



OPERATOR'S / PARTS MANUAL



Dump Trailers **Models**

P-509

P-511

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INTRODUCTION

1

CONGRATULATIONS!

Thank you for choosing PRONOVOST. We are confident this equipment will meet your requirements in terms of quality, performance and reliability.

This manual was prepared to assist you in the safe operation of your new Dump Trailer. It contains important information which will help you achieve excellent returns with your PRONOVOST Dump Trailer for years to come.

Please read this manual before operating your Trailer and keep it for future reference.

Before using this equipment, you or any other person who will be using it must familiarize yourself with the safety recommendations, the operating and safety instructions. Please read carefully and be sure to understand and follow all recommendations and procedures.

In this manual, the right and left sides are identified while standing at the rear end of the equipment and facing it.

If you require additional information on your Dump Trailer, please contact your PRONOVOST Dealer.

NOW take a moment to enter the model, serial number and the date of purchase of your Trailer in the space provided below.

When ordering parts from your Dealer, please refer to these numbers for a fast and efficient service. Use PRONOVOST parts for replacement.

The model and serial numbers are on the name plate shown on Fig. 1.



Figure 1

MODEL: _____ ✍

SERIAL NO: _____ ✍

DATE OF PURCHASE: _____ ✍

SAFETY

GENERAL SAFETY

2

WHEN YOU SEE THIS SYMBOL



ATTENTION!

**BE ALERT
YOUR SAFETY IS INVOLVED**

This symbol "SAFETY ALERT" is used in this manual and on the safety decals on the Trailer. It warns you of the possibility of danger. Carefully read, understand and follow all safety recommendations before operating the equipment.

- 1) Careful operation is the best assurance against accidents. Carefully read this manual and follow all recommendations before operating this equipment. It is the owner's responsibility to make sure that anyone who will operate the Trailer will read this manual before operating the equipment.
- 2) Do not modify the equipment. Any non authorized modification may affect the efficiency and/or safety of the equipment.
- 3) Never operate the equipment with defective parts or if damaged in any way. Have it repaired before using it.
- 4) Make sure all fasteners are in place and properly secured or tightened. Refer to torque chart on page 20.
- 5) Hydraulic fluids under pressure can damage your

skin. Do not use your hands to locate a leak.

SAFETY IN OPERATION

- 1) **WARNING!** Do not overload your trailer, do not exceed the load capacity indicated in the specifications on page 12.
- 2) Be sure there are no obstructions around the equipment and that no one stands near the equipment when in use.
- 3) Do not operate an engine in a confined or non ventilated area.
- 4) Do not perform any adjustments, cleaning, maintenance or repairs with the engine running on the towing vehicle. Preferably remove the key from the ignition.
- 5) Be careful when backing-up, make sure you have good visibility.
- 6) Do not forget to unlock the proper panel before dumping.
- 7) Always travel at a safe operating speed following regulations and common sense. In the case of agricultural service tires, follow the manufacturer's specified safe speed. The road speed should be such as to maintain full control over steering and braking.

SAFETY (cont'd)

SAFETY WITH MAINTENANCE

- 1) Perform maintenance according to recommendations contained in this manual.
- 2) **Before performing any work under the raised platform, always install the safety support provided.**
- 3) If the trailer is hooked up to the tractor while performing maintenance work, make sure the engine is not running and preferably remove the ignition key.

SAFETY IN TRANSPORT

- 1) On public roads, use proper safety lights and check local regulations.

- 2) Be alert while driving on the road. Never carry passengers.

SAFETY IN STORAGE

- 1) If the trailer is to be stored for a certain period of time, install wooden blocks under the axles. **THIS WILL AVOID ANY ACCIDENTAL CRUSHING OF ANIMALS OR ANYONE WHO COULD CRAWL UNDER THE EQUIPMENT.**

2

DECALS

SAFETY DECALS

The safety decals are affixed wherever special safety precautions are indicated. Locate them on the equipment and read them carefully. If a decal is damaged, lost or illegible, install a new one. The following photos indicate where each one must be installed.

