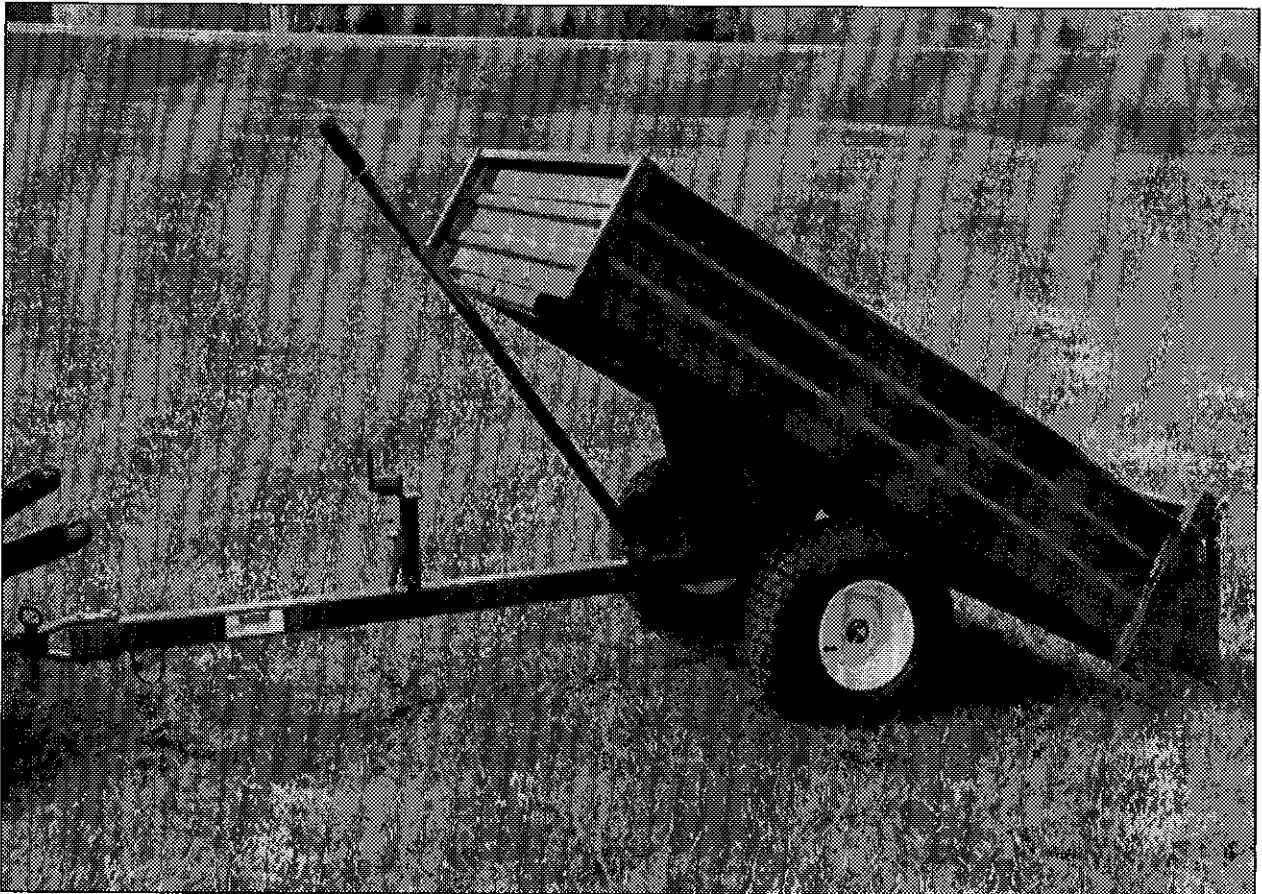


PRONOVOST

OPERATOR'S / PARTS MANUAL



Dump Trailer
Model P12

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INTRODUCTION

1

CONGRATULATIONS!

Thank you for choosing PRONOVOST. Your Dump Trailer was carefully designed and we are confident it 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 equipment for years to come.

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

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

In this manual, the right and left sides are determined by sitting on the tractor seat, facing forward.

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 Dump Trailer in the space provided.

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.

