



## PUSH-TYPE SCARIFIER- POWER RAKE

744865E

REN-O-THIN BRIGGS & STRATTON

744877A

REN-O-THIN HONDA



**SCHILLER** GROUNDS CARE

MAN 4166236-GB

Rev. A 12-2010

Original Language Instructions

# OPERATOR'S 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 Operators and Parts Manuals 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 Ground 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 Ryan dealer for any service or parts needed. Ryan service ensures that you continue to receive the best results possible from Schiller Grounds Care, Inc. products. You can trust Ryan 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 Commercial 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** indicates a hazardous situation which, if not avoided, **WILL** result in death or serious injury.



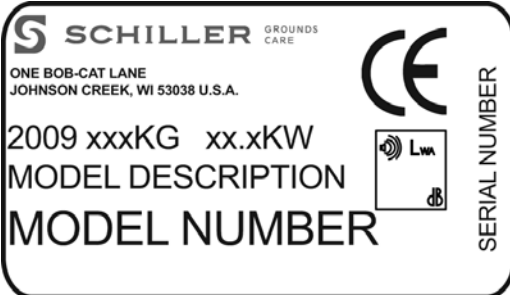
**WARNING** indicates a hazardous situation which, if not avoided, **COULD** result in death or serious injury.



**CAUTION** used with the safety alert symbol, indicates a hazardous situation which, if not avoided, **COULD** result in minor or moderate injury.



**CAUTION** used without the safety alert symbol is used to address practices no related to personal injury.



**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.

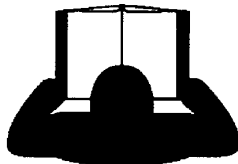
# REN-O-THIN

## 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.

### WARNING



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

- Petrol (gasoline) and diesel fuels are flammable; petro (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.



REN-O-THIN

-Read and understand operator manual.  
-Replace if lost or damaged.

Release Bail to Disengage Blade.

-Thrown Object Hazard  
-Keep bystanders away.

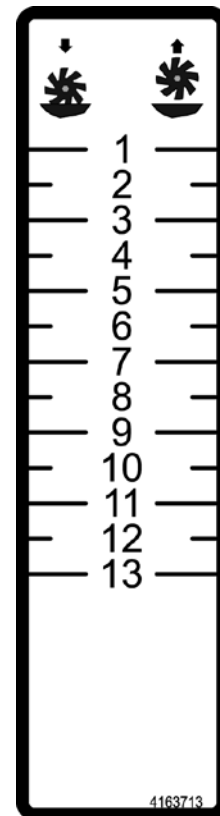
Attention!  
Wear hearing protection and safety glasses.

Move Bail towards handle to engage blades.

Blades Cut  
-Amputation Hazard  
-Keep hands and feet clear.  
-Remove spark plug wire before cleaning or servicing.

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ROTATING PARTS:  
 -Cut/Crush/Entanglement Hazard  
 -Keep hands away from moving parts  
 -Do not operate if belt cover is removed.  
 -Remove spark plug before servicing.



Blade Height

## FUEL SHUT OFF(A)

Move to the "OFF" position to shut off the fuel whenever transporting the machine by trailer or storing it. Move to the "ON" position before starting the engine.

## SWITCH (B)

Move to the "OFF" position to stop the engine. Move to the "ON" position before starting the engine.

## CHOKE (C)

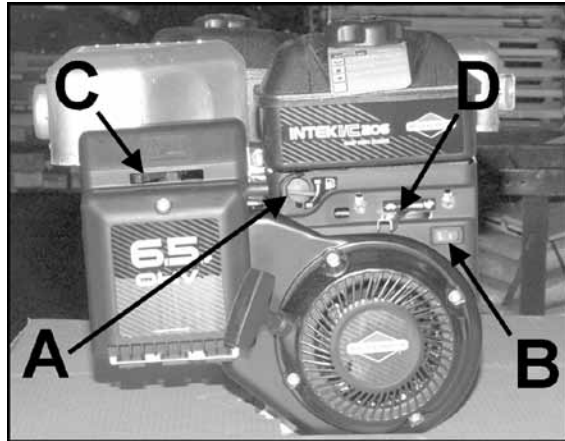
Move to the choke position to apply the choke. Move to the run position to remove the choke.

