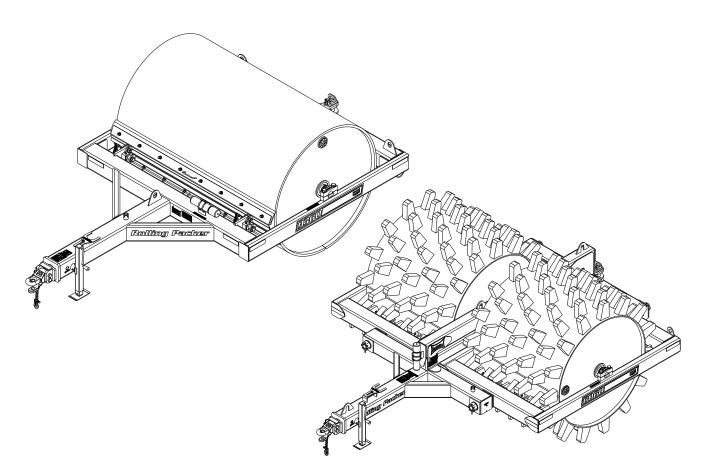


Model 4848/4860/6060/9360 Packer Service and Parts Manual



LANDOLL CORPORATION

1900 North Street Marysville, Kansas 66508 (785) 562-5381 800-428-5655 ~<u>WWW.LANDOLL.COM</u>

F-968-0118

Safety Information

Introduction

This manual is compiled as a guide for owners and operators of the Packer. Read it carefully so as to be able to follow the suggestions made. Please take time to understand the proper maintenance schedule and SAFE operation of your equipment.

In the event that a new and inexperienced operator is placed in charge of running the equipment, they should read and understand, that part of the manual for proper maintenance and SAFE operation, and to be trained in regard by an experienced operator.

Owner Assistance

If customer service or repairs are needed, contact your lcon dealer. They have trained personnel, parts and service equipment specially designed for lcon products. Your machine's parts should only be replaced with lcon parts. Have the Serial Number and complete Model Number available when ordering parts from your lcon dealer (See Figure 2-1.)

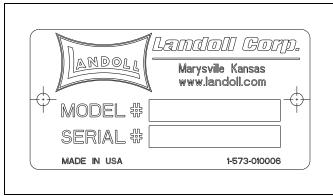


Figure 2-1: ID Plate

Warranty Registration

Be certain to register the grader, by Online registration at <u>www.landoll.com</u> within 10 days of purchase or lease, in order to be on file at Landoll and eligible for Warranty.

Take time to read and understand the Warranty for this product. That Warranty is printed in the Owner's Manual **(See Figure 2-2)**, and a separate copy enclosed in the packet.

ICON/Landoll reserves the right to make changes and/or add improvements to it's products at any time without obligation to previously manufactured equipment.

Please take time to complete the following information for your personal reference, should you need to contact your Dealer with questions or parts needs.

MODEL_

SERIAL #_____ DATE OF PURCHASE

DEALER NAME_

We at ICON/Landoll wish to thank you for purchasing our product. We have spent considerable time and effort to research, design, test and develop this machine and are confident it will serve you in the use for which it was designed.

LANDOLL CORPORATION Product Warranty

LANDOLL CORPORATION 1600 W. 8th St. Beloit KS 67420 (referred to as LANDOLL in this document)

LANDOLL shall Warrant workmanship and materials on the **ICON Industrial Products** for a period of 270 calendar day from the date of original purchase, lease, or rental, from the original Dealer, and in accordance with the following terms and conditions.

Should any part or component fail within the Warranty period, and under normal use conditions, LANDOLL shall supply a new part or component for replacement through the original Dealer. Cost of normal ground freight, for that part or component to the Dealer, shall be paid by LANDOLL. Repair and replacement labor cost, from the original Dealer, shall be paid by LANDOLL at a rate negotiated by LANDOLL.

No further expense shall be paid by LANDOLL, including but not limited to, loss of time or income.

LANDOLL shall not provide Warranty on any part or component that has failed due to abuse, misuse, alteration, improper maintenance, or normal wear. Failure occurring while being pulled by a tractor in excess of engine horsepower, as described in the owners manual and/or posted on the machine, is considered abuse and misuse and shall not receive Warranty. Warranty applies only to normal. intermittent agricultural use, and not commercial or industrial use.

In regard to some components manufactured by other companies and sold by LANDOLL, including but not limited to tires, said Warranty shall be provided solely by that manufacturing company.

This Warranty applies to products sold in the United States and Canada, and is made expressly in place of all other warranties, expressed or implied.

Understanding Safety Statements

You will find various types of safety information on the following pages and on the machine decals (signs) attached to the implement. This section explains their meaning.

