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MODEL P40GPS DEICING CART Assembly & Operation Instructions



Assembly of Cart

The Model P40GPS cart is factory assembled, except for the tow hitch and wheels. Refer to the enclosed parts list.

- Secure the tow hitch to the frame w/ 3/8" hex bolts & nuts.
- Secure the axle to the frame w/ four 5/16" hex bolts, washers, nuts & clips. Slide a wheel spacer over the end ofeach axle end, then slide the wheel (valve stem out) onto the axle end. Secure w/ cotter pins. Slide the red plastic hub covers over hub.
- Install Castering Nosewheel.(optional)
- If an Immersion Heater is supplied, screw it tightly into the polyethylene tank fitting in the lower rear of the tank.

Important! Before use, you must add the proper grade and amount of oil to the engine crankcase and gasoline to the gas tank.

Component Manuals

Manuals covering the engine and Hypro roller pump are enclosed with these instructions. Please refer to these -- especially the engine manual -- prior to operating your cart.

Parts Lists

Parts for the Model P40GPS are available from Aircraft Deicing Systems. Diagrams showing the respective subassemblies are enclosed.

Warranty

The Model P40GPS is warranted against defects in materials

Technical Specifications

- Deicing cart mobility provided by ATV, tractor, etc.
- Heavy duty channel steel frame
- 2.5 HP, 4-cycle, recoil start engine
- Hypro #4101C 4 roller pump
- Pressure release valve
- Adjustable pump settings 0 to 150 PSI & 7.0 GPM
- Pressure gauge (0 200 PSI)
- 40 gallon polyethylene tank
- 25' of 3/8" ID high pressure hose
- GunJet aluminum handgun w/ 24" extension
- Large 13 x 500 6 pneumatic tubeless tires
- One year warranty

and workmanship for one year from shipment. Please contact the engine manufacturer, the pump manufacturer, or us for warranty remedy.

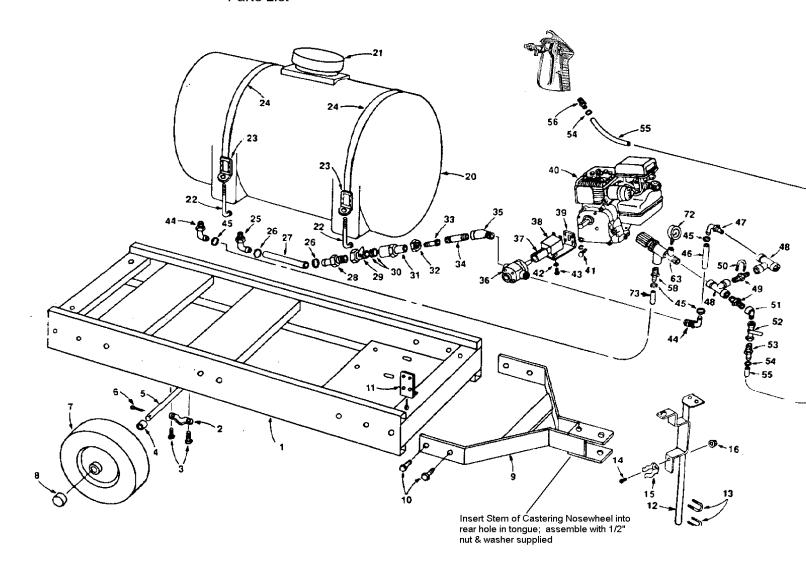
Operation of the Cart

Test the operation of the cart by filling & operating the unit with clean water. Follow the procedure below, increasing the pressure to 150 psi to thoroughly test the system, checking for proper operation and leaks. After testing, remove all water & fill the tank with deicing or anti-icing fluid. If deicing, use the attached adjustable nozzle, and adjust to suit; if anti-icing, remove the adjustable nozzle and install the enclosed fan-spray nozzle & cap.

To operate the Model P40GPS, simply:

- Place deicing or anti-icing fluid in the tank.
- Make sure the nylon valve in the fluid supply line (between the tank and pump) is open, and fluid has reached the pump.
- Turn the knob on the pressure valve outward to minimize the initial pressure upon startup.
- Start the engine per the manufacturer's instructions. Make sure the correct quantity of gas and oil are present before starting the engine.
- Adjust pressure as desired by turning the pressure valve knob (out to decrease pressure; in to increase) squeeze the handgun lever to begin operations.

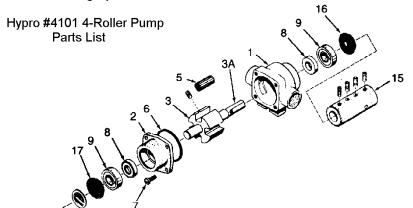
Aircraft Deicing Systems, Inc. Model P35GPS Parts List



