

JOHN DEERE
WORLDWIDE COMMERCIAL & CONSUMER
EQUIPMENT DIVISION

Walk-Behind Greensmower
180B, 220B & 260B

OMMT7338 J4

OPERATOR'S MANUAL



JOHN DEERE

⚠ 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

North American Version
Litho in U.S.A.

INTRODUCTION

Thank You for Purchasing a John Deere Product

We appreciate having you as a customer and wish you many years of safe and satisfied use of your machine.

Using Your Operator's Manual

This manual is an important part of your machine and should remain with the machine when you sell it.

Reading your operator's manual will help you and others avoid personal injury or damage to the machine.

Information given in this manual will provide the operator with the safest and most effective use of the machine.

Knowing how to operate this machine safely and correctly will allow you to train others who may operate this machine.

If you have an attachment, use the safety and operating information in the attachment operator's manual along with the machine operator's manual to operate the attachment safely and correctly.

This manual and safety signs on your machine may also be available in other languages (see your authorized dealer to order).

Sections in your operator's manual are placed in a specific order to help you understand all the safety messages and learn the controls so you can operate this machine safely. You can also use this manual to answer any specific operating or servicing questions. A convenient index located at the end of this book will help you to find needed information quickly.

The machine shown in this manual may differ slightly from your machine, but will be similar enough to help you understand our instructions.

RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward. When you see a broken line (-----), the item referred to is hidden from view.

Before delivering this machine, your dealer performed a predelivery inspection to ensure best performance.

Special Messages

Your manual contains special messages to bring attention to potential safety concerns, machine damage as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.



CAUTION: Avoid injury! This symbol and text highlight potential hazards or death to the operator or bystanders that may occur if the hazards or procedures are ignored.

IMPORTANT: Avoid damage! This text is used to tell the operator of actions or conditions that might result in damage to the machine.

NOTE: General information is given throughout the manual that may help the operator in the operation or service of the machine.

PRODUCT IDENTIFICATION

Record Identification Numbers

Walk-Behind Greensmower

180B, 220B, and 260B PIN (010001 -)

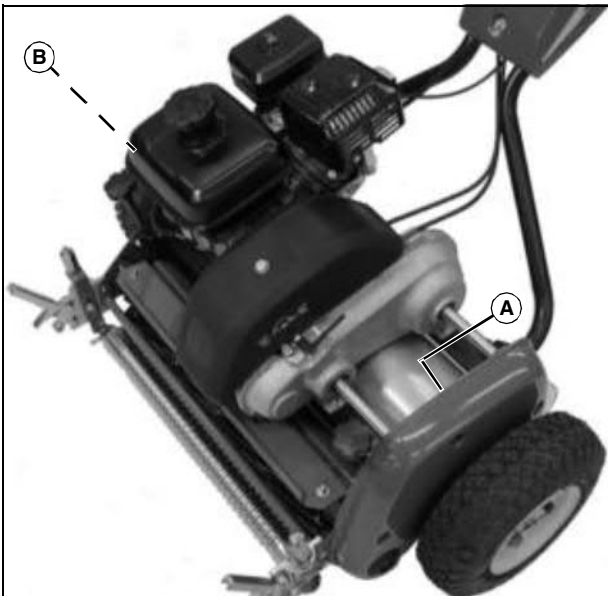
If you need to contact an Authorized Service Center for information on servicing, always provide the product model and serial number.

You will need to locate the model and serial number for the machine and for the engine of your machine and record the information in the spaces provided below.

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:



MX11249

PRODUCT IDENTIFICATION NUMBER (A):

ENGINE SERIAL NUMBER (B):

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Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>

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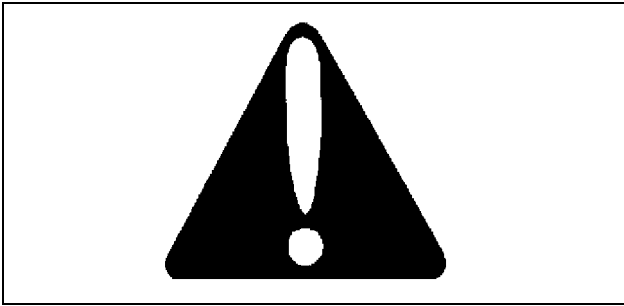
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OMMT7338 J4 - English

SAFETY LABELS

Understanding The Machine Safety Labels



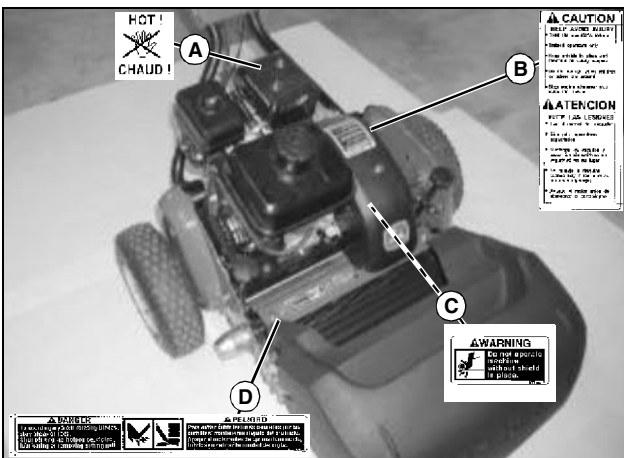
Safety-Alert Symbol

The machine safety labels shown in this section are placed in important areas on your machine to draw attention to potential safety hazards.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards.

