



Commercial Front Plow System

# F12 / F14 Parts Manual



# DECALS

Decals

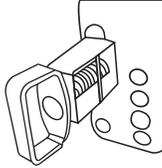
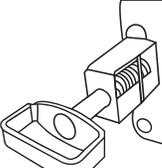
Sno-Power

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<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>	<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>		
1	SP-D-1	Transport Caution Decal	1	8	SP-D-5R	Removal Procedure Decal	1
2	SP-D-2-24	Made in Michigan Decal	1	9	SP-D-9	High Pressure	8
3	SP-D-4-24	Coupler Tower Decal	2			Nitrogen Cylinders Decal	
4	SP-D-3	Yellow Caution Decal	1	10	SP-D-12	Heavy Power Wire	2
5	SP-D-6	Pinch Point Decal	2			Warning Decal	
6	SP-D-5M	Mounting Procedure Decal	1	11	SP-D-7-24	Plow Angle	1
7	SP-D-8-24	Hitch Connection	1			Adjustment Decal	
		Switch Decal					

<b>⚠ WARNING</b>	
	Lower blade when vehicle is parked.
	Do not exceed GVWR or GAWR including blade and ballast.
<b>⚠ CAUTION</b>	
	Read Owner's Manual before operating or servicing snowplow.
	Transport speed should not exceed 45 mph (72km/h). Further reduce speed under adverse travel conditions.
	Plowing speed should not exceed 10 mph - 14 mph (16km/h to 22.5 km/h).
<b>WWW.</b>	See your sales outlet/Web site for specific vehicle application recommendations.



<b>⚠ CAUTION</b>	
	
LOCKED/ENGAGED	UNLOCKED/DISENGAGED



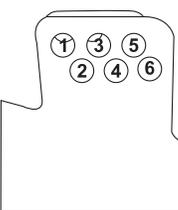
<b>Hitch Connection Switch</b>	
	
FORWARD	BACK

<b>SNOWPLOW MOUNTING PROCEDURE</b>	
<b>STEP 1</b> 	<b>STEP 2</b> 
<ul style="list-style-type: none"> <li>Line up the vehicle with the snowplow and drive towards the snowplow until the vehicle's front end is fully seated on the plow.</li> <li><b>WARNING:</b> Failure to complete this step properly could result in damage to the vehicle.</li> <li>Remove the electrical plug dust covers. Connect the electrical plug.</li> <li>Turn on the Handheld Controller. <b>Double Tap</b> the DOWN button to put the plow into FLOOT mode.</li> <li><b>Double Tap</b> the PLow Connect/Disconnect/Reset button for the Plow Connect/Disconnect/Reset. Controller panel lights will flash Blue and Red while in this mode.</li> </ul>	<ul style="list-style-type: none"> <li>Use the Hitch Connection Switch on the driver's side of the Coupler Tower to adjust the plow as necessary to align the plow pins for correct alignment.</li> <li>Lock pins into place to secure the plow to the vehicle undercarriage.</li> <li>Raise the Jack Stand on each side of the Coupler Tower, retracting to the highest position possible and secure with the ratchet pin.</li> <li>Use Handheld Controller to raise plow and re-engage all other plow functions.</li> </ul>

<b>SNOWPLOW REMOVAL PROCEDURE</b>	
<b>STEP 1</b> 	<b>STEP 2</b> 
<ul style="list-style-type: none"> <li>Retract both wings towards the vehicle and lower the snowplow to the ground.</li> <li><b>Double Tap</b> the DOWN button to put the plow into FLOOT mode.</li> <li><b>Double Tap</b> the PLow Connect/Disconnect/Reset button for the Plow Connect/Disconnect/Reset. Controller panel lights will flash Blue and Red while in this mode.</li> <li>Lower the Jack Stand on each side of the Coupler Tower to the lowest position possible and secure with the ratchet pin.</li> </ul>	<ul style="list-style-type: none"> <li>Use the Hitch Connection Switch to slightly adjust the Coupler Tower until the pin tension is loosened.</li> <li>Push the Hitch Connection Switch towards the snowplow until the Coupler Tower is detached from the truck mount.</li> <li>Remove the pins from their secured positions.</li> <li>Disconnect the electrical plug and install the dust covers.</li> <li>Back the vehicle away from the snowplow slowly.</li> </ul>

