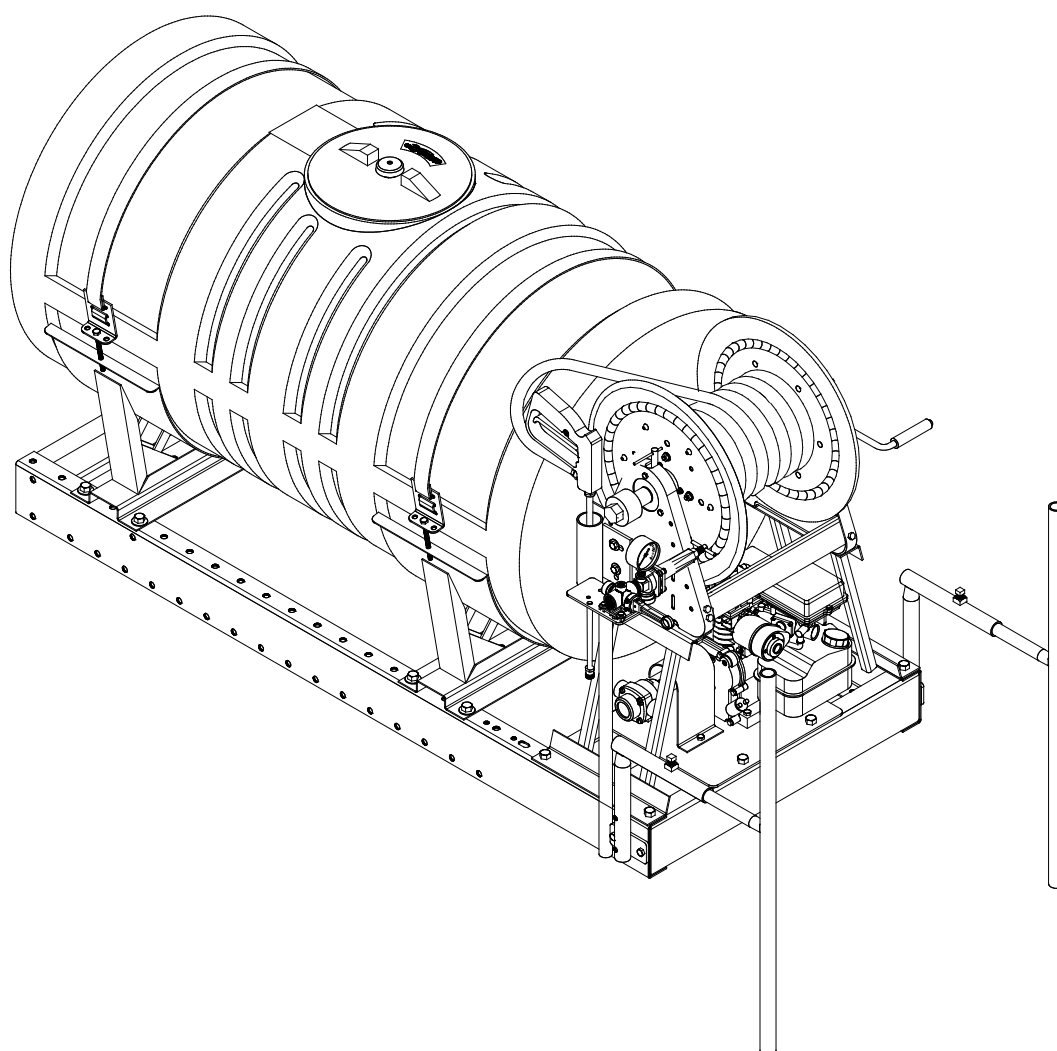




Demco

COMMUTER SPRAYER

SM110 & SM150



READ *complete manual CAREFULLY
BEFORE attempting operation.*

Doing Our Best to Provide You the Best

Thank you for purchasing a Demco sprayer. We feel you have made a wise choice and hope you are completely satisfied with your new piece of equipment. If you have any questions regarding 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.



WARNING: TO AVOID PERSONAL INJURY OR PROPERTY DAMAGE, 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 the 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.**

Table of Contents

General information.....	2
Safety, Signal Words	3
Equipment Safety Guidelines	4
Lighting and Marking.....	4
Safety Sign Locations	5
Safety Sign Care	6
Before Operation	6-7
During Operation.....	7
Following Operation	8
Highway and Transport Operations	8-9
Performing Maintenance	9
Bolt Torque	10
SM110 & SM150 Parts Breakdown and Parts List.....	11
Roller Pump Plumbing Parts Breakdown and Parts List	12-13
Electric Pump Plumbing Parts Breakdown and Parts List.....	14
Boom Mounting Parts Breakdown and Assembly	15-16
Roller Pump Parts Breakdown and Parts List.....	16
Direct-O-Valve Parts Breakdown and Parts List.....	17
3-Section Tee-Valve Parts Breakdown and Parts List	17
Notes.....	18-19
Sprayer Checklist	20

SAFETY

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

Note use of the following signal words **DANGER**, **WARNING**, and **CAUTION** with safety messages. Appropriate signal word for each 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 the 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, P.O. Box 189, 4010 320th Street, Boyden, IA 51234
ph: (712) 725-2311 or (712) 725-2302 Toll Free: 1-800-543-3626 Fax: (712) 725-2380

<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 this 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.

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 a piece of machinery. If its ability to do a job, or to do so safely is in question-**DON'T TRY IT.**