The operator's manual also explains any potential safety hazards whenever necessary in special safety messages that are identified with the word, CAUTION, and the safety-alert symbol.

Safety Label Locations



MX21100, MT3366, MT7235, MT6517,

(A) Warning

- Hot surface

(B) Caution

Help Avoid Injury

- Read the operator's manual.
- Trained operators only.
- Keep shields in place and maintain all safety devices.
- Do not operate when children or others are around.

- Stop engine whenever you leave the mower.

(C) Warning

- Do not operate machine without shield in place.

(D) Danger

- To avoid injury from rotating blades, stay clear of reel.
- Shut off engine before servicing, lubricating or removing cutting units.

Emission Control System Certification Label

NOTE: Tampering with emission controls and components by unauthorized personnel may result in severe fines or penalties. Emission controls and components can only be adjusted by EPA and/or CARB authorized service centers. Contact your John Deere Commercial and Consumer Equipment Retailer concerning emission controls and component questions.

The presence of an emissions label signifies that the engine has been certified with the United States Environmental Protection Agency (EPA) and/or California Air Resources Board (CARB).

The emissions warranty applies only to those engines marketed by John Deere that have been certified by the EPA and/or CARB; and used in the United States and Canada in off-road mobile equipment.

Emission Compliance Period

If your engine has the emission compliance category listed on the emission control system certification or air index label, this indicates the number of operating hours for which the engine has been certified to meet EPA and/or CARB emission requirements. The following table provides the engine compliance period in hours associated with the category found on the certification label.

Agency	Category	Hours
EPA	C	125
EPA	B	250
EPA	A	500
CARB	Moderate	125
CARB	Intermediate	250
CARB	Extended	500

SAFETY LABELS

Certification

Your product has been tested and evaluated by the manufacturer and conforms with American National Standard B-71.4, "Safety Specifications" for commercial turf care equipment.

SAFETY

Operator Training Required

- Read the operator's manual and other training material. If the operator or mechanic cannot read English, it is the owner's responsibility to explain this material to them. This publication is available in other languages.
- Become familiar with the safe operation of the equipment, operator controls, and safety signs.
- All operators and mechanics should be trained. The owner of the machine is responsible for training the users.
- Never let children or untrained people operate or service the equipment. Local regulations may restrict the age of the operator.
- The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people, or property.
- Operate the machine in an open, unobstructed area under the direction of an experienced operator.

Preparation

- Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by the manufacturer.
- Wear appropriate clothing including hard hat, safety glasses and hearing protection. Long hair, loose clothing or jewelry may get tangled in moving parts.
- Inspect the area where the equipment is to be used and remove all objects such as rocks, toys and wire which can be thrown by the machine.
- Use extra care when handling gasoline and other fuels. They are flammable and vapors are explosive.
 - a. Use only an approved container.
 - b. Never remove gas cap or add fuel when engine is running. Do not smoke.
 - c. Never refuel or drain the machine indoors.
- Check that the operator's presence controls, safety switches and shields are attached and functioning properly. Do not operate unless they are functioning properly.

Operating Safely

- Never run an engine in an enclosed area where dangerous carbon monoxide fumes can collect.
- Only operate in good light, keeping away from holes and hidden hazards.
- Be sure all drives are in neutral and parking brake is

engaged before starting engine. Only start engine from the operator's position.

- Be sure of your footing while using pedestrian-controlled equipment, especially when backing up. Walk, don't run. Never operate on wet grass. Reduced footing could cause slipping.
- Slow down and use extra care on hillsides. Be sure to travel in the recommended direction on hillsides. For this machine, mow across hillsides, not up and down. Turf conditions can affect the machine's stability. Use caution while operating near drop-offs.
- Slow down and use caution when making turns and when changing directions on slopes.
- Stop the blades if the lawnmower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawnmower to and from the area to be mowed.
- Never operate with guards not securely in place. Be sure all interlocks are attached, adjusted properly, and functioning properly.
- Do not change the engine governor settings or overspeed the engine. Operating an engine at excessive speed can increase the hazard of personal injury.
- Stop on level ground, disengage drives, engage parking brake, and shut off engine before leaving the operator's position for any reason including emptying the grasscatchers or clearing blockages.
- Stop equipment and inspect reels after striking objects or if an abnormal vibration occurs. Make necessary repairs before resuming operations.
- Keep hands and feet away from the cutting units.
- Look behind and down before backing up to be sure of a clear path.
- Do not operate the machine while under the influence of alcohol or drugs.
- Use care when loading or unloading the machine into or off of a trailer or truck.
- Use care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.
- Inspect machine before you operate. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Be sure guards and shields are in good condition and fastened in place. Make any necessary adjustments before you operate.
- Never pick up or carry a lawnmower while the engine is running.
- Stop machine if anyone enters the area.
- Use only accessories and attachments approved by the manufacturer of the machine.