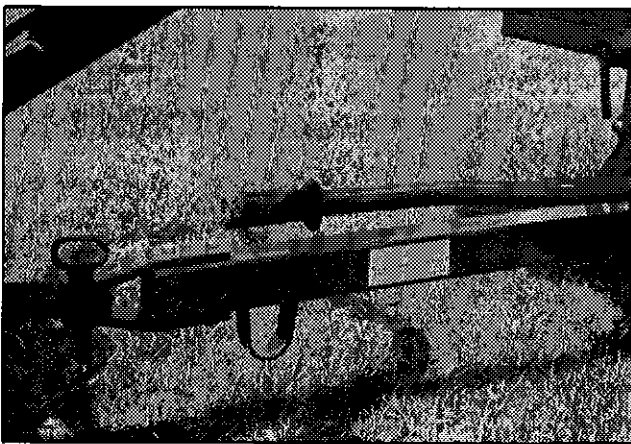


Figure 1

MODEL: _____

SERIAL NO.: _____

DATE OF PURCHASE: _____

SAFETY

GENERAL SAFETY

2

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 13.
- 5) Do not perform any adjustments, cleaning, maintenance or repairs with the engine running on the towing vehicle. Preferably remove the key from the ignition.
- 6) Be careful when backing-up, make sure you have good visibility.
- 7) Do not forget to unlock panel in the proper way before dumping.
- 8) When operating dumping mechanism, always stand on the right hand side of the trailer.
- 9) To dump, place your right hand firmly on the handle (Fig. 5, page 8) pushing down. Release latch (B Fig. 4, page 8), then lift lever (A Fig. 4, page 8), then lift handle to dump. **WARNING!** If loaded with more weight on the back of the trailer, the handle will go up on its own. **STAND CLEAR!**
- 10) Always travel at a safe operating speed following regulations and common sense. **This dump trailer is for off-road service only.**

SAFETY IN OPERATION

- 1) **WARNING!** Do not overload your trailer, **do not exceed the load capacity** indicated in the specifications on page 12.
- 2) The safety lock (A Fig. 4, page 8) is designed to prevent accidental dumping of the trailer even when spring latch (B Fig. 4, page 8) is released. Make sure that it moves freely on its pivot. Release the safety lock only when ready to dump.
- 3) Be sure there are no obstructions around the equipment and that no one stands near the equipment when in use.
- 4) Do not operate an engine in a confined or non ventilated area.
- 11) Always make sure that the brakes on the towing vehicle are in good operation condition and that they are efficient enough to stop with trailer fully loaded.
- 12) **The gross weight of loaded trailer must never exceed the weight of the towing vehicle.**

SAFETY WITH MAINTENANCE

- 1) Perform maintenance according to recommendations contained in this manual. If the trailer is hooked up to the towing vehicle while performing maintenance work, make sure the engine is not running and preferably remove the ignition key.

DECALS

SAFETY DECALS

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

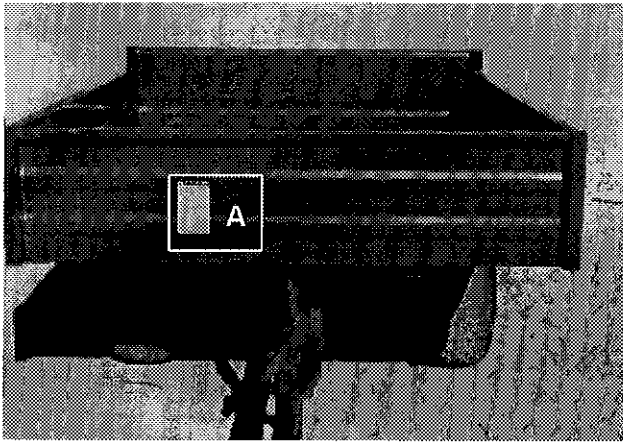


Figure 2

! ATTENTION

TO OPERATE DUMPING MECHANISM, PLACE YOUR RIGHT HAND FIRMLY ON HANDLE PUSHING DOWN. RELEASE SPRING LATCH TO UNLOCK BOX. THEN LIFT SAFETY LEVER, THEN LIFT HANDLE TO DUMP. **WARNING!** IF LOADED WITH MORE WEIGHT ON THE BACK OF THE TRAILER, THE HANDLE WILL GO UP ON ITS OWN. **STAND CLEAR!**