NOTICE

Special notice - read and thoroughly understand.

Proceed with caution. Failure to heed caution <u>may</u> cause injury to person or damage product.

Proceed with caution. Failure to heed warning <u>will</u> cause injury to person or damage product.

DANGER

Proceed with extreme caution. Failure to heed notice will cause injury or death to person and/or damage product.

NOTE

Means that failure to follow these instructions could cause damage to the equipment or cause it to operate improperly.

NOTE

Make sure you read and understand the information contained in this manual and on the machine signs (decals) before you attempt to operate or maintain this vehicle.

The safety statements contained in this manual relate to the operation of the Grader.

NOTE

You should read and understand the information contained in this manual and on the machine decals before you attempt to operate or maintain this equipment.

- Examine safety decals and be sure you have the correct safety decals for the machine. Order replacement decals through your Icon dealer.
- Keep these signs clean so they can be observed readily. It is important to keep these decals cleaned more frequently than the machine. Wash with soap and water or a cleaning solution as required.
- Replace decals that become damaged or lost. Also, be sure that any new machine components installed during repair include decals which are assigned to them by the manufacturer.
- When applying decals to the machine, be sure to clean the surface to remove any dirt or residue. Where possible, sign placement should protect the sign from abrasion, damage, or obstruction from mud, dirt, oil etc.

DANGER

- Keep Riders Off of Machinery
- Do not allow anyone to ride on tractor or machine. Riders could be struck by foreign objects or thrown from the machine.
- Never allow children to operate equipment.
- Keep bystanders away from machine during operation.

Safety Decals

See Decal Listing for decal locations.

NOTE

Replace all missing or damaged safety signs/decals.

Pinching or Crushing Danger

- 1. Moving parts that are operated by hydraulic pressure can cause serious injury or death.
- 2. Use extreme caution when working around any moving part.
- 3. Do not allow any person to be on or near the machine while it is in motion.

Moving Parts

- 1. Be aware of all moving parts of the machine.
- 2. Do not allow anyone to be near, or on the machine while operating any moving part.

Danger

- 1. Read and understand the operator's manual before using the machine.
- 2. Allow no person to operate the machine before reading the manual and being instructed on proper operation.

Caution

1. This machine is designed for off road use only.

Danger, High Pressure

- 1. High pressure fluid can cause serious damage to hands and eyes.
- 2. Carefully relieve pressure before attempting any
- 3. adjustments.
- 4. Tighten all fittings before applying pressure.

NOTE

If fluid is sprayed into eyes or injected into skin, **See a** doctor immediately!

Lubrication

- 1. Lubrication information is placed near each zerk.
- 2. Proper maintenance should be followed to assure the working life of the machine.

Proper Notification

- 1. Contact the proper authorities before you dig.
- 2. When digging in a populated area, it is recommended that a call be made to area utilities to establish the local of any buried pipes, lines, or structures. When digging in open areas, research and know the local of any underground structures and objects.
- 3. Striking the blades or bits against buried objects can cause damage to the machine, and is considered as abuse to the unit.

Storage Recommendations

NOTE

If the machine is being stored or not in use for a long period of time, it is recommended that a coating of heavy grease be applied to the exposed chrome cylinder rods. This will help to protect the coating from moisture and rust during this time.

Standard Specifications

Model Specification

	Model 4848	Model 4860	Model 6060	Model 9360
Weight (Empty)	10,880 lbs	12,800 lbs	14,220 lbs	13,680 lbs
Weight (Filled with Water)	17,046 lbs	22,435 lbs	26,257 lbs	22,618 lbs
Weight (Filled with Sand)	22,987 lbs	31,280 lbs	36,440 lbs	30,820 lbs
Total Drum Capacity	752 gal.	1,175 gal.	1,468 gal.	1,090 gal.
Working Width	8' - 6"	8' - 6"	10' - 6"	7' - 9"
Transport Width	10'	10'	11' - 11"	8' - 5"
Length Overall	13' - 10"	14' - 10"	14' - 10"	14' - 10"
Number of Drums	2	2	2	1
Drum Diameter without Teeth	48"	60"	60"	60"
Total Number of Teeth	144	180	210	165
Drum Diameter with Teeth	62"	78"	78"	78"
Hitches	Single or Double Clevis w/360° Swivel			
Grease Locations	7	7	7	3

General Torque Specifications (rev. 4/97)

TORQUE SPECIFIED IN FOOT POUNDS - This chart provides tightening torques for general purpose applications when special torques are not specified on process or drawing. Assembly torques apply to plated nuts and cap-screws assembled without supplemental lubrication (as received condition). They do not apply if special graphite moly-disulfide or other extreme pressure lubricants are used. When fasteners are dry (solvent cleaned) add 33% to as received condition torque. Bolt head identification marks indicate grade and may vary from manufacturer to manufacturer. Thick nuts must be used on grade 8 cap-screws. Use value in [] if using prevailing torque nuts.

