



Commercial Front Plow System

F12 / F14 Parts Manual



DECALS

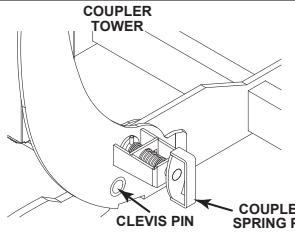
Decals

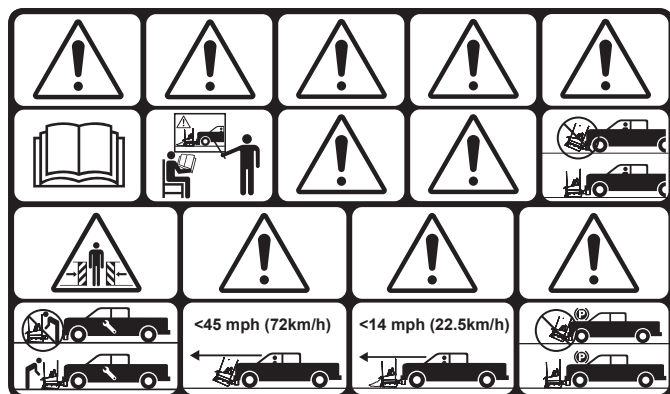
Sno-Power

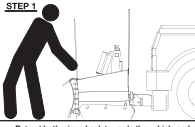
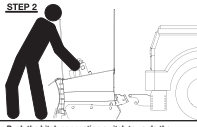
Part Number		Description	Quantity	Part Number		Description Quantity
1	SP-D-1	Transport Caution Decal	1	7	SP-D-8	Hitch Connection 1
2	SP-D-2	Made in Michigan Decal	1			Switch Decal
3	SP-D-3	Yellow Caution Decal	1	8	SP-D-9	High Pressure 9
4	SP-D-4	Coupler Tower Decal	2			Nitrogen Cylinders Decal
5	SP-D-5	Mounting Procedure Decal	2	9	SP-D-7	Plow Angle 1
6	SP-D-6	Pinch Point Decal	2			Adjustment Decal

⚠ WARNING	
	Lower blade when vehicle is parked.
	Do not exceed GVWR or GAWR including blade and ballast.
⚠ CAUTION	
	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).
WWW.	See your sales outlet/Web site for specific vehicle application recommendations.



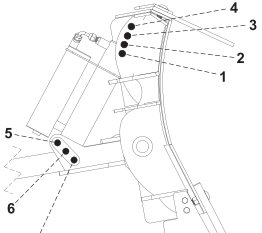
⚠ CAUTION

To mount the plow to the truck twist the spring pin to engage the pin, locking into position. To remove the plow from the truck. Pull pin and twist to disengage pin locking pin into out position.



SNOWPLOW MOUNTING PROCEDURE	
STEP 1  - Turn off the handheld controller. - Line up the vehicle with the snowplow and drive towards the snowplow until the pin contacts the push beam. - Remove the electrical plug dust covers. Connect the electrical plugs.	STEP 2  - Push the hitch connection switch towards the truck to raise the coupler tower until the coupler tower stops. - Release the hitch connection switch to stop movement of the coupler tower. - Twist the spring pins until they lock into place and raise the kickstands to the highest position possible.
SNOWPLOW REMOVAL PROCEDURE	
STEP 1  - Retract both wings back towards the vehicle and put the plow down and turn the handheld controller off. - Lower the kickstands on the wings in the lowest position possible. - Push the hitch connection switch towards the truck to raise the coupler tower and release the spring pins.	STEP 2  - Push the hitch connection switch towards the snowplow until the coupler tower completely lowers to the snowplow. - Disconnect the electrical plugs and install the electrical plug dust covers. - Back the vehicle away from the snowplow slowly.

