely satisfied with your new sprayer. If you have any questions regarding the applications of certain solutions or chemicals, contact your chemical supplier and follow chemical manufacturer recommendations as well as all licensing and use restrictions or regulations.

WARRANTY POLICY, OPERATOR MANUALS, PARTS MANUALS & REGISTRATION

Go online to www.demco-products.com to review Demco warranty policies, operator manuals and register your Demco product.



WARNING: TO AVOID PERSONAL INJURY OR DEATH, OBSERVE FOLLOWING INSTRUCTIONS:

- Chemicals are dangerous. Know exactly what you’re going to do and what is going to happen before attempting to work with these products. Improper selection or use can injure people, animals, plants and soil.
- Always wear protective clothing such as coveralls, goggles and gloves when working with chemicals or sprayer.
- Be sure to dispose of all unused chemicals or solutions in a proper and ecologically sound manner.

GENERAL INFORMATION

- 1. Unless otherwise specified, high-strength (grade5) (3 radial-line head markings) hex head bolts are used throughout assembly of this sprayer.
- 2. Whenever terms “LEFT” and “RIGHT” are used in this manual it means from a position behind sprayer and facing forward.
- 3. When placing a parts order, refer to this manual for proper part numbers and place order by **PART NO. and DESCRIPTION.**

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TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH!



THIS SYMBOL MEANS
ATTENTION
BECOME ALERT
YOUR SAFETY IS INVOLVED!

SIGNAL WORDS:

This manual uses the following signal words--**DANGER**, **WARNING**, and **CAUTION**-- with safety messages. The appropriate signal word has been selected using the following guidelines.

DANGER:

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

WARNING:

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION:

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

If you have questions not answered in this manual, require additional copies, or if your manual is damaged, please contact your dealer or DEMCO, 4010 320th Street, Boyden, IA 51234
ph: (712) 725-2311 or Toll Free: 1-800-543-3626 Fax: (712) 725-2380 or 1-800-845-6420
<http://www.demco-products.com>



SAFETY...YOU CAN LIVE WITH IT



EQUIPMENT SAFETY GUIDELINES

Every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or you yourself, follow them.

In order to provide a better view, certain illustrations in your owners manual may show an assembly with a safety shield removed. However, equipment should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace shield prior to use.

Replace any caution, warning, danger or instruction safety decal that is not readable or is missing. Location of such decals is indicated in this booklet.

Do not attempt to operate this sprayer under the influence of alcohol or drugs.

Review safety instructions with all users annually.

Operator should be a responsible adult. **DO NOT ALLOW PERSONS TO OPERATE OR ASSEMBLE THIS UNIT UNTIL THEY HAVE DEVELOPED A THOROUGH UNDERSTANDING OF SAFETY PRECAUTIONS AND HOW IT WORKS.**

To prevent injury or death, use a tractor equipped with a roll over protective system (ROPS). Do not paint over, remove, or deface any safety signs or warning decals on your sprayer. Observe all safety signs and practice instructions on them.

Never exceed limits of sprayer. If its ability to do a job, or to do so safely is in question **DON'T TRY IT.**



LIGHTING AND MARKING

It is the responsibility of operator to know lighting and marking requirements of local highway authorities and to install and maintain equipment to provide compliance with regulations. Add extra lights when transporting at night or during periods of limited visibility.

Lighting kits are available from your dealer or from manufacturer.



SAFETY SIGN CARE

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing or have become illegible.
- Replacement parts that displayed a safety sign should also display current sign.
- Safety signs are available from your distributor, dealer parts department, or factory.

How to install safety signs:

- Be sure that installation area is clean and dry.
- Decide on exact position before you remove backing paper.
- Remove smallest portion of split backing paper.
- Align decal over specified area and carefully press small portion with exposed sticky backing in place.
- Slowly peel back remaining paper and carefully smooth remaining portion of decal into place.
- Small air pockets can be pierced with a pin and smoothed out using piece of decal backing paper.

**TIRE SAFETY**

- Failure to follow proper procedures when mounting a tire on a rim can produce an explosion which may result in a serious injury or death.
- Do not attempt to mount a tire unless you have proper equipment and experience to do job.
- Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires.
- Always order and install tires and wheels with appropriate type and load capacity to meet or exceed anticipated weight to be placed on sprayer.

**REMEMBER**

Your best assurance against accidents is a careful and responsible operator. If there is any portion of this manual or function you do not understand, contact your local authorized dealer or manufacturer.

**BEFORE OPERATION:**

- Carefully study and understand this manual.
- Do not wear loose-fitting clothing which may catch in moving parts.
- Always wear protective clothing and substantial shoes.
- It is recommended that suitable protective hearing and eye protection be worn.
- Operator may come in contact with certain materials which may require specific safety equipment relative to handling of such materials. (Examples: extreme dust, molds, fungus, bulk fertilizers, etc.)
- Keep wheel and lug nuts tightened to specified torque.
- Assure that agricultural implement tires are inflated evenly.
- Give sprayer a visual inspection for any loose bolts, worn parts, or cracked welds, and make necessary repairs. Follow maintenance safety instructions included in this manual.
- Be sure there are no tools lying on or in equipment.
- Do not use sprayer until you are sure that area is clear, especially around children and animals.
- Don't hurry learning process or take sprayer for granted. Ease into it and become familiar with your new equipment.
- Practice operation of your sprayer and its attachments. Completely familiarize yourself and other operators with its operation before using.
- Use a tractor equipped with Roll Over Protection System (ROPS) and fasten your seat belt prior to starting the engine.
- Manufacturer does not recommend usage of a tractor with the ROPS removed.
- Move tractor wheels to widest recommended settings to increase stability.
- Do not allow anyone to stand between tongue or hitch and towing vehicle when backing up to equipment.



DURING OPERATION

- Beware of bystanders, **PARTICULARLY CHILDREN!** Always look around to make sure that it is safe to start engine of towing vehicle or move unit. This is particularly important with higher noise levels and quiet cabs, as you may not hear people shouting.
- **NO PASSENGERS ALLOWED** - Do not carry passengers anywhere on or in tractor or sprayer.
- Keep hands and clothing clear of moving parts.
- Do not clean, lubricate, or adjust your sprayer while it is moving.
- When halting operation, even periodically, set tractor or towing vehicles brakes, disengage PTO, shut off engine, and **remove ignition key**.
- Pick the most level possible route when transporting across fields. Avoid edges of ditches, gullies, and steep hillsides.
- Be extra careful when working on inclines.
- Periodically clear equipment of brush, twigs or other materials to prevent buildup of dry combustible materials.
- Maneuver tractor or towing vehicle at safe speeds.
- Avoid overhead wires or other obstacles. Contact with overhead lines could cause serious injury or death.
- Avoid loose gravel, rocks, and holes; they can be dangerous for equipment operation or movement.
- Allow for sprayer length when making turns.
- Do not walk or work under raised components or attachments unless securely positioned and blocked.
- Keep all bystanders, pets, and livestock clear of work area.
- Operate towing vehicle from operators seat only.
- Never stand alongside of unit with engine running or attempt to start engine and/or operate machine while standing alongside of unit.
- Never leave running equipment unattended.
- As a precaution, always recheck hardware on equipment following every 100 hours of operation. Correct all problems. Follow maintenance safety procedures.



FOLLOWING OPERATION

- Following operation, or when unhitching, stop tractor or towing unit, set brakes, disengage PTO and all power drives, shut off engine and **remove ignition key**.
- Store sprayer in an area away from human activity.
- Do not park sprayer where it will be exposed to livestock for long periods of time. Damage and livestock injury could result.
- Do not permit children to play on or around stored sprayer.
- Make sure all parked machines are on a hard, level surface and engage all safety devices.
- Wheel chocks may be needed to prevent unit from rolling.



HIGHWAY AND TRANSPORT OPERATIONS

- **SAFETY CHAINS:** If equipment is going to be transported on a public highway, always follow state and local regulations regarding safety chains and auxiliary lighting. Be sure to check with local law enforcement agencies for your own particular regulations. If required, safety chains should be obtained and installed. Only safety chains (not elastic or nylon/plastic tow straps) should be used to retain connection between towing and towed machines in event of separation of primary attaching system. Use a high strength, appropriately sized hitch pin with a mechanical retainer and attach safety chains. Secure safety chain to draw bar cage, mounting loops, or bumper frame. Replace the safety chain if it becomes damaged or stretched.
- Adopt safe driving practices:
 - Keep brake pedals latched together at all times. **NEVER USE INDEPENDENT BRAKING WITH MACHINE IN TOW, LOSS OF CONTROL AND/OR UPSET OF UNIT CAN RESULT.**
 - Always drive at a safe speed relative to local conditions, ensure that your speed is low enough for an emergency stop. Keep speed to a minimum.
 - Reduce speed prior to turns to avoid risk of overturning.
 - Always keep tractor or towing vehicle in gear to provide engine braking when going downhill. Do not coast.
 - Do not drink and drive!
- Comply with state and local laws governing highway safety and movement of farm machinery on public roads.
- Use approved accessory lighting, flags and necessary warning devices to protect yourself and operators of other vehicles on highway during transport. Various safety lights and devices are available from your dealer.
- Use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.
- When driving tractor and sprayer on road under 20 m.p.h. (40 kph) at night or during day, use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem.
- Plan your route to avoid heavy traffic.
- Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.
- Be observant of bridge load ratings. Do not cross bridges rated lower than gross weight at which you are operating.
- Watch for obstructions overhead and side to side while transporting.
- Always operate equipment in a position to provide maximum visibility at all times. Make allowances for increased length and weight of equipment when making turns, stopping unit, etc.