UNC SIZE		AE de 2		AE de 5		AE Ide 8	UNF SIZE		AE de 2		AE Ide 5		AE Ide 8
1/4-20	4	[5]	6	[7]	9	[11]	1/4-28	5	[6]	7	[9]	10	[12]
5/16-18	8	[10]	13	[13]	18	[22]	5/16-24	9	[11]	14	[17]	20	[25]
3/8-16	15	[19]	23	[29]	35	[42]	3/8-24	17	[21]	25	[31]	35	[44]
7/16-14	24	[30]	35	[43]	55	[62]	7/16-20	27	[34]	40	[50]	60	[75]
1/2-13	35	[43]	55	[62]	80	[100]	1/2-20	40	[50]	65	[81]	90	[112]
9/16-12	55	[62]	80	[100]	110	[137]	9/16-18	60	[75]	90	[112]	130	[162]
5/8-11	75	[94]	110	[137]	170	[212]	5/8-18	85	[106]	130	[162]	180	[225]
3/4/10	130	[162]	200	[250]	280	[350]	3/4-16	150	[188]	220	[275]	320	[400]
7/8-9	125	[156]	320	[400]	460	[575]	7/8-14	140	[175]	360	[450]	500	[625]
1-8	190	[237]	408	[506]	680	[850]	1-14	210	[263]	540	[675]	760	[950]
1-1/8-7	270	[337]	600	[750]	960	[1200]	1-1/8-12	300	[375]	660	[825]	1080	[1350]
1-1/4-7	380	[475]	840	[1050	1426	[1782]	1-1/4-12	420	[525]	920	[1150]	1500	[1875]
1-3/8-6	490	[612]	1010	[1375]	1780	[2225]	1-3/8-12	560	[700]	1260	[1575]	2010	[2512]
1-1/2-6	650	[812]	1460	[1825]	2360	[2950]	1-1/2-12	730	[912]	1640	[2050]	2660	[3325]
1-3/4-5	736	[920]	1651	[2063]	2678	[3347]	1-3/4-12	920	[1150]	2063	[2579]	3347	[4183]

METRIC:

Coarse thread metric class 10.9 fasteners and class 10.0 nuts and through hardened flat washers, phosphate coated, Rockwell "C" 38-45. Use value in [] if using prevailing torque nuts.

Nominal thread diameter (mm)	Newton Meters (Standard Torque)	Foot Pounds (Standard Torque)	Nominal Thread Diameter (mm)	Newton Meters (Standard Torque)	Foot Pounds (Standard Torque
6	10 [14]	7 [10]	20	385 [450]	290 [335]
7	16 [22]	12 [16]	24	670 [775]	500 [625]
8	23 [32]	17 [24]	27	980 [1105]	730 [825]
10	46 [60]	34 [47]	30	1330 [1470]	990 [1090]
12	80 [125]	60 [75]	33	1790 [1950]	1340 [1450]
14	125 [155]	90 [115]	36	2325 [2515]	1730 [1870]
16	200 [240]	150 [180]	39	3010 [3210]	2240 [2380]
18	275 [330]	205 [245]			

Table 3-1: General Torque Specifications

Hydraulic Fitting Torque Specifications

TORQUE IS SPECIFIED IN FOOT POUNDS- 37° JIC, ORS, & ORB (REV. 10/97)

This chart provides tightening torques for general purpose applications when special torques are not specified on process or drawing. Assembly torques apply to plated nuts and capscrews assembled without supplemental lubrication (as received condition). They do not apply if special graphite moly-disulfide or other extreme pressure lubricants are used. When fasteners are dry (solvent cleaned) add 33% to as received condition torque. Bolt head identification marks indicate grade and may vary from manufacturer to manufacturer. Thick nuts must be used on grade 8 capscrews. Use value in [] if using prevailing torque nuts.