SAFETY

- Do not wear radio or music headphones. Safe service and operation requires your full attention.

Using a Spark Arrestor

The engine in this machine is not equipped with a spark arrestor muffler. It is a violation of California Public Resource Code Section 4442 to use or operate this engine on or near any forest-covered, brush-covered or grass-covered land unless the exhaust system is equipped with a spark arrestor meeting any applicable local or state laws. Other states or federal areas may have similar laws.

A spark arrestor for your machine may be available from your authorized dealer. An installed spark arrestor must be maintained in good working order by the operator.

Checking Mowing Area



MIF

- Clear mowing area of objects that might be thrown. Keep people and pets out of mowing area.
- Low-hanging branches and similar obstacles can injure the operator or interfere with mowing operation. Before mowing, identify potential obstacles such as low-hanging branches, and trim or remove those obstacles.
- Study mowing area. Set up a safe mowing pattern. Do not mow where traction or stability is doubtful.

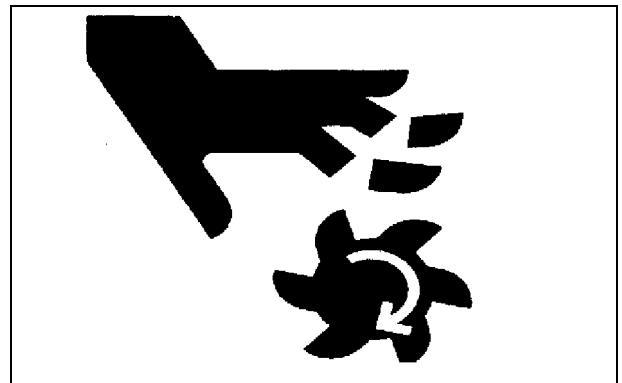
Parking Safely

1. Stop machine on a level surface, not on a slope.
2. Disengage mower blades.
3. Lock the park brake.
4. Stop the engine.
5. Remove the key.
6. Wait for engine and all moving parts to stop before you

leave the operator's station.

7. Close fuel shut-off valve, if your machine is equipped.
8. Remove the spark plug wire (for gasoline engines) before servicing the machine.

Avoid Injury From Contacting Blades



TS283

- Rotating cutting cylinders can cut off arms and legs, and throw objects. Failure to observe safety instructions could result in serious injury or death.
- Keep hands, feet and clothing away from rotating cutting cylinders when engine is running.
- Be alert at all times, operate machine carefully. People, especially children can move quickly into the mowing area before you know it.
- Shut off cutting cylinders when you are not mowing.
- Park machine safely before leaving the operator's station for any reason including emptying the grasscatchers.
- Always wear gloves when manually rotating reel.
- Use a long-handled brush when applying reel-sharpening compound.

Rotating Blades are Dangerous - Protect Children and Prevent Accidents

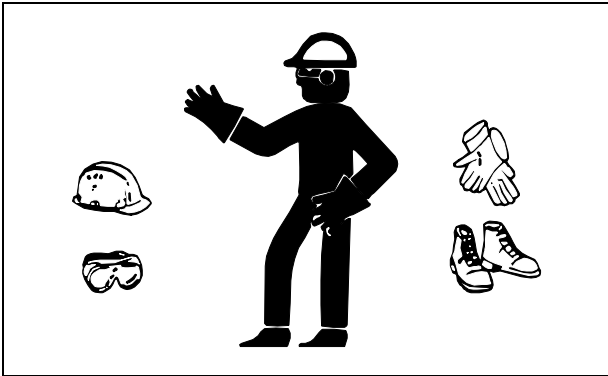
Protect Children:

- Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to lawn-mowing machines and mowing activity. Stay alert to the presence of children. Never assume that children will remain where you last saw them.
- Keep children indoors, out of the mowing area, and in the watchful eye of a responsible adult, other than the operator, when a mower is being operated.

SAFETY

- Be alert and turn mower off if a child enters the work area. They don't understand the dangers of rotating blades or the fact that the operator is unaware of their presence.

Wear Appropriate Clothing



MIF

- Always wear safety goggles, or safety glasses with side shields, and a hard hat when operating the machine.
- Wear close fitting clothing and safety equipment appropriate for the job.
- While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Wear a suitable protective device such as earplugs. Loud noise can cause impairment or loss of hearing.

Maintenance and Storage

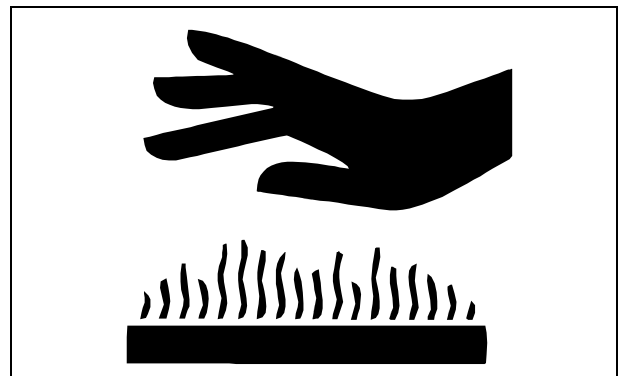


MIF

- Never operate machine in a closed area where dangerous carbon monoxide fumes can collect.
- Disengage drives, lock parking brake, stop engine and remove key or disconnect spark plug (for gas engines). Wait for all movement to stop before adjusting, cleaning or repairing.