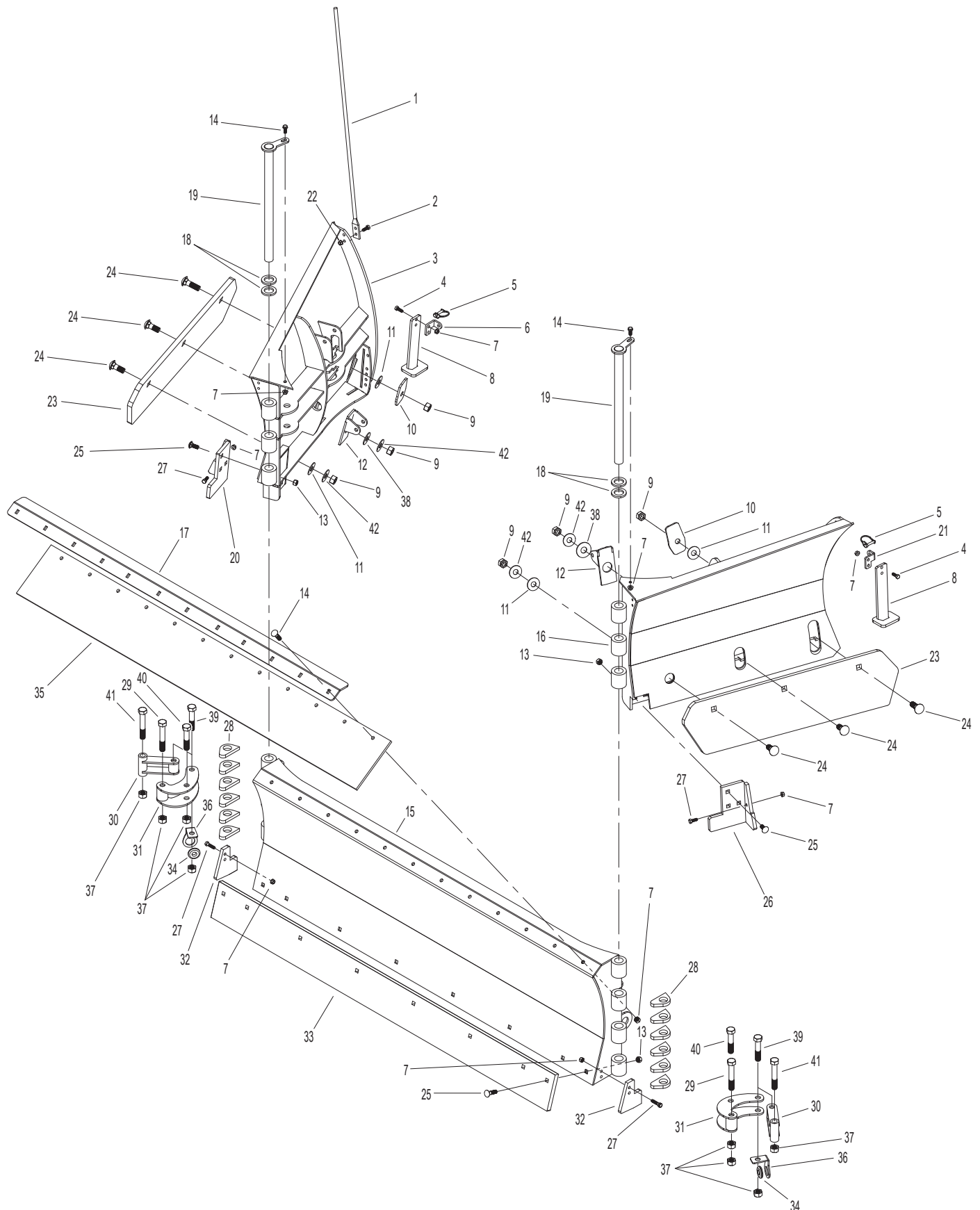
Hitch Connection Switch	UP ↑
	DOWN ↓

	DO NOT APPLY HEAT OR FLAME. EXPLOSION & INJURY MAY OCCUR.
	WARNING: OIL & GAS UNDER HIGH PRESSURE
⚠ DO NOT OPEN ⚠	
375 W Hackley Ave Muskegon Heights, MI 49444 Multiple US Patents Pending	

		HIGHER NUMBER = HIGHER WING EDGES
Scan QR Code for Operator's Manual Detailed Instructions & Warnings Refer To Page 19		LOWER NUMBER = LOWER WING EDGES