## THROTTLE (D)

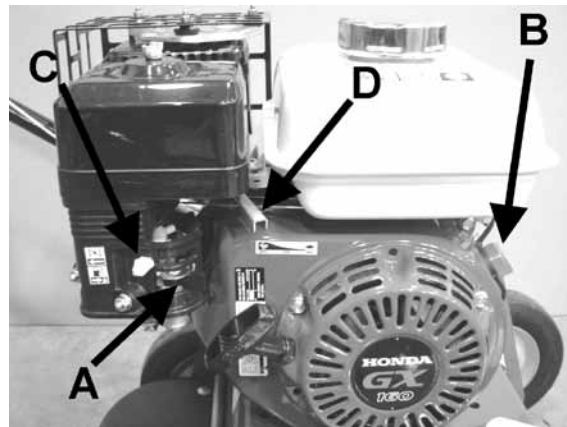
Controls the engine speed.

## BLADE CLUTCH CONTROL (E)

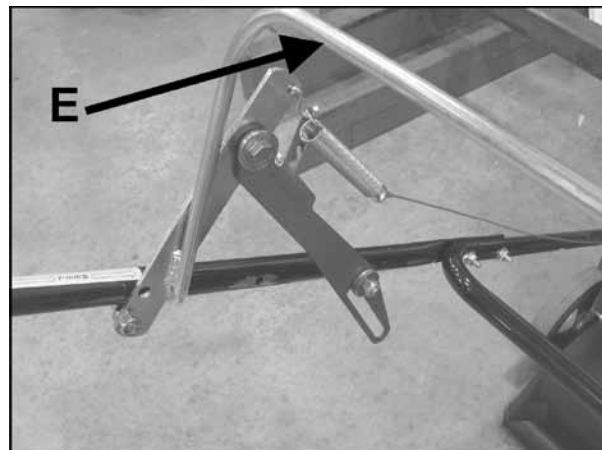
Move the bail towards the handle to engage the blades, let it go to disengage.



Briggs & Stratton



Honda

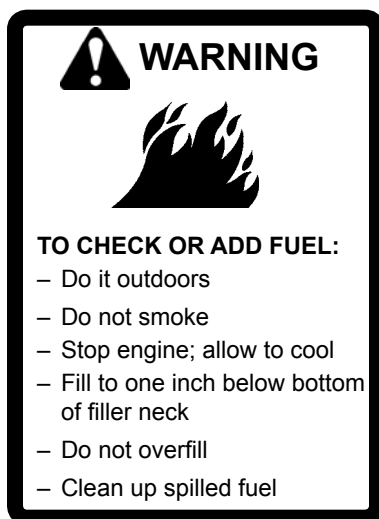


**PRE-OPERATION CHECK LIST  
(OPERATOR'S RESPONSIBILITY)**

- Review and follow all safety rules and safety decal instructions.
- Check that all safety decals are installed and in good condition. Replace if damaged.
- Check to make sure all shields and guards are properly installed and in good condition. Be sure the discharge shield is installed.
- Check that all hardware is properly installed and secured.
- Check to be sure engine is free of dirt and debris. Pay particular attention to the cooling fins, governor parts and muffler. Clean air intake screen. Check air cleaner; service is necessary.
- Visually check for loose or damaged parts and fasteners. Repair or replace as needed before unit is placed into operation.
- Check the reel for bent or broken blades; replace as necessary.
- Inspect area and remove stones, branches or other hard objects that might be thrown, causing injury or damage.
- Clean area around oil fill dipstick. Remove dipstick and check to be sure oil is in operating range (between marks on dipstick). Add oil if necessary but **DO NOT OVERFILL**. Install dipstick assembly firmly until cap bottoms out on tube. Dipstick assembly must always be secured into fill tube when engine is running.
- Check all lubrication points and grease as instructed in manual.
- Perform a functional check of the Blade Clutch system each time you operate the unit.

**FUELING**

- Fill fuel tank with good quality, clean, unleaded regular petrol (gasoline). Do not use hi-test fuel.
- Use a funnel to avoid spilling.



