

# JACOBSEN®

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## Accessory Manual

With Parts List

## Fairway Mowers

**30 inch - 6 Blades**

**Product No. 71105**

**Serial No. 24483**

**30 inch - 10 Blades**

**Product No. 71351**

**Serial No. 109951**

**Accessories:**

**Products 70093, 70094,  
70096 and 70097**

Litho in U.S.A. 397

Part No. 366296 AM



**WARNING:** *If incorrectly used this machine can cause serious injury. Those who use and maintain the machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.*

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By following all instructions in this manual, you will prolong the life of your machine and maintain its maximum efficiency. Adjustments and maintenance should always be performed by a qualified technician.

If additional information or service is needed, contact your Authorized Jacobsen Distributor who is kept informed of the latest methods to service this equipment and can provide prompt and efficient service.

**Use of other than original Jacobsen parts and accessories or Authorized Jacobsen parts and Accessories will void the warranty.**

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"All rights reserved, including the right to reproduce this book or portions thereof in any form".

All information in this publication is based on information available at time of approval for printing. Jacobsen reserves the right to make changes at any time without notice and without incurring any obligation.

1. Safety is dependent upon the awareness, concern and prudence of those who operate or service the equipment. Never allow minors to operate any equipment.
2. It is your responsibility to read this manual and all publications associated with this equipment (engine, accessories and attachments).
3. Learn the proper use of the machine, the location and purpose of all the controls and gauges before you operate the equipment. Working with unfamiliar equipment can lead to accidents.



*The safety alert symbol is used to alert you to potential hazards.*

**DANGER** - Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING** - Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION** - Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury and property damage. It may also be used to alert against unsafe practices.

4. Never allow anyone to operate or service the machine or its attachments without proper training and instructions; or while under the influence of alcohol or drugs.
5. Wear all the necessary protective clothing and personal safety devices to protect your head, eyes, ears hands and feet. Operate the machine only in daylight or in good artificial light.
6. Inspect the area where the equipment will be used. Pick up all the debris you can find before operating. Beware of overhead obstructions (low tree limbs, electrical wires, etc.) and also underground obstacles (sprinklers, pipes, tree roots, etc.) Enter a new area cautiously. Stay alert for hidden hazards.
7. Never operate equipment that is not in perfect working order or without decals, guards shields or other protective devices securely fastened in place.

8. Never disconnect or bypass any switch.
9. Carbon monoxide in the exhaust fumes can be fatal when inhaled. Never operate the engine without proper ventilation.
10. Fuel is highly flammable, handle with care.
11. Keep the engine clean. Allow the engine to cool before storing and always remove the ignition key.
12. Disengage all drives and engage parking brake before starting the engine (motor). Start the engine only when sitting in operator's seat, never while standing beside the unit.
13. Equipment must comply with the latest federal, state, and local requirements when driven or transported on public roads.
14. Operate the machine up and down the face of the slopes (vertically), not across the face (horizontally).
15. To prevent tipping or loss of control, do not start or stop suddenly, reduce speed when making sharp turns. Use caution when changing direction on slopes.



## WARNING

1. Before leaving the operator's position for any reason:
  - a. Disengage all drives.
  - b. Engage parking brake.
  - c. Stop engine and remove the ignition key.
2. Wait for all movement to stop before you clean, adjust or service the machine.
3. Keep the area of operation clear of all bystanders.
4. Never carry passengers.

# SPECIFICATIONS

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## 1.0 SPECIFICATIONS:

Cutting Width .....	30 in., (762 mm) each unit.
Gears .....	Precision machine cut
Reels .....	8 in., diameter, 6 or 10 blades made of special heat-treated steel, electrically welded to 5 steel discs.
Drive .....	Separate train of gears for each ground wheel.
Clutch .....	Separate clutch in each housing
Bearing .....	Tapered roller bearing for reel and ground wheels, roller bearings for intermediate gear, and tapered roller bearings in rear roller.
Lubrication .....	All gears and bearings lubricated from main reservoirs. Use Texaco Multifak HD00 or equiv. Jacobsen Pt. No. 5000068
Bed-Knife .....	Made from oil-hardened special alloy steel.

## 1.1 HEIGHT OF CUT:

17" (43.1 cm) .....	Steel Wheels: 3/8 to 2-3/4 in., (0.952 to 6.98 cm)
18" (45.7 cm) .....	Steel Wheels: 3/8 to 3 in. , (0.952 to 7.62 cm)
4 x 9 .....	Semi-Pneumatic: 3/8 to 2-3/4 in., (0.952 to 6.98 cm)
4 x 17 .....	Semi-Pneumatic: 3/8 to 2-3/4 in., (0.952 to 6.98 cm)
4 x 20 .....	Semi-Pneumatic: 15/16 to 3-1/2 in., (2.38 to 8.89 cm)

## 1.2 OPTIONS:

Grinding Instructions .....	Part No. 549595
Service Manual .....	Part No. 545709
18 in., Steel Wheel .....	Product No. 70093
4 x 17" Semi-Pneumatic Wheel.....	Product No. 70094
Micro Height Adjuster.....	Product No. 71001
17" Steel Wheel.....	Product No. 70096
4 x 20" Semi-Pneumatic Wheel.....	Product No. 70097
71105 Reels (Group of 3).....	Product No. 71108
71351 Reels (Group of 3).....	Product No. 71354
Rubber Covered Roller.....	Product No. 500701

## 2.0 OPERATING SUGGESTIONS

1. Before putting this attachment into operation, you should become thoroughly familiar with the tractor, the controls and the proper use of the equipment. You and each operator you employ should read this manual and the tractor's manual carefully in their entirety.

**CAUTION:** Do not attempt to drive the tractor unless you have read the Operator's Manual and know how to operate all controls correctly.