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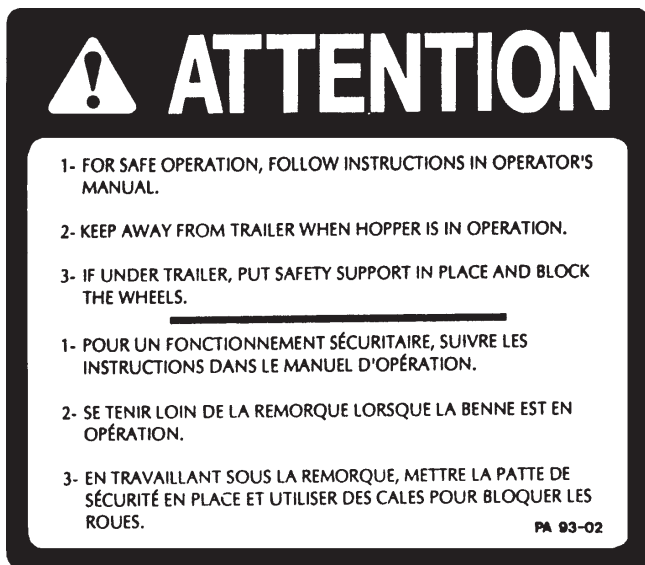


Figure 2
Decal A

Part no.: A110



Figure 3

MAINTENANCE DECALS

The maintenance decals indicate the points requiring lubrication. Refer to maintenance section for more details.

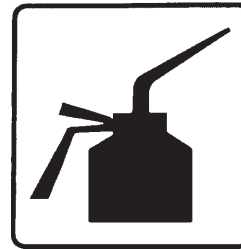


Figure 4

Part no.: A 105



Figure 5

Part no.: A 106

START-UP

BASIC START-UP PROCEDURES

- 1) Lubricate all grease fittings with a good quality multiuse grease.
- 2) Lubricate panel release mechanism, front and rear with good quality oil.
- 3) Adjust tire pressure to manufacturer's specifications.
- 4) Install wheels on hubs.
- 5) Install panels.
- 6) Install all hydraulic hoses and fittings compatible with your equipment.
- 7) Verify for adequate tightness of all fastening devices. Refer to torque chart on page 20.
- 8) Operate the hydraulic system a few times, raising and lowering the platform in order to remove any trapped air in the system. Then check the oil level in the tractor's hydraulic oil reservoir.
- 9) Do not forget to unlock the proper panel before dumping.

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MAINTENANCE

Before performing any work under the raised platform, always install the safety support provided.

- 1) Wipe off all grease fittings with a clean cloth before adding grease in order to avoid injecting dirt or sand.
- 2) Repair or replace damaged grease fittings.
- 3) Lubricate all grease fittings every 20 hours of operation.
- 4) Check all bolts on wheels after first 5 hours of operation and then every 50 hours of operation.
- 5) Lubricate panel release mechanism, front and rear, every 20 hours of operation.
- 6) Check tire pressure every 50 hours of operation, adjust according to manufacturer's recommendation indicated on the tires.
- 7) Open, clean and lubricate wheel bearings once a year.
- 8) Check all nuts and bolts once a year. If necessary use torque chart on page 20.

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STORAGE

- 1) Store in a cool, dry place.
- 2) Install wooden blocks under the axles to keep the tires off the ground and cover them if left exposed to the sun.
- 3) Keep all piston rods in the retracted position. This will assure better protection against the elements.
- 4) Clean your trailer.
- 5) Thoroughly inspect all parts of the trailer. Replace or repair worn or defective parts.
- 6) Touch-up or repaint if necessary.
- 7) Lubricate all points before storage.

