

TORO®

MODEL NO. 41120, 41121,
41020, 41021, 41038 and
41130

SET-UP AND PARTS LIST

PRO-CONTROL SPRAY SYSTEM FOR USE ON THE MULTI-PRO 1100 VEHICLE

Refer to the illustrated Parts List for the details of parts used in assembling the PRO-CONTROL Sprayer System.

"Right" and "Left" as used in the following instructions, refer to the operator's right and left when seated in the normal operating position. Likewise, "Front" and "Rear" as seen from the operator's position.

SPEED SENSOR: Mount the four magnets to the inside rim of the left rear wheel as shown in FIG. 1. Magnets must be mounted in alternating red-black order.

■ Mount the Sensor Assembly to the Rear Axle Mount. It is necessary to enlarge the hole in the Switch Bracket used in mounting the Sensor Assembly to the Rear Axle Mount. See DETAIL "A".

■ Position the Sensor Assembly so that as the Wheel rotates, the Magnets pass across the center of the black molded Switch Assembly. See DETAIL "B". Adjust the Switch Bracketry to obtain the proper position.

■ The clearance gap between the Magnets and the Switch Assembly **MUST** be between 1/4" to 1". Rotate the Wheel and make sure that the gap between each of the four Magnets and the Switch Assembly is correct. Tighten all of the fasteners securely.

TANK ASSEMBLY: Cut the shipping straps and remove the Spray Tank and Saddle Assembly from the skid.

Apply thread sealer and install the 90° barbed elbow into the bottom of the Tank.

NOTE: Position the barbed elbow as shown in FIG. 2, so that when the Suction Hose is attached, it will angle toward the left front of the Vehicle after the Tank is installed on the Vehicle.

■ Attach the 1" x 21" Suction Hose to the barbed elbow in the bottom of the Tank with a hose clamp. Attach the female Qwik-Coupler to the other end of the Suction Hose.

■ Attach the 1/2" x 34" Agitator Hose to the barbed elbow in the front of the Tank with a hose clamp. Attach the female Qwik-Coupler to the other end of the Agitator Hose.

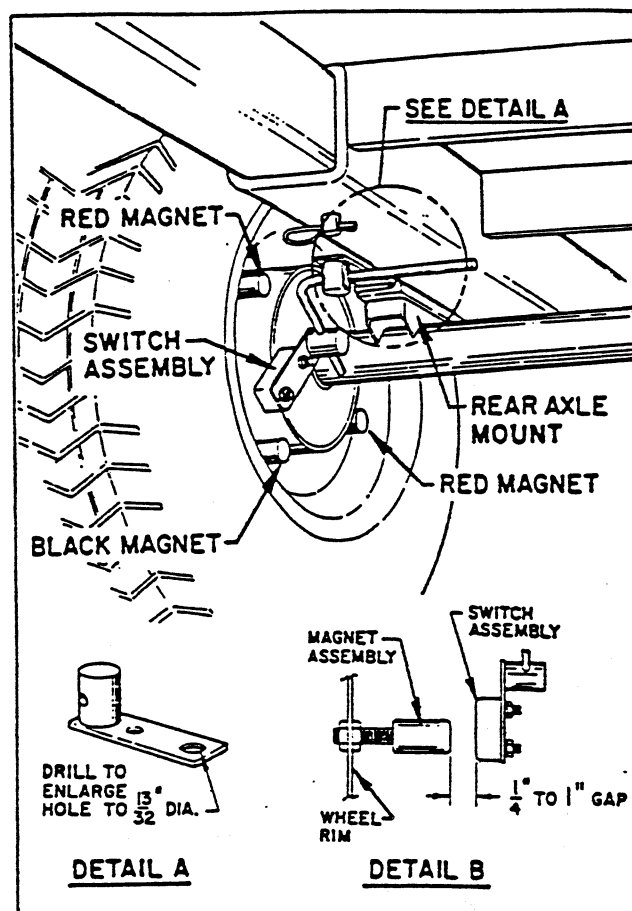


FIG. 1

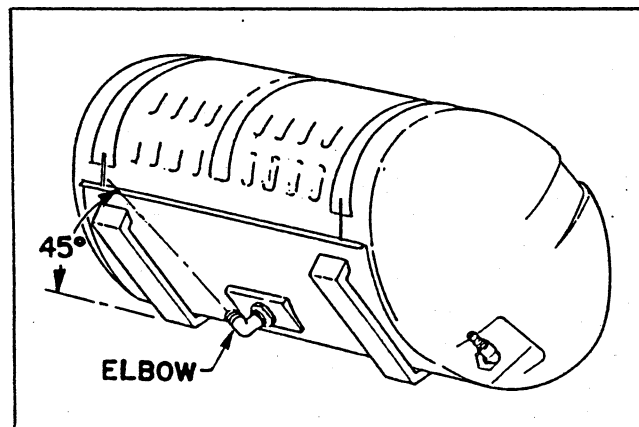


FIG. 2

TANK ASSEMBLY (continued)

■ Apply thread sealer and install the 90° street elbow and a hose barb into the fitting at the rear of the Tank. Attach the 1" x 58" Overflow Hose to the hose barb with a hose clamp. Attach a female Qwik-Coupler to the other end of the Overflow Hose with a hose clamp.

■ Place the Tank and Saddle Assembly on the Vehicle Frame. Secure to the Vehicle with two 1/2" x 1-1/4" hex hd cap screws and hex nuts through the rear mounting member of the Saddle Assembly.

■ Route the Suction Hose over the left side of the Vehicle Frame. Route the Overflow Hose through the Tank Saddle, forward, along the left side of the Vehicle frame.

CENTRIFUGAL PUMP: Install the Pump Assembly between the mounting lugs on the Vehicle Frame. Secure the Pump to the lugs with the Pivot Shaft and a hair pin cotter.

■ Check the alignment of the Pump's Pulley with the Engine Drive Pulley, using a straight edge. Adjust if necessary, by loosening and re-positioning the Drive Pulley.

■ Install the Drive Belt and the Pump Cover Clamp.

■ Install the Pump Belt Cover onto the Pump Cover Clamp and secure with two lock nuts.

■ Insert the 3/8" x 4" cap screw into the hole in the Pump Cable's end fitting and through the Pump Cover. Secure the Cable to the Pump Cover with a lock nut.

■ Attach the other end of the Pump Cable onto the Pin in the Pump Control Handle. Secure with a flat washer and hair pin cotter. Attach the Spring.

■ Engage the Pump Engagement Lever...DO NOT START THE ENGINE. Adjust the Belt Guide to obtain 1/8" clearance between the inside of the Guide and the Belt.

IMPORTANT! For the Pump Engagement to operate properly, it should require a small amount of pressure to snap the Lever "over-center" to disengage the Pump drive.

Adjust if necessary, by loosening the two nuts which secure the Belt Cover to the Clamp on the Pump Shaft and re-positioning the Belt Cover. Tighten the lock nuts after adjustment is complete.

■ Apply thread sealer and install all of the Fittings, Ball Valves and Qwik-Couplers as shown in FIG. 4, to connect the Suction, Supply, Overflow and Agitator