LIGHTING AND MARKING

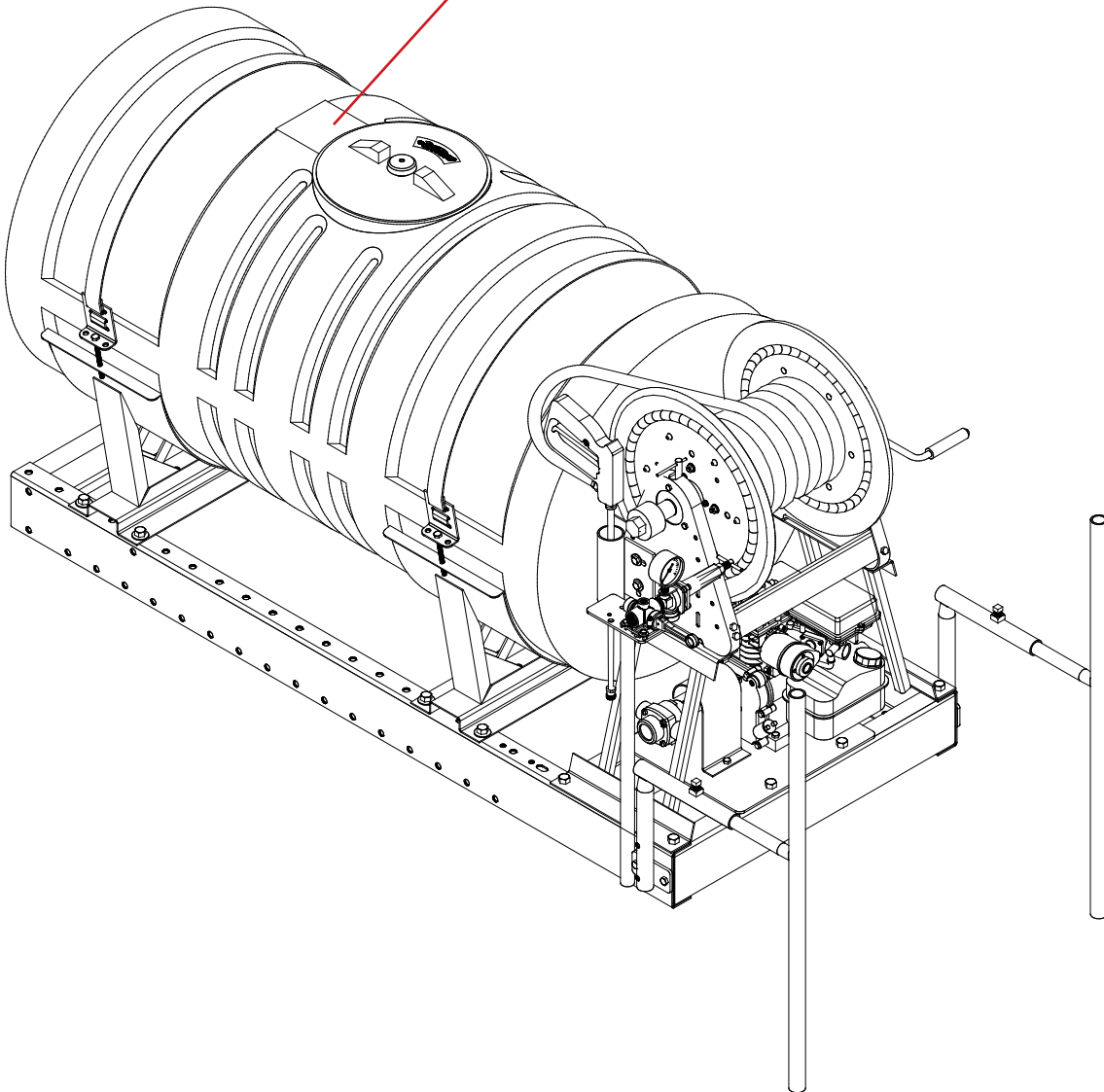
It is the responsibility of customer to know lighting and marking requirements of local highway authorities and to install and maintain sprayer to provide compliance with regulations. Add extra lights when transporting at night or during periods of limited visibility.



SAFETY SIGN LOCATIONS

Types of safety sign and locations on equipment are shown in the 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.

This decal is located near the sprayer lid. Replacement part # is AB21014.





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 decal into place.
- Air pockets can be pierced with a pin and smoothed out using piece of backing paper.



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.
- The operator may come in contact with certain materials which may require specific safety equipment relative to handling of such materials. (Examples: extremely dusty, molds, fungus, bulk fertilizers, etc.)
- 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 equipment and its attachments. Completely familiarize yourself and other operators with its operation before using.
- Use a utility vehicle equipped with Roll Over Protection System (ROPS) and fasten your seat belt prior to starting engine.
- Manufacturer does not recommend usage of a utility vehicle with ROPS removed.

- Move wheels on the utility vehicle to the widest recommended settings to increase stability.
- Do not allow anyone to stand between tongue or hitch and utility vehicle when backing up to sprayer.



DURING OPERATION

- Beware of bystanders, **PARTICULARLY CHILDREN!** Always look around to make sure that it is safe to start engine of utility vehicle or move sprayer. 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 the utility vehicle 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 utility vehicles brakes, disengage PTO, shut off engine, and **remove ignition key**.
- Be especially observant of operating area and terrain- watch for holes, rocks, or other hidden hazards. Always inspect area prior to operation.
 - DO NOT operate near edge of drop-offs or banks.
 - DO NOT operate on steep slopes as overturn may result.
 - Operate up and down (not across) intermediate slopes. Avoid sudden starts and stops.
- 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 sprayer of brush, twigs, or other materials to prevent buildup of dry combustible materials.
- Maneuver utility vehicle at safe speeds.
- Avoid overhead wires. Contact with overhead lines could cause serious injury or death.
- Avoid loose gravel, rocks, and holes; they can be dangerous for sprayer operation or movement.
- Allow for unit length when making turns.
- Do not walk or work under raised components or attachments unless securely supported.
- Keep all bystanders, pets, and livestock clear of work area.
- 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 attachments 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 utility vehicle, set brakes, disengage PTO and all power drives, shut off engine and **remove ignition key**.
- Store unit in an area away from human activity.
- Do not park equipment 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 unit.
- Make sure all parked machines are on a hard, level surface and engage all safety devices.



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. Criss cross chains under tongue and secure to draw bar cage, mounting loops, or bumper frame.
- 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 and 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 utility 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.
- Use approved accessory lighting flags and necessary warning devices to protect 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 a utility vehicle and sprayer under 20 mph (40 kph) day or night, 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 loading 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 sprayer when making turns, stopping, etc.



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.



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 utility vehicle in a closed building. Exhaust fumes may cause asphyxiation.
- Before working on this machine, stop utility 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 a 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 on page 10 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 step or platform.
- When replacing bolts refer to owners manual.
- Refer to bolt torque chart on page 10 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 sprayer.

BOLT TORQUE

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.