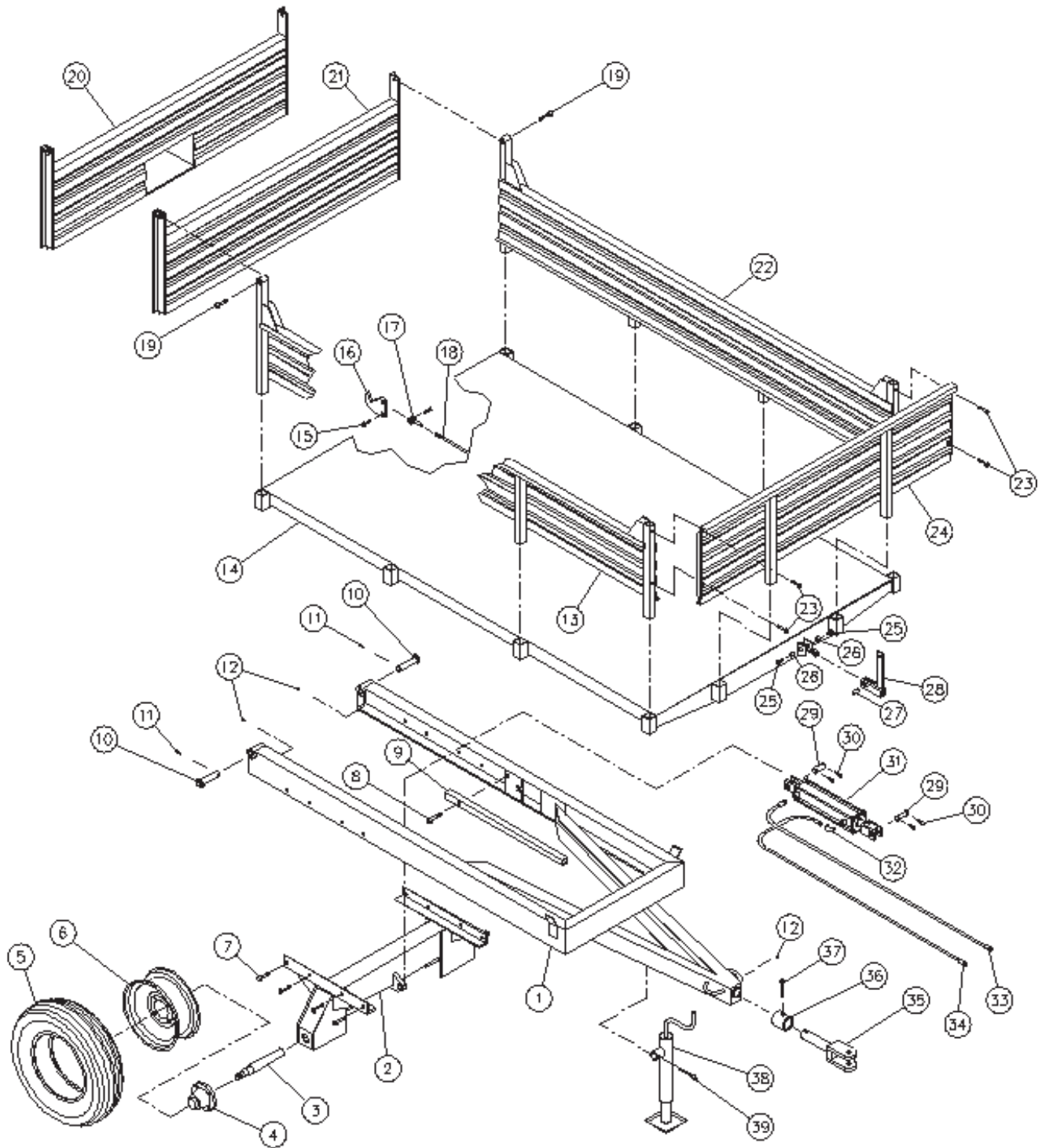
SPECIFICATIONS

SERVICE	AGRICULTURAL	AGRICULTURAL
MODEL	P-509	P-511
Capacity	8000 lbs / 3632 kg	10000 lbs / 4540 kg
Interior dimensions of box	65" x 106" / 1651 mm x 2692 m	65" x 106" / 1651 mm x 2692 mm
Thickness (bottom of the box)	3/16" / 4.78 mm	3/16" / 4.78 mm
Height: Side panel 12G *	14" / 356 mm	14" / 356 mm
Height: Front/back panel 12G *	19" / 483 mm	19" / 483 mm
Platform height	35" / 889 mm	35" / 889 mm
Overall length	147" / 3734 mm	147" / 3734 mm
Overall width	70" / 1778 mm	70" / 1778 mm
Overall height	50" / 1270 mm	50" / 1270 mm
Free height / maximum lift	14" / 356 mm	14" / 356 mm
Thread width	51" / 1295 mm	51" / 1295 mm
Dumping angle (back)	47°	47°
Dumping angle (2 sides)	--	--
Axle	Simple	Tandem
Suspension	--	--
Grain door	Option	Option
Hubs	6 bolts	6 bolts
Hub capacity	5000 lbs / 2270 kg	5000 lbs / 2270 kg
Spindles	2" / 51 mm	1 3/4" / 44 mm
Wheels	2	4
Wheel dimensions	15 x 8 x 6	15 x 6 x 6
Tires (standard)	11L15 (8 ply)	9,5L15 (8 ply)
Hitch: clevis/swivel	standard	standard
Hitch: ball coupler	opt. 2 5/16" / 59 mm	opt. 2 5/16" / 59 mm
Electric brakes	--	--
Light system (12 V)	--	--
Oil / volume required	--	--
Cylinder	2 double acting	2 double acting
Hitch weight (empty)	135 lbs / 61 kg	135 lbs / 61 kg
Total weight	1815 lbs / 824 kg	1890 lbs / 858 kg

* Removable panels.

