



PRO SOD CUTTER

MODELS:

HSC18HD



MAN 4171977
Rev. B

PARTS MANUAL 4171976



SCHILLER

GROUNDS
CARE

OPERATORS 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.

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.

PRO SOD CUTTER

IMPORTANT MESSAGE

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

This product comes with Parts and Operator's Manuals. The useful life and good service you receive from this product depends to a large extent on how well you read and understand this manual. Treat this product properly and adjust it as instructed, and it will give you many years of reliable service.

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

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

Classen
1028 Street Road
Southampton, PA 18966

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

 **WARNING**

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

 **CAUTION**

CAUTION indicates a hazardous situation which, if not avoided, **COULD** 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.

Schiller Grounds Care, Inc.

One Bobcat Lane
Johnson Creek, WI 53038 U.S.A
Phone: 920-699-2000
Fax: 920-699-3683

MODEL NUMBER

SERIAL NUMBER

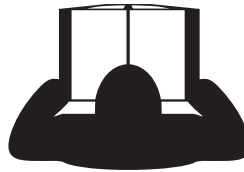
MODEL NUMBER: This number appears on sales literature, technical manuals and price lists.

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

Machine Preparation

Operator preparation and training

Read the Operation & Safety Manual



- If an operator or mechanic cannot read English, 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 safety goggles or safety glasses with side shields when operating. Do not operate barefoot or wearing open sandals. Long hair, loose clothing or jewelry may get tangled in moving parts.
- Wear hearing protection.
- Wear safety glasses.
- Never allow underage 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 or alcohol.
- 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 cut of objects such as rocks, toys, wire or other debris that may be thrown or get tangled in the sod cutter.
- Identify and mark objects to be avoided such as sprinkler heads, stakes, water valves, etc.
- 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.
- Cut sod only in daylight or in good artificial light.

Machine Preparation

- 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 blade and blade bolts for wear or damage. Replace worn or damaged blades and bolts.
- Verify that machine and attachments, if any, are in good operating condition.
- Do not engage blade until ready to cut sod.

OPERATING SAFELY

In General

- Use extra care when loading or unloading the machine into a trailer or truck.
- Use caution when making turns and crossing roads and sidewalks. Stop blade when not cutting sod.
- Do not run the engine in an enclosed area where dangerous carbon monoxide fumes can collect.
- Never leave a machine unattended. Always turn off blade and stop engine when leaving the operator position. When leaving the machine be sure the wheel drive clutch is engaged.
- Use extreme caution when reversing or pulling machine towards you.

Storage Safety

- Stop the engine and allow to cool before storing.
- Drain the fuel tank outdoors only.
- Store fuel in an approved container in a cool, dry place.
- Keep the machine and fuel containers in a locked storage place to prevent tampering and to keep children from playing with them.
- 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 gasoline storage area free of grass, leaves and excessive grease to reduce fire hazard.
- Clean grass and debris from cutting units, drives, mufflers and engine to help prevent fires.

Storage Safety

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



Operating On Slopes

Use Extra Care When Working On Slopes

- Do not operate on slopes if uneasy or uncertain. Ultimate responsibility for safe operation on slopes rests with the operator.
- Do not operate on steep slopes.
- Keep all movement on slopes slow and gradual.
- Do not cut sod near drop-offs, ditches or embankments. The machine could suddenly turn over if a wheel runs over the edge or an edge caves in.
- Do not turn on slopes unless necessary, and then turn slowly and downhill when possible.
- Be sure of your footing on slopes.