- Clean grass and debris from cutting units, drives, mufflers, and engine to help prevent fires. Clean up oil or fuel spillage.
- Let engine cool before storing and do not store near flame.
- Shut off fuel while storing or transporting. Do not store fuel near flames or drain indoors.
- Park machine on level ground. Never allow untrained personnel to service machine. Understand service procedure before doing work.
- Use care when checking cutting units. Wear gloves, and use caution when servicing cutting units.
- Keep hands, feet, clothing, jewelry and long hair away from moving parts. If possible, do not make adjustments with the engine running.
- Keep all parts in good working condition and all hardware tightened. Replace all worn or damaged decals.
- Be careful during adjustment of the machine to prevent entrapment of the fingers between moving blades and fixed parts of the machine.

Prevent Fires

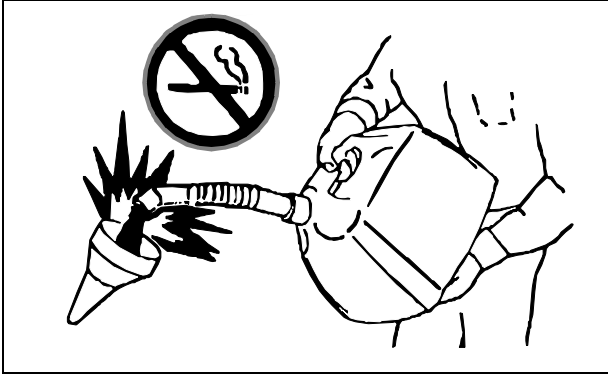


- Remove grass and debris from engine compartment and muffler area, before and after operating machine, especially after mowing or mulching in dry conditions.
- Empty the grasscatcher completely before storing.
- Always shut off fuel when storing or transporting machine, if the machine has a fuel shutoff.
- Do not store machine near an open flame or source of ignition, such as a water heater or furnace.

SAFETY

Handling Fuel Safely

To avoid personal injury or property damage, use extreme care in handling fuel. Fuel is extremely flammable and fuel vapors are explosive:

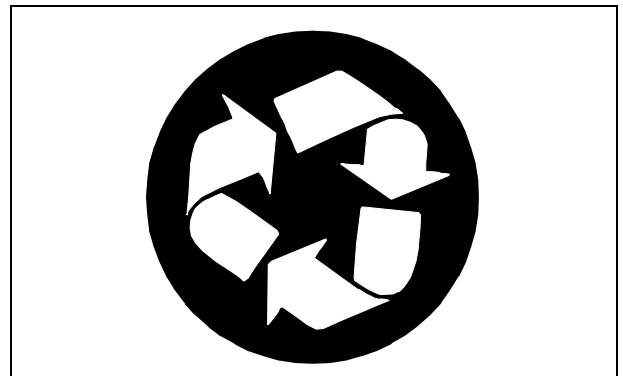


- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only an approved fuel container. Use only non-metal, portable fuel containers approved by the Underwriter's Laboratory (U.L.) or the American Society for Testing & Materials (ASTM). If using a funnel, make sure it is plastic and has no screen or filter.
- Never remove the fuel tank cap or add fuel with the engine running. Allow engine to cool before refueling.
- Never add fuel to or drain fuel from the machine indoors. Move machine outdoors and provide adequate ventilation.
- Clean up spilled fuel immediately. If fuel is spilled on clothing, change clothing immediately. If fuel is spilled near machine, do not attempt to start the engine but move the machine away from the area of spillage. Avoid creating any source of ignition until fuel vapors have dissipated.
- Never store the machine or fuel container where there is an open flame, spark, or pilot light such as on a water heater or other appliance.



- Prevent fire and explosion caused by static electric discharge. Static electric discharge can ignite fuel vapors in an ungrounded fuel container.
- Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before fueling.
- Remove fuel-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a fuel dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until the fueling is complete. Do not use a nozzle lock-open device.
- Never overfill fuel tank. Replace fuel tank cap and tighten securely.
- Replace all fuel container caps securely after use.
- For gasoline engines, do not use gas with methanol. Methanol is harmful to your health and to the environment.