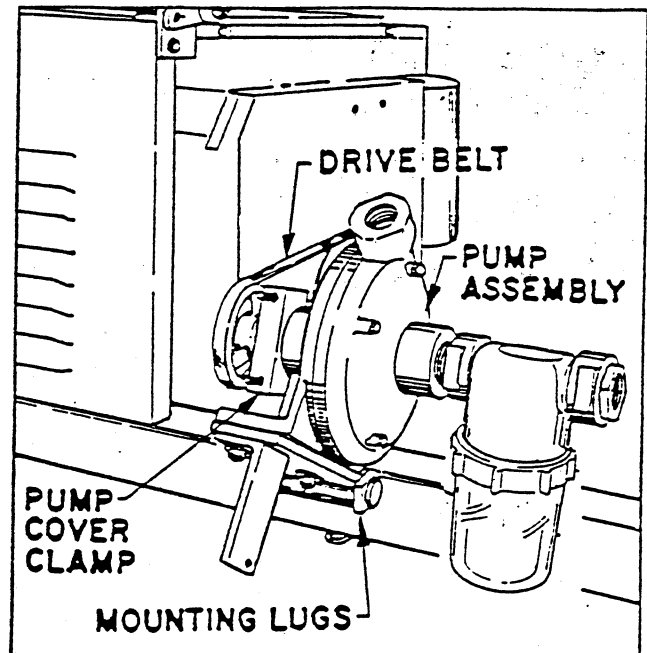


FIG. 3

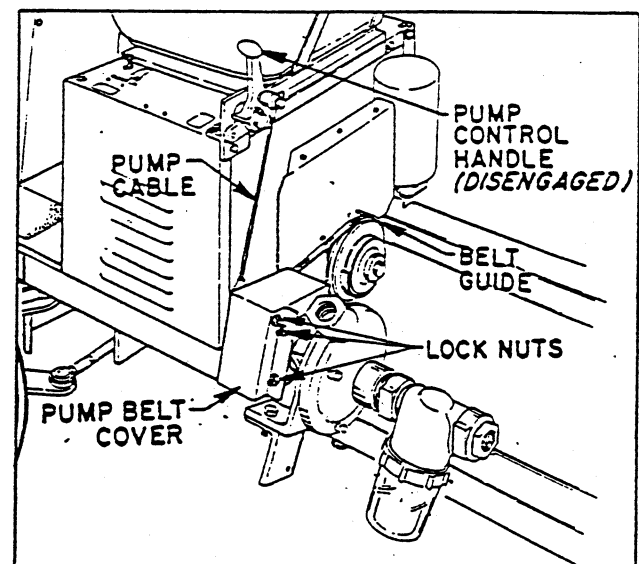


FIG. 4

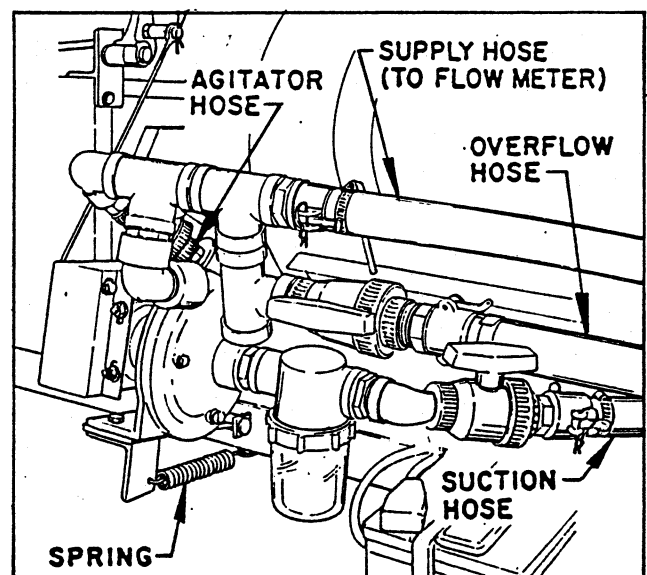


FIG. 5

BOOM ASSEMBLY: Use a paint brush to apply a heavy coating of grease to the tubes which are to be inserted into the Vehicle Frame.

- Install the two Boom Mount Assemblies into the Vehicle Frame as shown in FIG. 6. Use a torque wrench to tighten the long (1/4" x 8") screws which join the Wedges to the tubes. Tighten to 50 ft. lbs.

CAUTION! FAILURE TO TIGHTEN THESE SCREWS SECURELY COULD RESULT IN THE BOOM FRAME FALLING OFF THE VEHICLE!

THESE INSTRUCTIONS APPLY TO THE ASSEMBLY OF THE MANUAL BOOM ONLY. IF THE OPTIONAL "BOOM PIVOT KIT" IS TO BE INSTALLED, SEE THE INSTRUCTIONS FURNISHED WITH THAT KIT.

- Position the Cross Support Angle as shown in FIG. 6 and attach it to the Boom Mount Assemblies with two 1/2" x 1-1/4" hex hd cap screws, and lock nuts.

- Position the Spacer Tubes between the Boom Mount uprights and the lugs on the Main Frame Tube. Use two 1/2" x 4" hex hd cap screws and lock nuts to secure the Main Frame Tube to the uprights. See FIG. 7.

- Position the two Center Boom Angles on the Main Frame Tube as shown in FIG. 7 and secure them to the Frame Tube with "U"-bolts and lock nuts.

- Center and attach the Center Boom Pipe to the Center Boom Angles with two clamps, 3/8" x 1" hex hd cap screws, washers and lock nuts.

- Loosely attach the triple barb Nozzle Assembly in the approximate center of the Center Boom Pipe. For the most uniform spray coverage, position all Nozzle Assemblies at a 45° angle as shown in FIG. 7. Tighten clamp screw to secure the Nozzle to the Boom Pipe.

- Loosely attach a single barb Nozzle Assembly to each end of the Center Boom Pipe. Place two hose clamps on the two 3/4" x 19" Jumper Hoses and connect the single barb Nozzles to the triple barb Nozzle. Tighten all fasteners securely.

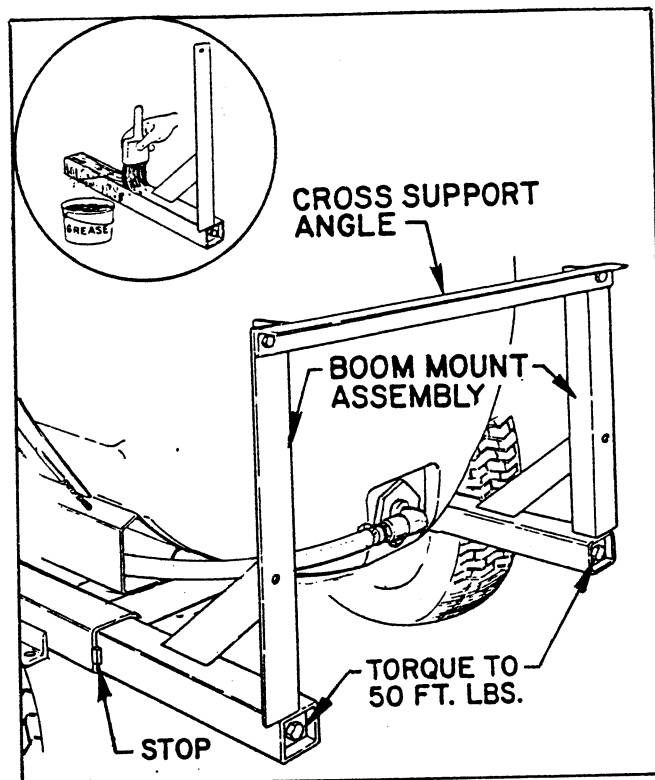


FIG. 6

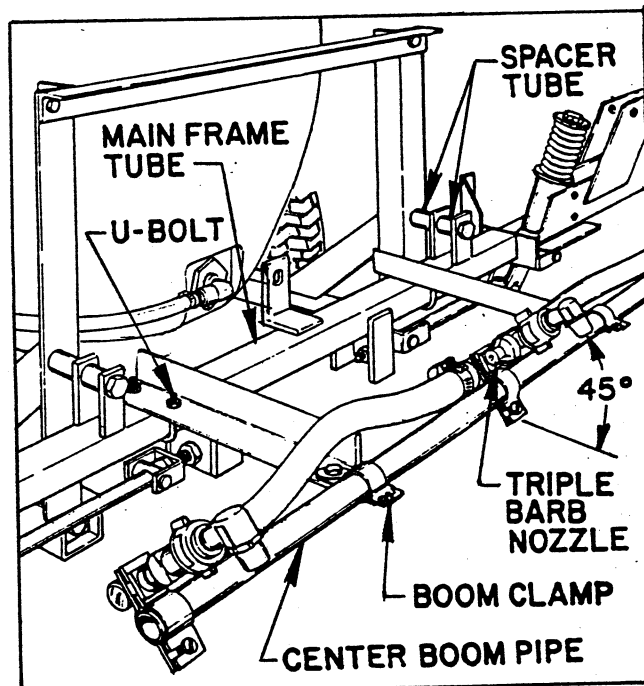


FIG. 7

BOOM ASSEMBLY (continued)

- Insert an Extension Boom Pipe into the Pivot Assembly and secure with four 1/4" x 1-1/4" hex hd cap screws and lock nuts. See FIG. 8. Repeat on the opposite side to assemble the other Extension Boom.
- Attach the Boom Support Assembly to the Pivot Assembly, using a 5/16" x 1-1/2" screw and hex nut. See FIG. 8. Secure the two plates of the Boom Support Assembly to the Extension Boom Pipe, using two U-bolts and four lock nuts.
- Assemble the Boom Support Assembly to the other Extension Boom Pipe.
- Attach three double barb and one single barb Nozzle Assemblies on each Extension Boom Pipe as shown in the illustrated Parts List. Nozzles are to be spaced on 20 inch centers. Connect the Nozzle Assemblies with the 3/4" x 19" Jumper Hoses. Secure with hose clamps

If the optional Boom Pivot Kit is to be installed, refer to the instructions furnished with that Kit. The Cross Support to be used with that Kit is different than the Support used on the Manual Boom.