BLADE ASSEMBLY

Part		Description	Quantity	Part		Description	Quantity
Number				Number			
1	SP-100	Plow Markers (Sold in Pairs)	2	22	37021	5/16"-18 Nylock Nut	8
2	13057	5/16"-18 x 1" Bolt	8	23	SP-30	Wing Cutting Edge	2
3	SP-3R	Right (Passenger) Wing	1	24	167184	3/4"-10 x 2" Shaker	6
4	10366-05959	3/8"-16 x 1"	4			Screen Bolt	
		Flange Serrated		25	167158	1/2"-13 x 1-1/2"	14
5	120678	3/8" x 1-3/8" Snapper Pin	2			Shaker Screen Bolt	
6	SP-34R	Right (Passenger)	1	26	SP-32L	Left (Driver) Hinge	1
		Kick Stand Bracket				Cutting Edge	
7	37341	3/8"-16 Serrated	24	27	19709	3/8"-16 x 1-1/2" Hex	6
		Flange Nut				Serrated Flange Bolt	
8	SP-33	Kick Stand	2	28	SP-22	F12 Hinge Limit Stop	12
9	37274	3/4"-10 Top Lock Nut	6		SP-24	F14 Hinge Limit Stop	12
10	SP-36	3/8" Diamond Washer	2	29	12373	3/4"-10 x 5" Hex Cap Screw	2
11	SP-38	Small Cutting	4	30	SP-18	Front Bell Crank Lever	2
		Edge Bushing		31	SP-17	Front Bell Crank	2
12	SP-35	Cutting Edge Cylinder	2	32	SP-31	Center Hinge Cutting Edge	2
		Bracket (Shoe)		33	SP-60	F12 Center Moldboard	1
13	95915	1/2"-13 Serrated	14			Cutting Edge	
		Flange Nut			SP-80	F14 Center Moldboard	1
14	21944	3/8"-16 x 1-1/4"	14			Cutting Edge	
		Carriage Bolt		34	SP-E9	Rubber Grommet	2
15	SP-1	F12 Center Moldboard	1	35	SP-62	F12 Snow Deflector	1
	SP-2	F14 Center Moldboard	1		SP-82	F14 Snow Deflector	1
16	SP-3L	Left (Driver) Wing	1	36	SP-19	Main Board Hydraulic	2
17	SP-61	F12 Snow Guard	1			Hose Bracket	
		Deflector Bracket		37	37190	3/4"-10 Nylock Nut	6
	SP-81	F14 Snow Guard	1	38	SP-39	Large Cutting	2
		Deflector Bracket				Edge Bushing	
18	SP-21	Wing Pin Shim	4	39	12371	3/4"-10 x 4-1/2"	2
19	SP-20	Front Hinge Pin	2			Hex Cap Screw	
20	SP-32R	Right (Passenger) Hinge	1	40	12369	3/4"-10 x 4" Hex Cap Screw	2
		Cutting Edge		41	12375	3/4"-10 x 6" Hex Cap Screw	2
21	SP-34L	Left (Driver) Kick	1	42	33864	3/4" x 2" OD Washer	4
		Stand Bracket					