	DO NOT APPLY HEAT OR FLAME. EXPLOSION & INJURY MAY OCCUR.
<b>WARNING: OIL &amp; GAS UNDER HIGH PRESSURE</b>	
<b>⚠ DO NOT OPEN ⚠</b>	
375 W Hackley Ave Muskegon Heights, MI 49444 MAY BE COVERED BY US PATENT. WWW.SNO-POWER.COM/PATENTS	

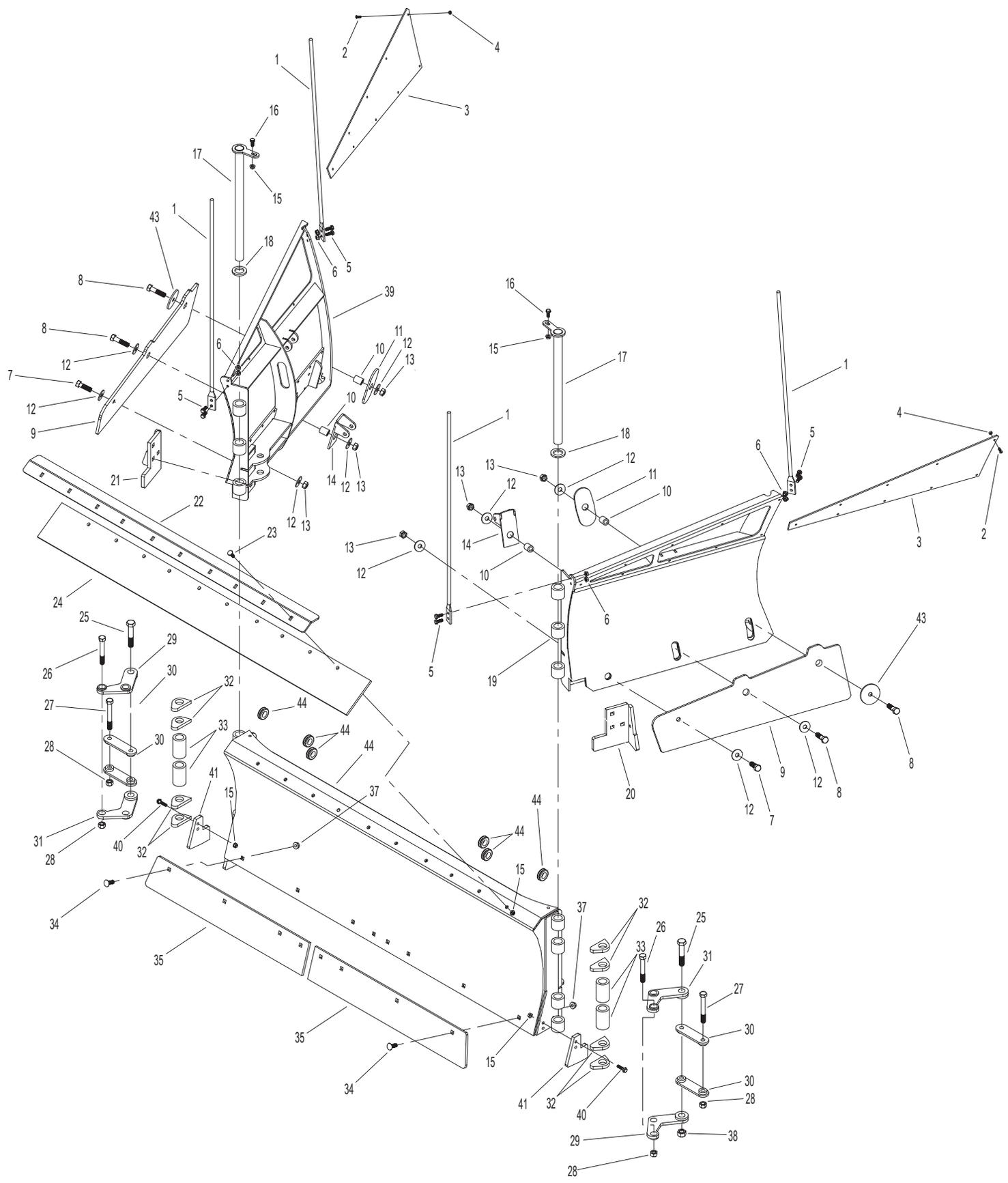
<b>WARNING</b>	<b>WARNING</b>
DO NOT USE WITH ANY OTHER BRAND. DAMAGE TO PLOW OR VEHICLE WILL OCCUR.	DO NOT USE WITH ANY OTHER BRAND. DAMAGE TO PLOW OR VEHICLE WILL OCCUR.
	