**⚠ WARNING**

**To prevent injury due to rotating blades, never place hands or feet beneath the equipment at any time.**

**To prevent injury from thrown blades, never operate equipment with reel blades that are cracked, badly bent, missing, or in any abnormal condition.**

## BEFORE STARTING THE ENGINE

1. Be familiar with the controls, how each functions, and what each operates.
2. Check engine oil level. Add oil if necessary, following the engine manufacturer's recommendations. Refer to engine manual included with literature packet.
3. Open the fuel valve.
4. Fill the fuel tank with the amount and type of fuel recommended by the engine manufacturer.
5. **CHOKER:** For cold starts, set the throttle lever to the half-open position and pull the choke out to the ON position. For warm starts set the throttle to the half-open position and the choke to the OFF position.

## **WARNING**

This unit is not self propelled by a mechanical drive system. However, under some conditions the reel (blade) rotation may cause the unit to move under its own power.

**Engage the reel ONLY when you are in the operator's position behind the handle**

**The clutch bail is designed to be held by the operator to keep the reel belt engaged ONLY during use. DO NOT clamp or fasten the bail to the handle. If the reel is allowed to rotate while the operator is not in the proper operating position, the unit may move on its own. This will create an unsafe situation in which the operator and/or bystanders may be injured.**

## **WARNING**

When replacement parts are required, use genuine **Ryan** 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.

## LUBRICATION

The reel and idler pulley bearings are factory sealed and require no lubrication. Wheel bearings have grease fittings and require lubrication with a standard lithium based grease after every 25 hours of use.

## ENGINE OIL & AIR FILTER

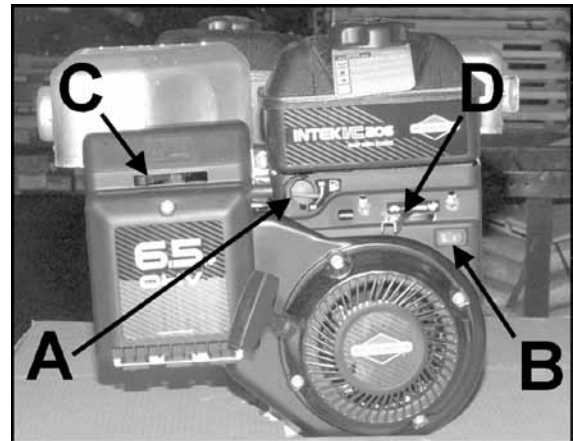
Engine Oil: See engine manual for oil specifications and change intervals.

Engine Air Filter: See engine manual for cleaning and replacements instructions.

## REN-O-THIN

**STARTING THE ENGINE**

1. Turn fuel shut-off valve **A** to "ON" position.
2. Push stop switch **B** to "ON" position.
3. Move manual choke control lever **C** to "CHOKE" position.
4. Move engine throttle control lever **D** to "FAST" position.
5. Grasp starter grip and pull slowly until resistance is felt, then pull cord rapidly to start engine. Repeat if necessary with choke opened slightly.
6. After engine starts, move choke **C** to "RUN" position.
7. Adjust throttle control **D** on engine as required.



B &amp; S engine used as example.

**OPERATING TIPS**

1. Adjust the blade height. (See adjustment section)
2. Start the unit in motion **BEFORE** engaging the reel to prevent unnecessary damage to the turf and to avoid bogging down the engine. Disengage the reel before stopping forward motion.
3. Make all passes across the turf at a uniform speed.
4. Disengage the reel at the end of each pass and before slowing or stopping to make a turn. This prevents turf damage while turning the unit.
5. If the engine bogs down while going through a thick patch of turf, push down on the handle just enough to raise the reel and allow the engine to return to normal speed.
6. Noise and vibration may be reduced by operating at the lowest engine speed which provides good results.

**NOTE:** Never cross hard objects or surfaces (such as sidewalks, driveways, stepping stones, etc.) with the reel engaged. Severe blade damage may occur.

**REELS AND SUGGESTED USES**

- 1/8" (3 mm) Fixed Blade Reel, Part No. 545440**  
2" (51 mm) blade spacing is excellent for general dethatching, renovating and breaking up cores.
- 1/16" (1.6 mm) Fixed Blade Reel, Part No. 547452**  
Blades can be spaced on 1" (25 mm) or 1-1/2" (38 mm) centers with the use of spacers between the blades. Use the 1" blade spacing for renovating heavy grass areas or preparing a lawn for re-seeding. Use the 1 1/2" (38 mm) blade spacing for renovating and thinning coarse stemmed grasses.