CONTROL VALVE ASSEMBLY: Apply thread sealer and install the fittings used to connect the Motorized Control Valve to the Solenoids. Install the 1" hose barb into the Control Valve and the 3/4" barbed elbow into the Solenoid. See FIG. 9.

- Loosely attach the Control Valve Bracket to the Cross Support with two 5/16" x 1" hex hd cap screws, washers and nuts.
- Slide the Solenoid Mounting Strap into position and mount the complete Control Valve and Solenoid Assembly to the Cross Support as shown in FIG. 9. Use four 5/16" x 1" hex hd cap screws with washers below the screw head, the Strap and the Cross Support.
- Secure the Control Valve to its Mounting Bracket with the large hose clamp. Tighten all fasteners securely.
- Assemble the Pressure Gauge and the 3/8" barbed elbow to the Gauge Bracket. Mount the Bracket to the carriage bolt in the rear Tank Band, using a 5/16" hex nut and lock washer. Replace the protective cap.

- Connect the Pressure Gauge to the Solenoid Assembly with the 3/8" x 32" Hose.
- Connect the 1" x 24" Flow Meter Hose to the Motorized Control Valve with a hose clamp. Use a hose clamp to attach a female Qwik-Coupler on the other end of

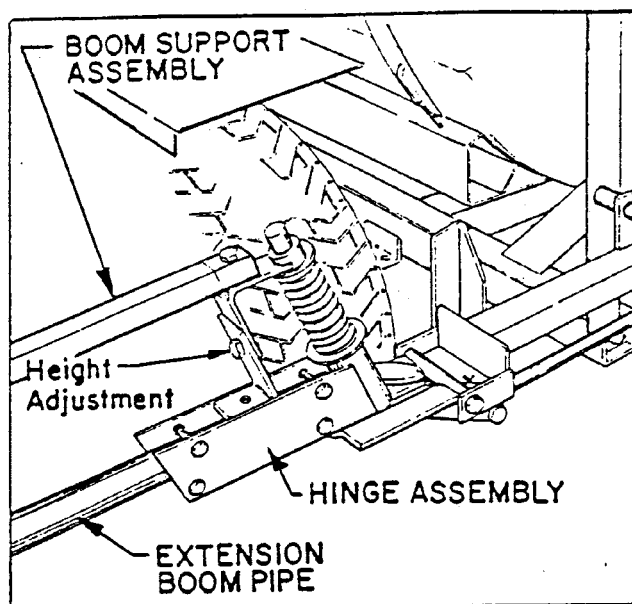


FIG. 8

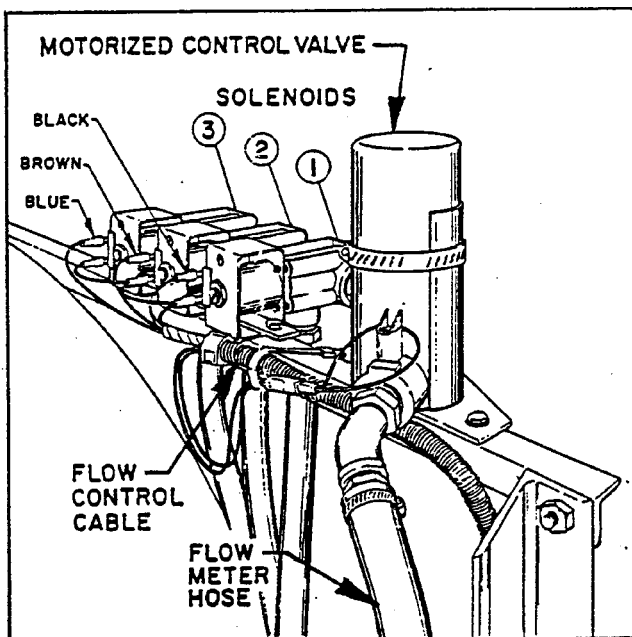


FIG. 9

- Apply thread sealer and install the three hose barbs into the bottom of the Solenoid Assembly. Connect Boom Feeder Hoses to the barbs with hose clamps. The two 3/4" x 50" Hoses are to be attached to the hose barbs in the left and right Solenoids. The 3/4" x 36" Hose is to be attached to the barb in the center Solenoid.
- Place a hose clamp on the center Boom Feeder Hose and attach it to the triple barb Nozzle on the Center Boom Pipe.
- Place a hose clamp on the right and left Boom Feeder Hoses and attach them to the double barb Nozzles on the right and left Extension Boom Pipes.

FLOW METER: Attach the Adaptor Hose and the male Qwik-Coupler to the rear barb on the Flow Meter. Connect the Supply Hose to the front barb on the Flow Meter.

- Secure the complete Flow Meter Assembly to the Mounting Bracket with the two large hose clamps.

- Attach the Mounting Bracket to the left rear Fender as shown in FIG.10, using two 5/16" x 1" hex hd cap screws, washers and nuts

- Connect the male Qwik Coupler on the Flow Meter Hose to the female Qwik-Coupler on the Control Valve Hose to complete the PRO-CONTROL Hose connections.

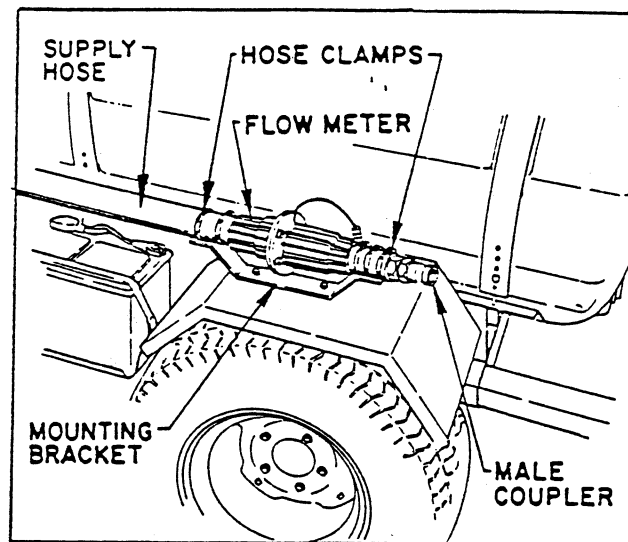


FIG. 10

CONTROL CONSOLE: Using two 1/4" x 1-1/4" carriage bolts and hex nuts, secure the Console Bracket to the MULTI-PRO's dash panel. Insert the rubber grommet into the hole provided and install the Control Console within the "U" shaped Bracket.

- Connect the Console Control Cable (10-feet) to the plug in the back of the Console. See FIG.11. Route the Control Cable through the grommeted hole in the dash panel and connect it with the Flow Meter Cable (6-feet).

- TURN "POWER ON/OFF" SWITCH TO "OFF".

- Route the Red and White Battery Wires of the Console Control Cable to the Fuse Block mounted inside the Seat Support.

- Crimp the spade terminal to the white wire. Crimp the push-on terminal to the red wire. See FIG. 12.

- Ground the spade terminal on the white wire to the Ground Terminal Block.

- Connect the push-on terminal on the red wire to the male terminal on the red wire coming from the Fuse Block.

- Insert the 20-amp Fuse into the Fuse Block receptacle.

- Connect the Speed Sensor Cable into the plug in the back of the PRO-CONTROL Console. See FIG.11.

- Route the Speed Sensor Cable and the Flow Control Cable along the Vehicle frame and secure with plastic cable ties furnished. DO NOT CUT AND SPLICE THESE WIRES UNDER ANY CIRCUMSTANCES!