2. The most efficient operating speed for the mower is between 2 and 4 MPH depending on grass and ground conditions.
3. In most cases the tractor ground speed and cutting height can be varied to provide a good finished cut, however for extremely tall grass cut twice, first at a higher setting and then at the desired height.
4. The bedknife has been backed off the reel to prevent damage during shipping. It must be readjusted as described in Section 3.1.

**Important:** After the first eight hours of operation check the entire unit and tighten all hardware. It is especially important to check the wheel bearings to ensure they are not loose.

Refer to the service manual available through your Authorized Jacobsen Equipment Distributor.

## 2.1 DAILY CHECK LIST

1. Perform a visual inspection of the entire unit. Look for signs of abrasive wear, oil leaks, loose hardware, damaged reels etc.
2. Check the tires. Adjust the height of cut.
3. Study the area to determine the best and safest mowing procedure. Consider the height of the grass and the type of terrain (level, hilly, or rough) as well as the presence of rocks and other debris. Each condition will require certain adjustments or precautions.

**CAUTION:** Pick up as much debris as you can find before mowing. Enter a new area cautiously. Cut grass higher than desired the first time so mower will clear unseen obstructions and will not cause scalping if ground is rough.

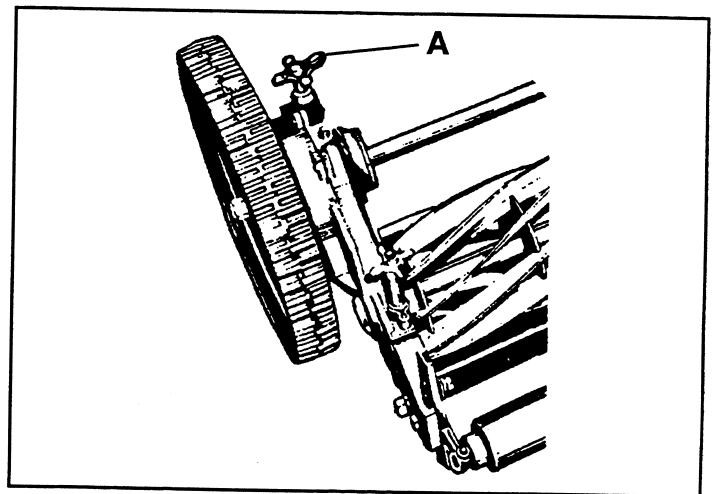
Operation at reduced speeds over sparsely grassed areas. Lack of sufficient "grass juice" to lubricate the blades will damage reel blades and bedknife.

4. Plan the mowing pattern so you can mow straight forward as much as possible.
5. Reversing and changing mowing direction each time you mow will help to eliminate matting, graining and corrugation. Additionally, constant turning in one direction only will produce uneven wear of gears and bearings.

## 2.2 TRANSPORT

1. You must comply with state and local regulations if this machine is towed on public roads.
2. When mowers are being transported, the reel clutches "A" (Figure 2A) should be disengaged.
3. If reels are allowed to remain engaged and rotate while being transported, excessive friction and heat will develop between the bedknife and the reel, resulting in severe damage to the cutting edges of both components.
  - a. To disengage the clutches, the pointers on both clutch handles should be turned toward the front of the mower.
  - b. To engage the clutch, the pointer should be turned toward the rear of the mower.
  - c. Since the clutch handles turn just a slight amount between the "engaged" and "disengaged" position, it is necessary to rock the wheels back and forth to make sure the pawls are fully engaged or disengaged.

Figure 2A



# ADJUSTMENTS

## 3.0 PROCEDURE



### WARNING

To prevent serious injury, always disengage all drives, lower implement to the ground, engage parking brake, stop engine and remove the ignition key before you adjust, clean or repair this equipment.

1. Adjustments and maintenance should always be performed by a qualified technician. If proper adjustment cannot be made, contact an Authorized Jacobsen Distributor.
2. Do not wear jewelry or loose fitting clothing when making adjustments or repairs.



**CAUTION:** Be careful to prevent entrapment of the hands and fingers between moving and fixed components of the machine.

3. Inspect the equipment on a regular basis, establish a maintenance schedule and keep detailed records.
  - a. Keep the equipment clean and moving parts properly adjusted and lubricated.
  - b. Replace worn or damaged parts before operating the machine.
  - c. Keep shields in place and all hardware securely fastened.
  - d. Keep tires properly inflated.
4. Wash the equipment after each use. Do not wash any portion of the equipment while it is hot. Do not spray water directly at bearing housings and seals. Do not use high pressure spray or steam.
5. Repair damaged metal surfaces and use Jacobsen "Orange" touch-up paint.
6. Use the illustrations in the Parts Catalog as reference for the disassembly and reassembly of components.

### 3.1 BEDKNIFE

Grass is cut by the shearing action that takes place between blades of the rotating reel coming in contact with the forward edge of the stationary bedknife. Only the slightest possible contact is necessary for satisfactory performance.

Proper adjustment will result in a self-sharpening action.

1. The bedknife is adjusted by turning the handles "E" (Figure 3A) on each end of the unit. Turn the handles clockwise to bring bedknife closer to reel and counter-clockwise to move it away.
  - a. When adjusting the bedknife to meet the reel, both adjusting handles must be drawn up simultaneously. Turn the handles by hand, do not use tools.

- b. Be sure that both ends of the bedknife are always adjusted evenly to the reel. Adjusting only one side will cause the bedknife and reel to wear at an angle or taper.

2. Spin the reel backwards by hand and make a very light uniform adjustment. Then slowly turn the reel forward and make a very fine adjustment, if needed, between the reel and the bedknife so that they will shear paper (approximately 0.004" or 0.010 cm thickness) across the entire length of the bedknife.

