

OPERATOR'S / PARTS MANUAL



Dump Trailers Models

P-505

No. C1458 03/06



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INTRODUCTION

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:	<u> </u>
DATE OF PURCHASE:	Ø

SAFETY

GENERAL SAFETY

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.

- 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 13.
- 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 vehicule. 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.

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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.

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.

MAINTENANCE DECALS

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

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A ATTENTION

1-FOR SAFE OPERATION, FOLLOW INSTRUCTIONS IN OPERATOR'S MANUAL.

2-KEEP AWAY FROM TRAILER WHEN HOPPER IS IN OPERATION.

3-IF UNDER TRAILER, PUT SAFETY SUPPORT IN PLACE AND BLOCK THE WHEELS.

4-CHECK ALL BOLTS ON WHEELS AFTER FIRST 5 HOURS OF OPERATION AND THEN EVERY 50 HOURS OF OPERATION.

5-ALWAYS STORE TRAILER WITH BED LOWERED. TO DRAIN WATER FROM BED, PLEASE USE JACK TO INCLINE TRAILER TOWARDS THE REAR.

1-POUR UN FONCTIONNEMENT SÉCURITAIRE, SUIVRE LES INSTRUCTIONS DANS LE MANUEL D'OPÉRATION.

2-SE TENIR LOIN DE LA REMORQUE LORSQUE LA BENNE EST EN OPÉRATION.

3-EN TRAVAILLANT SOUS LA REMORQUE, METTRE LA PATTE DE SÉCURITÉ EN PLACE ET UTILISER DES CALES POUR BLOQUER LES ROUES.

4-YÉRIFIER LE SERRAGE DES BOULONS DE ROUES APRÈS LE PREMIER 5 HEURES D'UTILISATION ET ENSUITE À TOUTES LES 50 HEURES D'OPÉRATION.

5-TOUJOURS ENTREPOSER VOTRE REMORQUE LA BENNE ABAISSÉE. POUR PERMETTRE L'ÉGOUTTEMENT DE L'EAU, UTILISEZ PLUTÔT LE CRIC POUR INCLINER LÉGÈREMENT LA REMORQUE VERS L'ARRIÈRE.

190-07342



Figure 4 Part no.: A 105

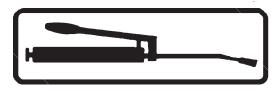


Figure 5 Part no.: A 106

Figure 2 Decal A

Part no.: 190-07342



Figure 3

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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.

warning: Wheel lug nuts must be applied and maintained at the proper torque levels to prevent loose wheels, broken studs, and possible separation of the wheel(s) from your trailer. The lug nuts on the wheels of your trailer must be maintained according to the torque values listed in the chart contained in this section. Over torquing and under torquing wheels are both dangerous.

WARNING: Towing, especially during the break-in period, can cause wheel lug nuts to loosen. Failure to maintain proper torque of the wheel lug nuts could lead to separation of the tire and wheel while driving, possibly resulting in property damage or personal injury.

Be sure to use only lug nuts matched to the cone angle of your wheel, usually 60° or 90° .

The proper procedure and sequence for attaching the wheels and torquing lug nuts is as follows.

- a-Start all nuts by hand to avoid cross threading.b-Tighten the nuts slightly.
- **c-** Using the proper sequence shown in figure 6, tighten the lug nuts to the 1st stage torque as



5 lug

Figure 6

indicated in the chart. Using the proper sequence for the second time, tighten the lug nuts to the 2nd stage torque as indicated in the chart. Using the proper sequence for the third time, tighten the lug nuts to the 3rd stage torque as indicated in the chart.

Wheel Torque Requirements									
Nut Ø	1 st Stage	2 nd Stage	3 rd Stage						
1/2"	20 - 25 ft-lbs	35 - 40 ft-lbs	50 - 75 ft-lbs						
9/16"	20 - 25 ft-lbs	50 - 60 ft-lbs	90 - 120 ft-lbs						
5/8"	20 - 25 ft-lbs	90 - 100 ft-lbs	140 - 170 ft-lbs						

d- Torque the wheel lug nuts before the first road use and after each wheel removal. Check and re-torque after the first 16, 40 and 80 kilometers (10, 25 and 50 miles) and adjust if required. Check periodically thereafter without exceeding 50 hours of use between the verifications.

