



## PUSH-TYPE SCARIFIER - POWER RAKE

**754874**

**REN-O-THIN V BRIGGS & STRATTON  
W/ FIXED BLADE**

**754875**

**REN-O-THIN V HONDA  
W/ FIXED BLADE**

**MAN 4173838**  
Rev. A 08-2016

OPERATORS MANUAL 4173837



**SCHILLER**

GROUNDS  
CARE

# PARTS MANUAL

**CALIFORNIA**

**Proposition 65 Warning**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

**⚠ WARNING**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Californie Proposition 65 Avertissement**

Les échappements des moteurs diesel et certains de leurs composés sont reconnus par l'Etat de Californie pour être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.

**⚠ AVERTISSEMENT**

L'émission du moteur de ce matériel contient des produits chimiques que l'Etat de Californie considère être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.

**California Advertencia  
de la Proposicion 65**

El estado de California hace saber que los gases de escape de los motores diesel y algunos de sus componentes producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.

**⚠ ADVERTENCIA**

El estado de California hace saber que los gases de escape de este producto contienen productos químicos que producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.

**CALIFORNIA**

**Proposition 65 Warning**

Battery posts, terminals, wiring insulation, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.  
**WASH HANDS AFTER HANDLING.**

## IMPORTANT MESSAGE

Thank you for purchasing this Schiller Grounds Care, Inc. product. You have purchased a world class product, one of the best designed and built anywhere.

This machine comes with a Technical Manual containing safety, operation, parts, maintenance and service information. The useful life and good service you receive from this machine depends to a large extent on how well you read and understand this manual. Treat your machine properly, lubricate and adjust it as instructed, and it will give you many years of reliable service.

Your safe use of this Schiller Grounds Care, Inc. product is one of our prime design objectives. Many safety features are built in, but we also rely on your good sense and care to achieve accident-free operation. For best protection, study the manual thoroughly. Learn the proper operation of all controls. Observe all safety precautions. Follow all instructions and warnings completely. Do not remove or defeat any safety features. Make sure those who operate this machine are as well informed and careful in its use as you are.

See a Schiller Grounds Care, Inc. dealer for any service or parts needed. Schiller Grounds Care, Inc. service ensures that you continue to receive the best results possible from Schiller Grounds Care, Inc. products. You can trust Schiller Grounds Care, Inc. replacement parts because they are manufactured with the same high precision and quality as the original parts.

Schiller Grounds Care, Inc. designs and builds its equipment to serve many years in a safe and productive manner. For longest life, use this machine only as directed in the manual, keep it in good repair and follow safety warnings and instructions. You'll always be glad you did.

**Schiller Grounds Care, Inc.**  
**One Bob Cat Lane**  
**Johnson Creek, WI 53038-0469**

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## NOTICE !!!

Unauthorized modifications may present **extreme** safety hazards to operators and bystanders and could also result in product damage.

Schiller Grounds Care, Inc. strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Schiller Grounds Care, Inc. Engineering Department. Any Schiller Grounds Care, Inc. product that is altered, modified or changed in any manner not specifically authorized after original manufacture—including the addition of “after-market” accessories or component parts not specifically approved by Schiller Grounds Care, Inc.—will result in the Schiller Grounds Care, Inc. Warranty being voided.

Any and all liability for personal injury and/or property damage caused by any unauthorized modifications, add-on accessories or products not approved by Schiller Grounds Care, Inc. will be considered the responsibility of the individual(s) or company designing and/or making such changes. Schiller Grounds Care, Inc. will vigorously pursue full indemnification and costs from any party responsible for such unauthorized post-manufacture modifications and/or accessories should personal injury and/or property damage result.



This symbol means:  
**ATTENTION!**  
**BECOME ALERT!**

Your safety and the safety of others is involved.

## Signal word definitions:

The signal words below are used to identify levels of hazard seriousness. These words appear in this manual and on the safety labels attached to Schiller Grounds Care, Inc. machines. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbol shown above.

### **DANGER**

**DANGER** indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

### **WARNING**

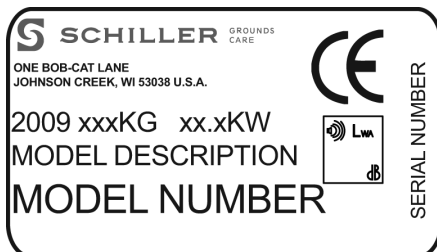
**WARNING** indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

### **CAUTION**

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

### **CAUTION**

**CAUTION** used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage.



**MODEL NUMBER:** This number appears on sales literature, technical manuals and price lists.

**SERIAL NUMBER:** This number appears only on your mower. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information.

**PREPARING FOR SAFE OPERATION****Operator preparation and training****Read the Operation & Safety Manual**

- If an operator or mechanic cannot read, it is the owner's responsibility to explain this material to them. If any portion of this material is unclear, contact your factory representative for clarification.
- Become familiar with the safe operation of the equipment, operator controls and safety signs. Be prepared to stop the engine quickly in an emergency. Do not operate or allow another person to operate this machine if there are any questions about safety.
- All operators and mechanics should be trained. The owner is responsible for training the users.
- Wear appropriate clothing, including long trousers, substantial shoes and safety goggles or safety glasses with side shields when operating dethatcher. Wear substantial footwear. Do not operate barefoot or wearing open sandals. Long hair, loose clothing or jewelry may get tangled in moving parts.
- Wear appropriate hearing protection.
- Never allow children, unskilled or improperly trained people to operate this equipment. Local regulations can restrict the age of the operator.
- Keep warning labels and this operator's manual legible and intact. Replacement labels and manuals are available from the factory.
- Do not operate machine while under the influence of drugs, alcohol or any other condition of impairment.
- The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property.

**SITE PREPARATION AND CIRCUMSTANCES**

- Evaluate the terrain to determine how to safely perform the job. Only use accessories and attachments approved by the manufacturer.
- Clear the area to be dethatched of objects such as rocks, toys, wire or other debris that may be picked up or thrown by the dethatcher.
- Be sure the area is clear of pets and people, especially young children. Never assume they will remain where you last saw them. Stop the machine if any enter the area.
- Operate only in daylight or in good artificial light.
- Do not operate on wet grass.

**⚠ DANGER**

All rotary blades are potentially dangerous. They can amputate hands and feet and throw objects. Failure to follow these safety and operating instructions could result in injury.

## MACHINE PREPARATION

- Check blade clutch operation. Adjust or have any problems repaired before using.
- Do not tamper with or defeat safety devices. Keep guards, shields and interlock safety devices in place and in proper working condition. They are for your protection.
- Keep all fasteners such as nuts, bolts and pins well secured.
- Visually inspect blades, blade bolts and the reel assembly for wear or damage. Replace worn or damaged blades and bolts in sets to preserve balance.
- Verify that machine and attachments, if any, are in good operating condition.
- Do not engage blades until ready to dethatch.

## OPERATING SAFELY

### In General

- Use extra care when loading or unloading the machine into a trailer or truck.
- Slow down and use caution when making turns and crossing roads and sidewalks. Stop blades when not dethatching.
- Do not run the engine in an enclosed area where dangerous carbon monoxide fumes can collect.
- Never leave a machine unattended. Always turn off blades and stop engine before leaving the operator position.
- Always be sure of your footing on slopes.
- Walk, never run.
- Exercise extreme caution when changing direction on slopes.
- Do not operate on excessively steep slopes.
- Work across slopes with walk behind machines.
- Use extreme caution when reversing or pulling the dethatcher towards you. Be sure the area behind is clear.
- Start the engine or switch on the motor carefully according to instructions and with feet well away from the blades.
- Never pick up or carry the machine while the engine is running.
- Do not start the cutting blades until you are ready to start dethatching.
- Obey safety instructions. Failure to do so may cause injury to yourself or others.

## STARTING

- Start only according to instructions in this manual or on the machine.
- Before attempting to start the engine, make sure the blade clutch is disengaged.
- When starting the engine, make sure hands and feet are clear of the blades.
- Do not tilt the machine when starting.
- Do not change engine governor settings or overspeed the engine. Operating the engine at excessive speed can increase the hazard of personal injury.

**MANUEVERING SAFELY****In General  
Operating on Slopes**

*USE EXTRA CARE WHEN WORKING ON SLOPES BEFORE OPERATING ON A SLOPE, EVALUATE THE RISKS INVOLVED.*

- With walk behind machines, operate across slopes, **not** up and down. With ride-on machines, operate up and down slopes, **not** across, except zero turn machines.
- Be alert to dips and rises which change the general slope. Watch for holes, rocks and roots in the terrain and other hidden hazards. Keep away from drop offs. Avoid ground conditions which will cause the machine to slide.
- If the operator is uncomfortable or unsure of the machines stability, operation on these slopes should cease immediately.
- The ultimate responsibility for safe operation on slopes, rests with the operator.
- Use lower speeds and exercise extreme caution on slopes and especially in sharp turns to prevent tipping and loss of control. Use extra caution when changing direction on slopes.