Handling Waste Product and Chemicals



Waste products, such as, used oil, fuel, coolant, brake fluid,

SAFETY

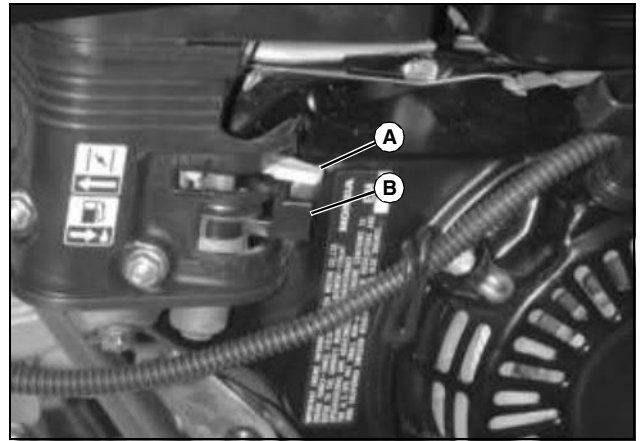
and batteries, can harm the environment and people:

- Do not use beverage containers for waste fluids - someone may drink from them.
- See your local Recycling Center or authorized dealer to learn how to recycle or get rid of waste products.
- A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques. The seller of the chemical products used with your machine is responsible for providing the MSDS for that product.

OPERATING

Daily Operating Checklist

- Test safety systems.
- Check tire pressure.
- Check fuel level.
- Check engine oil level.
- Remove grass and debris from engine compartment and muffler area, before and after operating machine.
- Clean air intake screen.
- Check area below machine for leaks.



MX11235

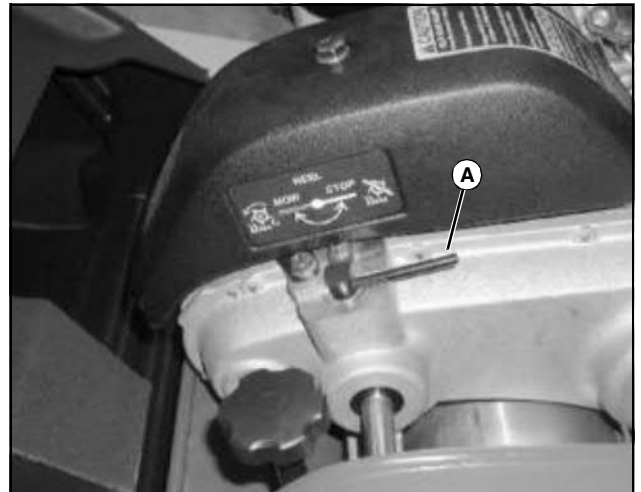
- A - Choke Lever**
- B - Fuel Shut-off**

Engine Controls



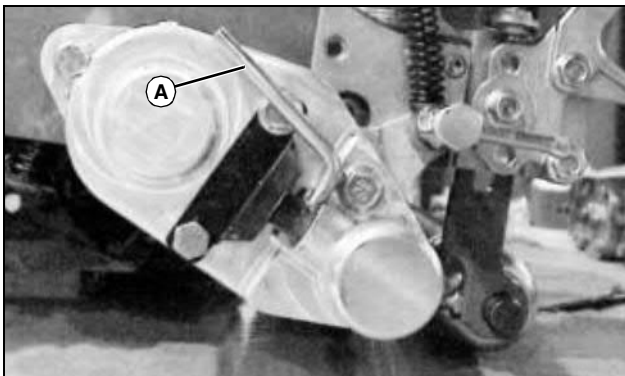
MX11234

- A - Run/Off Switch**
- B - Travel Clutch Lever**
- C - Throttle Lever**
- D - Operator Presence Bail**
- E - Park Brake Lever**



MX21101

- A - Reel Clutch Handle**



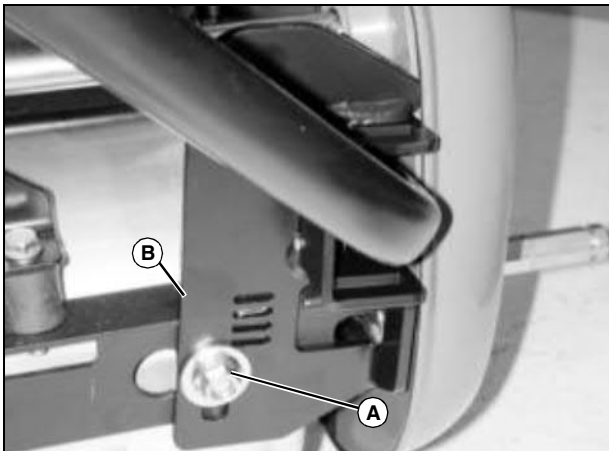
M60622

- A - GTC Handle**

OPERATING

Adjusting Handlebar

NOTE: Make sure bracket (B) is straight up and down, and not at an angle.



MX12973

1. Loosen nut (A) on each side of machine.
2. Position handlebar to desired position and tighten nut (A).

Using Run Switch



MX11234

Flip toggle switch (A) forward to run engine.

- Flip toggle switch (A) rearward (toward operator) to stop engine.

Using Operator Presence Bail



MX11234

The operator presence bail (A) stops all moving parts when released.

The operator presence bail (A) when squeezed with handlebar (B) permits engagement of the clutch lever (C).

Using Travel Clutch Lever (Forward Travel)



MX11234

1. Hold bail (A) to handlebar (B).
2. Push clutch lever (C) forward to engage drive clutch.
3. Release bail (A) to stop travel.

OPERATING

Using Park Brake Lever



MX11234

Release bail (A) and pull brake lever (B) rearward to stop mower movement.