		<b>HIGHER NUMBER</b> = <b>HIGHER WING EDGES</b>
		<b>LOWER NUMBER</b> = <b>LOWER WING EDGES</b>
Scan QR code for Operator's Manual & Adjustment Tutorial Detailed Instructions & Warnings Refer To Page 19		

**BLADE ASSEMBLY**

Part Number	Description	Quantity	Part Number	Description	Quantity		
1	SP-100	Plow Markers (Set of 2)	2	24	SP-62	F12 Snow Deflector	1
2	0178057	1/4" x 3/4" Button Head	18		SP-82	F14 Snow Deflector	1
3	SP-37	Wing Window	2	25	12369	3/4"-10 x 4" Hex Cap Screw	2
4	70860	1/4" Nylock Nut	18	26	15321	5/8"-11 x 4-1/2" Hex Cap Screw	2
5	110-120326	5/16"-18 x 1-1/4"	8				
6	37184	5/16"-18 Nylock	8	27	15323	5/8"-11 x 5" Hex Cap Screw	2
7	15311	5/8"-11 x 2" Hex Cap Screw	2	28	37188	5/8"-11 Nylock Nut	4
8	15313	5/8"-11 x 2-1/2"	4	29	SP-17A-24	Front Bell Crank A	2
9	SP-30L-24	Left Wing Cutting Edge	1	30	SP-18	Front Bell Crank Lever	4
10	SP-383	Outer/Mid Cutting Edge Bushing	4	31	SP-17B-24	Front Bell Crank B	2
11	SP-36-24	3/8" Oval Washer	2	32	SP-22-24	F12 Hinge Limit Stop	8
12	33863	3/4" x 2" OD Washer	10	33	SP-24-24	F14 Hinge Limit Stop	8
13	37272	5/8"-11 Top Lock Nut	6	34	SP-25-24	Plastic Hinge Bushing	4
14	SP-35-24	Cutting Edge Cylinder Bracket (Shoe)	2	35	167158	1/2"-13 x 1-1/2" Shaker Screen Bolt	18
15	37341	3/8"-16 Serrated Flange Nut	16		SP-60	F12 Center Moldboard Cutting Edge	2
16	10366-05959	3/8"-16 x 1" Flange Serrated	2	36	SP-80	F14 Center Moldboard Cutting Edge	2
17	SP-20-24	Front Hinge Pin	2		SP-1-24	F12 Center Moldboard	1
18	SP-21-24	Wing Pin Shim	2	37	SP-2-24	F14 Center Moldboard	1
19	SP-3L-24	Left (Driver) Wing	1		95915	1/2"-13 Serrated Flange Nut	18
20	SP-32L	Left (Driver) Hinge Cutting Edge	1	38	37190	3/4"-10 Nylock Nut	1
21	SP-32R	Right (Passenger) Hinge Cutting Edge	1	39	SP-3R-24	Right (Passenger) Wing	1
22	SP-61	F12 Snow Guard Deflector Bracket	1	40	19709	3/8"-16 x 1-1/2" Hex Serrated Flange Bolt	4
	SP-81	F14 Snow Guard Deflector Bracket	1	41	SP-31	Center Hinge Cutting Edge	2
				42	SP-30R-24	Right Wing Cutting Edge	1
				43	SP-389-24	Cutting Edge Washer	2
23	21944	3/8"-16 x 1-1/4" Carriage Bolt	10	44	SP-E9	Rubber Grommet	6