**INTERRUPTING OPERATION**

- Before leaving the operator's position:
  - Park on level ground.
  - Disengage the blades.
  - Shut off the engine.
- Disengage the blades and wait until the blades quit rotating:
  - when not dethatching;
  - for transport;
  - when crossing surfaces other than grass.
- Stop the engine, disengage the blades and wait until the blades quit rotating:
  - before refueling;
  - before making height adjustment .
- Stop the engine, disengage the blades, and disconnect the spark plug wire(s):
  - before clearing blockages or unclogging;
  - before checking, cleaning or working on the machine;
  - after striking a foreign object. Inspect the machine for damage and have repairs made before restarting;
  - if the machine begins to vibrate abnormally: shut off machine immediately. Inspect and have repairs made as needed before restarting;
  - except for repairs or adjustments as specifically noted, such as for carburetor adjustment, where the engine must be running. Keep hands and feet clear of moving parts in these circumstances.
- Allow the blades to come to a complete stop when stopping operation to clear blockages, unclog, inspect the machine, do maintenance or repair.
- Reduce the throttle setting during engine shut-down and, if the engine is provided with a shut-off valve, turn the fuel off at the conclusion of mowing.

## MAINTENANCE AND STORAGE SAFETY

### In general

- Maintain machine according to manufacturer's schedule and instructions for maximum safety and best results.
- Park machine on level ground.
- Never allow untrained personnel to service machine.
- Guards should only be removed by a qualified technician for maintenance or service. Replace guards when work is complete.
- Adjust or repair only after the engine has been stopped and the blades have quit rotating.
- Disconnect spark plug wire(s) before making any repairs.
- Replace parts if worn, damaged or faulty. For best results, always replace with parts recommended by the manufacturer.
- Do not dismantle the machine without releasing or restraining forces which may cause parts to move suddenly.
- Provide adequate support, e.g. jackstands for lifted machine or parts if working beneath.
- Do not put hands or feet near or under rotating parts.
- Clean up spilled oil or fuel thoroughly.
- Replace faulty mufflers.
- To reduce fire hazards, keep the engine, muffler, and fuel storage area free of grass, leaves, debris buildup or grease.
- Particular care must be taken when adjusting the carburetor while the engine is running. Keep hands and feet clear. Shut off PTO.
- When working underneath lifted parts or machines, make sure adequate support is provided.
- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- Replace worn or damaged parts for safety.
- Use only replacement parts supplied by original manufacturer.
- Stop the engine and allow to cool before storing
- Do not store the machine or fuel container near heating appliances with an open flame such as a water heater or an appliance with a pilot light.
- Keep petrol (gasoline) storage area free of grass, leaves and excessive grease to reduce fire hazard.

- Keep the machine and fuel containers in a locked storage place to prevent tampering and to keep children from playing with them.

### Blades

- Only replace blades. Never straighten or weld them.
- Keep other persons away from blades.

 **WARNING**



### Fuel

- Gasoline and diesel fuels are flammable; gasoline vapors are explosive. Use extra care when handling.
- Drain the fuel tank outdoors only.
- Store only in containers specifically designed for fuel.
- When refueling or checking fuel level:
  - Stop the engine and allow to cool;
  - Do not smoke;
  - Refuel outdoors only;
  - Use a funnel;
  - Do not overfill;
  - If fuel is spilled, do not attempt to start the engine until the spill is cleaned up and vapors have cleared.
- Replace caps on fuel containers and tanks securely.

 **WARNING**



Sparks from static electricity can start fires or cause explosions. Flowing fuel can generate static electricity. To prevent static electricity sparks:

- Keep fuel containers electrically grounded.
- Do not fill containers in a vehicle or on a truck or trailer bed with a plastic liner. Fill containers on the ground away from the vehicle.
- When practical, remove petrol (gasoline) powered equipment from the truck or trailer and refuel it on the ground. If equipment must be refueled on the truck or trailer, refuel from a portable container rather than a dispenser nozzle.
- Keep the dispenser nozzle in contact with the rim of the fuel tank or container opening until fueling is complete. Do not use a nozzle lock-open device.

### SET-UP INSTRUCTIONS



#### WARNING

**Banding is under tension and may snap back when cut. Wear eye protection and stay clear when cutting banding.**

1. Cut banding securing the machine to the pallet. Cut cable ties on the handle lock on the handles.
2. Lift the handle to the operating position. Secure in place by moving the handle locks down over the handle supports.

3. Roll the machine off the pallet onto a smooth, level surface.
4. Check the oil level in the engine, add if necessary.
5. Check the height of the tines. Adjust if necessary.
6. Fill the fuel tank with clean, fresh unleaded gasoline. E10 is acceptable. DO NOT use E15 or E85.

Refer to the engine manufacturer's operator manual. Read the operator manual before use.

### NOISE / VIBRATION REDUCTION ADJUSTMENT

Emitted noise and vibration transmitted to the operator may be reduced by operating at a slower engine speed.

Noise and vibration must be balanced against the performance of the machine in accomplishing the task.

Use of gloves will also reduce the vibration transmitted to the operator.

If appropriate, limit daily use to reduce operator noise and vibration exposure.

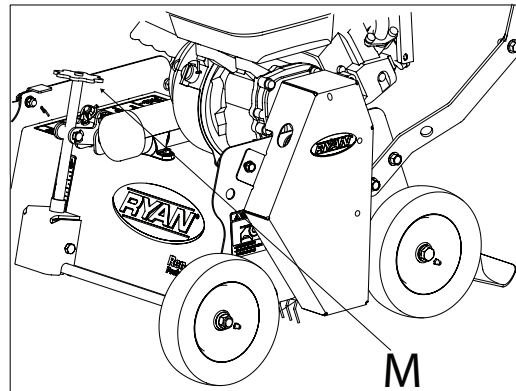
### BLADE HEIGHT ADJUSTMENT

To adjust blade height:

1. Lower the blades to the operating position by moving the lift lever forward.
2. Turn the adjusting knob to raise or lower the front wheels. Make the initial adjustment on a hard level surface.
3. Set **flail blades or spring tines** to 1/8" (3mm) above the surface initially. Test this setting on a small area, then, adjust to conditions as required. Each mark on the adjustment label equals 1/8" (3mm).

OR

Set **fixed** blades 1/8" above the surface for dethatching or verticutting, 1/8" (3mm) below the surface for seeding. Test the setting on a small area and adjust to conditions as required.



If the desired position cannot be obtained with the front wheels, the rear wheels may be remounted. The top set of holes lowers the blades, the bottom set raises the blades.

## **⚠ WARNING**

When replacement parts are required, use genuine **Schiller Grounds Care, Inc.** parts or parts with equivalent characteristics, including type, strength and material. Failure to do so may result in product malfunction and possible injury to the operator and/or bystanders.

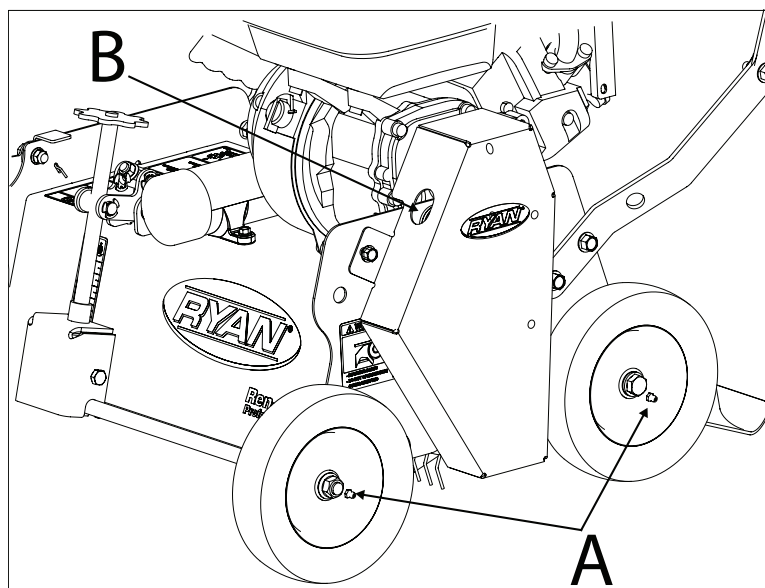
## **BELT REPLACEMENT**

Belt tension is maintained by a spring loaded idler, controlled by the clutch bail. No belt tension adjustment is necessary when proper belts are used.

1. Remove belt guard and old belt from unit.
2. Install the new belt and reinstall belt guard.

## **LUBRICATION**

- Change engine oil after the first 5 hours of operation, then per the engine manufacturers schedule. See engine manual for change interval and oil type.
- Check the air cleaner daily. Clean or replace accoring to the engine manufacturers instructions. See engine manual.
- The reel and idler pulley bearings are factory sealed and require no lubrication. Wheel bearings A and Pivot idler B have grease fittings and require lubrication with a standard lithium based grease every 25 hours of use.