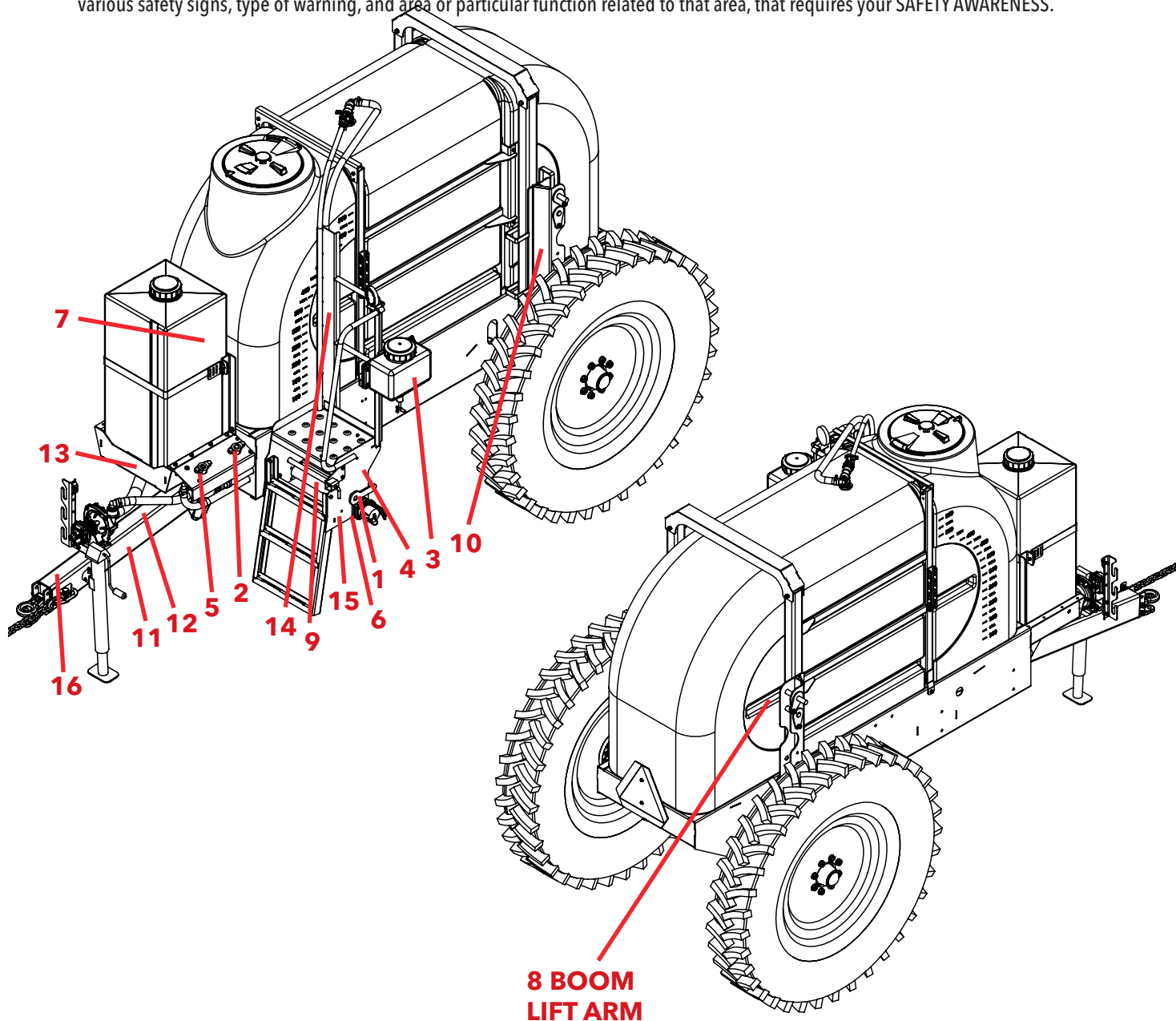
PERFORMING MAINTENANCE

- Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.
- Make sure there is plenty of ventilation. Never operate engine of towing vehicle in a closed building. Exhaust fumes may cause asphyxiation.
- Before working on this machine, stop towing vehicle, set brakes, disengage PTO and all power drives, shut off engine and **remove ignition key.**
- Be certain all moving parts and attachments have come to a complete stop before attempting to perform maintenance.
- Always use safety support and block wheels. Never use a jack to support machine.
- Always use proper tools or equipment for job at hand.
- Use extreme caution when making adjustments.
- Follow torque chart in this manual when tightening bolts and nuts.

- Never use your hands to locate a hydraulic leak on attachments. Use a small piece of cardboard or wood. Hydraulic fluid escaping under pressure can penetrate skin.
- Openings in skin and minor cuts are susceptible to infection from hydraulic fluid. **Without immediate medical treatment, serious infection and reactions can occur.**
- When disconnecting hydraulic lines, shut off hydraulic supply and relieve all hydraulic pressure.
- Replace all **shields** and **guards** after servicing and before moving.
- After servicing, be sure all tools, parts and service equipment are removed.
- Do not allow grease or oil to build up on any steps or platform.
- When replacing bolts, refer to owners manual.
- Refer to bolt torque chart for head identification marking.
- Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. Manufacturer will not claim responsibility for use of unapproved parts or accessories and other damages as a result of their use.
- If equipment has been altered in any way from original design, manufacturer does not accept any liability for injury or warranty.
- A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this equipment.

SAFETY SIGN LOCATIONS

Types of safety sign and locations on equipment are shown in illustration below. Good safety requires that you familiarize yourself with various safety signs, type of warning, and area or particular function related to that area, that requires your SAFETY AWARENESS.

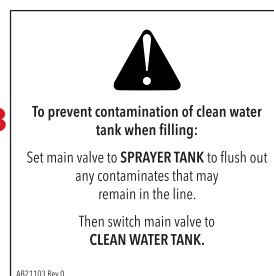
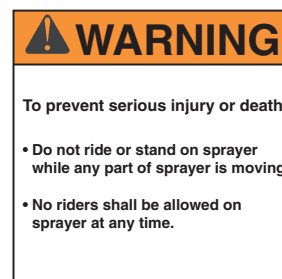
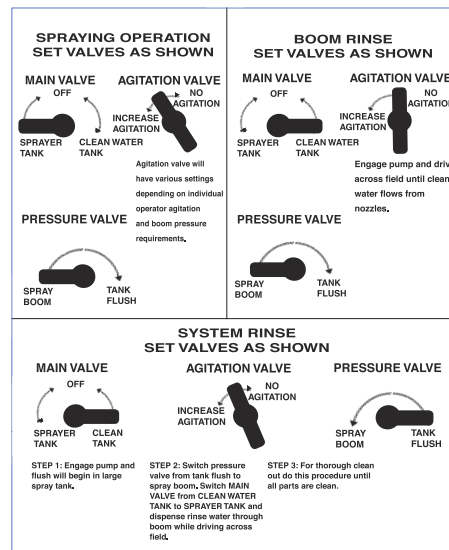
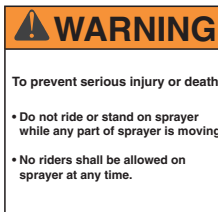
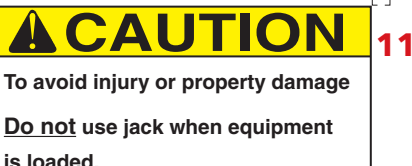
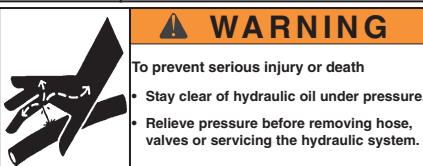
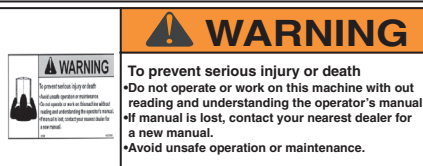
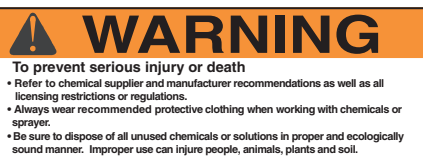
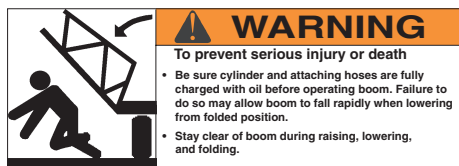
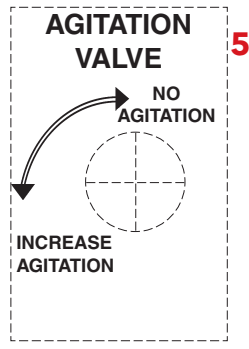
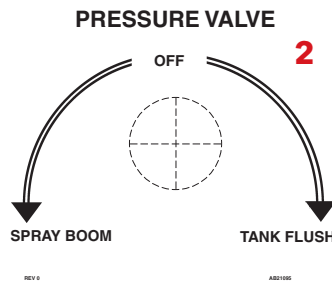
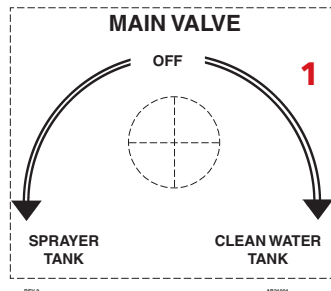


* Not sold separately, only available in decal kit #AB21038

** Not sold separately, only available in decal kit #AB21093

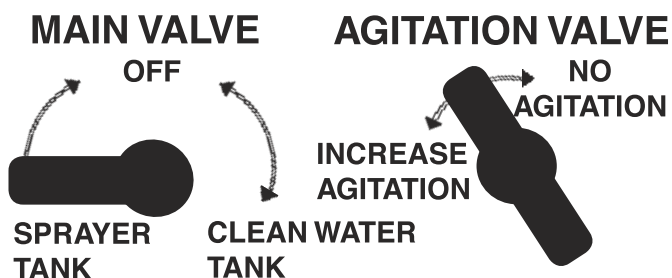
***Only used with X-Fold boom

ITEM	PART #	DESCRIPTION	QTY	ITEM	PART #	DESCRIPTION	QTY
1	**AB21094	MAIN VALVE DIRECTIONAL DECAL	1	9	*AB21018	3 7/8" X 3 7/8" WARNING DECAL FOR LADDER	1
2	**AB21095	PRESSURE VALVE DIRECTIONAL DECAL	1	10	*AB21019	5 7/8" X 5 7/8" WARNING DECAL FOR PINCHING HAZARD	2
3	**AB21024	5" X 1 1/2" FRESH WATER ONLY DECAL	2	11	*AB21026	6" X 2 1/2" CAUTION FOR JACK	1
4	**AB21097	18 3/4" X 7" VALVE PANEL OPERATION INSTRUCTION DECAL	1	12	*AB21035	11 7/8" X 3 7/8" THREE PANEL WARNING	1
5	**AB21096	DECAL FOR AGITATION VALVE	1	13	*AB21036	6 7/8" X 5 3/4" TWO PANEL WARNING ONE PANEL DANGER	1
6	**AB21079	DECAL FOR SPRAY TANK	1	14	AB21098	600 GAL MARKER	1
7	**AB21080	DECAL FOR CLEAR WATER TANK	1	15	AB21103	3" X 3" FILL CONTAMINATION	1
8	*AB21011	6 3/8" X 2 3/8" WARNING DECAL FOR BOOM	2	16	***AB21105	3" X 3" X-FOLD DECAL	1
Please order replacement parts by PART NO. and DESCRIPTION				Please order replacement parts by PART NO. and DESCRIPTION			



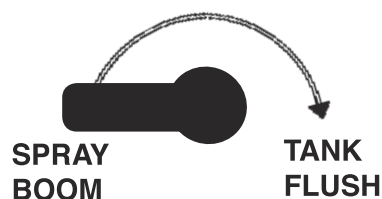
- 550 G
- 1990 L
- 500 G
- 1800 L
- 450 G
- 1610 L
- 400 G
- 1420 L
- 350 G
- 1230 L
- 300 G
- 1040 L
- 250 G
- 850 L
- 200 G
- 660 L
- 150 G
- 470 L
- 100 G

SPRAYING OPERATION SET VALVES AS SHOWN

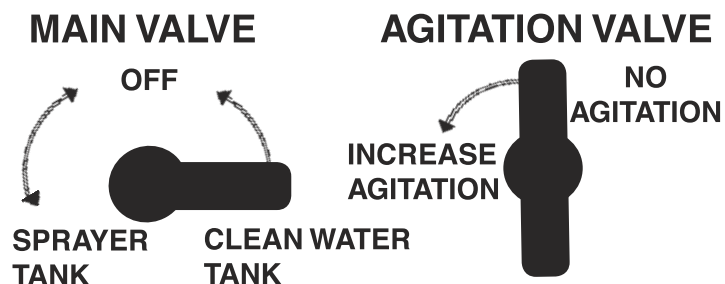


Agitation valve will have various settings depending on individual operator agitation and boom pressure requirements.

PRESSURE VALVE

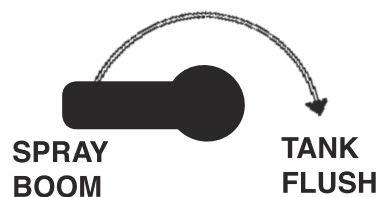


BOOM RINSE SET VALVES AS SHOWN

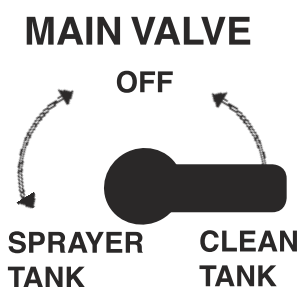


Engage pump and drive across field until clean water flows from nozzles.

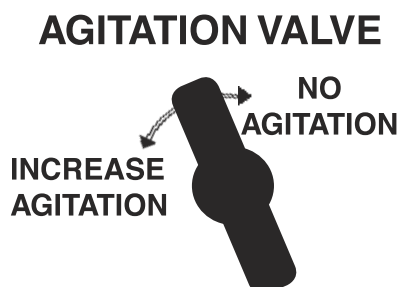
PRESSURE VALVE



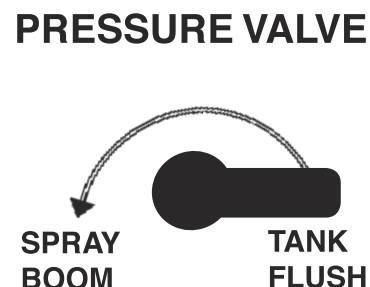
SYSTEM RINSE SET VALVES AS SHOWN



STEP 1: Engage pump and flush will begin in large spray tank.