Using Throttle Lever



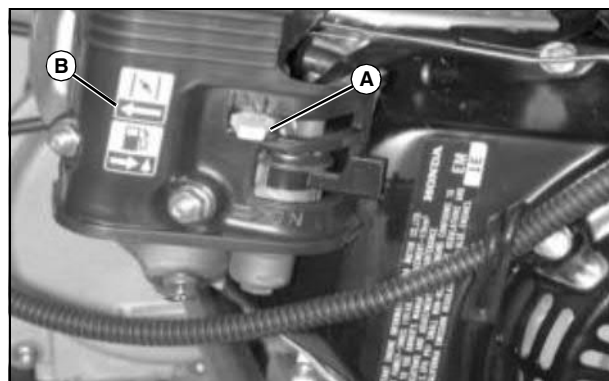
MX11234

Use throttle lever (A) to adjust engine speed and rate of travel.

Pull lever (A) back (toward operator) to reduce engine speed.

Adjust throttle lever depending on rate of travel, cutting height, and ground contour.

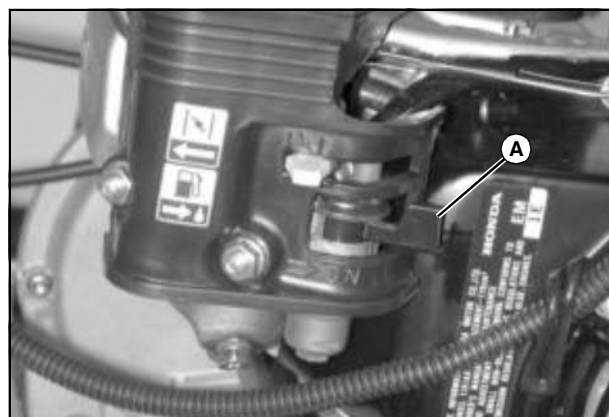
Using Choke Lever



MX11246

Move choke lever (A) toward the decal (B) at right for the choke position.

Using Fuel Shut-Off Valve



MX11246

This unit is equipped with a 2-position fuel shut-off valve (A). Slide lever to the left to open or to the right to close the fuel shut-off valve.

Closed (off) position:

- When performing any type of engine service.
- When transporting.
- During storage.

Open (on) position:

- Fuel shut-off valve must be in the full open (on) position for proper fuel delivery to the engine.

Using Reel Clutch Handle

1. Park the machine safely. (See Parking Safely in the Safety section.)

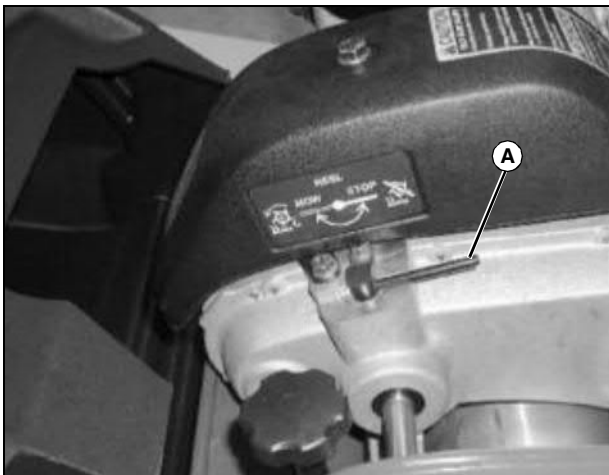
OPERATING



CAUTION: Avoid injury! Clutch handle may be difficult to turn, requiring extra effort. Do not grab reel with hand to loosen clutch handle as blades are sharp.

NOTE: Do not force or kick the clutch handle, the machine may need to be rocked to move handle.

Use clutch handle only when cutting. Clutch must be at stop when transporting. Never engage reel clutch when mower is moving.

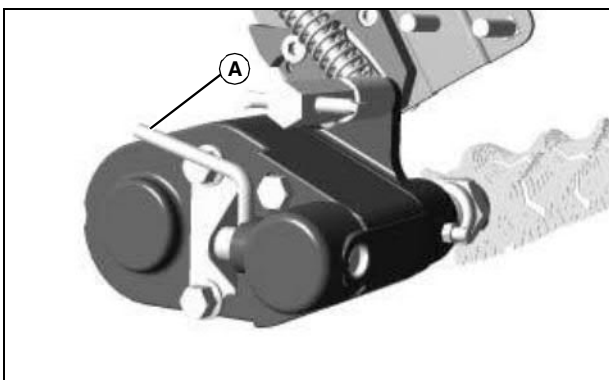


MX21101

- Clutch handle (A) points toward the rear when at stop and full forward when at the mow position.
- Handle will turn 180 degrees from stop to mow.

NOTE: Reel will turn only when travel clutch lever is engaged and reel clutch handle is in the mow position.

Using Greens Tender Conditioner (GTC) Handle



MX12981

Turn handle (A) up in the (detent) position for run.

Turn handle (A) down in the (detent) position for off.

Starting The Engine



CAUTION: Avoid injury! Engine exhaust fumes contain carbon monoxide and can cause serious illness or death.

Move the machine to an outside area before running the engine.