## BLADE/SPRING REPLACEMENT

### Reel Remove/Replace

1. Remove belt cover and belt.
2. Remove the bolts from the bearing flangettes on each end of the reel shaft and drop the reel assembly out of the machine.
3. See instructions for each reel type.
2. Install the bearing on the other end of the reel assembly, again with the lock collar to the inside and with flangettes on each side of the bearing. Leave the lock collar loose.
3. Secure the bearing flangettes to the machine frame with carriage bolts. The bolt heads should be on the inside with the nuts on the outside.
4. Lock the bearing collar left loose in step 5 and tighten the set screw.
5. Install the belt and belt cover

### To install a reel assembly:

1. Install the bearing on the pulley end of the reel with the lock collar to the inside with flangettes on each side of the bearing. Rotate the lock collar to set it and secure it with the setscrew. Install the pulley up against the bearing.

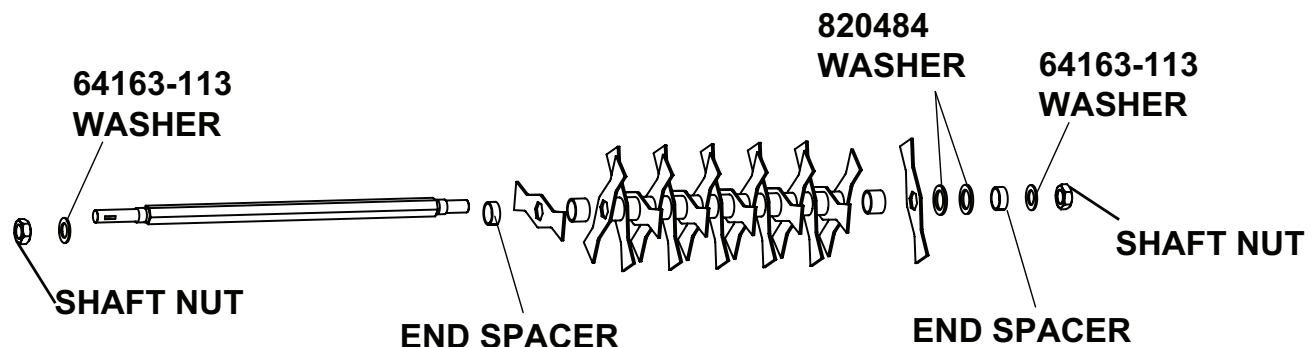
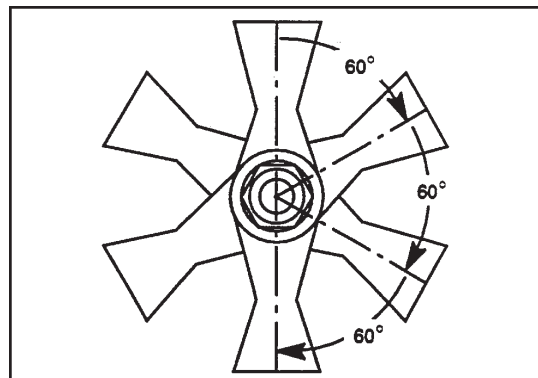
### Fixed Blade Reels

1. Remove reel assembly from machine.
2. Remove bearing from end opposite the pulley.
3. Hold the pulley hub to keep it from turning and remove the shaft nut. Remove the blades and spacers from the shaft and replace or rearrange as required. **Note:** blades worn on one face may be reversed to use the fresh edge.

**Note:** When reassembling the reel it is important to start and end with a spacer. DO NOT assemble with a blade next to the shaft nut at either end. Fixed blades must be placed on the shaft in a pattern 60° off center from the previous blade.

4. Re-install the shaft nut and tighten securely to keep the blades from coming loose.

5. Re-install the reel bearing and flangettes on the shaft with the lock collar to the inside. Leave the lock collar loose.
6. Replace the reel assembly in the machine. See Reel Remove/Replace



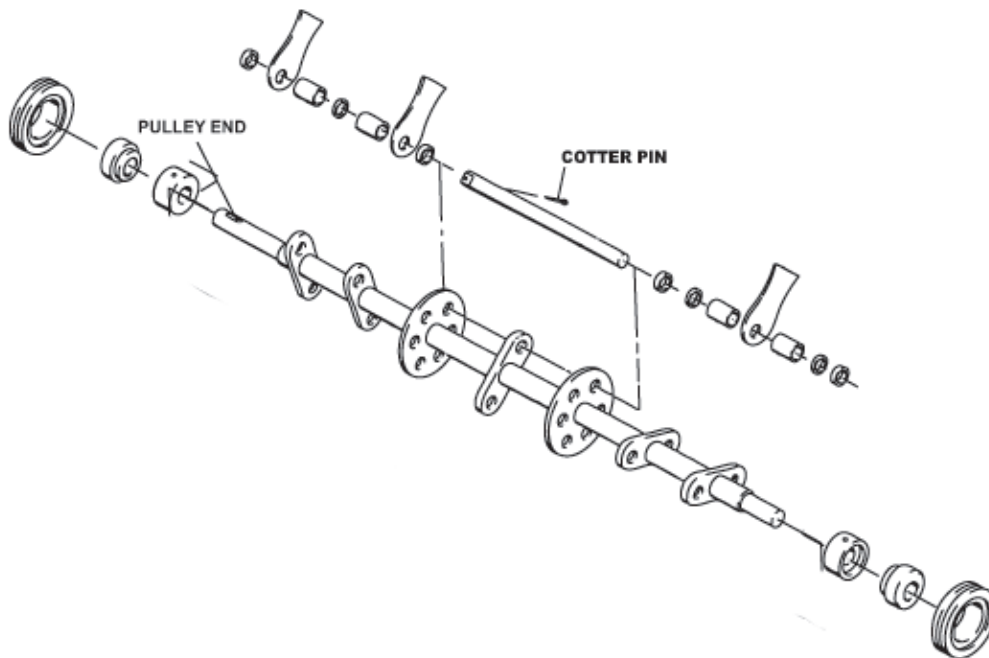
### FLAIL BLADE REELS

**NOTE:** Work on only one of the six blade shaft assemblies at a time.

1. Remove reel assembly from machine.
2. Remove the cotter pin from one of the blade shafts and pull the shaft out.
3. Replace the blades and any other worn parts. Reassemble in the proper order while sliding the shaft back into place. Secure the shaft with a new cotter pin.

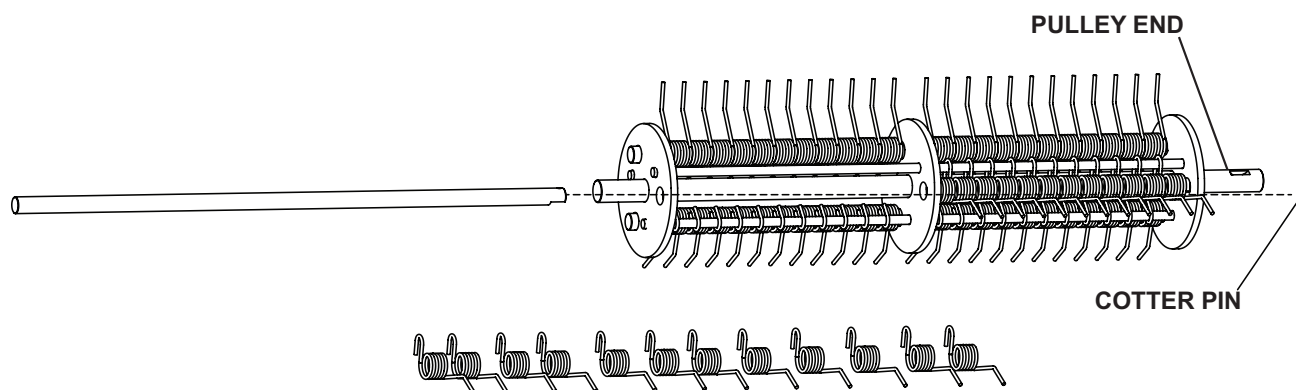
**NOTE:** blades worn on one face may be reversed to use the fresh edge.