STEP 2: Switch pressure valve from tank flush to spray boom. Switch MAIN VALVE from CLEAN WATER TANK to SPRAYER TANK and dispense rinse water through boom while driving across field.



STEP 3: For thorough clean out do this procedure until all parts are clean.



TORQUE SPECIFICATION

Torque figures indicated are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or capscrews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

* GRADE or CLASS value for bolts and capscrews are identified by their head markings.

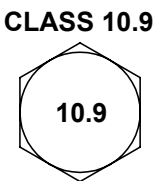
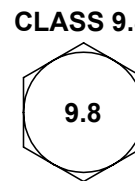
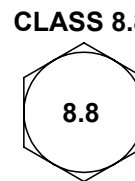
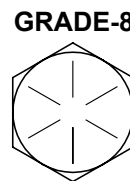
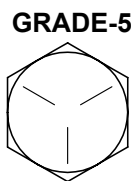
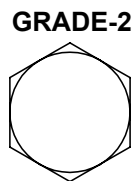
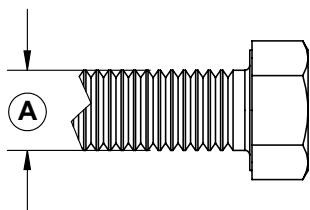
BOLT TORQUE DATA FOR STANDARD NUTS, BOLTS, AND CAPSCREWS.

Tighten all bolts to torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt chart as guide. Replace hardware with same grade bolt.

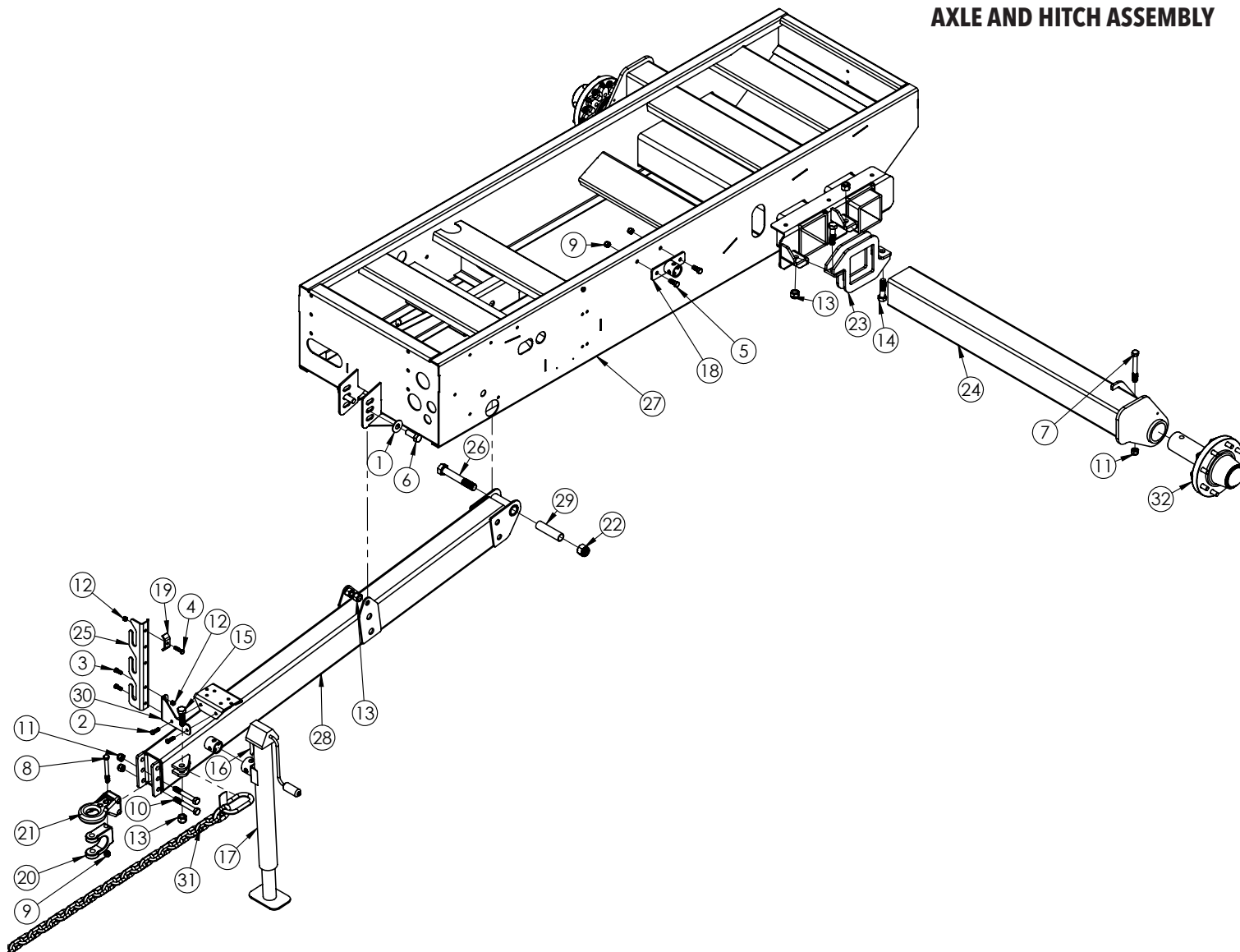
NOTE: Unless otherwise specified, high-strength Grade 5 hex bolts are used throughout assembly of equipment.

Bolt Torque for Standard bolts *						
"A"	GRADE 2		GRADE 5		GRADE 8	
	lb-ft	(N.m)	lb-ft	(N.m)	lb-ft	(N.m)
1/4"	6	(8)	9	(12)	12	(16)
5/16"	10	(13)	18	(25)	25	(35)
3/8"	20	(27)	30	(40)	45	(60)
7/16"	30	(40)	50	(70)	80	(110)
1/2"	45	(60)	75	(100)	115	(155)
9/16"	70	(95)	115	(155)	165	(220)
5/8"	95	(130)	150	(200)	225	(300)
3/4"	165	(225)	290	(390)	400	(540)
7/8"	170	(230)	420	(570)	650	(880)
1"	225	(300)	630	(850)	970	(1310)

Bolt Torque for Metric bolts *						
"A"	CLASS 8.8		CLASS 9.8		CLASS 10.9	
	lb-ft	(N.m)	lb-ft	(N.m)	lb-ft	(N.m)
6	9	(13)	10	(14)	13	(17)
7	15	(21)	18	(24)	21	(29)
8	23	(31)	25	(34)	31	(42)
10	45	(61)	50	(68)	61	(83)
12	78	(106)	88	(118)	106	(144)
14	125	(169)	140	(189)	170	(230)
16	194	(263)	216	(293)	263	(357)
18	268	(363)	--	--	364	(493)
20	378	(513)	--	--	515	(689)
22	516	(699)	--	--	702	(952)
24	654	(886)	--	--	890	(1206)



AXLE AND HITCH ASSEMBLY



ITEM	PART #	DESCRIPTION	QTY
1	00492	WASHER, FLAT, .75	2
2	00523	BOLT, .375NC X 1.25 HEX HEAD GR. 5	2
3	00907	BOLT, .375NC X 1.00 HEX HEAD GR.5	2
4	00914	BOLT, .375 NC X 1.50 HEX HEAD GR.5	1
5	00967	BOLT, .50NC X 1.25 HEX HEAD GR.5	2
6	01235	BOLT .75NC X 2.00 HEX HEAD GR.5	2
7	01336	BOLT, .625NC X 5.00 HEX HEAD GR.5	2
8	01338	BOLT, .50 NC X 4.50 HEX HEAD GR.5	1
9	02178	NUT, .50NC LOCK, NYLON INSERT	3
10	02434	BOLT, .625NC X 4.50 HEX HEAD GR.5	2
11	02587	NUT, .625 NC LOCK, NYLON INSERT	4
12	02592	NUT, .375NC LOCK, NYLON INSERT	7
13	02961	NUT, .75NC LOCK, NYLON INSERT	7
14	04222	BOLT .75NC X 3.00 HEX HEAD GR.8	4
15	05047	BOLT, .75NC X 2.50 HEX HEAD GR 5	1
16	05328	BALL LOCK PIN	1

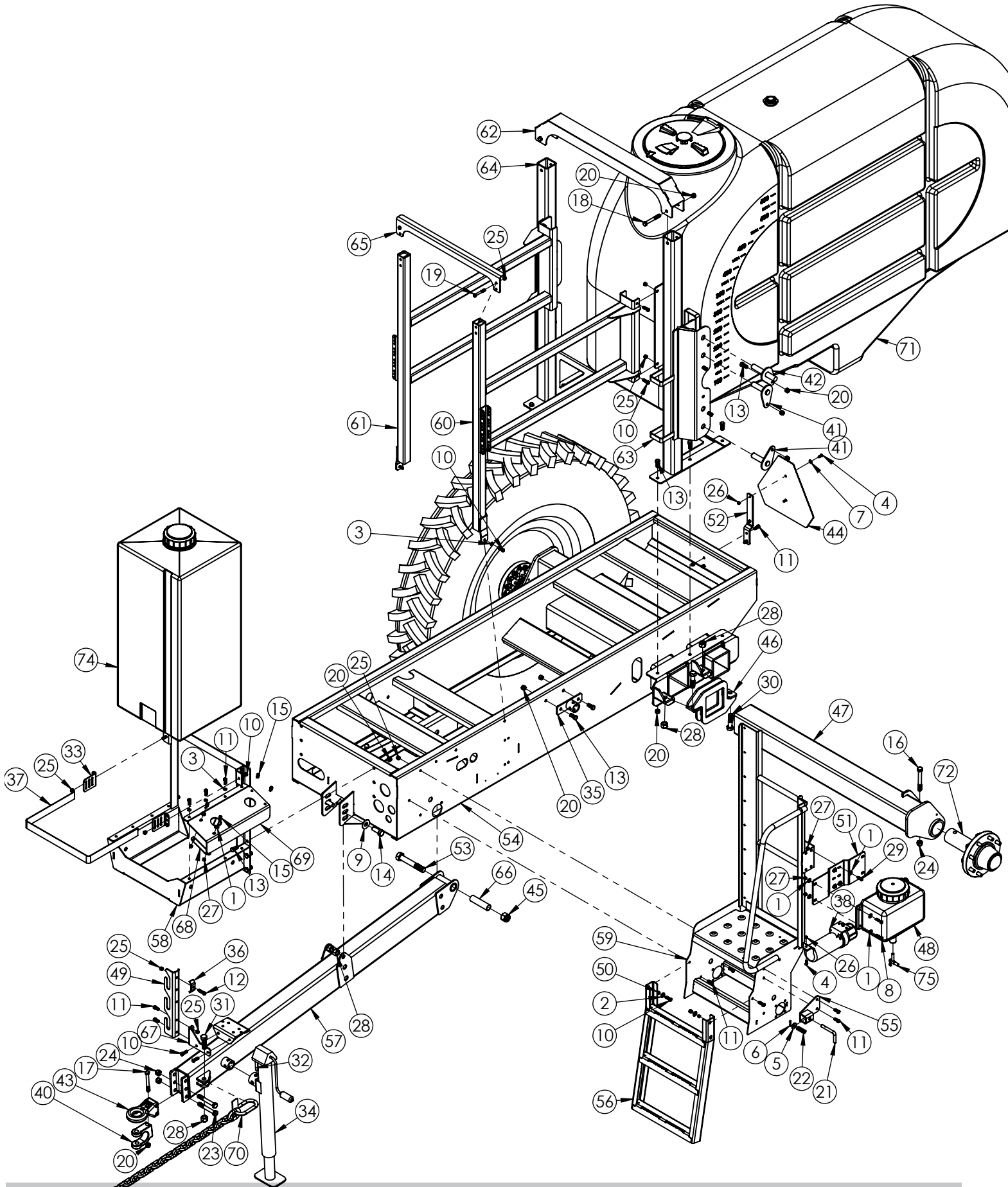
Please order replacement parts by PART NO. and DESCRIPTION