Design and specifications subject to change without notice.

DUMP TRAILER P-509



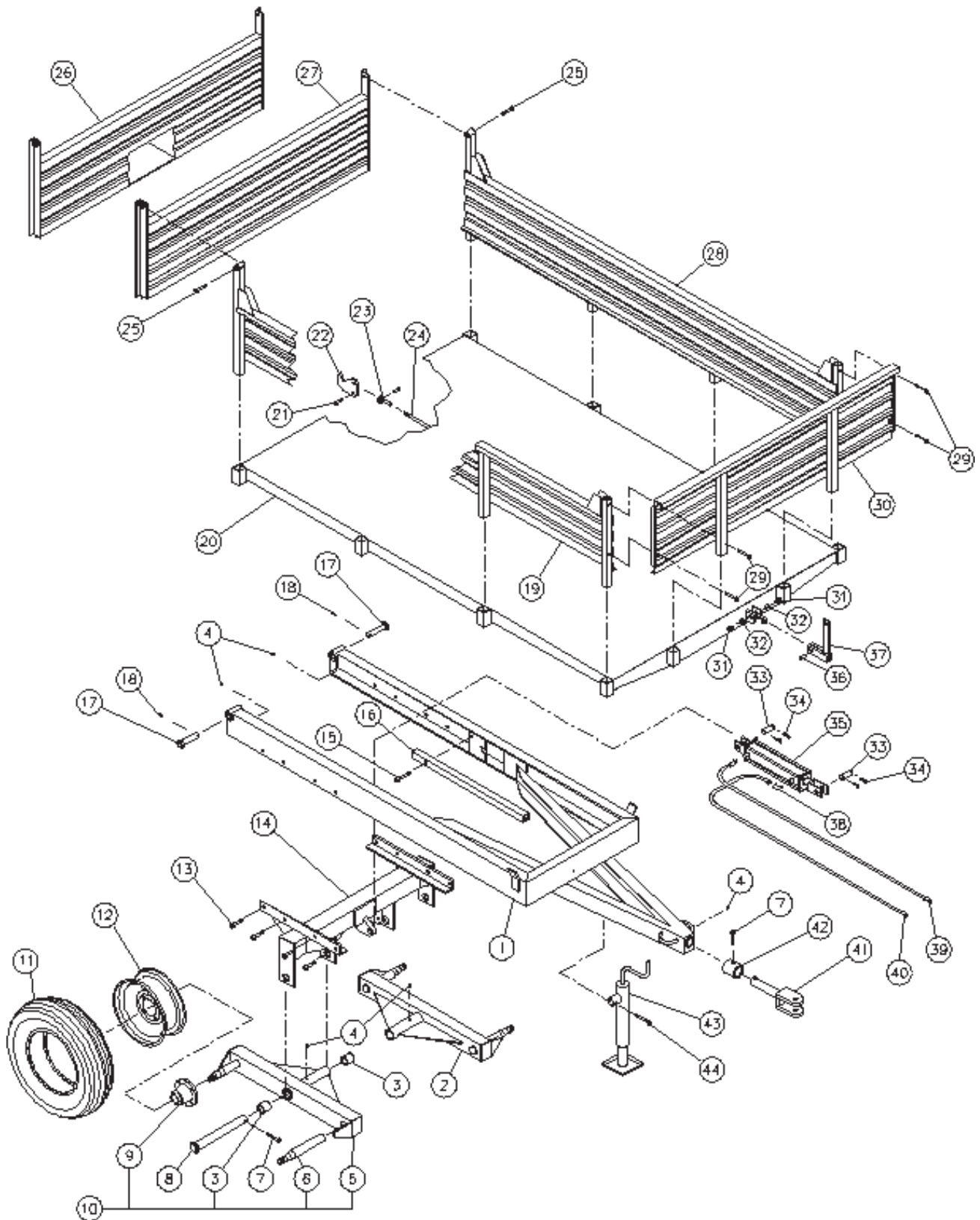
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DUMP TRAILER P-509