Torque Specifications

Bolt Torque for Standard bolts *

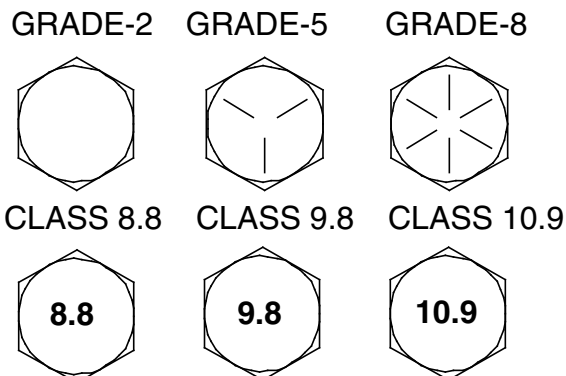
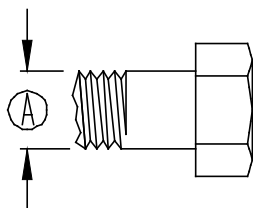
"A"	GRADE 2		GRADE 5		GRADE 8	
	lb-ft	(N.m)	lb-ft	(N.m)	lb-ft	(N.m)
1/4"	6	(8)	9	(12)	12	(16)
5/16"	10	(13)	18	(25)	25	(35)
3/8"	20	(27)	30	(40)	45	(60)
7/16"	30	(40)	50	(70)	80	(110)
1/2"	45	(60)	75	(100)	115	(155)
9/16"	70	(95)	115	(155)	165	(220)
5/8"	95	(130)	150	(200)	225	(300)
3/4"	165	(225)	290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

Bolt Torque for Metric bolts *

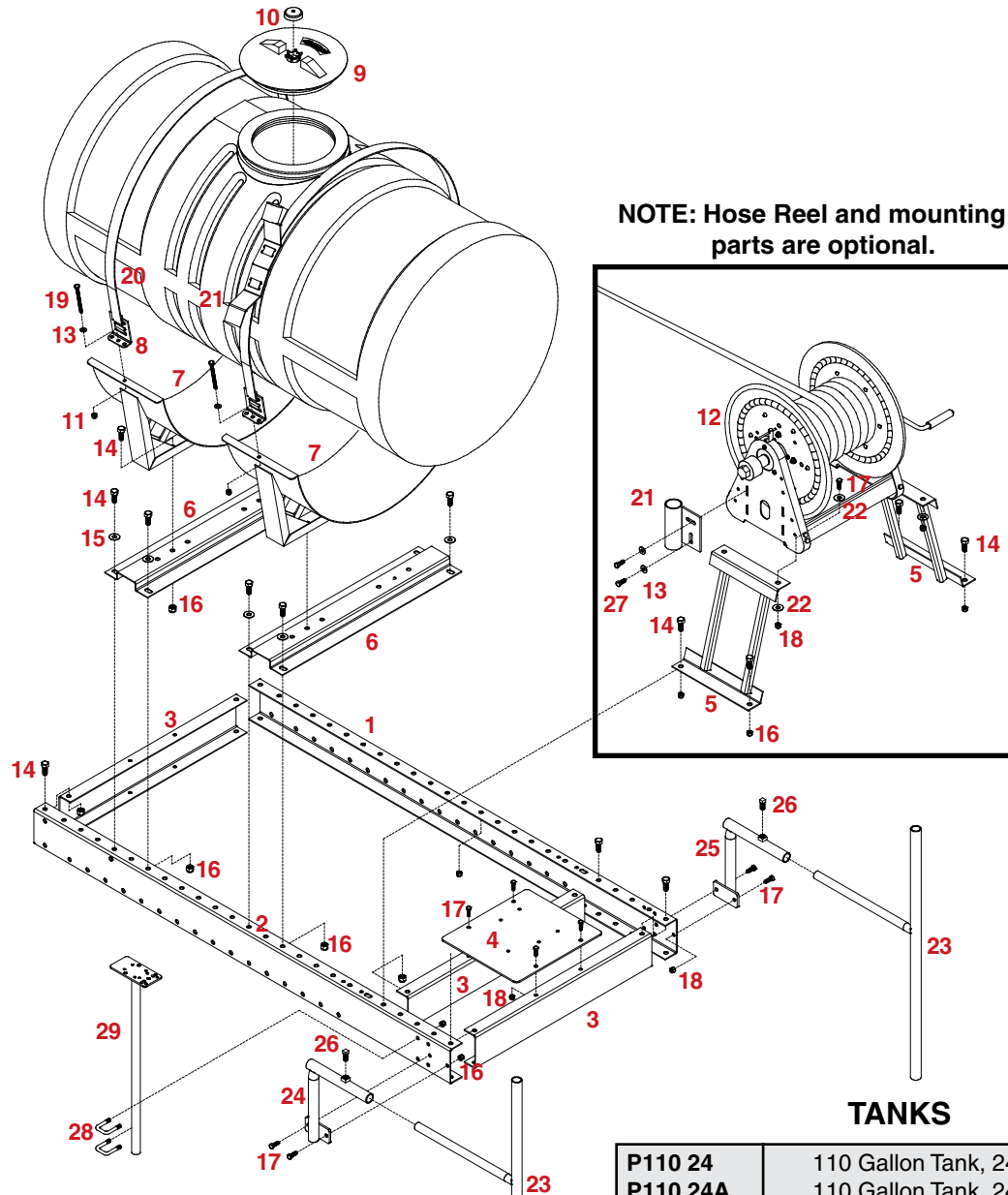
"A"	CLASS 8.8		CLASS 9.8		CLASS 10.9	
	lb-ft	(N.m)	lb-ft	(N.m)	lb-ft	(N.m)
6	9	(13)	10	(14)	13	(17)
7	15	(21)	18	(24)	21	(29)
8	23	(31)	25	(34)	31	(42)
10	45	(61)	50	(68)	61	(83)
12	78	(106)	88	(118)	106	(144)
14	125	(169)	140	(189)	170	(230)
16	194	(263)	216	(293)	263	(357)
18	268	(363)	--	--	364	(493)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

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.



SM110 & SM150 PARTS BREAKDOWN



NOTE: Hose Reel and mounting parts are optional.

TANKS

P110 24	110 Gallon Tank, 24" Dia.
P110 24A	110 Gallon Tank, 24" Dia., w/ Agitation
P150 30	150 Gallon Tank, 30" Dia.
P150 30A	150 Gallon Tank, 30" Dia., w/ Agitation