ITEM	PART #	DESCRIPTION	QTY
17	07805	JACK, 2000#, 10" SIDEWIND	1
18	07966-76	JACK STORAGE MOUNT	1
19	09218-95	HOSE KEEPER, 2 HOSE	1
20	11840-30	CASTING- MOUNT, HITCH	1
21	11952-30	HITCH-PINTLE BASE, CAT 1	1
22	12477	NUT, 1"-8 UNC LOCK, NYLON INSERT	1
23	12762-76	5 X 5 AXLE CLAMP	2
24	12763-76	5" AXLE INSERT F/ 60-120 SPACING	2
25	12820-76	HOSE HOLDER	1
26	17445	BOLT 1.00-8UNC X 6.50 HEX HEAD GR.8	1
27	17591-76	600 GALLON PULL TYPE FRAME	1
28	17601-76	TONGUE F/ 600 GAL PULL TYPE	1
29	17614-95	TONGUE BUSHING F/ 600 PULL TYPE	1
30	17615-76	HOSE HOLDER MOUNT	1
31	17653	SAFETY CHAIN 20,200 lbs	1
32	5891-30	HUB ASSEMBLY 50'S SPRAYER 8-BOLT	2

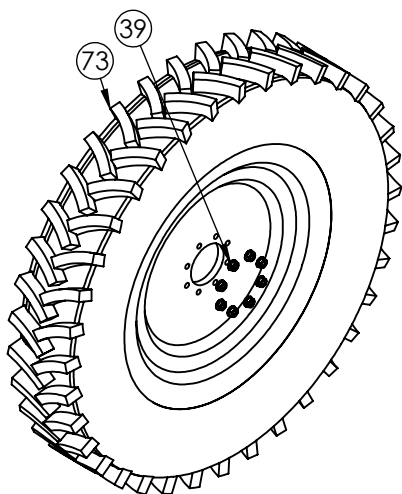
Please order replacement parts by PART NO. and DESCRIPTION

Replacement Parts

600 GALLON ASSEMBLY



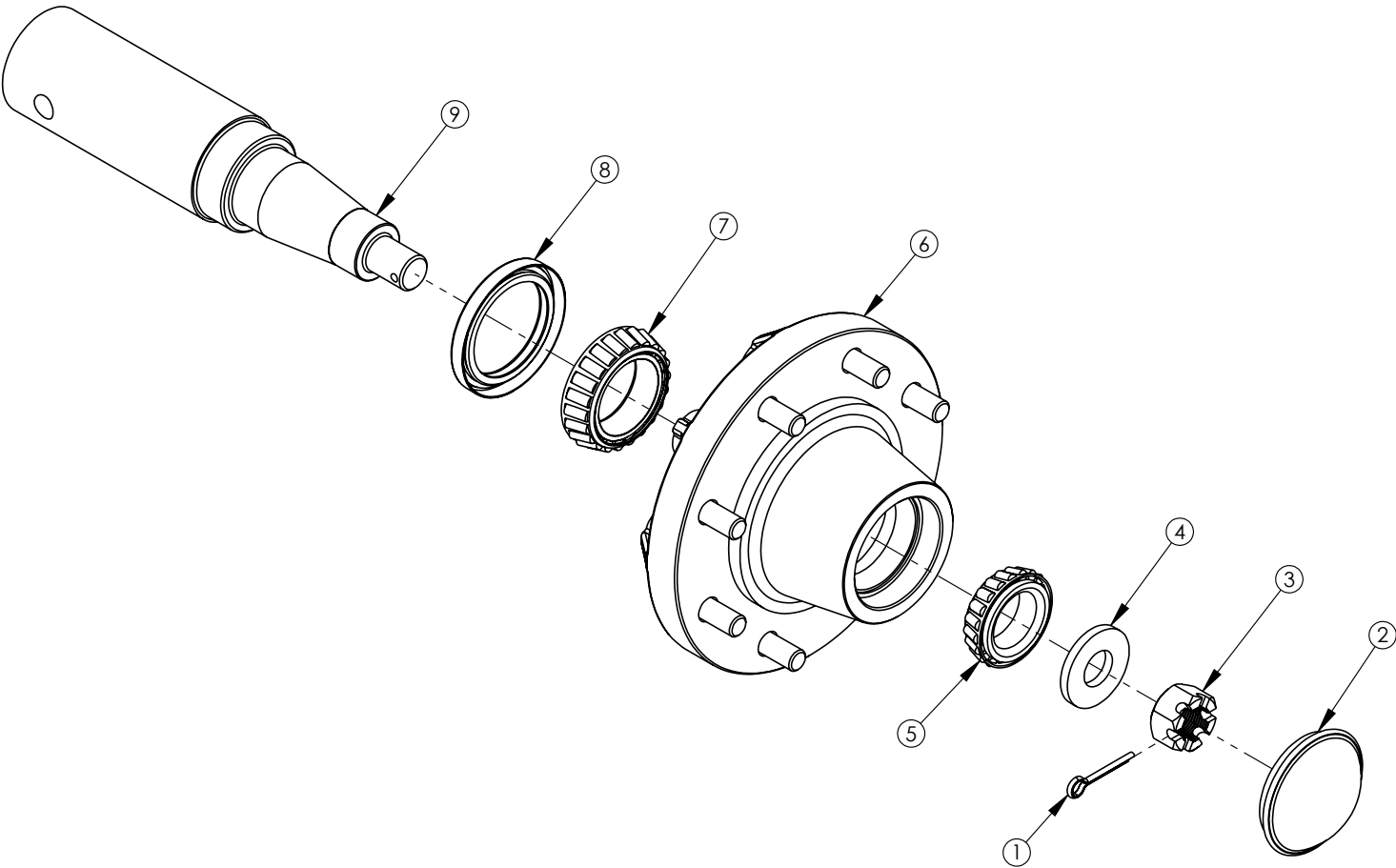
ITEM	PART#	DESCRIPTION	QTY
1	00004	WASHER, .313 FLAT	14
2	00059	WASHER, .375 FLAT	3
3	00060	WASHER, .375 LOCK	6
4	00068	BOLT, .25NC X 0.75 GR.5 HEX HEAD	4
5	00085	WASHER, .50 FLAT	1
6	00185	COTTER PIN	1
7	00214	WASHER, .25 FLAT	2
8	00372	BOLT .313NC X 1.50 GR5 HEX HEAD	4
9	00492	WASHER, .75 FLAT	2
10	00523	BOLT, .375NC X 1.25 HEX HEAD GR. 5	12
11	00907	BOLT, .375NC X 1.00 HEX HEAD GR.5	15
12	00914	BOLT, .375 NC X 1.50 HEX HEAD GR.5	1
13	00967	BOLT, .50NC X 1.25 HEX HEAD GR.5	20
14	01235	BOLT .75NC X 2.00 HEX HEAD GR.5	2
15	01263		4
16	01336	BOLT, .625NC X 5.00 HEX HEAD GR.5	2
17	01338	BOLT, .50 NC X 4.50 HEX HEAD GR.5	1
18	01896	BOLT, .50 NC X 4.00 HEX HEAD GR.5	2
19	02166	BOLT .375NC X 2.75 HEX HEAD GR.5	2
20	02178	NUT, .50NC LOCK NYLON INSERT	23
21	02187-95	ROD, LOCK PIN	1
22	02208	SPRING, COMPRESSION, 2"	1
23	02434	BOLT, .625NC X 4.50 HEX HEAD GR.5	2
24	02587	NUT, .625 NC LOCK NYLON INSERT	4
Please order replacement parts by PART NO. and DESCRIPTION			



ITEM	PART#	DESCRIPTION	QTY
25	02592	NUT, .375NC LOCK NYLON INSERT	24
26	02772	NUT, .25NC LOCK NYLON INSERT	4
27	02802	NUT, .313 NC LOCK NYLON INSERT	12
28	02961	NUT, .75NC LOCK NYLON INSERT	7
29	02990	BOLT, .313 NC X 1.00 HEX HEAD GR.5	4
30	04222	BOLT .75NC X 3.00 HEX HEAD GR.8	4
31	05047	BOLT, .75NC X 2.50 HEX HEAD GR.5	1
32	05328	BALL LOCK PIN	1
Please order replacement parts by PART NO. and DESCRIPTION			