POUR EFFECTUER LE BASCULEMENT, PLACEZ VOTRE MAIN DROITE SUR LA POIGNÉE ET MAINTENEZ LA FERMEMENT VERS LE BAS. TIREZ LA BARRURE À RESSORT POUR LIBÉRER LA BOÎTE. LEVEZ LA BARRURE DE SÉCURITÉ, ET LEVEZ LA POIGNÉE POUR BASCULER. **DANGER!** SI LE POIDS DE LA CHARGE EST RÉPARTI VERS L'ARRIÈRE, LE LEVIER AURA IMMÉDIATEMENT TENDANCE À S'ÉLEVER. **DEMEUREZ À L'ÉCART!**

3

Figure 3
Decal A

Part no.: A111

START-UP

START-UP PROCEDURES

- 1) Your P12 trailer is delivered with some assembly required. Please refer to drawing on page 10 and familiarise yourself with it before assembling.
- 2) Lubricate all grease fittings with a good quality multiuse grease.
- 3) Lubricate dumping system and panel release mechanism with good quality oil.
- 4** 4) Adjust tire pressure to manufacturer's recommendation, do not exceed 24 psi.
- 5) Install wheels on hubs.
- 6) Install panels.
- 7) Verify for adequate tightness of all fastening devices. Refer to torque chart on page 13.
- 8) The safety lock (A Fig. 4) is designed to prevent accidental dumping of the trailer even when spring latch (B Fig. 4) is released. Make sure that it moves freely on its pivot. Release the safety lock only when ready to dump.
- 9) Do not forget to unlock the rear panel in the proper manner before dumping.
- 10) When operating dumping mechanism, always stand on the right hand side of the trailer.
- 11) To dump, place your right hand firmly on the handle (Fig. 5) pushing down. Release latch (B Fig. 4), then lift lever (A Fig.4), then lift handle to dump. **WARNING!** If loaded with more weight on the back of the trailer, the handle will go up on its own. **STAND CLEAR!**
- 12) After dumping, push handle (Fig. 5) back down into the locked position.
- 13) Return spring latch (B Fig. 4) to locked position.
- 14) **The gross weight of loaded trailer must never exceed the weight of the towing vehicle.**

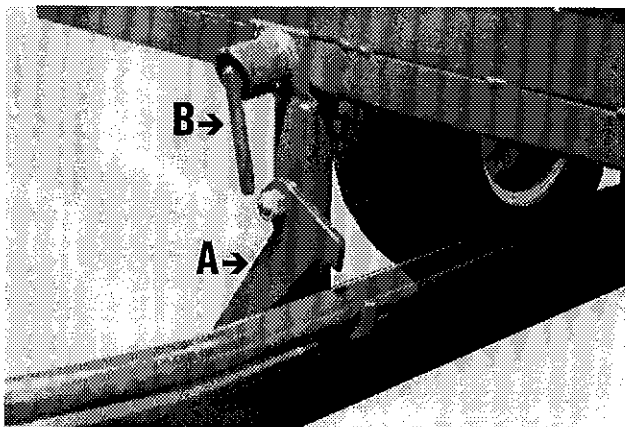


Figure 4

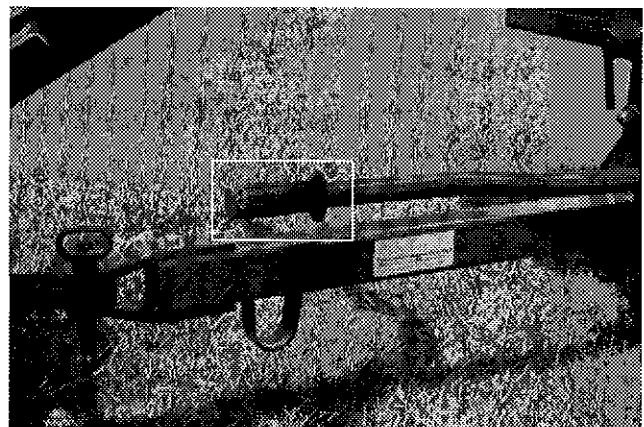


Figure 5

MAINTENANCE

- 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) Lubricate dumping system and panel release mechanism every 20 hours of operation.
- 5) Check tire pressure every 50 hours of operation, adjust according to manufacturer's recommendation, do not exceed 24 psi.
- 6) Check all nuts and bolts once a year. If necessary use torque chart on page 13.