Interrupting Operation

- Before leaving the operator's position:
 - Park on level ground.
 - Disengage the master clutch.
 - Shut off the engine.
- Disengage the master clutch and wait until the blade stops moving then disengage the blade clutch:
 - when not cutting sod;
 - for transport;
 - when crossing surfaces other than grass.
- Stop the engine, disengage the master clutch and wait until the blade stops moving:
 - before refueling;
 - before making blade adjustment.
- Stop the engine, disengage the master clutch, and disconnect the spark plug wire(s):
 - before clearing blockages;
 - before checking, cleaning or working on the machine;
 - after striking a foreign object. Inspect the machine for damage and make repairs before restarting;
 - if the machine begins to vibrate abnormally: shut off machine immediately. Inspect and make repairs 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 blade 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 operation.

MAINTENANCE 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 qualified maintenance technician for maintenance/service. Replace when work is complete.
- Adjust or repair only after the engine has been stopped and the blade has stopped moving.
- Disconnect spark plug wire(s) before doing any maintenance.
- 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. jack stands 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.

Blades

The sod cutter blade is sharp and can cut. Use extra caution when handling. Remove obstructions with care. Wrap the blade or wear gloves.



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

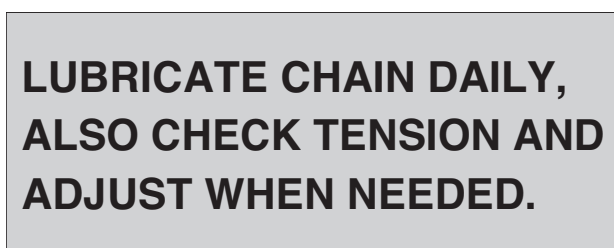
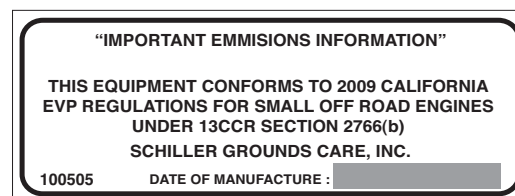
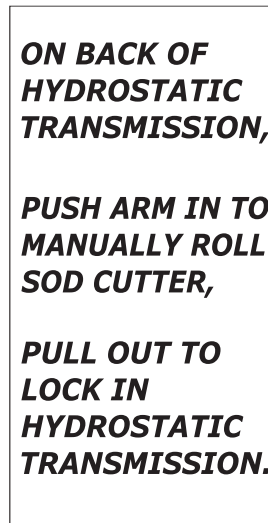
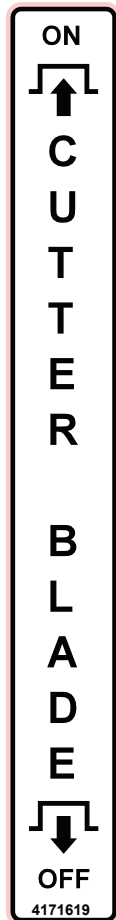
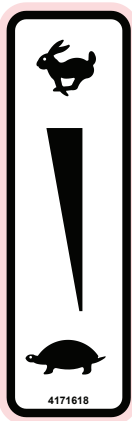
Fuel

- Petrol (gasoline) and diesel fuels are flammable; petrol (gasoline) vapors are explosive. Use extra care when handling.
- 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.



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 (gas) 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.



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).

Daily Storage

1. Check engine oil level and air filter element daily.
2. Check oil level in hydro drive. Hydro drive uses 20W50 oil.
3. Close fuel valve at bottom of fuel tank.
4. Clean cutting blade (grass, dirt, etc.).

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, check the transmission 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 blade 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.

PRE-DELIVERY CHECK LIST

Check the following before you deliver the sod cutter to the customer.

1. Guards and shields fastened in place.
2. Decals fastened and legible.
3. Tire pressure.
4. Gas lever on engine turned on.
5. All eight lubrication points greased.
6. 2:1 gearbox oil level.
7. Engine oil level.
8. Air cleaner.
9. Touch up scratches.
10. Chain tight.
11. Engine belt tight.
12. Levers working properly.
13. All controls.
14. Add fuel, start engine, test run.

DATE SET UP _____/_____/_____

DELIVERY CHECK LIST

Review the operators manual with the customer.