- 1/32" (0.8 mm) Fixed Blade Reel, Part No. 547453**  
3/4" (19 mm) blade spacing is excellent for thatch and grain control on fine bent grasses, vertical slicing, renovating and seed bed preparation.

- Flail Blade Reel, Part No. 544440**  
1/8" (3 mm) flail blades for thatch control and breaking up soil cores after aerating. This reel is **NOT RECOMMENDED** for fine lawns and turf, such as golf course greens.

## BLADE HEIGHT ADJUSTMENT

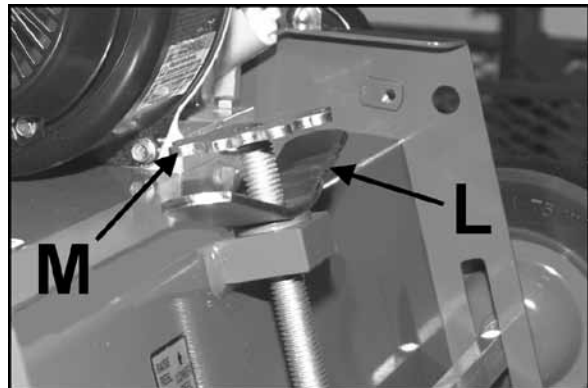
Blade height is adjusted by loosening the locking lever **L** and turning the adjusting knob **M** to raise or lower the front wheels.

After installing any reel, make the first adjustment on a hard level surface.

Adjust the blades to 1/8" (3 mm) above the surface. Test this setting on a small area, then adjust the blades to turf conditions as required. Each number on the adjustment decal represents a change of 1/8" (3mm).

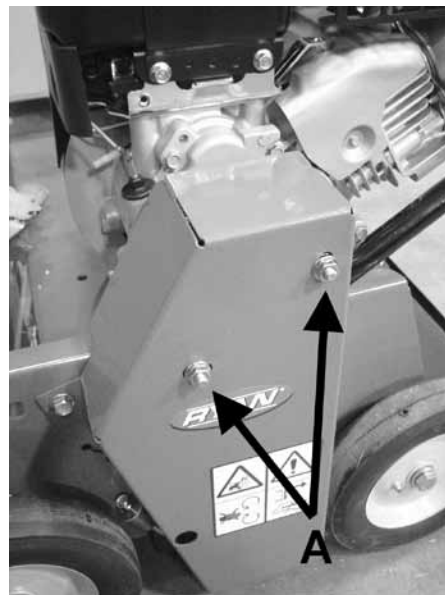
If the desired blade position cannot be obtained by adjusting the front wheels, the rear wheels can be adjusted. Mounting the wheels in the top hole lowers the blades and mounting the wheels in the bottom hole raises the blades.

The front axle may be locked in the down position to prevent the floating action if desired. Install and secure 1/2" screws, washers, lock washers and nuts in the slots above the axle. This will prevent the axle from moving.



## BELT GUARD ROD ADJUSTMENT

There are two belt guide rods **A** mounted in the belt guard. The guides hold the belt so it doesn't grab when declutched. Adjust as necessary so belt declutches.



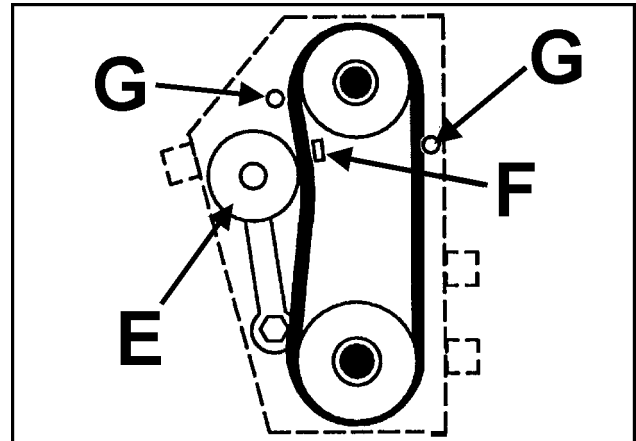
## REN-O-THIN

### 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.

**NOTE:** A matched pair of belts must be used for correct operation. If one belt needs to be replaced, you **MUST** replace both belts to assure proper belt tension.