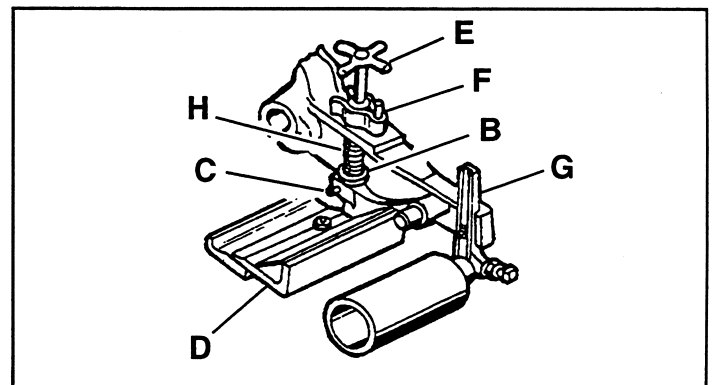
The reel should spin freely approximately two revolutions before stopping. A perfect adjustment is zero contact and zero clearance between the bedknife and reel.

3. Mowers are equipped with a spacer "B" (Figure 3A) to provide greater spring pressure on the bedknife shoe. When spring (H) is fully compressed, remove spacer (B); to allow an additional 5/16" (7.93 mm) adjustment.

### 3.2 REEL BEARING

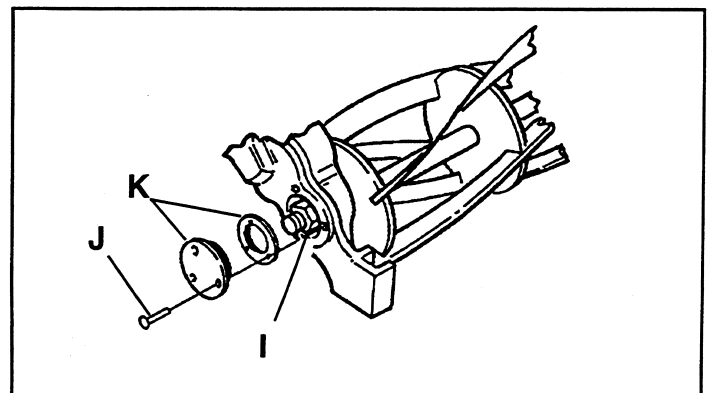
1. Refer to (Figure 3A). Remove both bedknife adjusting handles, springs and screws (Items E, H, C and F) to allow the backing assembly (D) to swing free of reel.

Figure 3A



2. Refer to (Figure 3B). Remove hardware (J) and the right hand drive wheel to hub, gear case cap (K).

Figure 3B



3. Hold reel from turning and tighten reel shaft nut (I) very carefully until all end play is eliminated and reel turns freely.

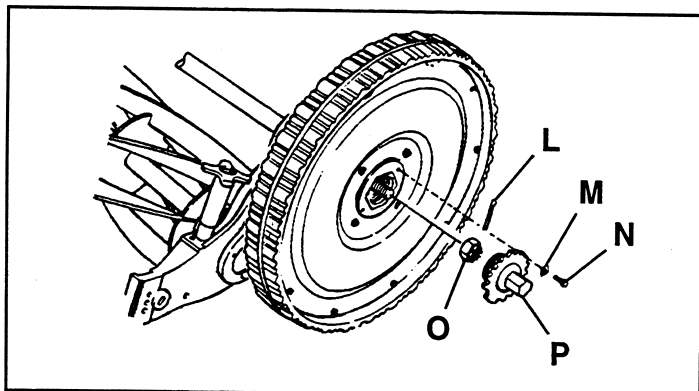
**Important:** Do not tighten nut beyond this point or the gear housings will be drawn inward and cause the bedknife backing assembly to bind. The bedknife backing assembly must swing freely between gear housing at all times.

4. Reposition bedknife (D), adjusting handles (E), springs (H), and screws (C) and adjust backing assembly to reel.
5. Reassemble gear case cap (K) and drive wheel to hub.

## 3.3 WHEEL BEARING

1. The bearing nut must be adjusted so that there is no bearing end play, (too loose) or so tight that it creates drag. Either condition will create excessive wear to the entire geartrain.
  - a. Remove lock screw (N) and retaining tab (M) from wheel hub.
  - b. The wheel hub cap (P) has been tightened to 300 ft-lbs. (540 Nm) and will require some force to remove.
2. Remove cotter pin (L) and tighten or loosen nut (O) as required. Reassemble or replace the cotter pin.
3. Before you reassemble the hub cap (P), apply a non hardening gasket compound, such as Permatex No. 2, to the threads.
  - a. Torque cap to 300 ft lbs.
  - b. Reassemble lock screw and retaining tab.

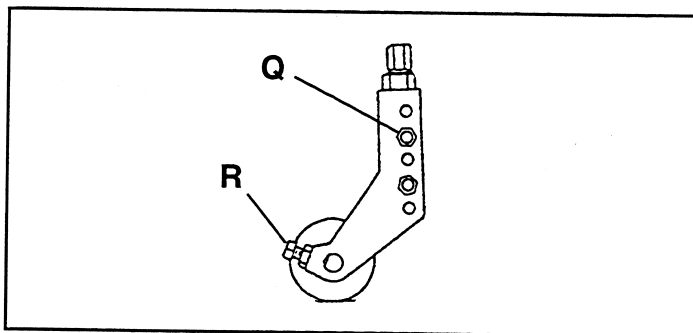
Figure 3C



## 3.4 REAR ROLLER

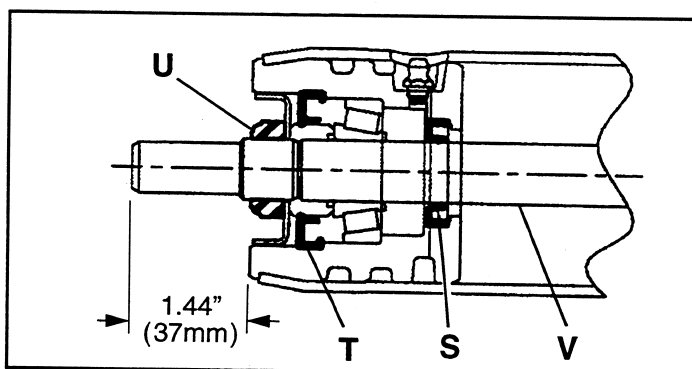
1. Refer to (Figure 3D). Center the rear roller between the brackets. Torque screws (R) to 38-57 ft/lbs. (5.25 - 7.88 kg/m).