STORAGE

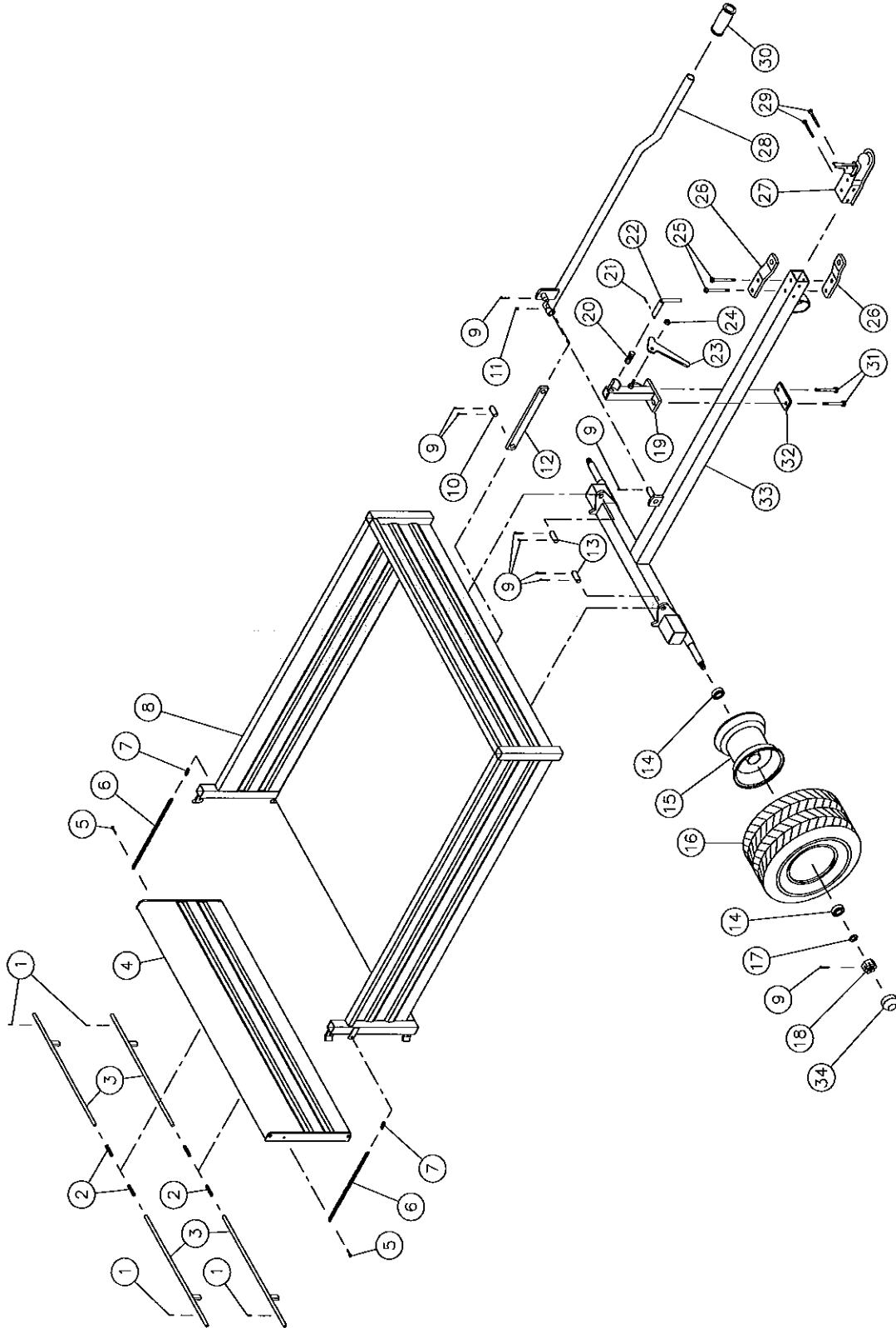
- 1) Store in a cool, dry place.
- 2) Install wooden blocks under the axles to keep the tires off the ground and cover them if left exposed to the sun.
- 3) Clean your trailer.
- 4) Thoroughly inspect all parts of the trailer. Replace or repair worn or defective parts.
- 5) Touch-up or repaint if necessary.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