Check the wheel lugs after winter storage, before starting a trip or following extensive braking. Perform maintenance periodically as indicated above.

- 5) Install panels.
- 6) Install all hydraulic hoses and fittings compatible with your equipment.

START-UP

- 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 as indicated in the startup section.
- 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.

Adjust the bearings as follows:

- a-Lubricate spindle threads.
- **b-**Screw the adjusting nut on the spindle thread.
- **c-** Set a bearing preloading by torquing the adjusting nut to 200 ft-lbs to make up for any play between parts. **N.B.: This step must be carried out while rotating the wheel.**
- **d-**Loosen the adjusting nut one complete turn.
- e- Now tighten it again to a 50 ft-lbs torque.
- **f-** Loosen the nut 1/4 turn; while doing so, determine the right position for the locking device. **g-** Install the locking device.
- 8) Check all nuts and bolts once a year. If necessary use torque chart on page 20.

STORAGE

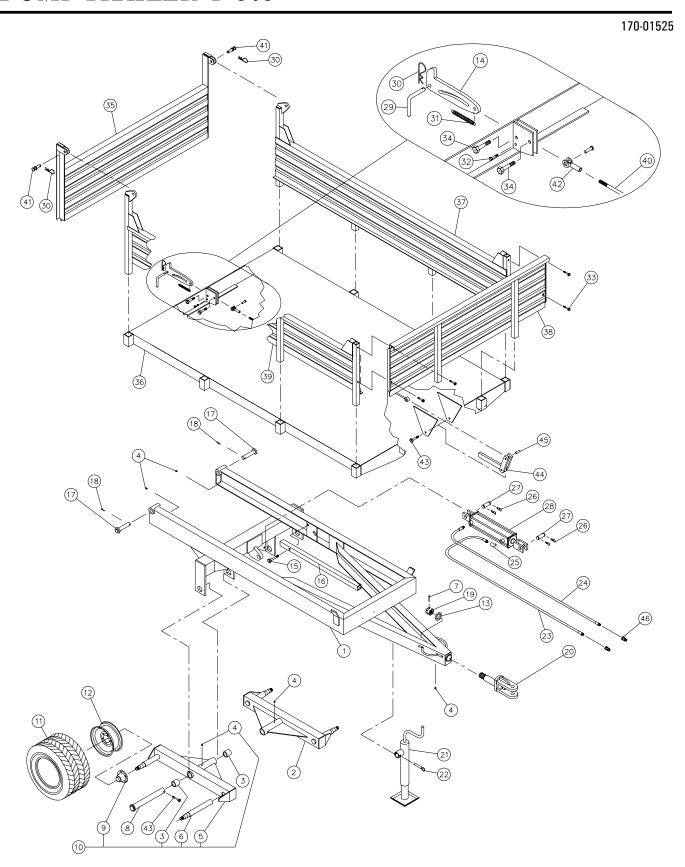
- 1) Store in a cool, dry place.
- 2) Install wooden blocks under the axles to keep the tires off the ground and cover them if left exposed to the sun.
- 3) Keep all piston rods in the retracted position. This will assure better protection against the elements.
- 4) Clean your trailer.
- 5) Thoroughly 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	OFF-ROAD
MODEL	P-505
Gross weight	5000 lbs / 2270 kg
Width x length interior of box in/mm	60 x 94 / 1524 x 2388
Thickness of floor	3/16" / 4.78 mm
Side panel height 12G*	14" / 356 mm
Front/back panel height 12G*	19" / 483 mm
Platform height	34" / 864 mm
Overall length	144" / 3658 mm
Overall width	64" / 1626 mm
Overall height	55.5" / 1409 mm
Free height / maximum lift	15" / 381 mm
Thread width	44.5" / 1130 mm
Dumping angle (back)	47°
Dumping angle (2 sides)	
Central unloading hatch	
Axle	tandem
Suspension	
Hubs	5 bolts
Hub capacity	2500 lbs / 1135 kg
Spindles	1.75" / 44 mm
Wheels	4
Wheels dimensions	12 x 8.5 x 5
Tires (standards)	23 x 10,5 x 12 4-plys Turf Saver
Hitch: clevis/swivel	standard
Hitch: ball coupler 2 5/16" / 59 mm	option
Electric brakes	
Security chain	option
Electric power pack	option
Battery 12V	option
Light system (12 V)	
Oil / volume required	
Cylinder	1 double acting
Hitch weight (empty)	110 lbs / 50 kg
Total weight	1550 lbs / 704 kg