4. Repeat for the remaining shafts.
5. Replace blades in sets to maintain balance.
6. Replace the reel assembly in the machine. See Reel Remove/Replace



### SPRING TINE REELS

1. Remove reel assembly from machine.
2. Remove the cotter pin from one of the spring tine shafts. Pull the shaft out. Replace the shaft if worn.
3. Install spring tines as the shaft is slid back into place. Secure with a new cotter pin.
4. Repeat for the remaining shafts.
5. Replace spring tines in sets to maintain balance.
6. Replace the reel assembly in the machine. See Reel Remove/Replace



## SEEDER ACCESSORY (970963)

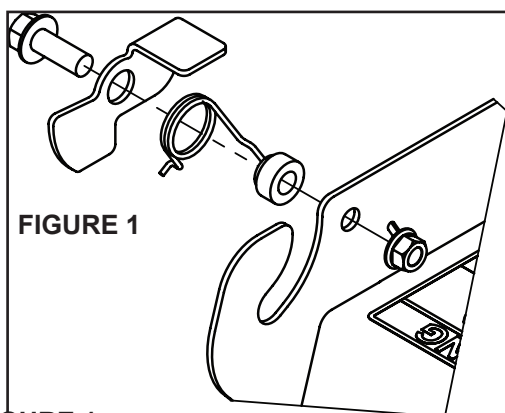
INSTALLATION: (Use Figure 7 for reference)

1. Install the latch assembly to the right front of the machine. Figure 1.
2. Replace the handle rest brackets with brackets from the seeder kit. The brackets from the kit do not allow the handle to fold into the seed box.
3. Place the left pin of the seed box into the hole on the left side of the machine frame.
4. With the seed control cable inside the machine frame, drop the right side pin through the latch to secure the seed box to the machine.
5. Attach the seed control lever to the machine handle as shown. Secure with 2 knobs.

## OPERATION:

It is suggested the Renothin seeder accessory be used with a fixed blade reel set to cut about 1/8" (3mm) below the ground surface. Depending on conditions, satisfactory results may be accomplished with flail or spring tine reels. These reels should not be set below the ground surface.

Take the machine to the site to be seeded. Fill the seed box with grass seed. Set the stop on the Seed gate control lever to the appropriate location and move the control lever up against the stop. Start the engine and move the machine over the area to be seeded with the seed gate control open. Close the seed gate control any time you do not want seed being dropped.



## SEEDING RATES:

Use the seed chart on page 14 to give a starting point for seed gate control settings. Due to the variable nature of seed\* this chart should be used only for an initial starting point. To get an accurate seed rate, seed a known area. Check to see how much seed was consumed and adjust accordingly.

\* Grass seed is a product of nature. As such the test weight and size and shape the seeds vary due to growing conditions and seed variety. Grass seed is often sold as a blend of different varieties further affecting its flow qualities. Travel speed also affects seed flow rate. For these reasons it is impossible to make an accurate seed rate chart. It is important to check seed usage and adjust accordingly to get the seeding rate desired.

## REMOVAL:

To remove the seeder accessory from the Renothin base unit:

1. Remove the control lever from the handle. Run the knobs back on for safe keeping.
2. Place the handle in the seed box.
3. Open the latch and lift the seed box off of the machine.
4. Store in a safe place until it is required again.

**STORAGE INSTRUCTIONS****⚠ WARNING**

To prevent possible explosion or ignition of vaporized fuel, do not store equipment with fuel in tank or carburetor in enclosure with open flame (for example, a furnace or water heater pilot light).

**After daily usage of unit.**

1. Wash the unit with water after the engine has cooled down.
2. Check the reel blades for damage. Replace any cracked, broken, bent or worn blades.
3. Check the engine oil level and inspect the air cleaner for excessive dirt or any obstructions.
4. Service engine according to engine manufacturer's recommendations. Refer to engine manual for all recommendations.

**EXTENDED STORAGE****Before the equipment is put into storage for any period exceeding 30 days:**

1. Drain all fuel from fuel tank and lines (use a hose or fuel line, routed from fuel tank shut-off to proper container).
2. Start engine and run until all fuel is used from the carburetor float bowl.
3. While engine is warm, drain the crankcase oil and refill with the proper weight of oil corresponding to the season when the equipment will next be used.
4. Remove the spark plug and squirt a small quantity of engine oil into the cylinder. Turn the engine over a few times to distribute the oil.
5. Lubricate all lubrication fittings.
6. Clean and oil cutting blades to prevent rust.

**To put equipment into operation after an extended storage:**

1. Fill fuel tank with clean fresh fuel.
2. Check crankcase oil level, and start engine.
3. Check fuel system for fuel leaks.
4. Check for loose parts and tighten.
5. Check for cracked or broken blades and replace.

# SPECIFICATIONS

## REN-O-THIN

### SPECIFICATIONS

**Chassis:**..... 12 gauge steel, formed and welded  
**Reduction:** ..... 1.33:1 (engine to reel)  
**Wheelbase:**..... 14 5/8" (371 mm) at level position  
**Reel Speed:**..... 1700 RPM  
**Cutting Width:**..... 18" (457mm)  
**Cutting Depth:**..... 7/8" (22mm)  
**Blade Adjustment:**..... 1" (25mm) above ground level to 7/8" (22mm) below ground level  
**Weight (less reel):**..... 106 lbs. (48 Kg.)  
**Weight (with reel):**..... approx. 140 lbs. (64 Kg.)

### Engines:

**Models: 754874:**.....Briggs & Stratton 12H332  
 Type 0159, Trim B8  
 4 cycle 6.5 H.P.  
 aluminum cylinder with cast iron sleeve

**Models 754875:** .....Honda GX160  
 4 cycle 5.5 H. P. Honda  
 9.9 cu. in. (163 cc).

**Starter**.....Recoil, on/off switch  
**Governor**.....3600 RPM, no load

## SEED APPLICATION CHART

THESE SETTINGS ARE APPROXIMATE GUIDELINES. SEEDING RATES ARE SPEED DEPENDANT. FASTER SPEED DELIVERS LESS SEED.

SEED TYPE	RATE gms./		SETTING	SEED TYPE	RATE gms./		SETTING
	Sq. M.				Sq. M.		
BENT GRASS	2.4		20	FESCUE (TALL )	17.4		23
	4.9		23		24.3		25
	7.3		24		29.7		27
					38.3		30
BERMUDA	9.8		17	RYEGRASS	6.8		16
	13.4		19		10.7		18
BLUEGRASS	10.4		15		13.9		20
	21.0		18		22.5		22
FESCUE (CREEPING)	13.9		22		24.4		25
	17.1		25		64.2		27
	24.3		27		48.9		30
	29.6		28				
	34.2		30				

### LAWN PREPARATION:

MOW LAWN TO 2.54 TO 5.08 CM  
 HEIGHT. DO NOT WATER PRIOR TO  
 SEEDING. POWER RAKE TO  
 DETHATCH LAWN AND REMOVE  
 THATCH IN EXCESS OF 1/2 INCH.  
 AERATE LAWN WITH CORE TYPE  
 AERATOR. FERTILIZE LAWN WITH  
 BROADCAST SPREADER.