1. Remove belt guards and old belts from unit.
2. Place the new belts between the idler pulley **E** and the snubber **F** on the idler arm and then over the engine and reel pulleys.
3. Install the belt guards. Make sure the belt guide rods **G** are outside of the belt.



### BLADE REPLACEMENT

**Fixed Blade Reels** - To replace worn or damaged blades or to change to different blade and/or spacer combination.

1. Remove reel assembly from chassis.
2. Remove bearing from end of shaft (opposite the pulley end). Loosen the set screw securing the locking collar. With a small punch, tap the bearing approximately one quarter turn in the opposite direction of the reel rotation. This relieves the cam lock action of the bearing so it can be removed from the shaft.
3. Hold the shaft 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:** 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.

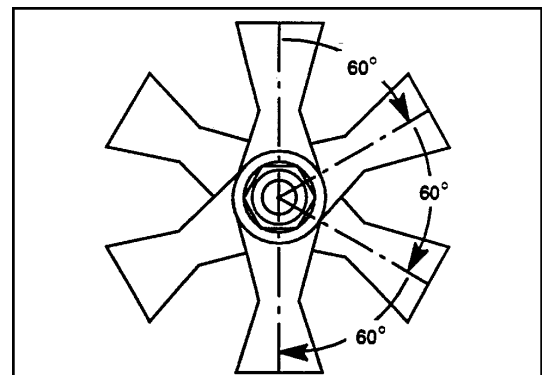
4. Re-install the shaft nut and tighten securely to keep the blades from coming loose.
5. Re-install the reel bearing by exactly reversing the steps taken to remove it.