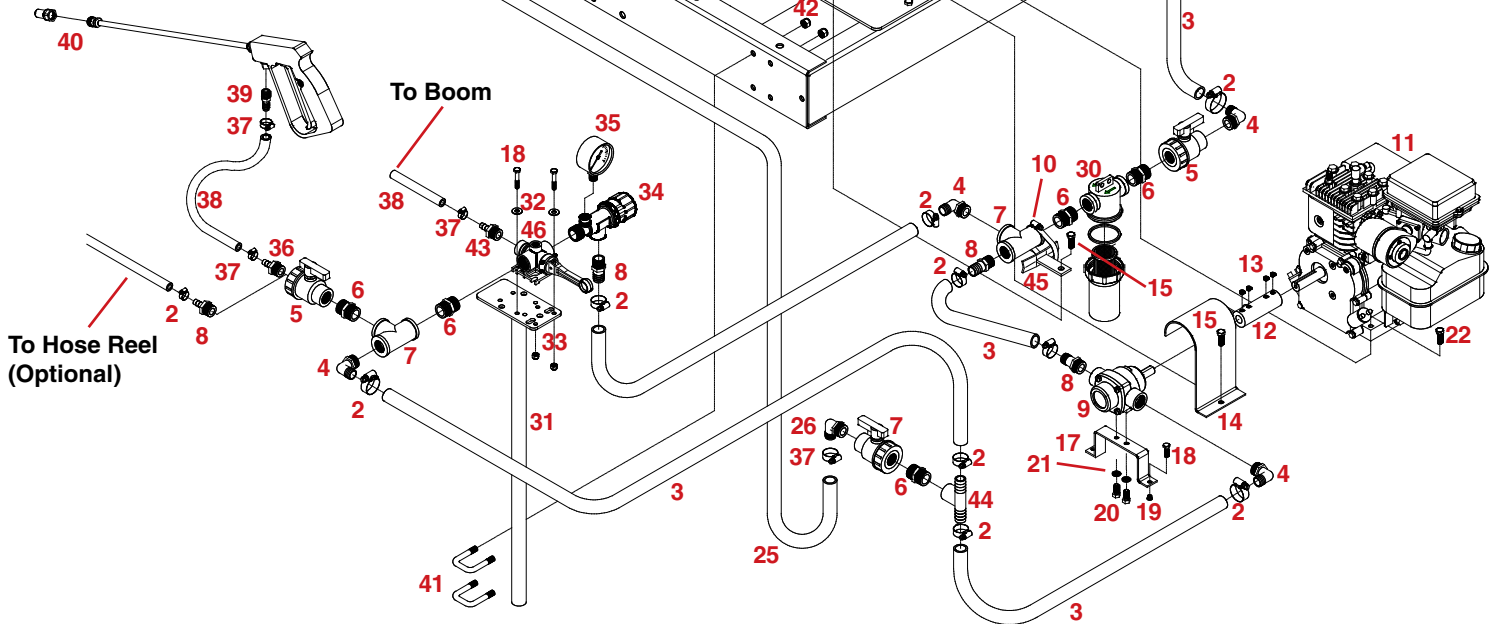
Note: Gas Driven Units require Agitation

SM110 & SM150 PARTS LIST

REF. NO.	PART NO.	QTY.	DESCRIPTION
1.	07855-10	1	Right Side Rail
2.	07856-10	1	Left Side Rail
3.	03235-10	3	Crossmember
4.	07880-10	1	Pump Mount Plate
5.	07879-10	2	Hose Reel Mount Bracket
6.	03236-10	2	Saddle Mount
7.	PS30	2	30" Dia. Saddles PS 30-30
-	PS24	2	24" Dia. Saddles PS 24-30
8.	05785-95	4	Small Strap Anchor
9.	5478R	-	10" dia. Fillwell Cover (150 gal. Tank)
10.	5478V	-	Baffle Vent for 10" Fillwell Cover (repl.)
-	PL5A	1	5" Cover for tank
11.	02802	6	5/16"-18 UNC Nylon Insert Locknut
12.	03279	1	Hose Reel
13.	00004	8	5/16" Flatwashers
14.	00967	24	1/2"-13 UNC x 1-1/4" Hex Hd. Bolt Gr.5
15.	00085	8	1/2" Flatwasher

REF. NO.	PART NO.	QTY.	DESCRIPTION
16.	02178	24	1/2"-13 UNC Nylon Insert Locknut
17.	00907	12	3/8"-16 UNC x 1" Hex Hd. Bolt Gr.5
18.	02592	16	3/8"-16 UNC Nylon Insert Locknut
19.	04352	4	5/16"-18 UNC x 4" Full Thread Bolt
20.	09820	2	1-3/4" Polyester Strap (150 Gal Tank)
-	04353	2	1-3/4" Polyester Strap (110 Gal Tank)
21.	03332-10	1	Handgun Storage Bracket
-	05595-70	1	Spray Wand Storage Bracket
22.	00059	16	3/8" Flatwasher
23.	04347-70	2	Boom Mounting Arms
24.	04346-70	1	Left Boom Mount
25.	04348-70	1	Right Boom Mount
26.	00095	2	3/8"-16 UNC x 3/4" Set Screw
27.	02990	2	5/16"-18 UNC x 1" Bolt, Gr.5
28.	02529	2	3/8"-16 UNC x 2-1/2" Round U-bolt
29.	09275-10	1	Control Valve Mount