FILL THE TANK WITH CLEAN WATER AND CHECK FOR ANY LEAKS.

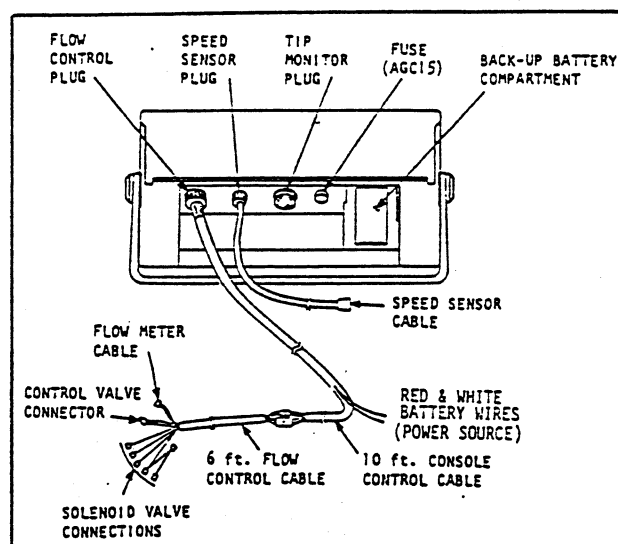


FIG. 11

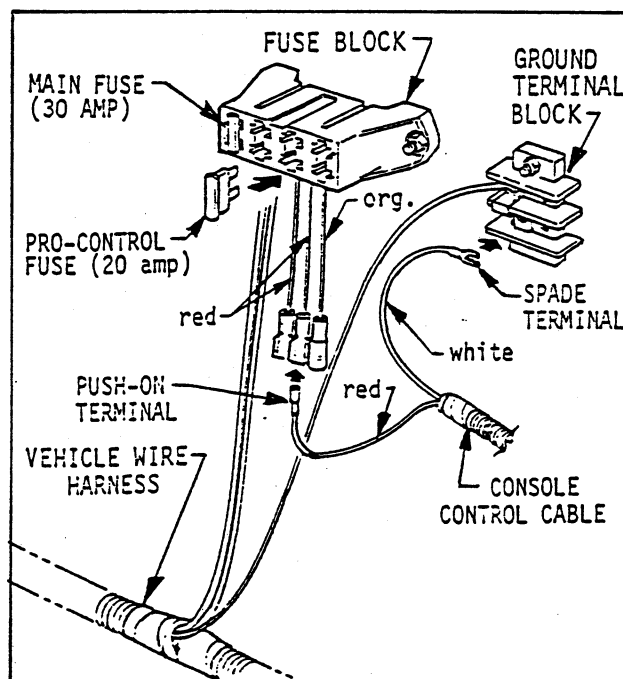
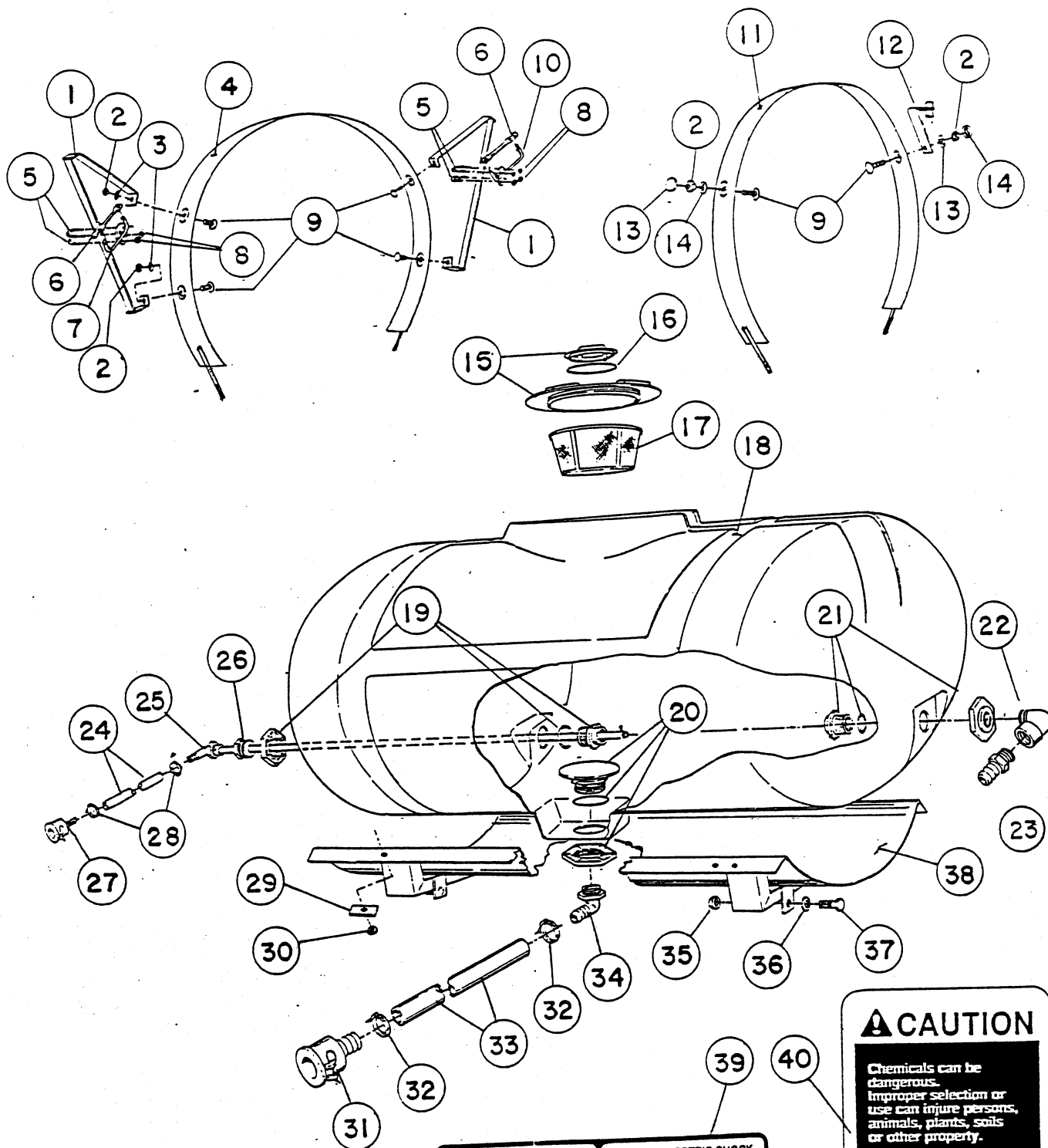


FIG. 12



CAUTION

TO AVOID ELECTRIC SHOCK
AND PERSONAL INJURY TO
BYSTANDERS

- INSPECT AREA OVERHEAD FOR
WIRES BEFORE RAISING BOOMS.
- KEEP BYSTANDERS AWAY WHILE
RAISING AND LOWERING BOOMS.