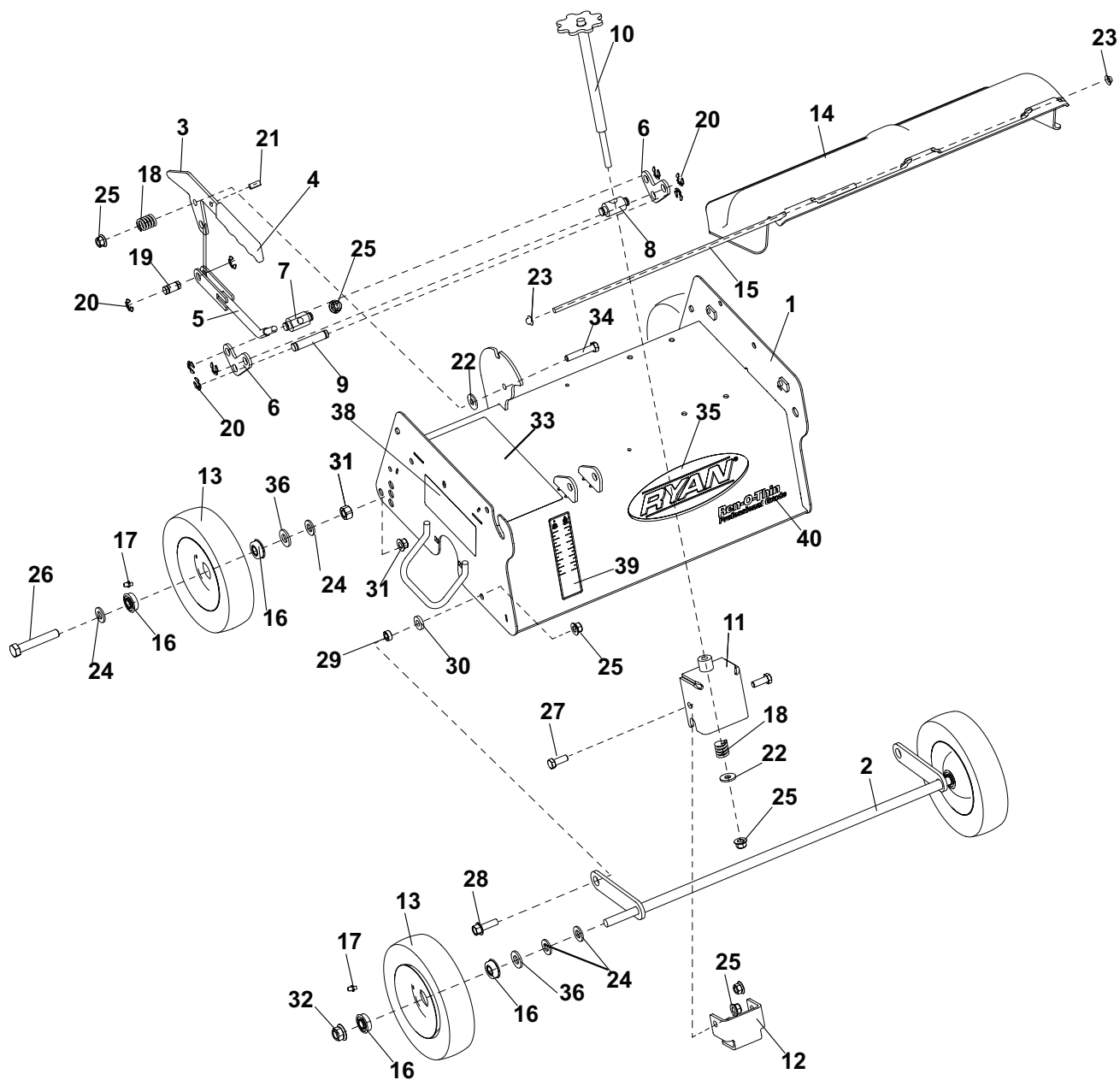
### SEEDING

#### RECOMMENDATIONS:

FOR BEST RESULTS, OVERSEED IN  
 TWO PASSES OF 1/2 APPLICATION  
 RATE AT RIGHT ANGLES IN A  
 CRISSCROSS PATTERN. WATER  
 HEAVILY IMMEDIATELY THEN  
 LIGHTLY FOR 10 TO 14 DAYS  
 KEEPING SOIL MOIST. AFTER  
 GERMINATION, WATER LESS OFTEN  
 TO PROMOTE ROOT GROWTH.

# PARTS SECTION

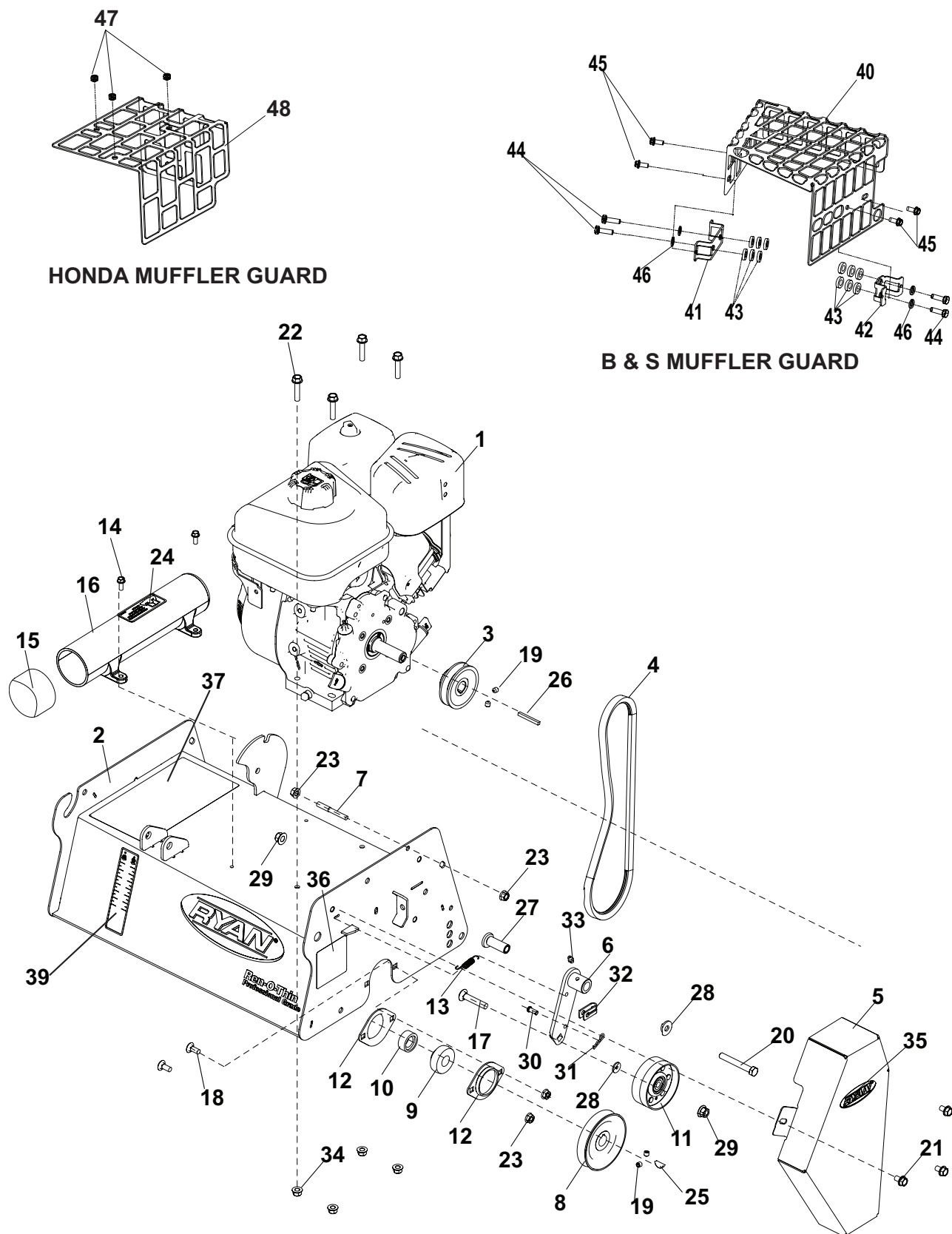
FIGURE 1



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4173842	S-ENGINE DECK (INCLUDES ITEMS 33 & 37-39)	1				
2	4170043	WLDMT-AXLE	1				
3	4170503.7	HANDLE-LIFT	1				
4	38404-03	GRIP-CONTROL LEVER	1				
5	4170034	WLDMT-CLEVIS	1				
6	4169668	PLATE-LIFT	2				
7	4170027	TRUNNION-.500	1				
8	4170028	TRUNNION-5/8-11	1				
9	4170079-02	SHAFT-2 GROOVE 2.50 LG	1				
10	4170044	WLDMT-ADJ SCREW	1				
11	4170045.7	WLDMT-LIFT HOUSING	1				
12	4169673.7	HOUSING-INNER LIFT	1				
13	4124193	WHEEL AY 8 X 1.75 INCLUDES ITEM 16	4				
14	4169080	SHIELD, TRAILING	1				
15	4169617	ROD-TRAILING SHIELD	1				
16	520983	BEARING-1/2X1-1/8 WHEEL	8				
17	85010N	ZERK 1/4-28 STR SELF TAP	4				
18	35011A	SPRING CONTROL DETENT	2				
19	4170079-01	SHAFT-2 GROOVE 1.063 LG	1				
20	64144-34	SNAP RING.50	8				
21	64061-19	ROLL PIN-5/16X3/4	1				
22	64163-31	WSHR 25/64X1X12	2				
23	64175-02	PUSHNUT 5/16 ROD	2				
24	64163-67	WSHR-.516X1X12GA	8				
25	64268-03	NUT-FL NYLON LOCK 3/8-16	7				
26	64123-31	BLT-HEX 1/2-13X3	2				
27	64123-50	BLT-HEX 3/8-16X1	2				
28	64262-012	BLT-FLG HD 3/8-16 X 1-1/4	2				
29	515729	BUSHING	2				
30	64163-46	WSHR.383/.393X.88X7GA	2				
31	64025-19	NUT-1/2-13 HEX	4				
32	64268-05	NUT-FL NYLON LOCK 1/2-13	2				
33	4173827	LABEL-MAIN	1				
34	64123-67	BLT-HEX 3/8-16X2	1				
35	4168826	LABEL-RYAN OVAL 9"	1				
36	524229	WASHER FELT	4				
37*	4163591	LABEL-BELTS/SERV EU	1				
38	4173828	LABEL-BLADES, THROWN	1				
39	4163713	LABEL-RENOTHIN HOC	1				
40	4124338	LABEL-FRONT REN-O-THIN	1				
41*	4161125	LABEL-RYAN OVAL, SMALL	1				