Please order replacement parts by **PART NO.** and **DESCRIPTION.**



ROLLER PUMP PLUMBING PARTS LIST

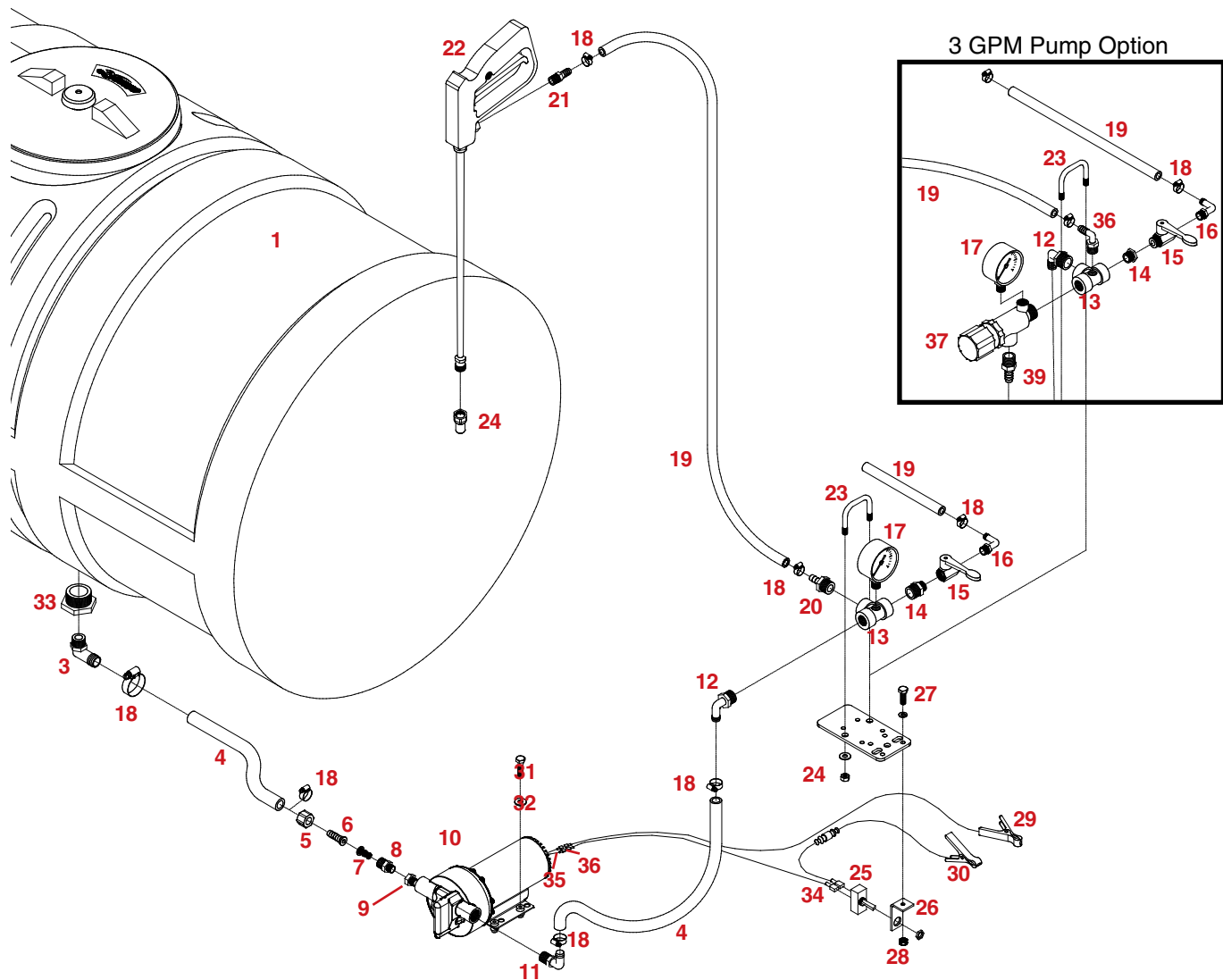
REF. NO.	PART NO.	QTY.	DESCRIPTION
1.	EL114 34	1	1-1/4" MPT x 3/4" Elbow
2.	B12H	10	1" SS Gear Clamp
3.	340RB	-	3/4" Rubber Hose
4.	BEL3434	4	3/4" MPT x 3/4" Elbow
5.	UV075FP	3	3/4" Poly Ball Valve
6.	BM3400	5	3/4" MPT Nipple Fitting
7.	BTT34	2	3/4" FPT Tee Fitting (GFP)
8.	BA3434	3	3/4" MPT x 3/4" Hose Barb Fitting (GFP)
9.	.C4101	1	Roller Pump
10.	B20H	2	1-1/4" Hose Clamp
11.	GE3HP	1	3.5 HP Briggs & Stratton Gas Engine
-	GH4HP	1	4 HP Honda Gas Engine (optional)
12.	04880-95	1	Pump/Engine Coupler
13.	07174	4	1/4" UNC x 3/4" Square Head Set Screw
14.	02653-70	1	Shaft Shield
15.	02990	1	5/16"-18 UNC x 1" Hex Head Bolt
16.	02802	5	5/16"-18 UNC Nylon Insert Locknut
17.	02660-70	1	Roller Pump Mounting Bracket
18.	04055	4	1/4"-20 UNC x 1" Hex Hd. Bolt, Gr. 5
19.	01872	2	Rubber Bumper
20.	04305	2	5/16"-18 UNC x 1/2" Hex Head Bolt
21.	00036	2	5/16" Lockwasher
22.	00372	4	5/16"-18 UNC x 1-1/2" Hex Hd Bolt Gr.5
23.	BEL1212	1	1/2" MPT x 1/2" Elbow Fitting (GFP)
24.	B12H	8	3/4" Hose Clamp (Qty. 14 on 3-Section)
25.	120RB	-	1/2" I.D. Rubber Hose
26.	BEL3412	1	3/4" MPT x 1/2" Hose Barb Elbow (GFP)

27.	P114AV	1	1-1/4" Tank Outlet Fitting Assembly
-	5078V	1	Large Viton O-ring
28.	P012DA	1	1/2" Polyethylene Tank Fitting
-	5077V	1	Small Viton O-ring
29.	D3371PSA	1	Tank Double Agitation Assembly
-	R1212	1	1/2" MPT Tee
-	5044 1	1	Jet Agitation Wand, , Nylon, .50" FPT x75 MPT
-	FC1200	1	1/2" FPT Coupling
-	M1200	1	1/2" MPT Short Nipple
30.	RVF34 80	1	3/4" Line Strainer w/ 80 Mesh Screen
-	RVF34C	1	Strainer Cap
-	RVF380	1	80 Mesh Screen
-	RVF34GV	1	Viton O-ring
-	RVF34B	1	Strainer Bowl

31.	09275-10	1	Control Valve Mount
32.	00214	4	1/4" Flatwasher
33.	02772	4	1/4"-20 UNC Nylon Insert Locknut
34.	23340PP	1	Pressure Relief Valve
35.	160GB	1	160 lb. Brass Gauge
36.	A3438	1	3/4" MPT x 3/8" Hose Barb Fitting
37.	B6H	6	3/8" Hose Clamp SS
38.	380RB	-	3/8" I.D. Rubber Hose
39.	A1438	1	1/4" MPT x 3/8" Hose Barb
40.	12434	1	Spray Wand
-	12496	-	Spray Wand Tip for Gas Driven Pump
41.	02529	2	3/8"-16 UNC x 1-1/2" U-bolt
42.	02592	4	3/8"-16 UNC Nylon Insert Locknut
43.	A1238	1	1/2" MPT x 3/8" Hose Barb
44.	T34F	1	3/4" FPT x 3/4" Hose Barb
45.	05596-95	1	Tee Mount Bracket
46.	6B1	1	3/4" FPT Direct-O-Valve
-	AB6B1	-	Direct-O-Valve Repair Kit
*47.	AA171	1	3/4" FPT Tee Valve
*48.	BA3412	3	1/2" MPT x 3/4" Hose Barb
*49.	00523	2	3/8"-16 UNC x 1-1/4" Hex Head Bolt
*50.	00059	4	3/8" Flatwasher
*51.	F1000	1	1" MPT Plug