Figure 3D



2. When replacing the bearing, the cup and cone should be replaced in sets.
3. To remove the bearing cup, use a blind hole bearing puller.
4. Refer to (Figure 3E). When installing the seals (S and T) be sure the lip is towards the center of the roller.
5. After complete assembly of roller, turn lock nuts (U) so the shaft extends 1.44" from the roller.

Figure 3E



6. Tighten locknuts (U) to 10 - 30 ft/lbs to seat bearings and eliminate end play.
7. Readjust locknuts to develop 5 to 8 in/lb rotational torque resistance on shaft (V).

## 3.5 HEIGHT ADJUSTMENT

See "Cutting Height Chart" (Page 8)

1. Remove roller bracket bolts "Q" (Figure 3D). Raise or lower as desired by relocating bolts in the proper hole combinations as shown on chart.
2. Tighten bolts securely after completing adjustment.

**Note:** Be sure that bolts on both ends of roller assembly are in corresponding holes.

**HEIGHT SETTING CHART FOR OFF-SET ROLLER BRACKETS**

Hole No. in Bracket	Hole No. in Housing	17" Steel Wheel	18" Steel Wheel	4 x 20 Tires Semi-Pneumatic	4 x 9 Tires and 4 x 17 Semi-Pneumatic
8	1				
8	2		3/8 (.952)		
7	1		1/2 (1.27)	11/16 (1.74)	
8	3		11/16 (1.74)	15/16 (2.38)	
7	2	3/8 (.952)	3/4 (1.90)	1-1/16 (2.69)	7/16 (1.11)
6	1	1/2 (1.27)	7/8 (2.22)	1-3/16 (3.01)	1/2 (1.27)
7	3	5/8 (1.58)	1 (2.54)	1-5/16 (3.33)	11/16 (1.74)
6	2	3/4 (1.90)	1-1/8 (2.85)	1-7/16 (3.65)	13/16 (1.06)
5	1	7/8 (2.22)	1-7/32 (3.09)	1-9/16 (3.96)	15/16 (2.38)
6	3	1 (2.54)	1-3/8 (3.49)	1-11/16 (4.28)	1-1/16 (2.69)
5	2	1-1/8 (2.85)	1-1/2 (3.81)	1-13/16 (4.60)	1-3/16 (3.01)
4	1	1-1/4 (3.17)	1-5/8 (4.12)	1-15/16 (4.92)	1-5/16 (3.33)
5	3	1-3/8 (3.49)	1-3/4 (4.44)	2-1/16 (5.23)	1-7/16 (3.65)
4	2	1-1/2 (3.81)	1-7/8 (4.76)	2-3/16 (5.55)	1-9/16 (3.96)
3	1	1-5/8 (4.12)	2 (5.08)	2-5/16 (5.87)	1-5/8 (4.12)
4	3	1-3/4 (4.44)	2-1/8 (5.39)	2-7/16 (6.20)	1-13/16 (4.60)
3	2	1-7/8 (4.76)	2-1/4 (5.67)	2-9/16 (6.50)	1-15/16 (4.92)
2	1	2 (5.08)	2-3/8 (5.99)	2-5/8 (6.66)	2 (5.08)
3	3	2-1/8 (5.39)	2-1/2 (6.31)	2-13/16 (7.14)	3-3/16 (5.55)
2	2	2-1/4 (5.67)	2-19/32 (6.58)	2-7/8 (7.30)	2-1/4 (5.67)
1	1	2-3/8 (5.99)	2-11/16 (6.78)	3 (7.62)	2-3/8 (5.99)
2	3	2-1/2 (6.31)	2-13/16 (7.10)	3-1/8 (7.93)	2-1/2 (6.31)
1	2	2-3/4 (6.94)	2-15/16 (7.42)	3-3/16 (8.09)	2-9/16 (6.50)
1	3	2-7/8 (7.26)		3-7/16 (8.74)	2-3/4 (6.94)

(Numbers in parenthesis are centimeters.)

**Note:** Holes are counted from the top of the bracket and housing, down toward the ground.





## WARNING

To avoid possible serious bodily injury, before performing any maintenance, remove pull frame from the tractor or stop engine, set parking brake and remove key from ignition switch.

### 4.0 GENERAL MAINTENANCE

1. The long, trouble-free life of your machine depends on the maintenance it receives. Set up a maintenance program to cover the following points:
  - a. Keep the tractor and attachment clean.
  - b. Keep all moving parts properly adjusted and lubricated.
  - c. Keep all fluids at their proper levels.
  - d. Inspect for loose, worn or damaged parts.
  - e. Keep shields in place and all hardware securely tightened.
2. If your inspection reveals worn or damaged parts, replace the parts before operating machine or before actual breakdown occurs.
3. Use the illustrations in the Parts Catalog as reference for the disassembly and assembly of components.
  - a. Always maintain relative position of parts when disassembling.
  - b. Clean and lubricate individual parts and components as required.