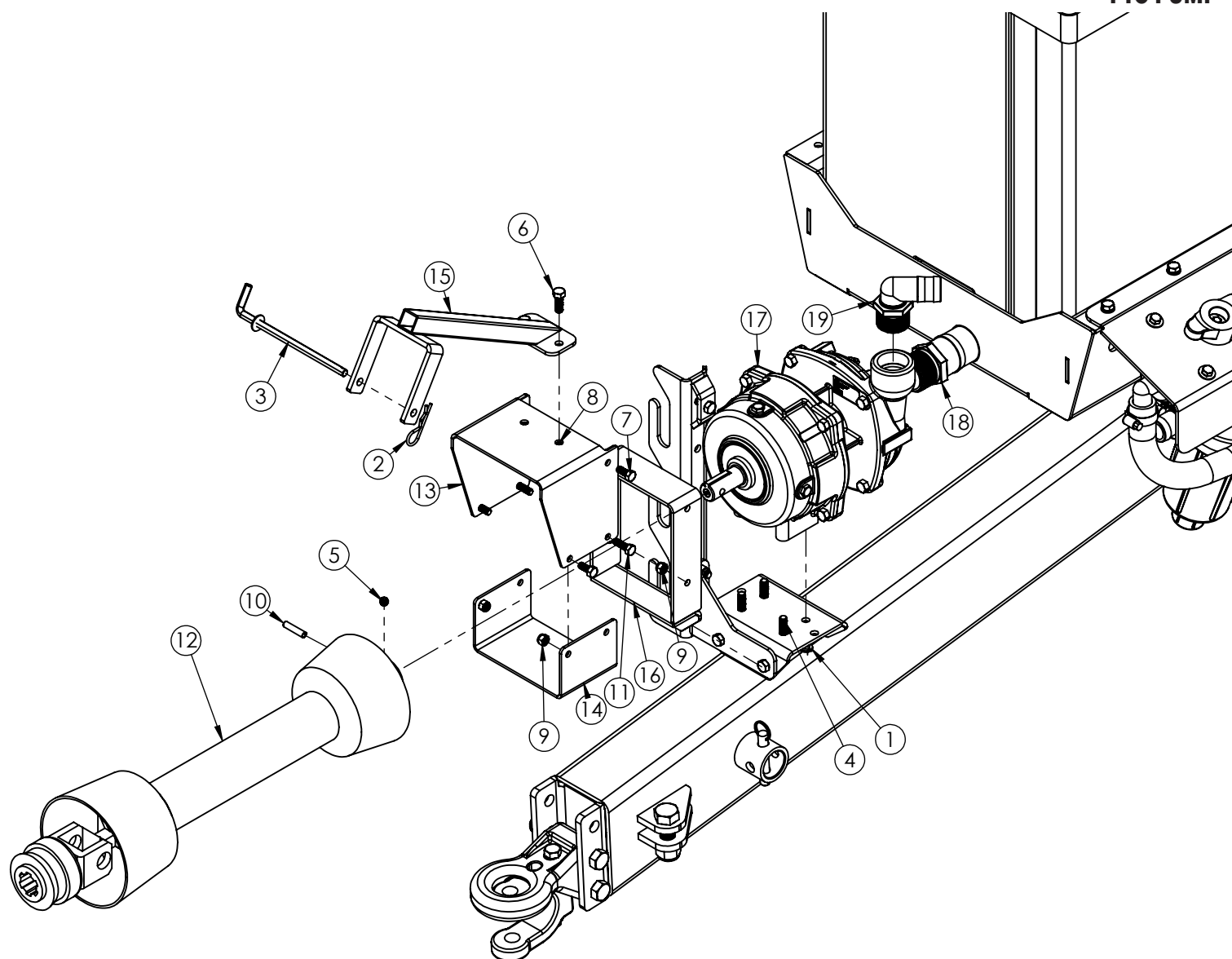
ITEM	PART#	DESCRIPTION	QTY
33	05785-95	PLATE, STRAP ANCHOR	2
34	07805	JACK, 2000#, 10" SIDEWIND	1
35	07966-76	JACK STORAGE MOUNT	1
36	09218-95	HOSE KEEPER, 2 HOSE	1
37	09820	STRAP NYLON 1.75 X 60	1
38	10241	CANISTER	1
39	10971	5/8" UNF FLANGED WHEEL NUT	16
40	11840-30	CASTING- MOUNT, HITCH	1
41	11858-95	HEIGHT ADJUST LOCK PIN	4
42	11859-95	HEIGHT ADJUST LOCK PIN	2
43	11952-30	HITCH-PINTLE BASE, CAT 1	1
44	12126	SMV SIGN	1
45	12477	NUT, 1"-8 UNC LOCK NYLON INSERT	1
46	12762-76	5 X 5 AXLE CLAMP	2
47	12763-76	5" AXLE INSERT F/ 60-120 SPACING	2
48	12793	EYE WASH TANK WITH LID	1
-	PL5A	REPLACEMENT LID	-
49	12820-76	HOSE HOLDER	1
50	13668-95	BUSHING F/ LADDER	2
51	14471-76	2.5 GAL. EYE WASH TANK BRACKET	1
52	14952-76	SMV HOLDER	1
53	17445	BOLT, 1.00-8UNC X 6.50 HEX HEAD GR.8	1
54	17591-76	600 GALLON PULL TYPE FRAME	1
55	17593-76	LATCH BRACKET	1
56	17600-76	LADDER	1
57	17601-76	TONGUE F/ 600 GAL PULL TYPE	1
58	17603-76	TANK MOUNT 55 GAL	1
59	17604-76	PLATFORM	1
60	17605-76	TANK SIDE 600 GAL LEFT	1
61	17606-76	TANK SIDE 600 GAL RIGHT	1
62	17607-76	BOOM MOUNT CAP	1
63	17608-76	BOOM MOUNT LEFT	1
64	17609-76	BOOM MOUNT RIGHT	1
65	17613-76	TOP SIDE CONNECTOR	1
66	17614-95	TONGUE BUSHING F/ 600 PULL TYPE	1
67	17615-76	HOSE HOLDER MOUNT	1
68	17616-76	VALVE MOUNT	2
69	17621-76	VALVE MOUNT F/ 600 GAL PULL TYPE	1
70	17653	SAFETY CHAIN 20,200 lbs	1
71	35932	TANK POLY 600G YELLOW F/PULL TYPE	1
-	5470R	REPLACEMENT LID	-
72	5891-30	HUB ASSEMBLY SPRAYER 8-BOLT	2
73	9446019-15	WHEEL 38" X 10A, 8 BOLT	2
74	P55R	TANK 55 GAL POLY RECT YELLOW	1
-	PL5A	REPLACEMENT LID	-
75	PL2S	SPOUT, 51MM F/2.5 GAL	1
Please order replacement parts by PART NO. and DESCRIPTION			

HUB ASSEMBLY



ITEM	PART#	DESCRIPTION	QTY
-	5891-30	HUB ASSEMBLY SPRAYER 8-BOLT	1
1	00191	3/16" x 1-1/2" COTTER PIN	1
2	01933	HUB CAP F/ 608 & 808 HUBS	1
3	01934	NUT 1.00NF HEX SLOTTED	1
4	01936	Running Gear Spindle Washer	1
5	01937	OUTER CONE BEARING	1
6	01941	HUB F/ 450 & 550 GEAR	1
-	01938	OUTER CUP	1
-	01943	INNER CUP	1
-	10151	STUD BOLT	8
7	01942	INNER CONE BEARING	1
8	01944	SEAL OIL F/ 808 & 680 HUB	1
9	12814	SPINDLE F/ 8-BOLT	1
Please order replacement parts by PART NO. and DESCRIPTION			

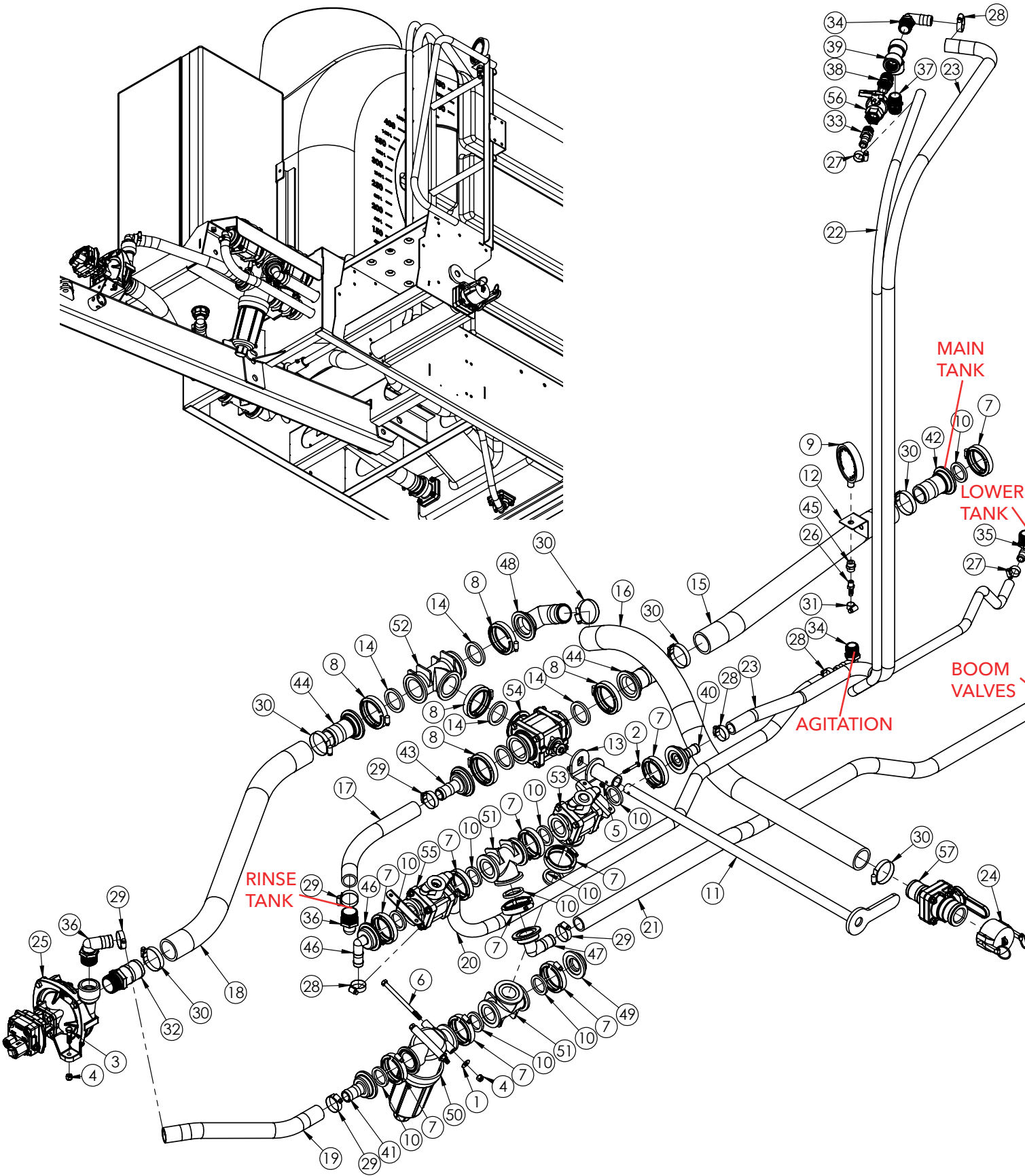
PTO PUMP

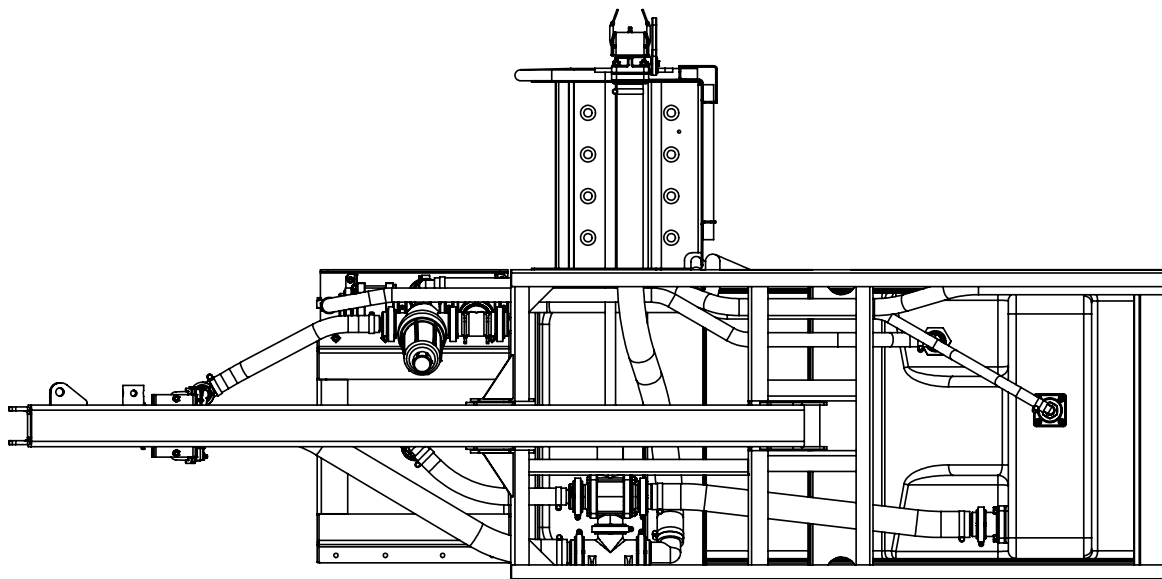


ITEM	PART #	DESCRIPTION	QTY
1	00060	.375 LOCKWASHER	4
2	00182	HAIR PIN, .120 WIRE X 2.375	1
3	00183	PIN 3/8 X 6.25	1
4	00523	BOLT, .375NC X 1.25 HEX HEAD GR. 5	4
5	00789	SET SCREW .375NC X .375 SOCKET HEAD	1
6	00907	BOLT, .375NC X 1.00 HEX HEAD GR.5	2
7	01263	BOLT, .313 NC X .75 GR. 5	4
8	02592	NUT, .375NC NYLON LOCK	2
9	02802	NUT, .313 NC NYLON LOCK	6
10	02849	ROLL PIN, .31 X 1.38	1
Please order replacement parts by PART NO. and DESCRIPTION			

ITEM	PART #	DESCRIPTION	QTY
11	02990	BOLT, .313 NC X 1.00 GR. 5	2
12	03774	26" PTO SHAFT 540	1
-	03874	26" PTO SHAFT 1000	-
13	17619-76	PTO SHIELD	1
14	17620-76	PTO SHIELD LOWER	1
15	17622-76	PTO REST	1
16	17623-76	PTO SHIELD F/ ROLLER PUMP	1
17	C9016 540	HYPRO CENTRIFUGAL PUMP 540RPM	1
-	C9018 1000	HYPRO CENTRIFUGAL PUMP 1000RPM	-
18	BA112 200	FTG STRAIGHT 1.50" MPT X 2" HOSE BARB	1
19	BEL114	FTG, ELBOW, 1.25" MPT X 1.25" HOSE BARB, GFP	1
Please order replacement parts by PART NO. and DESCRIPTION			