\*NOT ILLUSTRATED

FIGURE 2



## FIGURE 2

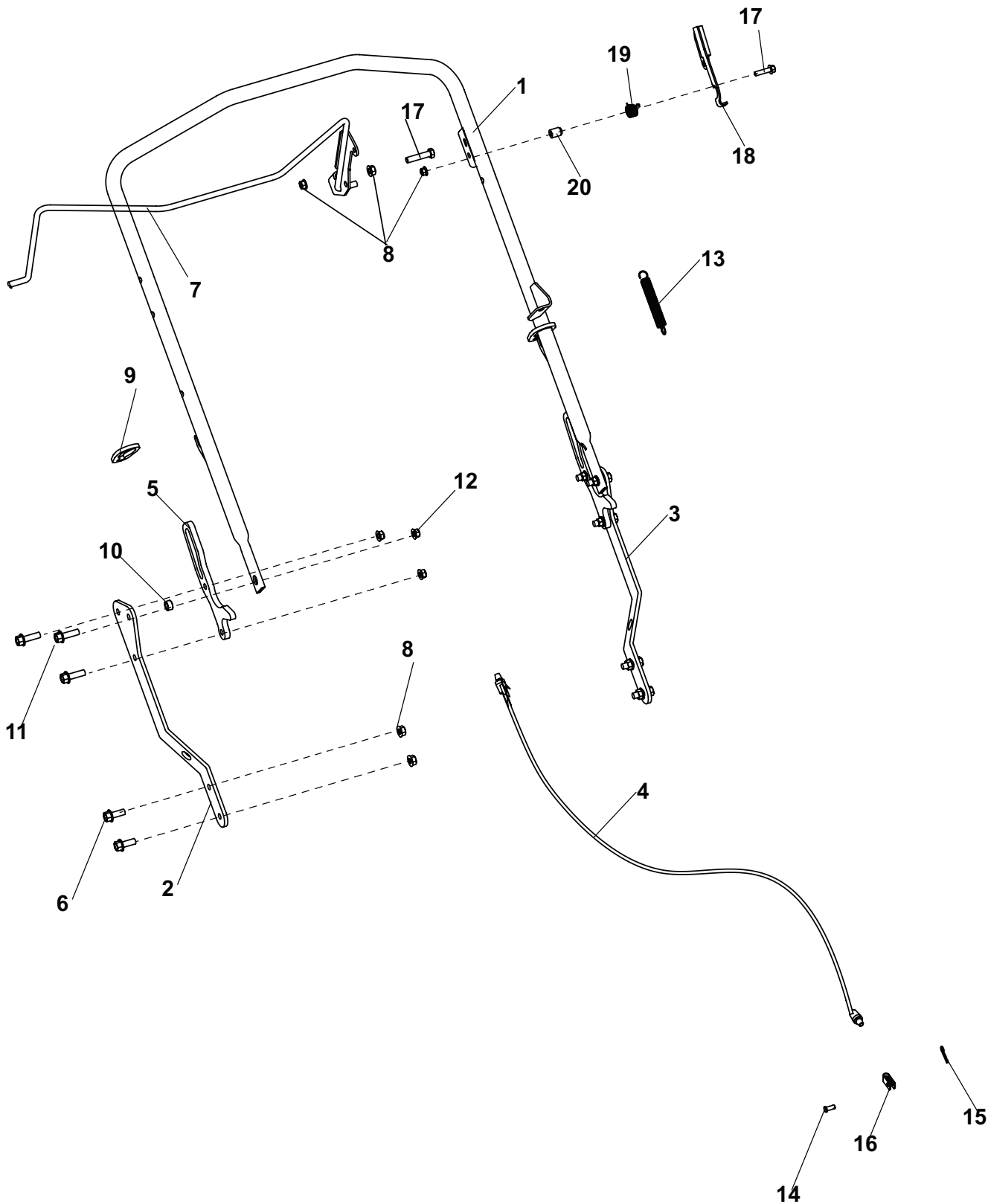
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4166692	ENGINE-B&S 6.5HP	1	39	4163713	LABEL-RENOTHIN HOC	1
	540354	ENGINE-HONDA GX160		<b>ITEMS 40-46 USED ON B&amp;S ENGINES ONLY</b>			
2	4173842	S-ENGINE DECK	1	40	4164186.7	GUARD, MUFFLER (B&S)	1
	(INCLUDES ITEMS 36-39)			41	4160485.7	BRKT-HORIZONTAL	1
3	4169608	PULLEY-ENGINE	1	42	4160484.7	BRKT-VERTICAL	1
4	4169631	BELT-REEL DRIVE	1	43	64163-02	WSHR .328X.608X11	12
5	4169684.2	COVER-BELT	1	44	64205-038	BLT-METRIC M6-1.00X20	4
6	4170042.7	WLDMT-IDLER	1	45	64152-56	SCREW-HS STAP #12X1/2	4
7	4171047	GUIDE-BELT	1	46	64006-01	LOCKWSHR-1/4 HELICAL	4
8	517137	PULLEY-4 INCH"A"	1	<b>ITEMS 47-48 USED ON HONDA ENGINES ONLY</b>			
9	521856	BEARING BALL	2	47	64207-08	NUT-HEX M5-.8 EDGE LOCK	3
10	521857	COLLAR BRG LOCKING	2	48	4164270.7	GUARD-MUFFLER (HONDA)	1
11	2228016	PULLEY-IDLER PUMP	1	<b>*NOT ILLUSTRATED</b>			
12	548962	FLANGETTE-2 BLT 3/4 BRG	4				
13	548995	SPRING EXTENSION	1				
14	64197-025	BLT-TDFM 1/4-20X5/8	2				
15	38061A	CAP-BLACK VINYL	1				
16	4129802	TUBE-DOCUMENT	1				
	(INCLUDES ITEMS 15 & 24)						
17	64018-5	BLT-CRG 3/8-16X1-3/4	1				
18	64018-9	BLT-CRG 5/16-18X3/4 G5	4				
19	64044-18	SCREW-SET 5/16-18 x 5/16	4				
20	64123-88	BLT-HEX 3/8-16X2-3/4	1				
21	64139-13	BLT-WLF 5/16-18X1/2	3				
22	64262-009	BLT-FLG HD 5/16-18 X 1-1/2	4				
23	64141-6	NUT-WLF 5/16-18	6				
24	2000655	LABEL-OPER MAN	1				
25	64164-19	KEY 3/16X3/4 #9 WDRUFF	1				
26	64164-39	KEY 3/16 X 1-3/4 SQ	1				
27	4172285	BUSHING-PIVOT	1				
28	64163-31	WSHR 25/64X1X12	2				
29	64268-03	NUT-FL NYLON LOCK 3/8-16	2				
30	64188-65	PIN CLEVIS 1/4X.62	1				
31	64168-2	COTTER-HAIRPIN.08X1.19	1				
32	4166457	CLEVIS-CABLE	1				
33	85010N	ZERK 1/4-28 STR SELF TAP	1				
34	64268-02	NUT-FL NYLON LCK 5/16-18	4				
35	4161125	LABEL-RYAN OVAL, SMALL	2				
36	4163591	LABEL-BELTS/SERV EU	1				
37	4173827	LABEL-MAIN	1				
38*	4173828	LABEL-BLADES, THROWN	1				

HANDLE GROUP



FIGURE 3

REN-O-THIN



# REN-O-THIN

## HANDLE GROUP

FIGURE 3

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4173835.7	HANDLE-RENOTHIN	1				
2	4169665.7	BRKT-HANDLE LH	1				
3	4169666.7	BRKT-HANDLE RH	1				
4	4169638	CABLE-CONTROL	1				
5	4169676	BRKT-HANDLE REST	2				
6	64262-011	BLT-FLG HD 3/8-16 X 1	4				
7	4173836.7	BAIL-CONTROL	1				
8	64141-4	NUT-WLF 3/8-16	7				
9	4168156	LOCK-HANDLE	2				
10	4168728	SPACER-PIVOT	2				
11	64262-012	BLT-FLG HD 3/8-16 X 1-1/4	6				
12	64268-03	NUT-FL NYLN LCK 3/8-16	6				
13	2702144	SPRING-EXTENSION	1				
14	64188-65	PIN-CLEVIS, 1/4 X .62	1				
15	64168-2	COTTER-HAIRPIN .08X1.19	1				
16	4166457	CLEVIS-CABLE	1				
17	64262-018	BLT-FLANGE 3/8-16X1-3/4	2				
18	4173604.7	LEVER-LATCH	1				
19	4173601	SPRING - TORSION	1				
20	4173602	BUSHING-SPACER	1				
21	64123-87	BLT-HEX 3/8-16 X 1-3/4	1				