REF.	PART #	DESCRIPTION	QTY
1	120-01141	Main frame	1
2	110-08961	Cross-beam (from serial number 5541 and up)	1
3	150-00311	Axle 2" ø (welded)	2
4	51441	Complete hub assembly H-5000	2
5	PN11L15	Tire 11L15 8-ply with tube	2
6	R1586	Rim 15" x 8" - 6 holes	2
7	Std.	Bolt 1/2" NC x 1 1/2" lg + nylon locknut	8
8	Std.	Bolt 5/8" x 2 1/2" lg + nylon locknut	1
9	160-04721	Safety support	1
10	110-08971	Clevis 1" ø x 5 1/4" lg	2
11	Std.	Cotter pin 3/16" x 2" lg	2
12	Std.	Grease fitting 1/4" - 28 straight	3
13	110-03741	Right side panel	1
14	120-01151	Platform	1
15	Std.	Bolt 1/2" NC x 2" lg + nylon locknut	1
16	130-09991	Rear panel lock	1
17	51435	Yoke 1/2" NF + nut 1/2" NF + clevis 1/2" ø x 1 3/4" lg & cotter pin 1/8" x 3/4" lg	1
18	110-03711	Rod 1/2" for rear panel lock	1
19	Std.	Bolt 1/2" NC x 3 1/2" lg + nylon locknut	2
20	120-01111	Rear panel with grain door	1
21	110-03731	Standard rear panel	1
22	110-03742	Left side panel	1
23	Std.	Bolt 3/8" NC x 2 1/2" lg + nylon locknut & flat washer	4
24	110-03751	Front panel	1
25	Std.	Bolt 1/2" NC x 1" lg + lock washer	2
26	160-04731	Spacer 33/64" i.d. x 27/32" o.d. x 1/2" lg	2
27	150-01831	Pin 1/2" ø x 1 1/4" lg	1
28	110-08981	Lever for rear panel locking mechanism	1
29	150-01841	Clevis pin 1" ø x 3 1/8" lg	2
30	Std.	Hitch pin clip 3/16"	4
31	35TR20	Cylinder 35TR20	1
32	Std.	Elbow 90° x 1/2" NPT - MF	1
33	190-00661	Hose 3/8" x 158" lg + 2 fittings 6U-108	1
34	190-00651	Hose 3/8" x 170" lg + 2 fittings 6U-108	1
35	110-08991	Swivel hitch	1
36	160-04741	Ring	1
37	Std.	Bolt 1/2" NC x 3"lg + nylon locknut	1
38	51407	Jack	1
39	51408	Pin for jack	1