### 4.1 PAINTING

For protection and appearance, clean and retouch scratched or worn painted surfaces. Jacobsen "Orange" spray paint cans, in 12-3/4 ounces, are available at your Jacobsen Turf Equipment Distributor.

### 4.2 TIRES

Semi-pneumatic wheels (products 70094 and 70097) must be mounted on the Mower so the "V" tread, points to the rear of the mower when viewed from the top of the mower.

The "direction arrows" on the side of tires should be disregarded.

### 4.3 BLADE SHARPENING

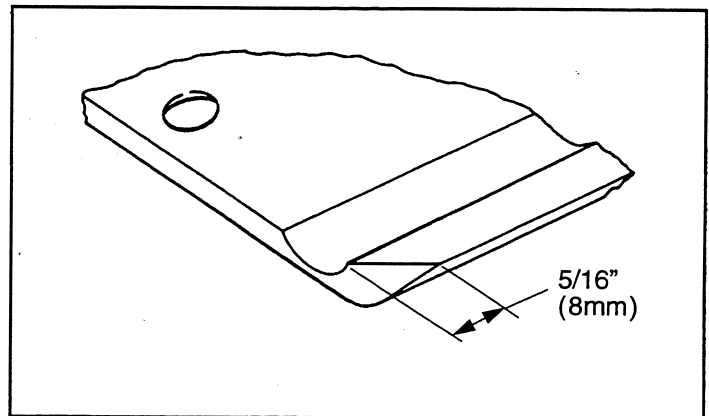
When it becomes necessary to sharpen either the reel or bedknife by the grinding process, we recommend that the work be performed by an experienced person using the proper grinding equipment.

The reel and bedknife should be checked to determine if backlapping or grinding will restore the proper cutting edge. Refer to the "Grinding Instructions for Jacobsen Reel Mowers" available through your Jacobsen Distributor.

**Important:** When lapping the reel, always attach lapping machine to left hand nut on reel shaft. Do not lap reel from right hand side.

- a. If wear or damage is beyond the point where the reel or bedknife can be corrected by the lapping process, they must be reground.
- b. We recommend that this work be contracted through an authorized Jacobsen Distributor who has trained personnel and the proper equipment to perform this type of work.
- c. The R.H. end of bedknife should have a small bevel (Dub) at all times.

Figure 4A



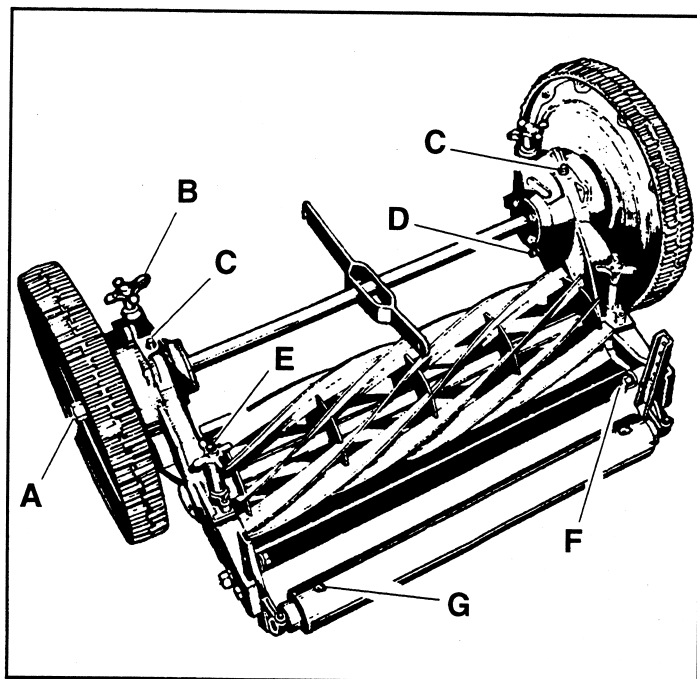
# LUBRICATION

## 5.0 GENERAL

Lubrication coupled with cleanliness is the most inexpensive preventative maintenance tool.

1. Always clean the area around grease fittings before and after lubricating.
2. Apply grease with a grease gun and fill slowly until grease begins to seep out. Do not use compressed air guns.

Figure 5A



## 5.1 REAR ROLLER

Every 250 hours, lubricate rear roller through grease fitting (G) with a good grade of multi purpose moly 2 EP grease.

## 5.2 GREASE HOUSING

Use one pint or 0.473 liters (1 lb. or .453 kg) in each gear housing. Insert lubricant through filler plug (C) on top of housings.

To check oil level remove plug (D) on gear housing.

## 5.3 WHEELS

Wheel bearings and wheel cylinders should be repacked with good quality, fibre base, wheel bearing grease twice each season.

**Important:** Before reinstalling the hub cap, apply Permatex #2 to the face of the wheel hub in contact with the hub cap.

## 5.4 BEDKNIFE ADJUSTING HANDLE

Remove the plugs twice each season from the top of adjusting handles (E) and place one teaspoon of any good quality winter grade chassis lubricant into the handles. Replace plugs. We also recommend that a few drops of light engine oil be placed on each end of the bedknife backing journals (F).

**Important:** Keep base of adjusting handle free of lubricant.

## 5.5 FRICTION POINTS

For smooth operation of all levers, pivot points and other friction points apply several drops of SAE 30 oil every 50 hours or as required.

## 6.0 GENERAL

At the end of the mowing season or when you do not plan to use your mower for some time, it should be kept dry and protected during storage. Unnecessary exposure to the elements may deteriorate its appearance and shorten its usual service life.

1. Wash off accumulated grass clippings and dust with spray from a garden hose. If necessary, a soft bristled scrub brush can be used to clean impacted areas.
2. Lubricate the mower as instructed in the "Lubrication" Section.
3. Paint the exposed metal or brush a light coat of rust preventative oil over unpainted metal. Use oil that complies with SAE #30 MIL-L-21260 Standards.
4. Store the mower so the weight is off the tires and check the tire pressure at regular intervals.