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DUMP TRAILER P12

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DUMP TRAILER P12

REF.	PART #	DESCRIPTION	QTY
1	Std.	Roll pin 1/8" x 3/4" lg	4
2	52037	Spring 7/16" o.d. x 2 1/4" lg	4
3	52038	Rear panel lock	4
4	52039	Rear panel	1
5	Std.	Bolt 1/4" NC x 1 1/4" lg	2
5	Std.	Nylon locknut 1/4" NC	2
6	52040	Chain 5/32" x 16 1/2" lg	2
7	52041	Quick link 5/32"	2
8	52042	Box	1
9	Std.	Cotter pin 5/32" x 1 1/2" lg	10
10	52043	Pin	1
11	Std.	Grease fitting 1/4" - 28 straight	1
12	52044	Connecting rod	1
13	52045	Pin	2
14	27303	Bearing	4
15	52046	Rim	2
16	52047	Tire	2
17	52049	Flat washer	2
18	52050	Castle nut 3/4" NF x 5/8" thick	2
19	52051	Front support	1
20	53052	Spring 7/8" o.d. x 2" lg	1
21	Std.	Roll pin 1/8" x 1 1/8" lg	1
22	52052	Box lock	1
23	52053	Safety lock	1
24	Std.	Nylon locknut 1/2" NC	1
25	Std.	Bolt 1/2" NC x 4 1/2" lg	2
25	Std.	Nylon locknut 1/2" NC	2
26	52054	Standard hitch	2
27	52055	Ball hitch 1 7/8" (optional)	1
28	52056	Lever	1
29	Std.	Bolt 7/16" NC x 3 1/2" lg (optional)	2
29	Std.	Nylon locknut 7/16" NC (optional)	2
30	52057	Lever handle	1
31	Std.	Bolt 1/2" NC x 4 1/2" lg	2
31	Std.	Nylon locknut 1/2" NC	2
31	Std.	Flat washer 1/2"	2
32	52058	Retaining plate	1
33	52059	Frame	1
34	52060	Dust cap	2
N.I.	52048	Tire and rim ass'y without bearing	2

N.I. = Not illustrated
 O/L = Obtain locally

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
SPECIFICATIONS

P12






Horse power recommended (towing vehicle):	12 HP
Capacity:	1200 lbs
Box (length x width x height):	50" x 60" x 12"
Front side panel (height x thickness):	12" x 14G
Side panels (height x thickness):	12" x 14G
Tailgate (removable):	14" (Opens from the top or the bottom)
Platform height:	22"
Overall length:	8'2"
Overall width:	54"
Overall height:	3'0"
Free height / max. lift:	2"
Tread width:	37 1/2"
Dumping angle (back):	35°
Axle:	Single
Wheels:	2
Tires (standard):	18 x 9.5 - 8, 4 ply
Hitch: Clevis:	Standard
Hitch: Ball coupler 1 7/8":	Optional
Mechanical dumping system:	Standard
Hitch weight (empty):	40 lbs
Total weight:	200 lbs
Colour:	Green

TORQUE CHART

TORQUE SPECIFICATION TABLE

Thread UNC and UNF		Grade 2 				Grade 5   				Grade 8*   			
Bolt size		Torque				Torque				Torque			
Inches	mm	Foot pounds min.	Foot pounds max.	Newton meters min.	Newton meters max.	Foot pounds min.	Foot pounds max.	Newton meters min.	Newton meters max.	Foot pounds min.	Foot pounds max.	Newton meters min.	Newton meters 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			
			Foot pounds min.	Foot pounds max.	Newton meters min.	Newton meters max.	Foot pounds min.	Foot pounds max.	Newton meters min.	Newton meters max.	Foot pounds min.	Foot pounds max.	Newton meters min.	Newton meters 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.

Tires are covered by the manufacturers 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 result of an accident, if 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.
260, route 159,
Saint-Tite, Quebec, Canada, G0X 3H0
Tel.: (418) 365-7551, Fax: (418) 365-7954