Please order replacement parts by **PART NO.** and **DESCRIPTION.**

ELECTRIC PUMP PLUMBING PARTS BREAKDOWN



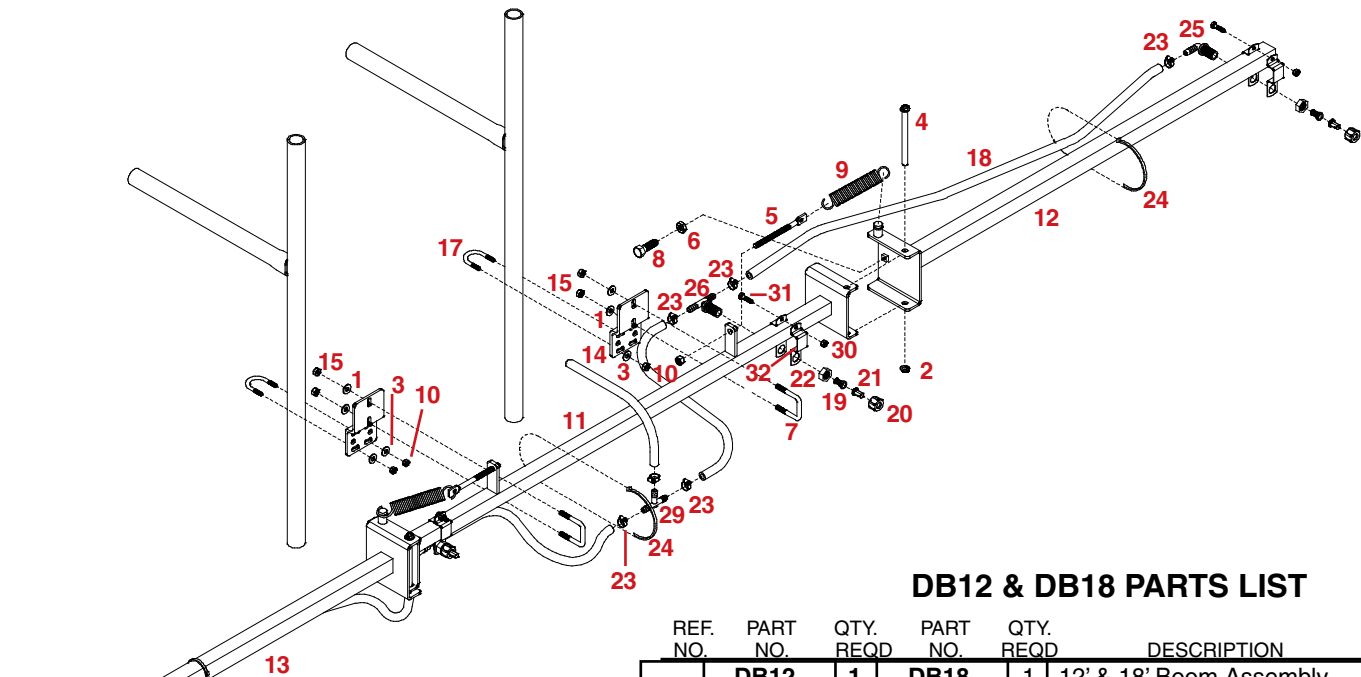
ELECTRIC PUMP PLUMBING PARTS LIST

REF. NO.	PART NO.	QTY.	DESCRIPTION
1.	P110 24	1	110 gal. Poly Tank, 24" Diameter
1.	P150 30	-	150 gal. Poly Tank, 30" Diameter
-	PL5A	1	Cover for tank
-	5478R	-	10" Dia. Fillwell Cover (150 gal. Tank)
-	5478V	-	Baffle Vent for Fillwell Cover 5478R X
2.	05020	2	14 GA. Male Bullet Connector
3.	BEL3412	1	3/4" MPT x 1/2" Hose Barb Elbow
4.	120RB	-	1/2" I.D Rubber Hose
5.	8027	1	Swivel Nut
6.	K8400 1/2	1	1/2" Hose Barb
7.	8079NY	1	50 Mesh Poly Strainer
8.	NB1614	1	1/4" MPT x 11/16" MPT Strainer Fitting
9.	RB3814	1	3/8" MPT x 1/4" FPT Reducer Fitting
10.	12981	1	5 GPM, 12VDC Pump
11.	EL3812	1	3/8" MPT x 1/2" Hose Barb Elbow
12.	BEL1212	1	1/2" MPT x 1/2" Hose Barb Elbow
13.	BTT12G	1	1/2" FPT Tee (Tapped for Gauge)
14.	BM1238	1	1/2" MPT x 3/8" Reducer Nipple
15.	03900	1	3/8" FPT x 3/8" FPT Valve
16.	EL3838	1	3/8" MPT x 3/8" Hose Barb
17.	60GB	1	60lb. Pressure Gauge
18.	B6H	8	3/8" Hose Clamp SS
19.	380RB	-	3/8" I.D. Rubber Hose

REF. NO.	PART NO.	QTY.	DESCRIPTION
20.	A1238	1	1/2" MPT x 3/8" Hose Barb
21.	A1438	1	1/4" MPT x 3/8" Hose Barb
22.	30L22425 18	1	18" Hand Spray Wand
23.	00955	1	1/4" UNC x 1" x 2" Round U-bolt
24.	5500 6PP	2	Spray Wand Tip for Electric Pump
25.	01013	1	Switch
26.	04755-95	1	Switch Mount
27.	04055	1	1/4"-20 UNC x 1" Hex Head Bolt
28.	02772	7	1/4"-20 UNC Nylon Insert Locknut
29.	02447	1	Red Battery Clamp (+)
30.	02448	1	Black Battery Clamp (-)
31.	00336	4	1/4"-20 UNC x 1-1/4" Hex Head Bolt
32.	00214	4	1/4" Flatwasher
33.	BRB114 34	1	1-1/4" MPT x 3/4" FPT Reducer Bushing
34.	05004	2	Push On Female Terminal
35.	05020	2	14-16 GA Male Bullet Connector
36.	05021	2	14-16 GA Female Bullet Connector
37.	23120PP	1	1/2" NPT Pressure Relief Valve
38.	EL1438	1	1/4" MPT x 3/8" Hose Barb Elbow
39.	BA1212	1	1/2" MPT x 1/2" Hose Barb

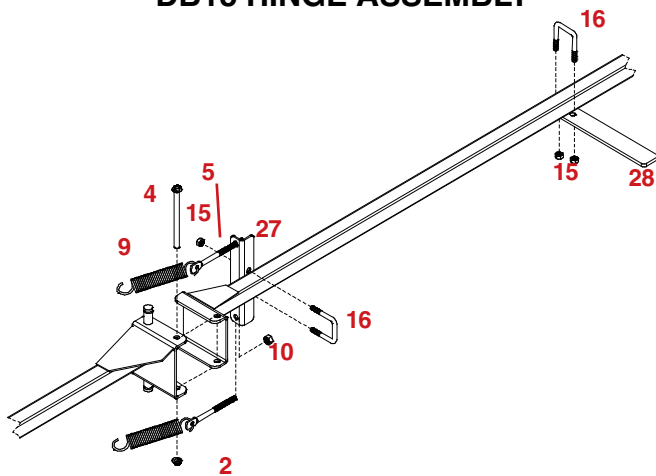
Please order replacement parts by PART NO. and DESCRIPTION.