CAUTION

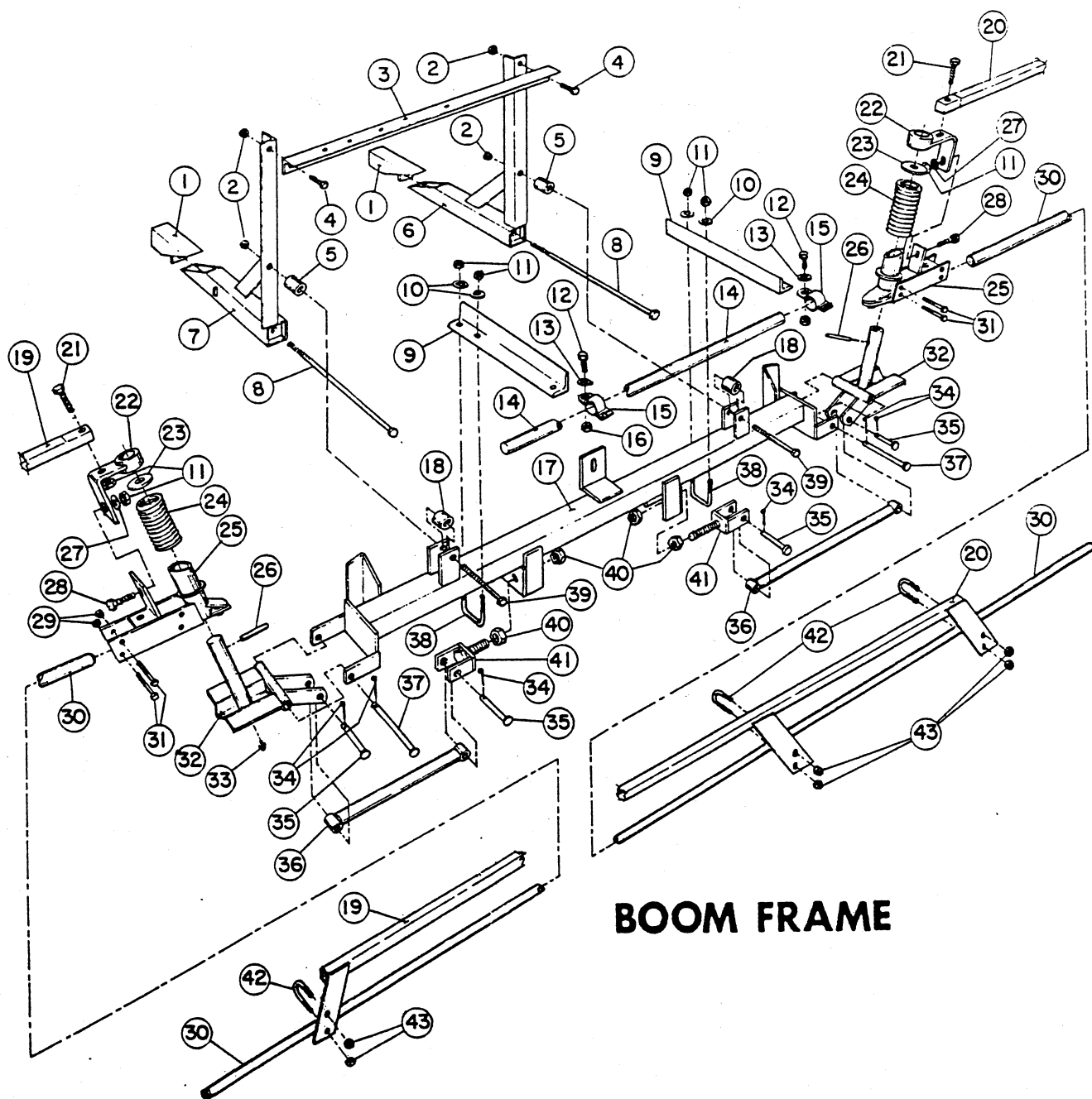
Chemicals can be dangerous.
Improper selection or
use can injure persons,
animals, plants, soils
or other property.

BE SAFE

1. Select the right chemical for the job.
2. Handle and apply it with care.
Follow instructions issued by chemical manufacturer.

TANK

REF	PART NO.	DESCRIPTION	QTY
1	42983	Hold-In Brace Assy	2
2	22-12-AJD	Hex Nut, 5/16 NC	6
3	24-10-BD	Flat Washer, 5/16	4
4	42880	Mounting Band (Front)	2
5	5125	U-Bolt, 1/4 NC	4
6	42198	Rubber Hold Down Strap	2
7	42259	Boom Hold-In Assy. - L.H.	1
8	25-25-AGD	Carriage Bolt, 5/16 NC x 3/4	6
9	22-11-AJD	Hex Nut, 1/4 NC	8
10	42316	Boom Hold-In Assy. - R.H.	1
11	43013	Mounting Band (Rear)	2
12	42277	Pressure Gauge Bracket Assy	1
13	42452	Protective Cap	2
14	23-10-GD	Lock Washer, 5/16	2
15	42322	Tank Lid (f/w Tank Assy)	1
16	42859	Breather Gasket (f/w Tank Assy)	1
17	42323	Filler Basket - 16" (f/w Tank Assy)	1
18	42879	Tank Assembly - 150 Gals.	1
19	41801	Tank Fitting, 3/4" NPT (f/w Tank Assy)	1
20	41798	Tank Fitting, 1-1/4" NPT (f/w Tank Assy)	1
21	41800	Tank Fitting, 1" NPT (f/w Tank Assy)	1
22	41307	90 St. Elbow, 1" NPT	1
23	6393	Hose Barb, 1" MPT x 1" H.B.	1
24	42988	Agitator Hose	1
25	42981	Agitator Tube Assy	1
	42842	Elbow - Agitator Tube (Barbed)	1
26	41969	Reducer Bushing, 3/4" MPT x 1/2" FPT	1
27	40487	Female Quik Coupler, 1/2" H.B.	1
28	96609	Hose Clamp	2
29	43014	Backing Strap	4
30	22-13-AJD	Hex Nut, 3/8 NC	4
31	40480	Female Quik Coupler, 1" H.B.	1
32	21146	Hose Clamp	2
33	42987	Suction Hose	1
34	42057	90 Elbow, 1-1/4" MPT x 1" H.B.	1
35	22-15-AJD	Hex Nut, 1/2 NC	2
36	23-13-GD	Lock Washer, 1/2 Med.	2
37	20-86-AGD	HHCS, 1/2 NC x 1-1/4	2
38	42878	Tank Saddle Assembly	1
39	87-0570	Decal - "Electric Shock"	2
40	41186	Decal - "CAUTION - Chemicals"	1



BOOM FRAME

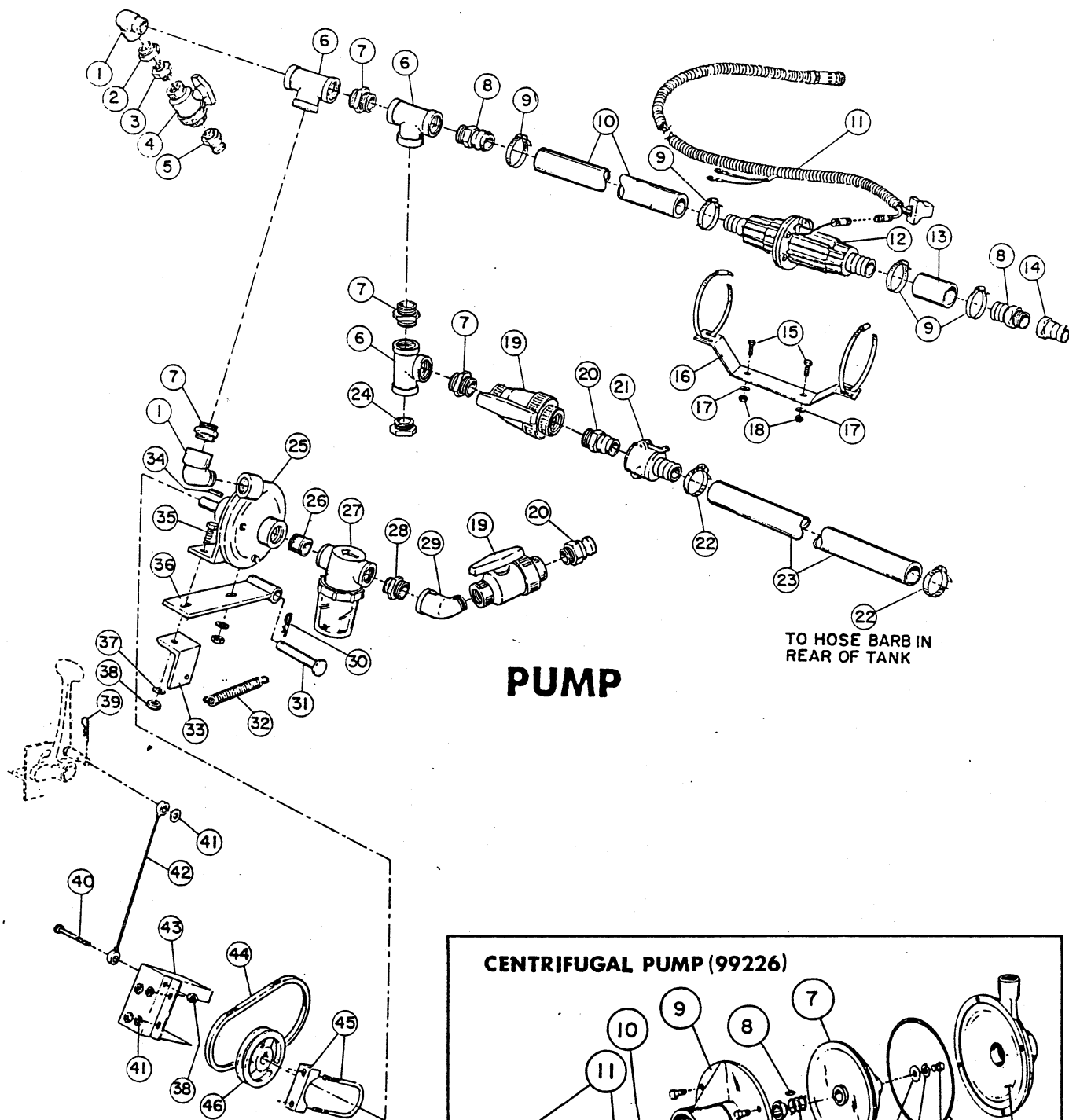
⚠ CAUTION! THE TWO SPRINGS (REF. #24) ARE UNDER APPROX. 150 LBS. OF PRESSURE. BE VERY CAUTIOUS WHEN REMOVING THE SPRING PINS (REF. #26) FOR REMOVAL OF THE SPRINGS.