Explain the following:

1. Schiller Grounds Care, Inc. warranty.
2. Safe operation and service.
3. How to use controls.
4. Operating the machine correctly.
5. Transporting the sod cutter.
6. Correct fuel and lubricants.
7. Daily and periodic inspections.
8. Changing oil after break-in period.
9. Servicing the sod cutter regularly and correctly.
10. Schiller Grounds Care, Inc. parts and service.
11. Give the customer the operators manual and encourage customer to read it.

DATE DELIVERED _____/_____/_____

SIGNATURE _____

ENGINE

Model HSC18HD 4-cycle GX160 Honda
..... 9.9 cu. in. (163 cc)

Starter Recoil

Governor 3400 RPM \pm 200 RPM, no load

Clutch spring loaded belt tightener type

REDUCTION

Engine to blade 3.03 to 1

Engine to drive wheels 57.2 to 1

WHEELS:

Drive 8 5/8" (219 mm) Dia. w/knobby
..... tread vulcanized to hub

Rear 8 x 1.75 (203 X 45mm) semi-pneumatic tires

CUTTING WIDTH:

HSC18 18"

LUBRICATION

Hydro Drive 20W50

Transmission (Gearbox) 10W30

Cutting depth up to 2-1/2"

Blade speed 1200 RPM @ 3400 engine RPM

DIMENSIONS

Wheel Base 22"

HSC185 52"L x 38"H x 24.5"W

WEIGHT

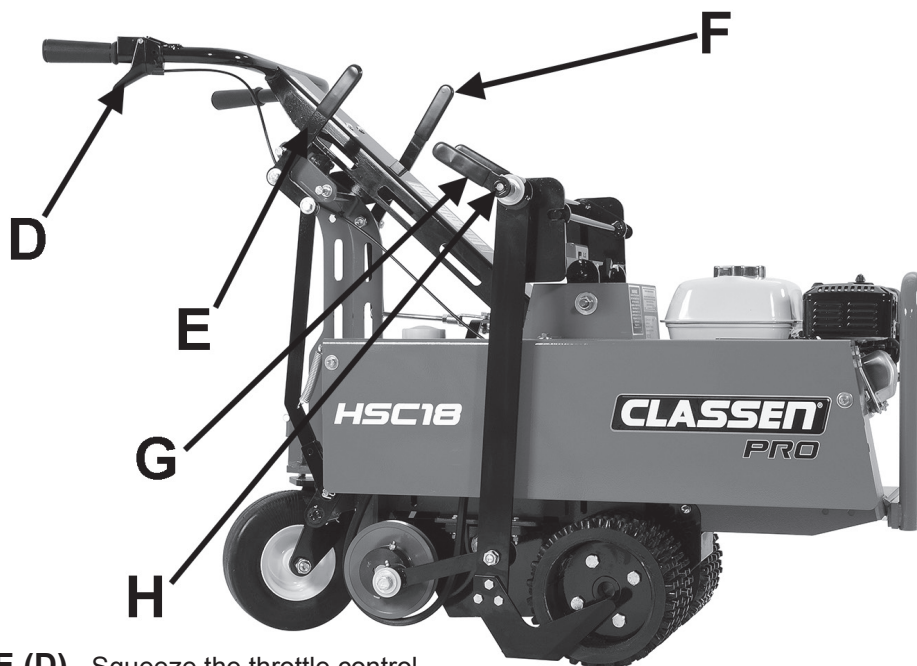
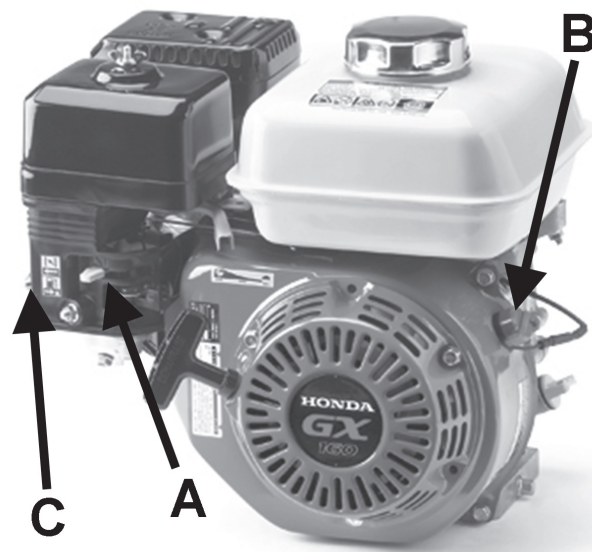
Dry Weights