Parker Brand Fittings

Dash Size	37 Degree JIC	O-Ring (ORS)	O-Ring Boss (ORB)
-4	11-13	15-17	13-15
-5	14-16		21-23
-6	20-22	34-36	25-29
-8	43-47	58-62	40-44
-10	55-65	100-110	58-62
-12	80-90	134-146	75-85
-16	115-125	202-218	109-121
-20	160-180	248-272	213-237
-24	185-215	303-327	238-262
-32	250-290		310-340

Gates Brand Fittings

Dash Size	37 Degree JIC	O-Ring (ORS)	O-Ring Boss (ORB)
-4	10-11	10-12	14-16
-5	13-15		
-6	17-19	18-20	24-26
-8	34-38	32-40	37-44
-10	50-56	46-56	50-60
-12	70-78	65-80	75-83
-14		65-80	
-16	94-104	92-105	111-125
-20	124-138	125-140	133-152
-24	156-173	150-180	156-184
-32	219-243		

Aeroquip Brand Fittings

Dash Size	37 Degree JIC	O-Ring (ORS)	O-Ring Boss (ORB)
-4	11-12	10-12	14-16
-5	15-16		16-20
-6	18-20	18-20	24-26
-8	38-42	32-35	50-60
-10	57-62	46-50	75-80
-12	79-87	65-70	125-135
-14			160-180
-16	108-113	92-100	200-220
-20	127-133	125-140	210-280
-24	158-167	150-165	270-360
-32	245-258		

Table 3-2: Hydraulic Fitting Torque Specifications

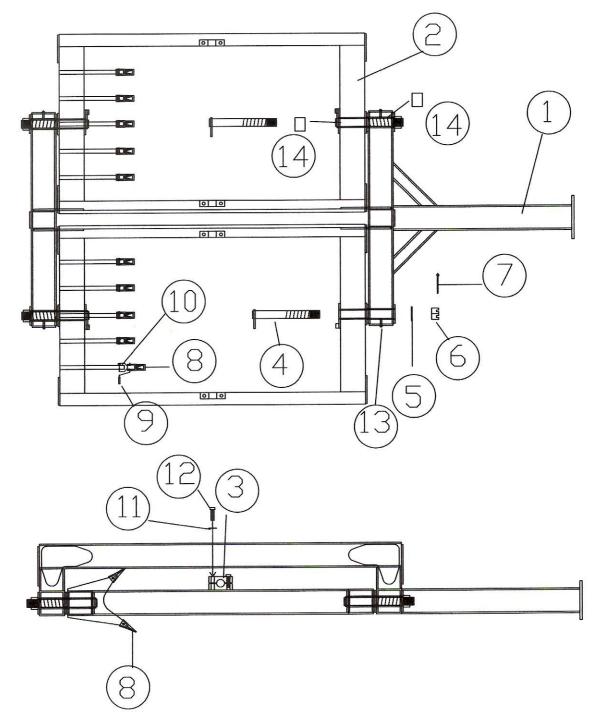
Safe Machine Operation

Safe and careful operation of the tractor, Rolling Packer, and machinery is essential to the prevention of accidents.

Since a large number of accidents occur as a result of fatigue or carelessness, proper operator rest and safety practices should be of utmost concern. The following safety suggestions should become common practice.

- Never allow the Packer to be operated by anyone who is not familiar with the operation of all functions of the unit. All operators of machinery should read, understand, and follow the safety recommendations described in this manual.
- Do not allow anyone to ride on, or be near the machine while it is in motion.
- Do not service or adjust the machine while the tractor is running. Shut off tractor, or if necessary, block the machine in a safe position.
- Always keep hands, feet, and clothing away from all moving parts.
- This machine has been designed and built with your safety in mind. Do not make any alterations or changes.
- Replace all safety and maintenance decals that are missing or damaged.
- Limit towing speed to a maximum of 12 mph.
- While operating the Rolling Packer, be aware of people and obstructions in the area.
- When dismounting the Rolling Packer from the tractor, be sure to position the machine on solid, level ground, and block the machine from rolling.
- When working in different conditions, us a tractor with sufficient weight, adequate power, and suitable braking, for gradient operation.
- Caution If water is used inside drum, do not allow to freeze.

Main Frame Parts List 4048 - 4848 - 4860 - 6060



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Shown below is the 93x60 smooth roller.