PLUMBING/ HYDRAULIC PUMP





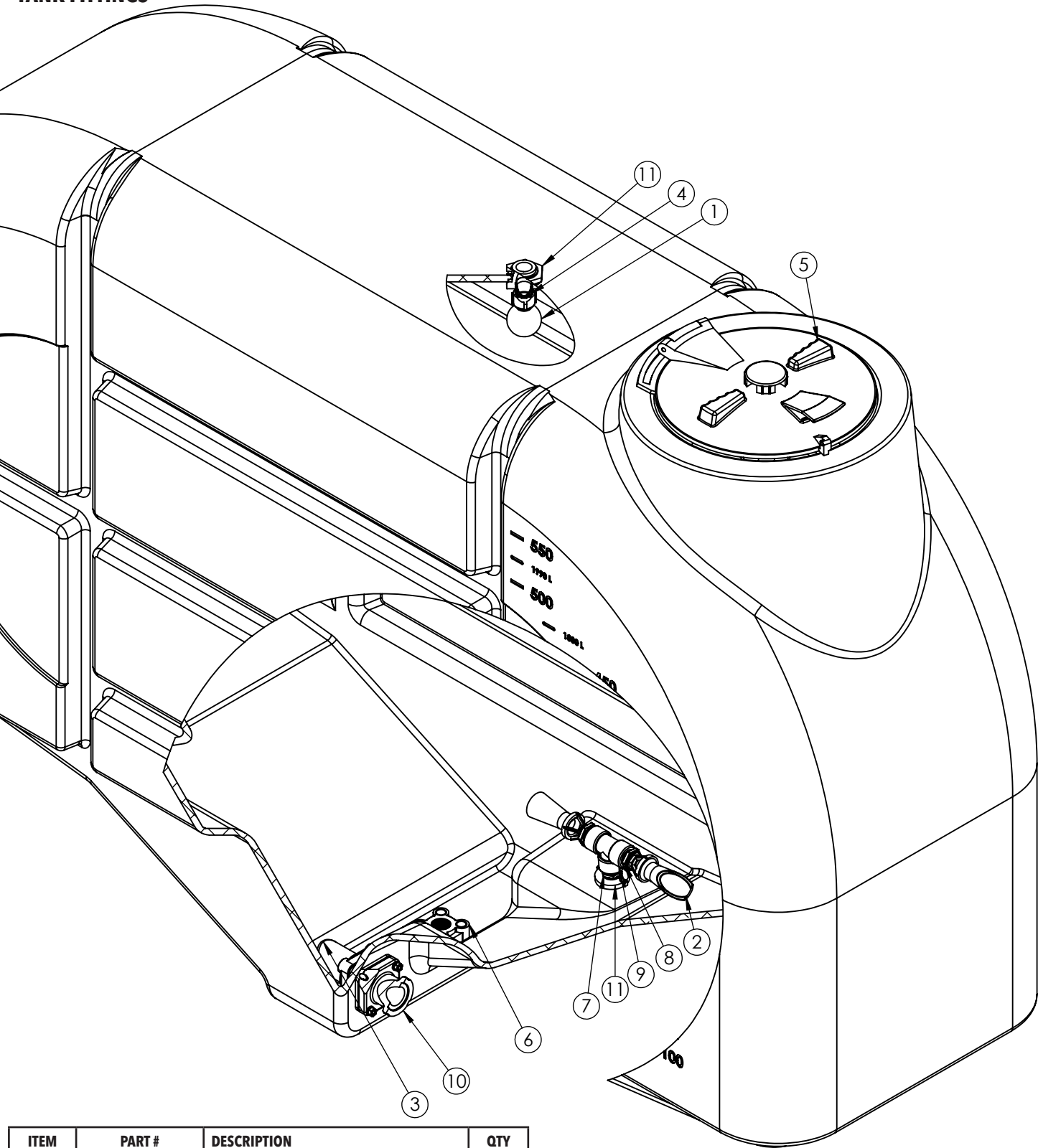
ITEM	PART#	DESCRIPTION	QTY
1	00059	WASHER, FLAT .375	2
2	00618	BOLT, .25 NC X 2.00 HEX HEAD GR.5	1
3	00914	BOLT, .375 NC X 1.50 HEX HEAD GR.5	2
4	02592	NUT, .375NC LOCK NYLON INSERT	4
5	02772	NUT, .25NC LOCK NYLON INSERT	1
6	05032	BOLT .375NC X 5.50 GR5 HEX	2
7	09939	CLAMP, 2", F/ FLANGE	10
8	09940	CLAMP, 2", F/ FLANGE FULL PORT	5
9	104GB	100 LB BRASS PRESSURE GAUGE - 4"	1
10	112G	GASKET, 1.50" X .25"	10
11	12744-15	VALVE HANDLE ASSEMBLY YELLOW	1
12	17421	GAUGE MOUNTING PLATE	1
13	17592	VALVE SHAFT F/ 220 VALVE	1
14	200G	GASKET, 2" X .25"	5
15	S2020	HOSE 2" WIRE SUCTION	3'
16	S2020	HOSE 2" WIRE SUCTION	4'
17	1140RB	HOSE 1.25" EPDM RUBBER	2'
18	S2020	HOSE 2" WIRE SUCTION	3'
19	1140RB	HOSE 1.25" EPDM RUBBER	2'
20	1010RB	HOSE 1.00" EPDM RUBBER	6'
21	1140RB	HOSE 1.25" EPDM RUBBER	17'
22	340	HOSE .75" CLEAR VINYL	11'
23	1010RB	HOSE 1.00" EPDM RUBBER	10'
24	634B2020	QUICK COUPLER, 2" CAP	1
25	C9303HM1	HYPRO HYDRAULIC PUMP	1
-	17507	ACE HYDRAULIC PUMP	-
-	11277	HOSE HYDRAULIC .50 X 96"	-
26	A1438	FTG STR .25" MPT X .375 HB POLY	1
27	B12H	CLAMP, GEAR, SS, .75" HOSE	2
28	B20H	CLAMP, GEAR, SS, F/1.0" HOSE	4

Please order replacement parts by PART NO. and DESCRIPTION

ITEM	PART#	DESCRIPTION	QTY
29	B24H	CLAMP, GEAR, SS, F/1.25" HOSE	5
30	B44H	CLAMP, GEAR, SS, F/2" HOSE	6
31	B6H	CLAMP, GEAR, SS, .375" HOSE	1
32	BA112 200	FTG STRAIGHT 1.50" MPT X 2" HOSE BARB	1
33	BA3434	FTG, STRAIGHT, .75" MPT X .75" HOSE BARB	1
34	BEL1010	FTG, ELBOW, 1" MPT X 1" HOSE BARB	2
35	BEL1034	FTG, ELBOW, 1" MPT X .75" HOSE BARB	1
36	BEL114	FTG, ELBOW, 1.25" MPT X 1.25" HOSE BARB	2
37	BM1000	FTG, NIPPLE, 1" MPT	1
38	BM1034	FTG, REDUCER NIP, 1" MPT X .75" MPT	1
39	BTT100	FTG, TEE, 1" FPT	1
40	FA200 100HB	FTG STRAIGHT 2" FLANGE X 1" HOSE BARB	1
41	FA200 125HB	FTG, STRAIGHT, 2" FLANGE X 1.25" HOSE BARB	1
42	FA200 200HB	FTG, STRAIGHT, 2" FLANGE X 2" HOSE BARB	1
43	FA220 125HB	FTG, STRAIGHT, 2" FP FLANGE X 1.25" HOSE BARB	1
44	FA220 200HB	FTG, STRAIGHT, 2" FLANGE X 2" HOSE BARB FP	2
45	FC1400	COUPLING .25" FPT POLY	1
46	FEL200 100HB	FTG, ELBOW, 2" FLANGE X 1.00" HOSE BARB	1
47	FEL200 125HB	FTG, ELBOW, 2" FLANGE X 1.25" HOSE BARB	1
48	FEL220 200HB	FTG, ELBOW, 2" FP FLANGE X 2" HOSE BARB	1
49	FF200	FTG, PLUG, 2" FLANGE	1
50	FLST 150 50	FILTER ASSEMBLY 2" FLANGE	1
51	FT200	FTG, TEE, 2" FLANGE (3X)	2
52	FT220	FTG, TEE, 2" FLANGE (3X) FP.	1
53	FV200BLCF	VALVE, BALL, 2" 3-WAY FLANGE, BOTTOM LOAD	1
54	FV220BLCF	VALVE BALL 2" FP 3-WAY FLANGE	1
55	MV200CF	VALVE, BALL, MANIFOLD, 2" FLANGE X 2" FLANGE	1
56	UV075FP	BALL VALVE, .75" SINGLE UNION	1
57	VSFHB 200	VALVE BALL 2" COUPLER X 2" HB	1

Please order replacement parts by PART NO. and DESCRIPTION

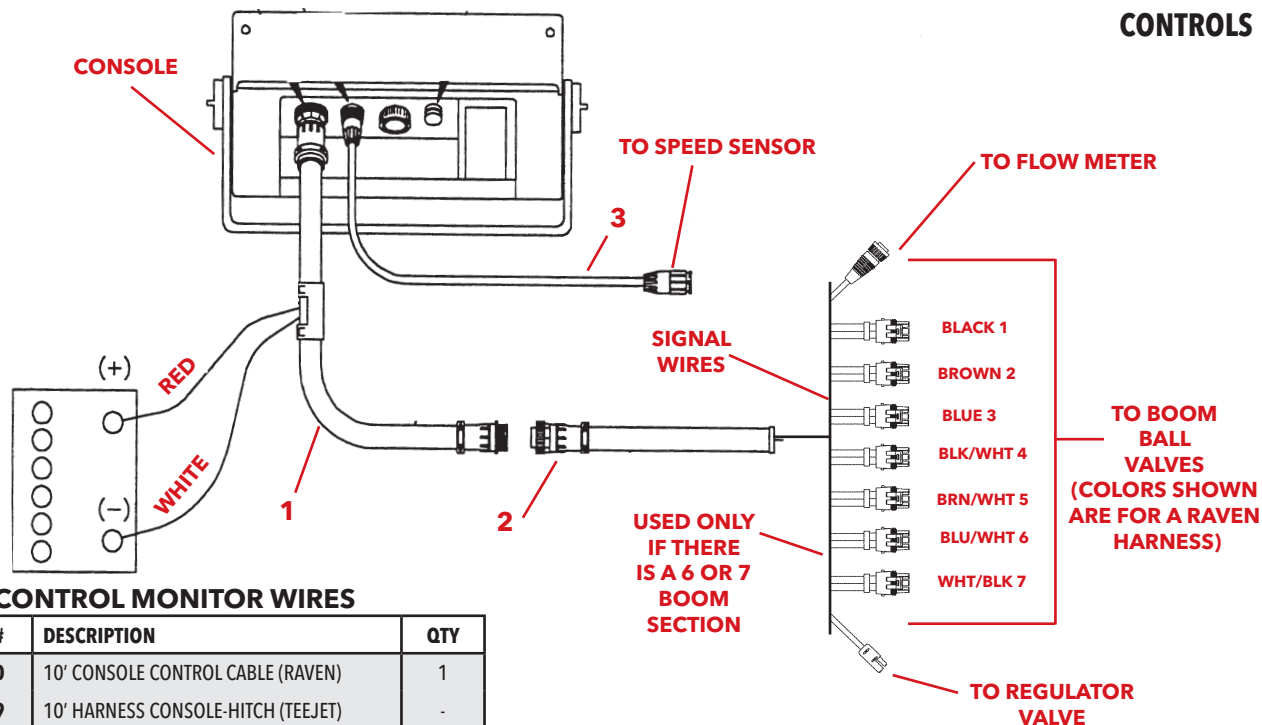
TANK FITTINGS



ITEM	PART #	DESCRIPTION	QTY
1	03813	SPRAY BALL	1
2	09941	AGITATOR JET HV .75" MPT	2
3	10267	2" ELBOW SIPHON FITTING	1
4	11067	FTG NIPPLE 1" MPT F/ SPRAY BALLS	1
5	5470R	TANK CAP	1
6	BF100BDS	FTG TANK 1" BOTTOM DRAIN	1
Please order replacement parts by PART NO. and DESCRIPTION			