HSC185 336 lbs.

FUEL SHUT OFF (A) - Move to the "OFF" position to shut off the fuel whenever transporting the machine by trailer, truck or during storage. 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 engine.

CHOKE (C) -
Move to the "CHOKE" position to apply the choke.
Move to the "RUN" position to remove the choke.



THROTTLE (D) - Squeeze the throttle control to increase the engine rpm. Squeezing the throttle control to increase the engine rpm also engages the centrifugal clutch powering the blades and wheels when the blades and/or wheel drives are engaged.

CUTTER BLADE HANDLE (E) -
Move the Cutter Blade handle forward to engage the blade drive.
Move the Cutter Blade handle back to disengage the blade drive.

HEIGHT ADJUSTMENT NUT (G) -
Loose the Height adjustment nut to allow raising or lowering the cutter blade.


WHEEL DRIVE HANDLE (F) - Move the Wheel Drive Handle forward from the neutral position N to C (cut) or T (Transport) to put the transmission into forward. Transport is faster than Cut. Move the Wheel Drive Handle rear ward from the neutral position N to R to put the transmission into reverse.

HEIGHT ADJUSTMENT BAR (H) -
Use the Height Adjustment Bar to raise or lower the cutter blade and to get the desired sod cutting depth.

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.
- 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.
- Inspect area. Remove stones or other hard objects that might cause damage.
- Check that there are no underground utilities in work area.
- Check all lubrication points and grease as instructed in manual.
- Perform a functional check of the safety interlock system each time you operate the unit. If it doesn't work, repair before using the machine.

READ SAFETY SIGNS

 **WARNING**
ALL GUARDS MUST
BE IN PLACE WHILE
MACHINE IS IN OP-
ERATION.

 **WARNING**
KEEP HANDS AND
FEET AWAY FROM
MOVING PARTS.

Carefully read and follow caution stickers.

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 supplied with machine.
3. Check Hydro gear oil, add 20W50 oil if necessary.
4. Open the fuel valve.
5. Fill the fuel tank with the amount and type of fuel recommended by the engine manufacturer.

Petrol (gasoline) is extremely flammable and highly explosive under certain conditions. **BE SURE** to install fuel cap after refueling.

WARNING



Fill fuel tank with good quality, clean, unleaded regular gasoline to the level recommended by the engine manufacturer.

To Check or Add Fuel:

- Use a funnel to avoid spilling.
- Do it outdoors.
- Do not smoke.
- Stop the engine; allow to cool.
- Do not overfill.
- Clean up spilled fuel.

SAFETY

Operate Safely

Carefully read this manual and operate sod cutter correctly.

Protect Children

Keep children and pets out of the area where you are cutting sod.

Avoid Tipping

Make sure you do not get too close to sharp drop-offs to avoid tipping sod cutter over.

Operate Safely On Slopes

You may cut sod any direction on slopes, however, make sure you do this carefully. Cutting on slopes can be dangerous. To avoid any accidents, make sure to leave yourself room to correct the problem if one arises. Always park your sod cutter on level ground.

Practice Safe Maintenance

Keep all machine parts in good condition and fastened in place. Fix damages immediately. Replace worn or broken parts. Whenever you work on the sod cutter, disconnect spark plug wire.