⚠ CAUTION! THE TWO BOLTS (REF. #8) MUST BE TORQUED TO 50 FT. LBS.

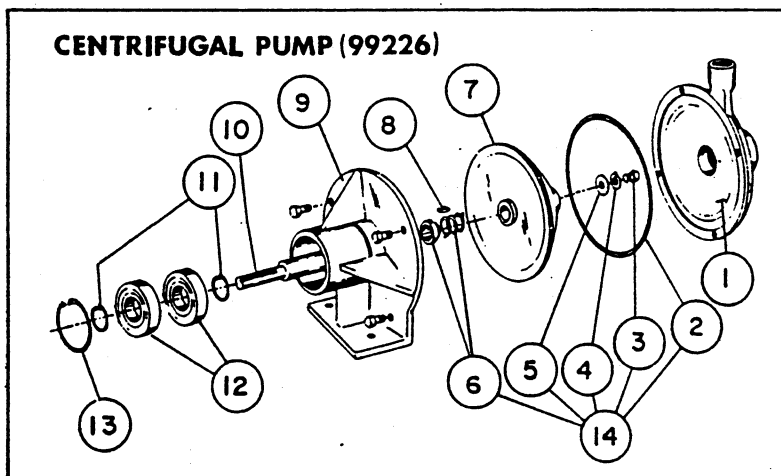
BOOM FRAME

REF	PART NO.	DESCRIPTION	QTY
1	42223	Tube Wedge Assy	2
2	22-15-AJFD	Lock Nut, 1/2 NC	4
3	42225	Cross Support Angle	1
4	20-86-AGD	HHCS, 1/2 NC x 1-1/4"	2
5	42258	Spacer Tube, 1 1/4" lg.	2
6	42222	Boom Mount Assy	1
7	42217	Boom Mount Assy	1
8	42199	HHCS, 1/2 NC x 18"	2
9	42234	Center Boom Angle	2
10	24-10-AD	Flat Washer, 5/16	4
11	22-12-AJD	Hex Nut, 5/16 NC	8
12	20-47-AGD	HHCS, 3/8 NC x 1"	2
13	24-11-AD	Flat Washer, 3/8	2
14	40493	Center Boom Pipe	1
15	40494	Clamp Assy	2
16	22-13-AJFD	Lock Nut, 3/8 NC	2
17	42227	Main Frame Tube-Welded Assy	1
18	42257	Spacer Tube, 1" Lg.	2
19	42711	Boom Support Assy. - L.H.	1
20	42710	Boom Support Assy. - R.H.	1
21	20-28-AGD	HHCS, 5/16 NC x 1 1/2"	2
22	42707	Support Bracket Assy	2
23*	24-18-BD	Flat Washer, 1" S.A.E.	2
24*	42196	Compression Spring	2
25*	42706	Breakaway Pivot Assy	2
26*	29-199-C	Sprin Pin, 1/4 x 2"	2
27	24-10-BD	Flat Washer, 5/16 S.A.E.	2
28	25-25-AGD	Carriage Bolt, 5/16 NC x 3/4	2
29	22-11-AJFD	Lock Nut, 1/4 NC	8
30	42282	Extension Boom Pipe Assy	2
31	20-8-AGD	HHCS, 1/4 NC x 1-3/4	8
32*	42243	Hinge Assy	2
33*	361011	Grease Fitting	2
34	28-18-D	Cotter Pin, 1/8 x 1"	6
35	42195	Clevis Pin, 1/2 x 2"	4
36	42240	Strut Assy	2
37	42194	Clevis Pin, 1/2 x 4-1/2"	2
38	301950	U-Bolt, 5/16 NC	2
39	20-97-AGD	HHCS, 1/2 NC x 4"	2
40	22-17-AJD	Hex Nut, 5/8 NC	4
41	42237	Adjustable Clevis Assy	2
42	5125	U-Bolt, 1/4 NC	4
43	22-11-AJD	Hex Nut, 1/4 NC	8

* Denotes parts that are available in an assembled unit.
Order #42840 Breakaway Assembly



PUMP



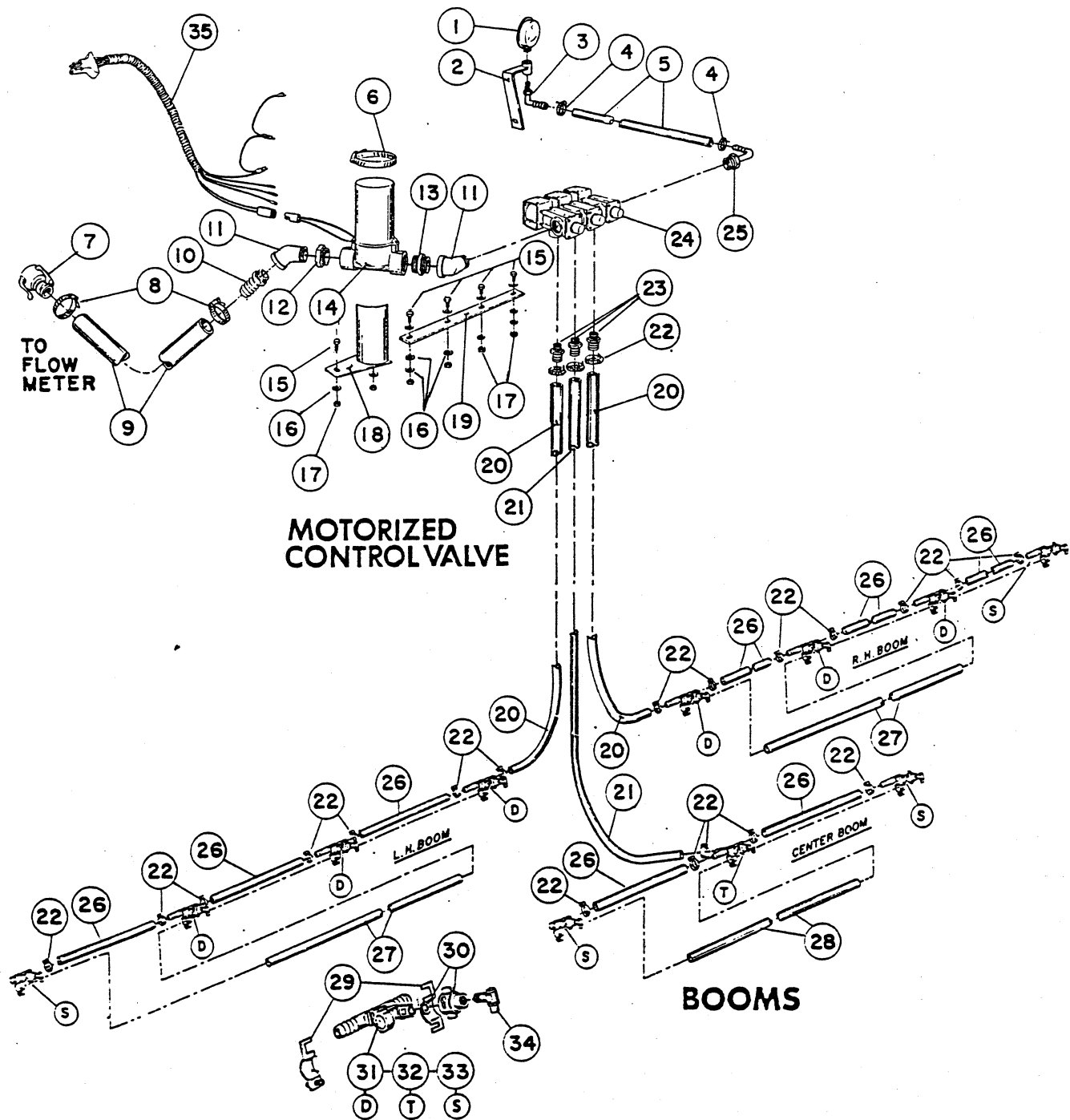
CENTRIFUGAL PUMP (99226)