# BLADE ASSEMBLY



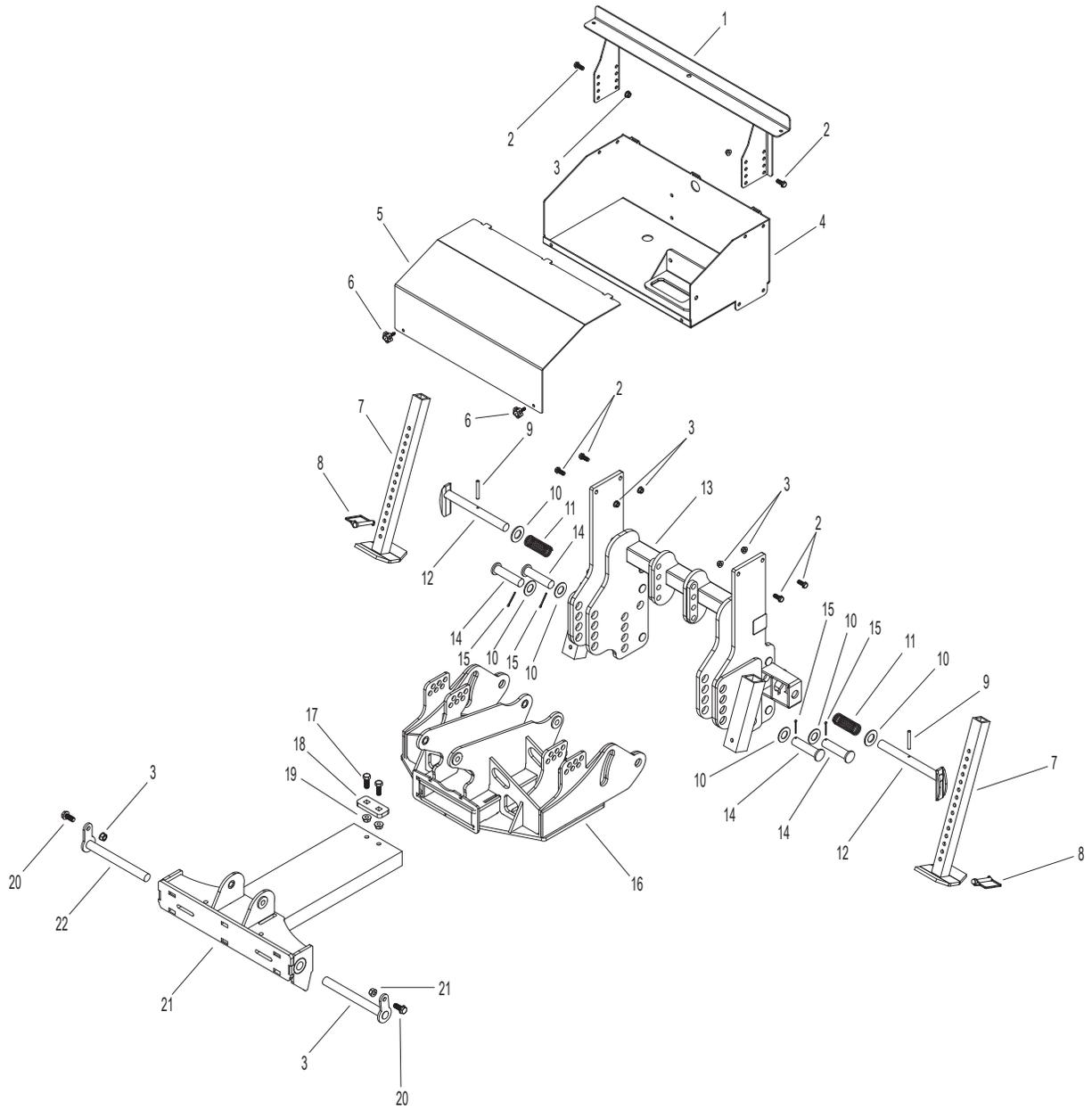
# TOWER ASSEMBLY

Tower Assembly

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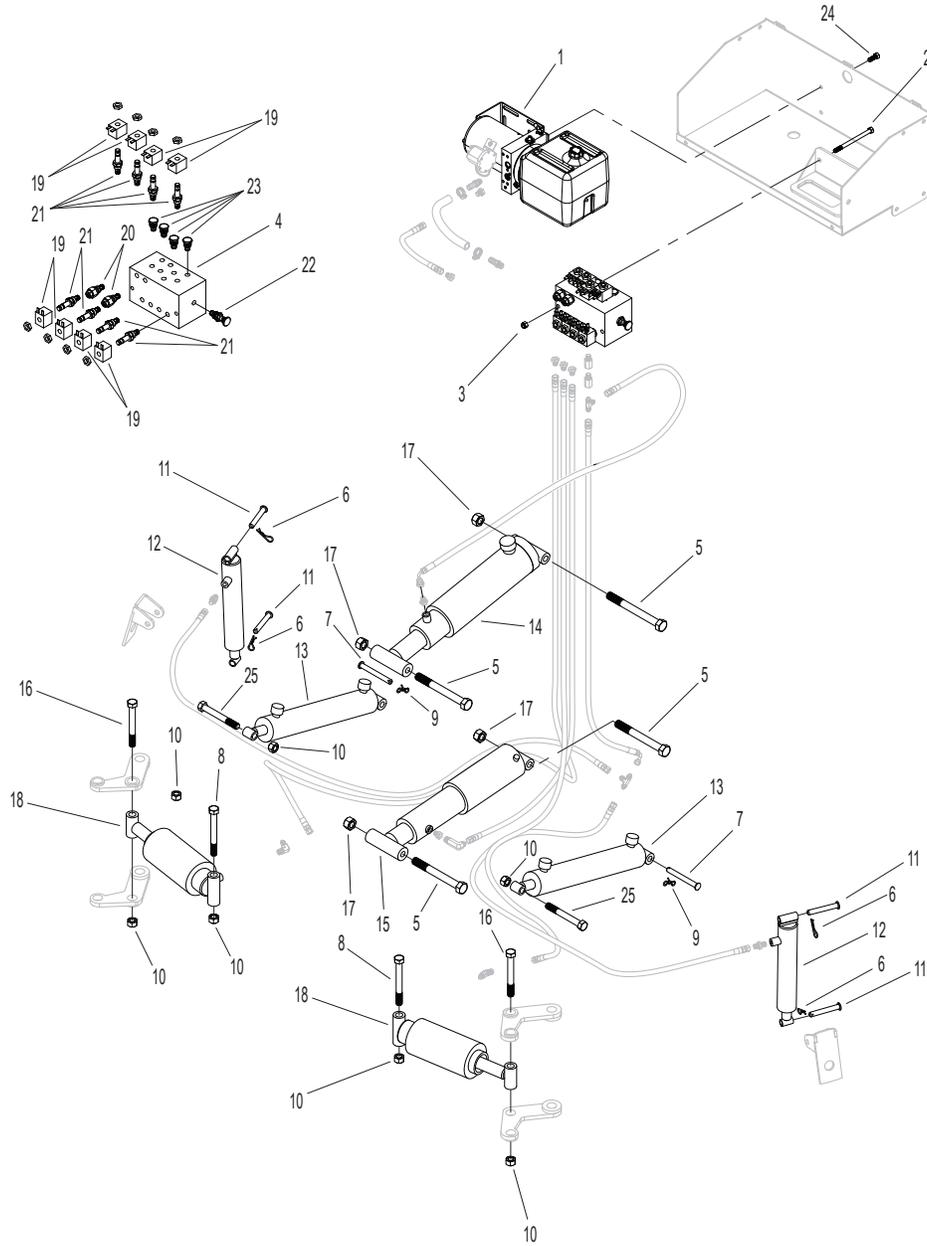
Tower Assembly			Sno-Power			
Part Number	Description	Quantity	Part Number	Description	Quantity	
1	SP-42-24	Coupler Tower Light Bracket	1	12 SP-46-24	Coupler Spring Pin	2
2	115105	3/8" x 1" Flange Bolt	8	13 SP-41-24	Coupler Tower	1
3	37341	3/8"-16 Serrated Flange Nut	10	14 120654	Clevis Pin 1" x 3"	4
4	SP-45-24	Hydraulic Unit Box	1	15 65105	Pin Clip	4
5	SP-43-24	Hydraulic Unit Cover	1	16 SP-12-24	Push Frame Receiver	1
6	SP-15313	1/4"-20 x 3/4" Knob	2	17 11589505	1/2"-13 x 1-1/4" Serrated Flange Bolt	2
7	SP-33-24	Jackstand	2	18 SP-16	Telescopic Stop	1
8	120680	Snapper Pin	2	19 95915	1/2"-13 Serrated Flange Nut	2
9	74333	1/4" x 2" Roll Pin	2	20 10366-05959	3/8"-16 x 1" Flange Serrated	2
10	111-22068	1' x 1-1/2" 10GA Bushing	6	21 SP-11-24	Push Frame	1
11	SP-47	Coupler Spring	2	22 SP-15-24	Plow Pivot Pin	2