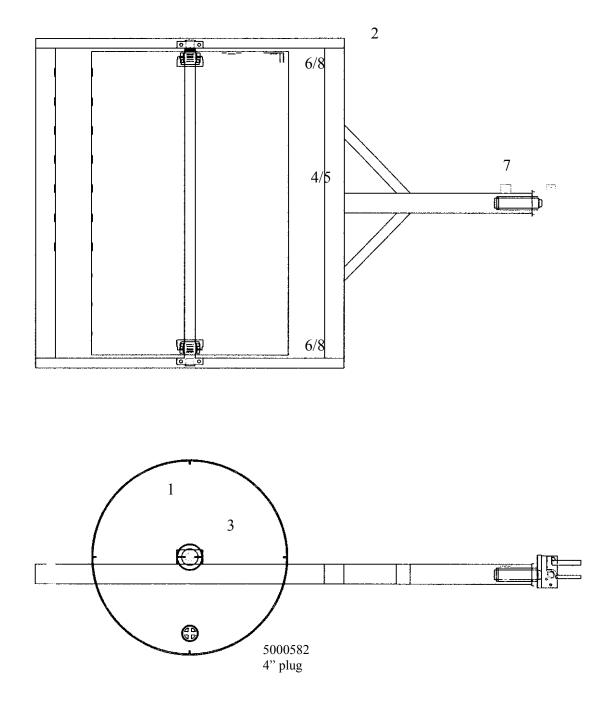
Smooth Drum Components



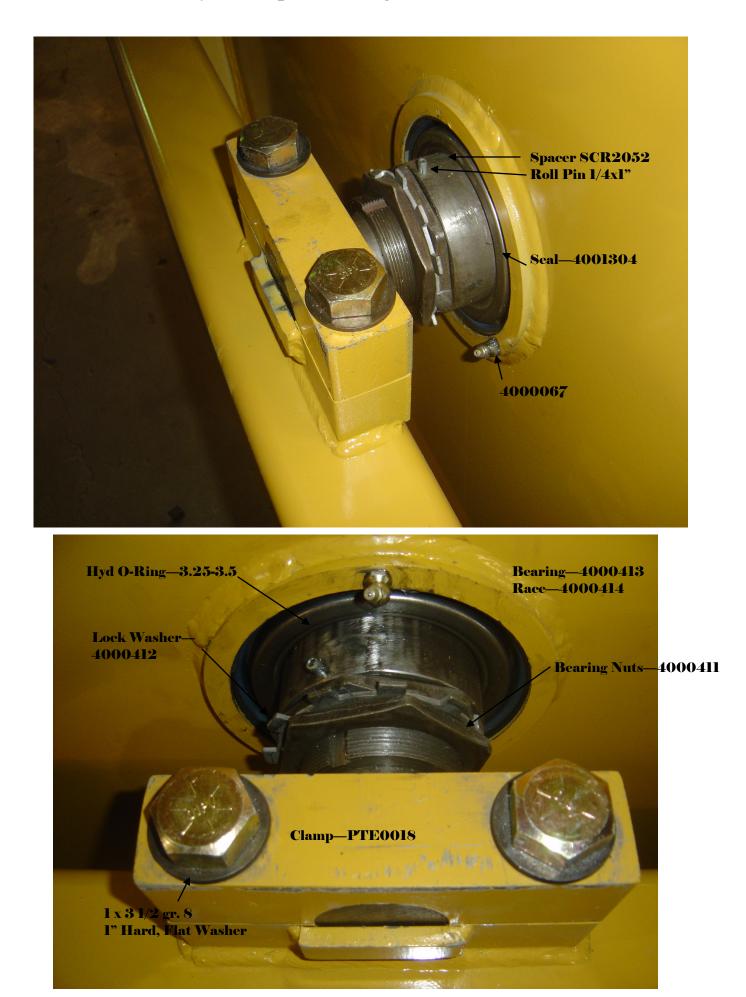
Parts Listing For 93x60 Smooth Roller

Part #	Description	Qty
2000550 (1)	Smooth Single Drum	1
PTE0141(2)	9360 Smooth Main Frame	1
PTE0018(3)	Drum Frame Clamp 2 7/16"	2
4001425(4)	9360 Scraping Blade	2
PTE0148(5)	9360 Smooth Packer Blade	2
4000150(6)	Bushing 125100100	4
4000001(7)	Jack (sidewind 15")	1
4001489(8)	Blade Spring	4
BI	Bolt, I-Bolt 3/8x3"	4
BH	Bolt, Hex 1 x 3 1/2"	4
WFH	Washer, Flat, Hard 1"	4
BC	Bolt, Carriage 5/8 x 2"	8
WFH	Washer, Flat, Hard 5/8"	16
WL	Washer, Lock 5/8"	8
NH	Nut, Hex 5/8"	8

9360 Smooth Drum Roller Frame



Packer Drum Assembly, with Tapered Bearings



Rolling Packer Main Frame Parts List	
4860—6060 (9" teeth w/tapered bearings)	