PUMP

REF	PART NO.	DESCRIPTION	QTY
1	41307	90° St. Elbow, 1" NPT	2
2	41306	Reducer Bushing, 1" x 1/2" FPT	1
3	41314	Close Nipple, 1/2" NPT	1
4	40192	Ball Valve, 1/2" NPT	1
5	40486	Qwik Adaptor x 1/2" MPT	1
	41317	Qwik Adaptor Cap	1
6	41305	Tee, 1" NPT	3
7	41304	Close Nipple, 1" NPT	4
8	41308	Hose Barb, 1" MPT x 1-1/4 H.B.	2
9	41327	Hose Clamp	4
10	42996	Supply Hose, 1-1/4" x 18-1/8"	1
11	41484	Console Control Cable (10 ft.)	1
12	41482	Flow Meter	1
13	41320	Adaptor Hose, 1-1/4" x 3"	1
14	41316	Qwik Adaptor x 1" FPT	1
	41318	Qwik Coupler Cap	1
15	20-26-AGD	HHCS, 5/16 NC x 1"	2
16	41483	Flow Meter Mounting Bracket	1
17	24-10-BD	Flat Washer, 5/16 SAE	4
18	22-12-AJD	Hex Nut, 5/16 NC	2
19	40020	Ball Valve, 1" NPT	2
20	40479	Qwik Adaptor, 1" MPT	1
	41318	Qwik Adaptor Cap	1
21	40480	Qwik Coupler x 1" Hose Barb	2
22	21146	Hose Clamp	1
23	43016	Overflow Hose, 1" x 58"	1
24	41315	Hex Plug, 1" NPT	1
25	99226	Centrifugal Pump	1
26	9987	Close Nipple, 1-1/4" NPT	1
27	42701	Suction Strainer	1
	42702	Strainer Screen (f/w 42701)	1
	42703	Strainer Gasket (f/w 42701)	1
28	42992	Reducer Nipple 1-1/4" MPT x 1" MPT	1
29	5706	45° St. Elbow, 1" NPT	1
30	328967	Hair Pin Cotter	1
31	40211	Clevis Pin, 1/2 x 3-1/2"	1
32	41721	Pump Spring	1
33	41720	Spring Mounting Angle	1
34	9773	Square Key	2
35	20-49-AGD	HHCS, 3/8 NC x 1-1/2"	1
36	42990	Pump Pivot Plate Assy	2
37	24-11-AD	Flat Washer, 3/8	3
38	22-13-AJFD	Lock Nut, 3/8 NC	1
39	328963	Hair Pin Cotter	1
40	20-59-AGD	HHCS, 3/8" NC x 4"	3
41	24-11-BD	Flat Washer, 3/8 S.A.E.	1
42	42993	Pump Cable	1
43	41142	Pump Belt Cover	1
44	42989	Pump Drive Belt	1
45	31132	Belt Cover Clamp	1
46	40198	Pump Pulley	1

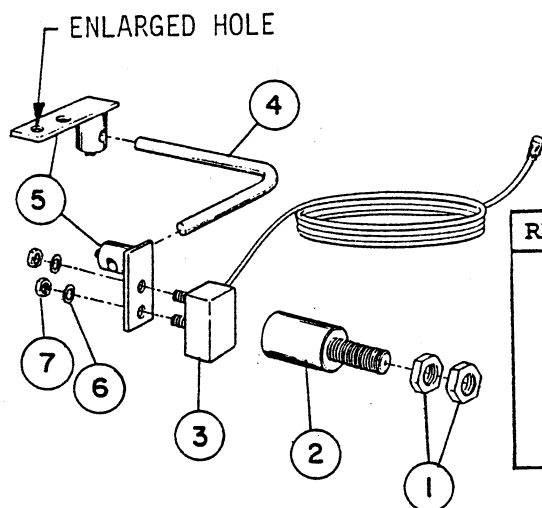
CENTRIFUGAL PUMP (99226)

REF	PART NO.	DESCRIPTION	QTY
1	27475	Volute	1
2	27489	O-Ring	1
3	27484	Cap Screw, 5/16 x 1/2 SS	1
4	27485	Lock Washer, 5/16 Stainless Steel	1
5	27487	Flat Washer, 5/16 Stainless Steel	1
6	27478	Shaft Seal	1
	41740	Optional Heavy-Duty Seal	1
7	27482	Impeller	1
8	27486	Square Key, 3/16 x 1/2 Stainless Steel	1
9	27476	Frame	1
10	27477	Shaft, Stainless Steel	1
11	27483	Lock Ring	2
12	27479	Bearing	1
13	27480	Lock Ring	1
14	27490	Repair Kit	AR



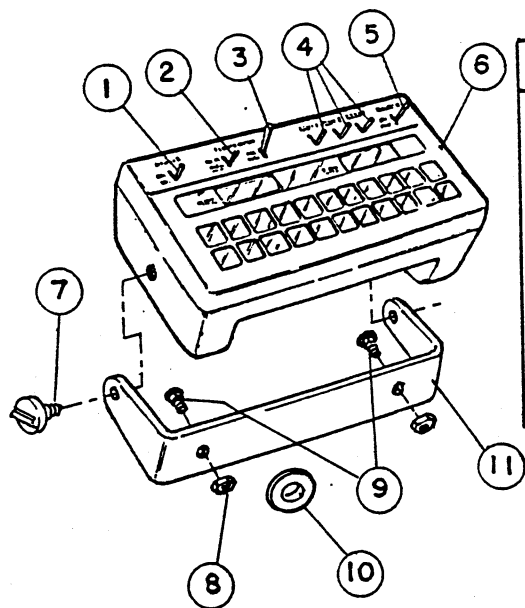
MOTORIZED CONTROL VALVE & BOOMS

REF	PART NO.	DESCRIPTION	QTY
1	40485	Pressure Guage	1
2	42277	Guage Mounting Bracket	1
3	41292	90° Elbow, 1/4 MPT x 3/8 Barb	1
4	96609	Hose Clamp, 3/8 Hose	2
5	42276	Hose (Pressure Guage) 3/8 x 32"	1
6	26393	Hose Clamp, #48	1
7	40480	Qwik Coupler, 1" Barb	1
8	21146	Hose Clamp, 1" Hose	2
9	42998	Flow Meter Hose, 1" x 24"	1
10	41730	Hose Barb, 3/4 MPT x 1" Barb	1
11	42939	45° St. Elbow, 3/4 NPT	2
12	43001	Reducer Bushing, 1" MPT x 3/4 FPT	1
13	41309	Reducing Nipple, 1" MPT x 3/4 MPT	1
14	41480	Motorized Control Valve	1
15	20-26-AGD	HHCS, 5/16 NC x 1"	6
16	24-10-BD	Flat Washer, 5/16 S.A.E.	12
17	22-12-AJD	Hex Nut, 5/16 NC	6
18	42999	Valve Bracket Assembly	1
19	41325	Solenoid Mounting Strap	1
20	41340	Boom Hose (Right & Left) 3/4 x 50"	2
21	42274	Boom Hose (Center) 3/4 x 36"	1
22	6350	Hose Clamp, 3/4 Hose	22
23	41313	Hose Barb, 1/2 MPT x 3/4 Barb	3
24	42876	Electric Solenoid Valve (100 P.S.I.)	1
	42877	Single Solenoid	AR
	42873	Seal Kit for 42877 Valve	AR
25	41295	90° Elbow, 3/4 MPT x 3/8 Barb	1
26	40506	Jumper Hose, 3/4 x 19"	8
27	42282	Extension Boom Pipe Assy	2
28	40493	Center Boom Pipe	1
29	40999	Clamp Assy	11
30	40997	Adaptor Cap & Seat Gasket Assy	11
	40998	Seat Gasket (f/w 40997)	AR
31	41001	Nozzle Body & Check Valve (Double Barb)	6
32	41002	Nozzle Body & Check Valve (Triple Barb)	1
33	41000	Nozzle Body & Check Valve (Single Barb)	4
	41003	Diaphragm (f/w 41000, 41001 & 41002)	AR
34	40444	RA-10 Raindrop Nozzle (Std.)	11
	40223	RA-15 Raindrop Nozzle (Optional)	11
	41088	RA-6 Raindrop Nozzle (Optional)	11
	42828	RA-8 Raindrop Nozzle (Optional)	11
35	41481	Flow Control Cable (6 Ft.)	1