\* NOT ILLUSTRATED



FIGURE 4

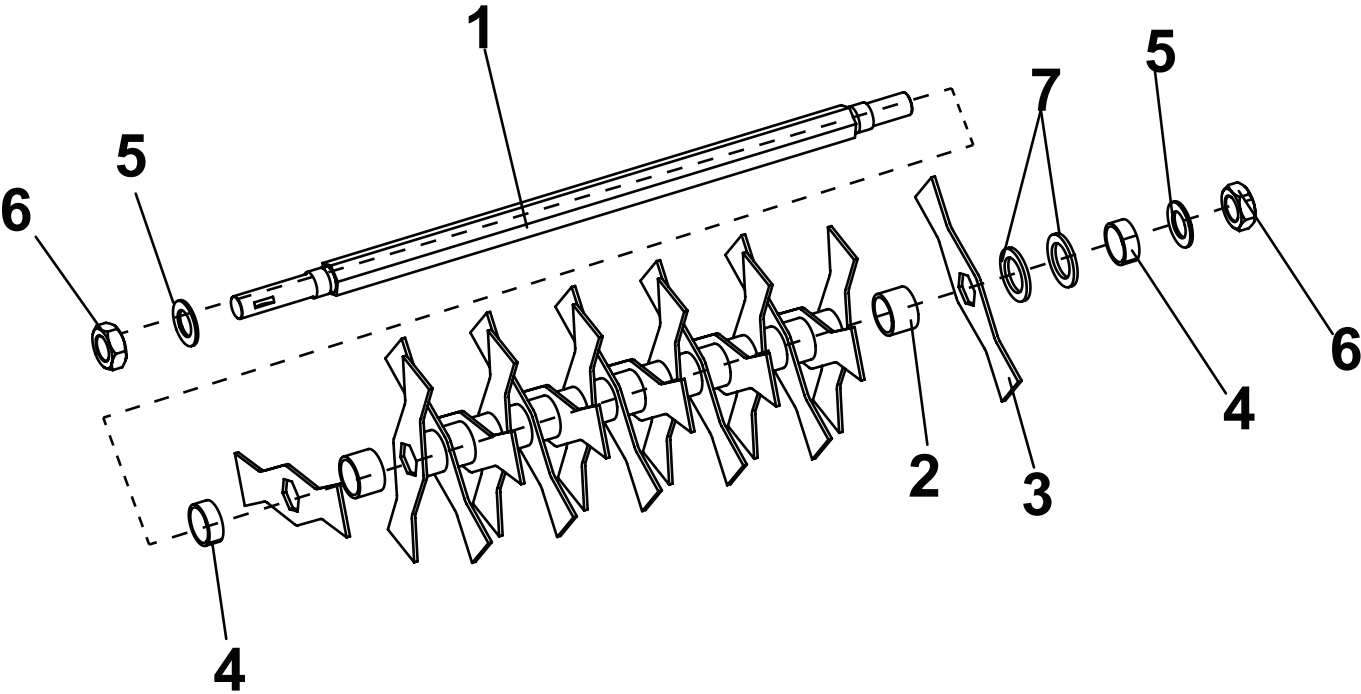


FIGURE 4

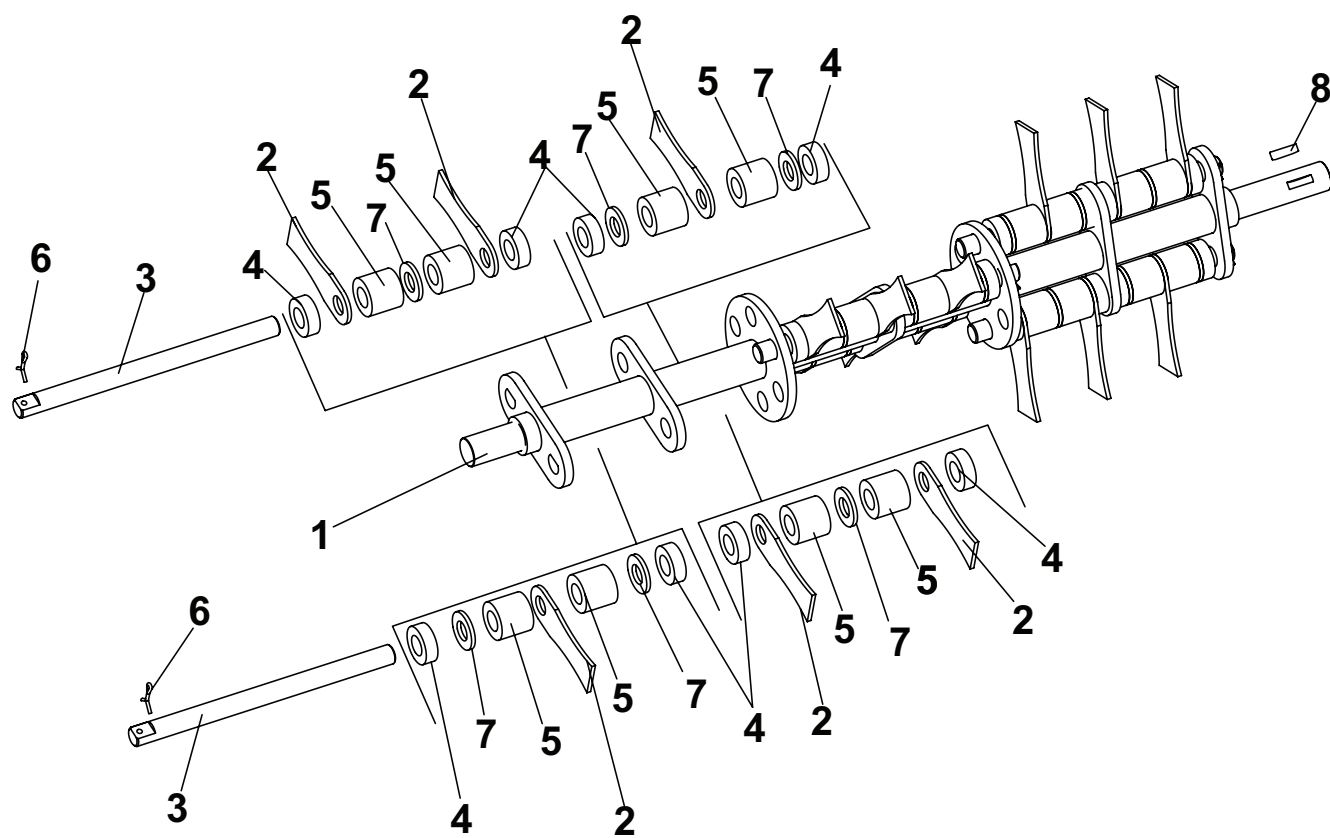
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4169622	SHAFT-FIXED BLADE REEL	1				
2	516905	SPACER .900 (23mm)	17				
3	516898	BLADE, 1/8" (3.2mm)	18				
4	516903	SPACER .500	2				
5	64163-113	WSHR-.890X1.50X.090	2				
6	64001-15	NUT-HEX JAM 7/8-14	2				
7	820484	WASHER FLAT 1.17x1.75x.134	2				

\* NOT ILLUSTRATED

# FLAIL BLADE REEL (OPTIONAL KIT 970962)

REN-O-THIN

FIGURE 5



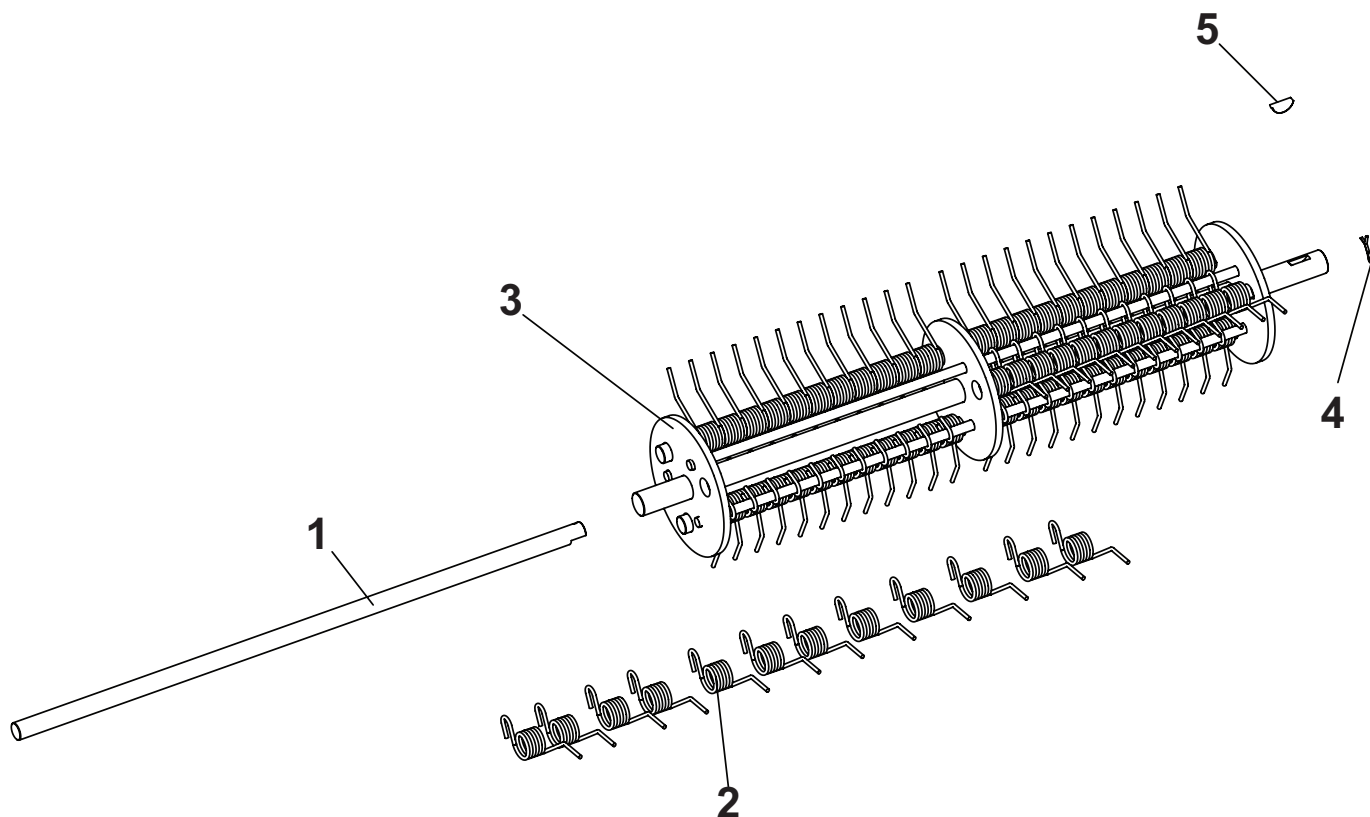
# REN-O-THIN (OPTIONAL KIT 970962) FLAIL BLADE REEL