		4860—6060 (9" teeth w/tapered bearings)	
Ref	#	Part# Description	Qty
1.	PTE0114	Main Frame (60x60)	1
	PTE0011	(48x60)	1
2.	PTE0096	Drum Frame w/cleaners (60x60)	2
	PTE0102	(48x60)	2
3.	PTE0018	Drum Frame Clamp 2 7/16"	4
4.	PTE0006	Main Frame/Drum Frame Pin	4
5.	WFH	Washer, Flat, Hard 2 1/2"	4
6.	NS	Nut, Slotted 2 1/2" course	4
7.	PC	Pin, Cotter 3/8 x 5"	4
8.	PTE0111	Bolt On Cleaners	24
8a.	4000877	Cleaner Bar Tip (old style)	10
9.	4000878	Cleaner Tip Pin (old style)	10
10.	4000879	Tip Retainer Pin (old style)	10
11.	WFH	Washer, Flat, Hard 1"	8
12.	BH	Bolt, Hex 1x3 1/2" gr. 8	8
13.	4000837	Zerk, 1/8 x 2 5/8"	4
14.	4000541	Bushing, 275250250	8
15.	2000475	Drum Assembly w/tapered bearings (60x60)	2
	2000476	48x60	2
	PTE0099	60x60 Drum	2
	PTE0103	48x60 Drum	2
	PTE0115	60" Axle for tapered bearings	2 2 2 2 2 2 2 2 2
	PTE0104	48" Axle for tapered bearings	2
16.	PTE0101	Packer Lock Pin	2
17.	BH	Bolt, Hex 7/8x2 1/2" gr. 8	10
18.	WFH	Washer, Flat, Hard 7/8"	10
19.	NH	Nut, Hex 7/8"	10
20.	4001501	Packer Hitch (med duty, pintel)	1
21.	ICO1098	Hitch Pin Cap	1
22.	ICO0379	Hitch Pin	1
23.	4000867	Hitch Spring	1
24.	BH	Bolt, Hex 5/8 x 1 1/2" gr. 8	1
25.	BH	Bolt, Hex $5/8 \ge 23/4$ " gr. 8 (bolt on cleaners)	40
26.	WFH	Washer, Flat, Hard 5/8" (bolt on cleaners)	40
27.	NSQ	Nut, Square 5/8" (bolt on cleaners)	40
28.	4000413	Bearing, TIMKEN 580	4
29.	4000834	Bearing/housing (early style)	4
30.	4000414	TIMKEN Race 572	4
31.	4000411	Bearing Nut	4
32.	4001304	Bearing Seal CR 42627	4

33.	4001313	Hub snap Ring	4
34.	4000549	Hyd. O-Ring 3.25 x 3.52-236	2
35.	4000412	Bearing, Lock Washer E2467	2
36.	5000582	4" Barhead Plug	2
37.	4001536	Jack, 7,000 lb. Sidewind	1
38.	4001501	Pintel Hitch, Cast Med. Duty	1
39.	4001503	Pintel Hitch Tongue (U clevis)	1
40.	ICO0335	Drum Nut Wrench	1
41.	SCR2052	Drum Axle Spacer	2
42.	ICO0150	Quick Attach Tandem Drawbar Pin	1
43.	ICO0148	QA Pin Keeper	1
44.	PTE0079	Tandem Hitch	1

The optional leveling blade (shown) is available as part # 2000555





Parts Listing For The ICON 48x48 Packer w/optional leveling blade

PTE0142	Leveling Blade	1
4000823	Hyd. Cyl 3" x 8	1
5001071	Hyd. Adap. 12MB-8MFFOR	4
5000835	Pioneer 7/8 male end 8010-16P	2
5001108	Hyf. Adap 8MFFOR-8MB90	2
5000855	Hyd. Cushion Valve	1
5001109	Hose, 8FFORX-6C12MX28"	1
	Hose, 8FFORX-6C12MX34"	1
5001110	Hose, 8FFORX-6C12MX84"	2
ICO0004	Hose Stand	1
GRA1813	#2 Side Pipe Clamp	2
GRA1600	Cylinder Pin 1"	2
BH 1/2	Bolt, Hex 1/2 x 1 1/2"	2
BH 5/16	Bolt, Hex 5/16 x 3"	2
NL 5/16	Nut, Nyloc 5/16"	2
NL 1/2	Nut, Nyloc 1/2"	1
NW 1/2	Nut, Whiz 1/2"	2
BH 1	Bolt, Hex 1 x 3 1/2"	3
NL 1	Nut, Nyloc 1"	3
WL 1	Washer, Lock 1"	3
4000150	Bushing 125100100	4
4001478	Cutting Edge 9' grader blade	1
BP 5/8	Bolt, Plow 5/8 x 2"	16
		1000