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.



Carbon monoxide present in the exhaust is an odorless and deadly gas. Never start or run the engine inside where exhaust fumes can collect.

Provide enough fresh air to keep fumes from getting too strong. Replace any warning decal that becomes illegible immediately.

Start Engine Safely

Make sure hands and feet are out of the way of moving parts when starting engine.

ENGINE STARTING PROCEDURES

NOTICE: There are two locations on this engine that require oil, both the crankcase and the transmission (gearbox). Running the engine or gearbox with a low oil level can cause engine damage. Refer to the engine manual for complete engine information and recommendations.

Engine Oil Level Check

1. **BEFORE CHECKING ENGINE:**
 - make certain the engine is level
 - the engine switch is in the OFF position
 - the sod cutter blade is NOT engaged
 - the drive wheels are disengaged.
2. Remove the filler cap/dipstick and wipe it clean.
3. Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick.
4. If the oil level is low, fill to the edge of the oil filler hole with the recommended oil. SAE 10W-30 is recommended for general use. Refer to engine oil recommendations in engine manual for other viscosities and information.
5. Screw in the filler cap/dipstick securely.

Transmission (Gearbox) Oil Level Check

(This unit is bolted to the engine)

1. Check the transmission oil level with the engine stopped and in a level position.
2. Remove the filler cap/dipstick and wipe it clean.
3. Insert and remove the dipstick without screwing it into the filler hole. Check the oil level shown on the dipstick.
4. If the oil level is low, add oil to reach the upper limit mark on the dipstick. Use the same oil that is recommended for the engine, SAE 10W-30.
5. Screw in the filler cap/dipstick securely.

Hydro Drive Oil Level Check

1. Check the Hydro Drive oil level with the engine stopped and in a level position.
2. If the oil level is low, add oil to reach the upper limit mark. Use SAE 20W50 oil.

Starting Engine

1. Turn fuel cock to the "open" position.
2. Turn choke on (closed).
3. Turn ignition switch to "on".
4. Pull recoil starter rope until engine starts.
5. After engine is warm, turn off choke (open).
6. Allow engine to run one minute before cutting sod.
7. Check engine rpm setting before operating. DO NOT exceed 3600 rpm.

Stopping Engine

1. Release finger throttle control.
2. Turn off ignition switch.

OPERATING THE SOD CUTTER

Preparation

1. Check lawn area for obstacles and debris (i.e. sprinklers, hoses, toys, etc.). Remove all items.
2. Make sure underground sprinkler heads and other hidden obstacles are marked to prevent damage.
3. Mark other areas where sod cutting will be a problem or too risky (i.e. mud, tree roots, steep hills).