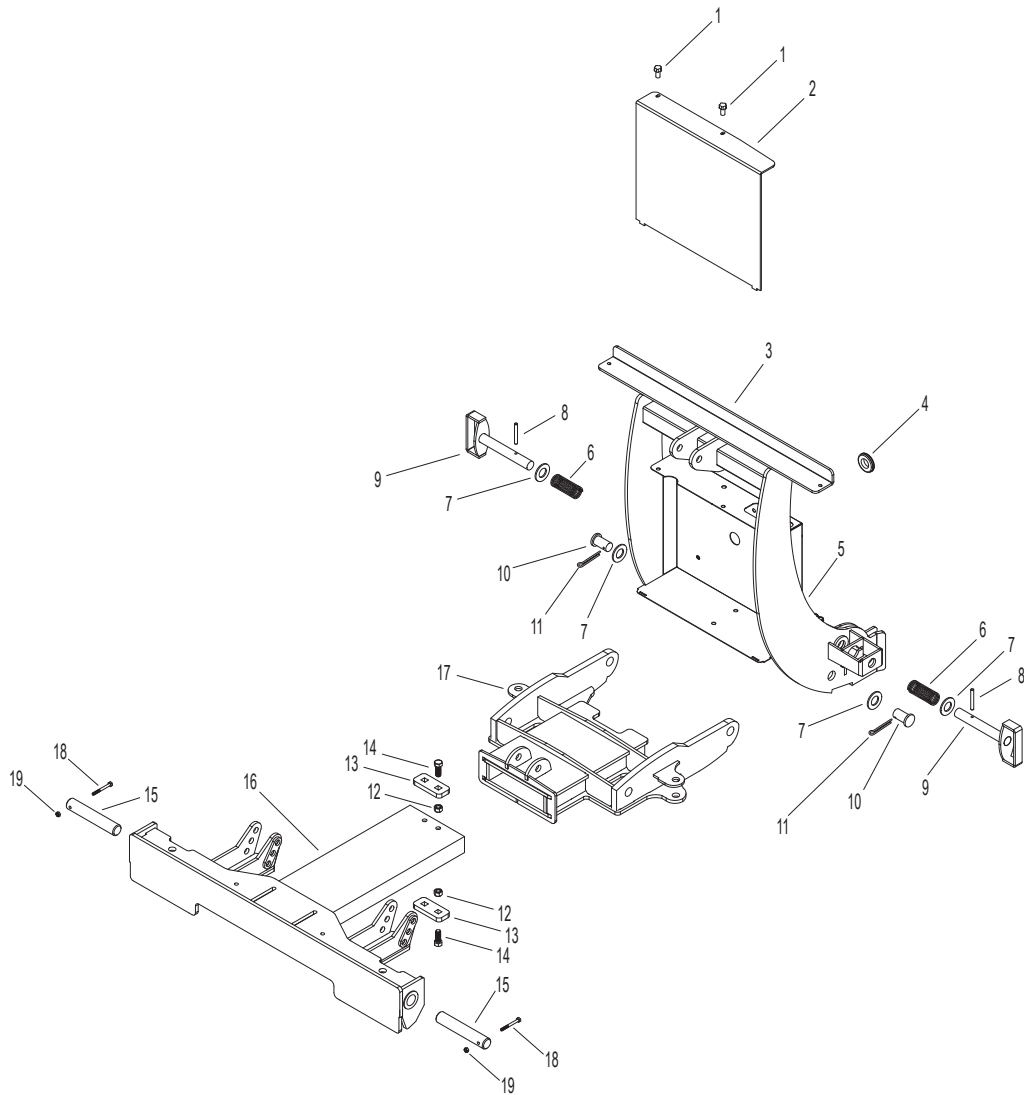


TOWER ASSEMBLY

Tower Assembly

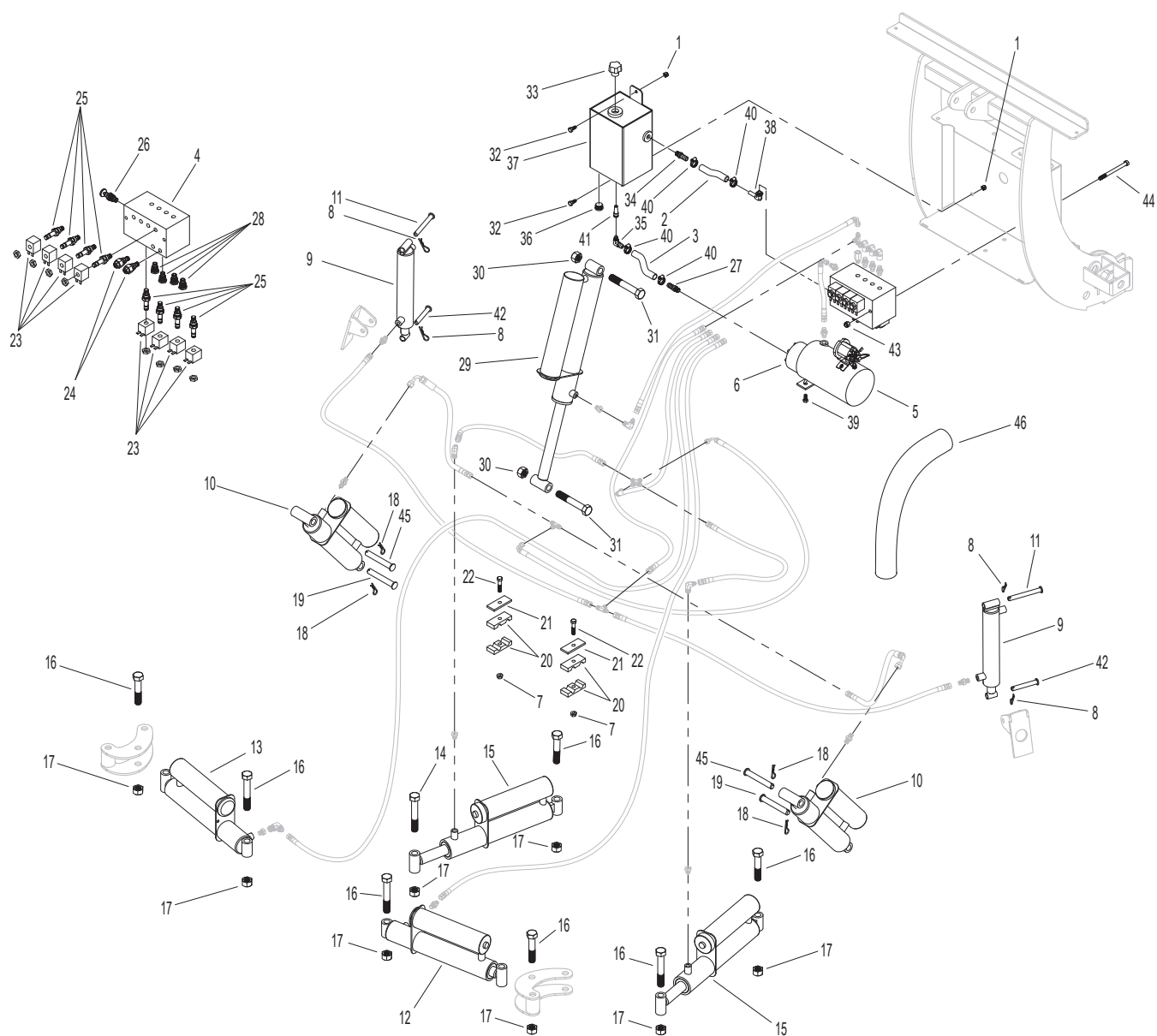
Sno-Power

Part Number		Description	Quantity	Part Number		Description	Quantity
1	SP-15313	1/4-20 x 3/4" Knob	2	12	95915	1/2"-13 Serrated	4
2	SP-43	Hydraulic Unit Cover	1			Flange Nut	
3	SP-42	Coupler Tower Light	1	13	SP-16	Telescopic Stop	2
		Bracket		14	11589505	1/2"-13 x 1-1/4"	4
4	SP-E9	Rubber Grommet	1			Serrated Flange Bolt	
5	SP-41	Coupler Tower	1	15	SP-15	Plow Pivot Pin	2
6	SP-47	Coupler Spring	2	16	SP-11	Push Frame	1
7	11122068	1" x 1-1/2" 10GA Bushing	4	17	SP-12	Push Frame Receiver	1
8	74333	1/4" x 2" Roll Pin	2	18	15013	1/4"-20 x 2-1/2"	2
9	SP-46	Coupler Spring Pin	2			Hex Cap Screw	
10	120653	1" x 2-1/2" Clevis Pin	2	19	37018	1/4"-20 Nylock Nut	2
11	156983	Zinc Hitch Pin Clip	2				