12' & 18' BOOM (DB12 & DB18) PARTS BREAKDOWN



NOTE: The mounting brackets (#14) and attaching hardware are used to mount the 18' Boom in the same manner.

DB18 HINGE ASSEMBLY



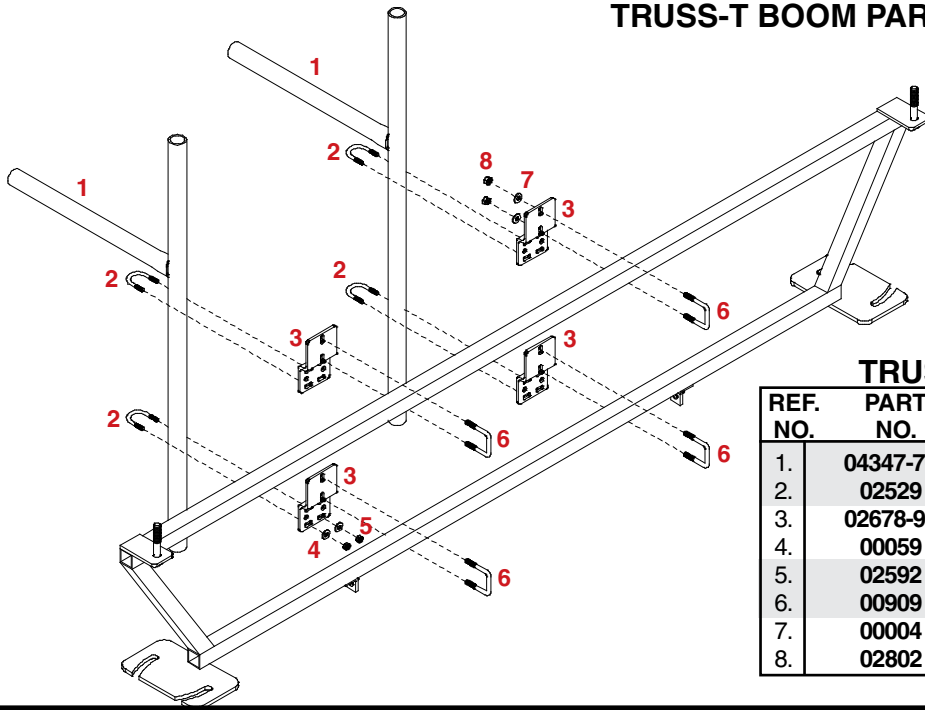
DB12 & DB18 PARTS LIST

REF. NO.	PART NO.	QTY. REQD	PART NO.	QTY. REQD	DESCRIPTION
	DB12	1	DB18	1	12' & 18' Boom Assembly
1.	00004	4	00004	4	5/16" Flatwasher
2.	00009	2	00009	2	Cotter Pin (1/8" x 1")
3.	00059	8	00059	8	3/8" Flatwasher
4.	00340-95	2	00340-95	2	Wing Hinge Pin
5.	00357	2	00357	4	3/8"-16 UNC x 4-1/2" Tension Bolt
6.	00640	2	00640	2	1/2" - 13 UNC Jam Nut
7.	00909	2	00909	5	5/16" x 1-3/8" Sq. U-Bolt
8.	00967	2	00967	2	1/2" - 13 UNC x 1-1/4" Hex Head Bolt
9.	01564	2	01564	4	Spring
10.	02592	6	02592	8	3/8" - 16 UNC Nylon Insert Locknut
11.	02636-10	1	03673-10	1	Center Boom Section
12.	02637-10	1	03675-10	1	Right Wing Section
13.	02638-10	1	03680-10	1	Left Wing Section
14.	02678-95	2	02678-95	2	Boom Mounting Plate
15.	02772	8	02772	14	1/4" - 20 UNC Nylon Insert Locknut
16.	-	-	04822	3	1/4" - 20 UNC x 1-1/2" Sq. U-Bolt
17.	02529	2	02529	2	3/8" - 16 UNC x 1-1/2" Round U-Bolt
18.	380RB	-	380RB	-	3/8" I.D. Rubber Hose
19.	4193APP50	4	4193APP50	6	5 PSI Ball Check Valve
20.	8027	4	8027	6	11/16" FPS Swivel Nut
21.	AN1.5	4	AN1.5	6	Flood Jet Spray Tip
22.	B12	4	B12	6	Nozzle Nut
23.	B6H	8	B6H	12	3/8" Gear Clamp
24.	NHT11	3	NHT11	12	Hose Tie
25.	NTL38	2	NTL38	2	3/8" Elbow Spray Nozzle Fitting w/nut
26.	NTT38	2	NTT38	4	3/8" Tee Nozzle Fitting w/nut
27.	-	-	03674-10	2	Spring Anchor Angle (DB18 Only)
28.	-	-	03676-10	1	Boom Support Plate (DB18 Only)
29.	T38	1	T38	1	3/8" Insert Tee

	B11 114	4	B11 114	6	1-1/4" Boom Clamp Assembly
30.	00062	1	00062	1	1/4"-20 UNC Nut
31.	00068	1	00068	1	1/4"-20 UNC x 3/4" Hex Hd. Bolt
32.	00337-95	2	00337-95	2	1-1/4" Boom Clamp