Operating

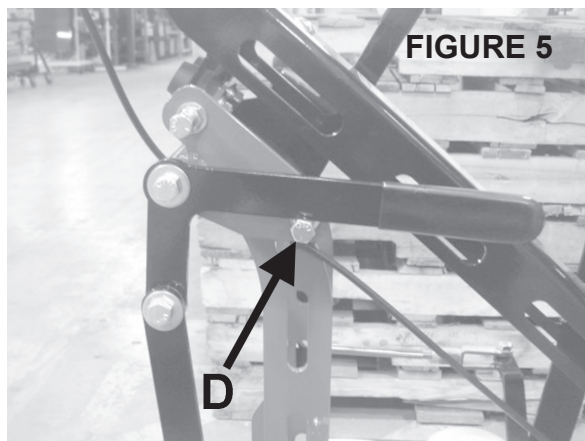
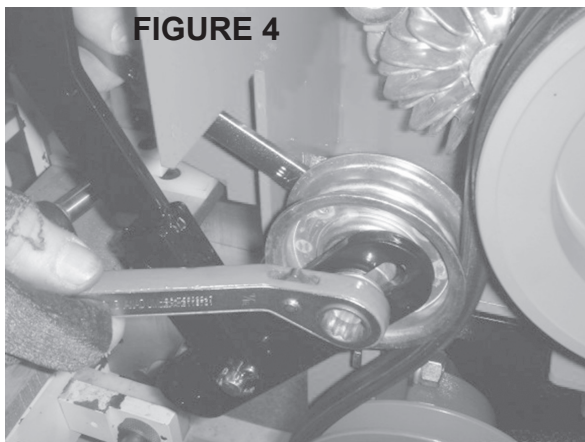
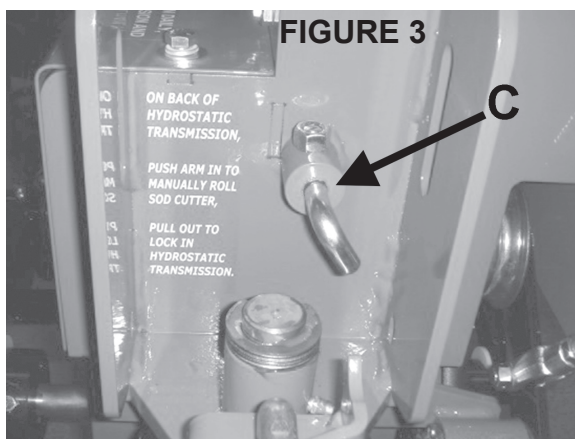
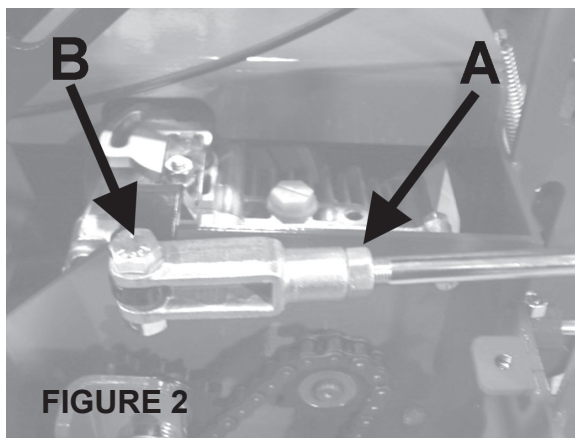
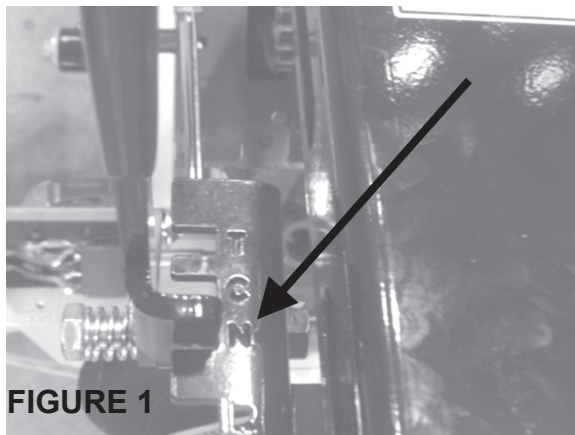
1. Start the engine. CAUTION: To avoid injury, keep your feet or other body parts away from the blade while starting the engine.
2. Select the correct cutting depth desired up to 2 1/2 inches. Loosen the tee handle from the depth gauge plate, located under the height adjustment bar, (#3 on illustration) and put it to the correct height setting. Tighten the tee handle.
3. Push the wheel drive transport handle (#5 on illustration) and the cutter blade speed handle (#4 on illustration) to the desired speed, toward the engine.
4. Raise the main handle upward so the front nose of the sod cutter rests on the ground.
5. Loosen the 1/2" handle nut (#2 on illustration) and lower the height adjustment bar to rest on the depth gauge. Now tighten the 1/2" handle nut securely so it will not loosen with the vibration of the machine.
6. Go to the back of the machine and lower the handle until the cutting blade rests on the ground. You are now ready to cut sod.
7. Turn the throttle to the desired operating speed by pulling the finger throttle control (#6 on illustration) toward you. Maximum engine rpm is recommended for smooth operation.
8. After cutting a short distance, stop machine by letting the finger throttle control go back to its original position. Check thickness of cut and adjust if necessary.
9. At the end of each cutting pass, lift up on the handle bar to clear the cutting blade from the sod. Retard the throttle control and turn machine around into the position for the next cut.
10. When finished cutting sod, reverse steps 3 through 6, leaving the wheel drive handle on for transportation.