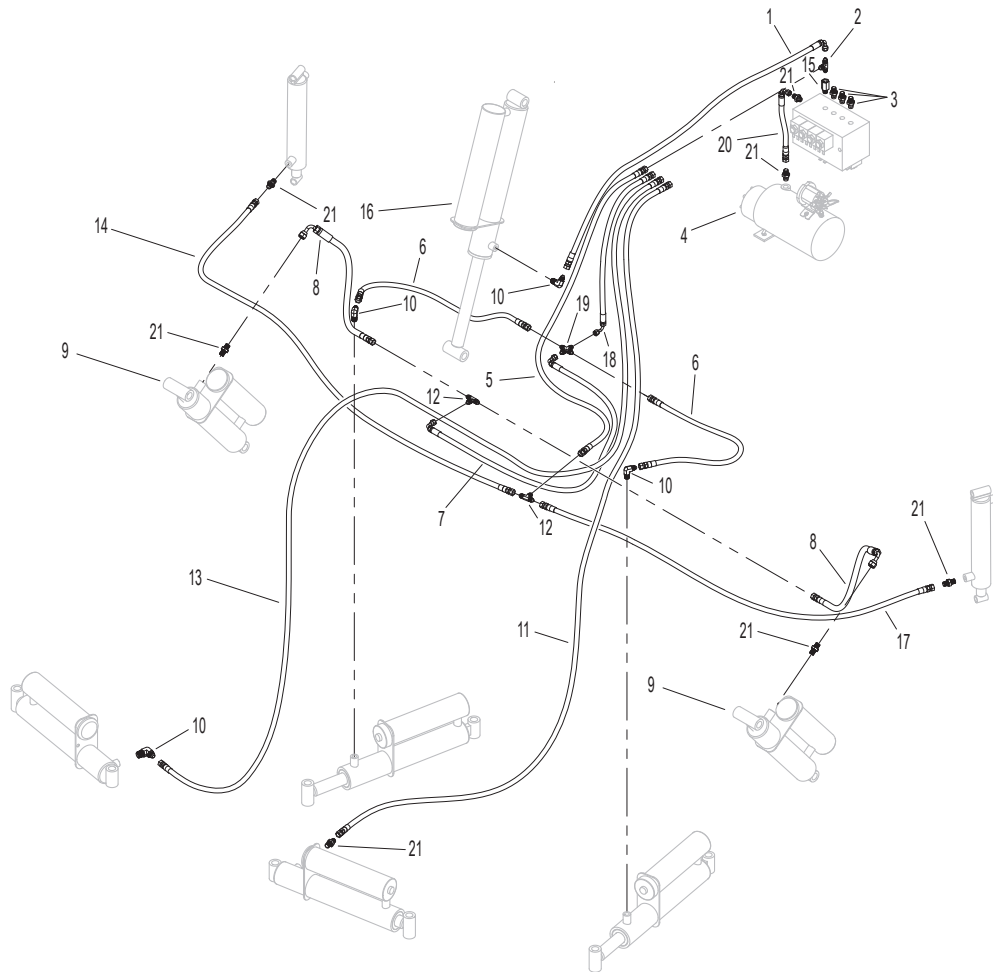
HYDRAULIC COMPONENTS

Part Number	Description	Quantity	Part Number	Description	Quantity
1	95911	1/4"-20 Serrated Flange Nut	22	19923	5/16"-18 x 2-1/4" Bolt
2	SP-HT5	Hydro Tank Side Hose	23	SP-PU-5	Hydro Coil
3	SP-HT4	Hydro Tank Bottom Hose	24	SP-PU-2	Relief Valve
4	SP-PU-1	Hydro Manifold	25	SP-PU-4	Hydro Cartridge Valve
5	SP-F21MTR	Front Plow Hydraulic Motor	26	SP-PU-6	Valve Flow Knob
6	SP-F21PMP	Front Plow Hydraulic Pump	27	SP-HF6	Barb Hose Fitting (Pump)
7	37339	5/16"-18 Nylock Nut	28	SP-PU-3	Poppet Check Valve
8	65103	5/32" x 1" Cotter Pin	29	SP-91	Lift Cylinder W/Accumulator
9	SP-98	Cutting Edge Cylinder	30	37188	5/8"-11 Nylock Nut
10	SP-95	Trip Cylinder	31	15323	5/8"-11 x 5" Hex Cap Screw
		W/Accumulator	32	11589191	1/4"-20 x 3/4" Hex
11	66121	1/2" x 3-1/2" Clevis Pin			Serrated Flange Bolt
12	SP-97L	Left (Driver) Wing Cylinder	33	SP-HT3	Hydro Tank Filler Cap
		W/Accumulator	34	SP-HF9	Hose Barb 1/2 (Tank)
13	SP-97R	Right (Passenger) Wing	35	SP-HF7	1/2 Hose Elbow (Tank)
		Cylinder W/Accumulator	36	SP-HT2	Magnetic Drain Plug
14	12371	3/4"-10 x 4-1/2"	37	SP-44	Hydro Tank
		Hex Cap Screw	38	SP-HF8	1/2 Hose Elbow (Manifold)
15	SP-93	Push Cylinder	39	10366-05959	3/8"-16 x 1" Flange Serrated
		W/Accumulator	40	427992	Ear Clamp
16	12369	3/4"-10 x 4" Hex Cap Screw	41	SP-HT1	Hydro Tank Suction Strainer
17	37190	3/4"-10 Nylock Nut	42	66120	1/2" x 3" Clevis Pin
18	156983	Zinc Hitch Pin Clip	43	37185	3/8"-16 Nylock Nut
19	66152	5/8" x 4" Clevis Pin	44	12121	3/8"-16 x 4-1/2" Hex
20	SP-HF21	F12 Hose Cushion			Cap Screw
	SP-HF21	F14 Hose Cushion	45	66154	5/8" x 5" Clevis Pin
21	SP-HF20	F12 Hose Hold Down	46	SP-FHS	Hose Sleeve
		Bracket			
	SP-HF20	F14 Hose Hold Down			
		Bracket			



HOSE ASSEMBLIES & FITTINGS

Part Number			Description	Quantity	Part Number			Description	Quantity
1	SP-LA-18		Lift A - Hydraulic Lift Hose - 18	1	11	SP-LW-51		F12 Left Wing Hose - 51	1
2	SP-HF2		Run Tee	1	12	SP-LW-56		F14 Left Wing Hose - 56	1
3	SP-HF4		90° Hose Fitting - Tall	3	13	SP-HF3		Hydraulic Tee	2
4	SP-F21PMP		Front Plow Hydraulic Pump	1	13	SP-RW-82		F12 Right Wing Hose - 82	1
5	SP-LB-51		Lift B - F12 Hydraulic Lift Hose - 51	1	14	SP-RW-108		F14 Right Wing Hose - 108	1
	SP-LB-56		Lift B - F14 Hydraulic Lift Hose - 56	1		SP-LC-75		Lift C - F12 Hydraulic Lift Hose - 75	1
						SP-LC-93		Lift C - F14 Hydraulic Lift Hose - 93	1
6	SP-PB-23		Push B - Hydraulic Push Hose - 23	2	15	SP-HF1		Hydraulic Adapter	1
7	SP-PE-46		Push E - Hydraulic Push Hose - 46	1	16	SP-91		Lift Cylinder W/Accumulator	1
8	SP-PD-17		Push D - Hydraulic Push Hose - 17	2	17	SP-LD-40		Lift D - Hydraulic Lift Hose - 40	1
9	SP-95		Trip Cylinder W/Accumulator	2	18	SP-PA-32		Push A - Hydraulic Push Hose - 32	1
10	SP-HF10		90° Hose Fitting	4	19	SP-HF11		Cross Fitting	1
					20	SP-PU-H		Power Unit Hose	1
					21	SP-HF5		Straight Hose Fitting	7