Tandem Packer Hitch # 2000424

ICO0150 Drawbar Pin

ICO0149 QA Keeper 3/

3/4 x 2 1/2" Gr 8

5/8 x 2 1/2" gr 8

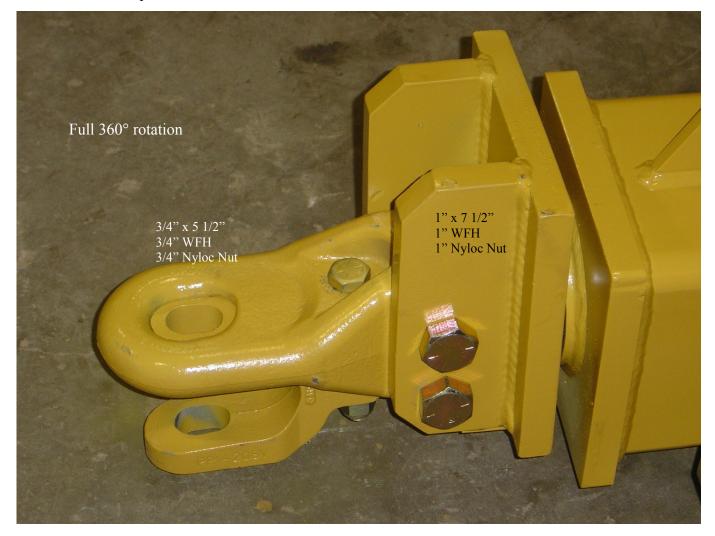
PTE0079 Tandem Hitch

Shown is the early model bolt on tandem hitch

Packer Hitch

The pintle style hitch used on the packer is rated at 68,800 lbs. and has a bolt on hammer strap for use if a straight drawbar is used.

Pintle Hitch.....4001501 Bolt on Hammer Strap.....4001503







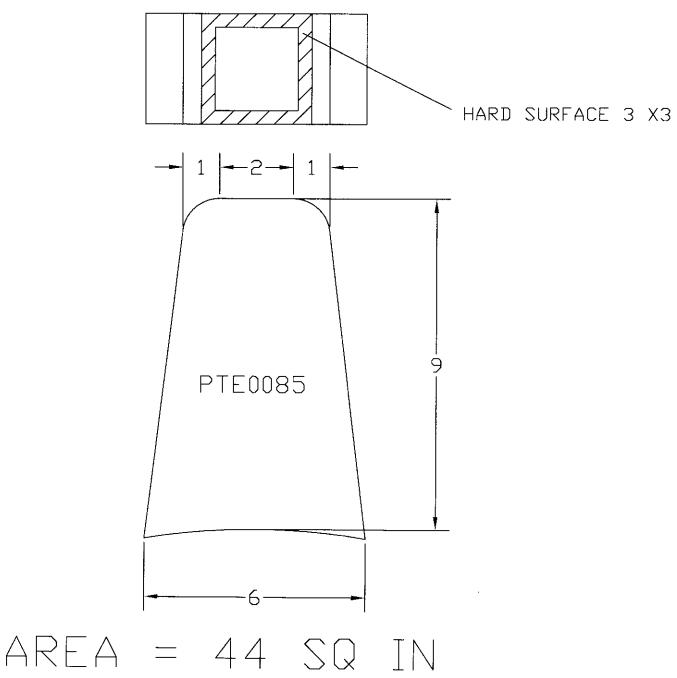
Shown are the packer lock pins. When pinned in place, aid in preventing flex of the roller drums. This is especially helpful when loading/unloading the roller.