DUMP TRAILER P-511



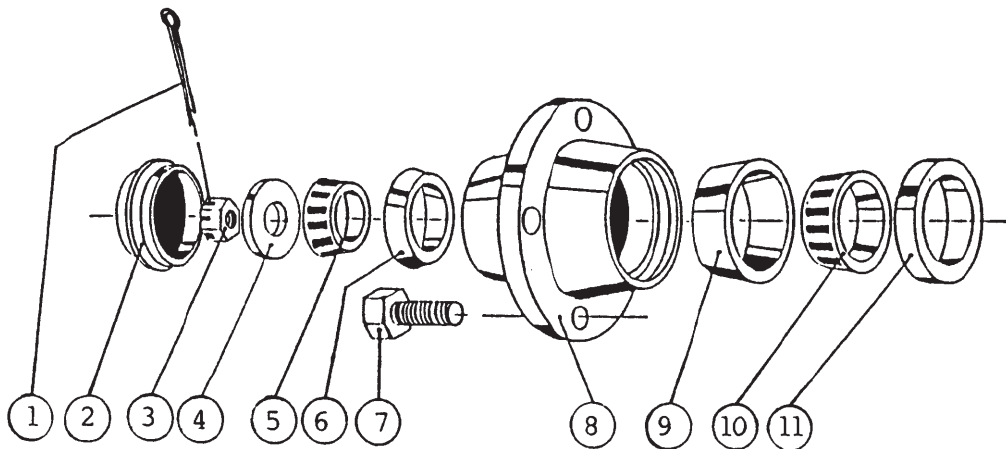
DUMP TRAILER P-511

REF.	PART #	DESCRIPTION	QTY
1	120-01141	Main frame	1
2	110-09001	Left tandem frame	1
3	160-01091	Brass bushing 1 3/4" d.i. x 2" d.e. x 2" lg	4
4	Std.	Grease fitting 1/4" - 28 straight	5
5	110-09002	Right tandem frame	1
6	150-01851	Axle 1 3/4" ø x 11 9/16" lg (welded)	4
7	Std.	Bolt 1/2" NC x 3" lg + nylon locknut	3
8	110-00011	Pin for tandem 1 3/4" ø x 15 1/4" lg	2
9	51503	Complete hub assembly H-4000	4
10	110-09011	Right tandem assembly	1
NI*	110-09012	Left tandem assembly	1
11	PN-9.5L15	Tire 9.5L15 - 8 ply with tube	4
12	R-1566	Rim 15" a 6" - 6 holes	4
13	Std.	Bolt 1/2" NC x 1 1/2" lg + nylon locknut	8
14	110-09021	Cross-beam (from serial number 5541 and up)	1
15	Std.	Bolt 5/8" NC x 2 1/2" lg + nylon locknut	1
16	160-04721	Safety support	1
17	110-08971	Clevis pin 1" ø x 5 1/4" lg	2
18	Std.	Cotter pin 3/16" x 2" lg	2
19	110-03741	Right side panel	1
20	120-01151	Platform	1
21	Std.	Bolt 1/2" NC x 2"lg + nylon locknut	1
22	130-09991	Rear panel lock	1
23	51435	Yoke 1/2" NF + écrou 1/2" NF + clevis pin 1/2" ø x 1 3/4" lg & cotter pin 1/8" x 3/4" lg	1
24	110-03711	Rod 1/2" for rear panel lock	1
25	Std.	Bolt 1/2" NC x 3 1/2" lg + nylon locknut	2
26	120-01111	Rear panel with grain door	1
27	110-03731	Standard rear panel	1
28	110-03742	Left side panel	1
29	Std.	Bolt 3/8" NC x 2 1/2" lg + nylon locknut & flat washer	4
30	110-03751	Front panel	1
31	Std.	Bolt 1/2" NC x 1 " lg + lock washer	2
32	160-04731	Spacer 33/64" i.d. x 27/32" o.d. x 1/2" lg	2
33	150-01841	Clevis pin 1" ø x 3 1/8" lg	2
34	Std.	Hitch pin clip 3/16"	4
35	35TR20	Cylinder 35TR20	1
36	150-01831	Pin 1/2" x 1 1/4" lg	1
37	110-08981	Lever for rear panel locking mechanism	1
38	Std.	Elbow 90° x 1/2" NPT - MF	1
39	190-00661	Hose 3/8" x 158" lg + 2 fittings 6U-108	1
40	190-00651	Hose 3/8" x 170" lg + 2 fittings 6U-108	1
41	110-08991	Swivel hitch	1
42	160-04741	Ring	1
43	51407	Jack	1
44	51408	Pin for jack	1

NI* = Not illustrated



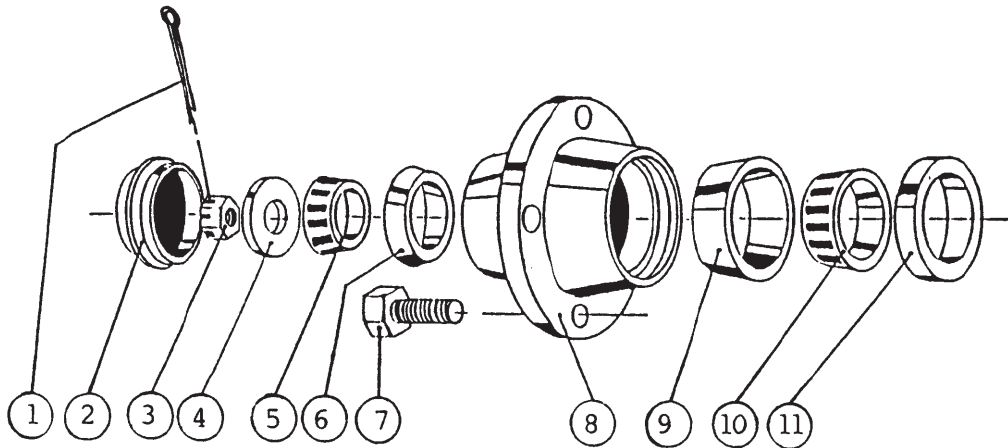
HUB H4000 #51503



REF.	PART #	DESCRIPTION	QTY
1	Std.	Cotter pin 5/32" x 1 1/2"	1
2	51528	Dust cap D-4000 2 5/16" ø	1
3	51529	Castle nut 1" NF x 9/16" thick	1
4	Std.	Flat washer 1"	1
5	51530	Roller bearing: cone no. LM67048	1
6	51531	Roller bearing: cup no. LM67010	1
7	51418	Rim screw 9/16"	5
8	51532	Hub only H4000	1
9	51533	Roller bearing: cup no. LM29710	1
10	51534	Roller bearing: cone no. LM67048	1
11	51535	Oil seal no. CR17415	1