ITEM	PART #	DESCRIPTION	QTY
7	BM1000	FTG, NIPPLE, 1" MPT, GFP	1
8	BRB1034	FTG, REDUCER BSHG, 1" MPT X .75" FPT, GFP	2
9	BTT100	FTG, TEE, 1" FPT, GFP	1
10	FTF200	2" FLANGE TANK FITTING	1
11	P100DA	FTG, 1", F/POLY TANK (1.75" HOLE)	2
Please order replacement parts by PART NO. and DESCRIPTION			

CONTROLS



CONTROL MONITOR WIRES

ITEM	PART #	DESCRIPTION	QTY
1	10960	10' CONSOLE CONTROL CABLE (RAVEN)	1
-	10799	10' HARNESS CONSOLE-HITCH (TEEJET)	-
-	09460	HARNESS POWER CABLE (TEEJET)	-
2	12851	24' FLOW CONTROL CABLE (RAVEN)	1
-	17578	25' FLOW CONTROL CABLE (TEEJET)	-

Please order replacement parts by PART NO. and DESCRIPTION

1 (SHOWN HERE IN A BANK OF FIVE)

ITEM	PART #	DESCRIPTION	QTY
3	14071	SPEED SENSOR ASTRO II GPS (RAVEN)	-
-	17552	SPEED SENSOR ASTRO II GPS (TEEJET)	-

Please order replacement parts by PART NO. and DESCRIPTION



CONTROL MONITOR SYSTEM

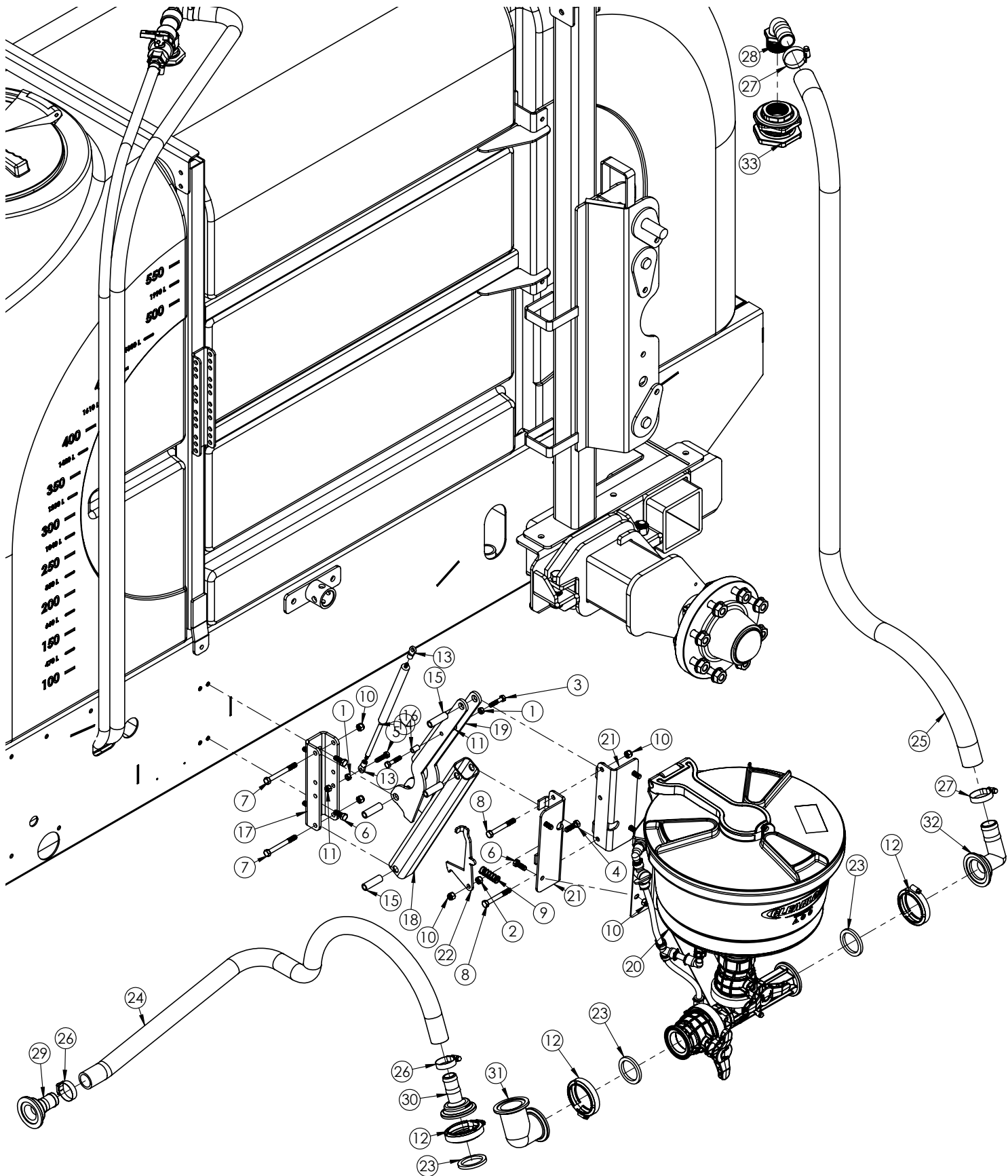
ITEM	PART #	DESCRIPTION	QTY
1	16661	BALL VALVE	1
2	10826	RAVEN 450 CONSOLE (5 SECTION- SHOWN)	-
-	10802	TEEJET 845-E CONSOLE (5 SECTION)	-
3	12780	RAVEN FLOW METER	1
-	09458	TEEJET FLOW METER	-
4	10311	RAVEN 1" REGULATING BUTTERFLY VALVE	1
-	17577	TEEJET 1" REGULATING VALVE	-
5	09859	TEEJET CLAMP AND O-RING	-
6	09858	TEEJET O-RING (NOT SHOWN)	-

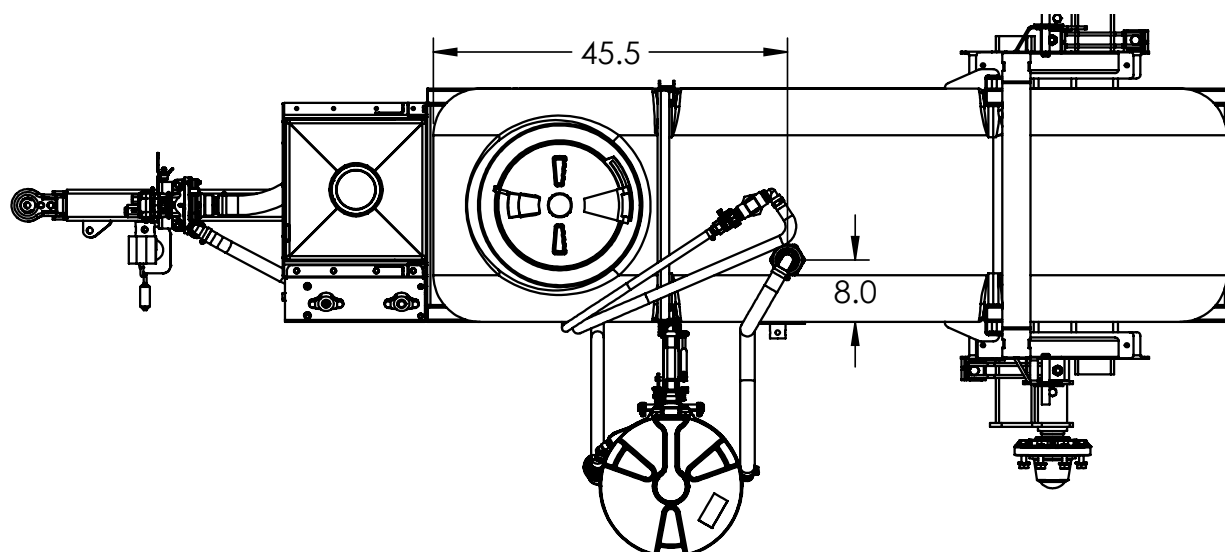
Please order replacement parts by PART NO. and DESCRIPTION

ITEM	PART #	DESCRIPTION	QTY
7	FA200 100	2" FLANGE X 1" FLANGE FITTING	-
8	09856	S.S. CLIP FOR FITTING	-
9	09857	OUTLET STRAIGHT FITTING	-
-	09855	O-RING OUTLET FITTING (NOT SHOWN)	-

Please order replacement parts by PART NO. and DESCRIPTION

CHEMICAL EDUCTOR





1. Release lever to lower unit for filling.
2. After filling, lift unit up to transport position before use.

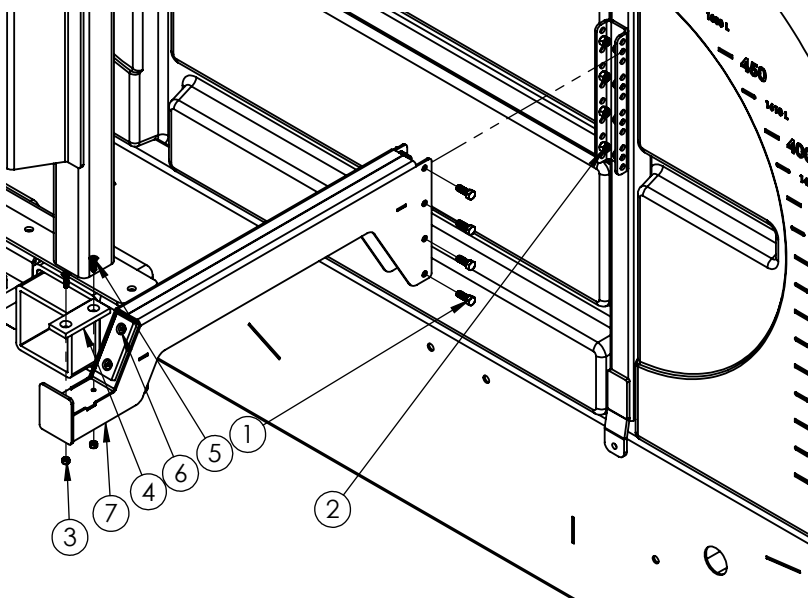
Plumbing Instruction

Locate existing Cap #49 and remove it. Attach #29 straight flange fitting (as shown).