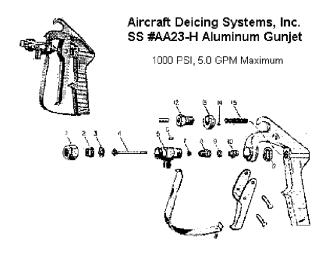
Ref.	Part No.	Qty.	Description	
1	5273259	1	Frame	
2	5053022	2	Clip	
3	5034069	8	Hex Cap Screw, 5/16" x 1-1/2"	
4	5127127	2	Wheel Spacer	
5	5024067	1	Axle	
6	5101077	2	Cotter Pin, 1/8" x 1"	
7	5021047	2	Wheel	
8	5046110	2	Hub Cap	
9	5273258	1	Tongue	
10	5034079	4	Hex Cap Screw, 3/8" x 1"	
11	5038400	1	Valve Stand Bracket	
12	5273299	1	Valve And Handgun Bracket	
13	5034197	2	Round U-Bolt, 1/4"	
14	5117234	1	Truss Head Screw, #10 - 24 x 1/2"	
15	5053083	1	Handgun Clip, Large	
16	5006186	1	Whiz Lock Nut, #10 - 24	
17	5272092	1	Parking Stand	
18	5046023	1	Сар	
19	5101065	1	Lock Pin	
20	5169125	1	Tank, 35 Gai.	
21	5058145	1	Lid	
22	5034298	4	Hook Bolt, 3/8" x 5"	
23	5108041	4	Buckle, Bent	
24	5133192	2	Nylon Strap, 52"	
25	5010028	1	Nylon Ell. 3/4" MNPT x 3/4" Barb	
26	5051024	2	Hose Clamp, 3/4" (5212)	
27	5020363	1	Hose, 3/4" — 2 Brd. x 13"	
28	5067028	1	Nylon Fitting, 3/4" MGHT x 3/4" Barb	
29	5143188	1	Nylon Bali Valve	
30	5016066	2	Garden Hose Washer	
31	5005170	1	Nylon Adapter, 3/4" FGHT x 1/2" FNPT	
32	5006055	1	Nylon 3/4" FGHT Cap	
33	5005150	1	Brass Swivel 1/2" MNPT	
34	5116240	1	Screen Assembly (30 M)	
35	5010192	1	Nylon St. Ell. 3/4" — 45°	
36	5273020	1	Pump (4101C)	
37	5005175	1	Coupler, 5/8"	
38	5271948	1	Shield	
39	5038340	1	Pump Mounting Bracket	
40	5152065	_ 1 _ 1	Engine	
41	5034121	4	Hex Cap Screw, 5/16" — N.F. x 3/4"	

Ref.	Part No.	Qty.	Description	
42	5016020	15	Flat Washer, 5/16"	
43	5034154	2	Hex Cap Screw, 5/16" x 5/8"	
44	50 10036	2	Nylon Ell, 3/4" MNPT x 1/2" Barb	
45	5051022	10	Hose Clamp, 1/2" (5208)	
46	5020152	1	Hose, 1/2" — 1 Brd. x 72"	
47	5010039	1	Nylon Ell. 1/2" MNPT x 1/2" Barb	
48	501 0113	2	Nylon "Tee", 1/2"	
49	5011054	3	Nylon Nipple, 1/2"	
50	5034063	1	Round U-Bolt, 5/16"	
51	50 10148	2	Nylon St. Ell. 1/2"	
52	5143197	2	Brass Ball Valve, 1/2"	
53	5067016	1	Nylon Fitting, 1/2" MNPT x 3/8" Barb	
54	5051021	2	Hose Clamp, 3/8" (5206)	
55	5020135	1	Hose, 3/8" — 1 Brd. x 25 Ft.	
56	5067005	1	Nylon Fitting, 1/4" MNPT x 3/8" Barb	
57	5271814	1	Gunjet SS #AA23-H Handgun	
63	5143331	1	Pressure Relief Valve	
72 73	5020123	1	Pressure Gauge, 200# Hose, 1/2" — 1 Brd. x 60"	

Aircraft Deicing Systems, Inc.



Ref.	Code No.	Quan.	Description	
1	5002351	1	Body w/Seal	
2	5017233	1	End Plate	
3	5172127	1	Rotor & Shaft Assy.	
3A	5118078	1	Shaft Only	
*5	Available In Kit Only Marked *			
*6	Available In Kit Only Marked *			
7	5117238 4 Endplate Screw			
*8	Available In Kit Only Marked *			
9	5031025	2	Ball Bearing (Sealed)	
15	5005175	1 .	Adapter Kit with four set screws	
16	5017480	1	Shaft Bearing Cover	
17	5017481	1	Rear Bearing Cover	
*	5168750	1	Repair Kit Marked *	



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Ref.	Code No.	Mfg's Part No.	Description
1 2	5046082 ⁻	CP7890-NP	Cap Brass Spray Tip (Order By No.)
3	5115025	CP7490 BRTF (
4	Available in	Kit Only	Main Stem Assembly
5	5002356	GP16052-NP	Inlet Body
6	5089030	CP7892-IZP	Kev
7	Available In	Kif Only	Packing Cup
8	5117137	CP16071-NP	Packing Screw
9	5006064	CP7484-SS	Stem Nut
10	50 77,009	CP7481-INP	Trigger Guide
12	5117138	CP9421-INP	Safety Lock
13	5045010	CP9422-AL	Safety Lock Cam
14	5117139	CP9423-1	Set Screw
15	Available In	Kit.Only	Main Spring
17	5006083	CP7486-IZP	Lock Nut

Pressure Relief Valve Parts Llst



Item	Code No.	Mfg's Part No.	Description
1	5272112	35 571- 1	Screw Pin Assembly
2	50 06084	1345-1	Locknut
· 3	5046044	13589	Cap
*4	Available I	n Kit Only	O Ring
*5	Available li	n Kit Only	Spring Guide
*6	Available In	n Kit Only	O Ring
*7	Available In	n Kit Only	Spring Retainer
*8	Available Ir	n Kit Only	Spring
*9	Available II	n Kit Only	Valve Seat
10	5002237	13896	Body
	5168438		Repair Kit Marked*