NEUTRAL ADJUSTMENT

1. Put shift lever in Neutral Position (N). **Figure 1**
2. Loosen locking nut A on clevis, then remove bolt B and turn the clevis one way or the other to adjust neutral. **Figure 2.**
3. To check neutral setting, reassemble with control in neutral. Start the engine and pull pin C out. **Figure 3.** Increase engine RPM. The machine should NOT move. If machine moves, then repeat Steps 1-3 until set properly.

BELT ADJUSTMENT

1. Remove belt cover.
2. Loosen the pulley and move up the slot for tighter belt tension. **Figure 4**
3. After tension has been adjusted, check the over center adjustment.
4. Loosen bolt D and move to where the lever snaps over center and stays engaged. **Figure 5** Note: Too much over center may cause the belt to get loose.
5. Reinstall belt cover.



BELT DISENGAGEMENT

1. Remove belt cover for access.
2. Move blade engagement lever until idler is about 1/8" to 1/4" away from the back plate **Figure 6**
3. Adjust stop bolt E to the lever with idle 1/8" to 1/4" from back plate. **Figure 7**
4. Reinstall belt cover.

REAR WHEEL LOCK OR SWIVEL

To allow rear wheel to swivel:

1. Pull pin **F** up and turn. **Figure 8 & 9**

To lock rear wheel:

1. Turn pin **F**.
2. Move wheel back and forth until pin drops back into locking hole. **Figure**

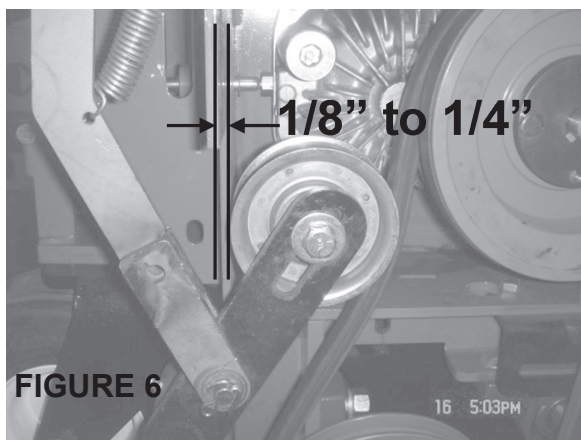


FIGURE 6

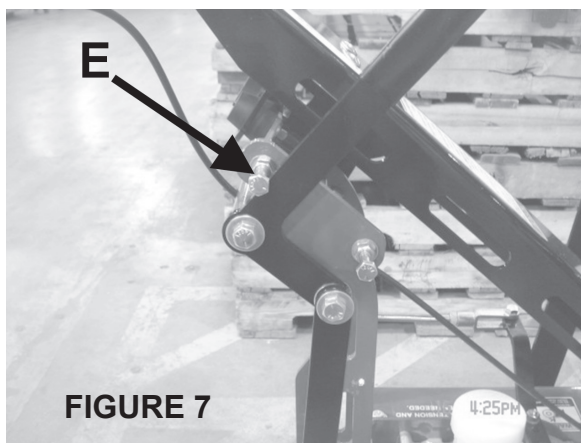


FIGURE 7

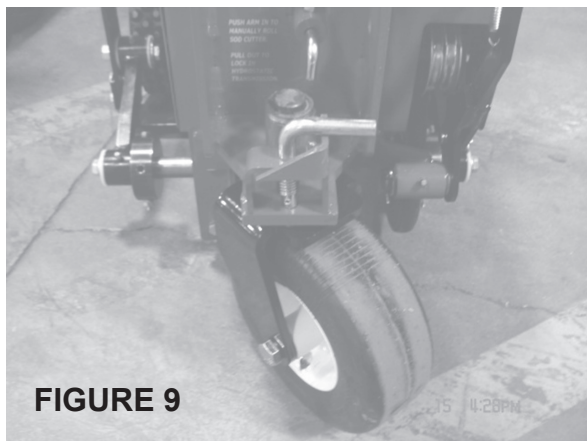


FIGURE 9

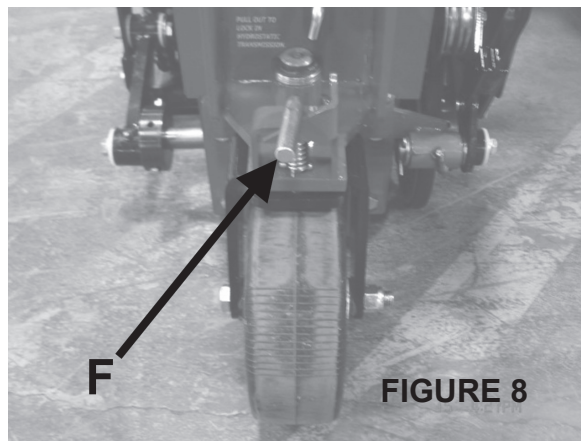


FIGURE 8



WARNING

BLADE SHARPENING – Wear the appropriate personal protective equipment when sharpening blades. Use correct tools for sharpening or when servicing machine.



SAFETY WARNING

DO NOT STORE GASOLINE (PETROL) UNNECESSARILY OVER LONG PERIODS OF TIME. TO PREVENT

POSSIBLE EXPLOSION, STORE ONLY IN AN APPROVED “SAFE” CONTAINER. TO PREVENT EXPLOSION OF VAPORIZED FUEL, DO NOT STORE MACHINE WITH FUEL IN TANK OR CARBURETOR IN AN ENCLOSURE WITH OPEN FLAME.

(EXAMPLE: FURNACE OR WATER HEATER PILOT LIGHT.)

GENERAL MAINTENANCE

To keep the sod cutter in good operating condition, perform

the following:

- Keep blade sharp; a sharp blade cuts cleaner, faster and more uniformly and places less load on the machine. Sharpen cutting edge on bevel or top side only.
- Keep drive belt at proper tension and free of oil and dirt at all times.
- Check engine oil level and air filter element daily.
- Check Hydro Gear oil (20W50 oil).
- Check for loose bolts and connections.
- All grease fittings are pressurized type. Use a good grade Lithium Base Grease or equivalent. Grease eccentric arms sparingly every 4 hours of service, all others daily. Wipe off all grease fittings before and after each greasing (there are a total of 8 grease fittings).
- To make sure the chain on the front drive wheels is tight, you will need to remove the chain guard to check this. If tightening is required, loosen nuts and bolts on the 3/4" pillow block bearings and push the bearings toward the back of the sod cutter until chain is tight. Make sure both bearings go back evenly to keep jackshaft running even with the frame. Lubricate the chain on the inner circumference, the side facing the sprocket, with a light oil such as SAE20 or SAE30. An oiling can or spray can with a straw for application is recommended. After doing this, retighten nuts and bolts on the bearing and replace the chain guard.
- Engine (refer to Honda owner's manual).

PROBLEM	CAUSE	REMEDY
Blade will not stay in ground	a. Bottom of blade is rounded off	a. Blade should be sharpened or replaced
Belts jump of	a. Wrong type of belt b. Pulley misalignment	a. Use only the special factory belt b. Realign pulley

NOTES: _____