**NOTE:** Blades that are worn on one cutting face may be reversed and used again.

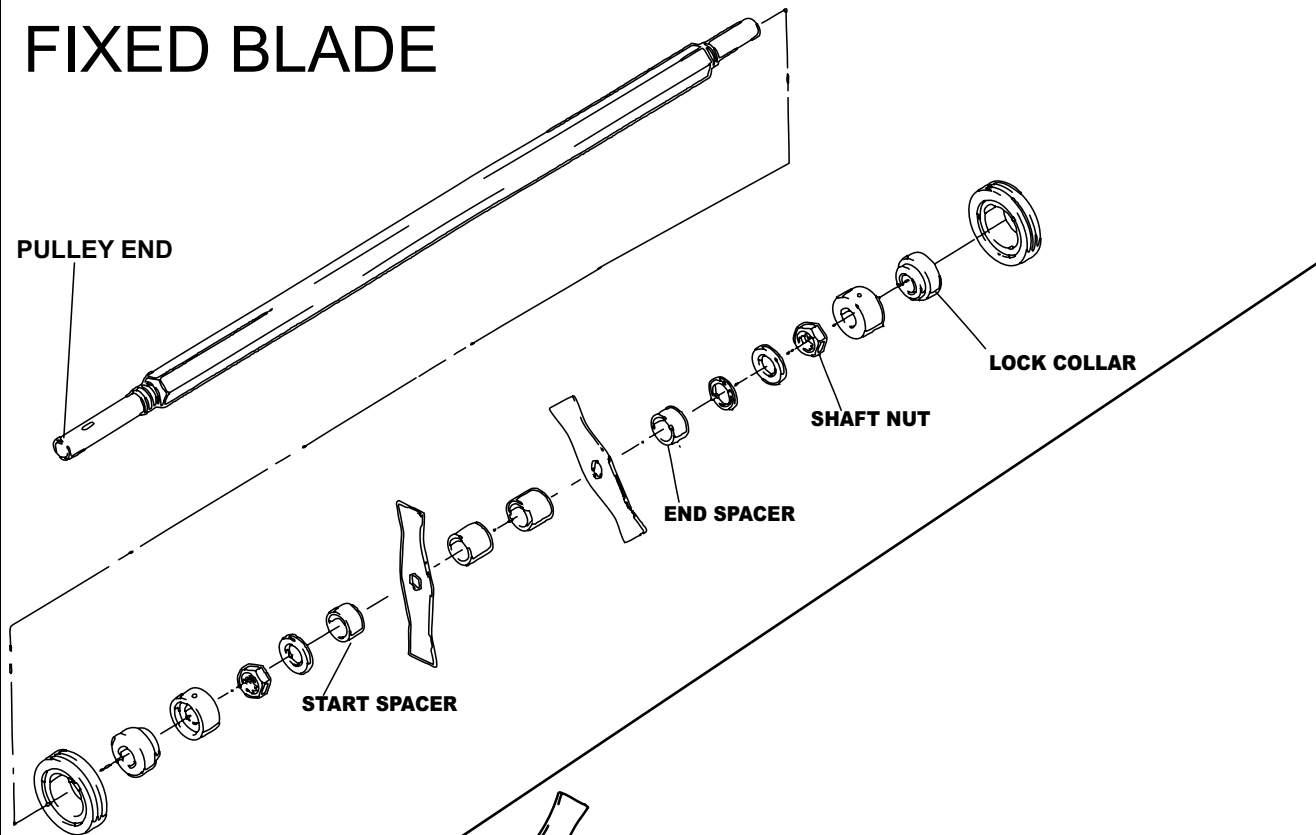
### Flail Blade reels

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

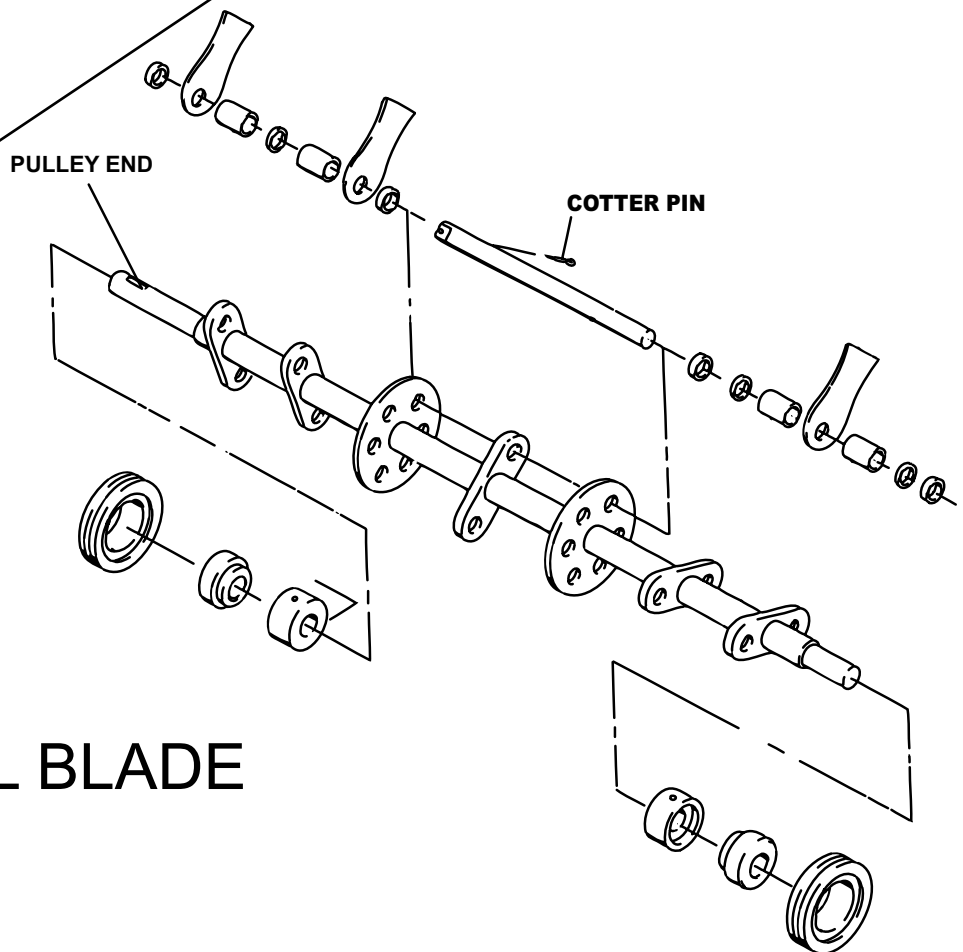
1. Remove reel assembly from chassis.
2. Remove the cotter pin from one end of one of the blade shafts and pull the shaft out.
3. Replace the blades and other worn parts and re-assemble in the proper order while sliding the shaft back into place.
4. Replace blades only in sets to maintain balance.
5. Install a new cotter pin to secure the shaft.