DUMP TRAILER P-505



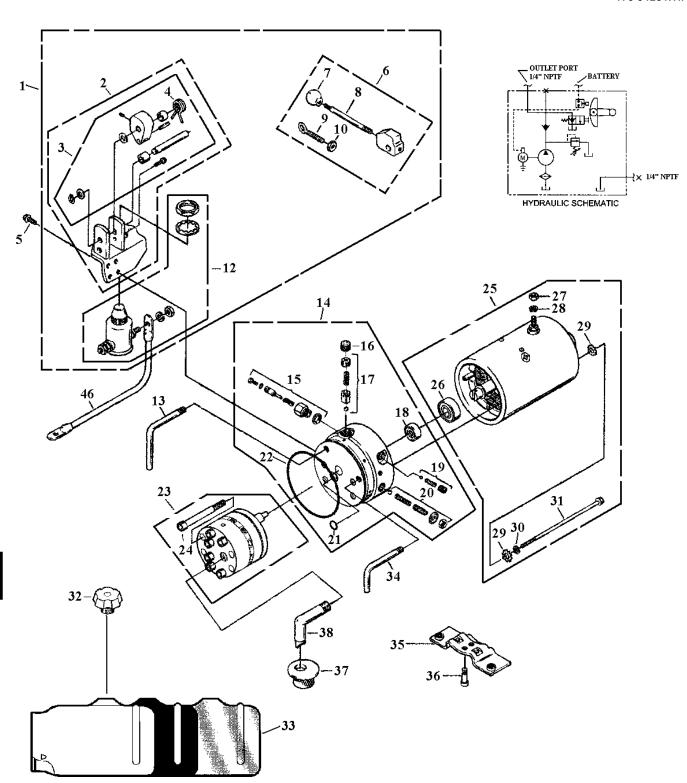
DUMP TRAILER P-505 (cont'd)

REF.	PART #	DESCRIPTION	QTY
1	120-02013	Main frame	. 1
2	110-10026	Left tandem frame	. 1
3	160-01091	Brass bushing 1 3/4" i.d. x 2" o.d. x 2" lg	. 4
4	Std.	Grease fitting 1/4" - 28 straight	
5	110-10025	Right tandem frame	
6	150-01982	Axle 2" ø x 12 13/16" lg (welded)	
7	Std.	Cotter pin 1/4" x 3"	
8	110-00011	Pin for tandem 1 3/4" ø x 15 1/4" lg	
9	32218	Complete hub assembly H-2500	
10	110-10027	Right tandem assembly	
N.I.	110-10028	Left tandem assembly	
11	PN2310512	Turf Saver tire 23" x 10.5" x 12" 4-plys	. 4
12	R12855HD	Rim 12" x 8.5" - 5 holes	
13	130-20331	Flat washer 1 5/8" i.d. x 2 1/4" o.d	
14	130-16212	Rear panel lock	
15	300-44370	Bolt 5/8" x 2 1/2" lg + nylon locknut	
16	160-04721	Safety prop	
17	110-08971	Clevis 1" ø x 5 1/4" lg	
18	Std.	Cotter pin 1/4" x 2" lg	
19	357-57000	Castle nut 1 1/2" NC	
20	110-08991	Swivel hitch	
21	51407	Jack 2000 lbs	
22	51407	Pin for jack	
23	190-02561	Hose 3/8" x 162" lg + 1 fitting 6U-106 & 1 fitting 6U-108	
23 24	190-02561	Hose 3/8" x 150" lg + 1 fitting 60-106 & 1 fitting 60-108	
25	C3409x6	Elbow 90° x 3/8" NPT - MF	
26	C3409X0 Std.	Hairpin cotter 7/8" x 2 1/4" lg	
27	150-01841	Clevis pin 1" ø x 3 1/8" lg	
28	25TR20	Cylinder 25TR20	
29	150-02861	Pin for rear locking mechanism	
30	Std.	Hitch pin clip 1/8" x 2 9/16"	
31	190-08211	Spring 7/8" o.d. x 6 5/32" lg	
32	300-34340	Bolt 5/16" NC x 2" lg + nylon locknut + flat washer	
33	300-36370	Bolt 3/8" NC x 2 1/2" lg + nylon locknut	
34	300-40340	Bolt 1/2" NC x 2" lg + nylon locknut	
35	110-17631	Standard rear panel	
36	120-02022	Platform	
37	110-12344	Left side panel	
38	110-12311	Front panel	
39	110-12343	Right side panel	
40	110-17581	Rod 1/2" for rear panel lock	
41	150-02851	Hinge pin for rear panel	. 2
42	51435	Yoke 1/2" NF + nut 1/2" NF + clevis pin 1/2" ø x 1 3/4" lg & cotter	
		pin 1/8" x 3/4" lg	
43	300-40400	Bolt 1/2" NC x3" lg + nylon locknut	
44	110-14271	Lever for automatic locking mechanism	
45	150-02761	Pin 1/2" dia. x 1 1/2" lg	
46	Std	Quick coupler 1/2" male	
*NI	51625	Electric hydraulic pump M-301-016-04M**E	. opt.