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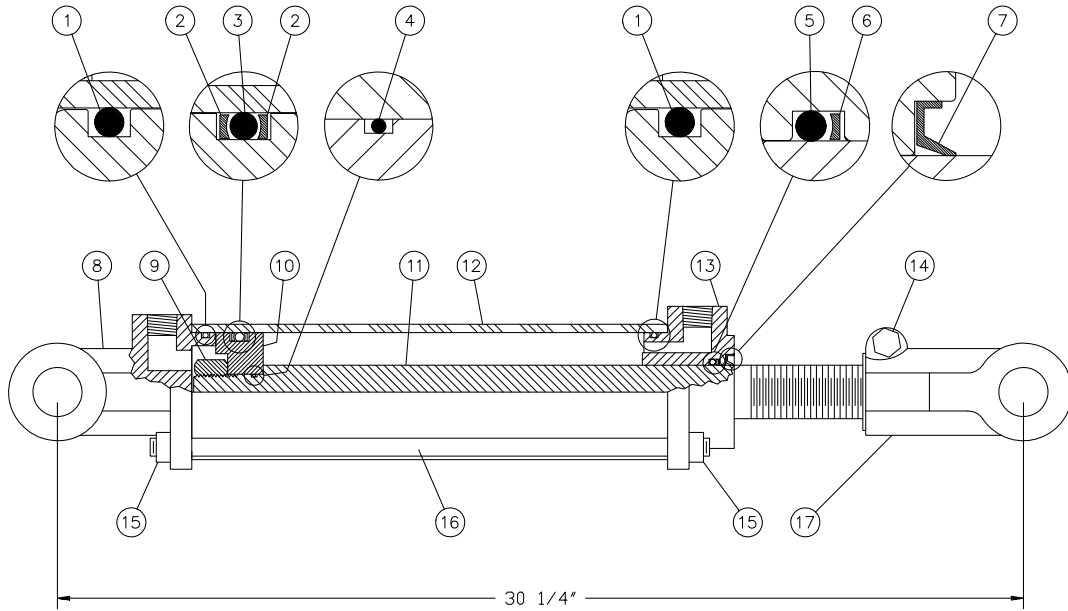
HUB H5000 #51441



REF.	PART #	DESCRIPTION	QTY
1	Std.	Cotter pin 5/32" x 1 1/2"	1
2	51417	Dust cap 2.570" ø	1
3	51442	Castle nut 7/8" NF	1
4	Std.	Flat washer 7/8"	1
5	51416	Roller bearing: cone no. 4T-LM48548	1
6	51415	Roller bearing: cup no. 4T-LM48510	1
7	51418	Rim screw 9/16"	6
8	51414	Hub only H5000	1
9	51413	Roller bearing: cup no. 4T-LM603011	1
10	51412	Roller bearing: cone no. 4T-LM603049	1
11	51443	Oil seal no. CR20044	1

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CYLINDER 35TR20










REF.	PART #	DESCRIPTION	QTY
1	Voir RK35TR125	O-ring	2
2	Voir RK35TR125	Back-up ring	2
3	Voir RK35TR125	O-ring	1
4	Voir RK35TR125	O-ring	1
5	Voir RK35TR125	O-ring	1
6	Voir RK35TR125	Back-up ring	1
7	Voir RK35TR125	Wiper	1
8	492403	Yoke (for 3 1/2" tube)	1
9	Std.	Nut 1 1/4" NF	1
10	492433	Piston 3 1/2" ø	1
11	458600	Piston rod 1 1/4"	1
12	491810	Cylinder body 3 1/2" ø	1
13	492423	Cylinder head 3 1/2"	1
14	Std.	Bolt 3/8" NC x 2 1/4" + nut	1
15	Std.	Nut 3/8" NC	8
16	492350	Threaded rod 3/8" NC	4
17	458600	Yoke (for 1 1/4" rod)	1
NI*	8183	Pin 1" ø + cotter pin	2
NI*	RK35TR125	Repair kit for cylinder 3" (includes # 1, 2, 3, 4, 5, 6, & 7)	1