FIGURE 5

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4170067.7	WLDMT-FLAIL SHAFT	1				
2	516897	BLADE FLAIL	18				
3	517155	SHAFT	6				
4	517162	SPACER .328 (8mm)	24				
5	517163	SPACER .891 (23mm)	24				
6	64140-1	COTTER PIN-1/8X1	6				
7	64163-67	WSHR-.516X1X12GA	18				
8	64164-19	KEY-3/16X3/4 #9 WDRUFF	1				

\* NOT ILLUSTRATED

**FIGURE 6**



# REN-O-THIN **(OPTIONAL KIT 970964) SPRING TINE REEL**

**FIGURE 6**

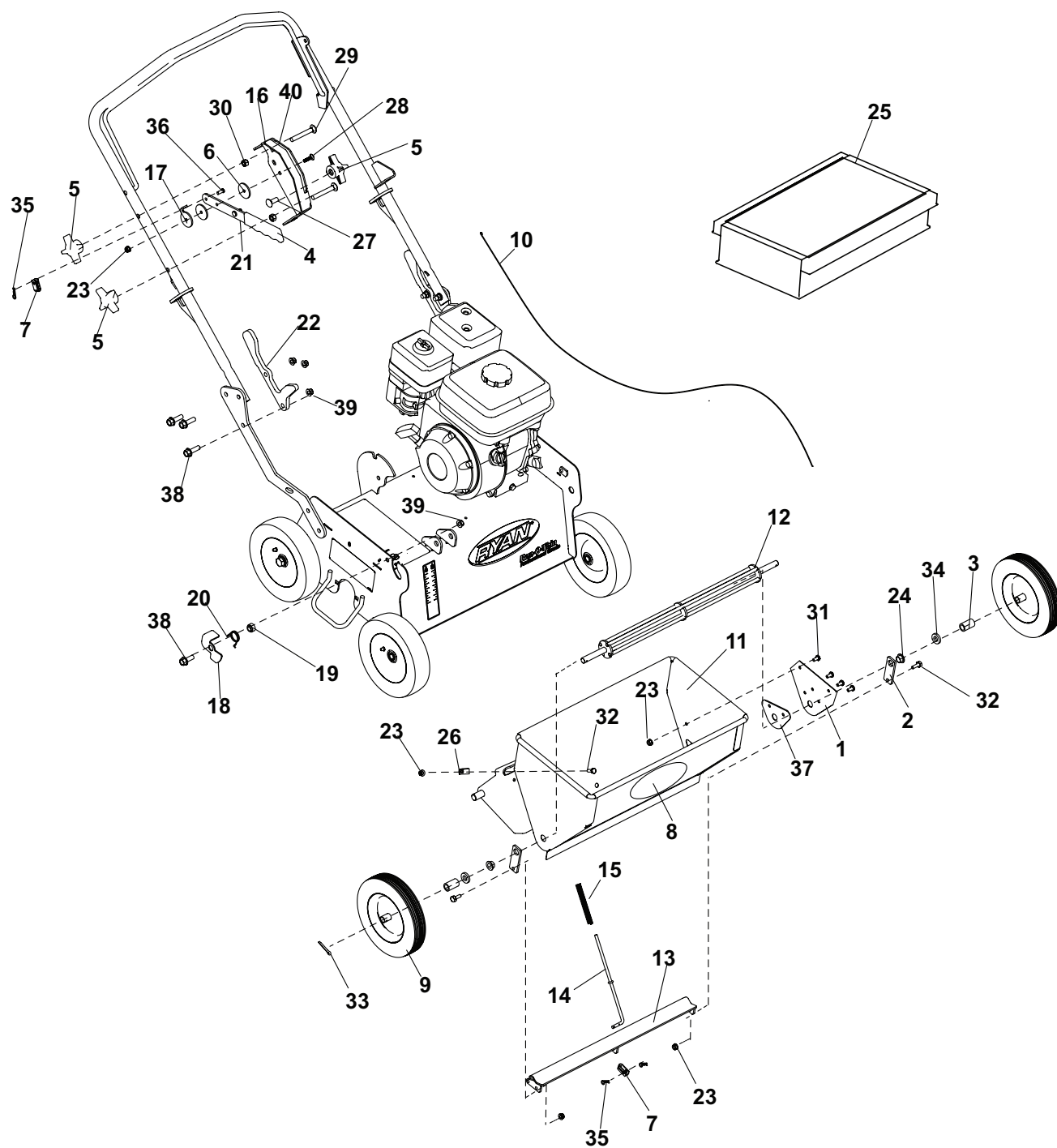
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4169624	ROD-SPRING MOUNTING	3				
2	4169626	TINE-SPRING	72				
3	4170068.7	WLDMT-SHAFT SPRING TINE	1				
4	64140-1	COTTER PIN-1/8X1	3				
5	64164-19	KEY-3/16X3/4 #9 WDRUFF	1				

**\* NOT ILLUSTRATED**

# SEED BOX ASSEMBLY (OPTIONAL 970963)

REN-O-THIN

FIGURE 7



# SEED BOX ASSEMBLY (OPTIONAL 970963)

## REN-O-THIN

FIGURE 7

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4170999.2	PLATE-MAIN BODY CLOSE	1				
2	4171000.7	SEED GATE FLAT	2				
3	2183063-01	SPACER 32MM LONG	2				
4	38404-03	GRIP-CONTROL LEVER	1				
5	38524	KNOB-4 PRONG 3/8-16	3				
6	4165854	WASHER-UHMW PE	2				
7	4166457	CLEVIS-CABLE	2				
8	4168826	LABEL-RYAN OVAL 9"	1				
9	4169922	WHEEL-DRIVE	2				
10	4169974	CABLE-SEED BOX	1				
11	4169983.2	HOPPER-SEED	1				
12	4169990	WLD MNT-AGITATOR	1				
13	4169993.7	GATE-SEED FLOW	1				
14	4169998	ROD-SPRING	1				
15	4169999	SPRING-COMP .362X.48X 5	1				
16	4170001.7	PLATE-FLOW CONTROL	1				
17	4170002.7	WSHR-.260 X 1.50 FIXED	1				
18	4170004.7	LATCH-STOP	1				
19	4170005	BUSHING-STOP LATCH	1				
20	4170006	SPRING-STOP LATCH	1				
21	4170008.7	HANDLE-SEED CONTROL	1				
22	4170684	BRKT-HANDLE REST	2				
23	64268-01	NUT-FL NYLON LCK 1/4-20	9				
24	C100052	BEARING, CONTROL	2				
25	C100078	COVER-VINYL SEED BOX	1				
26	48228A	CLIP-CABLE, INSULATED	1				
27	64018-23	BLT-CRG 3/8-16X3/4 SHN	1				
28	64018-42	BLT-CRG 1/4-20 X1	1				
29	64018-47	BLT-CRG 3/8-16X2-3/4	2				
30	64025-05	NUT-3/8-16 HEX	2				
31	64123-49	BLT-HEX 1/4-20X1/2	5				
32	64123-89	BLT-HEX 1/4-20X3/4	3				
33	64140-8	COTTER PIN-1/4-2	2				
34	64163-36	WSHR 1X33/64X.187	2				
35	64168-2	COTTER-HAIRPIN .08 X 1.19	3				
36	64188-65	PIN-CLEVIS, 1/4 X .62	1				
37	4171908.2	CLOSURE-INNER	1				
38	64262-011	BLT-FLG HD 3/8-16 X 1	1				
39	64268-03	NUT-FL NY LCK 3/8-16	7				
40	4171830	LABEL-SEED CONTROL	1				

**SCHILLER GROUNDS CARE, INC.**  
**ONE BOB-CAT LANE**  
**P.O. BOX 469**  
**JOHNSON CREEK, WI 53038**  
**920-699-2000**  
**[www.schillergc.com](http://www.schillergc.com)**



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