ITEM	PART#	DESCRIPTION	QTY
1	00007	NUT, .313NC HEX	2
2	00061	NUT, .375 HEX	1
3	00372	BOLT .313NC X 1.50 HEX HEAD GR.5	2
4	00523	BOLT, .375NC X 1.25 HEX HEAD GR. 5	1
5	00685	BOLT, .313 NC X 1.25 HEX HEAD GR.5	1
6	00907	BOLT, .375NC X 1.00 HEX HEAD GR.5	8
7	01903	BOLT, .375NC X 3.50 HEX HEAD GR. 5	2
8	02207	BOLT, .375 NC X 3.00 HEX HEAD GR.5	2
9	02208	SPRING, COMPRESSION, 2"	1
10	02592	NUT, .375 NC NYLON LOCK	13
11	02802	NUT, .313 NC NYLON LOCK	3
12	09940	CLAMP, 2", F/ FLANGE FITTING FULL PORT	3
13	11032	SHOCK ROD END	2
14	11928	STRUT, GAS 80#	1
15	12917-95	SPACER	4
16	12918-95	LATCH LEVER BUSHING	1
17	12926-76	BASE MOUNT	1
18	12927-76	TUBE BOTTOM LINK	1
19	12928-76	TOP LINK	1
20	14607	CHEMICAL EDUCTOR 7 GAL	1
21	17617-76	CHEMICAL EDUCTOR MOUNT	2
22	17618-76	CHEMICAL EDUCTOR LATCH 600	1
23	200G	GASKET, 2" X .25"	3
24	1140RB	EDUCTOR PRESSURE 1.25" HOSE	1
25	1120RB	AFTER EDUCTOR 1.50" HOSE	1
26	B24H	CLAMP, GEAR, SS, F/1.25" HOSE	2
27	B32H	CLAMP, GEAR, SS, F/1.50" HOSE	2
28	EL112	FTG, ELBOW, 1.50" MPT X 1.50" HOSE BARB	1
29	FA200 125HB	FTG, STRAIGHT, 2" FLANGE X 1.25" HOSE BARB	1
30	FA220 125HB	FTG, STRAIGHT, 2" FP FLANGE X 1.25" HOSE BARB	1
31	FEL220	FTG, ELBOW, 2" FP. FLANGE X 2" FP. FLANGE	1
32	FEL220 150HB	FTG, ELBOW, 2" FP. FLANGE X 1.50" HOSE BARB	1
33	P112	FTG 1.50" F/POLY TANK	1

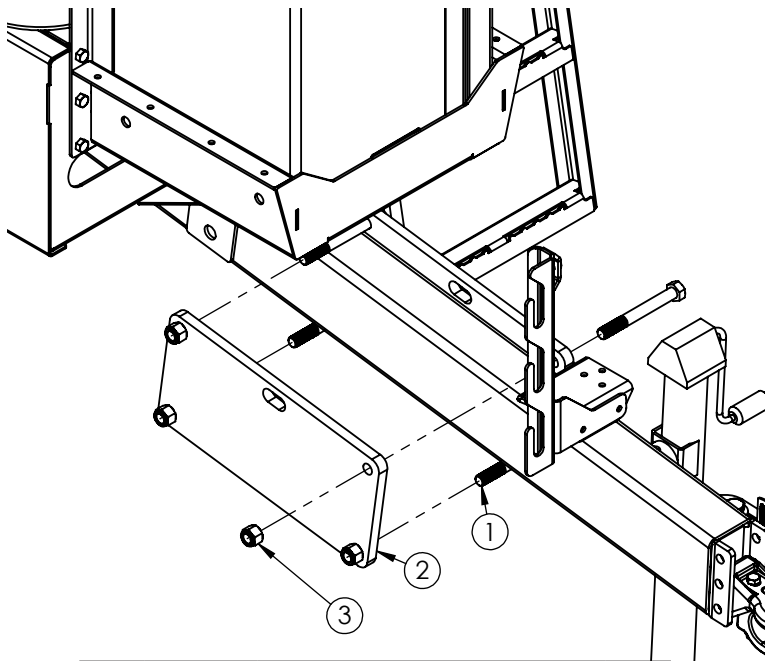
Please order replacement parts by PART NO. and DESCRIPTION

BOOM REST



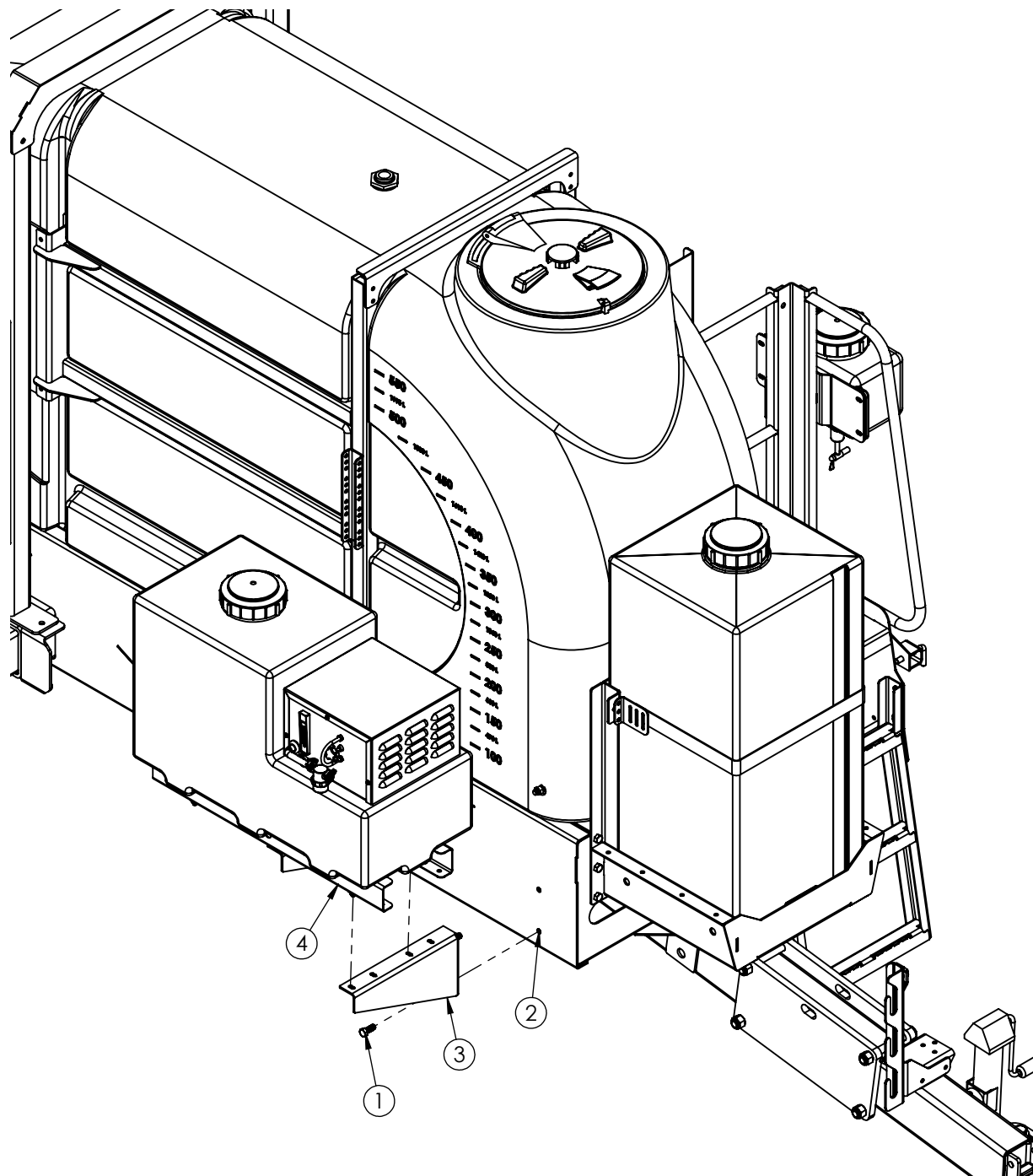
ITEM	PART#	DESCRIPTION	QTY
1	00907	BOLT, .375NC X 1.00 HEX HEAD GR.5	16
2	02592	NUT, .375NC NYLON LOCK	16
3	02772	NUT, .25NC NYLON LOCK	6
4	02946	PLATE, WEAR	4
5	07082	BOLT, .25NC X 1.00 FLAT HD TORX	6
6	12852	BOLT, .25NC X 1.50 FLAT HD TORX F- POINT	2
7	17602-76	BOOM REST F/ 600 GAL PULLTYPE	2
Please order replacement parts by PART NO. and DESCRIPTION			

X-FOLD WEIGHTS



ITEM	PART#	DESCRIPTION	QTY
1	01964	BOLT, .75NC X 7.00 HEX HEAD GR.5	4
2	02961	NUT, .75NC NYLON LOCK	4
3	17714-76	WEIGHT BAR F/ X-FOLD	2
Please order replacement parts by PART NO. and DESCRIPTION			

FOAM MARKER



ITEM	PART #	DESCRIPTION	QTY
1	00967	BOLT, .50NC X 1.25	4
2	02178	NUT, .50NC LOCK, NY. INSERT	4
3	14691-76	BRACKET F/600 GALLON	2
4	35795	FOAM MARKER HV Charcoal	1
Please order replacement parts by PART NO. and DESCRIPTION			

DEMCO SPRAYER START-UP GUIDE

1-800-543-3626

1. Choose appropriate spray tips for application rate and speed.
2. Program rate controller (refer to controller manual).
3. Read pump manual and tractor manual to be sure pump and tractor are compatible.
4. Hose hook-up
 - a. Hook up hose to tractor hydraulic priority port (for optimal pump performance, return line should dump directly into tractor hydraulic tank).
 - b. Start with low hydraulic flow (approximately 25% of max flow or 10 gpm. *Flow will be increased later).
5. For pump priming, set pressure valve to tank flush, main valve to sprayer tank and agitation valve to increase agitation. Then fill main tank with 300 gallons of fresh water.
6. Set monitor master switch to off position.
7. Switch pressure valve back to spray boom.
8. Start pump
 - a. Confirm pump is primed by checking pressure gauge.
 - b. If gauge shows 0 psi, stop pump immediately. Remove cap from bottom of filter bowl until air is removed. Replace cap and restart pump. Proceed to step 9 if gauge pressure is above 5 psi.
 - c. **DO NOT RUN PUMP DRY**
9. Adjust tractor hydraulic flow to achieve a pressure of 80 psi.
10. Set valves to spraying operation (refer to instructions on valve panel).
11. Unfold boom (see boom manual).
12. You are now ready to test run the sprayer.
13. If spraying pressure is not achieved, slowly increase tractor hydraulic flow.

Downtime caused by field breakdowns is costly and time consuming. Many breakdowns can be eliminated by periodic equipment maintenance. By spending time reviewing this checklist before seasonal spraying application time and following proper after-season care, you can save time and money later.



WARNING: To Prevent Serious Injury Or Death

- Keep hands, feet, and loose clothing away from rotating parts.
- Wear protective clothing recommended by your chemical and fertilizer manufacturer when working with chemicals.

Check Before Going To The Field :

1. NOZZLES

Check tip for excessive wear by checking for grooves in or near tip opening. Check nozzle spacing by starting at center and working outwards. Check boom for proper height.

2. HOSES

Check all hoses for worn or soft spots. Be sure all hose clamps are tightened and hoses are not kinked or pinched. Check for leakage in any lines.

3. TANK

Remove and clean agitator orifices. Check orifices for excessive wear by checking for grooves in or near orifice opening. Inspect fitting and grommets to insure they are in good condition.

4. CONTROLS

Check for leakage, plugging, or wear on all valves, fittings, etc. Clean off any build up of foreign material.

5. PUMP

Check to be sure pump turns freely.

6. FRAME

Be sure all bolts are tightened.

7. REPLACEMENT PARTS

Replace all worn or damaged parts.

After Season Care:

NOTE: It is important to wear proper safety equipment when cleaning the sprayer. See your chemical or fertilizer package for this information.

1. After spraying chemicals, run water mixed with cleaners through tank, pump and all hose hookups. If wettable powder dries out in the system, it is very difficult to put back into suspension and can cause malfunction, damage or injury.
2. When cleaned, tank should have all openings closed or covered to keep dirt from entering.
3. Pump should be flushed with soluble oil and pump ports plugged to keep out moisture and air.
4. Disassemble tips and rinse with water or cleaning solution. (Appropriate for chemical sprayed).
5. Clean tip opening with a wooden toothpick. Never use wire or hard object that could distort opening.
6. Dispose of all unused chemicals or solutions in a proper and ecologically sound manner.
7. Water rinse and dry tips before storing.

NOTE: DEMCO does not and will not make any recommendations concerning application of various chemicals or solutions. These recommendations relate to either amount or procedure of materials applied. If you have any questions regarding application of certain chemicals or solutions, contact your chemical supplier and follow chemical manufacturer recommendations.



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