Do not run an engine in an enclosed area without adequate ventilation.

- Connect a pipe extension to the engine exhaust pipe to direct the exhaust fumes out of the area.
- Allow fresh outside air into the work area to clear the exhaust fumes out.

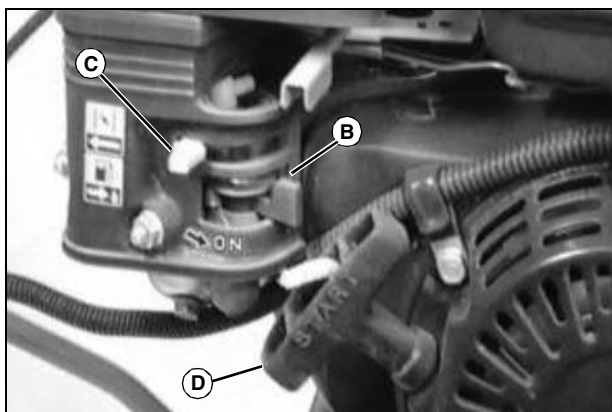
1. Lock the park brake lever.
2. Disengage reel and drive clutches.



MX11234

3. Push run/off switch (A) forward to on position.
4. Move throttle to half open position.

OPERATING



M86618

5. Turn fuel shut-off valve (B) to the on position.
6. Set choke (C) at closed position.
7. Pull starter handle (D).

NOTE: If engine fails to start after three attempts, return choke to open.

8. Move choke to open position after engine has started.
9. Allow engine to warm up before applying load.

NOTE: If mower will not be used for a long period, close fuel shut-off valve (D) and leave run/off switch (C) in the run position.

Engine will continue to run for a few minutes.

After engine stops completely, pull run/off switch rearward (toward operator) to stop position.



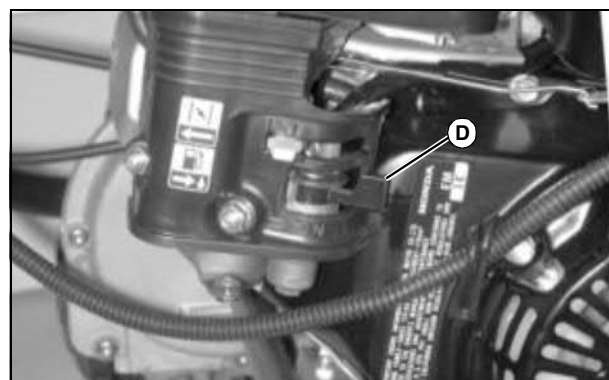
MX11234

Stopping The Engine



MX11234

1. Release bail (A).
2. Pull throttle lever (B) all the way back (toward operator). Let engine idle 2 - 4 minutes to allow engine to cool down.

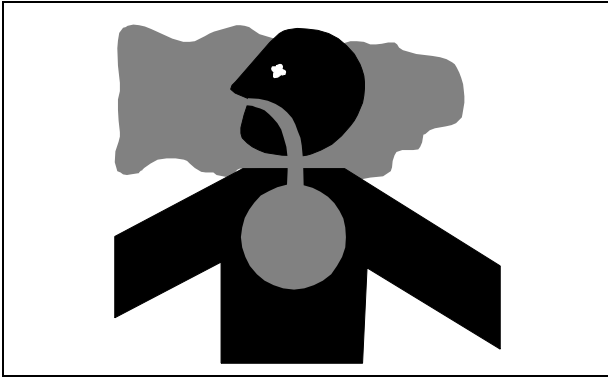


MX11246

4. Turn fuel shutoff valve (D) to the off position.

OPERATING

Testing Safety Systems



CAUTION: Avoid injury! Engine exhaust fumes contain carbon monoxide and can cause serious illness or death.

Move the machine to an outside area before running the engine.

Do not run an engine in an enclosed area without adequate ventilation.

- **Connect a pipe extension to the engine exhaust pipe to direct the exhaust fumes out of the area.**
- **Allow fresh outside air into the work area to clear the exhaust fumes out.**

The safety systems installed on your machine should be checked before each machine use. Be sure you have read the machine operator manual and are completely familiar with the operation of the machine before performing these safety system checks.

Use the following checkout procedures to check for normal operation of machine.

If there is a malfunction during one of these procedures, do not operate machine. **See your authorized dealer for service.**

Perform these tests in a clear open area. Keep bystanders away.

Testing Park Brake

1. Engage park brake.
2. Run engine at low idle.
3. Engage operator presence bail.
4. Slowly engage travel clutch lever.

Result: Engine should stall with no movement of the mower.

Testing Run Switch

1. Flip run switch rearward (toward operator) to OFF position.
2. Pull start handle.

Result: Engine should not start.

Testing Operator Presence Bail

1. Operate machine in clear open area.
2. Release operator presence bail.

Result: Cutting reel should stop rotating and machine should stop moving forward. Engine should continue to run.

Transporting Machine on Trailer

Be sure trailer has all the necessary lights and signs required by law.



CAUTION: Avoid injury! Use extra care when loading or unloading the machine into a trailer or truck.