NI = Not illustrated

ELECTRIC HYDRAULIC PUMP M301 # 51625

170-04261.TIF

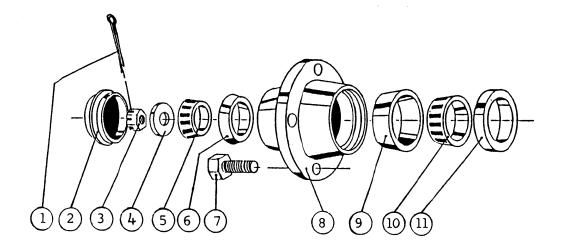


ELECTRIC HYDRAULIC PUMP M301 #51625 (cont'd)

REF.	PART #	DESCRIPTION		Q	TY
			51624	51625	51627
1	03412	Bracket assembly (incdingt #6 & 12)	1	1	1
2	03440	Bracket assembly including #6	1	1	1
3	03660	Parts Kit, Bracket assembly	1	1	1
4	00018	Spring torsion	1	1	1
5	07815	Screw, hex washer head, tap tite 1/4" NC x 5/8"	4	4	4
6	00175	Parts kit, Handle assembly	1	1	1
7	01157	Ball, plastic	1	1	1
8	01326	Rod, Handle 4"	1	1	1
9	01327	Eye bolt 5/16" NC x 1 7/8"	1	1	1
10	07790	Nut 5/16" NC	1	1	1
11	01373	Cable, insulated, with lugs 9" 6 GA	1	1	1
12	03322	Switch on/off (canister type)	1	1	1
13	13058	Tube return 1/8" NPT	1	1	1
14	12421	Base assembly	1	1	1
15	00235	Parts kit, Plunger	1	1	1
16	02349	Plug 3/8" NPT	1	1	1
17	07526	Parts kit, Check valve	1	1	1
18	02159	Seal	1	1	1
19	00078	Parts kit, Check valve	1	1	1
20	03766	Parts kit, Relief valve	1	1	1
21	00120	O-ring 1/2" i.d. x 5/8" o.d. x 1/16"	1	1	1
22	02352	O-ring 3 5/8" i.d. x 3 7/8" o.d. x 1/8"	1	1	1
23	K12171-250	Pump assembly	1	1	1
24	07818	Socket head cap screw 1/4"NC x 3"	4	4	4
25	08111	Electric motor 12V DC	1	1	1
26	02318	Bearing base motor	1	1	1
27	07625	Nut 5/16" NF	1	1	1
28	07781	Lock washer 5/16"	1	1	1
29	07737	Star washer 1/4"	4	4	4
30	07795	Lock washer 1/4"	2	2	2
31	07738	Socket head cap screw 1/4"NC x 6 1/2"	2	2	2
32	01143	Plug	1	1	1
33	14157	Reservoir 6" x 6 1/2" x 10" (199 po3)	-	1	-
33	14159	Reservoir 6" x 6 1/2" x 19" (432 po3)	1	-	-
33	14170	Reservoir 6 1/2" x 7 1/4" x 26" (715 po3)	-	-	1
34	13059	Tube return 1/8" NPT	1	1	1
35	04560	Bracket, Plate mount 3 1/4" c/c	1	1	1
36	07592	Socket head cap screw 3/8"NC x 1"	2	2	2
37	01134	Screen filter	1	1	1
38	01209	Tube, Filter suction 3/8" NPT 90 deg	1	1	1
* 500	na narta miaht n	et be available apart			