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## TO ORDER PARTS

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1. Write your **full name** and **complete** address on the order.
2. Explain where and how to make shipment.
3. Give product number, name and serial number that is stamped on the nameplate or serial plate of your product.
4. Order by quantity desired, the Part Number, and description of the part as given in the parts list.
5. Send or bring the order to an Authorized Jacobsen Distributor.
6. Inspect all shipments on receipt. If any parts are damaged or missing, file a claim with the carrier before accepting.
7. Do not return material to your Authorized Jacobsen Distributor without a letter of explanation. List the parts being returned and include the list with the shipment. Transportation charges must be prepaid.

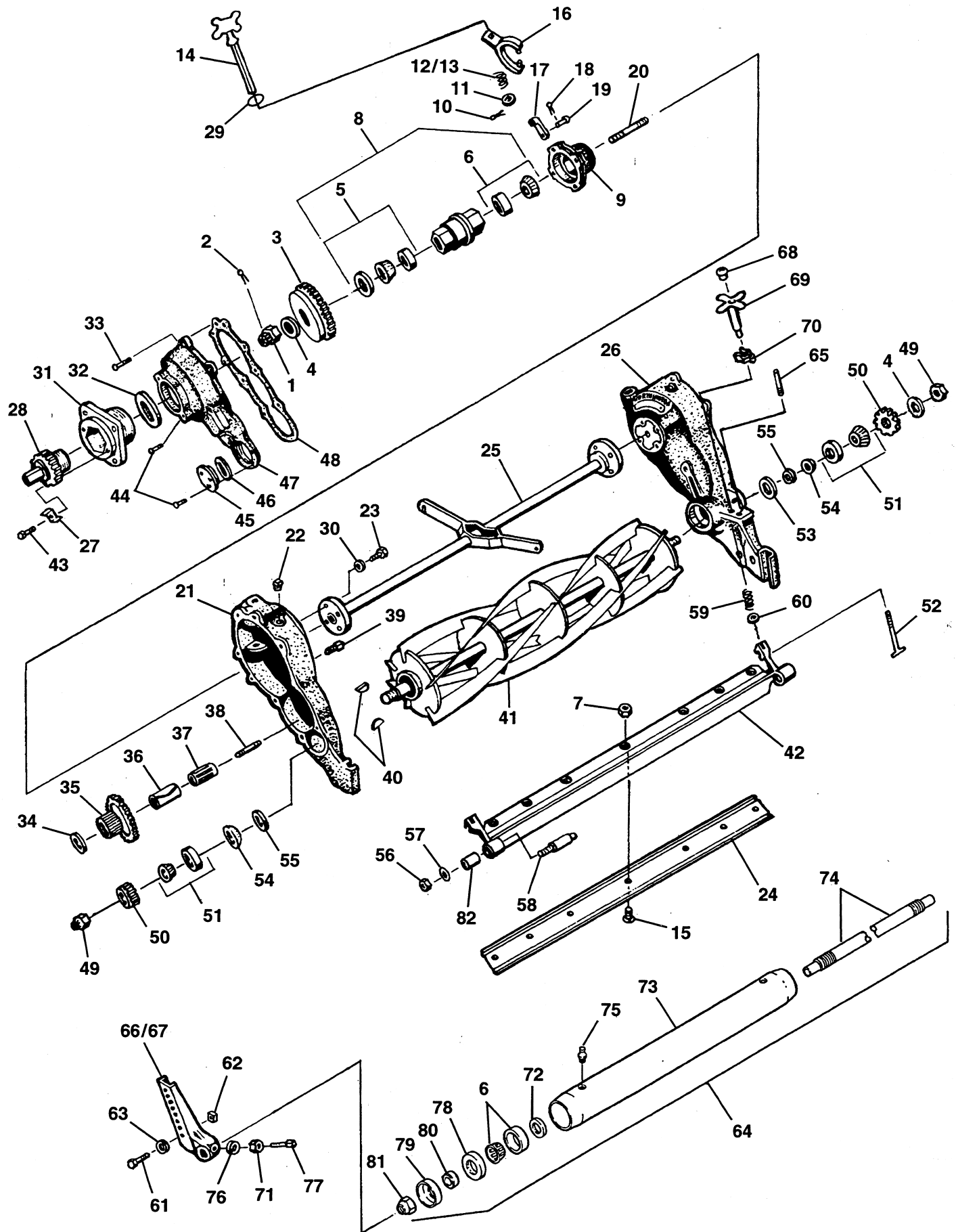
# ILLUSTRATION 1

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
1	445686	2	Nut, 3/4-16 Castle	42	503621	1	Backing, Bedknife
2	460028	2	Pin, 1/8" x 1", Cotter	43	400106	2	Screw, 1/4-20 x 5/8" Hex Hd Cap
3	220275	2	Gear, Main	44	408052	10	Screw, 12-24 x 1/2" Binding Head
4	453022	2	Washer, 3/4 SAE	45	352635	2	Cap, Cover
5	500533	2	Roller Bearing Cup, Cone and Ring	46	315876	2	Gasket
6	500534	2	Wheel Bearing, Cup and Cone	47	203986	2	Cover, Housing
7	445684	7	Nut, 3/8-24 Hex	48	315928	2	Gasket, Cover
8	500236	2	Cylinder, Wheel (Incl. Items 5 and 6)	49	367029	2	Locknut
9	203975	2	Wheel, Pawl	50	315843	2	Pinion, Reel
10	460026	2	Pin, 1/8 x 3/4 Cotter	51	500711	2	Bearing, Cup and Cone
11	315861	2	Washer	52	315965	2	Screw, Adjusting
12	3003158	1	Spring, Clutch Handle, L.H.	53	315910	1	Spacer, R.H. Side Only
13	3003157	2	Spring, Clutch Handle, R.H. (Not Illustrated)	54	315872	2	Seal
14	153215	2	Handle, Clutch	55	315873	2	Washer, Seal
15	402698	7	Screw, 3/8-24 x 3/4 Flat Hd.	56	443828	2	Nut, 5/8-18 Hex, Jam
16	241815	2	Fork, Clutch	57	447224	2	Washer, 5/8 Shakeproof
17	241810	8	Pawl	58	315909	2	Stud-Bedknife Backing
18	460012	8	Pin, 3/32 x 5/8, Cotter	59*	315966	2	Spring, Compression