# TOWER ASSEMBLY



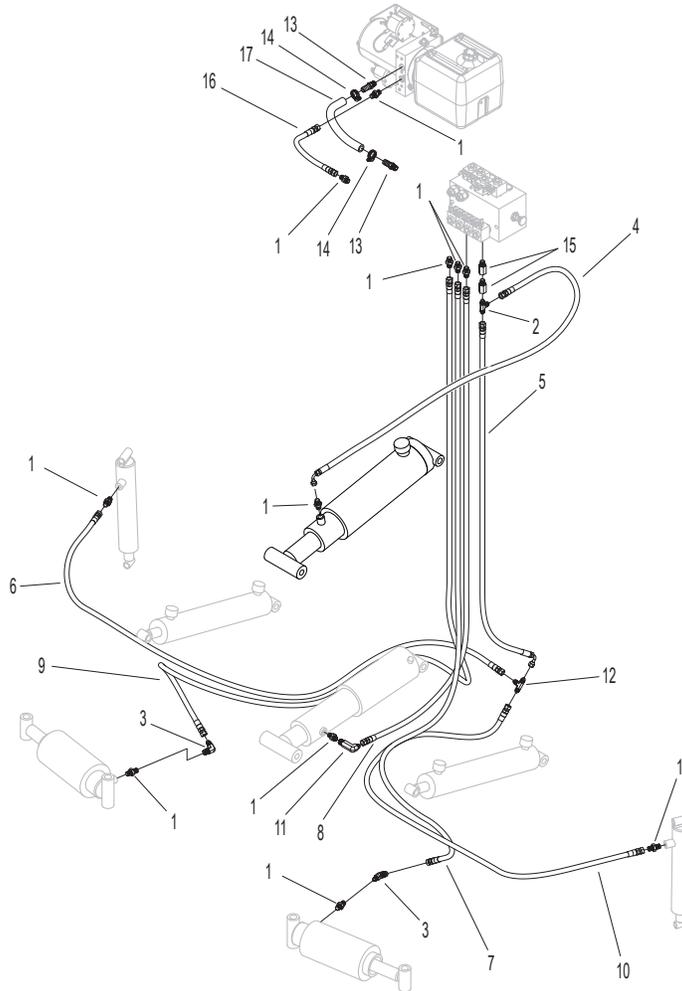
**HYDRAULIC COMPONENTS**

	<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>		<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
1	SP-PU-200	Hydraulic Pump	1	15	SP-93-24	Push Cylinder	1
2	15121	3/8" x 5" Hex Bolt	1	16	15324	5/8"-11 x 5-1/2" Bolt	2
3	37185	3/8" Nylock Nut	1	17	37272	5/8" Top Lock Nut	4
4	SP-PU-1	Hydro Manifold	1	18	SP-97-24	Wing Cylinder	2
5	15327	5/8"-11 x 7" Bolt	4	19	SP-PU-5	Hydro Coil	8
6	65103	5/32" x 1" Cotter Pin	8	20	SP-PU-2	Relief Valve	2
7	66152	5/8" x 4" Clevis Pin	4	21	SP-PU-4	Hydro Cartridge Valve	8
8	15325	5/8"-11 x 6" Bolt	2	22	SP-PU-6	Valve Flow Knob	1
9	11104498	Bow Tie Clip	2	23	SP-PU-3	Poppet Check Valve	4
10	37188	5/8"-11 Nylock Nut	5	24	10366-05959	3/8"-16 x 1"	
11	66121	1/2" x 3-1/2" Clevis Pin	4			Flange Serrated	1
12	SP-98-24	Outer Wing Cylinder	2	25	15323	5/8-11" x 5" Hex Cap Screw	2
13	SP-95-24	Stabilizer Cylinder	2	26	11104498	Bow Tie Clip	2
14	SP-91-24	Lift Cylinder	1				



**HOSE ASSEMBLIES & FITTINGS**

	<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>		<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
1	SP-HF5	Straight Hose Fitting	11	10	SP-H-31-12	Left Cutting Edge Hose (F12)	1
2	SP-HF2	Run Tee	1				
3	SP-HF4	90° Hose Fitting - Tall	2		SP-H-31-14	Left Cutting Edge Hose (F14)	1
4	SP-H-34	Lift Hose	1				
5	SP-H-35	Block Hose	1	11	SP-HF10	90° Hose Fitting	1
6	SP-H-39-12	Right Cutting Edge Hose (F12)	1	12	SP-HF3	Hydraulic Tee	1
	SP-H-39-14	Right Cutting Edge Hose (F14)	1	13	SP-HF6	Barb Hose Fitting (Pump)	2
				14	427992	Ear Clamp	2
7	SP-H-32-12	Left Wing Hose (F12)	1	15	SP-HF1	Hydraulic Adapter	2
	SP-H-32-14	Left Wing Hose (F14)	1	16	SP-H-36	Power Unit Hose	1
8	SP-H-33	Push Hose	1	17	SP-H-37	Return Hose	1
9	SP-H-38-12	Right Wing Hose (F12)	1				
	SP-H-38-14	Right Wing Hose (F14)	1				