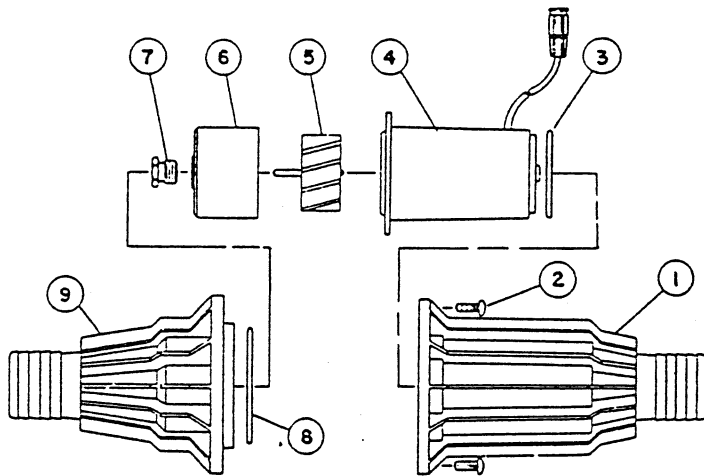
SPEED SENSOR

REF	PART NO.	DESCRIPTION	QTY
1	22-15-AJD	Hex Nut, 1/2 NC	8
2	41475	Magnet Assy. (Red)	2
	41476	Magnet Assy. (Black)	2
3	41477	Sensor Switch Assy	1
4	41479	Sensor Rod	1
5	41478	Turret Assy	2
6	23-9-GD	Lock Washer, 1/4	2
7	22-11-AJD	Hex Nut, 1/4 NC	2



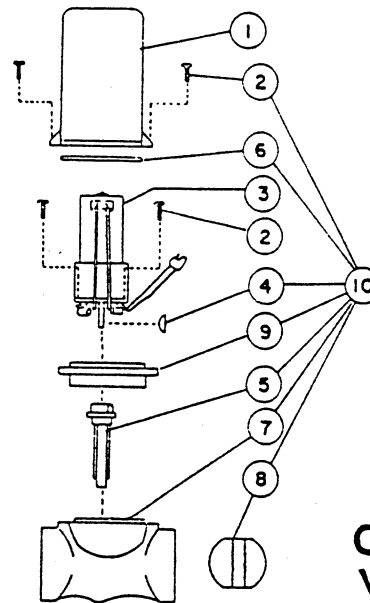
CONTROL CONSOLE

REF	PART NO.	DESCRIPTION	QTY
1	42722	POWER Switch	1
2	42723	Rate 1/Rate 2 Manual Switch	1
3	42724	MAN ADJ Switch	1
4	42558	BOOM Switch	3
5	42725	MASTER Switch	1
	42715	Fuse Holder	1
6	41472	Control Console	1
	41344	Console Cover	1
7	41473	Mounting Knob	2
8	22-11-AJD	Hex Nut, 1/4 NC	2
9	25-5-AD	Carriage Bolt, 1/4 NC x 1 1/4 ..	2
10	40764	Grommet	1
11	41474	Mounting Bracket	1



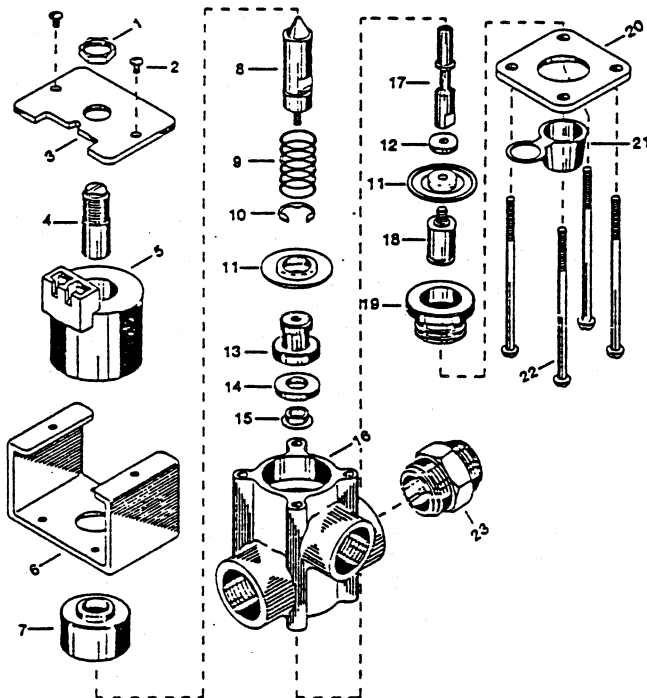
FLOW METER

REF	PART NO.	DESCRIPTION	QTY
1	42475	Sensor Housing	1
2	42476	#10-32 x 3/4 Screw (Stnl. Steel) ..	6
3	42468	O-Ring (Viton)	1
4	42477	Transducer Assy.	1
5	42478	Turbine	1
6	42479	Turbine Hub/Bearing Assy	1
7	42480	Turbine Stud w/Bearing	1
8	42469	O-Ring (Viton)	1
9	42481	Hub Housing w/Inserts	1
10	41483	Mounting Bracket (Not Shown)	1



CONTROL VALVE

REF	PART NO.	DESCRIPTION	QTY
1	42318	Valve Cover	1
2	42482	#6-20 x 3/4 Thread Forming Screw ..	6
3	42483	Motor Assy	1
4	42484	Woodruff Key	1
5	42485	Coupler Shaft	1
6	42470	Seal (Tetraseal)	1
7	42486	Valve Body	NS
8	42486	Butterfly	1
9	42487	Isolation Flange Assy	1
10	42488	Valve, Iso-Body Kit	AR



SOLENOID VALVE

REF	PART NO.	DESCRIPTION	QTY
1	42125	Jam Nut, Nickel Plated	1
2	42126	Screw, Stainless Steel	2
3	42881	Coil Cover	1
4	42128	Armature Stop, Nickel Plated	1
5	42129	12 V. Coil Assy, Nylon Encapsulated	1
6	42882	Strap	1
7	42131	Upper Diaphragm Housing, Nickel Plated ..	1
8	42132	Armature, Nickel Plated	1
9	***	Spring, Stainless Steel (f/w 41611)	1
10	42133	Retainer Ring, Nickel Plated	1
11	***	Diaphragm, Viton (f/w 41611)	2
12	42134	Washer, Stainless Steel	2
13	42135	Seat Washer Retainer, Stainless Steel	1
14	***	Seat Washer, Viton (f/w 41611)	1
15	42136	Spacer, Stainless Steel	1
16	42137	Body, Polypropylene	1
17	42138	Stem, Stainless Steel	1
18	42139	Lower Diaphragm Piston, Stainless Steel ..	1
19	42140	Lower Diaphragm Housing, Stainless Steel ..	1
20	42883	Bottom Plate	1
21	42142	Rubber Boot	1
22	42143	Screw, Stainless Steel	4
23	42884	Close Nipple, Nylon	AR

*** 42873 Seal Kit, Viton AR