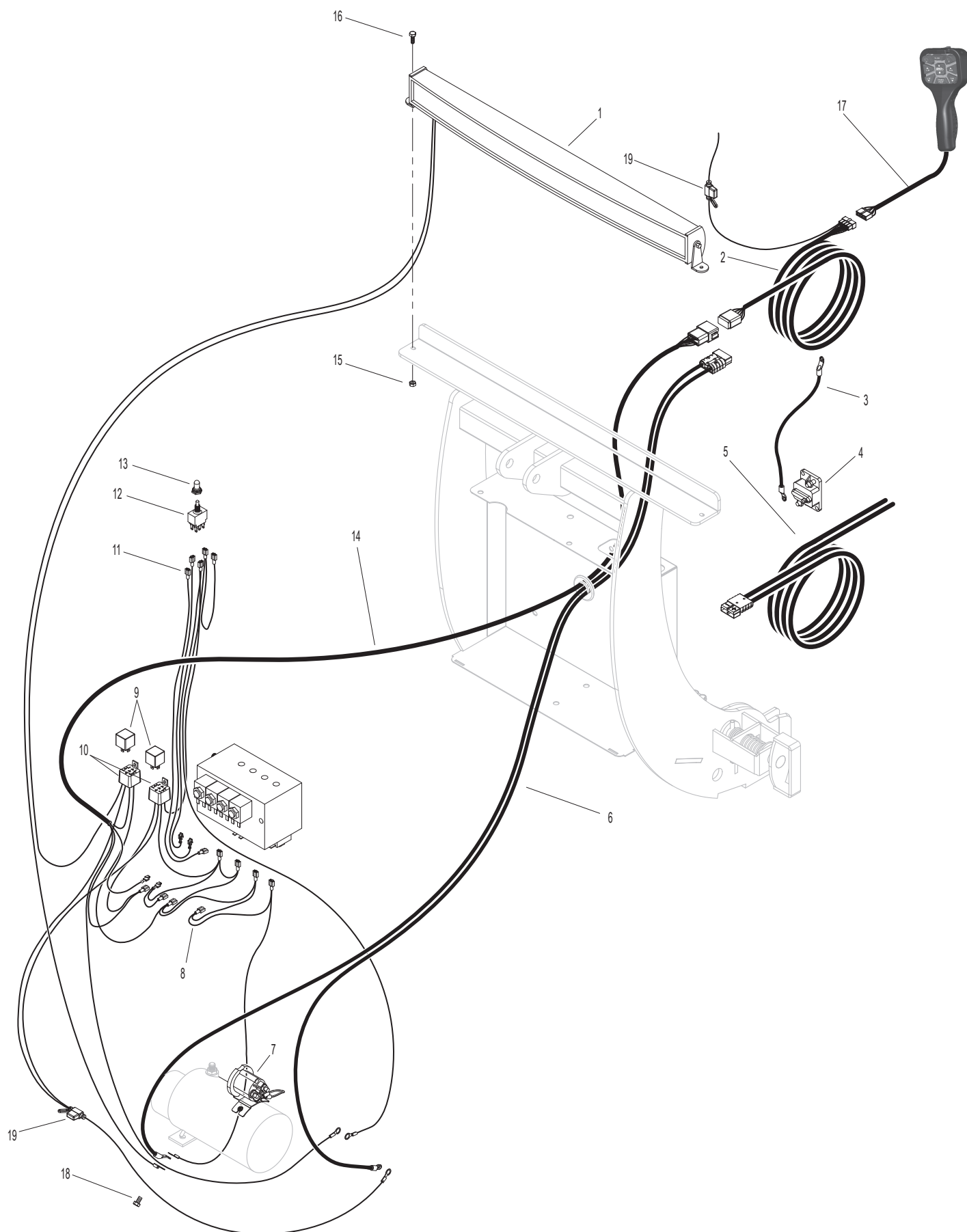


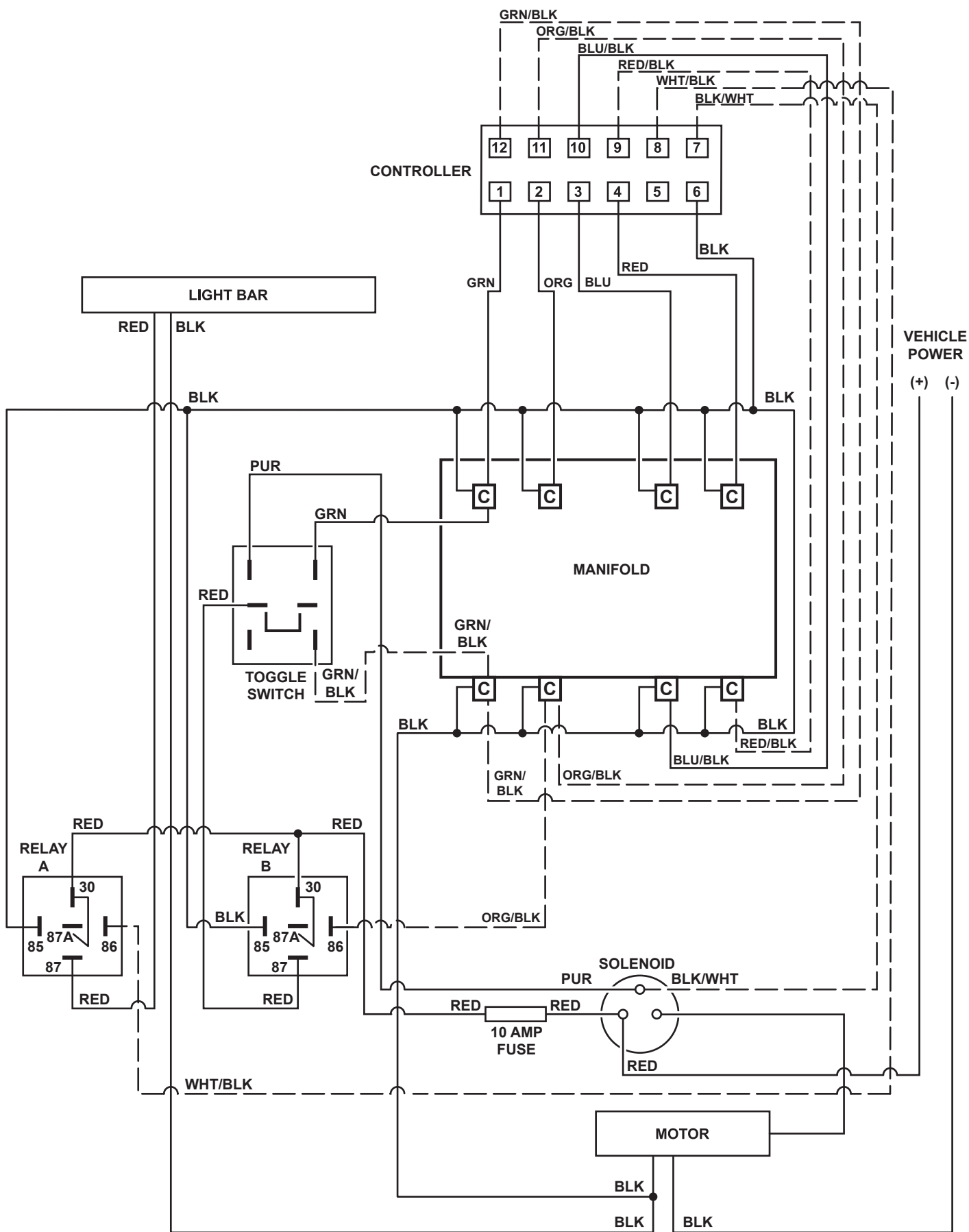
ELECTRICAL

Electrical

Sno-Power

	Part Number	Description	Quantity		Part Number	Description Quantity
1	SP-E5	Lightbar	1	13	SP-E4	Hitch Connection 1
2	SP-C11	Truck Control Wire	1			Switch Cover
3	SP-HP1	Positive Breaker Cable	1	14	SP-C4	Plow Control Wire 1
4	SP-HP2	200 Amp Circuit Breaker	1	15	95911	1/4"-20 Serrated Flange Nut 2
5	SP-HP7	Truck Heavy Power Cable	1	16	11589191	1/4"-20 x 3/4" Hex 2
6	SP-HP4	Plow Heavy Power Cable	1			Serrated Flange Bolt
7	SP-PU-10	Solenoid	1	17	SP-C1	Handheld Controller 1
8	SP-E8	Ground Wiring Harness	1			Assembly
9	SP-E2	Relay	2	18	32416	5/16"-18 x 3/4" 1
10	SP-E1	Relay Socket	2			Hex Cap Screw
11	SP-E7	Switch Wiring Harness	1	19	SP-FCF	10 Amp ATC Fuse 2
12	SP-E3	Hitch Connection Switch	1			





Muskegon, MI