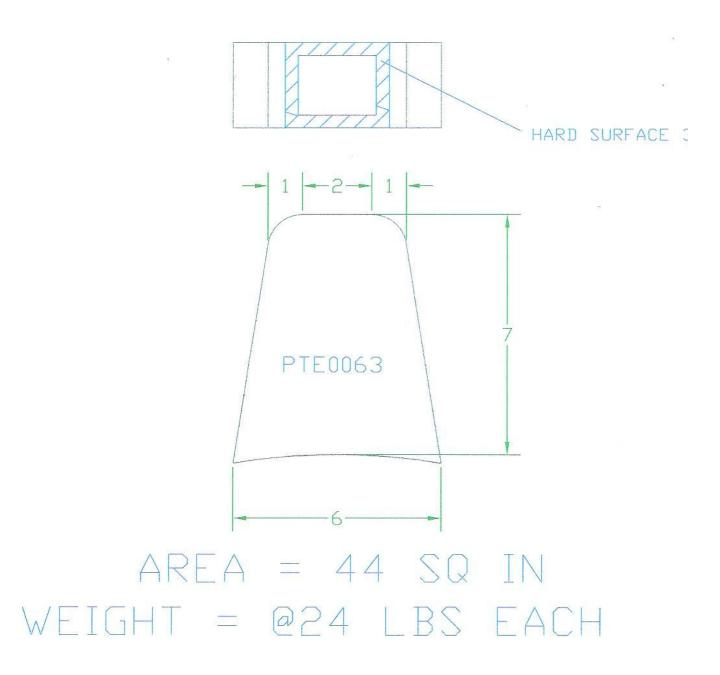




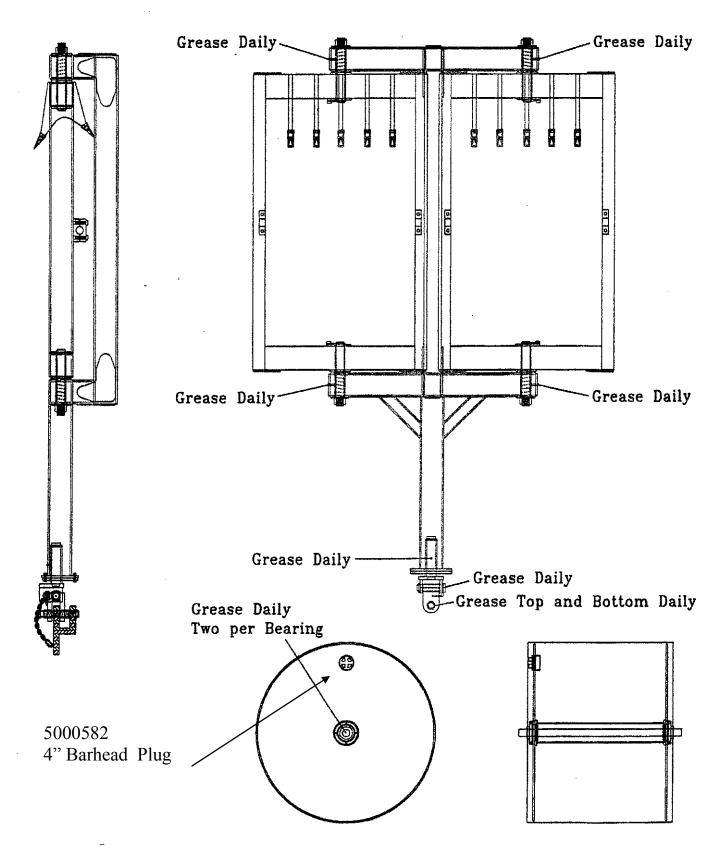




WEIGHT = @37.5 LBS EACH



PACKER Grease Guide

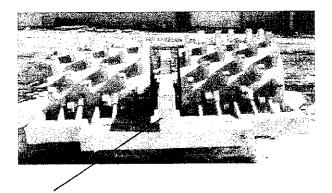


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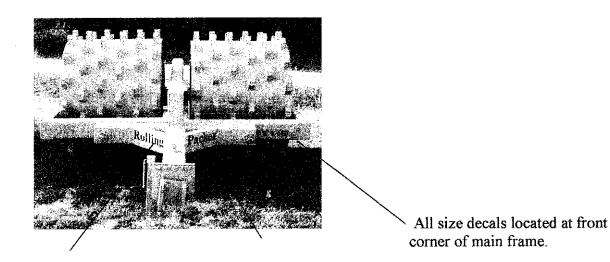
Rolling Packer General Specifications

Warning and Maintenance Decals Part #'s and Locations

Rolling Packe	r - 4000883
ICON	-4000431
60 x 60	- 4000888
Grease Daily	- 4000938
48 x 60	- 4000886
Danger	- 4000940



4000940 - Front and Rear vertical face of frame



4000883 - Both sides of tongue frame 4000938 - (grease daily) close proximity to zerks (8 locations)

Grease Daily

Decal Listing For ICON Rolling Packers





4000938 Grease Daily -----7 ----- located at each zerk

Decal Listing/Location For ICON Rolling Packer

#	Description	qty & location
4000883	Rolling Packer	3 - one ea side of tongue one on rear frame
4000885	48x48	2 - one ea corner
4000886	48x60	2 - one ea corner
4000888	60x60	2 - one ea corner
4000372	Caution Moving Parts	2 - front/rear of center beam
4000940	Danger Pinch Hazard	2 - front/rear of center beam
4001522	Landoll/ICON	2 - ea side center of main frame1 - on rear frame
4001535	Reflective tape (yellow)	2 - 9" pieces, one @ ea front corner
4001534	Reflective tape (red)	4 - 9" ea side corner of main frame 2 - 9" rear corner
4001533	Reflective tape (orange)	2 - 9" rear corner beside red
4000935	Manual	1 - near manual holder
4000938	Grease Daily	7 - Each Zerk





Equipment from Landoll Corporation is built to exacting standards ensured by ISO 9001 registration at all Landoll manufacturing facilities.

Model 4848/4860/6060/9360 Packer Service and Parts Manual

Re-Order Part Number F-968-0118

LANDOLL CORPORATION

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