19	315867	8	Pin, Pawl	60	352435	2	Spacer
20	545515	2	Stud, Ground Wheel	61	400266	2	Screw, 3/8-16 x 1-1/2" Hex Hd Cap
21	154499	1	Housing, Gear, L.H.	62	444510	2	Nut, 3/8-16 Sq
22	472205	2	Plug, 3/8 Sq. Hd. Filler	63	446142	2	Lockwasher, 3/8 Hvy
23	400406	8	Screw, 1/2-13 x 1-1/4 Hex Hd Cap	64	132506	2	Steel Roller Assembly (Includes Items 6, 72~75, 78~81)
24	315834	1	Bedknife	65	461406	2	Pin, 3/8 x 1-3/4 Roll
	335237	1	Bedknife Optional	66	500763	1	Bracket, Roller, L.H.
25	108096	1	Axle, Main	67	500764	1	Bracket, Roller, R.H.
26	154500	1	Housing, Gear, R.H.	68	344708	2	Plug
27	327676	2	Tab, Locking	69	500548	2	Handle, Adjusting (Includes Item 68)
28	204119	2	Cap, Hub	70	315964	2	Spring, Friction
29	459004	2	O-Ring	71	443818	2	Nut, 1/2-13 Hex Jam
30	446152	8	Lockwasher, 1/2 Med.	72	338647	2	Seal
31	203984	2	Hub, Ground Wheel	73	132505	1	Roller Tube Assembly
32	315967	2	Seal, Cover	74	3003413	1	Roller Shaft
33	407706	18	Screw, 1/4-20 x 7/8 Phillips	75	471214	2	Grease Fitting
34	302295	2	Washer	76	446154	2	Lockwasher, 1/2 Hvy
35	331834	2	Gear, Intermediate	77	412003	2	Screw, 1/2-13 x 1-1/2" Sq Hd
36	315978	2	Sleeve, Roller Bearing	78	338646	2	Seal
37	315977	2	Bearing, Roller	79	338645	2	Deflector Cup
38	315851	2	Stud, Intermediate Gear	80	366168	2	Sleeve
39	472203	2	Plug, 1/4" Sq. Hd. Level	81	367029	2	Locknut
40	315877	4	Key, Pinion	82	545723	2	Bushing
41	502671	1	Reel, 6 Blade Std.				
	502676		Reel, 5 Blade, Optional				
	502675		Reel, 10 Blade, Optional				

\* - Refer to "Adjustment" Section, Bedknife Adjustment, Step 4b.

For gear and bearing lubrication, use Texaco Multifak HD00 or Equiv, Jacobsen Part No. 5000068.

# ILLUSTRATION 1

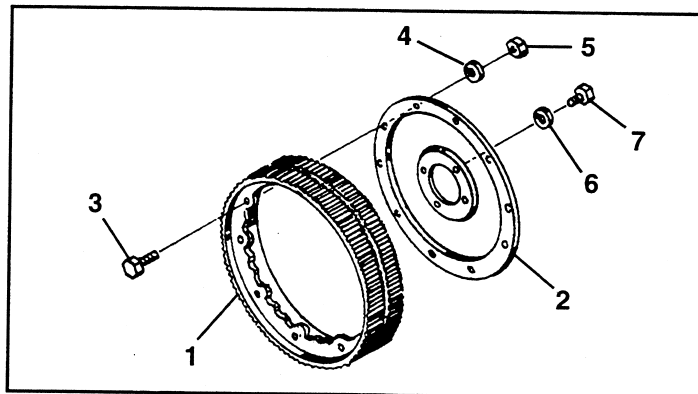


# WHEEL ACCESSORIES

## 18" Steel Wheel

Product No. 70093

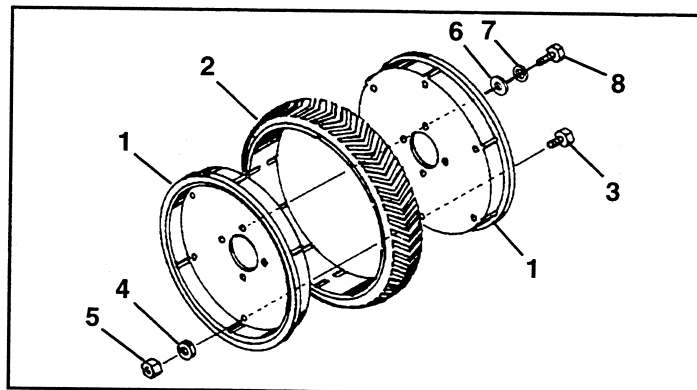
Item	Part No.	Qty.	Description
1	203987	2	Rim, Wheel
2	315938	2	Disc, Wheel
3	400226	20	Screw, 5/16-24 x 1" Hex Hd
4	310266	20	Washer
5	444754	20	Nut, 5/16-24 Hex C/Lock
6	400436	8	Screw, 1/2-20 x 7/8" Hex Hd
7	446152	8	Lockwasher, 1/2 Med