1. Move forward onto heavy-duty trailer.
2. Lock park brake.
3. Machines with fuel shut-off: Turn fuel shut-off to off position.
4. Fasten machine to trailer with heavy-duty straps, chains, or cables. Both front and rear straps must be directed down and outward from machine.



Suggest:

If the above button click is invalid.

Please download this document

first, and then click the above link

to download the complete manual.

Thank you so much for reading

OPERATING - CUTTING UNITS

Cleaning Cutting Unit

IMPORTANT: Avoid damage! Grease after washing to purge fittings and bearings of water.

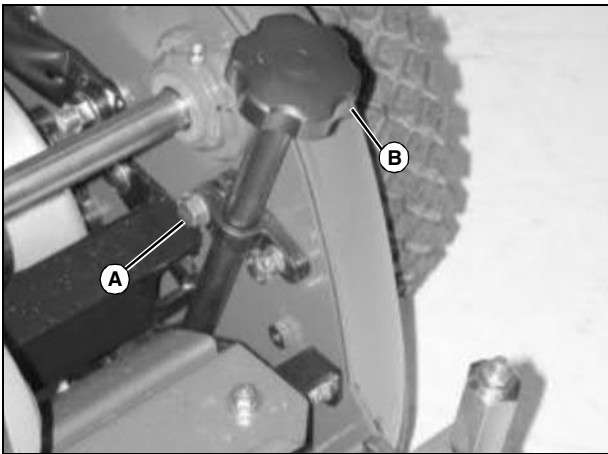
Do not use high pressure water to clean grass from reels.

- When cleaning do not direct high pressure water at the reel motor seals. Water may be drawn into bearings as they cool.
- Use high volume, low-pressure water to clean exterior of machine, the foot platform area and the reels.
- Do not use water to wash where electrical components are located. If water penetrates electrical connections it may create problems.
- Use compressed air not water to clean air screens. Reduce compressed air to less than 210 kPa (30 psi) when using for cleaning purposes. Clean grease fittings before lubricating. Replace lost or broken fittings immediately.

Adjusting Bed Knife-To-Reel

CAUTION: Avoid injury! Rotating parts can catch fingers, loose clothing, or long hair. Wait for engine and all moving parts to stop before leaving operator's station to adjust or service machine.

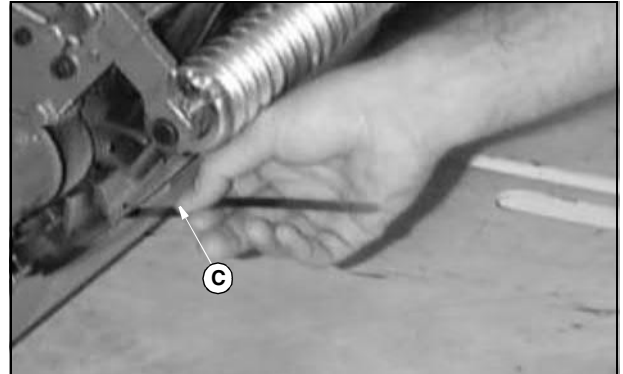
NOTE: Reel must be free to turn by hand.



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1. To adjust clearance between knife and reel blades, loosen clamp nut (A).
2. Turn adjusting knob (B) clockwise to decrease clearance.
 - Turn adjusting knob (B) counterclockwise to increase clearance.

CAUTION: Avoid injury! Always wear gloves when manually rotating reel.

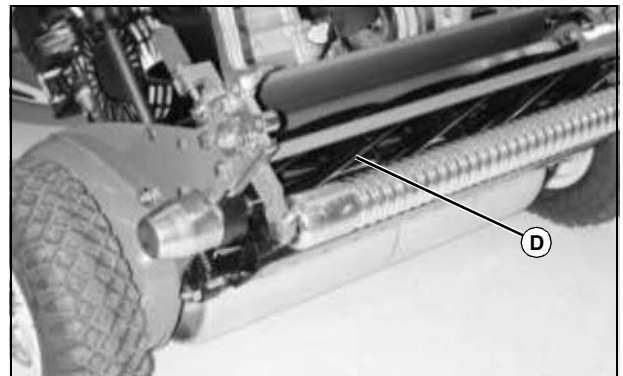


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3. Adjust ends of reel to 0.001" with feeler gauge (C).
4. Now inspect the entire length of the bed knife with a 0.002" feeler gauge. It should not go in anywhere if it does, go to step 7.
5. If the reel is contacting anywhere, go to Step 6.

CAUTION: Avoid injury! Always wear protective gloves when performing a service function on or near a cutting reel or bed knife. Severe injury can result from contact with sharp cutting edges.

NOTE: Always rotate the reel in the reverse direction to avoid damaging or dulling the cutting edges of the reel or bed knife.



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6. Slowly rotate the reel (D) backwards watching for contact between the reel and bed knife at the center of the bed knife. If contact is made, backlap the reel and bed knife to eliminate the "Frown" in the bed knife or the out-of-round condition of the reel.
7. Measure the clearance at the center of the bed knife. If the clearance exceeds 0.002 of an inch, backlap the reel

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