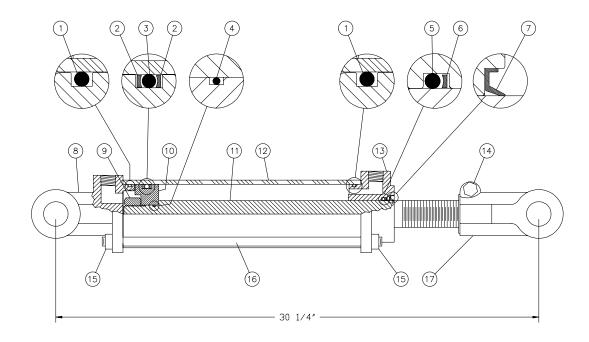
^{*} Some parts might not be available apart.

HUB H2500 #32218



REF.	PART #	DESCRIPTION	QTY
1	Std.	Cotter pin 5/32" x 1 3/4"	. 1
2	53019	Dust cap D-1000 1.980" ø	. 1
3	51529	Castle nut 1" NF x 9/16" thick	
4	378-50000	Flat washer 1"	. 1
5	53058	Roller bearing Timken: cone no. L44649	. 1
6	53023	Roller bearing Timken: cup no. L44610	. 1
7	53024	Rim screw 1/2"	. 5
8	53059	Hub only H2500	. 1
9	51415	Roller bearing Timken: cup no. LM48510	. 1
10	51416	Roller bearing Timken: cone no. LM48548	. 1
11	51535	Oil seal no. CR17415	. 1

CYLINDER 25TR20



REF.	PART #	DESCRIPTION	QTY
1	See #RK25TR	O-ring 1/8" x 2¼" x 2½"	. 2
2	See #RK25TR	Back-up 2½" o.d. x 3/16 ø	. 2
3	See #RK25TR	O-ring 3/16" x 2 1/8" x 2½"	. 1
4	See #RK25TR	O-ring 1/16" x 5/8" x 3/4"	. 1
5	See #RK25TR	O-ring 1/8" x 1 1/8" x 1 3/8"	. 1
6	See #RK25TR	Back-up 1 3/8" o.d. x 1/8" ø	. 1
7	See #RK25TR	Wiper 1 1/8" i.d. x 1 5/8" o.d	. 1
8	492401	Yoke (for 2½ " tube)	. 1
9	Std.	Nut ¾" NF	. 1
10	492431	Piston 2½ " ø	. 1
11	492643-L	Piston rod 1 1/8"	. 1
12	491680-L	Cylinder body 2½ " ø	. 1
13	492421	Head (for 2½ " tube)	. 1
14	Std.	Bolt 3/8" NC x 2¼" lg + nut	. 1
15	Std.	Nut 3/8" NC	. 8
16	Std.	Threaded rod 3/8" NC x 12" lg	. 4
17	458599	Yoke (for 1 1/8" rod)	. 1
NI*	8183	Pin 1" ø + cotter pin	2
NI*	RK25TR	Repair kit for cylinder 2½" (includes # 1, 2, 3, 4, 5, 6, & 7)	. 1

^{*}NI = NOT ILLUSTRATED

TORQUE CHART

TORQUE SPECIFICATION TABLE

Thread UN	C and UNF	Grade 2	2			Grade 5		\rightarrow \bigcirc	$\langle \overline{\langle} \rangle$	Grade 8	* ($\rightarrow \bigcirc$	$\langle \!$
Bolt	size		Tor	que			Tor	que			Tor	que	
		Pound	l feet	Newton	meters	Pound	feet	Newton	n meters	Pound	feet	Newton	meters
Inches	mm	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	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.

		<u> </u>	Grade 4	4T		1	Grade 7	T	7		Grade 8	T	8 (11	ī
Size of screw	Thread	Pitch (mm)		Tor	que			Tor	que			Tor	que	
Siz	Thr	itch	Pound	l feet	Newton	meters	Pound	l feet	Newton	meters	Pound	feet	Newton	meters
		1	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	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.



LES MACHINERIES PRONOVOST INC.

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