**FIXED BLADE**



**FLAIL BLADE**





**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.

**Before the equipment is put into storage for any period exceeding 30 days, the following steps should be taken.**

1. Drain all fuel from the fuel tank and fuel lines.
2. Start the engine and run until all the fuel is used from the carburetor float bowl and the engine stops.
3. While the engine is still warm, drain the crankcase oil and replace with the proper weight oil corresponding to the season the equipment will next be used.
4. Remove the spark plug and squirt a small amount of engine oil into the cylinder. Slowly pull the starter a few times to distribute oil in the cylinder and reinstall the spark plug.
5. Check the reel for damaged blades and replace as needed.
6. Lubricate the wheel bearings with a standard lithium based lubricant.

**To put the equipment into service after an extended period of storage:**

1. Check for loose parts and tighten if necessary.
2. Check for damaged blades and replace as necessary.
3. Fill the fuel tank and then check the engine oil level.
4. Start the engine and check for fuel leaks. Repair any leaks before operating the unit.

## 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:**..... 2700 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.)  
**Touch-up Paint:** .5l spray can P/N: 65334

### Engines:

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


**Model 744865E**.....Briggs & Stratton Model 13H332  
Type 00159, Trim B8  
4 cycle 6.5 H.P.  
Aluminum cylinder with cast iron  
sleeve

**Model 744877A**.....Honda Model GX160  
Type K1QX2  
4 cycle 5.5 H.P.


# EC Declaration of Conformity

The Undersigned Manufacturer:  
Schiller Grounds Care, Inc.  
One Bob-Cat Lane  
Johnson Creek, WI 53038

4166260 REV A

  
Chuck Clark  
Director of Operations  
Date: 24th January, 2011

EU Authorized Representative:  
Earlsmere Limited  
Unit 18 Valley Road  
Station Road industrial Estate  
Wombwell, Barnsley, South Yorkshire, S73 OBS UK

  
Jim White  
Managing Director  
Date: 24th January, 2011

Declare that the machine(s) described below:

Make & Type:..... **Ryan, Ren-o-thin**  
Category:..... **Scarifier Walk-Behind**  
Series:..... **744865E**  
Engine:..... **Briggs & Stratton**  
Type:..... **13H3320159B8**  
Speed:..... **High idle governor setting 3600 rpm ±100rpm**  
Net Installed Power:..... **4.8 KW (6.5 hp)**  
Operation Width:..... **483 mm (19")**

Make & Type:..... **Ryan, Ren-o-thin**  
Category:..... **Scarifier Walk-Behind**  
Series:..... **744877A**  
Engine:..... **Honda**  
Type:..... **GX160 8HNXS, 163A5A**  
Speed:..... **3500**  
Net Installed Power:..... **3.6 KW (4.8 hp)**  
Operation Width:..... **483 mm (19")**

Complies with the provisions of the following European directives and amendments and the regulations transposing it into national law:

Machinery Directive:.....**2006/42/EC**  
EMC Directive:.....**2004/108/EC**  
Noise in the Environment Directive.....**2000/14/EC**  
Vibration Directive.....**2002/44EC**  
Non Road Emissions.....**2002/88/EC**

**Sound:** Sound levels were determined in accordance with Directive 2000/14/EC and standards EN13684 and ISO 11094.

Guaranteed Sound power level:..... Model 744865E..... **104 dB**  
..... Model 744877A..... **102 dB**  
Operator Ear:..... Model 744865E..... **82 dB**  
..... Model 744877A..... **82 dB**

**Vibration:**

Hand/arm vibration was measured at the right and left operator handles per ISO 5349-1-2001 and ISO 5349-2-2001. Levels were calculated using ISO/DIS 5395-1, in accordance with 2002/44/EC. Only the highest of the left and right readings is given.

Guaranteed Vibration level ..... 13.1 m/s<sup>2</sup> ..... Model 744877A  
Guaranteed Vibration level..... 4.93 m/s<sup>2</sup>..... Model 744865E

**Intended Use and Limits:**

This machine is for use in dethatching grass covered areas as a power rake/dethatcher. It is intended for use on areas ranging from flat to 15 degrees slope. Loss of control may result on steeper slopes. It is not intended to be used in rocky areas.

**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)**