Please order replacement parts by **PART NO.** and **DESCRIPTION.**

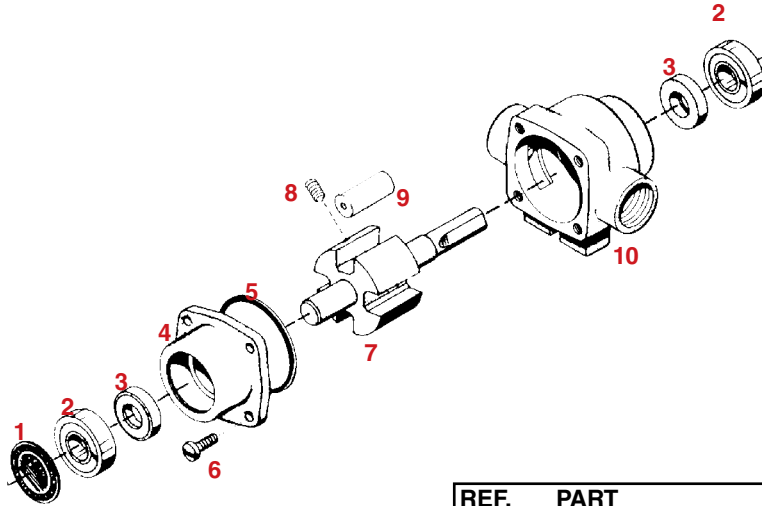
TRUSS-T BOOM PARTS BREAKDOWN



TRUSS T BOOM PARTS LIST

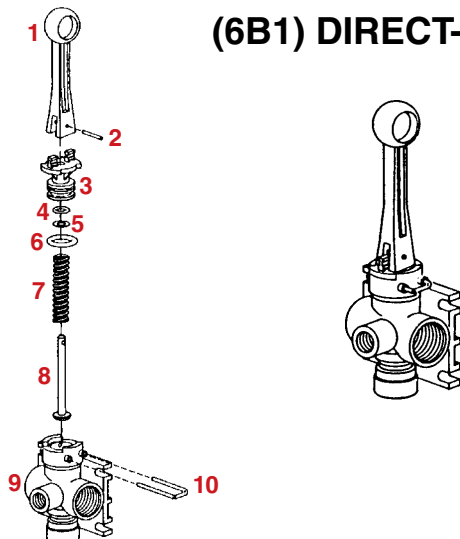
REF. NO.	PART NO.	QTY.	DESCRIPTION
1.	04347-70	2	Boom Mounting Brackets
2.	02529	4	3/8"-16 UNC x 1-3/8" Round U-bolt
3.	02678-95	4	Boom Mounting Plate
4.	00059	8	3/8" Flatwasher
5.	02592	8	3/8"-16 UNC Nylon Insert Locknut
6.	00909	4	5/16"-18 UNC x 1-3/8" Sq. U-bolt
7.	00004	8	5/16" Flatwasher
8.	02802	8	5/16"-18 UNC Nylon Insert Locknut

(C4101 & XL4101) ROLLER PUMP PARTS LIST



REF. NO.	PART NO.	QTY.	DESCRIPTION
1.	0600	1	Name Plate (specify pump model #.)
2.	BAC37	2	Sealed Ball Bearing
3.	*2107 0002	2	Viton Seal (standard)
4.	0200 4101C	1	End Plate (cast iron)w/standard seal
-	0200 4101X	1	End Plate (silver cast) w/standard seal
5.	*1720 0104	1	O-ring Gasket for End Plate
6.	2200 0009	4	End Plate Screw
7.	0300 4101C	1	Rotor (cast iron)and Shaft Assembly
-	0300 4101X	1	Rotor (silver cast) and Shaft Assembly
-	0500 6600	1	Shaft ONLY
8.	2230 0002	1	Rotor Set Screw
9.	1005 0004	4	Super Rollers (standard)
-	*1002 0002	4	Polypropylene Rollers (optional)
10.	0100 4101C	1	Body (cast iron) w/standard seal
-	0100 4101X	1	Body (silver cast) w/standard seal
-	3430 0158	-	Repair Kit: contains items Marked (*)

(6B1) DIRECT-O-VALVE PARTS BREAKDOWN

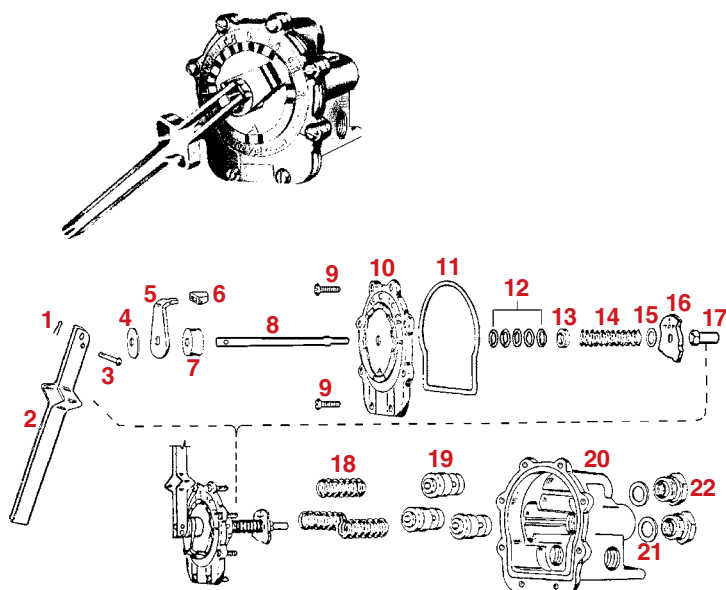


(6B1) DIRECT-O- VALVE PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
1.	36301NY	Handle (Nylon)
2.	36308SS	Groove Pin (Stainless Steel)
3.	36302PP	Body Insert (Polypropylene)
*4.	7717 2 108VI	O-ring (Viton)
5.	36307SS	Washer (Type 316, Stainless Steel)
*6.	7717 2 209VI	O-ring (Viton)
7.	36306SS	Spring (Type 316, Stainless Steel)
8.	36305	Stem (Stainless Steel & Polyethylene)
9.	36303PP	Body (Polypropylene)
10.	36309SS	Retaining Clip (Stainless Steel)
AB6B1 Spare Parts Kit (includes items with *)		

Please order replacement parts by PART NO. and DESCRIPTION.

(AA17I) TEE VALVE PARTS BREAKDOWN



(AA17I) TEE VALVE PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
1.	8012 1/2SS	1/16" x 1/2" Cotter Pin, stainless steel
2.	6849IZP	Handle, steel & zinc plated
2.A	15490SS	Rivet, stainless steel
* 3.	7206IZP	Rivet, steel, zinc plated
* 4.	6976IZP	Handle Washer, steel, zinc plated
5.	12128IZP	Selector Shield, steel, zinc plated
* 6.	12127CE	Selector Shield Tip, celcon
7.	12129CE	Spacer, celcon
8.	6972SS	Main Stem, stainless steel
* 9.	7980IZP	Screw, steel, zinc plated (8 required)
10.	12126AL	Cover Plate, aluminum
* 11.	6975BU	Gasket, buna-N
* 12.	5809LEA	Packing, thermo-leather (5 required)
13.	12130SS	Packing Gland, stainless steel
14.	7254SS	Main Spring, stainless steel
15.	7987SS	Washer, stainless steel
16.	6971AL	Selector Cam, aluminum
17.	6973SS	Guide Nut, stainless steel
18.	6959SS	Valve Spring, stainless steel (3 req'd.)
19.	6956CE	Valve Stem, celcon (3 required)
20.	6934 6AL	Body, aluminum
* 21.	6958POL	Seat Plate, polyethylene (3 required)
22.	7262AL	Outer Adapters, aluminum (required)
AB17 Spare Parts Kit (includes items with *)		

NOTES

NOTES

SPRAYER CHECKLIST:

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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