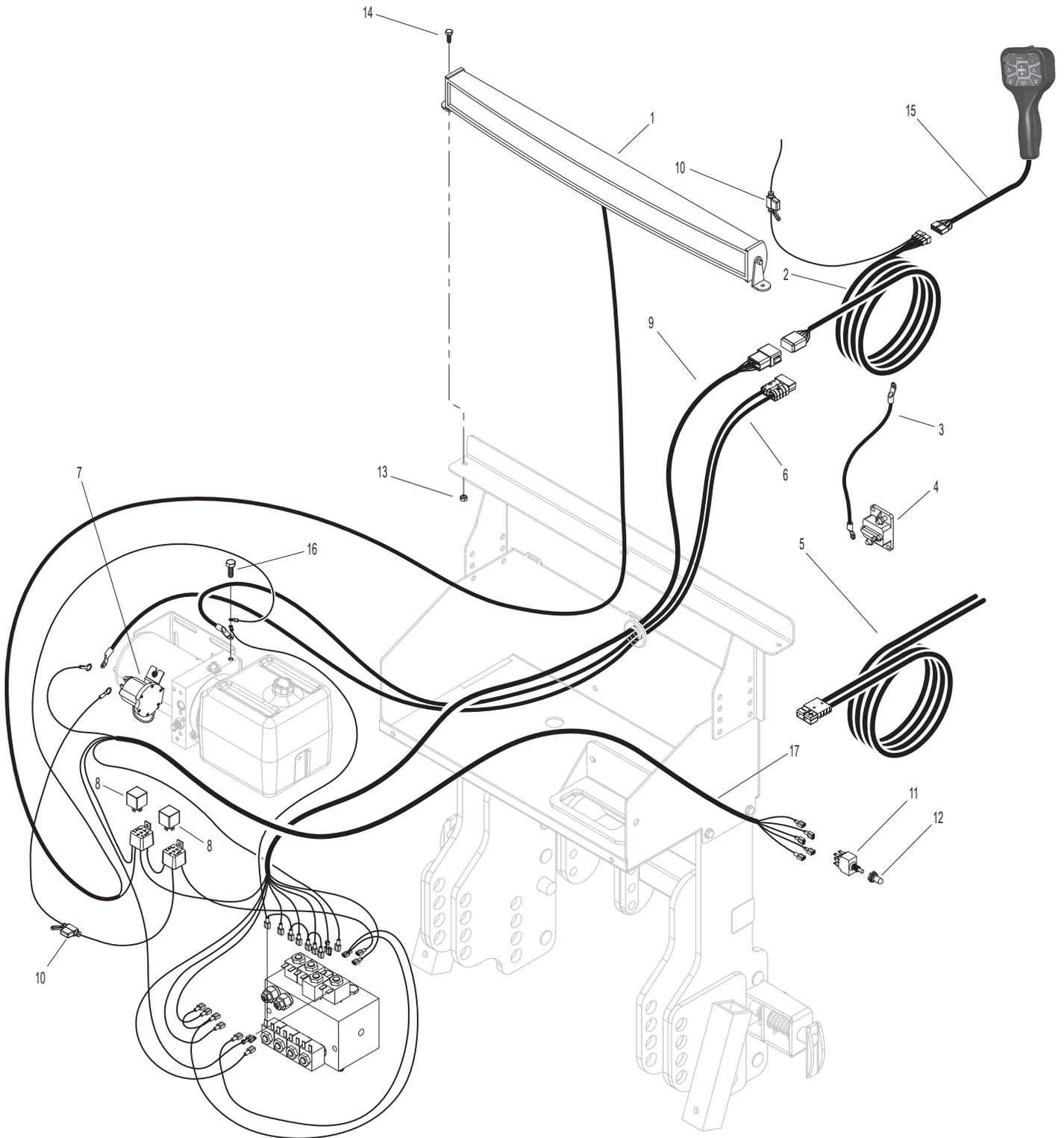


# ELECTRICAL

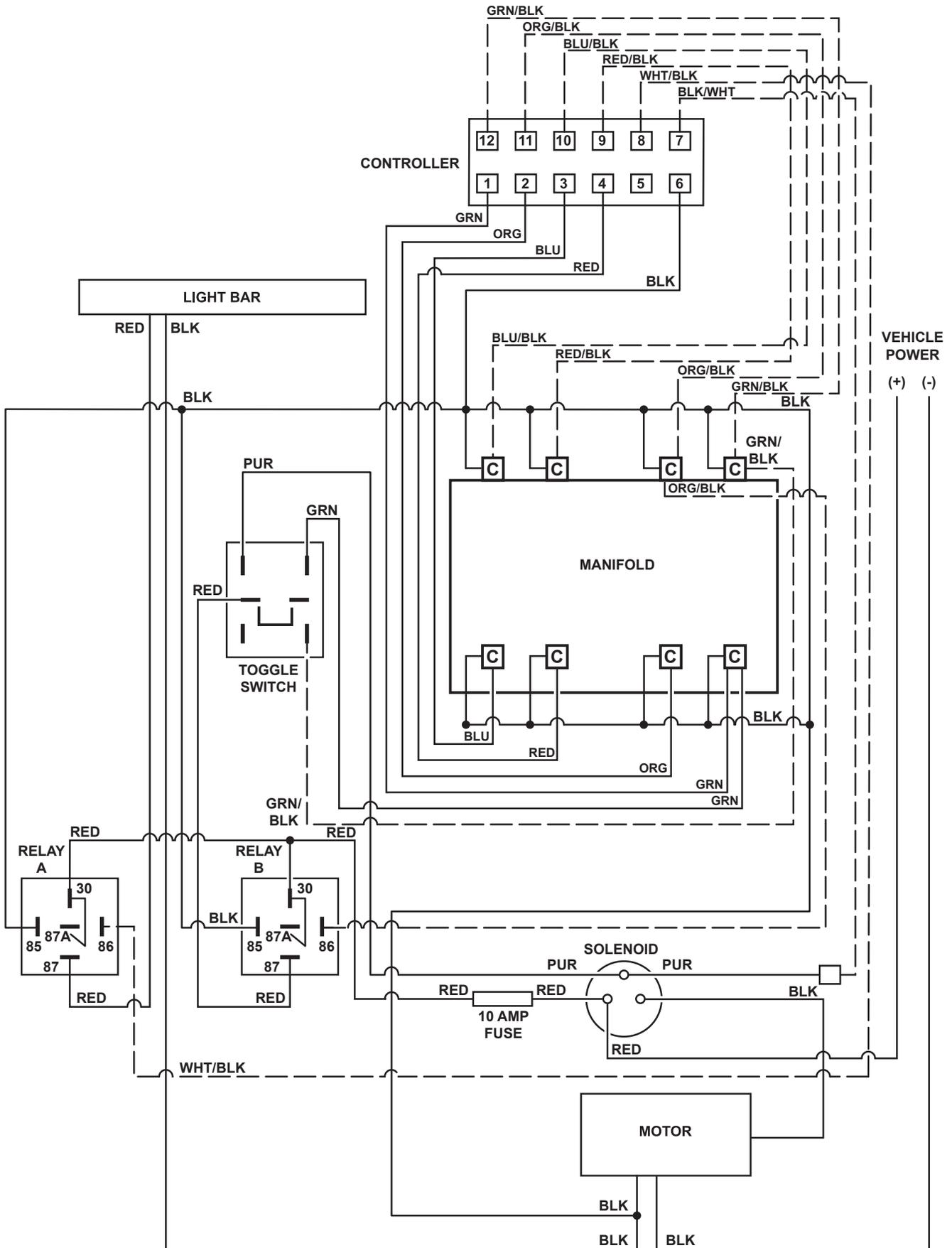
Electrical

Sno-Power

	<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>		<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
1	SP-E5	Lightbar	1	11	SP-E3	Hitch Connection Switch	1
2	SP-C11	Truck Control Wire	1	12	SP-E4	Hitch Connection Switch Cover	1
3	SP-HP1	Positive Breaker Cable	1				
4	SP-HP2	200 Amp Circuit Breaker	1	13	37258	M8-1.25 Nylock Nut	2
5	SP-HP7	Truck Heavy Power Cable	1	14	115105	M8-1" Hex Cap Screw	2
6	SP-HP4	Plow Heavy Power Cable	1	15	SP-C1	Handheld Controller Assembly	1
7	SP-PU-10	Solenoid	1				
8	SP-E2	Relay	2	16	1125445	5/16"-18 x 1-1/2" Hex Cap Screw	1
9	SP-C4	Plow Control Wire	1				
10	SP-FCF	10 Amp ATC Fuse	2	17	SP-E7	Switch Wiring Harness	1



# SCHEMATIC





**Muskegon, MI**