## 4.00 x 17 Semi-Pneumatic

Product No. 70094

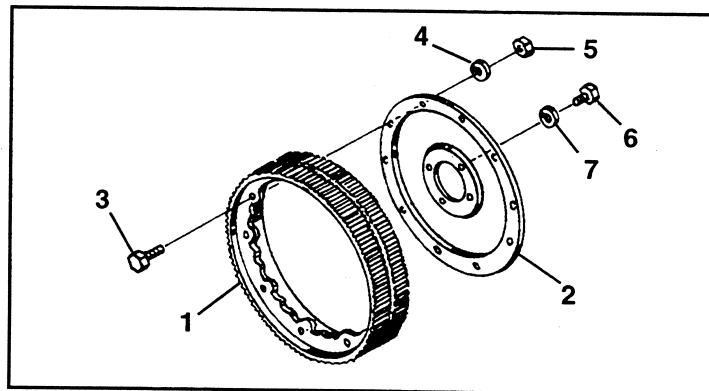
Item	Part No.	Qty.	Description
1	329120	4	Disc, Wheel
2	344137	2	Tire, 4.00 x 17
3	400184	8	Screw, 5/16-18 x 3/4" Hex Hd Cap
4	446134	8	Lockwasher, 5/16 Med
5	443106	8	Nut, 5/16-18 Hex
6	344132	8	Washer
7		8	Lockwasher, 1/2 Med
8	500897	8	Screw, 1/2-20 x 1-1/4" Hex Hd Cap (Includes Item 7)



## 17" Steel Wheel

Product No. 70096

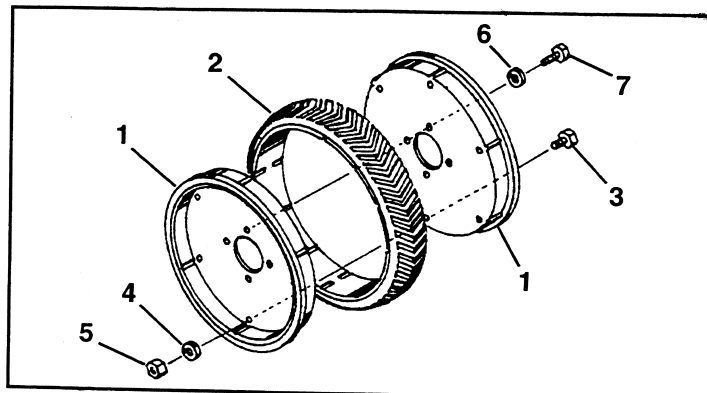
Item	Part No.	Qty.	Description
1	203992	2	Rim, Wheel
2	315939	2	Disc, Wheel
3	400226	20	Screw, 5/16-24 x 1" Hex Hd Cap
4	310266	20	Washer, Disc and Rim Mtg.
5	444754	20	Nut, 5/16-24 Hex Gripco
6	400436	8	Screw, 1/2-20 x 7/8" Hex Hd Cap
7	446152	8	Lockwasher, 1/2 Med



## 4.00 x 20 Semi-Pneumatic Wheel

Product No. 70097

Item	Part No.	Qty.	Description
1	336054	4	Disc, Wheel
2	316482	2	Tire, 4.00 x 20, Semi-Pneumatic
3	400258	12	Screw, 3/8-16 x 3/4" Hex Hd
4	446140	12	Lockwasher, 3/8
5	443110	12	Nut, 3/8-16 Hex
6	446152	8	Lockwasher, 1/2 Med
7	400438	8	Screw, 1/2-20 x 1" Hex Hd



# Limited Warranty

## 1. Warranty

Jacobsen Division of Textron Inc., (Jacobsen) warrants only to the original retail purchaser ("Warranty") that this product shall be free from defects in material and workmanship for a period of one year from the date of the first retail purchase. (90 days if used for rental purposes)

## 2. Items Not Warranted

Jacobsen makes no warranties or representations with respect to repairs performed by anyone other than an Authorized Jacobsen Distributor or with respect to, where applicable, engines\*, batteries, tires, and ROPS, which are separately warranted by their respective manufacturers. Routine adjustments or normal wear and maintenance items are not covered by this warranty.

## 3. Conditions Which Will Void Warranty

- A) The speed of the unit is increased beyond factory specifications or the product is modified in any way which would adversely affect its safety or performance;
- B) The unit is not maintained or serviced in accordance with this publication;
- C) The unit is abused, or is not used in its intended manner.

## 4. Exclusive Remedy

The warranty's sole and exclusive remedy for breach of this warranty or any defect or failure of the product, including any remedy provided by applicable federal or state law, statutory or common, is that Jacobsen will, at its sole option, repair or replace the product or any defective parts and cover the cost of labor associated with such repair or replacement. Transportation costs are not covered by this warranty.

## 5. How to Obtain Warranty Service

If warranty repair is necessary, contact an Authorized Jacobsen Distributor. All defective parts must be returned to the Distributor and become the property of Jacobsen.

## 6. Disclaimer

- \* *This warranty is made in lieu of all other warranties, implied or express, including any warranty of merchantability or fitness for a particular purpose.*
- \* *Jacobsen further disclaims any liability for incidental, direct or consequential damages, to include by not limited to, personal injury or property damage, arising from a breach of this warranty or any other defect or failure of the product to the extent allowed by law.*

No agent, employee or representative of Jacobsen, or any other person, has the authority to bind Jacobsen to any other affirmation, representation, or warranty concerning the goods sold under this Warranty.

For Further information, call (414) 637-6711 or write:

**Jacobsen, Division of Textron Inc.**

Warranty Department  
1721 Packard Avenue  
Racine, Wisconsin 53403-2564

\* *Kubota engines are warranted by Jacobsen. All other engines are warranted by their respective manufacturers.*

**JACOBSEN TEXTRON**

Jacobsen Division of Textron Inc.

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