*NI = NOT ILLUSTRATED






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TORQUE CHART

TORQUE SPECIFICATION TABLE

Thread UNC and UNF		Grade 2 				Grade 5   				Grade 8*   			
Bolt size		Torque				Torque				Torque			
Inches	mm	Pound feet min.	max.	Newton meters min.	max.	Pound feet min.	max.	Newton meters min.	max.	Pound feet min.	max.	Newton meters min.	max.
1/4	6.35	5	6	6.8	8.13	9	11	12.2	14.9	12	15	16.3	30.3
5/16	7.94	10	12	13.6	16.3	17	20.5	23.1	27.8	24	29	32.5	39.3
3/8	9.53	20	23	27.1	31.2	35	42	47.5	57.0	45	54	61.0	73.2
7/16	11.11	30	35	40.7	47.4	54	64	73.2	86.8	70	84	94.9	113.9
1/2	12.70	45	52	61.0	70.5	80	96	108.5	130.2	110	132	149.2	179.0
9/16	14.29	65	75	88.1	101.6	110	132	149.2	179.0	160	192	217.0	260.4
5/8	15.88	95	105	128.7	142.3	150	180	203.4	244.1	220	264	298.3	358.0
3/4	19.05	150	185	203.3	250.7	270	324	366.1	439.3	380	456	515.3	618.3
7/8	22.23	160	200	216.8	271.0	400	480	542.4	650.9	600	720	813.6	976.3
1	25.40	250	300	338.8	406.5	580	696	786.5	943.8	900	1080	1220.4	1464.5
1 1/8	25.58	-	-	-	-	800	880	1084.8	1193.3	1280	1440	1735.7	1952.6
1 1/4	31.75	-	-	-	-	1120	1240	1518.7	1681.4	1820	2000	2467.9	2712.0
1 3/8	34.93	-	-	-	-	1460	1680	1979.8	2278.1	2380	2720	3227.3	3688.3
1 1/2	38.10	-	-	-	-	1940	2200	2630.6	2983.2	3160	3560	4285.0	4827.4

* Thick nuts must be used with grade 8 bolts.

Size of screw	Thread	Pitch (mm)	Grade 4T  				Grade 7T 				Grade 8T  			
			Torque				Torque				Torque			
			Pound feet min.	max.	Newton meters min.	max.	Pound feet min.	max.	Newton meters min.	max.	Pound feet min.	max.	Newton meters min.	max.
M6	UNC	1.00	3.6	5.8	4.9	7.9	5.8	9.4	7.9	12.7	7.2	10	9.8	13.6
M8	UNC	1.25	7.2	14	9.8	19	17	22	23	29.8	20	26	27.1	35.2
M10	UNC	1.5	20	25	27.1	33.9	34	40	46.1	54.2	38	46	51.5	62.3
M12	UNC	1.75	28	34	37.9	46.1	51	59	69.1	79.9	57	66	77.2	89.4
M14	UNC	2.0	49	56	66.4	75.9	81	93	109.8	126	96	109	130.1	147.7
M16	UNC	2.0	67	77	90.8	104.3	116	130	157.2	176.2	129	145	174.8	196.5
M18	UNC	2.0	88	100	119.2	136	150	168	203.3	227.6	175	194	237.1	262.9
M20	UNC	2.5	108	130	146.3	176.2	186	205	252	277.8	213	249	288.6	337.4
M8	UNF	1.0	12	17	16.3	23	19	27	25.7	36.6	22	31	29.8	42
M10	UNF	1.25	20	29	27.1	39.3	35	47	47.4	63.7	40	52	54.2	70.5
M12	UNF	1.25	31	41	42	55.6	56	68	75.9	92.1	62	75	84	101.6
M14	UNF	1.5	52	64	70.5	86.7	90	106	122	143.6	107	124	145	168
M16	UNF	1.5	69	83	93.5	112.5	120	138	162.6	187	140	158	189.7	214.1
M18	UNF	1.5	100	117	136	158.5	177	199	239.8	269.6	202	231	273.7	313
M20	UNF	1.5	132	150	178.9	203.3	206	242	279.1	327.9	246	289	333.3	391.6

Use the above torques when special torque is not given.

NOTE: These values apply to fasteners as received from supplier, dry, or when lubricated with normal engine oil. They do not apply if extreme pressure lubricants are used.

WARRANTY

PRONOVOST warrants this product to the initial purchaser for the period of one year from the date of purchase against defects in materials and workmanship.

We will replace or repair defective parts free of charge if they are returned to our plant in St-Tite, Quebec, Canada.

Transportation charges are the responsibility of the customer. This warranty is not transferable.

Hydraulic cylinders are covered by the manufacturer of these items.

All PRONOVOST spare parts purchased are covered by a three (3) month warranty.

This warranty becomes void and nul if the equipment is modified, breaks down as the result of an accident, is not operated according to manufacturer's recommendations, damaged by negligence or if maintenance has not been carried out as specified.

Our obligation is limited to the replacement or repair of the defective part. PRONOVOST accepts no responsibility for direct or indirect consequential damages of any kind.

Ce manuel est aussi disponible en français.
Veuillez téléphoner.



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